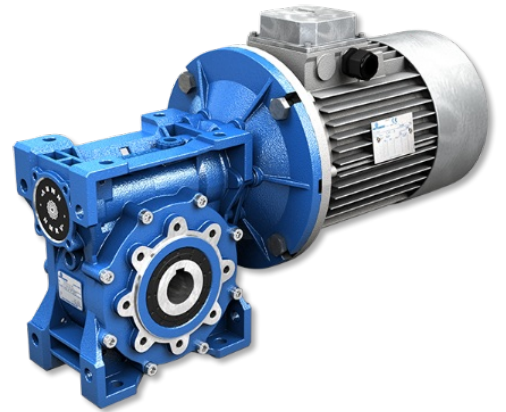


TECHNICAL CATALOGUE



WORM GEARED MOTORS

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Motovario® corporate philosophy aims to promote the company's brand and products at an international level with determination and transparency, while constantly striving to offer innovative solutions for satisfying and anticipating the demand of the market. Motovario® provides technologically advanced solutions in the transmission components field for industrial and civil applications worldwide.

The company

At Formigine, the heart of Modena's industrial district, Motovario® boasts a production plant spanning 50,000 m² that employs 500 people.

1965 Foundation of Motovario

1998 Acquisition of Spaggiari Trasmissioni an important brand in the mechanical technology sector.

2006 Motovario acquisition by a private investment fund managed by Synergo SGR, in order to guarantee its development and support its expansion throughout the world.

2014 Acquisition of Pujol.

2015 Acquisition by TECO.

At the core of Motovario® lies an evolved production process based on technological solutions that convert power into movement. Motovario® is at the heart of the production processes that drive industries worldwide. Quality and reliability are the company's fundamental assets. Motovario® is present throughout the world with branches in France, Spain, Germany, England, China, the United States and India. The sales network and customer service guarantee immediate and high-quality support to all customers. In addition, the company boasts a worldwide network of MAC

(Motovario Assembly Centre). Qualified assembly centres are present, in Italy, Australia, Benelux, Bulgaria, China, Finland, France, India, Ireland, Israel, Malaysia, Poland, Portugal, South Korea, Spain, Sweden, Turkey, United Kingdom, Ukraine and USA. The company is able to offer a wide range of products: speed variators, right-angle, helical-bevel, shaft-mounted, worm gear reducers and gearmotors, electric motors, inverter and inverter drives. Maximum quality and precision are ensured by the cutting-edge technologies implemented in the production process. 170 numerical control machines, served by LGV lines for storage in automatic warehouses, ensure a high standard of efficiency for the Motovario® production department.

The highly automated assembly lines are supported by a specific computerised system. The process statistical control system manages the production process to avoid rejects, by enabling the operator to monitor all the processing phases. The annealing, tempering, hardening and carburizing treatments are carried out inside the plant. The plant operates on a 24-hour basis, including holidays. Reliability, resilience and versatility are the distinctive features of Motovario® products, the most qualified solution to any power transmission requirement.

Main fields OF APPLICATIONS

- Mechanical-electromechanical industry (car washing, pumps, barriers & automatic doors, circuit breakers)
- Ceramic industry (ovens, press feeding systems)
- Food, farming, oenology industry
- Wood, marble, glass industry
- Packaging & bottling industry
- Textile, shoes, leather industry
- Transport, logistic industry
- Construction industry
- Milling, animal husbandry, flower industry
- Machine tools & steel industry
- Mining, quarry, cement industry
- Energy industry (solar, nuclear, biomass, wind)
- Amusement industry (theatres, leisure parks, kiddy rides)
- Chemical & pharmaceuticals industry
- Paper & printing industry
- Plastic & rubber industry
- Telecommunications industry (satellite orientation systems, military radar)
- Engineering and consultant companies

Certifications

Our products can be manufactured to conform with the ATEX Directive 2014/34/UE. In addition, the safety and quality of our motors, geared motors and motovariators is guaranteed by the EAC (EurAsian Conformity) certification, an essential requirement for products exported to the Russian Federation. Our motors are UL certified, which guarantees their safety and quality requirements for the North American market.

Quality CONCEPT

Motovario® has obtained the quality certification renewal of its production system in conformity to the UNI EN ISO 9001:2008 standard. This internationally recognised certification acknowledges the company's commitment and drive geared towards constantly improving products, projects and services offered. Moreover, the company has obtained the OHSAS 18001:1999 (Occupational Health and Safety Assessment Series) certification, which defines the requirements of the workplace safety and health management system.

Research & DEVELOPMENT

Technological innovation: a crucial factor for competing in the market. In the company's 50-year history, research and change have been the pivotal factors in guaranteeing competitiveness at a global level, thanks to increasingly advanced products in terms of performance and reliability. Each year the company invests an increasing amount of its turnover in research and development, geared towards promoting the constant study and analysis of products, control processes and performance certification. In order to ensure that customers receive products that comply with the requested performance levels, the company carries out simulations on all new products, including NVH (Noise, Vibration, Harshness) tests effected in the advanced semi-anechoic chamber.

Customer CARE

Innovative instruments and software applications supporting the technical and logistic requirements of our partners worldwide guarantee a timely and customised service. The experience acquired by Motovario® has led to the creation of the new online portal MyMotovario 4.0, which allows for selecting products and exporting their 3D file. As a result, designers and engineering departments can download the three-dimensional model of the requested product and implement it directly in their own layout. In order to maximise customer service and quality, Motovario® offers all its customers the following online services: Order Tracking, which allows for monitoring the progress of an order in real time, and the Stock Availability service, through which users may check the availability (stock) of our products, both in the Italian plant and in the various branches.

Motovario chooses technological evolution.

Motovario® has chosen technological evolution and actively collaborates with the Faculty of Engineering of the University of Modena and Reggio Emilia and of the University of Bologna.

Reliability, sturdiness, versatility

These are the distinctive traits of Motovario products. A broad range of transmission products that provide a competent, innovative solution to each and every power application need. Cutting-edge tools, unrelenting research efforts and ongoing commitment to upgrading manufacturing equipment to the latest state-of-the-art enable us to offer high quality and performance standards to cater to industry requirements and the broadest variety of applications. Motovario ranks among the leading, well-reputed companies in Italy engaged in the design, manufacture and sales of transmission products for industrial and civil applications. The entire manufacturing process takes place in Formigine and Ubersetto plants, in Modena area, with an overall surface area of over 50.000 sq m. and a workforce of about 500 people. 170 numerically controlled machines and cutting-edge handling, storage and assembly automated systems ensure that all products meet high quality standards. The network includes more than 40 Motovario-certified assembly centres, with the capability to supply products in a broad range of versions, including customised versions, high service capacity and fast response. As a result, our product offering can cater to the needs of all plant engineering sectors, in all industries and for different applications, and includes: speed variators, helical, bevel-helical, parallel helical, worm gear reducers and gearmotors, electric motors and motor-inverters. All of the products we manufacture share such common features as reliability, sturdiness and versatility, topped with a high innovation content. At the heart of a company's technological innovation is the ability to develop integrated tools for computer-aided calculation simulation and management of different processes as part of product development. When simulating operating, setup and process conditions, it is also necessary to analyse and optimize the overall functional design of a product using a synergistic approach. This is achieved by implementing an exhaustive experimental plan, without using interpolation or approximation, as they frequently allow criticalities or any oversizing which is not conducive to maximising quality/cost ratio to go unnoticed.

High-efficiency method for calculation according to standards

A set of specific functions have been developed to this end. A few significant examples include functions to:

- Optimise individual reduction ratios and the combinations of the different reduction stages based on parametrisable target normal series;
- Calculate torque values and maximum permissible external forces for gear reducer units, using iterative numeric algorithms to confirm target life/safety values of components;
- Create databases for loading a FEM structural analysis model by automatically writing all reaction components of bearings under all load conditions to a specific file, with automatic selection of critical cases that need to be verified.

Another goal of the method is to create synergy between calculation according to standards and FEM structural calculation and the implementation of FEM model loading procedures, so as to simplify input data, meshing and constraint criteria

Competitiveness and operational benefits of the new method

This method offers many practical advantages over traditional calculation procedures within the company, namely:

- Iterative optimisation of project since setup stage;
- Accurate assessment of the various service factors and reliability levels for the entire gear reducer unit and for all operating conditions as per catalogue rating or customer specific requirements;
- Faster support to customers in analysing tailored product configurations;
- Integrated corporate databases that can be updated in real-time.

Range extension and ongoing evolution

The steady, significant growth of Motovario Group is achieved thanks to an ongoing search for new calculation and design tools, as well as to customer service. The new tools identified have led to innovation, improved product reliability as well as positive developments in market management. The following software products are used for design, calculation and management:

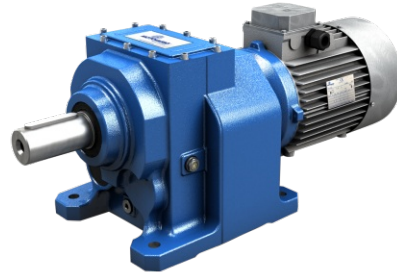
- Solidworks;
- Kisoft;
- Kissys;
- Ansys;
- FEM modelling analysis software;
- Circuit design and simulation software;
- Specific spreadsheets;
- SAP.

In MyMotovario 4.0 portal, PRODUCT SELECTION includes a section named APPLICATIONS where customers can enter application data and find out which gear reducer suits them best in a matter of minutes.

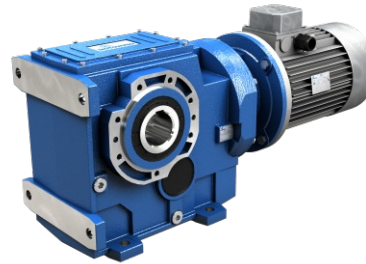
MOTOVARIO Products

HELICAL GEAR REDUCERS

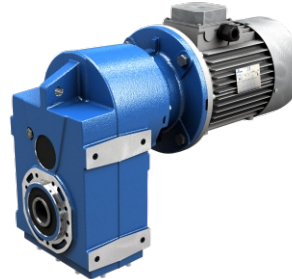
Cast iron or aluminum casing
 Output shaft up to 90 mm
 Mn₂ up to 70806 in-lb
 Reduction stages 1, 2, 3
 Ratios up to 282
 Atex units

**HELICAL BEVEL GEAR REDUCERS**

Cast iron or aluminum casing
 Output shaft up to 110 mm
 Mn₂ up to 115059 in-lb
 Reduction stages 2, 3
 Ratios up to 443
 Atex units

**SHAFT MOUNTED GEAR REDUCERS**

Cast iron
 Output shaft up to 90 mm
 Mn₂ up to 84402 in-lb
 Reduction stages 2, 3
 Ratios up to 395
 Atex units

**WORM GEAR REDUCERS**

Cast iron or aluminum casing
 Output shaft up to 50 mm
 Mn₂ up to 23631 in-lb
 Ratios up to 1083
 Atex units

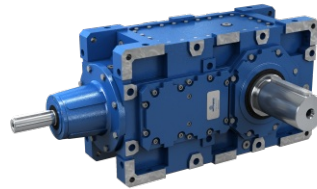
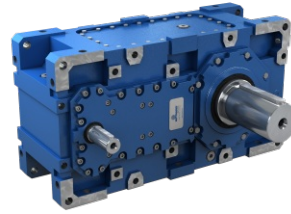


PLANETARY GEARED UNITS

Cast iron
 Output shaft up to 80 mm
 Mn₂ up to 88507 in-lb
 Reduction stages 1, 2, 3, 4
 Ratios up to 2700

**PARALLEL HELICAL AND BEVEL HELICAL GEAR REDUCERS FOR MIDDLE HEAVY INDUSTRY**

Cast iron casing
 Output shaft up to 180 mm
 Mn₂ up to 973582 in-lb
 Reduction stages 2, 3, 4
 Ratios up to 431
 Atex units

**MOTOVARIATORS AND MOTOVARIATOR-GEAR REDUCERS**

Cast iron or aluminum casing
 Mn₂ up to 44254 in-lb
 Atex units

**ELECTRIC MOTORS**

Power ratings up to 121 HP
 Poles 2, 4, 6
 Three-phase and single-phase, built-in
 brake, dual polarity
 Protection class up to IP66



DRIVES**DRIVON - motoinverter**

Three phase and single phase power supply
High dynamics sensorless vectorial control
Power ratings up to 7,5 HP
Standard integrated STO
Integrated field bus
Optional field bus



1.3.1 Symbols

| Physical dimension | Symbol | Symbol units of measure | Input | Output |
|------------------------------------|-----------------------|-------------------------|-----------------|-----------------|
| Power | P | [HP] | P ₁ | P ₂ |
| Requested power | Pr | [HP] | Pr ₁ | Pr ₂ |
| Nominal power | Pn | [HP] | Pn ₁ | Pn ₂ |
| Torque | M | [in-lb] | M ₁ | M ₂ |
| Nominal torque | Mn | [in-lb] | / | Mn ₂ |
| Requested torque | Mr | [in-lb] | Mr ₁ | Mr ₂ |
| Speed | n | [rpm] | n ₁ | n ₂ |
| Load | F | [lb] | / | / |
| Radial load | Fr | [lb] | Fr ₁ | Fr ₂ |
| Radial axial | Fa | [lb] | Fa ₁ | Fa ₂ |
| Reduction ratio | i | [] | / | / |
| Dynamic efficiency | η _d | [] | / | / |
| Speed | ips | [inch/second] | / | / |
| Service factor | f.s. | [] | / | / |
| Static | s | [] | / | / |
| Dynamic | d | [] | / | / |
| Calculated | c | [] | / | / |
| Maximum | max | [] | / | / |
| Minimum | min | [] | / | / |
| Moment of inertia | J | [lb*in ²] | J ₁ | J ₂ |
| Ambient temperature | T _{amb} | [°F] | / | / |
| Dimensions | | [inch] | / | / |
| Number of screw threads | Z1 | [] | / | / |
| Lead angle | Υ | [° ' ''] | / | / |
| Axial module | Mx | [] | / | / |
| Dynamic efficiency of n1= 1400 rpm | η _δ (1400) | [] | / | / |
| Static efficiency | η _s | [] | / | / |

1.3.2 Formulas

| REDUCER | | |
|---|--|-----------------------|
| Starting or stopping time | $t = v / a$ | [s] |
| Velocity in rotary motion | $v = \pi * d * n / 60$ $v = \omega * r$ | [ft/s] |
| Speed velocity Angular velocity | $n = 60 * v / (\pi * d)$ $\omega = v / r$ | [rpm] [rad/s] |
| Acceleration or deceleration according to a starting / stopping time | $a = v / t$ | [ft/s ²] |
| Angular acceleration | $\alpha = n / (9,55 * t)$ $\alpha = \omega / t$ | [rad/s ²] |
| Starting or stopping distance (according to acceleration / deceleration or angular velocity) | $s = a * t^2 / 2$ $s = v * t / 2$ | [ft] |
| Horizontal translation force | $F = \mu * m * g$ | [lbf] |
| Vertical translation force (lifting) | $F = m * g$ | |
| Inclined plane translation force | $F = m * g (\mu * \cos\beta + \sin\beta)$ | |
| m= mass [kg]; g= gravity acceleration [m/s ²]; μ = friction coefficient; β = angle of inclination | | |
| Moment of inertia | $J = m * v^2 / \omega^2$ | [lb ft ²] |
| Torque | $M = F * d / 2$ $M = J * \omega / t$ | [in-lb] |

| MOTOR and GEARMOTOR | | |
|--|---|-------|
| Starting time | $t_a = (J_{ext} + J_m) * n_n / 9,55 + (M_{peak} - M_r)$ | [s] |
| Braking time | $t_s = (J_{ext} + J_m) * n_n / 9,55 + (M_{peak} + M_r)$ | [s] |
| Motor rotation angle during starting | $\varphi = n_n * t_a / 19,1$ | [rad] |
| Motor rotation angle during braking | $\varphi = n_n * t_s / 19,1$ | [rad] |
| Power available at the shaft of single phase motor | $P = V * I * \eta * \cos\omega$ | [W] |
| Power available at the shaft of three phase motor | $P = 1,73 * V * I * \eta * \cos\omega$ | [W] |

| RUNNING at 60Hz | | |
|--|---|---------|
| Speed velocity at 60Hz | $n_{60Hz} = 1,2 * n_{50Hz}$ | [rpm] |
| Power at 60Hz | $P_{1\ 60Hz} = P_{1\ 50Hz} * \sqrt{V_{60Hz} / V_{50Hz}}$ | [kW] |
| If input voltage at 60 Hz (V_{60Hz}) corresponds to winding voltage at 50 Hz (V_{50Hz}), power doesn't change $P_{1\ 60Hz} = P_{1\ 50Hz}$ | | |
| If input voltage at 60 Hz (V_{60Hz}) is 20% higher than winding voltage at 50 Hz (V_{50Hz}), power increases by 20% $P_{1\ 60Hz} = 1,2 P_{1\ 50Hz}$ | | |
| Torque at 60Hz | $M_{60Hz} = M_{50Hz} * P_{1\ 60Hz} / (1,2 * P_{1\ 50Hz})$ | [in-lb] |
| Service factor at 60Hz | $f.s_{60Hz} = f.s_{50Hz} * 1,175 * P_{1\ 50Hz} / P_{1\ 60Hz}$ | - |

| UNIT CONVERSION TABLE | | | | |
|-----------------------|-------------------------------------|--|---|-------------------------------------|
| Description | Imperial units | International System of Units (SI) | Technical System (metric) | |
| Lenght, Distance | 1 inch 1 foot | [in] = 0.0254 [ft] = 0.3048 | meter | [m] |
| Mass | 1 pound 1 ounce | [lb] = 0.4536 [oz] = 0.0283 | kilogram | [kg] |
| Volume | US liquid gallon | [gal] = 3.7854 | liter | [l] |
| Temperature | Fahrenheit degree | [°F] = 1.8 * °C + 32 | Celsius degree | [°C] |
| Force | 1 pound-force | [lb _(f)] = 4.4482 | newton | [N] |
| | | [lb _(f)] = 0.4536 | kilogram force | [kg _(f)] |
| Power | 1 horse power | [hp] = 0.7457 | kilowatt | [kW] |
| Torque, Work | 1 pound-force inch | [lb _(f) in] = 0.1130 | newton meter, joule kilogram-force meter | [N m], [J] [kg _(f) m] |
| | | [lb _(f) in] = 0.0115 | | |
| | 1 pound-force foot | [lb _(f) ft] = 1.3560 [lb _(f) ft] = 0.1383 | | |
| Pressure | 1 pound-force per square inch (psi) | [lb _(f) /in ²] = 0.0689 | bar | [bar] |
| Moment of inertia | 1 WK ² | [lb _(f) ft ²] = 0.0421 | kilogram square-meter | [kg m ²] |

For correctly selecting a gear reducer or geared motor, several essential pieces of data are required:

1. The rotational input speed to the gear reducer (n_1) and the rotational output speed (n_2). Through these two values it is possible to calculate the reduction ratio (i) of the gear reducer using the following formula: $i=n_1/n_2$
2. The torque required by the application (Mr_2).

The geared motor or gear reducer can be selected once this data is known.

This guide helps you to select the right product in just a few steps:

Geared motor selection

1. Determine the application's actual service factor (**s.f.**). This parameter depends on the type of load of the powered machine, the number of starts per hour and the hours of operation (refer to the "Service factor" paragraph).
2. Calculate the input power Pr_1 using the required torque value Mr_2 , the speed n_2 and dynamic efficiency value. $Pr_1=(Mr_2*n_2)/(\mu_d*63.025)$. The dynamic efficiency value depends on the type of gear reducer and on the number of gear reduction stages. (To calculate the efficiency value see its page).
3. Consult the geared motor performance tables and identify a nominal power value Pn_1 exceeding the required power Pr_1 , such that: $Pn_1 \geq Pr_1$
4. Once the suitable nominal power has been identified, select the geared motor capable of generating the rotational speed closest to the desired n_2 value and with service factor s.f. greater or equal to that required by the application.

In the geared motor selection tables the combinations include 2-pole, 4-pole and 6-pole motors powered at 50Hz.

Gear reducer selection

1. Determine the application's service factor (**s.f.**) (consult to the "Service factor" paragraph on its page).
2. Calculate the reduction ratio i from the requested output speed n_2 and from the input speed n_1 . $i=n_1/n_2$
3. Calculate the torque Mc_2 for selecting the gear reducer through the torque required by the application Mr_2 and the service factor s.f.: $Mc_2=Mr_2*(f.s.)$
4. Consult the Gear Reducer Performance tables looking for the reducer that, with the reduction ratio closer to the calculated one, has a nominal torque Mn_2 so that: $Mn_2 \geq Mc_2$

Checks

Once the gear reducer or geared motor has been selected, the following checks should be performed:

1. Maximum torque

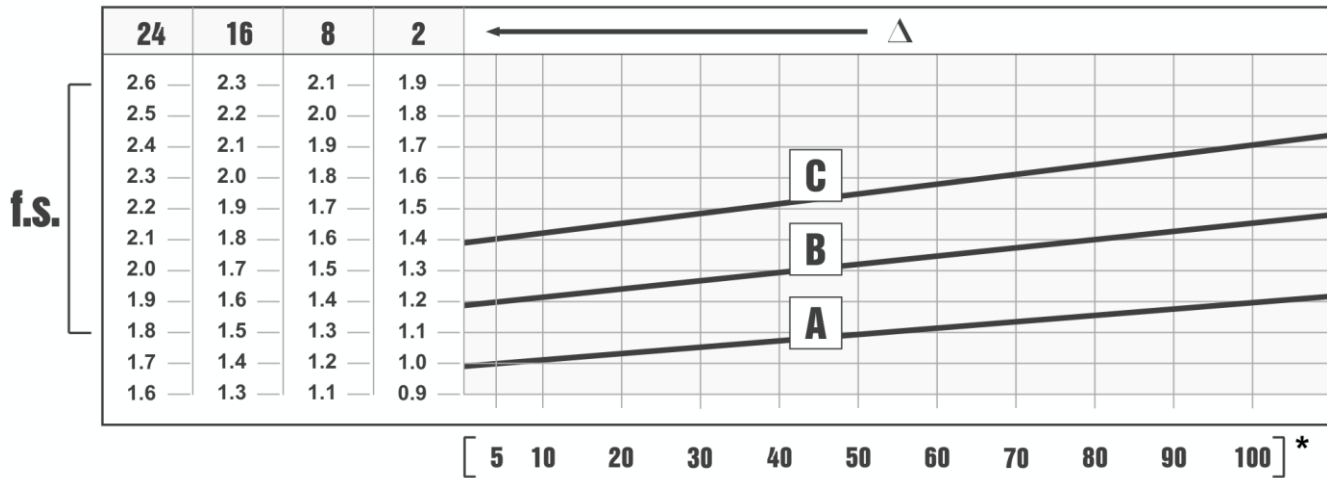
Generally, the maximum torque (peak instantaneous load) that can be applied to the gear reducer must not exceed 200% of the nominal torque Mn_2 (ATEX - M_{2max}).

2. Radial loads

1. Verify that the radial loads acting on the input and/or output shafts are within with the values indicated in the catalogue. If they exceed these values, increase the size of the gear reducer or modify the external load capacity. During the checking phase, it is important to remember that the values indicated in the catalogue refer to loads acting on the mid-point of the shaft protrusion, therefore, if the load is applied to a different position, appropriate formulas must be used to calculate the admissible load in the desired position (refer to the "Radial loads" paragraph).

2. If accessory output shafts are present, make sure that the applied load is compatible with shaft size. If help is needed: contact MOTOVARIO TECHNICAL SERVICE.

3. If an electric motor is going to be fitted to the selected gear reducer, check for its applicability by referring to the configuration table (see paragraph "Motor flange availability"). From IEC 180 motors, verify if necessary to support the motor with feet. In case of need please contact MOTOVARIO TECHNICAL SERVICE.



The service factor (f.s.) depends on the operating conditions the gear reducer is subjected to. The parameters that need to be taken into consideration to select the most adequate service factor correctly comprise:

- type of load of the operated machine : A - B - C
- length of daily operating time: hours/day (Δ)
- start-up frequency: starts/hour (*)

LOAD:

- **A** - uniform = $f_a \leq 0,3$
- **B** - moderate shocks = $f_a \leq 3$
- **C** - heavy shocks = $f_a \leq 10$

$f_a = J_e/J_m$

- J_e [lb-in²] moment of reduced external inertia at the drive-shaft
- J_m [lb-in²] moment of inertia of motor

If $f_a > 10$ call MOTOVARIO TECHNICAL SERVICE.

In the case of a variable speed reducer, once determined the service factor of the application it is necessary to compare this value with the safety factor of the S reducer reported in the selection tables, verifying $S \geq f.s.$ condition. The maximum number of admissible starts depends on the type of application. Approximately, the figure must not exceed 5-10 for minute. Contact MOTOVARIO TECHNICAL SERVICE if you have any special requirements.

- Screw feeders for light materials, fans, assembly lines, conveyor belts for light materials, small mixers, lifts, cleaning machines, fillers, control machines.
- Winding devices, woodworking machine feeders, goods lifts, balancers, threading machines, medium mixers, conveyor belts for heavy materials, winches, sliding doors, fertilizer scrapers, packing machines, concrete mixers, crane mechanisms, milling cutters, folding machines, gear pumps.
- Mixers for heavy materials, shears, presses, centrifuges, rotating supports, winches and lifts for heavy materials, grinding lathes, stone mills, bucket elevators, drilling machines, hammer mills, cam presses, folding machines, turntables, tumbling barrels, vibrators, shredders.

To install the gear reducer it is necessary to note the following recommendations:

- Check the correct direction of rotation of the gear reducer output shaft before fitting the unit to the machine.
- In the case of particularly lengthy periods of storage (4/6 months), if the oil seal is not immersed in the lubricant inside the unit, it is recommended to change it since the rubber could stick to the shaft or may even have lost the elasticity it needs to function properly.
- Whenever possible, protect the gear reducer against solar radiation and bad weather.
- Ensure the motor cools correctly by ensuring good passage of air from the fan side.
- In the case of ambient temperatures < 23°F or > 104°F call MOTOVARIO TECHNICAL SERVICE.
- The various parts (pulleys, gear wheels, couplings, shafts, etc.) must be mounted on the solid or hollow shafts using special threaded holes or other systems that anyhow ensure correct operation without risking damage to the bearings or external parts of the units. Lubricate the surfaces in contact to avoid seizure or oxidation.
- Painting must definitely not go over rubber parts and the holes on the breather plugs, if any.
- For units equipped with oil plugs, replace the closed plug used for shipping with the special breather plug.
- Check the correct level of the lubricant through the indicator, if there is one.
- Starting must take place gradually, without immediately applying the maximum load.
- When there are parts, objects or materials under the motor drive that can be damaged by even limited spillage of oil, special protection should be fitted.

Please note: in the event of a cover with adhesive label having to be replaced, you will have to stick a new label onto the new cover. Please contact Motovario and we can supply you with one.

Motovario products are supplied with the following surface treatment features:

Die-cast aluminium alloy cases for gears (sizes 025-110)

Die-cast materials undergo the following surface cleaning operations:

- De-burring by means of a mechanically operated shearing system.
- Accurate shot-peening.
- Painting.
- Washing and passivation.

Grey-coloured cast-iron cases for gears (sizes 130-150)

- Die-cast materials are always painted.

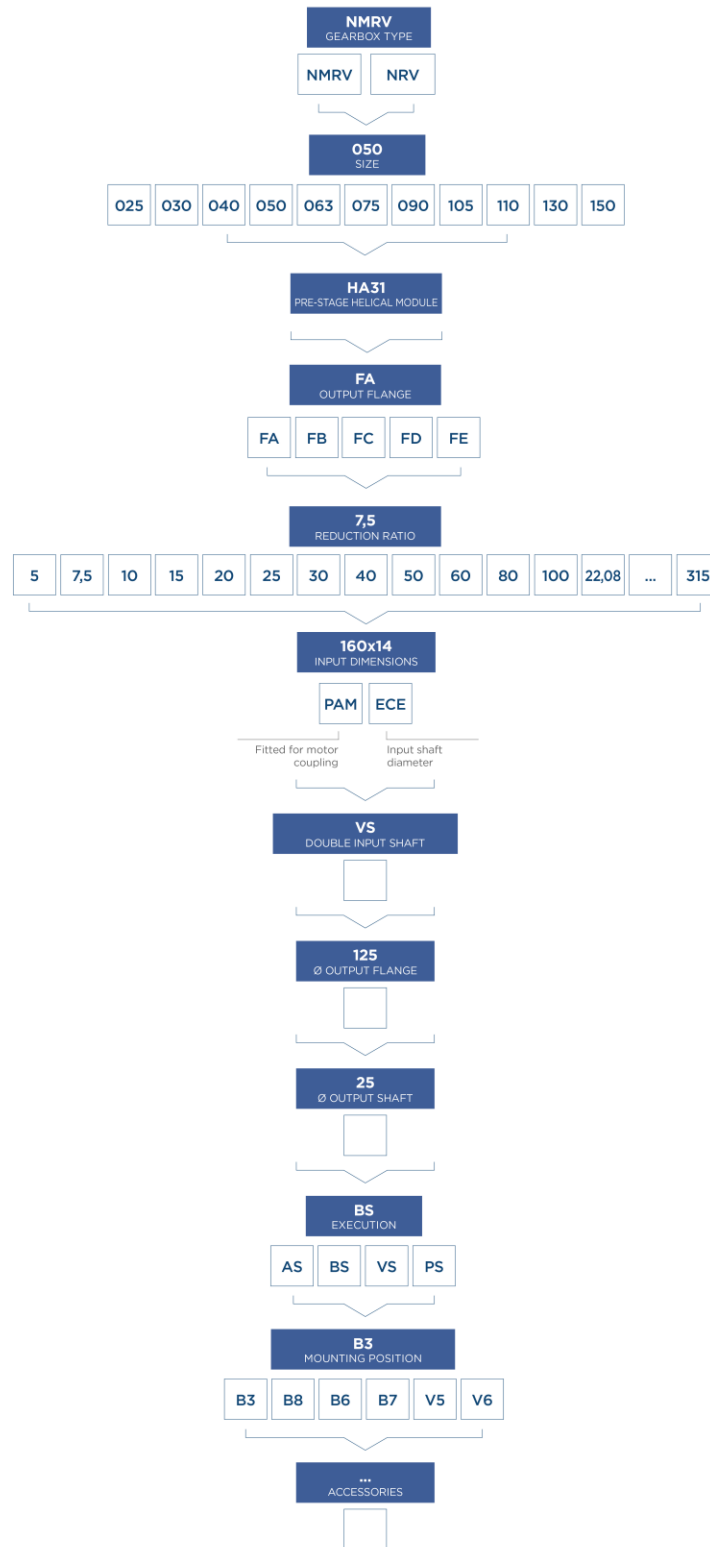
Painting specifications:

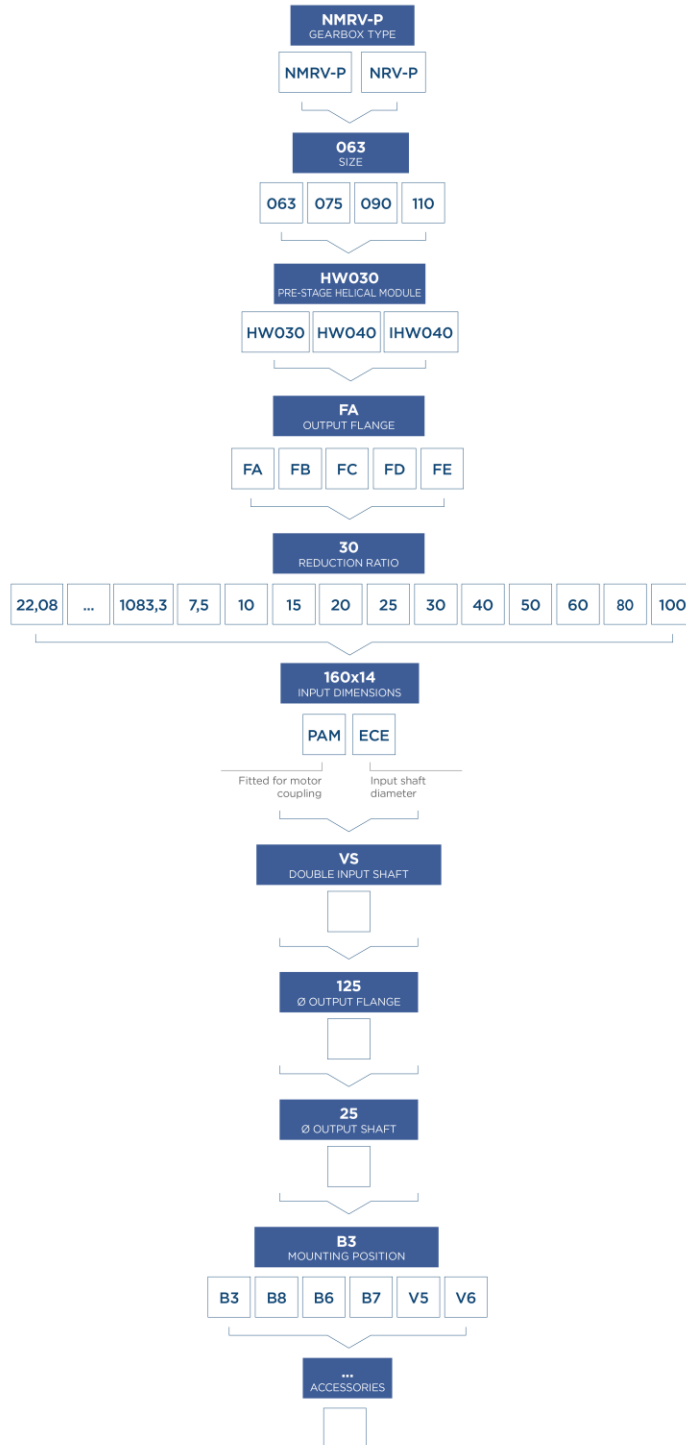
- Orange-peel blue epoxy-polyester RAL 5010. Polyester resin based heat-hardening powders, altered with epoxy resins.
Mechanical properties: Tests carried out onto degreased Unichim white lattens film thickness: 2.5 mils comply with the following specifications: adherence (ISO2409).
Heat resistance: 24 HOURS AT 302°F.
Corrosion strength: ASTM B 117/97 salt fog from 100 to 500 hours depending on the support's preliminary treatment.

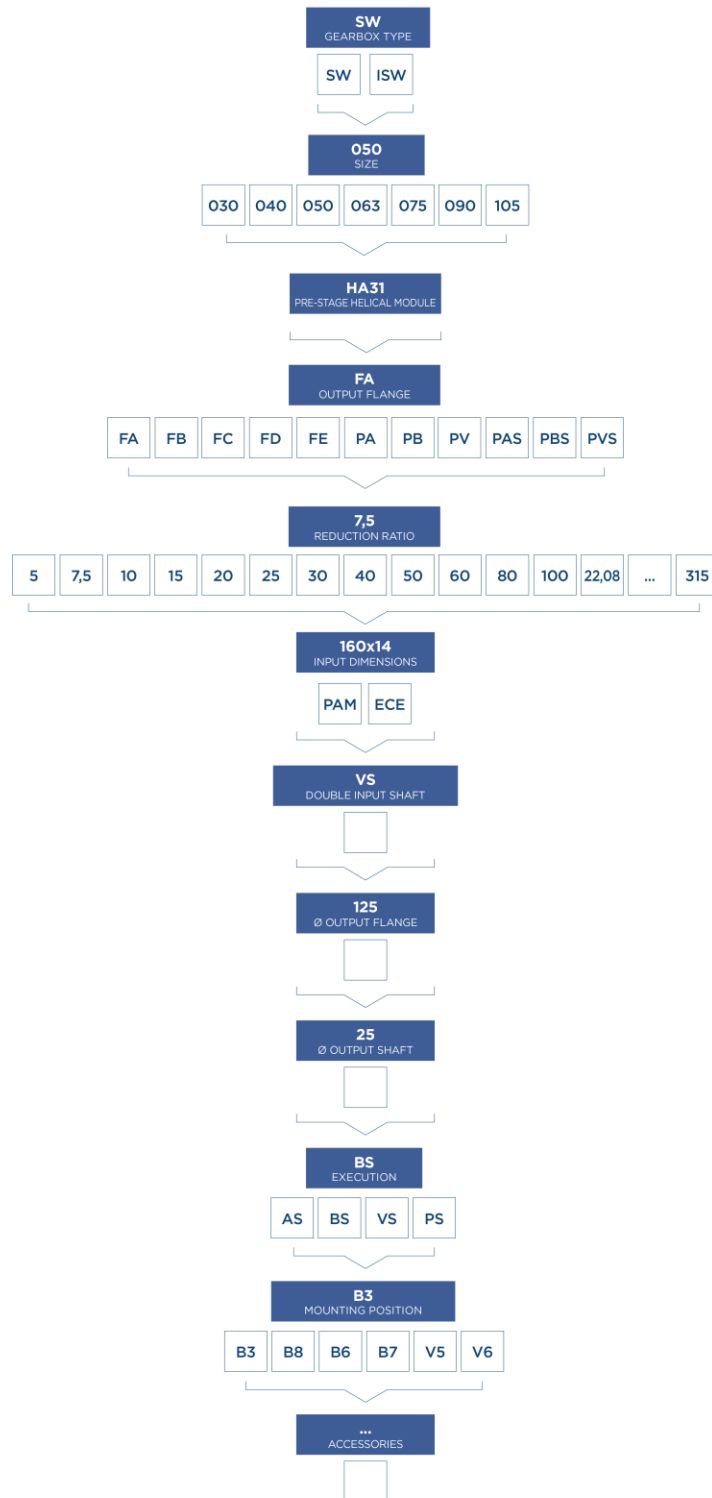
Performance:

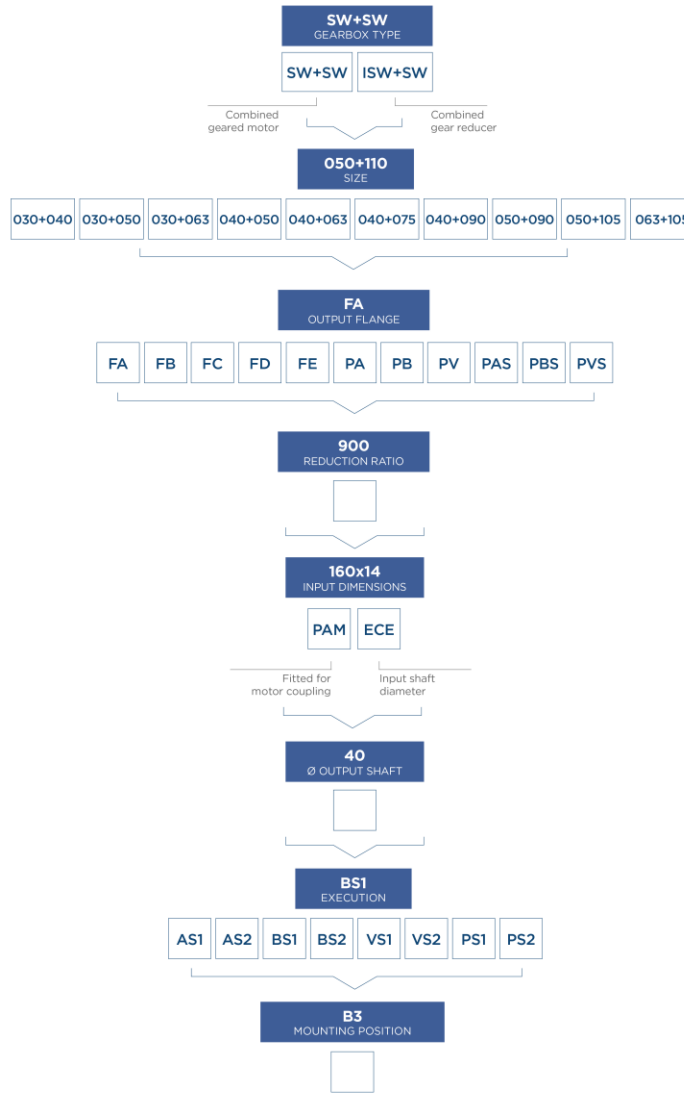
- Loading capacity in accordance with: ISO 14521, DIN 3996, BS 721, AGMA 6034, ISO 6336, DIN 3990, DIN 743, ISO 281.

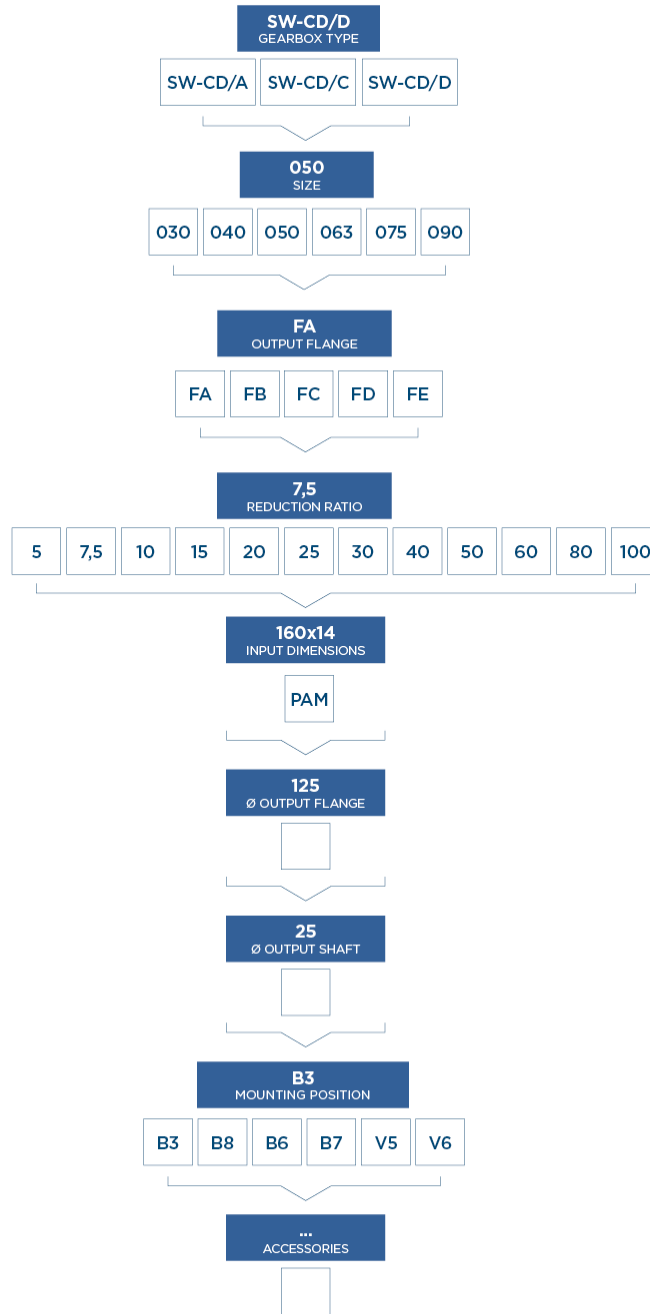
2.2.1 Designation







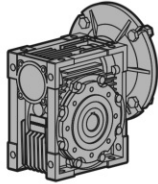




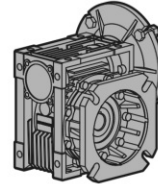
2.2.2 Versions

NMRV

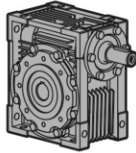
NMRV 025-050 / NMRV 130-150



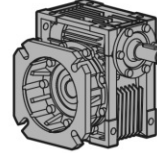
NMRV 025-050 F / NMRV 130-150 F



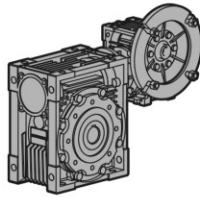
NRV 030-050 / NRV 130-150



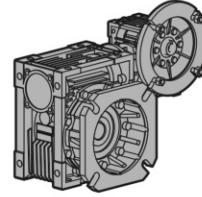
NRV 030-050 F / NRV 130-150 F



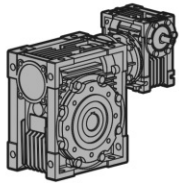
NMRV-NMRV...



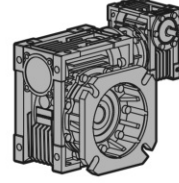
NRV-NMRV... F



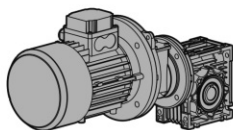
NRV-NMRV...



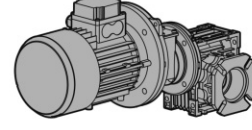
NRV-NMRV... F



HA31+NMRV...



HA31+NMRV... F

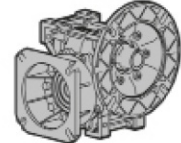


NMRVpower

NMRVpower 063-110



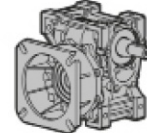
NMRVpower 063-110 F



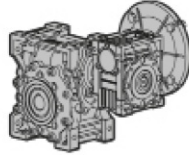
NRVpower 063-110



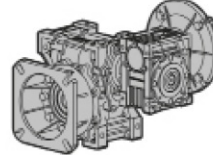
NRVpower 063-110 F



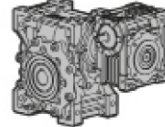
**NMRV-NMRVpower...
NMRVpower-NMRV...
NMRVpower-NMRVpower...**



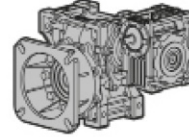
**NMRV-NMRVpower... F
NMRVpower-NMRV... F
NMRVpower-NMRVpower... F**



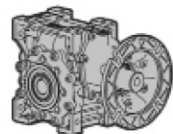
**NRV-NMRVpower...
NRVpower-NMRV...
NRVpower-NRVpower...**



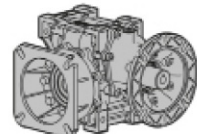
**NRV-NMRVpower... F
NRVpower-NRV... F
NRVpower-NRVpower...F**



NMRVpower/HW...

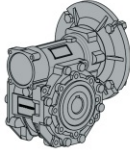


NMRVpower/HW... F

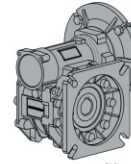


SW

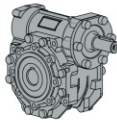
SW 030-105



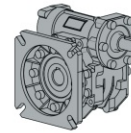
SW 030-105 F



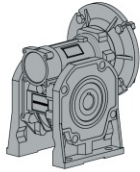
ISW 030-105



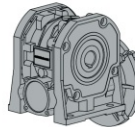
ISW 030-105 F



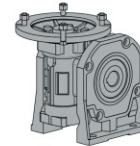
SW 030-105 PA/PAS



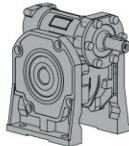
SW 030-105 PB/PBS



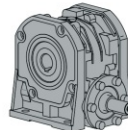
SW 030-105 PV/PVS



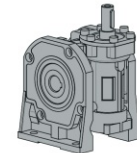
ISW 030-105 PA/PAS



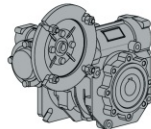
ISW 030-105 PB/PBS



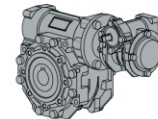
ISW 030-105 PV/PVS



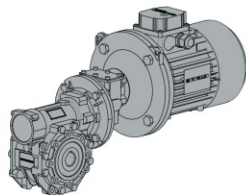
**SW-SW
SW-SW...F
SW-SW...PA/PAS**



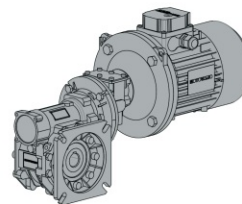
**ISW-SW
ISW-SW...F
ISW-SW...PA/PAS**



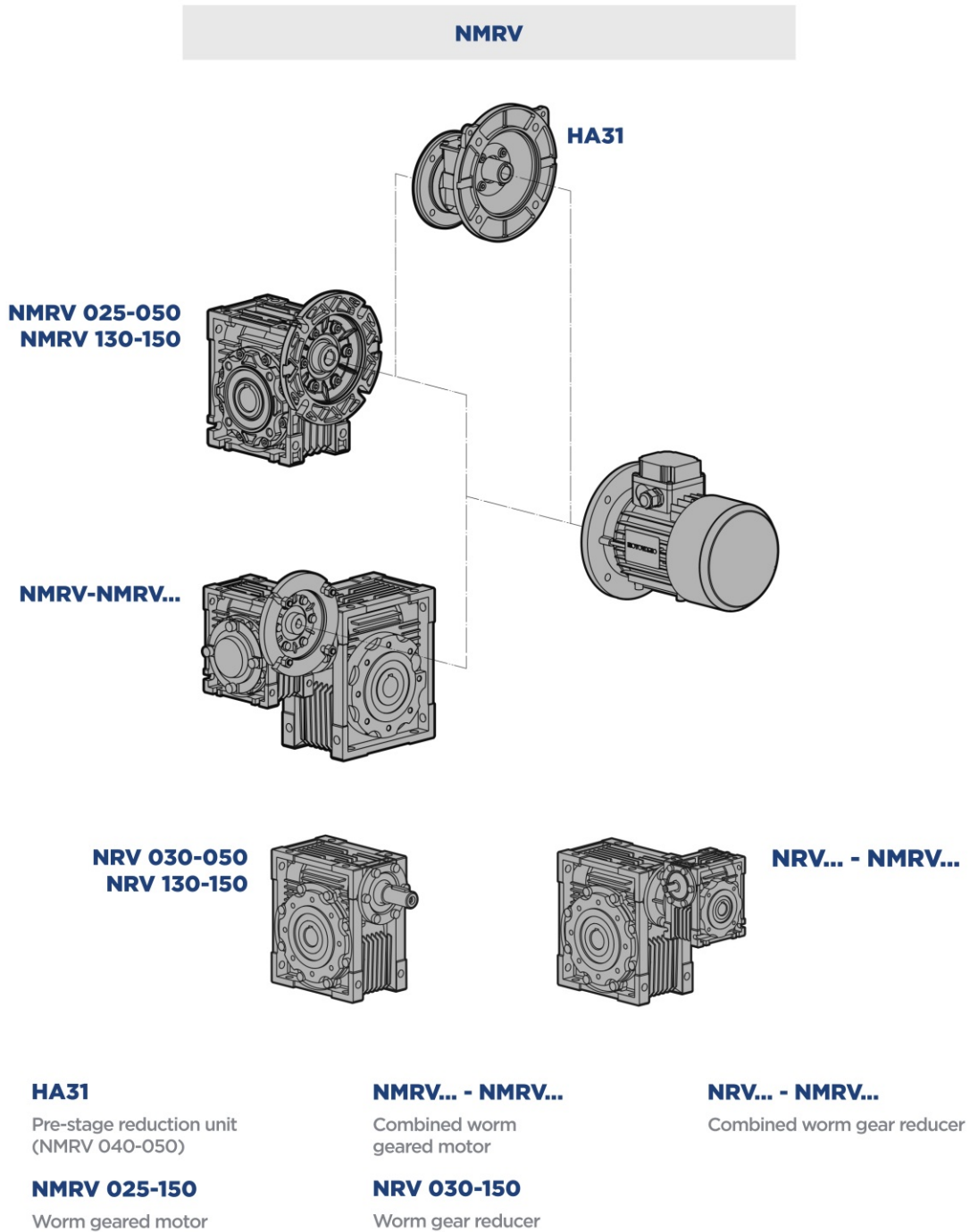
HA31-SW | HA31-SW..PA/PAS



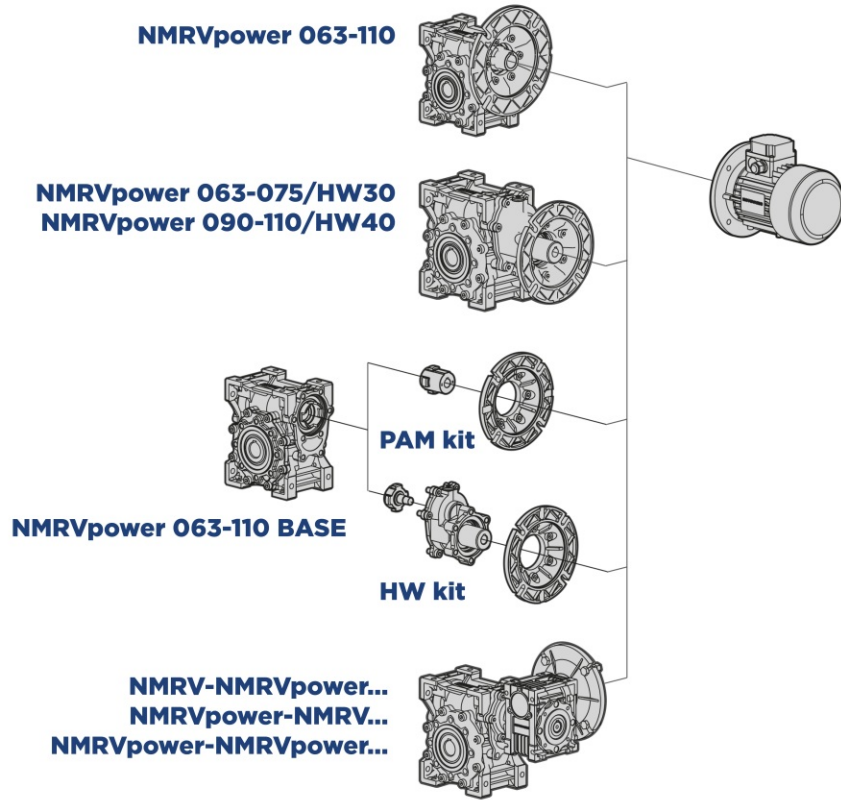
HA31-SW...F



2.2.3 Modularity



NMRVpower



NMRVpower 063-110

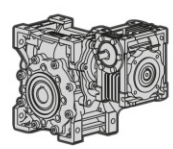
Worm geared motor

NMRVpower/HW

Worm geared motor with pre-stage

NMRV-NMRVpower...

Combined worm geared motor



NRV-NMRVpower...

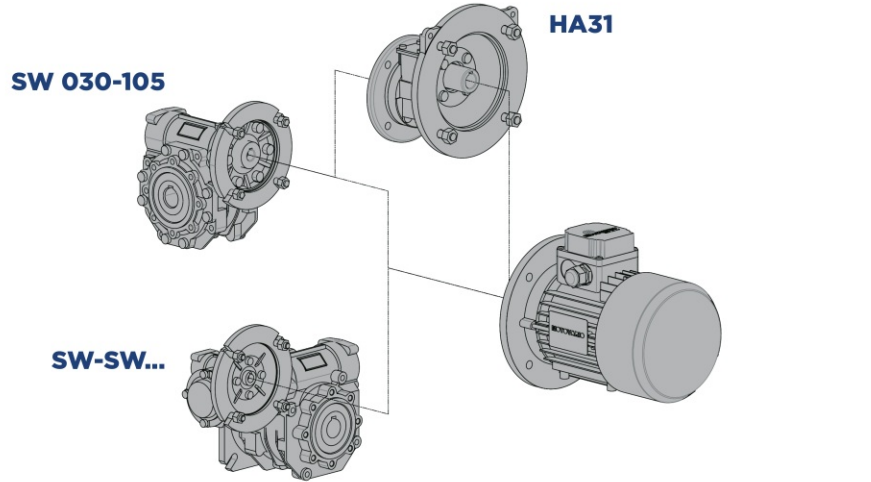
NRVpower 063-110

Worm gear reducer

NRV-NMRVpower...

Combined worm gear reducer

SW



SW 030-105

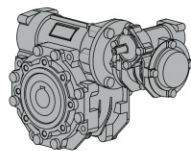
Worm geared motor

SW-SW...

Combined worm geared motor

HA31

Pre-stage reduction unit



ISW-SW...

ISW 030-105

Worm gear reducer

ISW-SW...

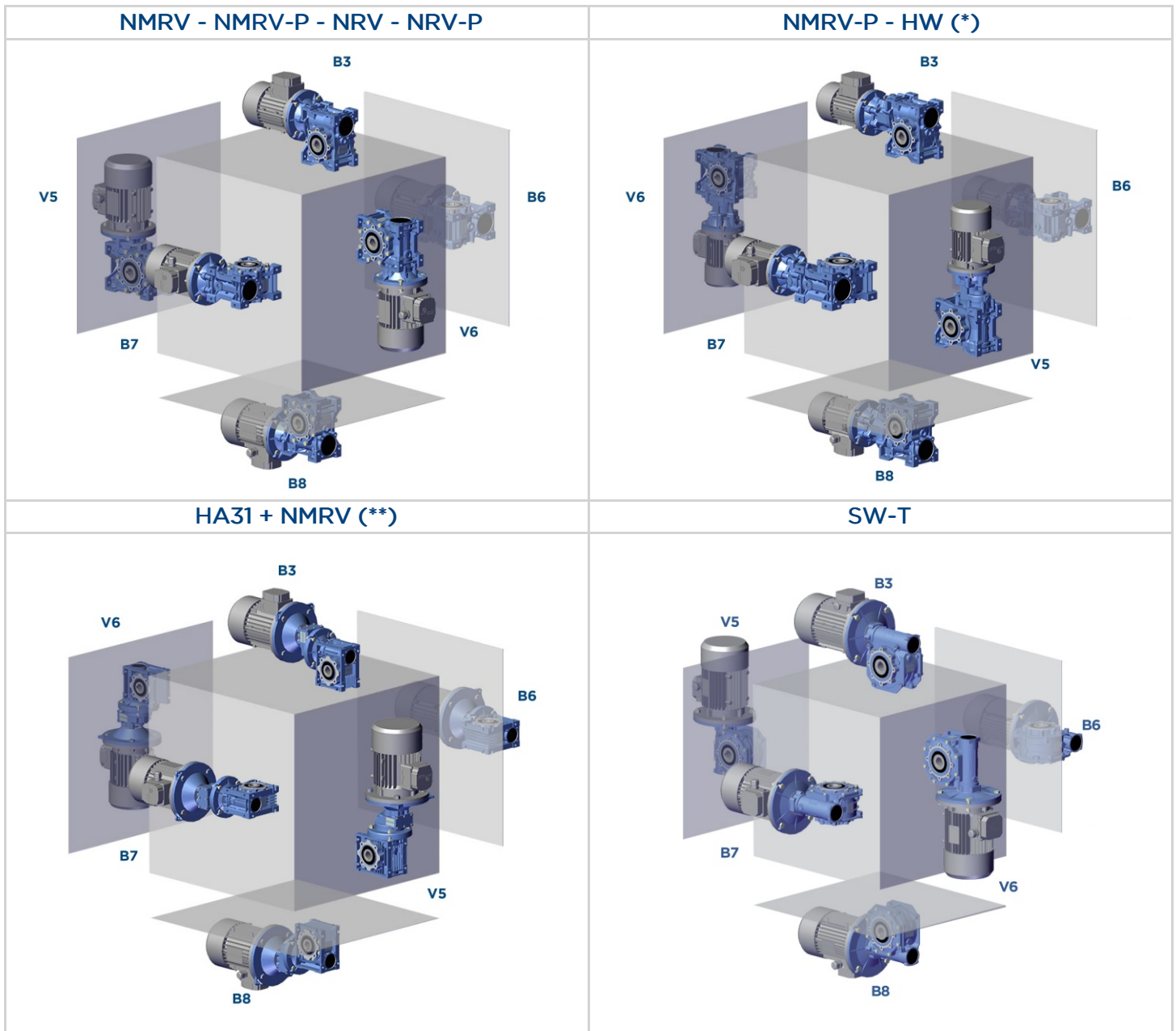
Combined worm gear reducer

2.3.1 Mounting positions

The mounting position of the gear unit identifies its space orientation. Unless specified otherwise, the standard positions are B3/BS. B3 mounting position, as from a technical point of view, ensures lower oil splash, better lubrication and less heating. For positions not envisaged, it is necessary to call our Technical Service. "U" version is related to sizes from NMRV/NMRV-P/SW 025-075 and NRV/NRV-P/ISW 030-063. For these sizes it is not necessary to specify mounting position. For NMRV/SW 090-105-110 mounting position B3 is valid also for B6-B7-B8. Mounting positions V5 and V6 must be specified. For NMRV 130-150 mounting positions B3-B6-B7-B8-V5-V6 must be specified.

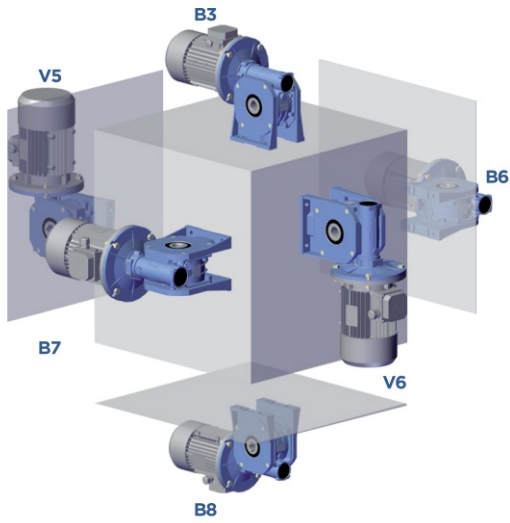
(*NMRV-P - HW) Execution only in BS. For NMRV-P/HW mounting position B3 is valid also for B6-B7-B8. Mounting position V5-V6 must be specified.

(**HA31+NMRV/SW) The mounting position is U and it is valid for all mounting positions.

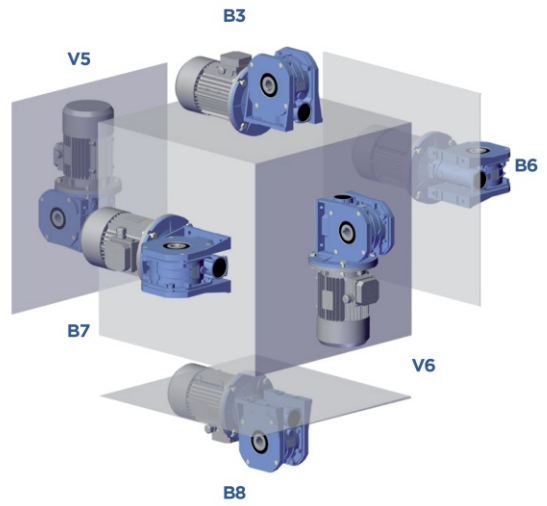


2.3 MOUNTING POSITIONS

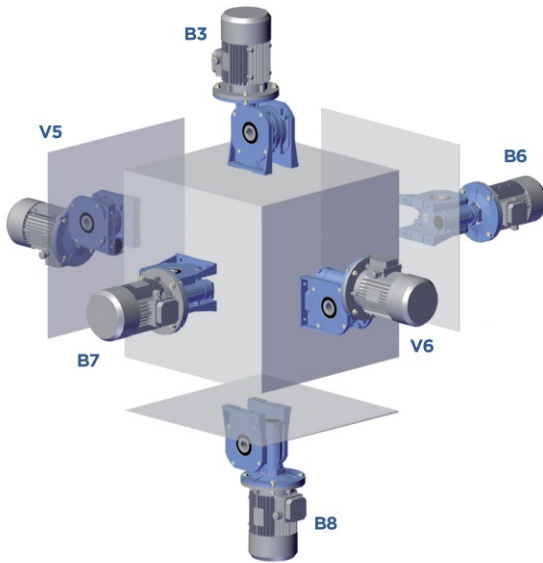
SW-PA/PAS



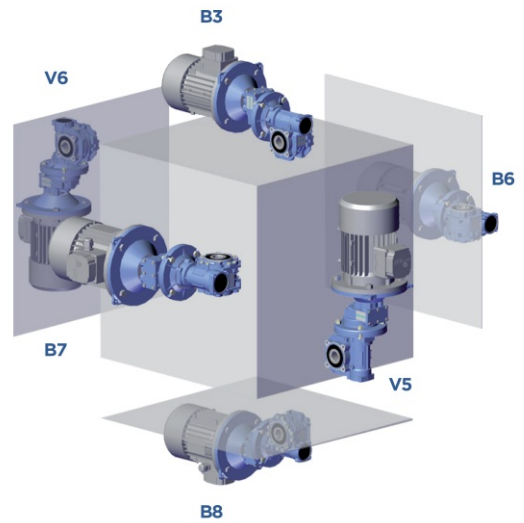
SW-PB/PBS



SW-PV/PVS

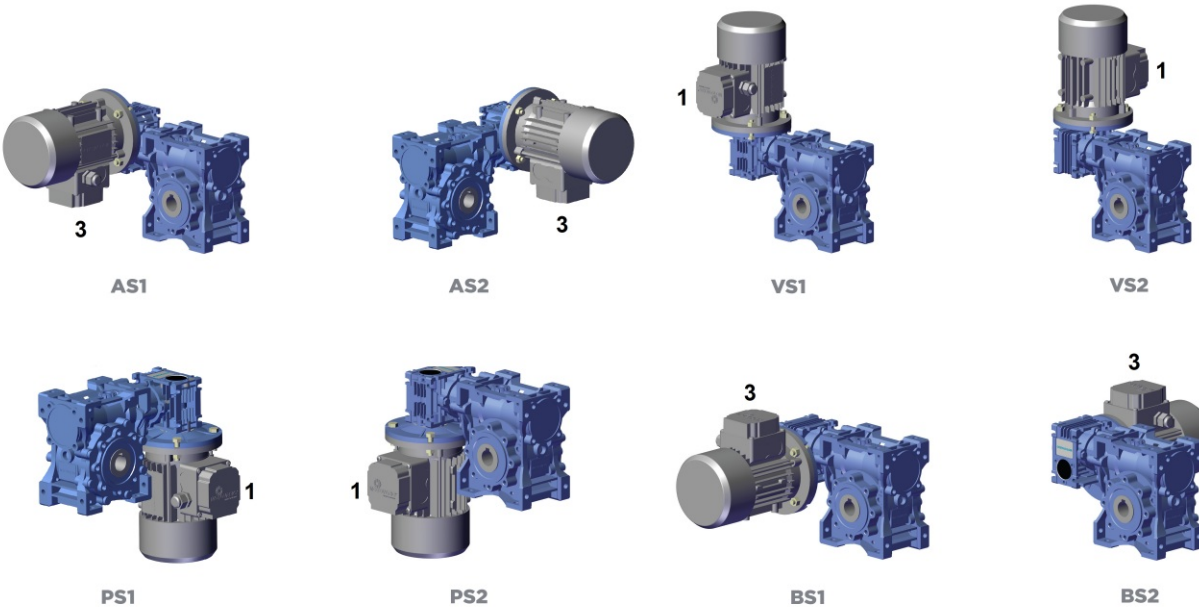


HA31 + SW (**)

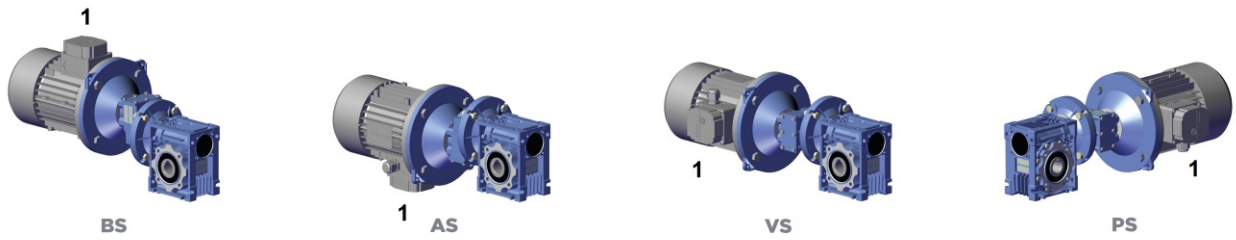


Execution

NMRV/NMRV-P+NMRV/NMRV-P - NRV/NRV-P+NMRV/NMRV-P

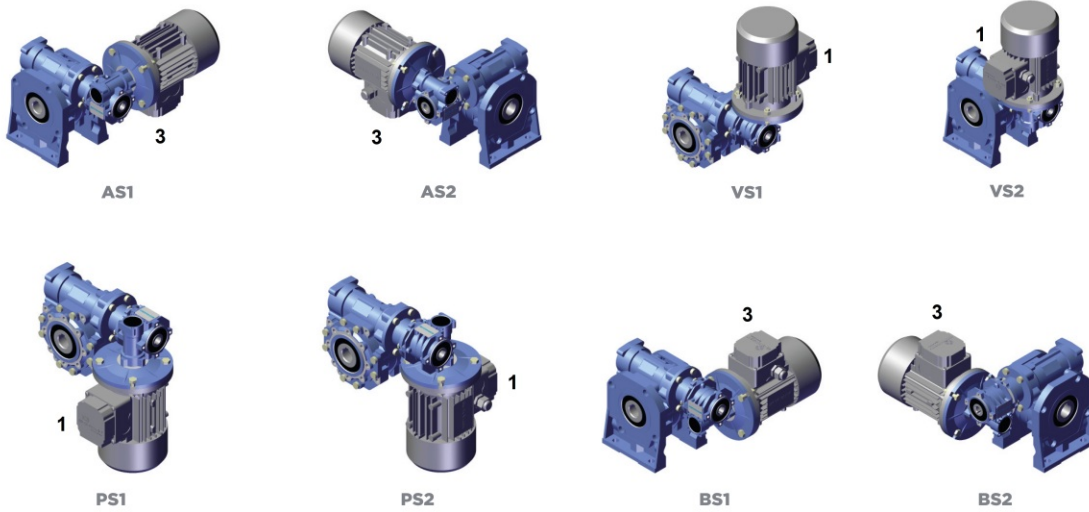


HA31+NMRV

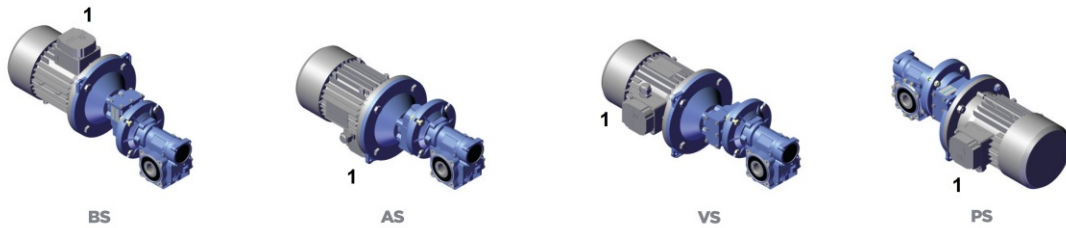


Execution

SW+SW - ISW+SW



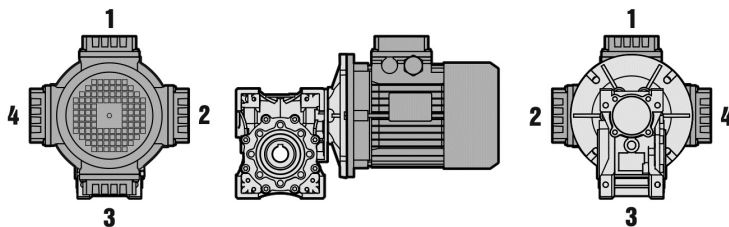
HA31+SW



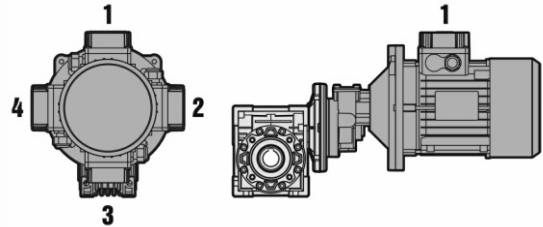
2.3.2 Position of terminal box

In the case of specific requirements, when ordering, specify the position of the terminal box as shown in the diagram. Unless otherwise specified, the gear reducer is supplied with terminal box in position 1. Terminal box position always refers to HA31 position.

NMRV - NMRV-P - SW



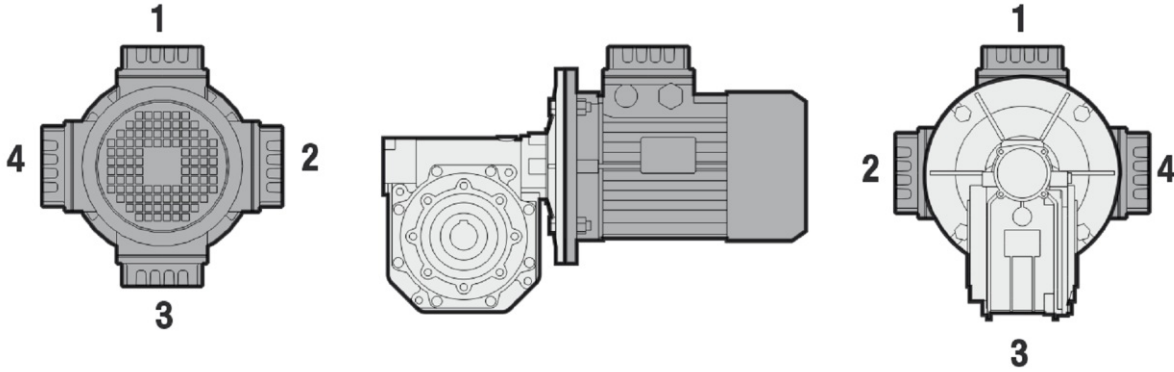
HA31+NMRV/SW



2.3.3 Position of terminal box - SW/CD

In the case of specific requirements, when ordering, specify the position of the terminal box as shown in the diagram. Unless otherwise specified, the gear reducer is supplied with terminal box in position 1.

SW-CD/A - SW-CD/C - SW-CD/D



2.4.1 Efficiency

Efficiency is a parameter which has a major influence on the sizing of certain applications, and basically depends on gear pair design elements. The mesh data table shows dynamic efficiency ($\eta_d=1750$) and static efficiency values. These values are only valid after the unit has been run in, is being used at ambient temperatures of 77°F, where service factor is 1 and with standard lubricant.

Dynamic irreversibility

Dynamic irreversibility is achieved when the output shaft stops instantly when drive is no longer transmitted through the worm shaft. This condition requires a dynamic efficiency of $\eta_d < 0.5$.

Static irreversibility

Static irreversibility is achieved when, with the gear reducer at a standstill, the application of a load to the output shaft does not set in motion the worm shaft. This condition requires a static efficiency of $\eta_s < 0.5$.

N.B.: Vibrations and shocks can affect a gear reducer's irreversibility.

2.4.2 Irreversibility

| η_d | DYNAMIC IRREVERSIBILITY |
|----------|------------------------------|
| >0.6 | dynamic reversibility |
| 0.5÷0.6 | low dynamic reversibility |
| 0.4÷0.5 | good dynamic irreversibility |
| <0.4 | dynamic irreversibility |

| η_s | STATIC IRREVERSIBILITY |
|----------|--------------------------|
| >0.55 | static reversibility |
| 0.5÷0.55 | low static reversibility |
| <0.5 | static irreversibility |

The table shows approximate irreversibility classes.

The irreversibility condition of combined gear reducers is given by the units with the lowest efficiency.

| | i | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 |
|------------|----------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 025 | Z1 | 6 | 4 | 3 | 2 | 2 | - | 1 | 1 | 1 | 1 | - | - |
| | Υ | 35°02' | 25°03' | 19°19' | 13°09' | 10°41' | | 6°40' | 5°23' | 4°31' | 3°53' | | |
| | Mx | 1.3 | 1.3 | 1.3 | 1.3 | 0.995 | | 1.3 | 0.995 | 0.8 | 0.67 | | |
| | ηδ(1400) | 0.87 | 0.85 | 0.83 | 0.79 | 0.75 | | 0.67 | 0.62 | 0.58 | 0.55 | | |
| | ηs | 0.72 | 0.71 | 0.68 | 0.61 | 0.56 | | 0.46 | 0.41 | 0.36 | 0.34 | | |
| 030 | Z1 | 6 | 4 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | - |
| | Υ | 27°04' | 18°49' | 14°20' | 9°40' | 7°42' | 5°35' | 4°52' | 3°52' | 3°12' | 2°45' | 2°07' | |
| | Mx | 1.44 | 1.44 | 1.44 | 1.44 | 1.09 | 1.7 | 1.44 | 1.09 | 0.89 | 0.74 | 0.56 | |
| | ηδ(1400) | 0.87 | 0.85 | 0.83 | 0.78 | 0.74 | 0.69 | 0.66 | 0.6 | 0.56 | 0.52 | 0.45 | |
| | ηs | 0.72 | 0.67 | 0.63 | 0.55 | 0.5 | 0.43 | 0.39 | 0.35 | 0.31 | 0.27 | 0.23 | |
| 040 | Z1 | 6 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Υ | 34°19' | 24°28' | 18°51' | 12°49' | 10°23' | 8°43' | 6°29' | 5°14' | 4°23' | 3°47' | 2°57' | 2°25' |
| | Mx | 2.06 | 2.06 | 2.06 | 2.06 | 1.57 | 1.27 | 2.06 | 1.57 | 1.27 | 1.06 | 0.81 | 0.65 |
| | ηδ(1400) | 0.89 | 0.87 | 0.85 | 0.83 | 0.79 | 0.76 | 0.71 | 0.66 | 0.63 | 0.59 | 0.53 | 0.48 |
| | ηs | 0.74 | 0.71 | 0.67 | 0.6 | 0.55 | 0.51 | 0.45 | 0.4 | 0.36 | 0.32 | 0.28 | 0.24 |
| 050 | Z1 | 6 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Υ | 33°37' | 23°54' | 18°23' | 12°30' | 10°06' | 8°29' | 6°19' | 5°06' | 4°16' | 3°40' | 2°52' | 2°21' |
| | Mx | 2.56 | 2.56 | 2.56 | 2.56 | 1.95 | 1.58 | 2.56 | 1.95 | 1.58 | 1.32 | 1 | 0.8 |
| | ηδ(1400) | 0.89 | 0.88 | 0.87 | 0.83 | 0.8 | 0.77 | 0.73 | 0.68 | 0.64 | 0.6 | 0.54 | 0.5 |
| | ηs | 0.74 | 0.7 | 0.66 | 0.59 | 0.55 | 0.51 | 0.44 | 0.39 | 0.35 | 0.32 | 0.27 | 0.23 |
| 063 | Z1 | - | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Υ | - | 24°31' | 18°53' | 12°51' | 10°25' | 8°45' | 6°30' | 5°15' | 4°24' | 3°47' | 2°58' | 2°26' |
| | Mx | - | 3.25 | 3.25 | 3.25 | 2.48 | 2 | 3.25 | 2.48 | 2 | 1.68 | 1.27 | 1.02 |
| | ηδ(1400) | - | 0.89 | 0.87 | 0.84 | 0.82 | 0.79 | 0.75 | 0.71 | 0.67 | 0.63 | 0.58 | 0.52 |
| | ηs | - | 0.71 | 0.67 | 0.6 | 0.55 | 0.51 | 0.45 | 0.4 | 0.36 | 0.33 | 0.28 | 0.24 |
| 075 | Z1 | - | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Υ | - | 26°17' | 20°20' | 13°52' | 11°18' | 9°32' | 7°02' | 5°42' | 4°48' | 4°08' | 3°14' | 2°40' |
| | Mx | - | 3.94 | 3.94 | 3.94 | 3 | 2.42 | 3.94 | 3 | 2.42 | 2.03 | 1.54 | 1.24 |
| | ηδ(1400) | - | 0.89 | 0.88 | 0.86 | 0.83 | 0.81 | 0.77 | 0.73 | 0.7 | 0.66 | 0.61 | 0.56 |
| | ηs | - | 0.71 | 0.68 | 0.61 | 0.57 | 0.53 | 0.46 | 0.42 | 0.38 | 0.35 | 0.29 | 0.26 |
| 090 | Z1 | - | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Υ | - | 29°11' | 22°44' | 15°36' | 12°50' | 10°54' | 7°57' | 6°30' | 5°30' | 4°46' | 3°45' | 3°06' |
| | Mx | - | 4.84 | 4.84 | 4.84 | 3.69 | 2.98 | 4.84 | 3.69 | 2.98 | 2.5 | 1.89 | 1.52 |
| | ηδ(1400) | - | 0.9 | 0.89 | 0.87 | 0.85 | 0.83 | 0.79 | 0.76 | 0.73 | 0.7 | 0.64 | 0.6 |
| | ηs | - | 0.73 | 0.7 | 0.64 | 0.6 | 0.56 | 0.49 | 0.45 | 0.41 | 0.38 | 0.32 | 0.28 |
| 105 110 | Z1 | - | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Υ | - | 28°15' | 21°57' | 15°02' | 14°41' | 12°34' | 7°39' | 7°28' | 6°22' | 5°32' | 4°24' | 3°39' |
| | Mx | - | 5.875 | 5.875 | 5.875 | 4.62 | 3.73 | 5.875 | 4.62 | 3.73 | 3.13 | 2.37 | 1.91 |
| | ηδ(1400) | - | 0.9 | 0.89 | 0.87 | 0.86 | 0.85 | 0.8 | 0.79 | 0.76 | 0.73 | 0.68 | 0.64 |
| | ηs | - | 0.72 | 0.69 | 0.63 | 0.62 | 0.59 | 0.48 | 0.48 | 0.44 | 0.41 | 0.36 | 0.32 |
| 130 | Z1 | - | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Υ | - | 28°41' | 22°19' | 15°18' | 13°52' | 11°49' | 7°47' | 7°02' | 5°58' | 5°11' | 4°07' | 3°24' |
| | Mx | - | 6.97 | 6.97 | 6.97 | 5.4 | 4.37 | 6.97 | 5.4 | 4.37 | 3.67 | 2.77 | 2.23 |
| | ηδ(1400) | - | 0.91 | 0.89 | 0.87 | 0.87 | 0.85 | 0.81 | 0.79 | 0.76 | 0.73 | 0.69 | 0.65 |
| | ηs | - | 0.72 | 0.69 | 0.63 | 0.61 | 0.58 | 0.49 | 0.46 | 0.43 | 0.39 | 0.34 | 0.3 |
| 150 | Z1 | - | 6 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| | Υ | - | 32°09' | 24°35' | 17°27' | 12°53' | 11°19' | 9°50' | 6°32' | 5°43' | 4°57' | 3°55' | 3°14' |
| | Mx | - | 5.5 | 6.155 | 5.5 | 6.155 | 5 | 4.193 | 6.155 | 5 | 4.193 | 3.17 | 2.55 |
| | ηδ(1400) | - | 0.91 | 0.9 | 0.88 | 0.87 | 0.85 | 0.84 | 0.79 | 0.77 | 0.74 | 0.69 | 0.65 |
| | ηs | - | 0.73 | 0.71 | 0.66 | 0.6 | 0.57 | 0.54 | 0.45 | 0.42 | 0.39 | 0.33 | 0.29 |

2.6 ANGULAR BACKLASH

These values can be detected on the output shaft, with the input shaft locked. For applications requiring controlled or reduced backlash, please contact our technical department.

| NMRV 030 | NMRV 040 | NMRV 050 | NMRV-P 063 | NMRV-P 075 | NMRV-P 90 | NMRV-P 110 | NMRV 130 | NMRV 150 |
|-----------|-----------|-----------|------------|------------|-----------|------------|----------|----------|
| 20' - 44' | 18' - 34' | 18' - 32' | 18' - 28' | 16' - 24' | 6' - 18' | 6' - 14' | 6' - 12' | 6' - 12' |

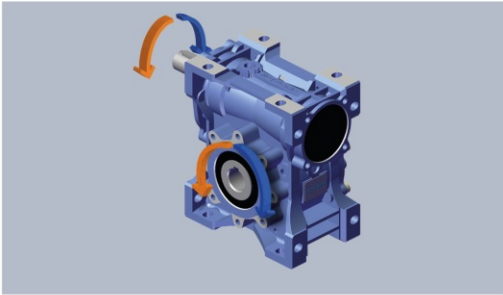
| SW 030 | SW 040 | SW 050 | SW 063 | SW 075 | SW 090 | SW 105 |
|-----------|-----------|-----------|-----------|-----------|----------|----------|
| 20' - 44' | 18' - 34' | 18' - 32' | 18' - 28' | 16' - 24' | 6' - 18' | 6' - 14' |

2.7.1 Direction of rotation

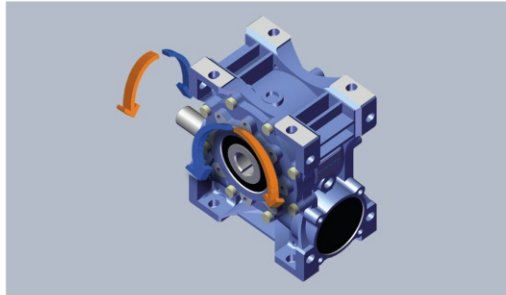
The worm screw rotation is right-handed.

DIRECTION OF ROTATION - HIGH SPEED SHAFT

NMRV - NRV - SW - ISW

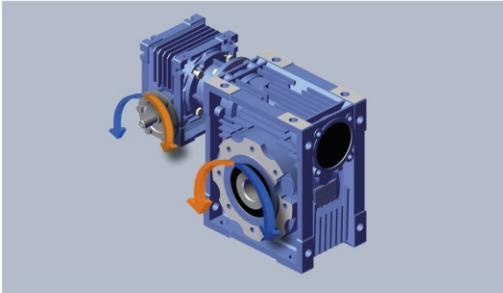


MOUNTING POSITION **B3**

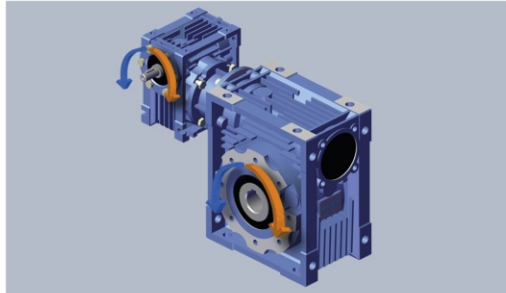


MOUNTING POSITION **B8**

NMRV + NMRV - SW + SW - NRV + NMRV - ISW + SW



MOUNTING POSITION **AS1**

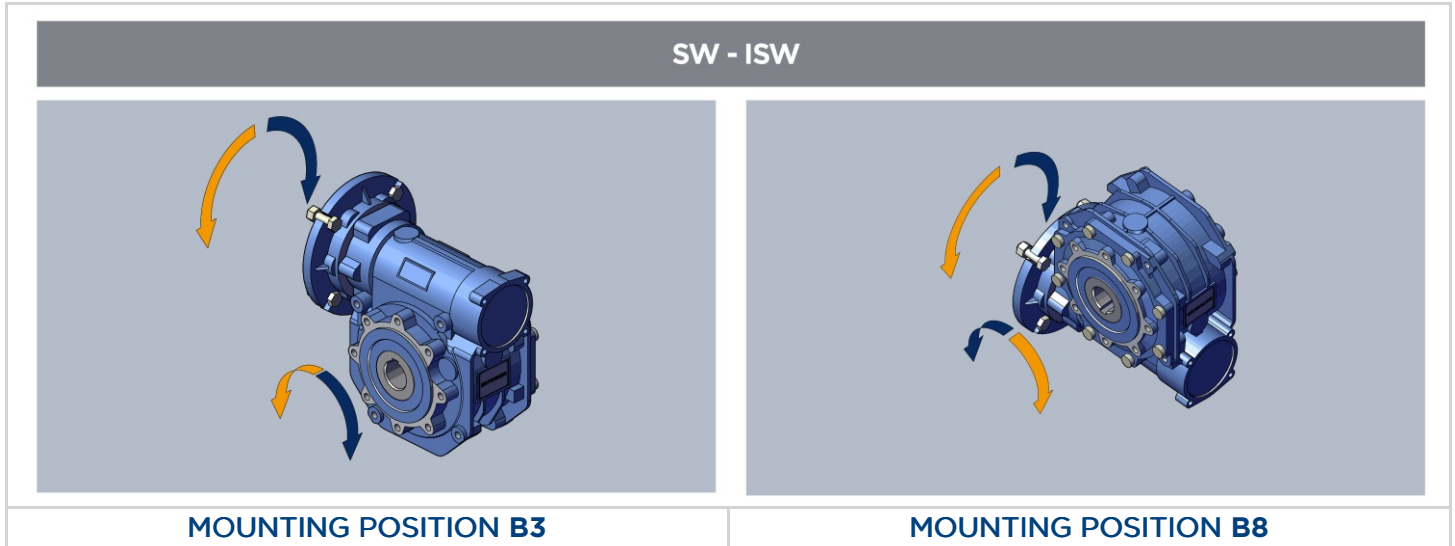


MOUNTING POSITION **BS1**

2.7.2 Direction of rotation - SW/CD

The worm screw rotation is right-handed.

DIRECTION OF ROTATION - HIGH SPEED SHAFT



2.8.1 Critical applications

| NMRV - NMRV-P | NMRV | | | | NMRV-P | | | | NMRV | |
|-----------------------------------|------|-----|-----|-----|--------|-----|-----|-----|------|-----|
| | 025 | 030 | 040 | 050 | 063 | 075 | 090 | 110 | 130 | 150 |
| V5: 1500 < n1 < 3000 | ✓ | ✓ | ✓ | ✓ | B | B | B | B | B | B |
| n1 > 3000 | B | B | B | B | B | B | A | A | A | A |
| V6 | B | B | B | B | B | B | B | B | B | B |

| SW | 030 | 040 | 050 | 063 | 075 | 090 | 105 |
|-----------------------------------|-----|-----|-----|-----|-----|-----|-----|
| V5: 1500 < n1 < 3000 | ✓ | ✓ | ✓ | ✓ | B | B | B |
| n1 > 3000 | B | B | B | B | A | A | A |
| V6 | B | B | B | B | B | B | B |

| H | A31 | HW+NMRV-P | 030+063 | 030+075 | 040+090 | 040+110 |
|--|-----|---------------------------|---------|---------|---------|---------|
| V5 - V1: 1500 < n1 < 3000 | ✓ | 1500<n1<3000 | B | B | B | B |
| n1 > 3000 | B | n1>3000 | A | A | A | A |
| V3 - V6 | B | V5 - V6 | B | B | B | B |

✓ Verified application

A Application not recommended

B Check the application and/or call MOTOVARIO TECHNICAL SERVICE.

2.8.2 Information

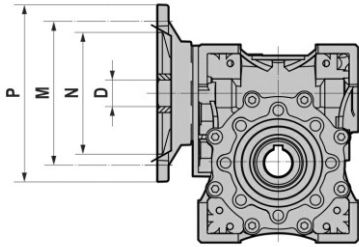
The performance given in the catalogue correspond to mounting position B3 or similar, when the first stage is not entirely immersed in oil. For other mounting positions and/or particular input speeds, refer to the tables that highlight different critical situations for each size of gear reducer. It is also necessary to take due consideration of and carefully assess the following applications by calling MOTOVARIO TECHNICAL SERVICE:

- To avoid the use as multiplier.
- Use in services that could be hazardous for people if the gear reducer fails.
- Applications with especially high inertia.
- Use as a lifting winch.
- Applications with high dynamic strain on the case of the gear reducer.
- In places with T_{amb} under 23°F °C or over 104°F.
- Use in chemically aggressive environments.
- Use in a salty environment.
- Mounting positions not envisaged in the catalogue.
- Use in radioactive environments.
- Use in environments pressures other than atmospheric pressure.

Avoid applications where even partial immersion of the reducer is required.

In the presence of overloading due to full load, braking, shocks or other static and dynamic causes, please verify that the peak torque is less than $2 \cdot Mn_2$.

2.9.1 NMRV - NMRV-P Motor flange availability



(•) Motor-ratio combination feasible.

(-) Motor-ratio combination not feasible.

The table reports possible configurations strictly based on geometric criteria. To determine the compatibility of a motor-gear unit assembly in terms of mechanical factors, double check the selected configuration against the rating charts for NRV/NRV-P performances.

| NMRV NMRV-P | NEMA | N | M | P | D | Available Ratios | | | | | | | | | | | |
|----------------|-------|------|------|-------|-------|------------------|-----|----|----|----|----|----|----|----|----|----|-----|
| | | | | | | 5 | 7,5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 |
| 030 | 48C | 3.00 | 3.75 | 5.625 | 0.500 | • | • | • | • | • | • | • | • | • | • | • | • |
| 040 | 56C | 4.50 | 5.88 | 6.500 | 0.625 | • | • | • | • | • | • | • | • | • | • | • | • |
| 050 | 56C | 4.50 | 5.88 | 6.500 | 0.625 | • | • | • | • | • | • | • | • | • | • | • | • |
| 063 | 56C | 4.50 | 5.88 | 6.500 | 0.625 | - | - | - | • | • | • | • | • | • | • | • | • |
| | 140TC | 4.50 | 5.88 | 6.500 | 0.875 | - | • | • | • | • | • | • | • | • | • | • | - |
| 075 | 56C | 4.50 | 5.88 | 6.500 | 0.625 | - | - | - | - | - | - | - | • | • | • | • | • |
| | 140TC | 4.50 | 5.88 | 6.500 | 0.875 | - | • | • | • | • | • | • | • | • | • | • | • |
| | 180TC | 8.50 | 7.25 | 9.000 | 1.125 | - | • | • | • | • | • | • | - | - | - | - | - |
| 090 | 56C | 4.50 | 5.88 | 6.500 | 0.625 | - | - | - | - | - | - | - | - | - | - | • | • |
| | 140TC | 4.50 | 5.88 | 6.500 | 0.875 | - | - | • | - | - | • | • | • | • | • | • | • |
| | 180TC | 8.50 | 7.25 | 9.000 | 1.125 | - | • | • | • | • | • | • | • | • | - | - | - |
| 110 | 140TC | 4.50 | 5.88 | 6.500 | 0.875 | - | - | - | - | - | - | - | - | • | • | • | • |
| | 180TC | 8.50 | 7.25 | 9.000 | 1.125 | - | - | - | - | • | • | • | • | • | • | • | • |
| 130 | 140TC | 4.50 | 5.88 | 6.500 | 0.875 | - | - | - | - | - | - | - | - | - | - | • | • |
| | 180TC | 8.50 | 7.25 | 9.000 | 1.125 | - | - | - | - | - | - | • | • | • | • | • | • |
| | 210TC | 8.50 | 7.25 | 9.000 | 1.375 | - | • | • | • | • | • | • | • | • | - | - | - |
| 150 | 180TC | 8.50 | 7.25 | 9.000 | 1.125 | - | - | - | - | - | - | • | • | • | • | • | • |
| | 210TC | 8.50 | 7.25 | 9.000 | 1.375 | - | - | - | • | • | • | • | • | - | - | - | - |
| | 250TC | 8.50 | 7.25 | 9.000 | 1.625 | - | • | • | • | • | - | - | - | - | - | - | - |

2.9.2 NMRV-P/HW Motor flange availability

| HW030 | NMRV-P 063 | i1xi2 | 56C | 140TC |
|-------|------------|--------|-----|-------|
| 2.94 | 7,5 | 22.08 | • | • |
| 3.87 | 7,5 | 29.00 | • | • |
| 3.87 | 10 | 38.67 | • | • |
| 2.94 | 15 | 44.17 | • | • |
| 4.75 | 10 | 47.50 | • | • |
| 3.87 | 15 | 58.00 | • | • |
| 4.75 | 15 | 71.25 | • | • |
| 3.87 | 20 | 77.33 | • | • |
| 5.45 | 15 | 81.82 | • | • |
| 2.94 | 30 | 88.33 | • | • |
| 4.75 | 20 | 95.00 | • | • |
| 5.45 | 20 | 109.09 | • | • |
| 7.88 | 15 | 118.13 | • | • |
| 5.45 | 25 | 136.36 | • | • |
| 4.75 | 30 | 142.50 | • | • |
| 7.88 | 20 | 157.50 | • | • |
| 5.45 | 30 | 163.64 | • | • |
| 2.94 | 60 | 176.67 | • | • |
| 7.88 | 25 | 196.88 | • | • |
| 5.45 | 40 | 218.18 | • | • |
| 7.88 | 30 | 236.25 | • | • |
| 5.45 | 50 | 272.73 | • | • |
| 7.88 | 40 | 315.00 | • | • |
| 7.88 | 50 | 393.75 | • | • |
| 10.83 | 40 | 433.33 | • | • |
| 7.88 | 60 | 472.50 | • | • |
| 10.83 | 50 | 541.67 | • | • |
| 10.83 | 60 | 650.00 | • | • |

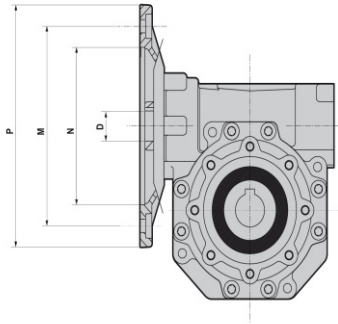
| HW030 | NMRV-P 075 | i | 56C | 140TC |
|-------|------------|--------|-----|-------|
| 2.94 | 7,5 | 22.08 | • | • |
| 3.87 | 7,5 | 29.00 | • | • |
| 3.87 | 10 | 38.67 | • | • |
| 2.94 | 15 | 44.17 | • | • |
| 4.75 | 10 | 47.50 | • | • |
| 3.87 | 15 | 58.00 | • | • |
| 4.75 | 15 | 71.25 | • | • |
| 3.87 | 20 | 77.33 | • | • |
| 5.45 | 15 | 81.82 | • | • |
| 2.94 | 30 | 88.33 | • | • |
| 4.75 | 20 | 95.00 | • | • |
| 5.45 | 20 | 109.09 | • | • |
| 3.87 | 30 | 116.00 | • | • |
| 5.45 | 25 | 136.36 | • | • |
| 4.75 | 30 | 142.50 | • | • |
| 3.87 | 40 | 154.67 | • | • |
| 5.45 | 30 | 163.64 | • | • |
| 2.94 | 60 | 176.67 | • | • |
| 7.88 | 25 | 196.88 | • | • |
| 5.45 | 40 | 218.18 | • | • |
| 7.88 | 30 | 236.25 | • | • |
| 5.45 | 50 | 272.73 | • | • |
| 7.88 | 40 | 315.00 | • | • |
| 7.88 | 50 | 393.75 | • | • |
| 7.88 | 60 | 472.50 | • | • |
| 10.83 | 50 | 541.67 | • | • |
| 10.83 | 60 | 650.00 | • | • |
| 7.88 | 100 | 787.50 | • | • |
| 10.83 | 80 | 866.67 | • | • |

2.9 MOTOR FLANGE AVAILABILITY

| HW040 | NMRV-P 090 | i | 56C | 140TC | 180TC |
|-------|------------|--------|-----|-------|-------|
| 3.11 | 7,5 | 23.29 | • | • | • |
| 3.11 | 10 | 31.05 | • | • | • |
| 4.20 | 10 | 42.00 | • | • | • |
| 3.11 | 15 | 46.58 | • | • | • |
| 4.20 | 15 | 63.00 | • | • | |
| 3.11 | 25 | 77.63 | • | • | |
| 4.20 | 20 | 84.00 | • | • | |
| 3.11 | 30 | 93.16 | • | • | |
| 5.50 | 20 | 110.00 | • | • | |
| 4.20 | 30 | 126.00 | • | • | |
| 5.50 | 25 | 137.50 | • | • | |
| 3.11 | 50 | 155.26 | • | • | |
| 5.50 | 30 | 165.00 | • | • | |
| 3.11 | 60 | 186.32 | • | | |
| 5.50 | 40 | 220.00 | • | • | |
| 4.20 | 60 | 252.00 | • | | |
| 5.50 | 50 | 275.00 | • | | |
| 6.09 | 50 | 304.55 | • | | |
| 5.50 | 60 | 330.00 | • | | |
| 7.67 | 50 | 383.33 | • | | |
| 8.75 | 50 | 437.50 | • | | |
| 7.67 | 60 | 460.00 | • | | |
| 8.75 | 60 | 525.00 | • | | |
| 7.67 | 80 | 613.33 | • | | |
| 8.75 | 80 | 700.00 | • | | |
| 7.67 | 100 | 766.67 | • | | |
| 8.75 | 100 | 875.00 | • | | |

| HW040 | NMRV-P 110 | i | 56C | 140TC | 180TC |
|-------|------------|--------|-----|-------|-------|
| 3.11 | 7,5 | 23.29 | • | • | • |
| 3.11 | 10 | 31.05 | • | • | • |
| 4.20 | 10 | 42.00 | • | • | • |
| 3.11 | 15 | 46.58 | • | • | • |
| 3.11 | 20 | 62.11 | • | • | • |
| 3.11 | 25 | 77.63 | • | • | • |
| 4.20 | 20 | 84.00 | • | • | • |
| 3.11 | 30 | 93.16 | • | • | • |
| 4.20 | 25 | 105.00 | • | • | • |
| 4.20 | 30 | 126.00 | • | • | • |
| 5.50 | 25 | 137.50 | • | • | |
| 3.11 | 50 | 155.26 | • | • | |
| 4.20 | 40 | 168.00 | • | • | |
| 3.11 | 60 | 186.32 | • | • | |
| 5.50 | 40 | 220.00 | • | • | |
| 4.20 | 60 | 252.00 | • | • | |
| 5.50 | 50 | 275.00 | • | • | |
| 6.09 | 50 | 304.55 | • | • | |
| 5.50 | 60 | 330.00 | • | • | |
| 7.67 | 50 | 383.33 | • | | |
| 5.50 | 80 | 440.00 | • | | |
| 7.67 | 60 | 460.00 | • | | |
| 8.75 | 60 | 525.00 | • | | |
| 7.67 | 80 | 613.33 | • | | |
| 8.75 | 80 | 700.00 | • | | |
| 7.67 | 100 | 766.67 | • | | |
| 8.75 | 100 | 875.00 | • | | |

2.9.3 SW Motor flange availability



(•) Motor-ratio combination feasible.

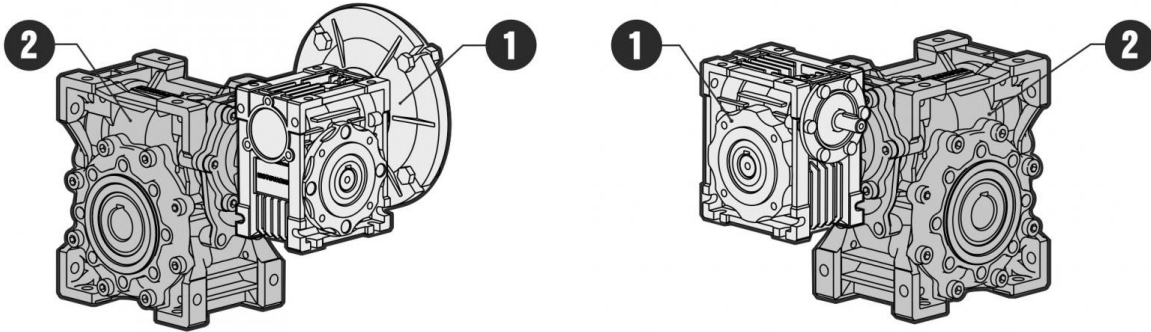
(-) Motor-ratio combination not feasible.

The table reports possible configurations strictly based on geometric criteria. To determine the compatibility of a motor-gear unit assembly in terms of mechanical factors, double check the selected configuration against the rating charts for SW/ISW performances.

| SW | NEMA | N | M | P | D | Available Ratios | | | | | | | | | | | |
|-----|-------|------|------|-------|-------|------------------|-----|----|----|----|----|----|----|----|----|----|-----|
| | | | | | | 5 | 7,5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 |
| 030 | 48C | 3.00 | 3.75 | 5.625 | 0.500 | • | • | • | • | • | • | • | • | • | • | • | • |
| 040 | 56C | 4.50 | 5.88 | 6.500 | 0.625 | • | • | • | • | • | • | • | • | • | • | • | • |
| 050 | 56C | 4.50 | 5.88 | 6.500 | 0.625 | • | • | • | • | • | • | • | • | • | • | • | • |
| 063 | 56C | 4.50 | 5.88 | 6.500 | 0.625 | - | - | - | • | • | • | • | • | • | • | • | • |
| | 140TC | 4.50 | 5.88 | 6.500 | 0.875 | - | • | • | • | • | • | • | • | • | • | • | - |
| 075 | 56C | 4.50 | 5.88 | 6.500 | 0.625 | - | - | - | • | - | • | - | • | • | • | • | • |
| | 140TC | 4.50 | 5.88 | 6.500 | 0.875 | - | • | • | • | • | • | • | • | • | • | • | • |
| | 180TC | 8.50 | 7.25 | 9.000 | 1.125 | - | • | • | • | • | • | • | - | - | - | - | - |
| 090 | 56C | 4.50 | 5.88 | 6.500 | 0.625 | - | - | - | - | - | - | - | - | - | - | • | • |
| | 140TC | 4.50 | 5.88 | 6.500 | 0.875 | - | - | • | - | - | • | • | • | • | • | • | • |
| | 180TC | 8.50 | 7.25 | 9.000 | 1.125 | - | • | • | • | • | • | • | • | • | - | - | - |
| 105 | 140TC | 4.50 | 5.88 | 6.500 | 0.875 | - | - | - | - | - | - | - | - | • | • | • | • |
| | 180TC | 8.50 | 7.25 | 9.000 | 1.125 | - | - | - | - | • | • | • | • | • | • | • | • |

2.9.4 Ratios NRV/NMRV/NMRV-P+NMRV/NMRV-P

The table report possible configurations strictly based on geometric criteria. To determine the compatibility of a motor-gear unit assembly in terms of mechanical factors, double check the selected configuration against the rating charts performances.



| i | NMRV/NMRV | i1 | i2 |
|------|-----------|-----|----|
| 100 | 025/030 | 10 | 10 |
| 150 | | 7.5 | 20 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 10 | 30 |
| 400 | | 20 | 20 |
| 500 | | 20 | 25 |
| 600 | | 20 | 30 |
| 750 | | 30 | 25 |
| 900 | | 15 | 60 |
| 1200 | | 30 | 40 |
| 1500 | | 30 | 50 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | 50 | 80 | |

| i | NMRV/NMRV | i1 | i2 |
|------|-----------|-----|----|
| 100 | 025/040 | 10 | 10 |
| 150 | | 7.5 | 20 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 10 | 30 |
| 400 | | 20 | 20 |
| 500 | | 20 | 25 |
| 600 | | 20 | 30 |
| 750 | | 30 | 25 |
| 900 | | 30 | 30 |
| 1200 | | 30 | 40 |
| 1500 | | 30 | 50 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | 50 | 80 | |
| 5000 | 50 | 100 | |

| i | NMRV/NMRV NRV/NMRV | i1 | i2 |
|------|-----------------------|-----|----|
| 100 | 030/040 | 10 | 10 |
| 150 | | 10 | 15 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 10 | 30 |
| 400 | | 10 | 40 |
| 500 | | 20 | 25 |
| 600 | | 20 | 30 |
| 750 | | 25 | 30 |
| 900 | | 30 | 30 |
| 1200 | | 40 | 30 |
| 1500 | | 50 | 30 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | 50 | 80 | |
| 5000 | 50 | 100 | |

2.9 MOTOR FLANGE AVAILABILITY

| i | NMRV/NMRV NRV/NMRV | i1 | i2 |
|------|-----------------------|-----|----|
| 100 | 030/050 | 10 | 10 |
| 150 | | 10 | 15 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 10 | 30 |
| 400 | | 10 | 40 |
| 500 | | 10 | 50 |
| 600 | | 20 | 30 |
| 750 | | 25 | 30 |
| 900 | | 30 | 30 |
| 1200 | | 40 | 30 |
| 1500 | | 50 | 30 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | | 50 | 80 |
| 5000 | 50 | 100 | |

| i | NMRV/NMRV-P NRV/NMRV-P | i1 | i2 |
|------|---------------------------|-----|----|
| 100 | 030/063 | 10 | 10 |
| 150 | | 10 | 15 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 7.5 | 40 |
| 400 | | 10 | 40 |
| 500 | | 10 | 50 |
| 600 | | 20 | 30 |
| 750 | | 25 | 30 |
| 900 | | 30 | 30 |
| 1200 | | 40 | 30 |
| 1500 | | 50 | 30 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | | 80 | 50 |
| 5000 | 50 | 100 | |

| i | NMRV/NMRV NRV/NMRV | i1 | i2 |
|------|-----------------------|----|----|
| 100 | 040/050 | 10 | 10 |
| 150 | | 10 | 15 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 10 | 30 |
| 400 | | 10 | 40 |
| 500 | | 50 | 10 |
| 600 | | 20 | 30 |
| 750 | | 25 | 30 |
| 900 | | 60 | 15 |
| 1200 | | 40 | 30 |
| 1500 | | 50 | 30 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | | 80 | 50 |
| 5000 | 100 | 50 | |

2.9 MOTOR FLANGE AVAILABILITY

| i | NMRV/NMRV-P NRV/NMRV-P | i1 | i2 |
|------|---------------------------|----|----|
| 100 | 040/063 | 10 | 10 |
| 150 | | 10 | 15 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 10 | 30 |
| 400 | | 10 | 40 |
| 500 | | 20 | 25 |
| 600 | | 20 | 30 |
| 750 | | 25 | 30 |
| 900 | | 30 | 30 |
| 1200 | | 40 | 30 |
| 1500 | | 50 | 30 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | | 80 | 50 |
| 5000 | 100 | 50 | |

| i | NMRV/NMRV-P NRV/NMRV-P | i1 | i2 |
|------|---------------------------|----|----|
| 100 | 040/075 | 10 | 10 |
| 150 | | 10 | 15 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 10 | 30 |
| 400 | | 10 | 40 |
| 500 | | 10 | 50 |
| 600 | | 20 | 30 |
| 750 | | 25 | 30 |
| 900 | | 30 | 30 |
| 1200 | | 40 | 30 |
| 1500 | | 50 | 30 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | | 80 | 50 |
| 5000 | 100 | 50 | |

| i | NMRV/NMRV-P NRV/NMRV-P | i1 | i2 |
|------|---------------------------|----|----|
| 100 | 040/090 | 10 | 10 |
| 150 | | 10 | 15 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 10 | 30 |
| 400 | | 10 | 40 |
| 500 | | 10 | 50 |
| 600 | | 20 | 30 |
| 750 | | 25 | 30 |
| 900 | | 30 | 30 |
| 1200 | | 40 | 30 |
| 1500 | | 50 | 30 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | | 80 | 50 |
| 5000 | 100 | 50 | |

| i | NMRV/NMRV-P NRV/NMRV-P | i1 | i2 |
|------|---------------------------|----|----|
| 100 | 050/090 | 10 | 10 |
| 150 | | 10 | 15 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 10 | 30 |
| 400 | | 10 | 40 |
| 500 | | 20 | 25 |
| 600 | | 20 | 30 |
| 750 | | 25 | 30 |
| 900 | | 30 | 30 |
| 1200 | | 40 | 30 |
| 1500 | | 50 | 30 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | | 80 | 50 |
| 5000 | 100 | 50 | |

| i | NMRV/NMRV-P NRV/NMRV-P | i1 | i2 |
|------|---------------------------|----|----|
| 100 | 050/110 | 10 | 10 |
| 150 | | 10 | 15 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 10 | 30 |
| 400 | | 10 | 40 |
| 500 | | 20 | 25 |
| 600 | | 20 | 30 |
| 750 | | 25 | 30 |
| 900 | | 30 | 30 |
| 1200 | | 40 | 30 |
| 1500 | | 50 | 30 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | | 80 | 50 |
| 5000 | 100 | 50 | |

| i | NMRV-P/NMRV-P NRV-P/NMRV-P | i1 | i2 |
|------|-------------------------------|----|----|
| 100 | 063/110 | 10 | 10 |
| 150 | | 10 | 15 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 10 | 30 |
| 400 | | 10 | 40 |
| 500 | | 20 | 25 |
| 600 | | 20 | 30 |
| 750 | | 25 | 30 |
| 900 | | 30 | 30 |
| 1200 | | 40 | 30 |
| 1500 | | 50 | 30 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | | 80 | 50 |
| 5000 | 100 | 50 | |

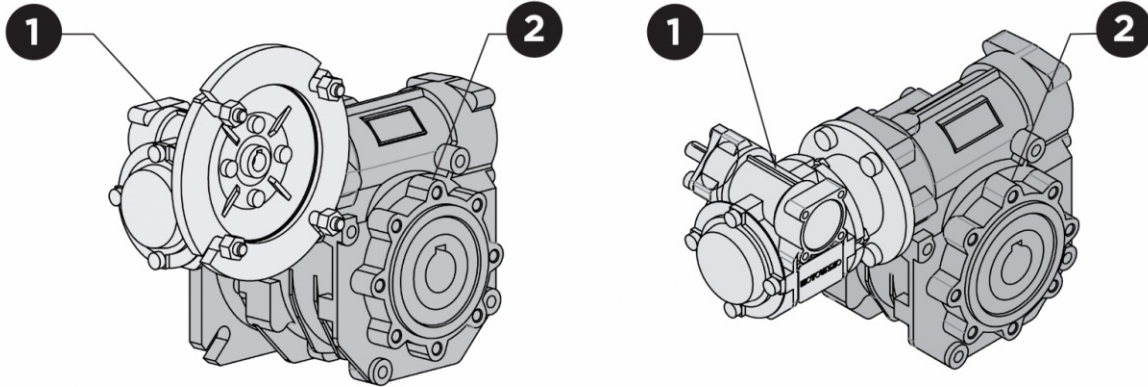
2.9 MOTOR FLANGE AVAILABILITY

| i | NMRV-P/NMRV NRV-P/NMRV | i1 | i2 |
|------|---------------------------|-----|----|
| 100 | 063/130 | 10 | 10 |
| 150 | | 10 | 15 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 10 | 30 |
| 400 | | 10 | 40 |
| 500 | | 10 | 50 |
| 600 | | 20 | 30 |
| 750 | | 25 | 30 |
| 900 | | 30 | 30 |
| 1200 | | 40 | 30 |
| 1500 | | 50 | 30 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | | 80 | 50 |
| 5000 | | 100 | 50 |

| i | NMRV-P/NMRV NRV-P/NMRV | i1 | i2 |
|------|---------------------------|-----|----|
| 150 | 063/150 | 7.5 | 20 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 15 | 20 |
| 400 | | 10 | 40 |
| 500 | | 10 | 50 |
| 600 | | 15 | 40 |
| 750 | | 15 | 50 |
| 900 | | 30 | 30 |
| 1200 | | 30 | 40 |
| 1500 | | 30 | 50 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | | 80 | 50 |
| 5000 | 100 | 50 | |

2.9.5 Ratios ISW/SW+SW

The table report possible configurations strictly based on geometric criteria. To determine the compatibility of a motor-gear unit assembly in terms of mechanical factors, double check the selected configuration against the rating charts performances.



| i | SW/SW ISW/SW | i1 | i2 |
|------|-----------------|----|-----|
| 100 | SW030/040 | 10 | 10 |
| 150 | | 10 | 15 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 10 | 30 |
| 400 | | 10 | 40 |
| 500 | | 20 | 25 |
| 600 | | 20 | 30 |
| 750 | | 25 | 30 |
| 900 | | 30 | 30 |
| 1200 | | 40 | 30 |
| 1500 | | 50 | 30 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | | 50 | 80 |
| 5000 | | 50 | 100 |

| i | SW/SW ISW/SW | i1 | i2 |
|------|-----------------|----|-----|
| 100 | SW030/050 | 10 | 10 |
| 150 | | 10 | 15 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 10 | 30 |
| 400 | | 10 | 40 |
| 500 | | 10 | 50 |
| 600 | | 20 | 30 |
| 750 | | 25 | 30 |
| 900 | | 30 | 30 |
| 1200 | | 40 | 30 |
| 1500 | | 50 | 30 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | | 50 | 80 |
| 5000 | | 50 | 100 |

| i | SW/SW ISW/SW | i1 | i2 |
|------|-----------------|-----|-----|
| 100 | SW030/063 | 10 | 10 |
| 150 | | 10 | 15 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 7,5 | 40 |
| 400 | | 10 | 40 |
| 500 | | 10 | 50 |
| 600 | | 20 | 30 |
| 750 | | 25 | 30 |
| 900 | | 30 | 30 |
| 1200 | | 40 | 30 |
| 1500 | | 50 | 30 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | | 80 | 50 |
| 5000 | | 50 | 100 |

2.9 MOTOR FLANGE AVAILABILITY

| i | SW/SW ISW/SW | i1 | i2 |
|------|-----------------|-----|----|
| 100 | SW040/075 | 10 | 10 |
| 150 | | 10 | 15 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 10 | 30 |
| 400 | | 10 | 40 |
| 500 | | 10 | 50 |
| 600 | | 20 | 30 |
| 750 | | 25 | 30 |
| 900 | | 30 | 30 |
| 1200 | | 40 | 30 |
| 1500 | | 50 | 30 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | | 80 | 50 |
| 5000 | | 100 | 50 |

| i | SW/SW ISW/SW | i1 | i2 |
|------|-----------------|-----|----|
| 100 | SW040/090 | 10 | 10 |
| 150 | | 10 | 15 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 10 | 30 |
| 400 | | 10 | 40 |
| 500 | | 10 | 50 |
| 600 | | 20 | 30 |
| 750 | | 25 | 30 |
| 900 | | 30 | 30 |
| 1200 | | 40 | 30 |
| 1500 | | 50 | 30 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | | 80 | 50 |
| 5000 | | 100 | 50 |

| i | SW/SW ISW/SW | i1 | i2 |
|------|-----------------|-----|----|
| 100 | SW050/090 | 10 | 10 |
| 150 | | 10 | 15 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 10 | 30 |
| 400 | | 10 | 40 |
| 500 | | 20 | 25 |
| 600 | | 20 | 30 |
| 750 | | 25 | 30 |
| 900 | | 30 | 30 |
| 1200 | | 40 | 30 |
| 1500 | | 50 | 30 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | | 80 | 50 |
| 5000 | | 100 | 50 |

| i | SW/SW ISW/SW | i1 | i2 |
|------|-----------------|-----|----|
| 100 | SW050/105 | 10 | 10 |
| 150 | | 10 | 15 |
| 200 | | 10 | 20 |
| 250 | | 10 | 25 |
| 300 | | 10 | 30 |
| 400 | | 10 | 40 |
| 500 | | 20 | 25 |
| 600 | | 20 | 30 |
| 750 | | 25 | 30 |
| 900 | | 30 | 30 |
| 1200 | | 40 | 30 |
| 1500 | | 50 | 30 |
| 1800 | | 60 | 30 |
| 2400 | | 60 | 40 |
| 3000 | | 60 | 50 |
| 4000 | | 80 | 50 |
| 5000 | | 100 | 50 |

| VSF | | Standard | On request |
|-------------|-----|----------|------------|
| NMRV | 025 | 1 | / |
| NMRV - SW | 030 | 1 | / |
| NMRV - SW | 040 | 1 | 2 |
| NMRV - SW | 050 | 1 | 2 |
| NMRV-P - SW | 063 | 1 | 2 |
| NMRV-P - SW | 075 | 1 | 2 |
| NMRV-P - SW | 090 | 1 | 2 |
| SW | 105 | 1 | 2 |
| NMRV-P - SW | 110 | 1 | 2 |
| NMRV | 130 | 1 | 2 |
| NMRV | 150 | 1 | 2 |

1 - Ball Bearing

2 - Roller bearings

/ - Not available

2.11.1 Information

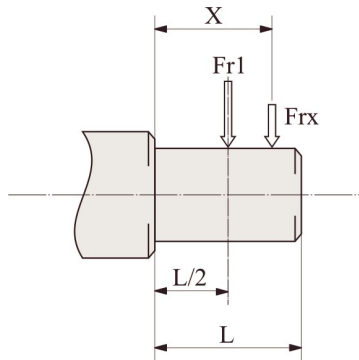
The value of the admissible radial load [lb] is given in the tables relating to the performance of the gear reducer at issue. It is related to the load applied on the centre line of the shaft and in the most unfavourable conditions of angle of application and direction of rotation. The maximum admissible axial loads are 1/5 of the value of the given radial load when they are applied in combination with the radial load. The tables relating to the output shafts give the maximum admissible value. This value must never be exceeded since it relates to the strength of the case. Particular conditions of radial load higher than the limits of the catalogue may occur. In this case, call our Technical Service and provide details on the application: direction of the load, direction of rotation of the shaft, type of service. In case of double extension shafts with radial load applied on both ends, the max. admissible radial loads must be defined according to the specific running conditions, in this case call our Technical Service. The radial load on the shaft is calculated with the following formula: $Fr_e = (2 \cdot M \cdot fz) / D \leq Fr_1$ or Fr_2

- **Fr_e** [lb] Resulting radial load
- **M** [lb-in] Torque on the shaft
- **D** [in] Diameter of the transmission member mounted on the shaft
- **Fr₁-Fr₂** [lb] Value of the maximum admitted radial load (see relative tables)
- **fz** = 1.1 gear pinion - 1.4 chain wheel - 1.7 v-pulley - 2.5 flat pulley

2.11.2 Input

When the radial load is not on the center line of the shaft, it is necessary to adjust the admissible radial load Fr₁ with the following formula: $Fr_x = (Fr_1 \cdot a) / (b + x)$

- **a**, **b** = values given in the tables
- **x** = distance from the point of application of the load to the shaft shoulder



| NRV/NRV-P | 030 | 040 | 050 | 063 | 075 | 090 | 110 | 130 | 150 |
|-------------------------|------|------|------|------|------|------|-------|-------|-------|
| a | 3.39 | 4.17 | 5.08 | 6.26 | 7.56 | 8.94 | 10.47 | 12.36 | 13.78 |
| b | 2.99 | 3.72 | 4.49 | 5.47 | 6.57 | 7.95 | 9.29 | 10.79 | 12.20 |
| Fr ₁ max(**) | 47 | 79 | 110 | 157 | 220 | 286 | 382 | 472 | 629 |

| ISW | 030 | 040 | 050 | 063 | 075 | 090 | 105 |
|-------------------------|------|------|------|------|------|------|-------|
| a | 3.39 | 4.17 | 5.08 | 6.26 | 7.56 | 8.94 | 10.47 |
| b | 2.99 | 3.72 | 4.49 | 5.47 | 6.57 | 7.95 | 9.29 |
| Fr ₁ max(**) | 47 | 79 | 110 | 157 | 220 | 286 | 382 |

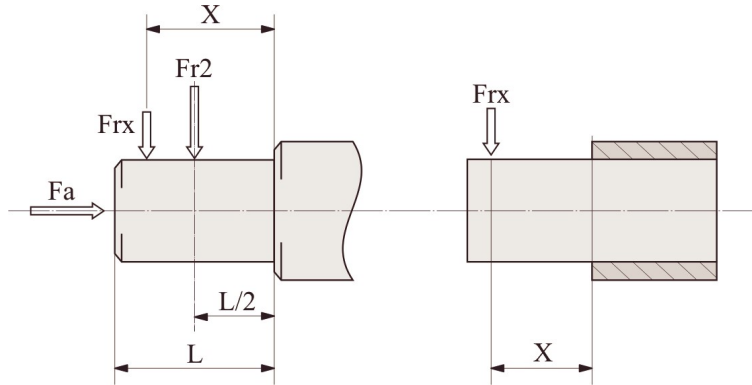
| IHW040 | 090 | 110 |
|-------------------------|------|------|
| a | 2.80 | 2.80 |
| b | 2.01 | 2.01 |
| Fr ₁ max(**) | 90 | 112 |

(**Fr₁ max) Max admissible value of the reducer in static conditions and/or for limited operations. For continuous overhung loads please check the values on the performances tables calculated according to the casing, the shaft and bearings.

2.11.3 Output

When the radial load is not on the centre line of the shaft, it is necessary to adjust the admissible radial load $Fr2$ with the following formula: $Fr_x = (Fr2 \cdot a) / (b + x)$

- a , b = values given in the tables
- x = distance from the point of application of the load to the shaft shoulder



| NMRV NMRV-P | 025 | 030 | 040 | 050 | 063 | 075 | 090 | 110 | 130 | 150 |
|--------------------|------|------|------|------|------|------|------|------|------|------|
| a | 1.97 | 2.56 | 3.31 | 3.98 | 4.72 | 5.16 | 6.38 | 6.93 | 7.40 | 8.46 |
| b | 1.50 | 1.97 | 2.52 | 2.99 | 3.74 | 3.98 | 4.80 | 5.35 | 5.83 | 6.85 |
| Fr2 max(**) | 303 | 411 | 785 | 1088 | 1410 | 1659 | 1839 | 2698 | 3035 | 4047 |

| SW | 030 | 040 | 050 | 063 | 075 | 090 | 105 |
|--------------------|------|------|------|------|------|------|------|
| a | 2.56 | 3.31 | 3.98 | 4.72 | 5.16 | 6.38 | 6.93 |
| b | 1.97 | 2.52 | 2.99 | 3.74 | 3.98 | 4.80 | 5.35 |
| Fr2 max(**) | 411 | 785 | 1088 | 1410 | 1659 | 1839 | 2320 |

(**Fr2 max) Max admissible value of the reducer in static conditions and/or for limited operations. For continuous overhung loads please check the values on the performances tables calculated according to the casing, the shaft and bearings.

2.12.1 Information

In cases of ambient temperatures not envisaged in the table, call our Technical Service. In the case of temperatures under -22°F or over 140°F it is necessary to use oil seals with special properties. For operating ranges with temperatures under 32°F it is necessary to consider the following:

1. The motors need to be suitable for operation at the envisaged ambient temperature.
2. The power of the electric motor needs to be adequate for exceeding the higher starting torques required.
3. In case of cast-iron gear reducers, pay attention to impact loads since cast iron may have problems of fragility at temperatures under 5°F.
4. During the early stages of service, problems of lubrication may arise due to the high level of viscosity taken on by the oil and so it is wise to have a few minutes of rotation under no load.

Oil must be changed after approx. 10000 hours/2 years of operation; this time varies based on the type of service and on the environment inside which the gear reducer is installed. Units not featuring any oil plug are life-lubricated, and therefore maintenance-free.

2.12.2 Lubricants

Specifications of lubricants recommended by Motovario.

All units are supplied with LAND OIL oil, unless otherwise specified by the client.

| | HA31 | NMRV 025 ÷ 150 NMRV-P 063 ÷ 110 SW 030 ÷ 105 HW 030 ÷ 040 SW-CD/A 030 ÷ 090 SW-CD/C 030 ÷ 090 | SW-CD/D 030 ÷ 090 |
|----------------------------|-----------------------------|--|----------------------------|
| | Mineral oil | Synthetic oil | Synthetic oil |
| T _{amb} °F ISO | (+23) - (+104) ISO VG220 | (-13) - (+122) ISO VG320 | (+5) ÷ (+104) ISO VG320 |
| LAND OIL | GEAR POWER 220 | GEAR SINT 320 | - |
| ENI | BLASIA 220 | TELIUM VSF320 | - |
| SHELL | OMALA OIL220 | OMALA S4 WE320 | - |
| KLUBER | Kluberoil GEM 1-220N | Klubersynth GH 6-320 | Klubersynth UH1 6-320 |
| MOBIL | MOBILGEAR 600 XP220 | - | - |
| CASTROL | ALPHA SP 220 | ALPHASYN PG320 | - |
| BP | ENERGOL GR-XP220 | ENERGOL SG-XP320 | - |
| PETRONAS | GEAR MEP 220 | GEAR SYN PAG 320 | - |

2.12.3 Special lubricants

| | $T_{amb}^{\circ F}$ | Polyglycol synthetic oil |
|--------|---------------------|---|
| ENI | (-22) - (+86) | Blasia S 150 (ISO VG150) |
| | (-4) - (+104) | Blasia S 220 (ISO VG220) |
| KLUBER | (-40) - (+41) | Klubersynth GH 6-32 (ISO VG32) |
| | (-31) - 50) | Klubersynth GH 6-80 (ISO VG80) |
| | (-22) - (+104) | Klubersynth GH 6-150 (ISO VG150) |
| | (-13) - (+104) | Klubersynth GH 6-220 (ISO VG220) |
| | (+5) - (+122) | Klubersynth GH 6-460 (ISO VG460) |
| | (+14) - (+158) | Klubersynth GH 6-680 (ISO VG680) |
| | $T_{amb}^{\circ F}$ | Polyglycol synthetic oil for food grade |
| KLUBER | (-22) - (+59) | Klubersynth UH1-6 100 (ISO VG100) |
| | (-13) - (+104) | Klubersynth UH1-6 220 (ISO VG220) |
| | (+5) - (+104) | Klubersynth UH1-6 320 (ISO VG320) |
| | (+5) - (+122) | Klubersynth UH1-6 460 (ISO VG460) |
| | (+14) - (+122) | Klubersynth UH1-6 680 (ISO VG680) |

If 'special' lubricant is required please contact for Technical Assistance.

2.12.4 Quantity

- The gear reducers size 025 - 030 - 040 - 050 - 063 - 075 - 090 - 105 - 110 - 130 - 150 are supplied complete with lubricant for life, synthetic oil, LAND OIL GEAR SINT. They can be mounted in any position envisaged in the catalogue, except for NMRV-P/SW 090 - 110 and NRV-P/ISW 075-090-110 for which you must to specify the mounting position.
- For sizes 130 and 150 it is necessary to specify the position, otherwise the gear reducers are supplied with the quantity of oil relating to pos. B3.
- Only reduction units 130 and 150 are fitted with breather, level and oil drainage plugs.
- The pre-stage helical modules are supplied complete with life-long lubricant, synthetic oil, LAND OIL GEAR SINT. Lubrication is separated from that of the worm gear reducers.

It is recommended, after installation, to replace the closed plug used for transportation with the supplied breather plug.

Quantity of oil in litres ~

| NMRV | 025 | 030 | 040 | 050 | 130 | 150 |
|-------|------|------|------|------|-----|-----|
| B3 | | | | | 4,5 | 7 |
| B8 | | | | | 3,3 | 5,1 |
| B6-B7 | 0,02 | 0,04 | 0,08 | 0,15 | 3,5 | 5,4 |
| V5 | | | | | 4,5 | 7 |
| V6 | | | | | 3,3 | 5,1 |

| NMRV-P | 063 | 075 | 090 | 110 |
|--------|------|------|------|-----|
| B3 | | | | |
| B8 | | | | |
| B6-B7 | 0,33 | 0,55 | 1,15 | 1,6 |
| V5 | | | | |
| V6 | | | | |

| SW | 030 | 040 | 050 | 063 | 075 | 090 | 105 |
|-------|------|------|------|-----|------|-----|-----|
| B3 | | | | | | | |
| B8 | | | | | | | |
| B6-B7 | 0,04 | 0,08 | 0,15 | 0,3 | 0,55 | 1 | 1,6 |
| V5 | | | | | | | |
| V6 | | | | | | | |

| HW | HW030 | | HW040 | |
|-------------------|-----------|-----------|-----------|-----------|
| | NMRV-P063 | NMRV-P075 | NMRV-P090 | NMRV-P110 |
| B3-B6-B7-B8-V5-V6 | 0,06 | 0,09 | 0,11 | 0,12 |

| H | A31 |
|-------|------|
| B3-B5 | 0,07 |

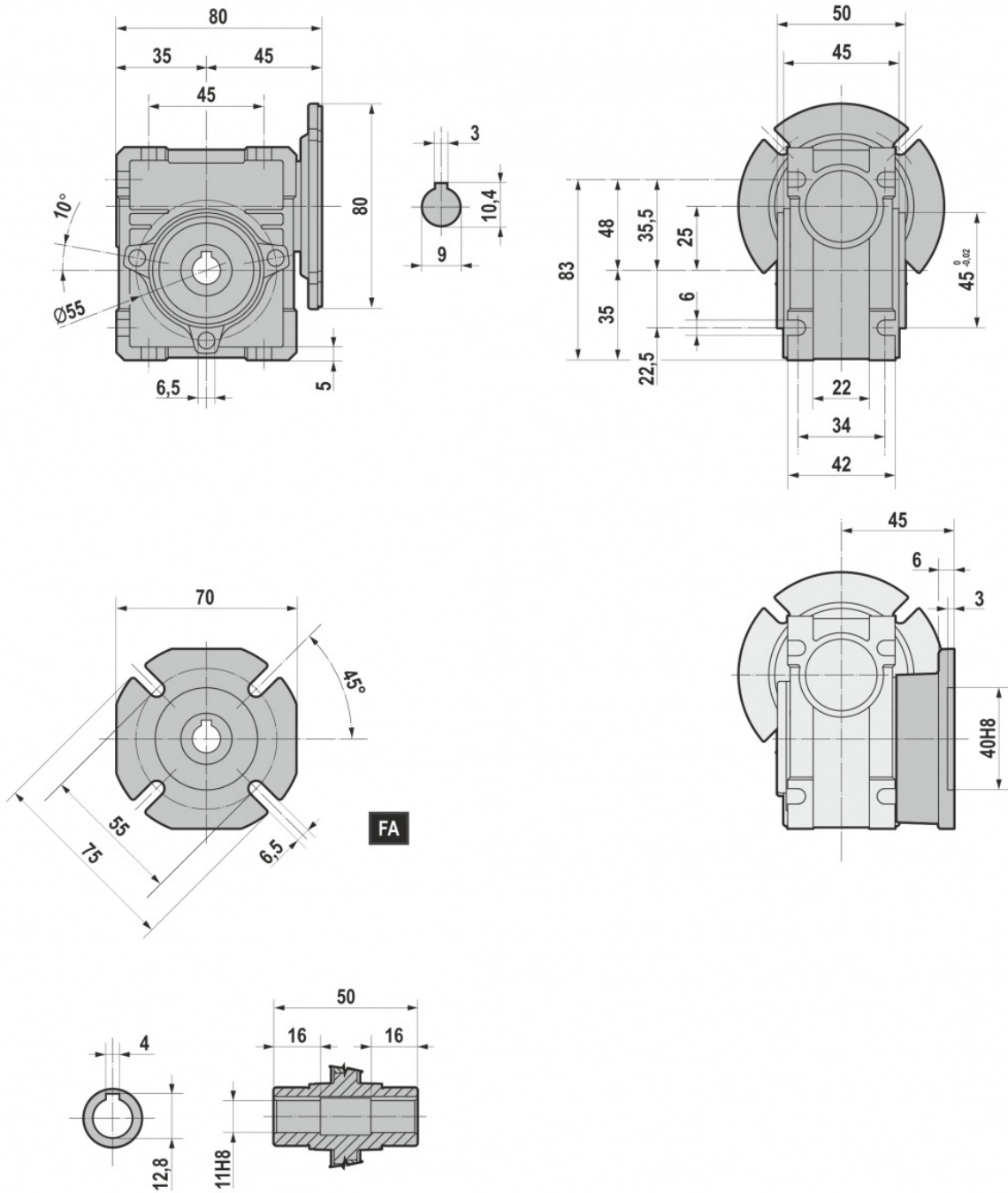
The following values of J1 moment of inertia are only estimated, referred to the maximum calculated, and to the gearbox input side.

| NMRV-SW | J ₁ [Kg*m ²] | J ₁ [lb*in ²] |
|---------|-------------------------------------|--------------------------------------|
| 025 | 0.000003 | 0.0107 |
| 030 | 0.00001 | 0.0347 |
| 040 | 0.00003 | 0.1015 |
| 050 | 0.0001 | 0.2879 |
| 063 | 0.0002 | 0.6268 |
| 075 | 0.0003 | 1.1354 |
| 090 | 0.0005 | 1.8297 |
| 105 | 0.0014 | 4.7709 |
| 130 | 0.0022 | 7.6877 |
| 150 | 0.0053 | 18.0689 |

| NMRV-P | J ₁ [Kg*m ²] | J ₁ [lb*in ²] |
|--------|-------------------------------------|--------------------------------------|
| 063 | 0.0002 | 0.7603 |
| 075 | 0.0004 | 1.5086 |
| 090 | 0.0008 | 2.7864 |
| 110 | 0.0020 | 6.8043 |

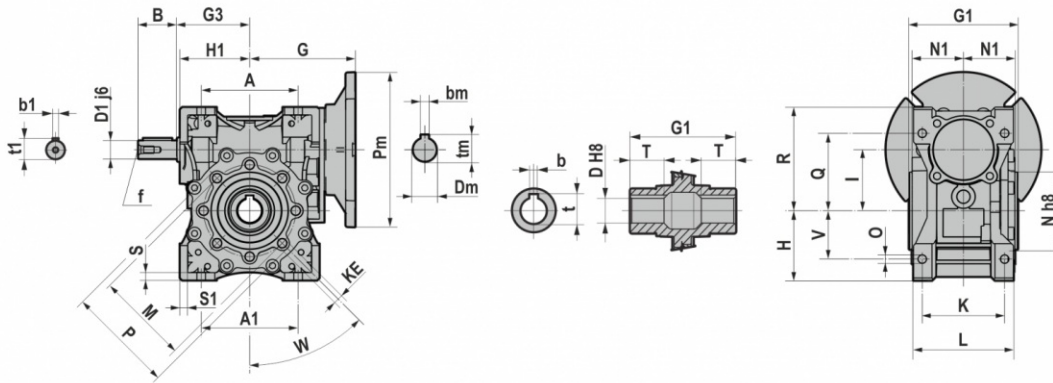
| HA-1 | J ₁ [Kg*m ²] | J ₁ [lb*in ²] |
|------|-------------------------------------|--------------------------------------|
| A31 | 0.0001 | 0.3313 |

3.1.1 NMRV 025



The above values are expressed in millimeters

3.1.2 NMRV 030-150

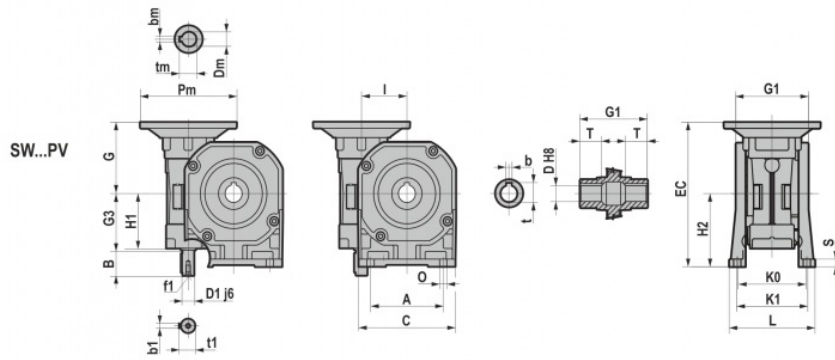
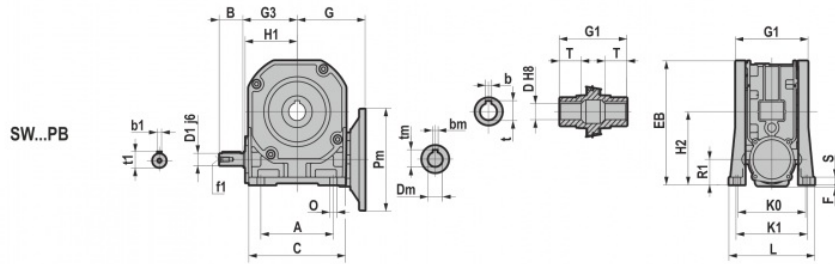
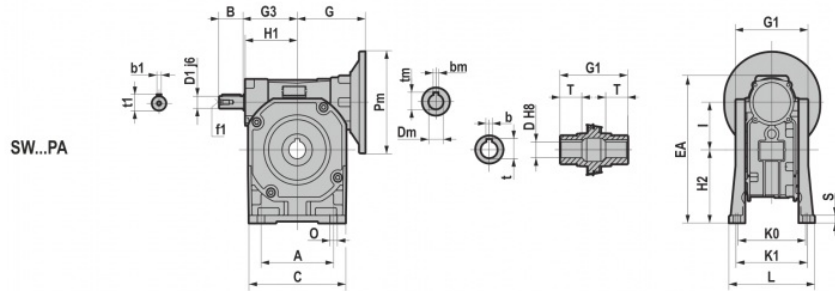
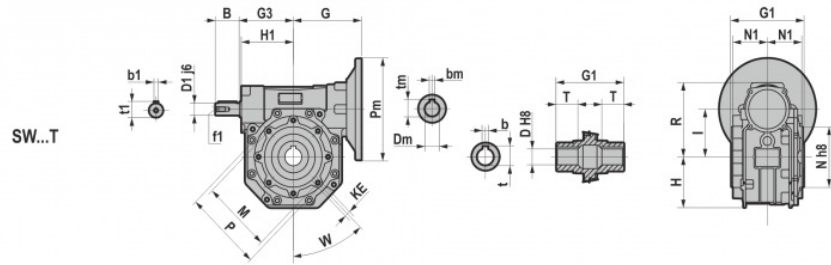


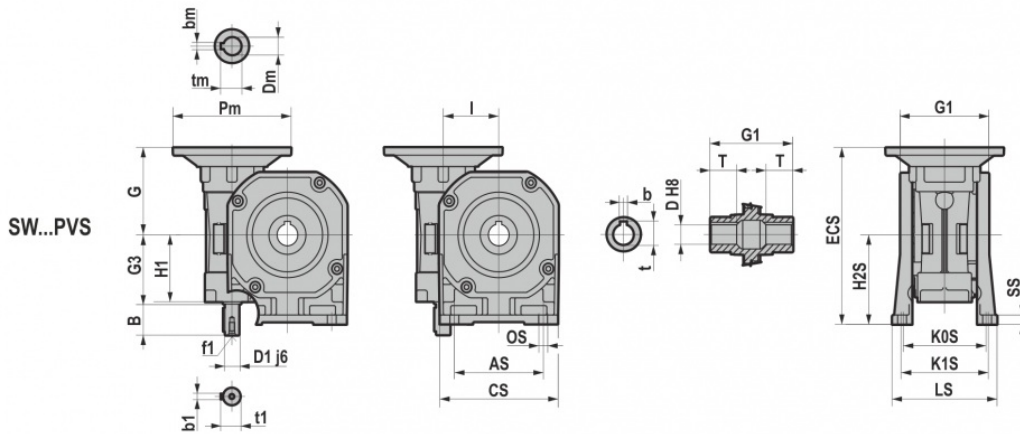
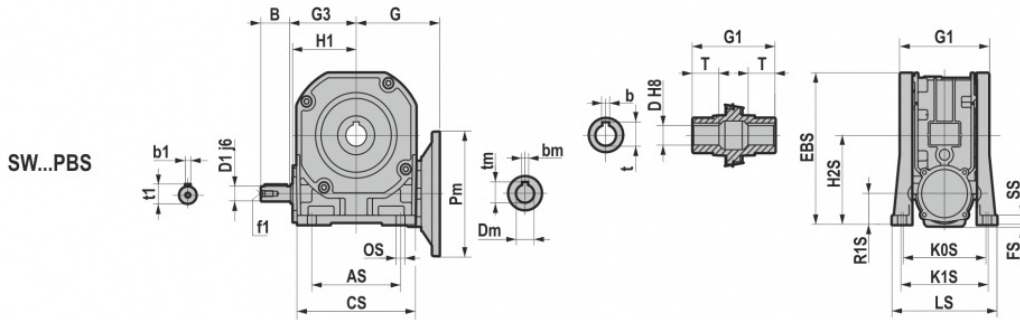
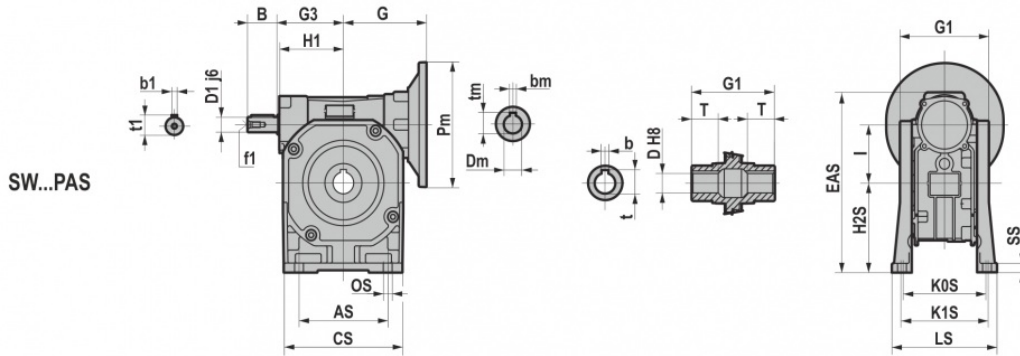
| | 030 | 040 | 050 | 063 | 075 | 090 | 110 | 130 | 150 |
|--------------------------|-------|-------|--------|--------|-------------------------------------|-------------------------------------|------------------------------|--------|--------|
| A | 2.13 | 2.76 | 3.15 | 3.94 | 4.72 | 5.51 | 6.69 | 7.87 | 9.45 |
| A1 | 2.13 | 2.76 | 3.15 | 3.94 | 4.72 | 5.51 | 6.46 - 6.69 | 7.87 | 9.45 |
| B | 1.18 | 1.18 | 1.57 | 1.97 | 2.36 | 2.36 | 2.76 | 3.15 | 3.15 |
| D1 +0/-0.0005 | 0.38 | 0.50 | 0.63 | 0.75 | 0.88 | 0.88 | 1.13 | 1.25 | 1.38 |
| G | 2.64 | 3.15 | 3.54 | 4.82 | 5.51 (56C/140TC) 5.89 (180TC) | 6.24 (56C/140TC) 6.63 (180TC) | 6.24 (140TC) 7.15 (180TC) | 7.60 | 8.46 |
| G1 | 2.48 | 3.07 | 3.62 | 4.41 | 4.72 | 5.51 | 6.10 | 6.69 | 7.87 |
| G3 | 1.77 | 2.09 | 2.52 | 2.95 | 3.54 | 4.25 | 5.31 | 6.10 | 6.89 |
| H | 1.57 | 1.97 | 2.36 | 2.83 | 3.39 | 4.06 | 5.02 | 5.81 | 6.69 |
| H1 | 1.57 | 1.97 | 2.36 | 2.83 | 3.50 | 4.06 | 5.02 | 5.81 | 6.69 |
| I | 1.18 | 1.57 | 1.97 | 2.48 | 2.95 | 3.54 | 4.33 | 5.12 | 5.91 |
| K | 1.73 | 2.36 | 2.76 | 3.35 | 3.54 - 3.74 | 3.94 | 4.53 | 4.72 | 5.71 |
| KE | M6*11 | M6*11 | M8*10 | M8*14 | M8*14 | M10*18 | M10*18 | M12*21 | M12*21 |
| L | 2.20 | 2.80 | 3.35 | 4.06 | 4.41 | 5.12 | 5.67 | 6.10 | 7.28 |
| M | 2.56 | 2.95 | 3.35 | 3.74 | 4.53 | 5.12 | 6.50 | 8.46 | 8.46 |
| N | 2.17 | 2.36 | 2.76 | 3.15 | 3.74 | 4.33 | 5.12 | 7.09 | 7.09 |
| N1 | 1.14 | 1.44 | 1.71 | 2.09 | 2.24 | 2.64 | 2.91 | 3.19 | 3.78 |
| O | 0.26 | 0.26 | 0.33 | 0.33 | 0.43 | 0.51 | 0.55 | 0.63 | 0.71 |
| P | 2.95 | 3.43 | 3.94 | 4.33 | 5.16 | 6.30 | 7.87 | 9.84 | 9.84 |
| Q | 1.73 | 2.17 | 2.52 | 3.15 | 3.66 | 4.02 | 4.92 | 5.51 | 7.09 |
| R | 2.24 | 2.81 | 3.31 | 4.21 | 4.84 | 5.67 | 6.59 | 7.38 | 9.06 |
| S | 0.22 | 0.26 | 0.28 | 0.31 | 0.39 | 0.43 | 0.57 | 0.61 | 0.71 |
| S1 | 0.22 | 0.26 | 0.28 | 0.31 | 0.51 | 0.43 | 0.57 | 0.61 | 0.71 |
| V | 1.06 | 1.38 | 1.57 | 1.97 | 2.36 | 2.76 | 3.23 - 3.35 | 3.94 | 4.72 |
| W | 0 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
| b1 | 0.09 | 0.125 | 0.1875 | 0.1875 | 0.1875 | 0.1875 | 0.250 | 0.250 | 0.31 |
| t1 | 0.42 | 0.55 | 0.70 | 0.83 | 0.96 | 0.96 | 1.24 | 1.36 | 1.15 |
| f1 | - | - | 1/4-20 | 1/4-20 | 1/4-20 | 1/4-20 | 3/8-16 | 1/2-13 | 1/2-13 |

| | D +0.001/-0 | b | t | T |
|------------|----------------|-------|------|------|
| 030 | 0.625 | 0.188 | 0.71 | 0.83 |
| 040 | 0.750 | 0.188 | 0.84 | 1.02 |
| 050 | 1.000 | 0.250 | 1.11 | 1.18 |
| 063 | 1.125 | 0.250 | 1.24 | 1.42 |
| 075 | 1.250 | 0.250 | 1.37 | 1.57 |
| 090 | 1.375 | 0.313 | 1.52 | 1.77 |
| 110 | 1.625 | 0.375 | 1.80 | 1.97 |
| 130 | 1.750 | 0.375 | 1.92 | 2.36 |
| 150 | 2.000 | 0.500 | 2.22 | 2.85 |

| NEMA | Pm | Dm | tm | bm |
|--------------|------|-------|------|--------|
| 48C | 5.63 | 0.50 | 0.56 | 0.1250 |
| 56C | 6.69 | 0.625 | 0.71 | 0.1875 |
| 140TC | 6.69 | 0.875 | 0.97 | 0.1875 |
| 180TC | 9.06 | 1.125 | 1.24 | 0.2500 |
| 210TC | 9.06 | 1.375 | 1.52 | 0.3125 |
| 250TC | 9.06 | 1.625 | 1.80 | 0.3750 |

3.1.3 SW





3.1 REDUCERS/GEARED MOTORS

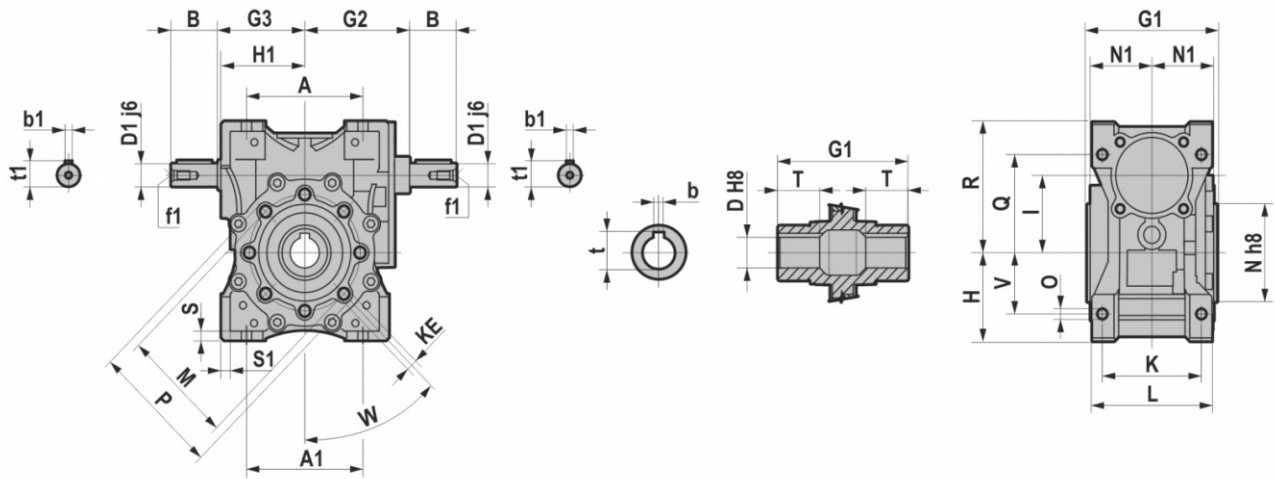
| | | 030 | 040 | 050 | 063 | 075 | 090 | 105 |
|---|---------------|-------|-------|-------|-------|-------|--------|--------|
| ...T ...PA ...PB ...PV ...PAS ...PBS ...PVS | G | 2.17 | 2.76 | 3.15 | 3.74 | 4.43 | 5.10 | 6.30 |
| | G1 | 2.48 | 3.07 | 3.62 | 4.41 | 4.72 | 5.51 | 6.10 |
| | G3 | 1.77 | 2.09 | 2.52 | 2.95 | 3.54 | 4.25 | 5.31 |
| | H | 1.48 | 1.65 | 2.05 | 2.60 | 3.15 | 3.82 | 4.53 |
| | H1 | 1.57 | 1.97 | 2.36 | 2.83 | 3.39 | 4.06 | 5.02 |
| | I | 1.18 | 1.57 | 1.97 | 2.48 | 2.95 | 3.54 | 4.33 |
| | KE | M6*11 | M6*11 | M8*10 | M8*14 | M8*14 | M10*18 | M10*18 |
| | M | 2.56 | 2.95 | 3.35 | 3.74 | 4.53 | 5.12 | 6.50 |
| | N | 2.17 | 2.36 | 2.76 | 3.15 | 3.74 | 4.33 | 5.12 |
| | N1 | 1.14 | 1.44 | 1.71 | 2.09 | 2.24 | 2.64 | 2.91 |
| | P | 2.95 | 3.43 | 3.84 | 4.33 | 5.12 | 5.83 | 7.87 |
| | R | 2.24 | 2.76 | 3.31 | 4.02 | 4.61 | 5.24 | 6.54 |
| | W | 3.54 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 |
| | B | 0.79 | 0.91 | 1.18 | 1.57 | 1.97 | 1.97 | 2.36 |
| | D1 +0/-0.0005 | 0.35 | 0.43 | 0.55 | 0.75 | 0.94 | 0.94 | 1.10 |
| | b1 | 0.12 | 0.16 | 0.20 | 0.24 | 0.31 | 0.31 | 0.31 |
| t1 | 0.40 | 0.49 | 0.63 | 0.85 | 1.06 | 1.06 | 1.06 | |
| f1 | / | / | M6 | M6 | M8 | M8 | M10 | |

| | D +0.001/-0 | b | t | T |
|-----|-------------|-------|------|------|
| 030 | 0.625 | 0.188 | 0.71 | 0.83 |
| 040 | 0.750 | 0.188 | 0.84 | 1.02 |
| 050 | 1.000 | 0.250 | 1.11 | 1.18 |
| 063 | 1.125 | 0.250 | 1.24 | 1.42 |
| 075 | 1.250 | 0.250 | 1.37 | 1.57 |
| 090 | 1.375 | 0.313 | 1.52 | 1.77 |
| 105 | 1.625 | 0.375 | 1.80 | 1.97 |

| NEMA | Pm | Dm | tm | bm |
|-------|------|-------|------|--------|
| 48C | 5.63 | 0.50 | 0.56 | 0.1250 |
| 56C | 6.69 | 0.625 | 0.71 | 0.1875 |
| 140TC | 6.69 | 0.875 | 0.97 | 0.1875 |
| 180TC | 9.06 | 1.125 | 1.24 | 0.2500 |
| 210TC | 9.06 | 1.375 | 1.52 | 0.3125 |
| 250TC | 9.06 | 1.625 | 1.80 | 0.3750 |

| | | 030 | 040 | 050 | 063 | 075 | 090 | 105 | |
|-------------------------|----------------------------|------|------|------|------|------|-------|-------|-------|
| ...PA ...PB ...PV | A | 1.97 | 2.05 | 2.48 | 3.74 | 4.72 | 5.51 | 7.87 | |
| | C | 3.15 | 3.54 | 4.33 | 5.51 | 6.30 | 7.87 | 9.84 | |
| | EA | 4.41 | 5.59 | 6.54 | 7.95 | 9.13 | 10.83 | 13.31 | |
| | EB | 3.80 | 4.61 | 5.39 | 6.69 | 7.72 | 9.53 | 11.56 | |
| | EC | 4.33 | 5.59 | 6.38 | 7.68 | 8.96 | 10.69 | 13.07 | |
| | F | 0.08 | / | 0.08 | 0.08 | 0.08 | / | / | |
| | H2 | 2.17 | 2.83 | 3.23 | 3.94 | 4.53 | 5.59 | 6.77 | |
| | KO | 2.60 | 3.19 | 3.88 | 4.37 | 4.53 | 5.51 | 6.30 | |
| | K1 | / | / | / | / | / | 5.75 | 7.13 | |
| | L | 3.15 | 3.86 | 4.88 | 5.43 | 5.59 | 7.09 | 8.19 | |
| | O | 0.28 | 0.35 | 0.35 | 0.47 | 0.47 | 0.51 | 0.51 | |
| | R1 | 1.18 | 1.26 | 1.26 | 1.46 | 1.57 | 2.05 | 2.44 | |
| | S | 0.28 | 0.35 | 0.39 | 0.39 | 0.47 | 0.55 | 0.71 | |
| | ...PAS ...PBS ...PVS | AS | / | 2.76 | 3.35 | / | / | 6.30 | 7.87 |
| | | CS | / | 3.78 | 4.41 | / | / | 8.27 | 9.84 |
| | | EAS | / | 5.55 | 6.65 | / | / | 11.14 | 13.23 |
| EBS | | / | 4.57 | 5.55 | / | / | 9.84 | 11.48 | |
| ECS | | / | 5.55 | 6.50 | / | / | 11.00 | 12.99 | |
| FS | | / | / | / | / | / | / | / | |
| H2S | | / | 2.80 | 3.35 | / | / | 5.91 | 6.69 | |
| KOS | | / | 3.31 | 3.78 | / | / | 6.46 | 6.30 | |
| K1S | | / | / | 3.90 | / | / | / | 7.13 | |
| LS | | / | 3.94 | 4.57 | / | / | 7.68 | 8.19 | |
| OS | | / | 0.28 | 0.35 | / | / | 0.51 | 0.51 | |
| R1S | | / | 1.22 | 1.38 | / | / | 2.36 | 2.36 | |
| SS | | / | 0.35 | 0.39 | / | / | 0.55 | 0.63 | |

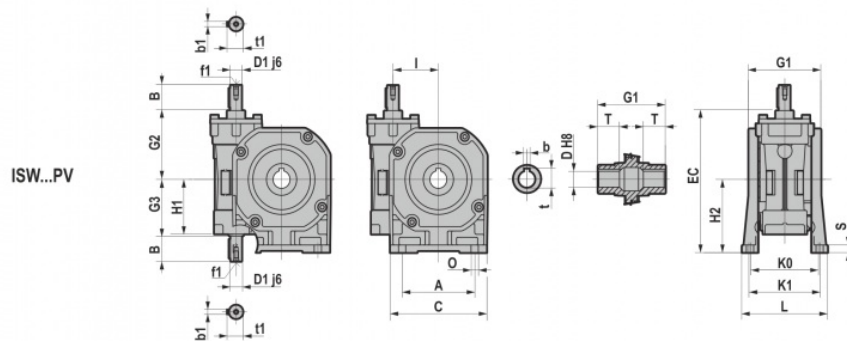
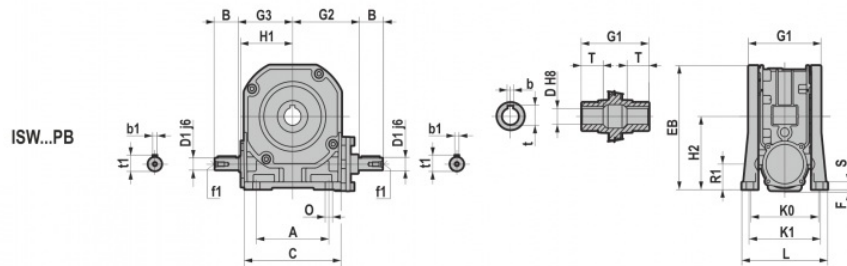
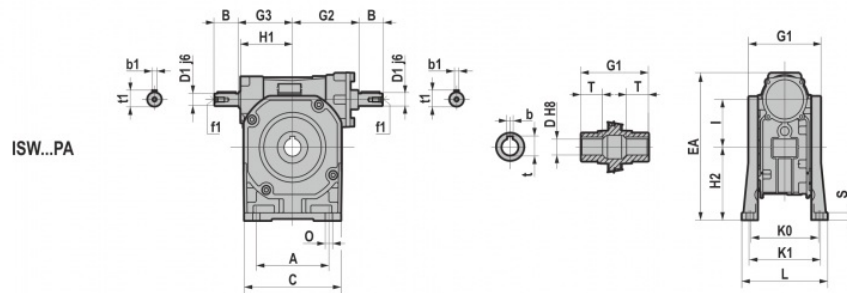
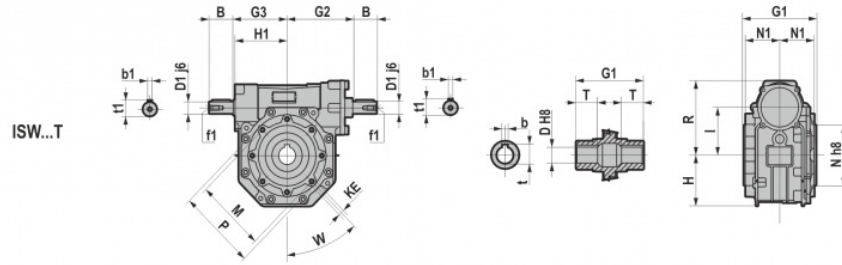
3.1.4 NRV

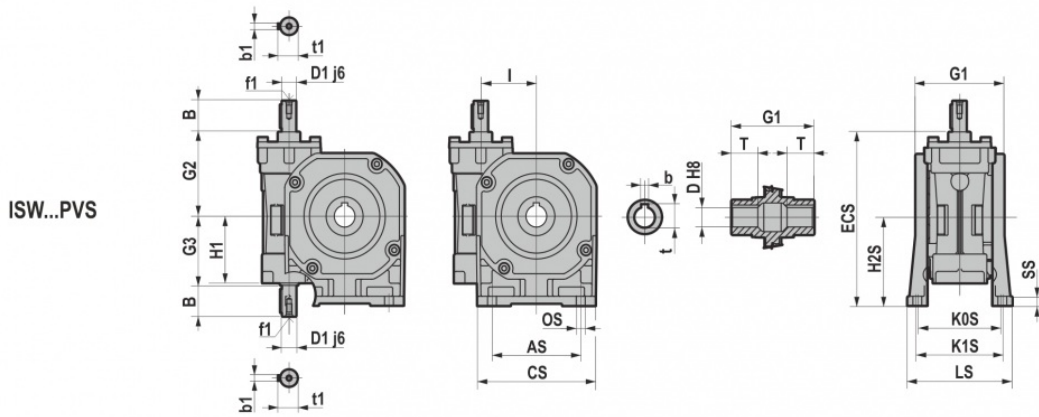
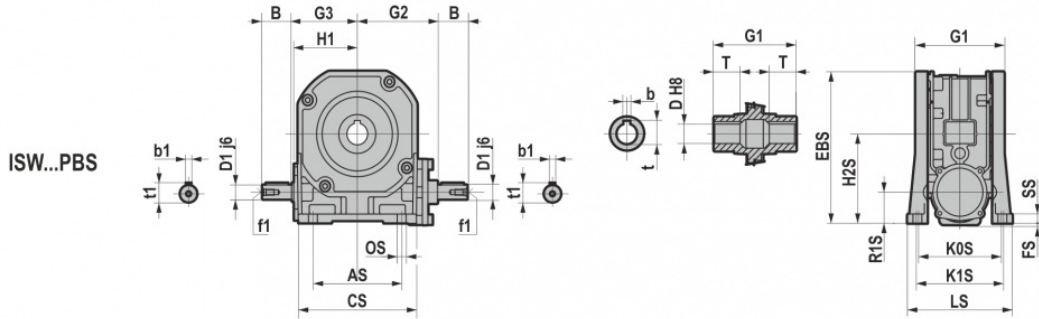
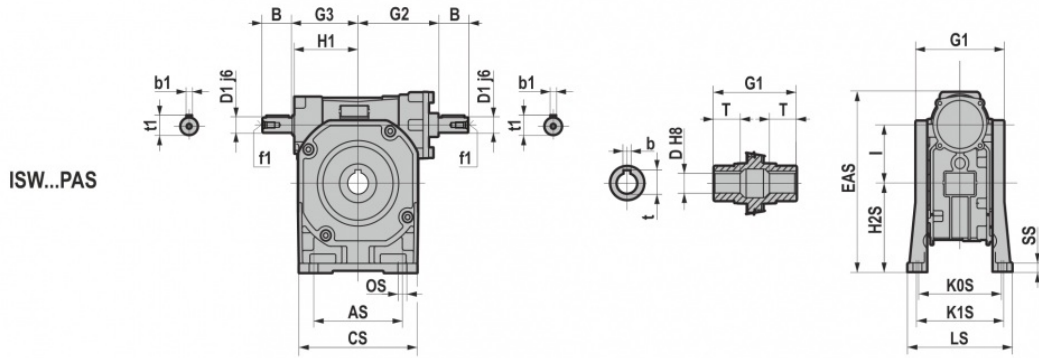


| | 030 | 040 | 050 | 063 | 075 | 090 | 110 | 130 | 150 |
|----------------------|---------|-------|--------|--------|-------------|--------|-------------|--------|--------|
| A | 2.13 | 2.76 | 3.15 | 3.94 | 4.72 | 5.51 | 6.69 | 7.87 | 9.45 |
| A1 | 2.13 | 2.76 | 3.15 | 3.94 | 4.72 | 5.51 | 6.46 - 6.69 | 7.87 | 9.45 |
| B | 1.18 | 1.18 | 1.57 | 1.97 | 2.36 | 2.36 | 2.76 | 3.15 | 3.15 |
| D1 +0/-0.0005 | 0.375 | 0.500 | 0.625 | 0.750 | 0.875 | 0.875 | 1.125 | 1.250 | 1.375 |
| G1 | 2.48 | 3.07 | 3.62 | 4.41 | 4.72 | 5.51 | 6.10 | 6.69 | 7.87 |
| G2 | 2.01 | 2.36 | 2.91 | 3.54 | 4.13 | 4.92 | 5.59 | 6.38 | 7.68 |
| G3 | 1.77 | 2.09 | 2.52 | 2.95 | 3.54 | 4.25 | 5.31 | 6.10 | 6.89 |
| H | 1.57 | 1.97 | 2.36 | 2.83 | 3.39 | 4.06 | 5.02 | 5.81 | 6.69 |
| H1 | 1.57 | 1.97 | 2.36 | 2.83 | 3.50 | 4.06 | 5.02 | 5.81 | 6.69 |
| I | 1.18 | 1.57 | 1.97 | 2.48 | 2.95 | 3.54 | 4.33 | 5.12 | 5.91 |
| K | 1.73 | 2.36 | 2.76 | 3.35 | 3.54 - 3.74 | 3.94 | 4.53 | 4.72 | 5.71 |
| KE | M6*11 | M6*11 | M8*10 | M8*14 | M8*14 | M10*18 | M10*18 | M12*21 | M12*21 |
| L | 2.20 | 2.80 | 3.35 | 4.06 | 4.41 | 5.12 | 5.67 | 6.10 | 7.28 |
| M | 2.56 | 2.95 | 3.35 | 3.74 | 4.53 | 5.12 | 6.50 | 8.46 | 8.46 |
| N | 2.17 | 2.36 | 2.76 | 3.15 | 3.74 | 4.33 | 5.12 | 7.09 | 7.09 |
| N1 | 1.14 | 1.44 | 1.71 | 2.09 | 2.24 | 2.64 | 2.91 | 3.19 | 3.78 |
| O | 0.26 | 0.26 | 0.33 | 0.33 | 0.43 | 0.51 | 0.55 | 0.63 | 0.71 |
| P | 2.95 | 3.43 | 3.94 | 4.33 | 5.16 | 6.30 | 7.87 | 9.84 | 9.84 |
| Q | 1.73 | 2.17 | 2.52 | 3.15 | 3.66 | 4.02 | 4.92 | 5.51 | 7.09 |
| R | 2.24 | 2.81 | 3.31 | 4.21 | 4.84 | 5.67 | 6.59 | 7.38 | 9.06 |
| S | 0.22 | 0.26 | 0.28 | 0.31 | 0.39 | 0.43 | 0.57 | 0.61 | 0.71 |
| S1 | 0.22 | 0.26 | 0.28 | 0.31 | 0.51 | 0.43 | 0.57 | 0.61 | 0.71 |
| V | 1.06 | 1.38 | 1.57 | 1.97 | 2.36 | 2.76 | 3.23 - 3.35 | 3.94 | 4.72 |
| W | 0 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
| b1 | 0.09375 | 0.125 | 0.1875 | 0.1875 | 0.1875 | 0.1875 | 0.250 | 0.250 | 0.3125 |
| t1 | 0.42 | 0.55 | 0.7 | 0.83 | 0.96 | 0.96 | 1.24 | 1.36 | 1.15 |
| f1 | - | - | 1/4-20 | 1/4-20 | 1/4-20 | 1/4-20 | 3/8-16 | 1/2-13 | 1/2-13 |

| | D +0,001/-0 | b | t | T |
|------------|-------------|-------|------|------|
| 030 | 0.625 | 0.188 | 0.71 | 0.83 |
| 040 | 0.750 | 0.188 | 0.84 | 1.02 |
| 050 | 1.000 | 0.250 | 1.11 | 1.18 |
| 063 | 1.125 | 0.250 | 1.24 | 1.42 |
| 075 | 1.250 | 0.250 | 1.37 | 1.57 |
| 090 | 1.375 | 0.313 | 1.52 | 1.77 |
| 110 | 1.625 | 0.375 | 1.80 | 1.97 |
| 130 | 1.750 | 0,375 | 1.92 | 2.36 |
| 150 | 2.000 | 0.500 | 2.22 | 2.85 |

3.1.5 ISW





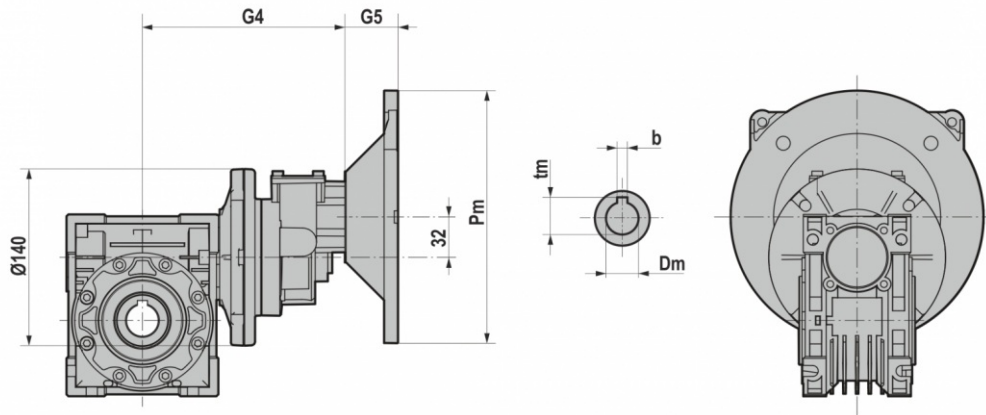
3.1 REDUCERS/GEARED MOTORS

| | | 030 | 040 | 050 | 063 | 075 | 090 | 105 |
|---|---------------|-------|-------|-------|-------|-------|--------|--------|
| ...T ...PA ...PB ...PV ...PAS ...PBS ...PVS | G1 | 2.48 | 3.07 | 3.62 | 4.41 | 4.72 | 5.51 | 6.10 |
| | G2 | 2.01 | 2.36 | 2.91 | 3.54 | 4.13 | 4.92 | 5.59 |
| | G3 | 1.77 | 2.09 | 2.52 | 2.95 | 3.54 | 4.25 | 5.31 |
| | H | 1.48 | 1.65 | 2.05 | 2.60 | 3.15 | 3.82 | 4.53 |
| | H1 | 1.57 | 1.97 | 2.36 | 2.83 | 3.39 | 4.06 | 5.02 |
| | I | 1.18 | 1.57 | 1.97 | 2.48 | 2.95 | 3.54 | 4.33 |
| | KE | M6*11 | M6*11 | M8*10 | M8*14 | M8*14 | M10*18 | M10*18 |
| | M | 2.56 | 2.95 | 3.35 | 3.74 | 4.53 | 5.12 | 6.50 |
| | N | 2.17 | 2.36 | 2.76 | 3.15 | 3.74 | 4.33 | 5.12 |
| | N1 | 1.14 | 1.44 | 1.71 | 2.09 | 2.24 | 2.64 | 2.91 |
| | P | 2.95 | 3.43 | 3.84 | 4.33 | 5.12 | 5.83 | 7.87 |
| | R | 2.24 | 2.76 | 3.31 | 4.02 | 4.61 | 5.24 | 6.54 |
| | W | 3.54 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 |
| | B | 0.79 | 0.91 | 1.18 | 1.57 | 1.97 | 1.97 | 2.36 |
| | D1 +0/-0,0005 | 0.35 | 0.43 | 0.55 | 0.75 | 0.94 | 0.94 | 1.10 |

| | D +0.001/-0 | b | t | T |
|-----|-------------|-------|------|------|
| 030 | 0.625 | 0.188 | 0.71 | 0.83 |
| 040 | 0.750 | 0.188 | 0.84 | 1.02 |
| 050 | 1.000 | 0.250 | 1.11 | 1.18 |
| 063 | 1.125 | 0.250 | 1.24 | 1.42 |
| 075 | 1.250 | 0.250 | 1.37 | 1.57 |
| 090 | 1.375 | 0.313 | 1.52 | 1.77 |
| 105 | 1.625 | 0.375 | 1.80 | 1.97 |

| | | 030 | 040 | 050 | 063 | 075 | 090 | 105 | |
|-------------------------|----------------------------|------|------|------|------|------|-------|-------|------|
| ...PA ...PB ...PV | A | 1.97 | 2.05 | 2.48 | 3.74 | 4.72 | 5.51 | 7.87 | |
| | C | 3.15 | 3.54 | 4.33 | 5.51 | 6.30 | 7.87 | 9.84 | |
| | EA | 4.41 | 5.59 | 6.54 | 7.95 | 9.13 | 10.83 | 13.31 | |
| | EB | 3.80 | 4.61 | 5.39 | 6.69 | 7.72 | 9.53 | 11.56 | |
| | EC | 4.33 | 5.59 | 6.38 | 7.68 | 8.96 | 10.69 | 13.07 | |
| | F | 0.08 | / | 0.08 | 0.08 | 0.08 | / | / | |
| | H2 | 2.17 | 2.83 | 3.23 | 3.94 | 4.53 | 5.59 | 6.77 | |
| | KO | 2.60 | 3.19 | 3.88 | 4.37 | 4.53 | 5.51 | 6.30 | |
| | K1 | / | / | / | / | / | 5.75 | 7.13 | |
| | L | 3.15 | 3.86 | 4.88 | 5.43 | 5.59 | 7.09 | 8.19 | |
| | O | 0.28 | 0.35 | 0.35 | 0.47 | 0.47 | 0.51 | 0.51 | |
| | R1 | 1.18 | 1.26 | 1.26 | 1.46 | 1.57 | 2.05 | 2.44 | |
| | S | 0.28 | 0.35 | 0.39 | 0.39 | 0.47 | 0.55 | 0.71 | |
| | ...PAS ...PBS ...PVS | AS | / | 2.76 | 3.35 | / | / | 6.30 | 7.87 |
| | | CS | / | 3.78 | 4.41 | / | / | 8.27 | 9.84 |
| EAS | | / | 5.55 | 6.65 | / | / | 11.14 | 13.23 | |
| EBS | | / | 4.57 | 5.55 | / | / | 9.84 | 11.48 | |
| ECS | | / | 5.55 | 6.50 | / | / | 11.00 | 12.99 | |
| FS | | / | / | / | / | / | / | / | |
| H2S | | / | 2.80 | 3.35 | / | / | 5.91 | 6.69 | |
| KOS | | / | 3.31 | 3.78 | / | / | 6.46 | 6.30 | |
| K1S | | / | / | 3.90 | / | / | / | 7.13 | |
| LS | | / | 3.94 | 4.57 | / | / | 7.68 | 8.19 | |
| OS | | / | 0.28 | 0.35 | / | / | 0.51 | 0.51 | |
| R1S | | / | 1.22 | 1.38 | / | / | 2.36 | 2.36 | |
| SS | | / | 0.35 | 0.39 | / | / | 0.55 | 0.63 | |

3.1.6 HA31+NMRV

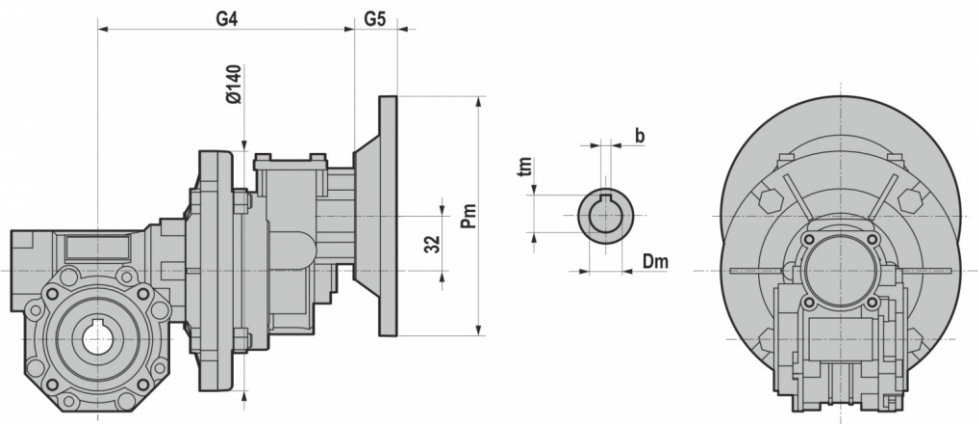


Dimensions Ø140 and 32 are in mm

| | NMRV040 | | NMRV050 | |
|------------|---------|------|---------|------|
| | G4 | G5 | G4 | G5 |
| 063 | 5.91 | 0.98 | 6.30 | 0.98 |
| 071 | 5.91 | 1.26 | 6.30 | 1.26 |
| 080 | 5.91 | 1.65 | 6.30 | 1.65 |

| B5 | Pm | Dm | bm | tm |
|------------|--------|-------|------|---------|
| 063 | 140 mm | 11 mm | 4 mm | 12.8 mm |
| 071 | 160 mm | 14 mm | 5 mm | 16.3 mm |
| 080 | 200 mm | 19 mm | 6 mm | 21.8 mm |

3.1.7 HA31+SW

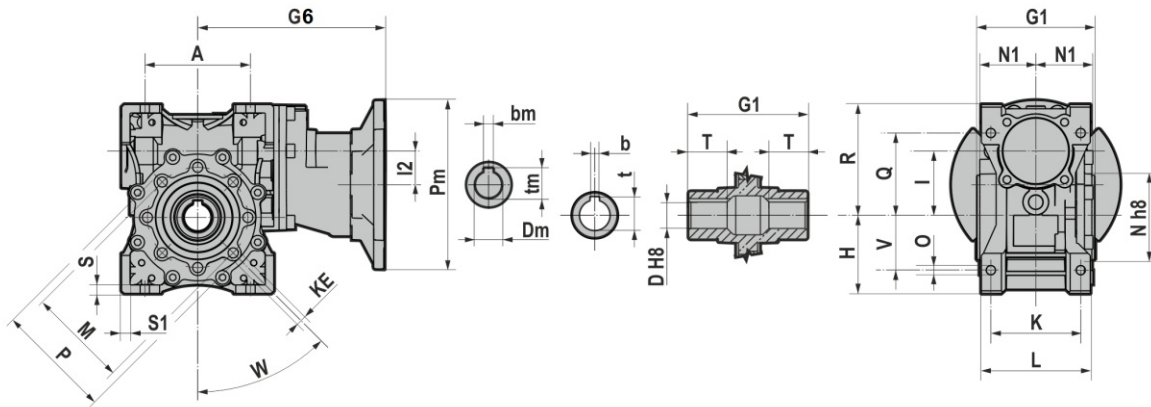


Dimensions Ø140 and 32 are in mm

| | SW040 | | SW050 | | SW063 | | SW075 | | SW090 | |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|
| | G4 | G5 | G4 | G5 | G4 | G5 | G4 | G5 | G4 | G5 |
| 063 | 5.91 | 0.98 | 6.30 | 0.98 | 6.81 | 0.98 | 7.36 | 0.98 | 8.03 | 0.98 |
| 071 | 5.91 | 1.26 | 6.30 | 1.26 | 6.81 | 1.26 | 7.36 | 1.26 | 8.03 | 1.26 |
| 080 | 5.91 | 1.65 | 6.30 | 1.65 | 6.81 | 1.65 | 7.36 | 1.65 | 8.03 | 1.65 |

| B5 | Pm | Dm | bm | tm |
|------------|--------|-------|------|---------|
| 063 | 140 mm | 11 mm | 4 mm | 12.8 mm |
| 071 | 160 mm | 14 mm | 5 mm | 16.3 mm |
| 080 | 200 mm | 19 mm | 6 mm | 21.8 mm |

3.1.8 NMRV-P/HW

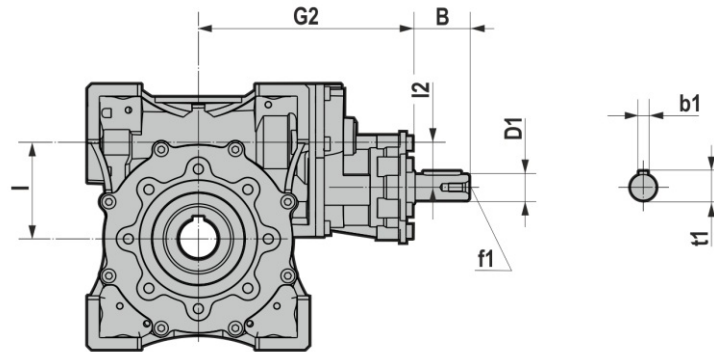


| | HW030 | | HW040 | |
|----|------------|-------------|-----------------|------------------------------------|
| | 56C/140TC | | 56C/140TC/180TC | |
| | NMRV-P 063 | NMRV-P 075 | NMRV-P 090 | NMRV-P 110 |
| A | 3.94 | 4.72 | 5.51 | 6.69 |
| G1 | 4.41 | 4.72 | 5.51 | 6.10 |
| G6 | 7.48 | 8.17 | 9.11 | 10.02 (56C/140TC) 10.40 (180TC) |
| H | 2.83 | 3.39 | 4.06 | 5.02 |
| H1 | 2.83 | 3.50 | 4.06 | 5.02 |
| I | 2.48 | 2.95 | 3.54 | 4.33 |
| I2 | 1.26 | 1.26 | 1.65 | 1.65 |
| K | 3.35 | 3.54 - 3.74 | 3.94 | 4.53 |
| KE | M8*14 | M8*14 | M10*18 | M10*18 |
| L | 4.06 | 4.41 | 5.12 | 5.67 |
| M | 3.74 | 4.53 | 5.12 | 6.50 |
| N | 3.15 | 3.74 | 4.33 | 5.12 |
| N1 | 2.09 | 2.24 | 2.64 | 2.91 |
| O | 0.33 | 0.43 | 0.51 | 0.55 |
| P | 4.33 | 5.16 | 6.30 | 7.87 |
| Q | 3.15 | 3.66 | 4.02 | 4.92 |
| R | 4.21 | 4.84 | 5.67 | 6.59 |
| S | 0.31 | 0.39 | 0.43 | 0.57 |
| S1 | 0.31 | 0.51 | 0.43 | 0.57 |
| V | 1.97 | 2.36 | 2.76 | 3.23 - 3.35 |
| W | 45 | 45 | 45 | 45 |

| NMRV-P | D +0.001/0 | b | t | T |
|--------|---------------|-------|------|------|
| 063 | 1.125 | 0.250 | 1.24 | 1.42 |
| 075 | 1.250 | 0.250 | 1.37 | 1.57 |
| 090 | 1.375 | 0.313 | 1.52 | 1.77 |
| 110 | 1.625 | 0.375 | 1.80 | 1.97 |

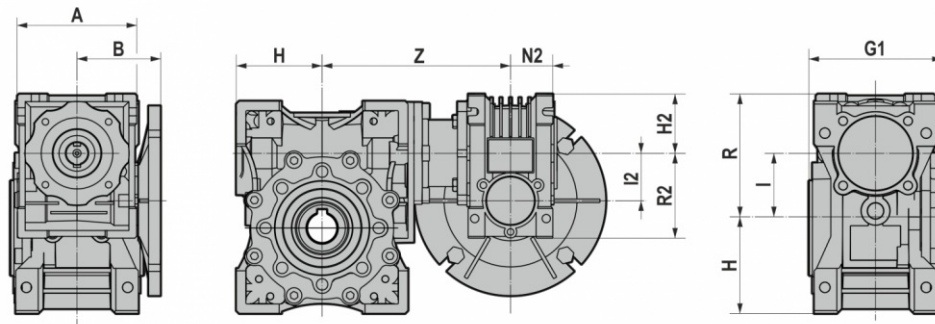
| NEMA | Pm | Dm | tm | bm |
|-------|------|-------|------|--------|
| 48C | 5.63 | 0.50 | 0.56 | 0.1250 |
| 56C | 6.69 | 0.625 | 0.71 | 0.1875 |
| 140TC | 6.69 | 0.875 | 0.97 | 0.1875 |
| 180TC | 9.06 | 1.125 | 1.24 | 0.2500 |

3.1.9 NMRV-P/IHW



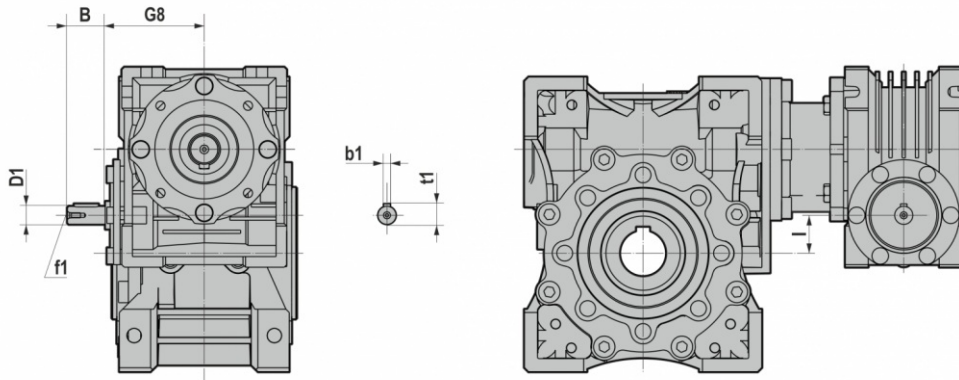
| IHW040 | | |
|-----------|------------|------------|
| | NMRV-P 090 | NMRV-P 110 |
| I | 3.54 | 4.33 |
| G2 | 8.05 | 8.96 |
| I2 | 1.65 | 1.65 |
| B | 1.57 | 1.97 |
| D1 | 19mm j6 | 24mm j6 |
| b1 | 6mm | 8mm |
| t1 | 21.5mm | 27mm |
| f1 | M6 | M8 |

3.1.10 NMRV/NMRV-P+NMRV/NMRV-P



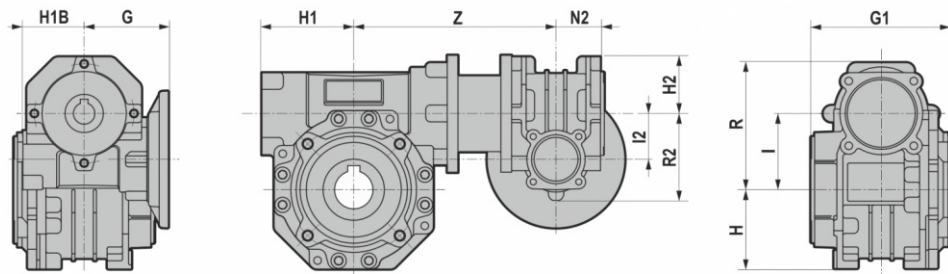
| | A | G | G1 | H | H1 | I | R | H2 | I2 | N2 | R2 | Z |
|----------------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 025-030 | 2.76 | 1.77 | 2.48 | 1.57 | 1.57 | 1.18 | 2.24 | 1.38 | 0.98 | 0.89 | 1.89 | 3.94 |
| 025-040 | 2.76 | 1.77 | 3.07 | 1.97 | 1.97 | 1.57 | 2.81 | 1.38 | 0.98 | 0.89 | 1.89 | 4.53 |
| 030-040 | 3.15 | 2.17 | 3.07 | 1.97 | 1.97 | 1.57 | 2.81 | 1.57 | 1.18 | 1.14 | 2.24 | 4.80 |
| 030-050 | 3.15 | 2.17 | 3.62 | 2.36 | 2.36 | 1.97 | 3.31 | 1.57 | 1.18 | 1.14 | 2.24 | 5.20 |
| 030-063 | 3.15 | 2.17 | 4.41 | 2.83 | 2.83 | 2.48 | 4.21 | 1.57 | 1.18 | 1.14 | 2.24 | 5.71 |
| 040-050 | 3.94 | 2.76 | 3.62 | 2.36 | 2.36 | 1.97 | 3.31 | 1.97 | 1.57 | 1.44 | 2.81 | 5.53 |
| 040-063 | 3.94 | 2.76 | 4.41 | 2.83 | 2.83 | 2.48 | 4.21 | 1.97 | 1.57 | 1.44 | 2.81 | 6.16 |
| 040-075 | 3.94 | 2.76 | 4.72 | 3.39 | 3.50 | 2.95 | 4.69 | 1.97 | 1.57 | 1.44 | 2.81 | 6.59 |
| 040-090 | 3.94 | 2.76 | 5.51 | 4.06 | 4.06 | 3.54 | 5.31 | 1.97 | 1.57 | 1.44 | 2.81 | 7.26 |
| 050-075 | 4.72 | 3.15 | 4.72 | 3.39 | 3.50 | 2.95 | 4.84 | 2.36 | 1.97 | 1.71 | 3.31 | 7.70 |
| 050-090 | 4.72 | 3.15 | 5.51 | 4.06 | 4.06 | 3.54 | 5.31 | 2.36 | 1.97 | 1.71 | 3.31 | 8.07 |
| 050-110 | 4.72 | 3.15 | 6.10 | 5.02 | 5.02 | 4.33 | 6.59 | 2.36 | 1.97 | 1.71 | 3.31 | 9.33 |
| 063-075 | 5.67 | 4.29 | 4.72 | 3.39 | 3.50 | 2.95 | 4.69 | 2.83 | 2.48 | 2.09 | 4.21 | 7.70 |
| 063-090 | 5.67 | 4.29 | 5.51 | 4.06 | 4.06 | 3.54 | 5.31 | 2.83 | 2.48 | 2.09 | 4.21 | 8.43 |
| 063-110 | 5.67 | 4.29 | 6.30 | 5.02 | 5.02 | 4.33 | 6.59 | 2.83 | 2.48 | 2.09 | 4.21 | 9.33 |
| 063-130 | 5.67 | 4.29 | 6.69 | 5.81 | 5.81 | 5.12 | 7.38 | 2.83 | 2.48 | 2.09 | 4.21 | 9.65 |
| 063-150 | 5.67 | 4.29 | 7.87 | 6.69 | 6.69 | 5.91 | 9.06 | 2.83 | 2.48 | 2.09 | 4.21 | 10.83 |

3.1.11 NRV/NRV-P+NMRV/NMRV-P



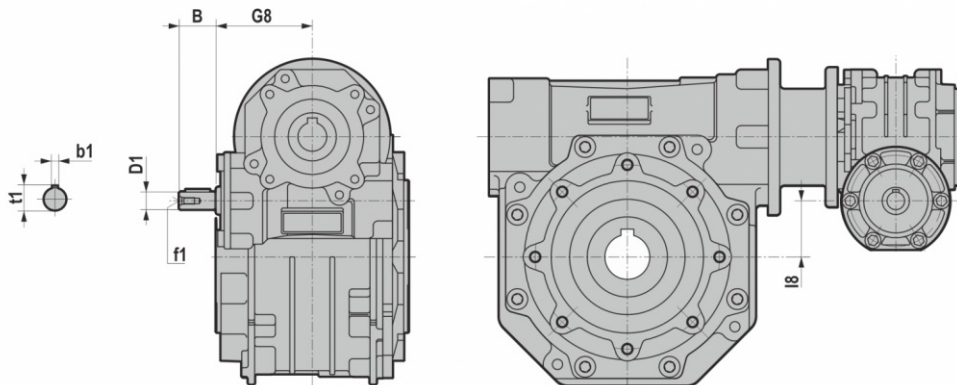
| | B | D1 | G8 | l8 | b1 | f1 | t1 |
|----------------|------|-------|------|------|-------|--------|------|
| 030-040 | 0.79 | 0.375 | 2.01 | 0.39 | 0.094 | - | 0.42 |
| 030-050 | 0.79 | 0.375 | 2.01 | 0.79 | 0.094 | - | 0.42 |
| 030-063 | 0.79 | 0.375 | 2.01 | 1.30 | 0.094 | - | 0.42 |
| 040-050 | 0.91 | 0.500 | 2.36 | 0.39 | 0.125 | - | 0.55 |
| 040-063 | 0.91 | 0.500 | 2.36 | 0.91 | 0.125 | - | 0.55 |
| 040-075 | 0.91 | 0.500 | 2.36 | 1.38 | 0.125 | - | 0.55 |
| 040-090 | 0.91 | 0.500 | 2.36 | 1.97 | 0.125 | - | 0.55 |
| 050-090 | 1.18 | 0.625 | 2.91 | 1.57 | 0.188 | 1/4-20 | 0.70 |
| 050-110 | 1.18 | 0.625 | 2.91 | 2.36 | 0.188 | 1/4-20 | 0.70 |
| 063-110 | 1.57 | 0.750 | 3.54 | 1.85 | 0.188 | 1/4-20 | 0.83 |
| 063-130 | 1.57 | 0.750 | 3.54 | 2.64 | 0.188 | 1/4-20 | 0.83 |
| 063-150 | 1.57 | 0.750 | 3.54 | 3.43 | 0.188 | 1/4-20 | 0.83 |

3.1.12 SW+SW



| | H1B | G | G1 | H | H1 | I | R | H2 | I2 | N2 | R2 | Z |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| 030-040 | 1.57 | 2.17 | 3.07 | 1.65 | 1.97 | 1.57 | 2.76 | 1.57 | 1.18 | 1.14 | 2.24 | 4.80 |
| 030-050 | 1.57 | 2.17 | 3.62 | 2.05 | 2.36 | 1.97 | 3.31 | 1.57 | 1.18 | 1.14 | 2.24 | 5.20 |
| 030-063 | 1.57 | 2.17 | 4.41 | 2.60 | 2.83 | 2.48 | 4.02 | 1.57 | 1.18 | 1.14 | 2.24 | 5.71 |
| 040-075 | 1.97 | 2.76 | 4.72 | 3.15 | 3.39 | 2.95 | 4.61 | 1.97 | 1.57 | 1.44 | 2.81 | 6.59 |
| 040-090 | 1.97 | 2.76 | 5.51 | 3.82 | 4.06 | 3.54 | 5.24 | 1.97 | 1.57 | 1.44 | 2.81 | 7.26 |
| 050-090 | 2.36 | 3.15 | 5.51 | 3.82 | 4.06 | 3.54 | 5.24 | 2.36 | 1.97 | 1.71 | 3.31 | 8.07 |
| 050-105 | 2.36 | 3.15 | 6.10 | 4.53 | 5.02 | 4.33 | 6.54 | 2.36 | 1.97 | 1.71 | 3.31 | 8.90 |

3.1.13 ISW+SW



| | B | D1 | G8 | I8 | b1 | f1 | t1 |
|---------|------|-------|------|------|-------|--------|------|
| 030-040 | 0.79 | 0.375 | 2.01 | 0.39 | 0.094 | - | 0.42 |
| 030-050 | 0.79 | 0.375 | 2.01 | 0.79 | 0.094 | - | 0.42 |
| 030-063 | 0.79 | 0.375 | 2.01 | 1.30 | 0.094 | - | 0.42 |
| 040-075 | 0.91 | 0.500 | 2.36 | 1.38 | 0.125 | - | 0.55 |
| 040-090 | 0.91 | 0.500 | 2.36 | 1.97 | 0.125 | - | 0.55 |
| 050-090 | 1.18 | 0.625 | 2.91 | 1.57 | 0.188 | 1/4-20 | 0.70 |
| 050-105 | 1.18 | 0.625 | 2.91 | 2.36 | 0.188 | 1/4-20 | 0.70 |

3.2.1 Weight NMRV [lb]

The values reported in the tables are referred to the weight of the gearbox with lubricant included.
Weight without motor.

| NMRV - NMRV-P (- lb) | | | | | | | | | |
|----------------------|-----|-----|-----|------|------|------|------|------|-------|
| 025 | 030 | 040 | 050 | 063 | 075 | 090 | 110 | 130 | 150 |
| 1.5 | 2.6 | 5 | 7.7 | 13.7 | 19.8 | 28.7 | 46.3 | 95.9 | 169.8 |

| NRV - NRV-P (- lb) | | | | | | | | |
|--------------------|-----|-----|------|------|------|------|------|-------|
| 030 | 040 | 050 | 063 | 075 | 090 | 110 | 130 | 150 |
| 2.2 | 4.4 | 7.3 | 12.8 | 19.4 | 28.7 | 46.3 | 95.9 | 169.8 |

| | HA31+NMRV040 (- lb) | HA31+NMRV050 (- lb) |
|-----|---------------------|---------------------|
| 063 | 9.3 | 11.9 |
| 071 | 9.5 | 12.1 |
| 080 | 9.9 | 12.6 |

| 056/063/071/080 | | 063/071/080/090 | | NMRV-P090/IHW040 (- lb) | NMRV-P110/IHW040 (- lb) |
|------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|
| NMRV-P063/HW030 (- lb) | NMRV-P075/HW030 (- lb) | NMRV-P090/HW040 (- lb) | NMRV-P110/HW040 (- lb) | 32.2 | 54 |
| 15.6 | 22 | 31.2 | 53.8 | | |

| NMRV+NMRV - NMRV+NMRV-P - NMRV-P+NMRV - NMRV-P+NMRV-P (- lb) | | | | | | | | | | | | | |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 025-030 | 025-040 | 030-040 | 030-050 | 030-063 | 040-050 | 040-063 | 040-075 | 040-090 | 050-090 | 050-110 | 063-110 | 063-130 | 063-150 |
| 4.2 | 6.6 | 7.7 | 10.4 | 16.3 | 12.8 | 18.7 | 24.9 | 33.7 | 36.4 | 84.9 | 90.8 | 119.5 | 198.9 |

| NRV+NMRV - NRV+NMRV-P - NRV-P+NMRV - NRV-P+NMRV-P (- lb) | | | | | | | | | | | | |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| 030-040 | 030-050 | 030-063 | 040-050 | 040-063 | 040-075 | 040-090 | 050-090 | 050-110 | 063-110 | 063-130 | 063-150 | |
| 7.7 | 10.4 | 16.3 | 12.8 | 18.7 | 24.9 | 33.7 | 36.4 | 84.9 | 90.8 | 119.5 | 198.9 | |

3.2.2 Weight SW [lb]

The values reported in the tables are referred to the weight of the gearbox with lubricant included.
Weight without motor.

| SW (- lb) | | | | | | |
|-----------|-----|-----|------|------|------|------|
| 030 | 040 | 050 | 063 | 075 | 090 | 105 |
| 2.6 | 5 | 7.7 | 13.7 | 19.8 | 28.7 | 46.3 |

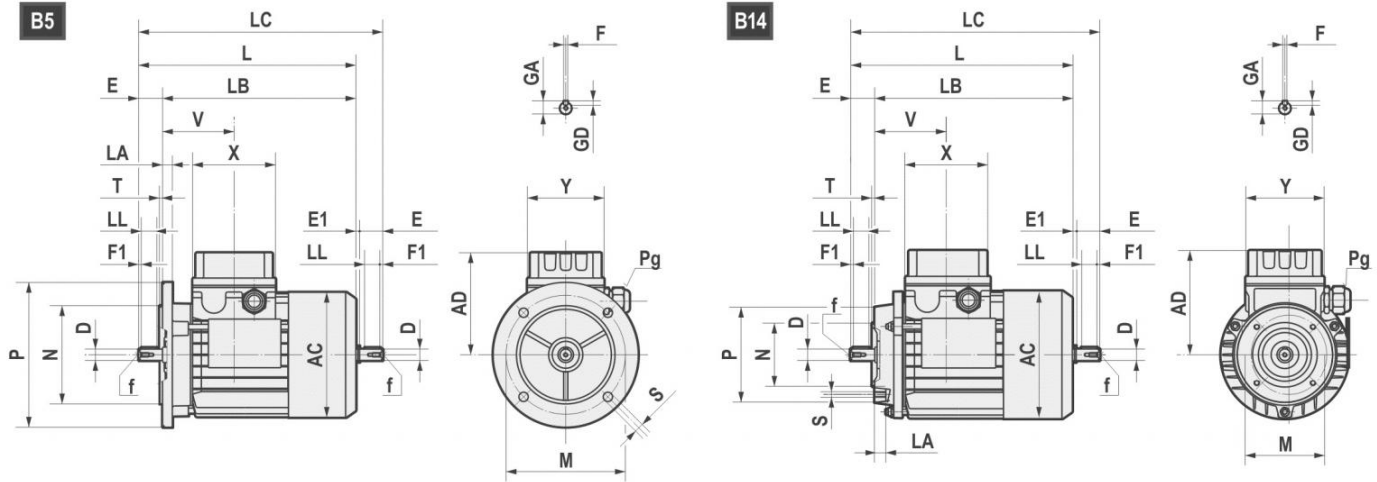
| ISW (- lb) | | | | | | |
|------------|-----|-----|------|------|------|------|
| 030 | 040 | 050 | 063 | 075 | 090 | 105 |
| 2.2 | 4.4 | 7.3 | 12.8 | 19.4 | 28.7 | 46.3 |

| | HA31+SW040 (- lb) | HA31+SW050 (- lb) | HA31+SW063 (- lb) | HA31+SW075 (- lb) | HA31+SW090 (- lb) |
|-----|-------------------|-------------------|-------------------|-------------------|-------------------|
| 063 | 9.3 | 11.9 | 17.9 | 24 | 32.8 |
| 071 | 9.5 | 12.1 | 18.1 | 24.2 | 33.1 |
| 080 | 9.9 | 12.6 | 18.5 | 24.7 | 33.5 |

| SW+SW (- lb) | | | | | |
|--------------|---------|---------|---------|---------|---------|
| 030-040 | 030-050 | 030-063 | 040-075 | 040-090 | 050-105 |
| 7.7 | 10.4 | 16.3 | 24.9 | 33.7 | 84.9 |

| ISW+SW (- lb) | | | | | |
|---------------|---------|---------|---------|---------|---------|
| 030-040 | 030-050 | 030-063 | 040-075 | 040-090 | 050-105 |
| 7.7 | 10.4 | 16.3 | 24.9 | 33.7 | 84.9 |

3.3.1 Electric motors



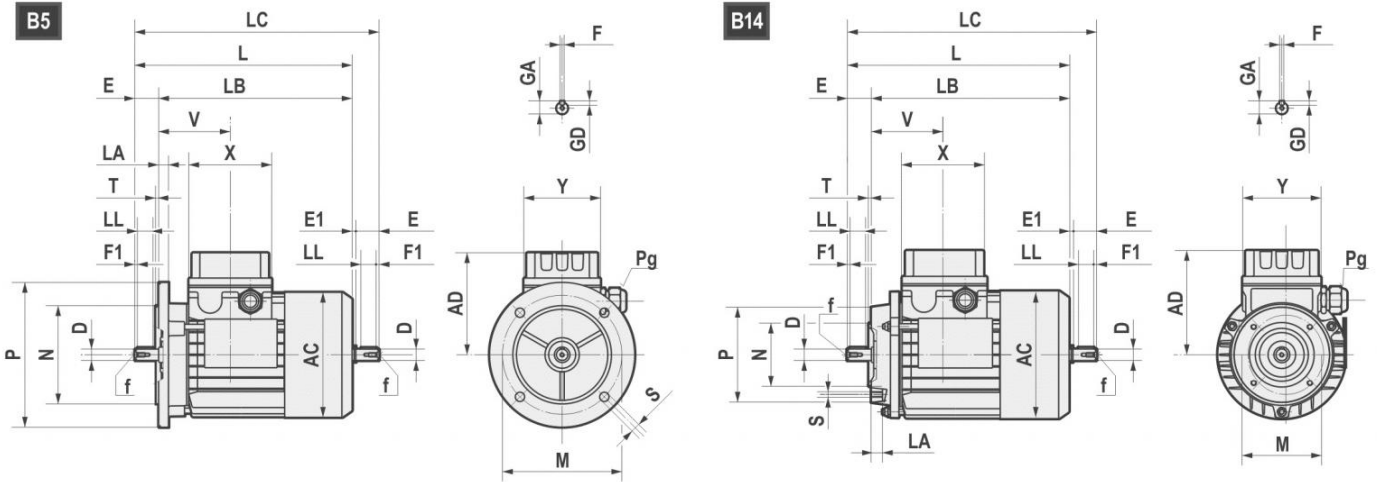
| | AC | AD | L | LB | LC | X | Y | V | D | E | E1 | f | F1 | GA | F | GD |
|-------------|-----|-----|---------------|---------------|---------------|-----|-----|-------|-------|-----|-----|---------|-----|------|----|----|
| 63 | 121 | 104 | 211 | 188 | 235.5 | 80 | 74 | 69 | 11 j6 | 23 | 1.5 | M4x10 | 2.5 | 12.5 | 4 | 4 |
| 71 | 139 | 112 | 238.5 | 208.5 | 271 | 80 | 74 | 74.5 | 14 j6 | 30 | 2.5 | M5x12.5 | 3 | 16 | 5 | 5 |
| 80 | 158 | 122 | 272.5 *296 | 232.5 *256 | 314 *337 | 80 | 74 | 78 | 19 j6 | 40 | 1.5 | M6x16 | 5 | 21.5 | 6 | 6 |
| 90S | 173 | 148 | 298 *331 | 248 *281 | 349.5 *381 | 98 | 98 | 89.5 | 24 j6 | 50 | 1.5 | M8x19 | 5 | 27 | 8 | 7 |
| 90L | 173 | 148 | 323 *356 | 273 *306 | 374.5 *408 | 98 | 98 | 89.5 | 24 j6 | 50 | 1.5 | M8x19 | 5 | 27 | 8 | 7 |
| 100 | 191 | 156 | 368 | 308 | 431.5 | 98 | 98 | 97.5 | 28 j6 | 60 | 3.5 | M10x22 | 7.5 | 31 | 8 | 7 |
| 112 | 211 | 171 | 382.5 *408 | 322.5 *348 | 447 *472 | 98 | 98 | 100 | 28 j6 | 60 | 3.5 | M10x22 | 7.5 | 31 | 8 | 7 |
| 132S | 249 | 195 | 452 | 372 | 536.5 | 118 | 118 | 115.5 | 38 k6 | 80 | 4 | M12x28 | 10 | 41 | 10 | 8 |
| 132L | 249 | 195 | 490 | 410 | 574.5 | 118 | 118 | 115.5 | 38 k6 | 80 | 4 | M12x28 | 10 | 41 | 10 | 8 |
| 160S | 249 | 195 | 520 | 410 | / | 118 | 118 | 115.5 | 42k6 | 100 | / | M16x36 | 10 | 45 | 12 | 8 |

*TP80B4, SH80B4, HSH80B4, TP90S4, SH90S4, HSH90S4, TP90L4, SH90L4, HSH90L4, TP90S6, TP112M4, TP112M6

| B5 | M | N | P | LA | S | T |
|------------|-----|-----|-----|------|------|-----|
| 63 | 115 | 95 | 140 | 10 | 9 | 3 |
| 71 | 130 | 110 | 160 | 10 | 9.5 | 3.5 |
| 80 | 165 | 130 | 200 | 12 | 11 | 3.5 |
| 90 | 165 | 130 | 200 | 12 | 11 | 3.5 |
| 100 | 215 | 180 | 250 | 15 | 14 | 4 |
| 112 | 215 | 180 | 250 | 14.5 | 14 | 4 |
| 132 | 265 | 230 | 300 | 20 | 14 | 3.5 |
| 160 | 300 | 250 | 350 | 13 | 18.5 | 3.5 |

| B14 | M | N | P | LA | S | T |
|------------|-----|-----|-----|------|-----|-----|
| 63 | 75 | 60 | 90 | 10 | M5 | 2.5 |
| 71 | 85 | 70 | 105 | 10.5 | M6 | 2.5 |
| 80 | 100 | 80 | 120 | 10.5 | M6 | 3 |
| 90 | 115 | 95 | 140 | 11.5 | M8 | 3 |
| 100 | 130 | 110 | 160 | 15 | M8 | 3.5 |
| 112 | 130 | 110 | 160 | 11.5 | M8 | 3.5 |
| 132 | 165 | 130 | 200 | 20.5 | M10 | 3.5 |
| 160 | 215 | 180 | 250 | - | M12 | 4 |

All dimensions are in mm



| | | AC | AD | L | LB | X | D | E | f | GA | F | GD | LL | Pg | |
|-------------|-------|-----|-----|------|-----|-----|----|-----|-----|------|----|----|-----|-----------|-----------|
| 160M | 2-4-6 | 314 | 251 | 600 | 490 | 158 | 42 | 110 | M16 | 45 | 12 | 8 | 90 | 2-M40x1.5 | 1-M16x1.5 |
| 160L | 2-4-6 | 314 | 251 | 645 | 535 | 158 | 42 | 110 | M16 | 45 | 12 | 8 | 90 | 2-M40x1.5 | 1-M16x1.5 |
| 180M | 2-4 | 355 | 267 | 680 | 570 | 158 | 48 | 110 | M16 | 51.5 | 14 | 9 | 100 | 2-M40x1.5 | 1-M16x1.5 |
| 180L | 4-6 | 355 | 267 | 720 | 610 | 158 | 48 | 110 | M16 | 51.5 | 14 | 9 | 100 | 2-M40x1.5 | 1-M16x1.5 |
| 200L | 2-4-6 | 397 | 300 | 785 | 675 | 187 | 55 | 110 | M20 | 59 | 16 | 10 | 100 | 2-M50x1.5 | 1-M16x1.5 |
| 225S | 4 | 446 | 325 | 820 | 680 | 187 | 60 | 140 | M20 | 64 | 18 | 11 | 125 | 2-M50x1.5 | 1-M16x1.5 |
| 225M | 2 | 446 | 325 | 815 | 705 | 187 | 55 | 110 | M20 | 59 | 16 | 10 | 100 | 2-M50x1.5 | 1-M16x1.5 |
| 225M | 4-6 | 446 | 325 | 845 | 705 | 187 | 60 | 140 | M20 | 64 | 18 | 11 | 125 | 2-M50x1.5 | 1-M16x1.5 |
| 250M | 2-4-6 | 485 | 360 | 910 | 770 | 238 | 60 | 140 | M20 | 64 | 18 | 11 | 125 | 2-M63x1.5 | 1-M16x1.5 |
| 250M | 2-4-6 | 485 | 360 | 910 | 770 | 238 | 65 | 140 | M20 | 69 | 18 | 11 | 125 | 2-M63x1.5 | 1-M16x1.5 |
| 280S | 2-4-6 | 547 | 390 | 970 | 830 | 238 | 65 | 140 | M20 | 69 | 18 | 11 | 125 | 2-M63x1.5 | 1-M16x1.5 |
| 280S | 2-4-6 | 547 | 390 | 970 | 830 | 238 | 75 | 140 | M20 | 79.5 | 20 | 12 | 125 | 2-M63x1.5 | 1-M16x1.5 |
| 280M | 2-4-6 | 547 | 390 | 1025 | 885 | 238 | 65 | 140 | M20 | 69 | 18 | 11 | 125 | 2-M63x1.5 | 1-M16x1.5 |
| 280M | 2-4-6 | 547 | 390 | 1025 | 885 | 238 | 75 | 140 | M20 | 79.5 | 20 | 12 | 125 | 2-M63x1.5 | 1-M16x1.5 |

| B5 | M | N | P | LA | S | T |
|------------|-----|-----|-----|----|----|---|
| 160 | 300 | 250 | 350 | 13 | 19 | 5 |
| 180 | 300 | 250 | 350 | 15 | 19 | 5 |
| 200 | 350 | 300 | 400 | 17 | 19 | 5 |
| 225 | 400 | 350 | 450 | 20 | 19 | 5 |
| 250 | 500 | 450 | 550 | 22 | 19 | 5 |
| 280 | 500 | 450 | 550 | 22 | 19 | 5 |

All dimensions are in mm

3.3.2 Nominal power - [HP]

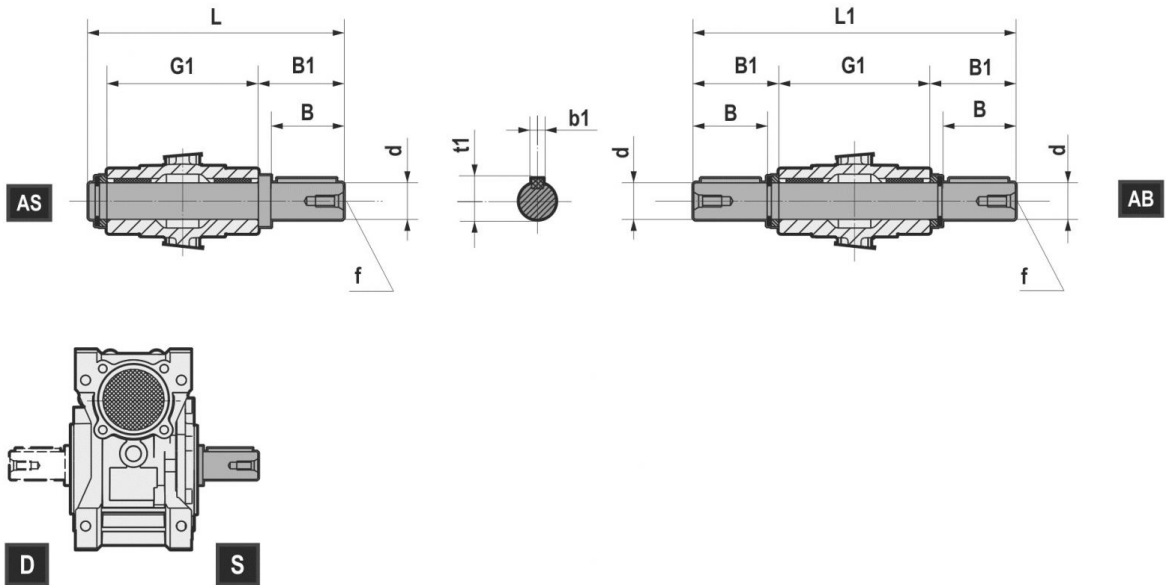
| P. | 63A | | | 63B | | 63C | 63D | 71A | | 71B | | 71C |
|----|------|------|------|------|------|------|------|------|------|------|------|------|
| | TS | TH | TP | TH | TP | TH | TH | TH | TP | TH | TP | TH |
| 2 | - | 0,18 | - | 0,25 | - | 0,37 | - | 0,37 | - | 0,55 | - | - |
| 4 | - | 0,12 | 0,12 | 0,18 | 0,18 | - | 0,25 | 0,25 | 0,25 | 0,37 | 0,37 | 0,55 |
| 6 | 0,09 | - | - | 0,12 | - | - | - | 0,18 | - | 0,25 | - | 0,37 |

| P. | 80A | | 80B | | 90S | 90L | 100LR | 100LA | 100L | 112MR | 112MS | 112M |
|----|------|------|------|------|------|-----|-------|-------|------|-------|-------|------|
| | TH | TP | TH | TP | TP | TP | TP | TP | TP | TP | TP | TP |
| 2 | - | 0,75 | - | 1,1 | 1,5 | 2,2 | - | - | 3 | - | - | 4 |
| 4 | 0,55 | 0,55 | - | 0,75 | 1,1 | 1,5 | - | 2,2 | - | 2,2 | 3 | 4 |
| 6 | 0,37 | - | 0,55 | - | 0,75 | - | 1,1 | - | 1,5 | - | - | 2,2 |

| P. | 132S | 132MS | 132MA | 132MB | 132M |
|----|------|-------|-------|-------|------|
| | TP | TP | TP | TP | TP |
| 2 | 5,5 | - | - | - | 7,5 |
| 4 | - | 5,5 | - | - | 7,5 |
| 6 | 3 | - | 4 | 5,5 | - |

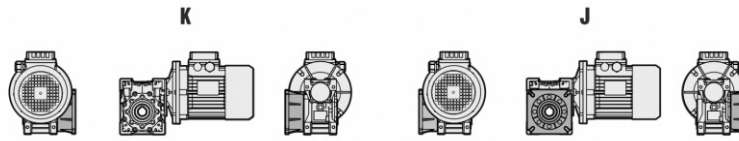
| P. | 160M | 160MA | 160MB | 160L | 160LA | 180M | 180L |
|----|------|-------|-------|------|-------|------|------|
| | TP | TP | TP | TP | TP | TP | TP |
| 2 | - | 11 | 15 | 18,5 | - | 22 | - |
| 4 | - | 11 | - | - | 15 | 18,5 | 22 |
| 6 | 7,5 | - | - | 11 | - | - | 15 |

| P. | 200L | 200LA | 200LB | 225S | 225M | 250M | 280S | 280M |
|----|------|-------|-------|------|------|------|------|------|
| | TP | TP | TP | TP | TP | TP | TP | TP |
| 2 | - | 30 | 37 | - | - | - | - | - |
| 4 | 30 | - | - | 37 | 45 | 55 | 75 | 90 |
| 6 | - | 18,5 | 22 | - | - | - | - | - |

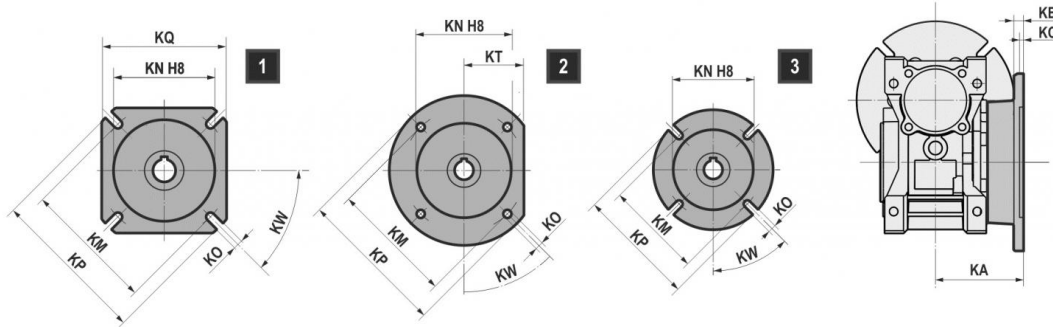


| | | d +0/-0.001 | B | B1 | G1 | L | L1 | f | b1 | t1 |
|--------------|-----|------------------|------|------|------|-------|-------|--------|--------|------|
| NMRV | 025 | 0.500 | 0.90 | 1.00 | 1.97 | 3.19 | - | - | 0.125 | 0.55 |
| NMRV SW | 030 | 0.625 | 1.57 | 1.67 | 2.48 | 4.41 | 5.82 | 1/4-20 | 0.1875 | 0.70 |
| NMRV SW | 040 | 0.750 | 1.97 | 2.09 | 3.07 | 5.43 | 7.25 | 1/4-20 | 0.1875 | 0.83 |
| NMRV SW | 050 | 1 | 1.97 | 2.11 | 3.62 | 6.02 | 7.84 | 3/8-16 | 0.250 | 1.11 |
| NMRV-P SW | 063 | 1.125 | 2.36 | 2.50 | 4.41 | 7.20 | 9.41 | 3/8-16 | 0.250 | 1.23 |
| NMRV-P SW | 075 | 1.250 | 2.76 | 2.89 | 4.72 | 7.56 | 10.51 | 1/2-13 | 0.250 | 1.36 |
| NMRV-P SW | 090 | 1.375 | 3.15 | 3.33 | 5.51 | 9.21 | 12.13 | 1/2-13 | 0.3125 | 1.51 |
| SW | 105 | 1.625 | 3.54 | 3.72 | 6.10 | 9.80 | 13.54 | 5/8-11 | 0.375 | 1.79 |
| NMRV-P | 110 | 1.625 | 3.54 | 3.72 | 6.10 | 9.80 | 13.54 | 5/8-11 | 0.375 | 1.79 |
| NMRV | 130 | 1.750 | 3.54 | 3.72 | 6.69 | 10.43 | 14.17 | 5/8-11 | 0.375 | 1.92 |
| NMRV | 150 | 2.000 | 3.94 | 4.13 | 7.87 | 11.69 | 16.14 | 3/4-10 | 0.500 | 2.22 |

4.2 OUTPUT FLANGE



Unless specified otherwise, the reduction unit is supplied with the flange in pos. J referred to position B3.



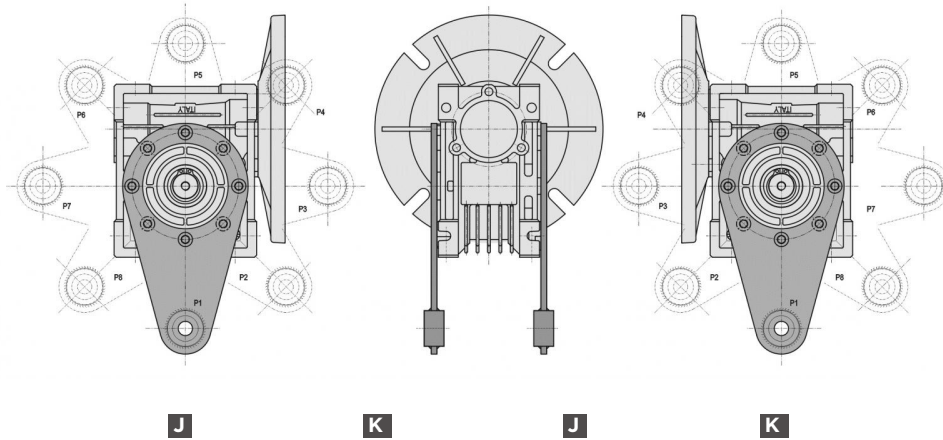
| | NMRV - SW | NMRV - SW | NMRV - SW | NMRV-P - SW | NMRV-P - SW | NMRV-P - SW | SW | NMRV-P | NMRV | NMRV |
|----|-----------|-----------|-----------|-------------|-------------|-------------|-----|--------|------|------|
| | 030 | 040 | 050 | 063 | 075 | 090 | 105 | 110 | 130 | 150 |
| FA | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| FB | - | 1 | 1 | 1 | 3 | 2 | 1 | 1 | - | - |
| FC | - | 2 | 2 | 2 | - | 3 | - | - | - | - |
| FD | - | 2 | 2 | 2 | - | 1 | - | - | - | - |
| FE | - | - | - | 3 | - | - | - | - | - | - |

| | | FA | | | | | | | | | FB | | | | | | | | | | |
|-------------|-----|------|------|------|------|-------|------|-------|-------|------|------|------|------|------|------|------|-------|-------|------|----|---|
| | | KA | KB | KC | KN | KM | KO | KP | KQ | KW | KA | KB | KC | KN | KM | KO | KP | KQ | KT | KW | |
| NMRV - SW | 030 | 2.15 | 0.24 | 0.16 | 1.97 | 2.68 | 0.26 | 3.15 | 2.76 | 45 | - | - | - | - | - | - | - | - | - | - | - |
| NMRV - SW | 040 | 2.64 | 0.28 | 0.16 | 2.36 | 3.15 | 0.35 | 4.33 | 3.74 | 45 | 3.82 | 0.28 | 0.16 | 2.36 | 3.15 | 0.35 | 4.33 | 3.74 | - | 45 | |
| NMRV - SW | 050 | 3.54 | 0.35 | 0.2 | 2.76 | 3.54 | 0.43 | 4.92 | 4.33 | 45 | 4.72 | 0.35 | 0.2 | 2.76 | 3.54 | 0.43 | 4.92 | 4.33 | - | 45 | |
| NMRV-P - SW | 063 | 3.23 | 0.39 | 0.24 | 4.53 | 5.91 | 0.43 | 7.09 | 5.59 | 45 | 4.41 | 0.39 | 0.24 | 4.53 | 5.91 | 0.43 | 7.09 | 5.59 | - | 45 | |
| NMRV-P - SW | 075 | 4.37 | 0.51 | 0.24 | 5.12 | 6.5 | 0.55 | 7.87 | 6.69 | 45 | 3.54 | 0.51 | 0.24 | 4.33 | 5.12 | 0.43 | 6.3 | - | - | 45 | |
| NMRV-P - SW | 090 | 4.37 | 0.51 | 0.24 | 5.98 | 6.89 | 0.55 | 8.27 | 7.87 | 45 | 4.8 | 0.71 | 0.24 | 7.09 | 8.46 | 0.55 | 9.84 | - | 4.13 | 45 | |
| SW | 105 | 5.16 | 0.59 | 0.24 | 6.69 | 9.06 | 0.55 | 11.02 | 10.24 | 45 | 7.09 | 0.59 | 0.24 | 6.69 | 9.06 | 0.55 | 11.02 | 10.24 | - | 45 | |
| NMRV-P | 110 | 5.16 | 0.59 | 0.24 | 6.69 | 9.06 | 0.55 | 11.02 | 10.24 | 45 | 7.09 | 0.59 | 0.24 | 6.69 | 9.06 | 0.55 | 11.02 | 10.24 | - | 45 | |
| NMRV | 130 | 5.51 | 0.59 | 0.24 | 7.09 | 10.04 | 0.63 | 12.6 | 11.42 | 22.5 | - | - | - | - | - | - | - | - | - | - | |
| NMRV | 150 | 6.1 | 0.59 | 0.24 | 7.09 | 10.04 | 0.63 | 12.6 | 11.42 | 22.5 | - | - | - | - | - | - | - | - | - | - | |

| | | FC | | | | | | | | | FD | | | | | | | | | |
|-------------|-----|------|------|------|------|------|------|------|------|----|------|------|------|------|------|------|------|------|------|----|
| | | KA | KB | KC | KN | KM | KO | KP | KT | KW | KA | KB | KC | KN | KM | KO | KP | KQ | KT | KW |
| NMRV - SW | 040 | 3.15 | 0.35 | 0.2 | 3.74 | 4.53 | 0.37 | 5.51 | 2.2 | 45 | 2.28 | 0.47 | 0.2 | 3.15 | 3.94 | 0.35 | 4.72 | - | 1.97 | 45 |
| NMRV - SW | 050 | 3.5 | 0.39 | 0.2 | 4.33 | 5.12 | 0.37 | 6.3 | 2.6 | 45 | 2.83 | 0.57 | 0.2 | 3.74 | 4.53 | 0.43 | 5.51 | - | 2.36 | 45 |
| NMRV-P - SW | 063 | 3.86 | 0.39 | 0.2 | 5.12 | 6.5 | 0.43 | 7.87 | 3.15 | 45 | 4.21 | 0.39 | 0.2 | 5.12 | 6.5 | 0.43 | 7.87 | - | 3.15 | 45 |
| NMRV-P - SW | 090 | 4.33 | 0.67 | 0.24 | 5.12 | 6.5 | 0.43 | 7.87 | - | 45 | 5.94 | 0.51 | 0.24 | 5.98 | 6.89 | 0.55 | 8.27 | 7.87 | - | 45 |

| | | FE | | | | | | | |
|-------------|-----|------|------|-----|------|------|------|-----|----|
| | | KA | KB | KC | KN | KM | KO | KP | KW |
| NMRV-P - SW | 063 | 3.17 | 0.65 | 0.2 | 4.33 | 5.12 | 0.43 | 6.3 | 45 |

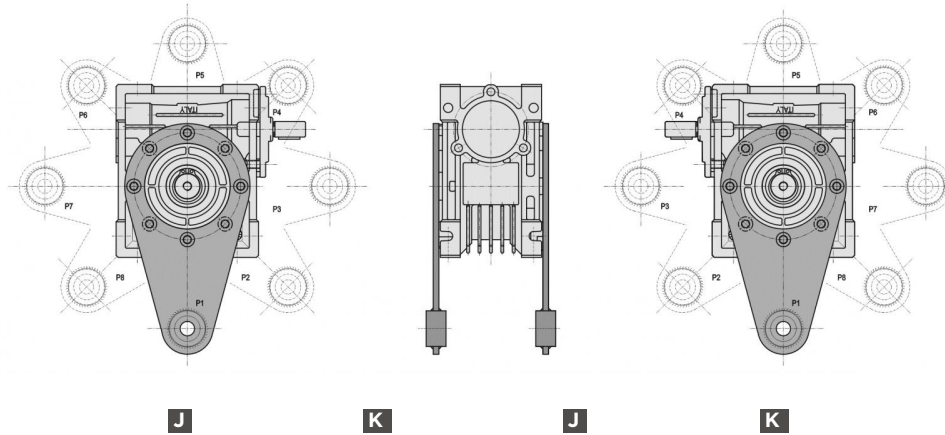
4.3.1 Torque arm: Mounting position



| NMRV NMRV-P NMRL | P1 | | P2 | | P3 | | P4 | | P5 | | P6 | | P7 | | P8 | |
|------------------------|------------|---|----|----|----|----|----|----|------------|----|------------|----|------------|---|------------|----|
| | J | K | J | K | J | K | J | K | J | K | J | K | J | K | J | K |
| 025 | | | / | / | NO | NO | / | / | | | / | / | | | / | / |
| 030 | | | NO | NO | NO | NO | NO | NO | | | | | | | | |
| 040 | NO NMRL | | NO | NO | NO | NO | NO | NO | NO NMRL | | NO NMRL | | NO NMRL | | NO NMRL | |
| 050 | | | NO | NO | NO | NO | NO | NO | | | NO | NO | | | | |
| 063 | | | | | NO | NO | NO | NO | | | | | | | | |
| 075 | | | NO | NO | NO | NO | NO | NO | | | | | | | | |
| 090 | | | | | NO | NO | NO | NO | | | | | | | | |
| 110 | | | | | NO | NO | NO | NO | | | | | | | | |
| 130 | | | | | NO | NO | NO | NO | | | | | | | | |
| 150 | | | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | | | NO | NO |

| SW SWL | P1 | | P2 | | P3 | | P4 | | P5 | | P6 | | P7 | | P8 | |
|-----------|-----------|---|----|----|----|----|----|----|-----------|---|-----------|----|-----------|---|-----------|---|
| | J | K | J | K | J | K | J | K | J | K | J | K | J | K | J | K |
| 030 | | | NO | NO | NO | NO | NO | NO | | | | | | | | |
| 040 | NO SWL | | NO | NO | NO | NO | NO | NO | NO SWL | | NO SWL | | NO SWL | | NO SWL | |
| 050 | | | NO | NO | NO | NO | NO | NO | | | NO | NO | | | | |
| 063 | | | | | NO | NO | NO | NO | | | | | | | | |
| 075 | | | NO | NO | NO | NO | NO | NO | | | | | | | | |
| 090 | | | | | NO | NO | NO | NO | | | | | | | | |
| 105 | | | | | NO | NO | NO | NO | | | | | | | | |

(/) Not available



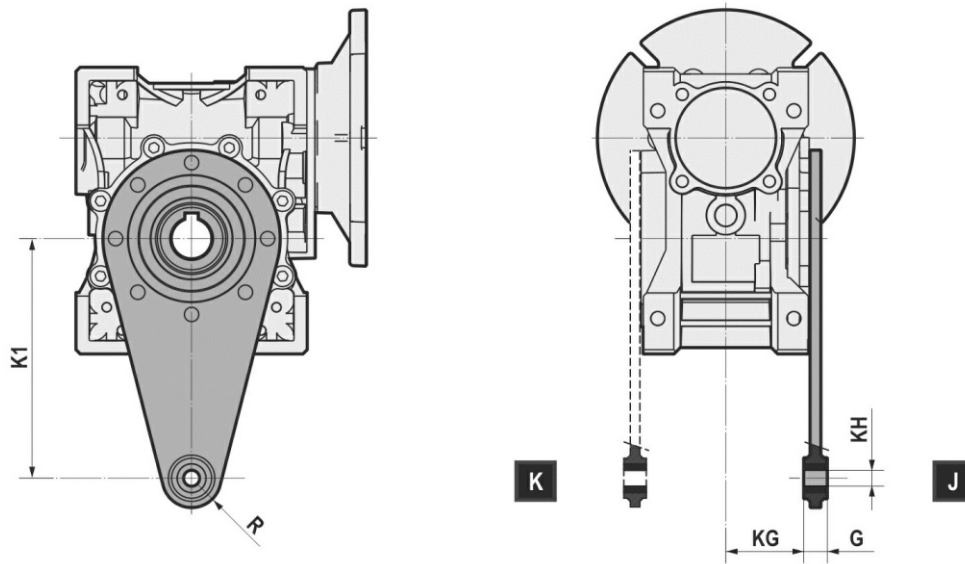
| NRV NRV-P NRL | P1 | | P2 | | P3 | | P4 | | P5 | | P6 | | P7 | | P8 | | |
|---------------------|-----------|---|-----------|----|-----------|----|----|----|-----------|----|-----------|----|-----------|---|-----------|----|-----------|
| | J | K | J | K | J | K | J | K | J | K | J | K | J | K | J | K | |
| 030 | | | NO | NO | | | NO | NO | | | | | | | | | |
| 040 | NO NRL | | NO NRL | NO | NO NRL | NO | NO | NO | NO NRL | | NO NRL | | NO NRL | | NO NRL | | NO NRL |
| 050 | | | NO | NO | | | NO | NO | | | NO | NO | | | | | |
| 063 | | | | | | | NO | NO | | | | | | | | | |
| 075 | | | | | | | NO | NO | | | | | | | | | |
| 090 | | | | | | | NO | NO | | | | | | | | | |
| 110 | | | | | | | NO | NO | | | | | | | | | |
| 130 | | | | | | | NO | NO | | | | | | | | | |
| 150 | | | NO | NO | | | NO | NO | NO | NO | NO | NO | | | | NO | NO |

| ISW SWL | P1 | | P2 | | P3 | | P4 | | P5 | | P6 | | P7 | | P8 | | |
|------------|-----------|---|----|----|----|----|----|----|-----------|---|-----------|----|-----------|---|-----------|---|-----------|
| | J | K | J | K | J | K | J | K | J | K | J | K | J | K | J | K | |
| 030 | | | NO | NO | NO | NO | NO | NO | | | | | | | | | |
| 040 | NO SWL | | NO | NO | NO | NO | NO | NO | NO SWL | | NO SWL | | NO SWL | | NO SWL | | NO SWL |
| 050 | | | NO | NO | NO | NO | NO | NO | | | NO | NO | | | | | |
| 063 | | | | | NO | NO | NO | NO | | | | | | | | | |
| 075 | | | NO | NO | NO | NO | NO | NO | | | | | | | | | |
| 090 | | | | | NO | NO | NO | NO | | | | | | | | | |
| 105 | | | | | NO | NO | NO | NO | | | | | | | | | |

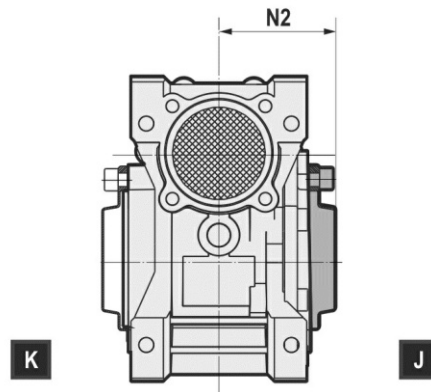
(/) Not available

For information on torque arm mounting positions on combined worm gear reducers and worm gear reducers with pre-stage units, please contact our Technical Service.

4.3.2 Torque arm: Dimensions



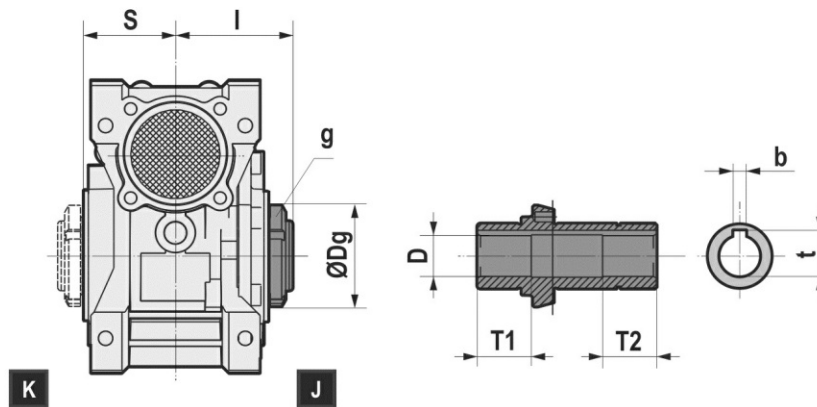
| NMRV NMRV-P SW | 025 | 030 | 040 | 050 | 063 | 075 | 090 | 105 | 110 | 130 | 150 |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|
| K1 | 2.76 | 3.35 | 3.94 | 3.94 | 5.91 | 7.87 | 7.87 | 9.84 | 9.84 | 9.84 | 9.84 |
| G | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.98 | 0.98 | 1.18 | 1.18 | 1.18 | 1.18 |
| KG | 0.69 | 0.94 | 1.24 | 1.52 | 1.93 | 1.87 | 2.26 | 2.44 | 2.44 | 2.72 | 3.31 |
| KH | 0.31 | 0.31 | 0.39 | 0.39 | 0.39 | 0.79 | 0.79 | 0.98 | 0.98 | 0.98 | 0.98 |
| R | 0.59 | 0.59 | 0.71 | 0.71 | 0.71 | 1.18 | 1.18 | 1.38 | 1.38 | 1.38 | 1.38 |



| NMRV NMRV-P SW | N2 |
|----------------------|------|
| 030 | 1.65 |
| 040 | 1.97 |
| 050 | 2.26 |
| 063 | 2.70 |
| 075 | 2.89 |
| 090 | 3.37 |
| 105 | 3.70 |
| 110 | 3.70 |
| 130 | 4.02 |
| 150 | 4.61 |

4.5.1 Dimensions

The torque limiter is available for worm gearbox type NMRL050, SWL040, SWL050, SWL063, SWL075, SWL090 in J position only. The MTV torque limiter is univocally supplied for every gear unit with the hollow output shaft diameter equal to dimension D shown in the table. Different diameters could be provided upon request, after technical and manufacturing control. Upon request it's possible to assemble an output solid shaft kit, different from the standard one available in the catalogue.



| | NMRL | | | |
|----|---------|---------|---------|-------|
| | 050 | 063 | 075 | 090 |
| I | 2.5 | 2.91 | 3.09 | 3.52 |
| S | 1.81 | 2.2 | 2.36 | 2.76 |
| Dg | 2.2 | 2.44 | 2.68 | 3.15 |
| g | M40x1.5 | M45x1.5 | M50x1.5 | M60x2 |
| b | 0.31 | 0.31 | 0.31 | 0.39 |
| t | 1.11 | 1.11 | 1.23 | 1.51 |
| D | 0.98 | 0.98 | 1.1 | 1.38 |
| T1 | 1.3 | 1.46 | 1.57 | 1.77 |
| T2 | 1.3 | 1.46 | 1.57 | 1.77 |

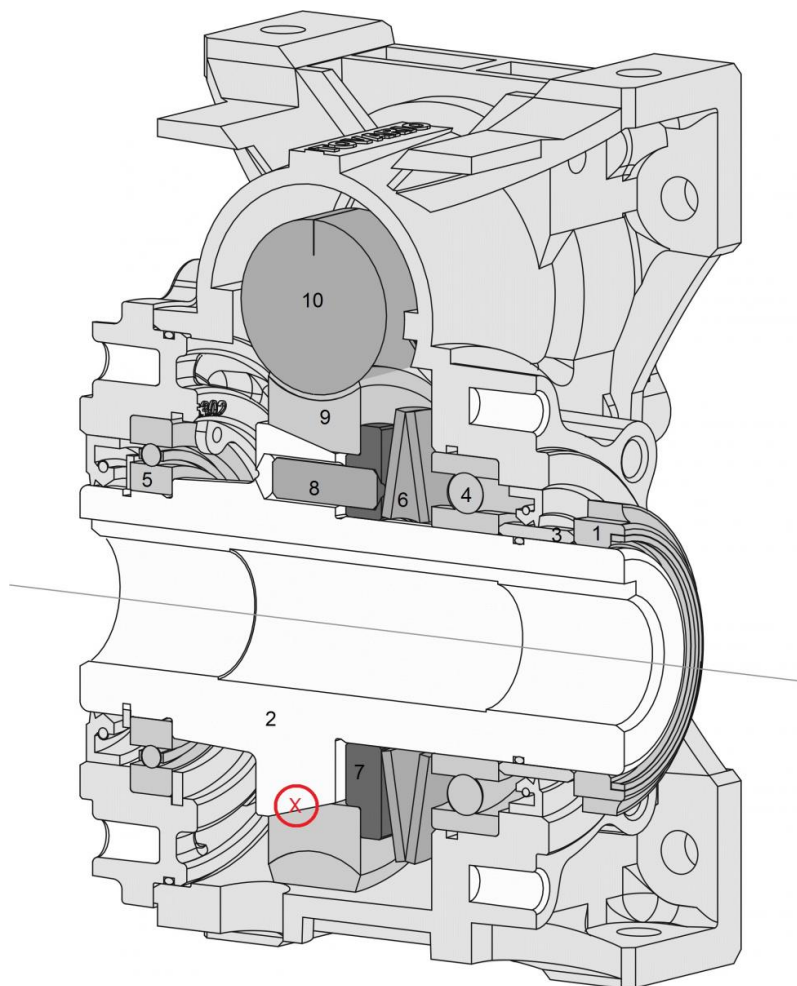
| | SWL | | | | |
|----|---------|---------|---------|---------|-------|
| | 040 | 050 | 063 | 075 | 090 |
| I | 2.17 | 2.5 | 2.91 | 3.09 | 3.52 |
| S | 1.54 | 1.81 | 2.2 | 2.36 | 2.76 |
| Dg | 1.73 | 2.2 | 2.44 | 2.68 | 3.15 |
| g | M30x1.5 | M40x1.5 | M45x1.5 | M50x1.5 | M60x2 |
| b | 0.24 | 0.31 | 0.31 | 0.31 | 0.39 |
| t | 0.82 | 1.11 | 1.11 | 1.23 | 1.51 |
| D | 0.71 | 0.98 | 0.98 | 1.1 | 1.38 |
| T1 | 1.1 | 1.3 | 1.38 | 1.57 | 1.77 |
| T2 | 1.1 | 1.3 | 1.46 | 1.59 | 1.77 |

4.5.2 Operating principle

In this mechanical device the transmission of movement takes place by means of friction between the driving surface (input shaft (10)) and the driven surface (wormwheel (9)). These are subject of a determined compression created by the plate (7) which is generated by two belleville washers (6), arranged in series. The belleville washers action is generated by the bushing (3), driven by the external locking ring nut (1) which is screwed on the output shaft. The shift (X) is guaranteed by the connection between the two conical elements of the hub (2) and the worm wheel.

The transmission of movement has a standard operation up to a maximum admissible torque value (slip torque); over this value the torque limiter starts to work generating a slip between the worm wheel, which continues to spin conducted by the input shaft, and the hub which remains still. Over the slip torque expected from the regulation, the torque limiter is still "on hold": it transmits the set value and it doesn't transmit higher values. This ensures to the machine to restart automatically without external action.

For safety reasons it isn't recommended to install this device in lifting equipment: in case of overloads or irregularities, during the shift, the weight could not be maintained in suspension.



4.5.3 Description

The torque limiter is a mechanical device designed to protect the transmission from movement caused by accidental overloads or irregularities. It is applied to the output of the worm gear reducers and it works as an internal friction applied on the output shaft, which can be adjusted manually through an external locking ring nut. Compared to electronic or external mechanical devices, this solution presents the following advantages:

- Limited additional dimensions compared to the version without the torque limiter;
- Hollow output shaft without changes in terms of diameter compared to the standard version;
- Quick action directly on the transmission that must be protected;
- It has been designed for oil-bath operation, therefore wear-free and reliable;
- Manual adjustment of the slip torque;
- Over the slip torque, the torque limiter is still “on hold”, ensuring the automatic machine restart without external intervention;
- Using the torque limiter, it 's possible also to rotate the gearbox shaft by loosening the external locking ring nut, for example in case of mechanical locks due to worm irreversibility.

The torque limiter device must to be installed as a protection system for accidental events and not as protection of wrong gearbox selection (for example after selecting a gearbox with a low service factor compared with the real needs of the application).

The torque limiter is available for worm gear reducers type NMRL050 / NMRL-P063-075-090 / SWL040-050-063-075-090 and it is applicable in all combined unit configurations provided in the catalogue, usually on the last gearbox. The torque limiter is supplied on the gearbox output shaft in J or K position.

4.5.4 Slip torque setting

A slip torque setting is easily adjustable from the outside through the rotation of the locking ring nut, characterized by 4 marks to define the number of turns (each mark is equivalent to $\frac{1}{4}$ of a turn). The device is preliminary set during the assembly phase. The following factors may affect the setting: temperature and period of adjustment. It is therefore recommended, during the installation, to actually verify the slip torque limit, in according to the real needs of the application.

The standard direction of rotation for the registration of the ring nut is clockwise. Looking frontally from the ring nut side, the torque limiter is in J position when the motor position is on the right side; with the motor on left side the torque limiter is in K position.

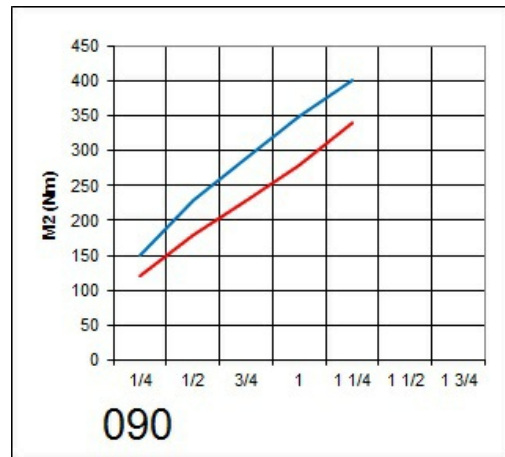
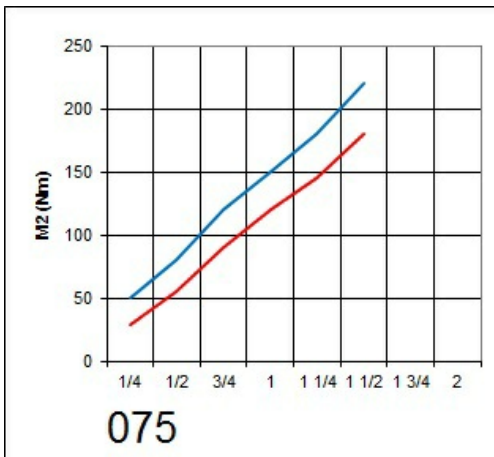
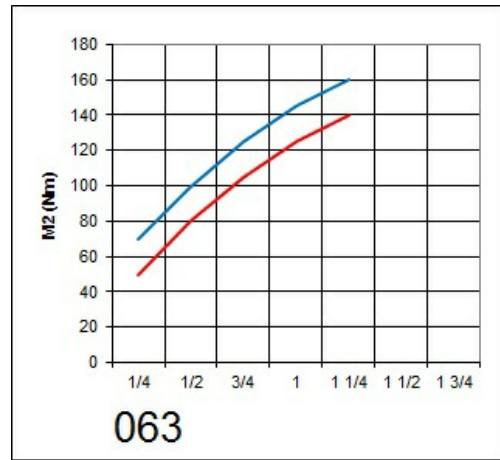
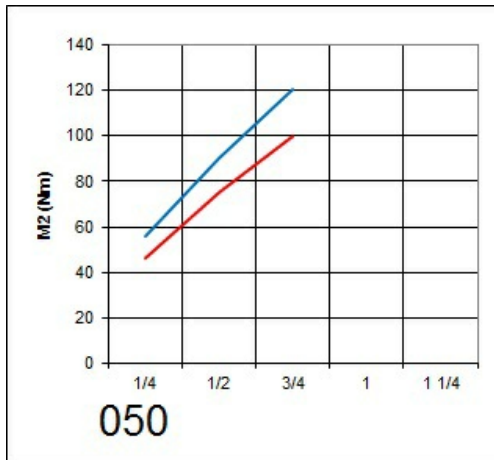
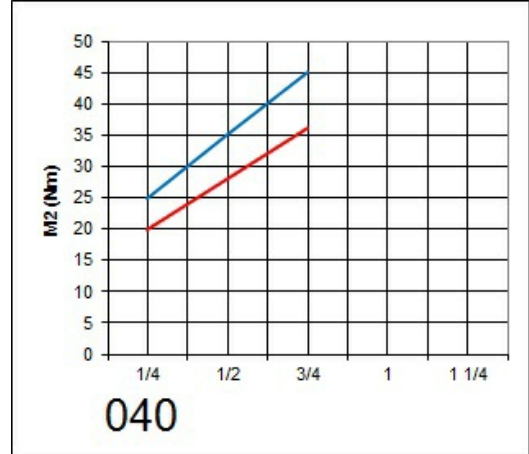
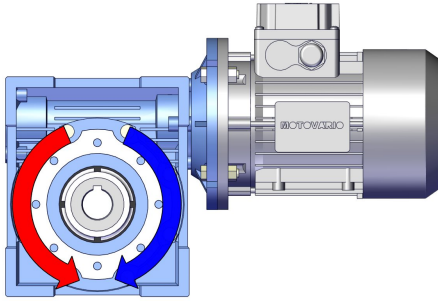
It's recommended for long stops, even if the machine restarts automatically, to return the ring nut to its original position and to set it again.

As previously mentioned, for each reducers size (040-050-063-075-090) the slip torque range depends by the ratio and the direction of rotation of the gearbox, which affects the tolerances between the two conical components that generate the slip (there is an axial component which tends to approach or move their away). Therefore in the setting diagrams are shown two lines which represent the approximate limits within the provided slip torque could change. The slip torque setting must be always checked afterward to determine if the number of turns of the ring nut guarantees the desired slip torque value.

| | Ring nut rotation |
|------------|-------------------|
| 040 | 1/2 (turn) |
| 050 | 1/2 (turn) |
| 063 | 3/4 (turn) |
| 075 | 1 (turn) |
| 090 | 1 (turn) |

4.5.5 Adjustment graphs

IMP: the values (1/4, 1/2, 3/4, 1, 1 1/4 ...) correspond to the center of the column.



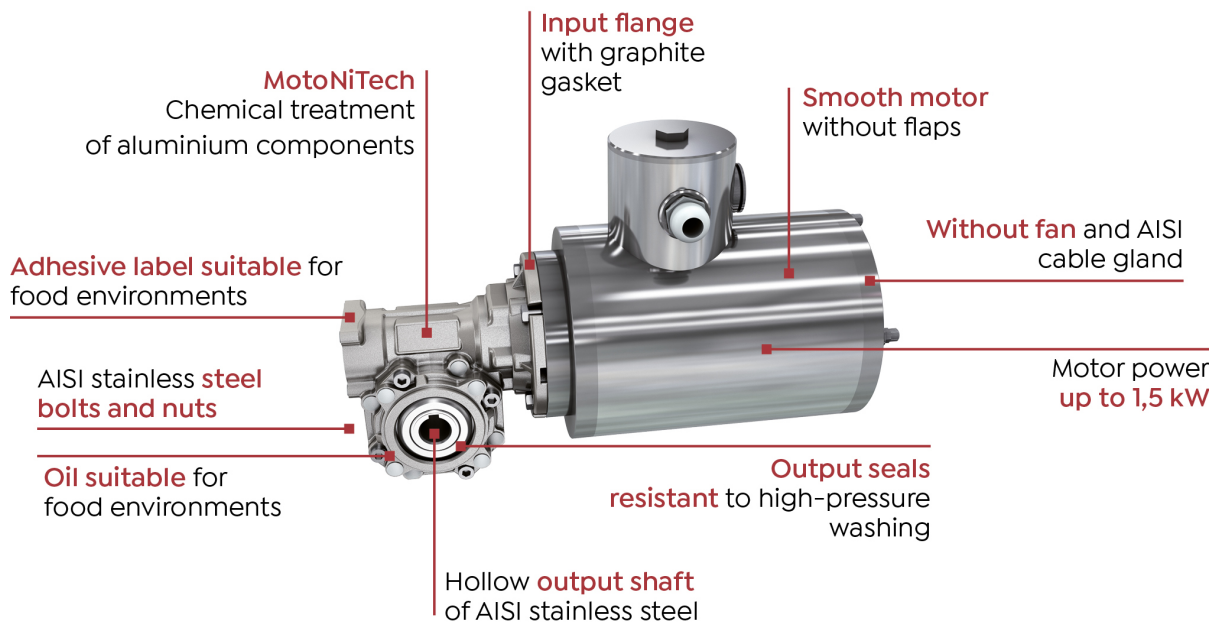
4.6.1 Application description

CLEAN DUTY is a solution developed by Motovario for the food industry and for all fields of application that require very high standards of hygiene. Clean Duty is made of AISI stainless steel and has been properly treated to prevent water and dirt from stagnating and depositing.

Clean Duty is a gearmotor ideally suited to the primary processing stage, for example on the packaging lines for fruit and other fresh foods. Its compact size and high-quality surface treatments ensure high resistance, especially in corrosive environments.

TECHNICAL CHARACTERISTICS

Compact size, adaptability and corrosion-proof materials are the technical characteristics of the Clean Duty gearmotor. Groups available with motor coupling flanges B14. For B5 flanges call MOTOVARIO TECHNICAL SERVICE.



4.6.2 Solutions

The food industry requires high standards of hygiene in all phases of work. The processes of cutting, slicing, dosing, packaging and temperature control (hot or cold) can be supported by the Clean Duty gearmotor made by Motovario, since the aluminium surfaces are chemically treated to ensure high resistance to washing with products with a pH ranging from 2 to 12, as well as with high pressure water. Motors have smooth surfaces with IP66 protection grade. Clean Duty adapts to various configurations and arrangement options.

| | SOLUTION | SW-CD/A | SW-CD/C | SW-CD/D |
|----------------------|---------------------------------------|----------|----------|----------|
| CASING TREATMENT | Blu RAL 5010 / Not painted | Standard | / | / |
| | MotoNiTech TNC17 (Chemical treatment) | / | Standard | Standard |
| OUTPUT SHAFT | Stainless steel | Standard | Standard | Standard |
| BOLTS AND NUTS | Stainless steel | Standard | Standard | Standard |
| LUBRICANT / OIL SEAL | Food grade lubricant | Option | / | Standard |
| | High pressure oil seal | Option | / | Standard |
| MOTOR | Standard motor | Standard | / | / |
| | Stainless steel motor | / | Standard | Standard |

/ - Not available

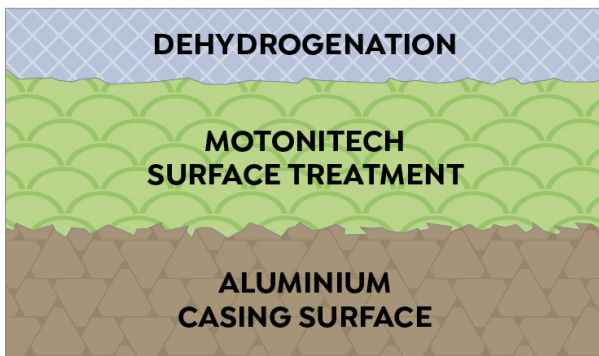
4.6.3 Surface treatment

The surface treatment of the Clean Duty gearmotor makes it ideal for the food industry.

MotoNiTech Treatment

Thanks to the high chemical resistance of the coating and the complete coverage of the surface, this treatment protects against:

- the acids of food products;
- washing with acids and alkalis with PH from 2 to 12;
- high-pressure washing;
- aggressive chemical solutions.



TEST CARRIED OUT AND DETERGENTS SUPPLIED BY ECOLAB





Immersion corrosion tests have been carried out using the most representative detergents and sanitisers in the industrial cleaning market.

TEST PROCEDURE PERFORMED:

Immersion test: Complete immersion in the test fluid.

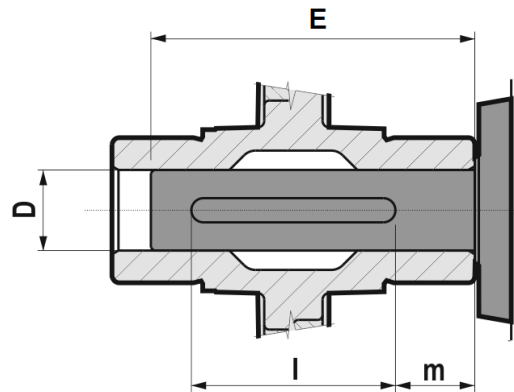
Duration: 28 days, which simulates a product used for 7 years.

Example of washing cycle

| | | |
|---------|---|-----------------------------|
| PHASE 1 |  | Pre-washing |
| PHASE 2 |  | Washing with foam - 15 min. |
| PHASE 3 |  | High-pressure washing |
| PHASE 4 |  | Disinfection |

Assessment

No decoration change (colour, degree and shine), no changes in protective properties according to DIN EN ISO 4628-1.



| | D H8/h6 | E* | l* | m* |
|------------|--------------|------|------|------|
| 025 | 0.43 (H8/g6) | 1.77 | 1.18 | 0.3 |
| 030 | 0.55 | 2.17 | 1.57 | 0.3 |
| 040 | 0.71 | 2.76 | 1.97 | 0.39 |
| | 0.75 | | | |
| 050 | 0.94 | 3.15 | 2.17 | 0.49 |
| | 0.98 | | | |
| 063 | 0.98 | 3.94 | 2.76 | 0.59 |
| | 1.1 | | | |
| 075 | 1.1 | 4.13 | 2.95 | 0.59 |
| | 1.18 | | | |
| | 1.26 | | | |
| 090 | 1.38 | 4.72 | 3.15 | 0.79 |
| | 1.5 | | | |
| | 1.57 | | | |
| 105 | 1.65 | 5.31 | 3.74 | 0.79 |
| 110 | 1.65 | 5.31 | 3.74 | 0.79 |
| 130 | 1.77 | 5.71 | 3.94 | 0.89 |
| 150 | 1.97 | 6.89 | 5.12 | 0.89 |

(*) Suggested values.

5.1 WORM GEARMOTOR

0.12 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 350.0 | 8.5 | 19 | - | - | 5.00 | 160 | 125 | NMRV030 | TS56B4 | - | - |
| 350.0 | 4.9 | 19 | - | - | 5.00 | 92 | 92 | NMRV025 | TS56B4 | - | - |
| 233.0 | 5.8 | 28 | - | - | 7.50 | 160 | 143 | NMRV030 | TS56B4 | - | - |
| 233.0 | 3.4 | 28 | - | - | 7.50 | 92 | 105 | NMRV025 | TS56B4 | - | - |
| 175.0 | 4.5 | 36 | - | - | 10.00 | 160 | 157 | NMRV030 | TS56B4 | - | - |
| 175.0 | 2.8 | 36 | - | - | 10.00 | 101 | 115 | NMRV025 | TS56B4 | - | - |
| 117.0 | 3.2 | 51 | - | - | 15.00 | 160 | 180 | NMRV030 | TS56B4 | - | - |
| 117.0 | 2.0 | 51 | - | - | 15.00 | 101 | 132 | NMRV025 | TS56B4 | - | - |
| 88.0 | 2.4 | 64 | - | - | 20.00 | 151 | 198 | NMRV030 | TS56B4 | - | - |
| 88.0 | 1.6 | 65 | - | - | 20.00 | 101 | 146 | NMRV025 | TS56B4 | - | - |
| 70.0 | 2.5 | 75 | - | - | 25.00 | 185 | 213 | NMRV030 | TS56B4 | - | - |
| 58.0 | 2.1 | 86 | - | - | 30.00 | 177 | 226 | NMRV030 | TS56B4 | - | - |
| 58.0 | 1.3 | 87 | - | - | 30.00 | 109 | 167 | NMRV025 | TS56B4 | - | - |
| 44.0 | 1.5 | 104 | - | - | 40.00 | 160 | 249 | NMRV030 | TS56B4 | - | - |
| 44.0 | 1.0 | 107 | - | - | 40.00 | 109 | 183 | NMRV025 | TS56B4 | - | - |
| 35.0 | 2.6 | 136 | - | - | 50.00 | 353 | 517 | NMRV040 | TS56B4 | - | - |
| 35.0 | 1.2 | 121 | - | - | 50.00 | 151 | 268 | NMRV030 | TS56B4 | - | - |
| 29.0 | 2.1 | 153 | - | - | 60.00 | 319 | 549 | NMRV040 | TS56B4 | - | - |
| 22.0 | 1.5 | 183 | - | - | 80.00 | 277 | 604 | NMRV040 | TS56B4 | - | - |
| 18.0 | 1.2 | 207 | - | - | 100.00 | 244 | 651 | NMRV040 | TS56B4 | - | - |

0.16 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 350.0 | 11.8 | 26 | - | - | 5.00 | 303 | 240 | NMRV040 | TH63A4 | - | - |
| 350.0 | 6.4 | 25 | - | - | 5.00 | 160 | 125 | NMRV030 | TH63A4 | - | - |
| 233.0 | 9.4 | 38 | - | - | 7.50 | 353 | 274 | NMRV040 | TH63A4 | - | - |
| 233.0 | 4.4 | 37 | - | - | 7.50 | 160 | 143 | NMRV030 | TH63A4 | - | - |
| 175.0 | 7.6 | 49 | - | - | 10.00 | 370 | 302 | NMRV040 | TH63A4 | - | - |
| 175.0 | 3.3 | 48 | - | - | 10.00 | 160 | 157 | NMRV030 | TH63A4 | - | - |
| 117.0 | 5.2 | 72 | - | - | 15.00 | 370 | 346 | NMRV040 | TH63A4 | - | - |
| 117.0 | 2.4 | 67 | - | - | 15.00 | 160 | 180 | NMRV030 | TH63A4 | - | - |
| 88.0 | 4.0 | 91 | - | - | 20.00 | 361 | 381 | NMRV040 | TH63A4 | - | - |
| 88.0 | 1.8 | 85 | - | - | 20.00 | 151 | 198 | NMRV030 | TH63A4 | - | - |
| 70.0 | 3.0 | 109 | - | - | 25.00 | 328 | 410 | NMRV040 | TH63A4 | - | - |
| 70.0 | 1.9 | 99 | - | - | 25.00 | 185 | 213 | NMRV030 | TH63A4 | - | - |
| 58.0 | 3.3 | 123 | - | - | 30.00 | 403 | 436 | NMRV040 | TH63A4 | - | - |
| 58.0 | 1.6 | 114 | - | - | 30.00 | 177 | 226 | NMRV030 | TH63A4 | - | - |

5.1 WORM GEARMOTOR

0.16 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 44.0 | 4.4 | 157 | - | - | 40.00 | 689 | 658 | NMRV050 | TH63A4 | - | - |
| 44.0 | 2.5 | 152 | - | - | 40.00 | 378 | 479 | NMRV040 | TH63A4 | - | - |
| 44.0 | 1.2 | 138 | - | - | 40.00 | 160 | 249 | NMRV030 | TH63A4 | - | - |
| 35.0 | 3.5 | 184 | - | - | 50.00 | 647 | 709 | NMRV050 | TH63A4 | - | - |
| 35.0 | 1.9 | 182 | - | - | 50.00 | 353 | 517 | NMRV040 | TH63A4 | - | - |
| 29.0 | 2.9 | 207 | - | - | 60.00 | 605 | 753 | NMRV050 | TH63A4 | - | - |
| 29.0 | 1.6 | 204 | - | - | 60.00 | 319 | 549 | NMRV040 | TH63A4 | - | - |
| 22.0 | 2.2 | 249 | - | - | 80.00 | 546 | 829 | NMRV050 | TH63A4 | - | - |
| 22.0 | 1.1 | 244 | - | - | 80.00 | 277 | 604 | NMRV040 | TH63A4 | - | - |
| 18.0 | 1.6 | 288 | - | - | 100.00 | 462 | 893 | NMRV050 | TH63A4 | - | - |

0.25 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 350.0 | 7.6 | 40 | - | - | 5.00 | 303 | 240 | NMRV040 | TH63B4 | - | - |
| 350.0 | 4.1 | 39 | - | - | 5.00 | 160 | 125 | NMRV030 | TH63B4 | - | - |
| 233.0 | 6.0 | 59 | - | - | 7.50 | 353 | 274 | NMRV040 | TH63B4 | - | - |
| 233.0 | 2.8 | 57 | - | - | 7.50 | 160 | 143 | NMRV030 | TH63B4 | - | - |
| 175.0 | 4.8 | 77 | - | - | 10.00 | 370 | 302 | NMRV040 | TH63B4 | - | - |
| 175.0 | 2.1 | 75 | - | - | 10.00 | 160 | 157 | NMRV030 | TH63B4 | - | - |
| 117.0 | 3.3 | 112 | - | - | 15.00 | 370 | 346 | NMRV040 | TH63B4 | - | - |
| 117.0 | 1.5 | 105 | - | - | 15.00 | 160 | 180 | NMRV030 | TH63B4 | - | - |
| 88.0 | 2.5 | 142 | - | - | 20.00 | 361 | 381 | NMRV040 | TH63B4 | - | - |
| 88.0 | 1.1 | 133 | - | - | 20.00 | 151 | 198 | NMRV030 | TH63B4 | - | - |
| 70.0 | 1.9 | 171 | - | - | 25.00 | 328 | 410 | NMRV040 | TH63B4 | - | - |
| 70.0 | 1.2 | 155 | - | - | 25.00 | 185 | 213 | NMRV030 | TH63B4 | - | - |
| 58.0 | 2.1 | 192 | - | - | 30.00 | 403 | 436 | NMRV040 | TH63B4 | - | - |
| 44.0 | 2.8 | 245 | - | - | 40.00 | 689 | 658 | NMRV050 | TH63B4 | - | - |
| 44.0 | 1.6 | 238 | - | - | 40.00 | 378 | 479 | NMRV040 | TH63B4 | - | - |
| 35.0 | 2.2 | 288 | - | - | 50.00 | 647 | 709 | NMRV050 | TH63B4 | - | - |
| 35.0 | 1.2 | 284 | - | - | 50.00 | 353 | 517 | NMRV040 | TH63B4 | - | - |
| 29.0 | 1.9 | 324 | - | - | 60.00 | 605 | 753 | NMRV050 | TH63B4 | - | - |
| 29.0 | 1.0 | 319 | - | - | 60.00 | 319 | 549 | NMRV040 | TH63B4 | - | - |
| 22.0 | 1.4 | 389 | - | - | 80.00 | 546 | 829 | NMRV050 | TH63B4 | - | - |
| 18.0 | 1.0 | 450 | - | - | 100.00 | 462 | 893 | NMRV050 | TH63B4 | - | - |

5.1 WORM GEARMOTOR

0.33 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 350.0 | 3.1 | 52 | - | - | 5.00 | 160 | 125 | NMRV030 | TH63D4 | - | - |
| 233.0 | 2.1 | 76 | - | - | 7.50 | 160 | 143 | NMRV030 | TH63D4 | - | - |
| 175.0 | 3.7 | 101 | - | - | 10.00 | 370 | 302 | NMRV040 | TH63D4 | - | - |
| 175.0 | 3.7 | 101 | - | - | 10.00 | 370 | 302 | NMRV040 | TH71A4 | - | - |
| 175.0 | 1.6 | 99 | - | - | 10.00 | 160 | 157 | NMRV030 | TH63D4 | - | - |
| 117.0 | 2.5 | 148 | - | - | 15.00 | 370 | 346 | NMRV040 | TH63D4 | - | - |
| 117.0 | 2.5 | 148 | - | - | 15.00 | 370 | 346 | NMRV040 | TH71A4 | - | - |
| 117.0 | 1.2 | 139 | - | - | 15.00 | 160 | 180 | NMRV030 | TH63D4 | - | - |
| 88.0 | 3.5 | 190 | - | - | 20.00 | 656 | 522 | NMRV050 | TH71A4 | - | - |
| 88.0 | 1.9 | 188 | - | - | 20.00 | 361 | 381 | NMRV040 | TH63D4 | - | - |
| 88.0 | 1.9 | 188 | - | - | 20.00 | 361 | 381 | NMRV040 | TH71A4 | - | - |
| 70.0 | 2.6 | 229 | - | - | 25.00 | 597 | 563 | NMRV050 | TH71A4 | - | - |
| 70.0 | 1.5 | 226 | - | - | 25.00 | 328 | 410 | NMRV040 | TH63D4 | - | - |
| 70.0 | 1.5 | 226 | - | - | 25.00 | 328 | 410 | NMRV040 | TH71A4 | - | - |
| 58.0 | 2.8 | 260 | - | - | 30.00 | 740 | 598 | NMRV050 | TH71A4 | - | - |
| 58.0 | 1.6 | 253 | - | - | 30.00 | 403 | 436 | NMRV040 | TH63D4 | - | - |
| 58.0 | 1.6 | 253 | - | - | 30.00 | 403 | 436 | NMRV040 | TH71A4 | - | - |
| 44.0 | 3.7 | 343 | - | - | 40.00 | 1261 | 860 | NMRV-P063 | TH71A4 | - | - |
| 44.0 | 2.1 | 323 | - | - | 40.00 | 689 | 658 | NMRV050 | TH63D4 | - | - |
| 44.0 | 2.1 | 323 | - | - | 40.00 | 689 | 658 | NMRV050 | TH71A4 | - | - |
| 44.0 | 1.2 | 314 | - | - | 40.00 | 378 | 479 | NMRV040 | TH63D4 | - | - |
| 44.0 | 1.2 | 314 | - | - | 40.00 | 378 | 479 | NMRV040 | TH71A4 | - | - |
| 35.0 | 3.0 | 405 | - | - | 50.00 | 1208 | 927 | NMRV-P063 | TH71A4 | - | - |
| 35.0 | 1.7 | 380 | - | - | 50.00 | 647 | 709 | NMRV050 | TH63D4 | - | - |
| 35.0 | 1.7 | 380 | - | - | 50.00 | 647 | 709 | NMRV050 | TH71A4 | - | - |
| 29.0 | 3.7 | 480 | - | - | 60.00 | 1778 | 1162 | NMRV-P075 | TH71A4 | - | - |
| 29.0 | 2.5 | 458 | - | - | 60.00 | 1135 | 985 | NMRV-P063 | TH71A4 | - | - |
| 29.0 | 1.4 | 428 | - | - | 60.00 | 605 | 753 | NMRV050 | TH63D4 | - | - |
| 29.0 | 1.4 | 428 | - | - | 60.00 | 605 | 753 | NMRV050 | TH71A4 | - | - |
| 22.0 | 2.8 | 592 | - | - | 80.00 | 1632 | 1279 | NMRV-P075 | TH71A4 | - | - |
| 22.0 | 1.8 | 564 | - | - | 80.00 | 1027 | 1084 | NMRV-P063 | TH71A4 | - | - |
| 22.0 | 1.1 | 513 | - | - | 80.00 | 546 | 829 | NMRV050 | TH63D4 | - | - |
| 22.0 | 1.1 | 513 | - | - | 80.00 | 546 | 829 | NMRV050 | TH71A4 | - | - |
| 18.0 | 2.2 | 681 | - | - | 100.00 | 1517 | 1378 | NMRV-P075 | TH71A4 | - | - |
| 18.0 | 1.6 | 636 | - | - | 100.00 | 992 | 1168 | NMRV-P063 | TH71A4 | - | - |

5.1 WORM GEARMOTOR

0.5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 350.0 | 3.8 | 80 | - | - | 5.00 | 303 | 240 | NMRV040 | TH71B4 | - | - |
| 233.0 | 3.0 | 117 | - | - | 7.50 | 353 | 274 | NMRV040 | TH71B4 | - | - |
| 175.0 | 2.4 | 153 | - | - | 10.00 | 370 | 302 | NMRV040 | TH71B4 | - | - |
| 117.0 | 3.0 | 224 | - | - | 15.00 | 681 | 475 | NMRV050 | TH71B4 | - | - |
| 117.0 | 1.7 | 224 | - | - | 15.00 | 370 | 346 | NMRV040 | TH71B4 | - | - |
| 88.0 | 2.3 | 288 | - | - | 20.00 | 656 | 522 | NMRV050 | TH71B4 | - | - |
| 88.0 | 1.3 | 285 | - | - | 20.00 | 361 | 381 | NMRV040 | TH71B4 | - | - |
| 70.0 | 3.1 | 359 | - | - | 25.00 | 1124 | 736 | NMRV-P063 | TH71B4 | - | - |
| 70.0 | 1.7 | 347 | - | - | 25.00 | 597 | 563 | NMRV050 | TH71B4 | - | - |
| 58.0 | 3.3 | 410 | - | - | 30.00 | 1345 | 782 | NMRV-P063 | TH71B4 | - | - |
| 58.0 | 1.9 | 394 | - | - | 30.00 | 740 | 598 | NMRV050 | TH71B4 | - | - |
| 58.0 | 1.1 | 384 | - | - | 30.00 | 403 | 436 | NMRV040 | TH71B4 | - | - |
| 44.0 | 3.8 | 534 | - | - | 40.00 | 2029 | 1015 | NMRV-P075 | TH71B4 | - | - |
| 44.0 | 2.4 | 519 | - | - | 40.00 | 1261 | 860 | NMRV-P063 | TH71B4 | - | - |
| 44.0 | 1.4 | 490 | - | - | 40.00 | 689 | 658 | NMRV050 | TH71B4 | - | - |
| 35.0 | 2.9 | 640 | - | - | 50.00 | 1881 | 1094 | NMRV-P075 | TH71B4 | - | - |
| 35.0 | 2.0 | 613 | - | - | 50.00 | 1208 | 927 | NMRV-P063 | TH71B4 | - | - |
| 35.0 | 1.1 | 576 | - | - | 50.00 | 647 | 709 | NMRV050 | TH71B4 | - | - |
| 29.0 | 2.4 | 727 | - | - | 60.00 | 1778 | 1162 | NMRV-P075 | TH71B4 | - | - |
| 29.0 | 1.6 | 695 | - | - | 60.00 | 1135 | 985 | NMRV-P063 | TH71B4 | - | - |
| 22.0 | 1.8 | 897 | - | - | 80.00 | 1632 | 1279 | NMRV-P075 | TH71B4 | - | - |
| 22.0 | 1.2 | 855 | - | - | 80.00 | 1027 | 1084 | NMRV-P063 | TH71B4 | - | - |
| 18.0 | 1.5 | 1032 | - | - | 100.00 | 1517 | 1378 | NMRV-P075 | TH71B4 | - | - |
| 18.0 | 1.0 | 963 | - | - | 100.00 | 992 | 1168 | NMRV-P063 | TH71B4 | - | - |

0.75 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 350.0 | 2.5 | 120 | - | - | 5.00 | 303 | 240 | NMRV040 | TH71C4 | - | - |
| 233.0 | 3.6 | 178 | - | - | 7.50 | 647 | 377 | NMRV050 | TH71C4 | - | - |
| 233.0 | 3.6 | 178 | - | - | 7.50 | 647 | 377 | NMRV050 | TH80A4 | - | - |
| 233.0 | 2.0 | 176 | - | - | 7.50 | 353 | 274 | NMRV040 | TH71C4 | - | - |
| 175.0 | 2.8 | 235 | - | - | 10.00 | 664 | 415 | NMRV050 | TH71C4 | - | - |
| 175.0 | 2.8 | 235 | - | - | 10.00 | 664 | 415 | NMRV050 | TH80A4 | - | - |
| 175.0 | 1.6 | 230 | - | - | 10.00 | 370 | 302 | NMRV040 | TH71C4 | - | - |
| 117.0 | 3.6 | 343 | - | - | 15.00 | 1236 | 620 | NMRV-P063 | TH71C4 | - | - |
| 117.0 | 3.6 | 343 | - | - | 15.00 | 1236 | 620 | NMRV-P063 | TH80A4 | - | - |
| 117.0 | 2.0 | 336 | - | - | 15.00 | 681 | 475 | NMRV050 | TH71C4 | - | - |

0.75 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 117.0 | 2.0 | 336 | - | - | 15.00 | 681 | 475 | NMRV050 | TH80A4 | - | - |
| 117.0 | 1.1 | 336 | - | - | 15.00 | 370 | 346 | NMRV040 | TH71C4 | - | - |
| 88.0 | 2.7 | 446 | - | - | 20.00 | 1225 | 683 | NMRV-P063 | TH71C4 | - | - |
| 88.0 | 2.7 | 446 | - | - | 20.00 | 1225 | 683 | NMRV-P063 | TH80A4 | - | - |
| 88.0 | 1.5 | 432 | - | - | 20.00 | 656 | 522 | NMRV050 | TH71C4 | - | - |
| 88.0 | 1.5 | 432 | - | - | 20.00 | 656 | 522 | NMRV050 | TH80A4 | - | - |
| 70.0 | 3.2 | 551 | - | - | 25.00 | 1784 | 868 | NMRV-P075 | TH71C4 | - | - |
| 70.0 | 3.2 | 551 | - | - | 25.00 | 1784 | 868 | NMRV-P075 | TH80A4 | - | - |
| 70.0 | 2.1 | 539 | - | - | 25.00 | 1124 | 736 | NMRV-P063 | TH71C4 | - | - |
| 70.0 | 2.1 | 539 | - | - | 25.00 | 1124 | 736 | NMRV-P063 | TH80A4 | - | - |
| 70.0 | 1.1 | 520 | - | - | 25.00 | 597 | 563 | NMRV050 | TH71C4 | - | - |
| 70.0 | 1.1 | 520 | - | - | 25.00 | 597 | 563 | NMRV050 | TH80A4 | - | - |
| 58.0 | 3.2 | 631 | - | - | 30.00 | 2028 | 923 | NMRV-P075 | TH71C4 | - | - |
| 58.0 | 3.2 | 631 | - | - | 30.00 | 2028 | 923 | NMRV-P075 | TH80A4 | - | - |
| 58.0 | 2.2 | 615 | - | - | 30.00 | 1345 | 782 | NMRV-P063 | TH71C4 | - | - |
| 58.0 | 2.2 | 615 | - | - | 30.00 | 1345 | 782 | NMRV-P063 | TH80A4 | - | - |
| 58.0 | 1.3 | 592 | - | - | 30.00 | 740 | 598 | NMRV050 | TH71C4 | - | - |
| 58.0 | 1.3 | 592 | - | - | 30.00 | 740 | 598 | NMRV050 | TH80A4 | - | - |
| 44.0 | 2.5 | 800 | - | - | 40.00 | 2029 | 1015 | NMRV-P075 | TH71C4 | - | - |
| 44.0 | 2.5 | 800 | - | - | 40.00 | 2029 | 1015 | NMRV-P075 | TH80A4 | - | - |
| 44.0 | 1.6 | 779 | - | - | 40.00 | 1261 | 860 | NMRV-P063 | TH71C4 | - | - |
| 44.0 | 1.6 | 779 | - | - | 40.00 | 1261 | 860 | NMRV-P063 | TH80A4 | - | - |
| 35.0 | 3.2 | 997 | - | - | 50.00 | 3145 | 1210 | NMRV-P090 | TH80A4 | - | - |
| 35.0 | 2.0 | 960 | - | - | 50.00 | 1881 | 1094 | NMRV-P075 | TH71C4 | - | - |
| 35.0 | 2.0 | 960 | - | - | 50.00 | 1881 | 1094 | NMRV-P075 | TH80A4 | - | - |
| 35.0 | 1.3 | 919 | - | - | 50.00 | 1208 | 927 | NMRV-P063 | TH71C4 | - | - |
| 35.0 | 1.3 | 919 | - | - | 50.00 | 1208 | 927 | NMRV-P063 | TH80A4 | - | - |
| 29.0 | 2.6 | 1152 | - | - | 60.00 | 2960 | 1286 | NMRV-P090 | TH80A4 | - | - |
| 29.0 | 1.6 | 1091 | - | - | 60.00 | 1778 | 1162 | NMRV-P075 | TH71C4 | - | - |
| 29.0 | 1.6 | 1091 | - | - | 60.00 | 1778 | 1162 | NMRV-P075 | TH80A4 | - | - |
| 29.0 | 1.1 | 1042 | - | - | 60.00 | 1135 | 985 | NMRV-P063 | TH71C4 | - | - |
| 29.0 | 1.1 | 1042 | - | - | 60.00 | 1135 | 985 | NMRV-P063 | TH80A4 | - | - |
| 22.0 | 2.9 | 1497 | - | - | 80.00 | 4330 | 1789 | NMRV-P110 | TH80A4 | - | - |
| 22.0 | 1.7 | 1411 | - | - | 80.00 | 2397 | 1416 | NMRV-P090 | TH80A4 | - | - |
| 22.0 | 1.2 | 1346 | - | - | 80.00 | 1632 | 1279 | NMRV-P075 | TH71C4 | - | - |
| 22.0 | 1.2 | 1346 | - | - | 80.00 | 1632 | 1279 | NMRV-P075 | TH80A4 | - | - |
| 18.0 | 2.3 | 1763 | - | - | 100.00 | 4061 | 1927 | NMRV-P110 | TH80A4 | - | - |
| 18.0 | 1.4 | 1655 | - | - | 100.00 | 2271 | 1525 | NMRV-P090 | TH80A4 | - | - |

5.1 WORM GEARMOTOR

1 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 350.0 | 3.6 | 160 | - | - | 5.00 | 572 | 329 | NMRV050 | TP80B4 | - | - |
| 350.0 | 3.6 | 160 | - | - | 5.00 | 572 | 329 | NMRV050 | TP80B4 | - | - |
| 350.0 | 3.6 | 160 | - | - | 5.00 | 572 | 329 | NMRV050 | TP80B4 | - | - |
| 233.0 | 2.7 | 238 | - | - | 7.50 | 647 | 377 | NMRV050 | TP80B4 | - | - |
| 233.0 | 2.7 | 238 | - | - | 7.50 | 647 | 377 | NMRV050 | TP80B4 | - | - |
| 233.0 | 2.7 | 238 | - | - | 7.50 | 647 | 377 | NMRV050 | TP80B4 | - | - |
| 175.0 | 3.5 | 315 | - | - | 10.00 | 1108 | 542 | NMRV-P063 | TP80B4 | - | - |
| 175.0 | 3.5 | 315 | - | - | 10.00 | 1108 | 542 | NMRV-P063 | TP80B4 | - | - |
| 175.0 | 3.5 | 315 | - | - | 10.00 | 1108 | 542 | NMRV-P063 | TP80B4 | - | - |
| 175.0 | 2.1 | 313 | - | - | 10.00 | 664 | 415 | NMRV050 | TP80B4 | - | - |
| 175.0 | 2.1 | 313 | - | - | 10.00 | 664 | 415 | NMRV050 | TP80B4 | - | - |
| 175.0 | 2.1 | 313 | - | - | 10.00 | 664 | 415 | NMRV050 | TP80B4 | - | - |
| 117.0 | 2.7 | 457 | - | - | 15.00 | 1236 | 620 | NMRV-P063 | TP80B4 | - | - |
| 117.0 | 2.7 | 457 | - | - | 15.00 | 1236 | 620 | NMRV-P063 | TP80B4 | - | - |
| 117.0 | 2.7 | 457 | - | - | 15.00 | 1236 | 620 | NMRV-P063 | TP80B4 | - | - |
| 117.0 | 1.5 | 448 | - | - | 15.00 | 681 | 475 | NMRV050 | TP80B4 | - | - |
| 117.0 | 1.5 | 448 | - | - | 15.00 | 681 | 475 | NMRV050 | TP80B4 | - | - |
| 117.0 | 1.5 | 448 | - | - | 15.00 | 681 | 475 | NMRV050 | TP80B4 | - | - |
| 88.0 | 3.2 | 602 | - | - | 20.00 | 1953 | 806 | NMRV-P075 | TP80B4 | - | - |
| 88.0 | 3.2 | 602 | - | - | 20.00 | 1953 | 806 | NMRV-P075 | TP80B4 | - | - |
| 88.0 | 3.2 | 602 | - | - | 20.00 | 1953 | 806 | NMRV-P075 | TP80B4 | - | - |
| 88.0 | 2.1 | 595 | - | - | 20.00 | 1225 | 683 | NMRV-P063 | TP80B4 | - | - |
| 88.0 | 2.1 | 595 | - | - | 20.00 | 1225 | 683 | NMRV-P063 | TP80B4 | - | - |
| 88.0 | 2.1 | 595 | - | - | 20.00 | 1225 | 683 | NMRV-P063 | TP80B4 | - | - |
| 88.0 | 1.1 | 576 | - | - | 20.00 | 656 | 522 | NMRV050 | TP80B4 | - | - |
| 88.0 | 1.1 | 576 | - | - | 20.00 | 656 | 522 | NMRV050 | TP80B4 | - | - |
| 88.0 | 1.1 | 576 | - | - | 20.00 | 656 | 522 | NMRV050 | TP80B4 | - | - |
| 70.0 | 2.4 | 735 | - | - | 25.00 | 1784 | 868 | NMRV-P075 | TP80B4 | - | - |
| 70.0 | 2.4 | 735 | - | - | 25.00 | 1784 | 868 | NMRV-P075 | TP80B4 | - | - |
| 70.0 | 2.4 | 735 | - | - | 25.00 | 1784 | 868 | NMRV-P075 | TP80B4 | - | - |
| 70.0 | 1.6 | 719 | - | - | 25.00 | 1124 | 736 | NMRV-P063 | TP80B4 | - | - |
| 70.0 | 1.6 | 719 | - | - | 25.00 | 1124 | 736 | NMRV-P063 | TP80B4 | - | - |
| 70.0 | 1.6 | 719 | - | - | 25.00 | 1124 | 736 | NMRV-P063 | TP80B4 | - | - |
| 58.0 | 2.4 | 841 | - | - | 30.00 | 2028 | 923 | NMRV-P075 | TP80B4 | - | - |
| 58.0 | 2.4 | 841 | - | - | 30.00 | 2028 | 923 | NMRV-P075 | TP80B4 | - | - |
| 58.0 | 2.4 | 841 | - | - | 30.00 | 2028 | 923 | NMRV-P075 | TP80B4 | - | - |
| 58.0 | 1.6 | 820 | - | - | 30.00 | 1345 | 782 | NMRV-P063 | TP80B4 | - | - |
| 58.0 | 1.6 | 820 | - | - | 30.00 | 1345 | 782 | NMRV-P063 | TP80B4 | - | - |

5.1 WORM GEARMOTOR

1 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 58.0 | 1.6 | 820 | - | - | 30.00 | 1345 | 782 | NMRV-P063 | TP80B4 | - | - |
| 44.0 | 3.0 | 1107 | - | - | 40.00 | 3330 | 1123 | NMRV-P090 | TP80B4 | - | - |
| 44.0 | 3.0 | 1107 | - | - | 40.00 | 3330 | 1123 | NMRV-P090 | TP80B4 | - | - |
| 44.0 | 3.0 | 1107 | - | - | 40.00 | 3330 | 1123 | NMRV-P090 | TP80B4 | - | - |
| 44.0 | 1.9 | 1067 | - | - | 40.00 | 2029 | 1015 | NMRV-P075 | TP80B4 | - | - |
| 44.0 | 1.9 | 1067 | - | - | 40.00 | 2029 | 1015 | NMRV-P075 | TP80B4 | - | - |
| 44.0 | 1.9 | 1067 | - | - | 40.00 | 2029 | 1015 | NMRV-P075 | TP80B4 | - | - |
| 44.0 | 1.2 | 1038 | - | - | 40.00 | 1261 | 860 | NMRV-P063 | TP80B4 | - | - |
| 44.0 | 1.2 | 1038 | - | - | 40.00 | 1261 | 860 | NMRV-P063 | TP80B4 | - | - |
| 44.0 | 1.2 | 1038 | - | - | 40.00 | 1261 | 860 | NMRV-P063 | TP80B4 | - | - |
| 35.0 | 2.4 | 1330 | - | - | 50.00 | 3145 | 1210 | NMRV-P090 | TP80B4 | - | - |
| 35.0 | 2.4 | 1330 | - | - | 50.00 | 3145 | 1210 | NMRV-P090 | TP80B4 | - | - |
| 35.0 | 2.4 | 1330 | - | - | 50.00 | 3145 | 1210 | NMRV-P090 | TP80B4 | - | - |
| 35.0 | 1.5 | 1280 | - | - | 50.00 | 1881 | 1094 | NMRV-P075 | TP80B4 | - | - |
| 35.0 | 1.5 | 1280 | - | - | 50.00 | 1881 | 1094 | NMRV-P075 | TP80B4 | - | - |
| 35.0 | 1.5 | 1280 | - | - | 50.00 | 1881 | 1094 | NMRV-P075 | TP80B4 | - | - |
| 29.0 | 3.2 | 1618 | - | - | 60.00 | 5180 | 1625 | NMRV-P110 | TP80B4 | - | - |
| 29.0 | 3.2 | 1618 | - | - | 60.00 | 5180 | 1625 | NMRV-P110 | TP80B4 | - | - |
| 29.0 | 3.2 | 1618 | - | - | 60.00 | 5180 | 1625 | NMRV-P110 | TP80B4 | - | - |
| 29.0 | 1.9 | 1536 | - | - | 60.00 | 2960 | 1286 | NMRV-P090 | TP80B4 | - | - |
| 29.0 | 1.9 | 1536 | - | - | 60.00 | 2960 | 1286 | NMRV-P090 | TP80B4 | - | - |
| 29.0 | 1.9 | 1536 | - | - | 60.00 | 2960 | 1286 | NMRV-P090 | TP80B4 | - | - |
| 29.0 | 1.2 | 1454 | - | - | 60.00 | 1778 | 1162 | NMRV-P075 | TP80B4 | - | - |
| 29.0 | 1.2 | 1454 | - | - | 60.00 | 1778 | 1162 | NMRV-P075 | TP80B4 | - | - |
| 29.0 | 1.2 | 1454 | - | - | 60.00 | 1778 | 1162 | NMRV-P075 | TP80B4 | - | - |
| 22.0 | 2.2 | 1996 | - | - | 80.00 | 4330 | 1789 | NMRV-P110 | TP80B4 | - | - |
| 22.0 | 2.2 | 1996 | - | - | 80.00 | 4330 | 1789 | NMRV-P110 | TP80B4 | - | - |
| 22.0 | 2.2 | 1996 | - | - | 80.00 | 4330 | 1789 | NMRV-P110 | TP80B4 | - | - |
| 22.0 | 1.3 | 1881 | - | - | 80.00 | 2397 | 1416 | NMRV-P090 | TP80B4 | - | - |
| 22.0 | 1.3 | 1881 | - | - | 80.00 | 2397 | 1416 | NMRV-P090 | TP80B4 | - | - |
| 22.0 | 1.3 | 1881 | - | - | 80.00 | 2397 | 1416 | NMRV-P090 | TP80B4 | - | - |
| 18.0 | 1.7 | 2351 | - | - | 100.00 | 4061 | 1927 | NMRV-P110 | TP80B4 | - | - |
| 18.0 | 1.7 | 2351 | - | - | 100.00 | 4061 | 1927 | NMRV-P110 | TP80B4 | - | - |
| 18.0 | 1.7 | 2351 | - | - | 100.00 | 4061 | 1927 | NMRV-P110 | TP80B4 | - | - |
| 18.0 | 1.0 | 2207 | - | - | 100.00 | 2271 | 1525 | NMRV-P090 | TP80B4 | - | - |
| 18.0 | 1.0 | 2207 | - | - | 100.00 | 2271 | 1525 | NMRV-P090 | TP80B4 | - | - |
| 18.0 | 1.0 | 2207 | - | - | 100.00 | 2271 | 1525 | NMRV-P090 | TP80B4 | - | - |

5.1 WORM GEARMOTOR

1.5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 233.0 | 3.0 | 362 | - | - | 7.50 | 1076 | 492 | NMRV-P063 | TP90S4 | - | - |
| 233.0 | 3.0 | 362 | - | - | 7.50 | 1076 | 492 | NMRV-P063 | TP90S4 | - | - |
| 233.0 | 3.0 | 362 | - | - | 7.50 | 1076 | 492 | NMRV-P063 | TP90S4 | - | - |
| 175.0 | 3.5 | 478 | - | - | 10.00 | 1656 | 640 | NMRV-P075 | TP90S4 | - | - |
| 175.0 | 3.5 | 478 | - | - | 10.00 | 1656 | 640 | NMRV-P075 | TP90S4 | - | - |
| 175.0 | 3.5 | 478 | - | - | 10.00 | 1656 | 640 | NMRV-P075 | TP90S4 | - | - |
| 175.0 | 2.3 | 472 | - | - | 10.00 | 1108 | 542 | NMRV-P063 | TP90S4 | - | - |
| 175.0 | 2.3 | 472 | - | - | 10.00 | 1108 | 542 | NMRV-P063 | TP90S4 | - | - |
| 175.0 | 2.3 | 472 | - | - | 10.00 | 1108 | 542 | NMRV-P063 | TP90S4 | - | - |
| 117.0 | 2.7 | 700 | - | - | 15.00 | 1900 | 732 | NMRV-P075 | TP90S4 | - | - |
| 117.0 | 2.7 | 700 | - | - | 15.00 | 1900 | 732 | NMRV-P075 | TP90S4 | - | - |
| 117.0 | 2.7 | 700 | - | - | 15.00 | 1900 | 732 | NMRV-P075 | TP90S4 | - | - |
| 117.0 | 1.8 | 686 | - | - | 15.00 | 1236 | 620 | NMRV-P063 | TP90S4 | - | - |
| 117.0 | 1.8 | 686 | - | - | 15.00 | 1236 | 620 | NMRV-P063 | TP90S4 | - | - |
| 117.0 | 1.8 | 686 | - | - | 15.00 | 1236 | 620 | NMRV-P063 | TP90S4 | - | - |
| 88.0 | 3.6 | 925 | - | - | 20.00 | 3288 | 892 | NMRV-P090 | TP90S4 | - | - |
| 88.0 | 3.6 | 925 | - | - | 20.00 | 3288 | 892 | NMRV-P090 | TP90S4 | - | - |
| 88.0 | 3.6 | 925 | - | - | 20.00 | 3288 | 892 | NMRV-P090 | TP90S4 | - | - |
| 88.0 | 2.2 | 904 | - | - | 20.00 | 1953 | 806 | NMRV-P075 | TP90S4 | - | - |
| 88.0 | 2.2 | 904 | - | - | 20.00 | 1953 | 806 | NMRV-P075 | TP90S4 | - | - |
| 88.0 | 2.2 | 904 | - | - | 20.00 | 1953 | 806 | NMRV-P075 | TP90S4 | - | - |
| 88.0 | 1.4 | 893 | - | - | 20.00 | 1225 | 683 | NMRV-P063 | TP90S4 | - | - |
| 88.0 | 1.4 | 893 | - | - | 20.00 | 1225 | 683 | NMRV-P063 | TP90S4 | - | - |
| 88.0 | 1.4 | 893 | - | - | 20.00 | 1225 | 683 | NMRV-P063 | TP90S4 | - | - |
| 70.0 | 2.8 | 1130 | - | - | 25.00 | 3145 | 961 | NMRV-P090 | TP90S4 | - | - |
| 70.0 | 2.8 | 1130 | - | - | 25.00 | 3145 | 961 | NMRV-P090 | TP90S4 | - | - |
| 70.0 | 2.8 | 1130 | - | - | 25.00 | 3145 | 961 | NMRV-P090 | TP90S4 | - | - |
| 70.0 | 1.6 | 1103 | - | - | 25.00 | 1784 | 868 | NMRV-P075 | TP90S4 | - | - |
| 70.0 | 1.6 | 1103 | - | - | 25.00 | 1784 | 868 | NMRV-P075 | TP90S4 | - | - |
| 70.0 | 1.6 | 1103 | - | - | 25.00 | 1784 | 868 | NMRV-P075 | TP90S4 | - | - |
| 70.0 | 1.0 | 1078 | - | - | 25.00 | 1124 | 736 | NMRV-P063 | TP90S4 | - | - |
| 70.0 | 1.0 | 1078 | - | - | 25.00 | 1124 | 736 | NMRV-P063 | TP90S4 | - | - |
| 70.0 | 1.0 | 1078 | - | - | 25.00 | 1124 | 736 | NMRV-P063 | TP90S4 | - | - |
| 58.0 | 2.8 | 1294 | - | - | 30.00 | 3632 | 1021 | NMRV-P090 | TP90S4 | - | - |
| 58.0 | 2.8 | 1294 | - | - | 30.00 | 3632 | 1021 | NMRV-P090 | TP90S4 | - | - |
| 58.0 | 2.8 | 1294 | - | - | 30.00 | 3632 | 1021 | NMRV-P090 | TP90S4 | - | - |
| 58.0 | 1.6 | 1262 | - | - | 30.00 | 2028 | 923 | NMRV-P075 | TP90S4 | - | - |
| 58.0 | 1.6 | 1262 | - | - | 30.00 | 2028 | 923 | NMRV-P075 | TP90S4 | - | - |

5.1 WORM GEARMOTOR

1.5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 58.0 | 1.6 | 1262 | - | - | 30.00 | 2028 | 923 | NMRV-P075 | TP90S4 | - | - |
| 58.0 | 1.1 | 1229 | - | - | 30.00 | 1345 | 782 | NMRV-P063 | TP90S4 | - | - |
| 58.0 | 1.1 | 1229 | - | - | 30.00 | 1345 | 782 | NMRV-P063 | TP90S4 | - | - |
| 58.0 | 1.1 | 1229 | - | - | 30.00 | 1345 | 782 | NMRV-P063 | TP90S4 | - | - |
| 44.0 | 3.4 | 1726 | - | - | 40.00 | 5903 | 1420 | NMRV-P110 | TP90S4 | - | - |
| 44.0 | 3.4 | 1726 | - | - | 40.00 | 5903 | 1420 | NMRV-P110 | TP90S4 | - | - |
| 44.0 | 3.4 | 1726 | - | - | 40.00 | 5903 | 1420 | NMRV-P110 | TP90S4 | - | - |
| 44.0 | 2.0 | 1661 | - | - | 40.00 | 3330 | 1123 | NMRV-P090 | TP90S4 | - | - |
| 44.0 | 2.0 | 1661 | - | - | 40.00 | 3330 | 1123 | NMRV-P090 | TP90S4 | - | - |
| 44.0 | 2.0 | 1661 | - | - | 40.00 | 3330 | 1123 | NMRV-P090 | TP90S4 | - | - |
| 44.0 | 1.3 | 1601 | - | - | 40.00 | 2029 | 1015 | NMRV-P075 | TP90S4 | - | - |
| 44.0 | 1.3 | 1601 | - | - | 40.00 | 2029 | 1015 | NMRV-P075 | TP90S4 | - | - |
| 44.0 | 1.3 | 1601 | - | - | 40.00 | 2029 | 1015 | NMRV-P075 | TP90S4 | - | - |
| 35.0 | 2.7 | 2076 | - | - | 50.00 | 5550 | 1529 | NMRV-P110 | TP90S4 | - | - |
| 35.0 | 2.7 | 2076 | - | - | 50.00 | 5550 | 1529 | NMRV-P110 | TP90S4 | - | - |
| 35.0 | 2.7 | 2076 | - | - | 50.00 | 5550 | 1529 | NMRV-P110 | TP90S4 | - | - |
| 35.0 | 1.6 | 1995 | - | - | 50.00 | 3145 | 1210 | NMRV-P090 | TP90S4 | - | - |
| 35.0 | 1.6 | 1995 | - | - | 50.00 | 3145 | 1210 | NMRV-P090 | TP90S4 | - | - |
| 35.0 | 1.6 | 1995 | - | - | 50.00 | 3145 | 1210 | NMRV-P090 | TP90S4 | - | - |
| 29.0 | 2.1 | 2426 | - | - | 60.00 | 5180 | 1625 | NMRV-P110 | TP90S4 | - | - |
| 29.0 | 2.1 | 2426 | - | - | 60.00 | 5180 | 1625 | NMRV-P110 | TP90S4 | - | - |
| 29.0 | 2.1 | 2426 | - | - | 60.00 | 5180 | 1625 | NMRV-P110 | TP90S4 | - | - |
| 29.0 | 1.3 | 2304 | - | - | 60.00 | 2960 | 1286 | NMRV-P090 | TP90S4 | - | - |
| 29.0 | 1.3 | 2304 | - | - | 60.00 | 2960 | 1286 | NMRV-P090 | TP90S4 | - | - |
| 29.0 | 1.3 | 2304 | - | - | 60.00 | 2960 | 1286 | NMRV-P090 | TP90S4 | - | - |
| 22.0 | 2.4 | 2982 | - | - | 80.00 | 7063 | 2339 | NMRV130 | TP90S4 | - | - |
| 22.0 | 2.4 | 2982 | - | - | 80.00 | 7063 | 2339 | NMRV130 | TP90S4 | - | - |
| 22.0 | 2.4 | 2982 | - | - | 80.00 | 7063 | 2339 | NMRV130 | TP90S4 | - | - |
| 22.0 | 1.4 | 2994 | - | - | 80.00 | 4330 | 1789 | NMRV-P110 | TP90S4 | - | - |
| 22.0 | 1.4 | 2994 | - | - | 80.00 | 4330 | 1789 | NMRV-P110 | TP90S4 | - | - |
| 22.0 | 1.4 | 2994 | - | - | 80.00 | 4330 | 1789 | NMRV-P110 | TP90S4 | - | - |
| 18.0 | 1.8 | 3511 | - | - | 100.00 | 6222 | 2520 | NMRV130 | TP90S4 | - | - |
| 18.0 | 1.8 | 3511 | - | - | 100.00 | 6222 | 2520 | NMRV130 | TP90S4 | - | - |
| 18.0 | 1.8 | 3511 | - | - | 100.00 | 6222 | 2520 | NMRV130 | TP90S4 | - | - |
| 18.0 | 1.2 | 3527 | - | - | 100.00 | 4061 | 1927 | NMRV-P110 | TP90S4 | - | - |
| 18.0 | 1.2 | 3527 | - | - | 100.00 | 4061 | 1927 | NMRV-P110 | TP90S4 | - | - |
| 18.0 | 1.2 | 3527 | - | - | 100.00 | 4061 | 1927 | NMRV-P110 | TP90S4 | - | - |

5.1 WORM GEARMOTOR

2 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 233.0 | 3.2 | 483 | - | - | 7.50 | 1555 | 581 | NMRV-P075 | TP90L4 | - | - |
| 233.0 | 3.2 | 483 | - | - | 7.50 | 1555 | 581 | NMRV-P075 | TP90L4 | - | - |
| 233.0 | 3.2 | 483 | - | - | 7.50 | 1555 | 581 | NMRV-P075 | TP90L4 | - | - |
| 233.0 | 2.2 | 483 | - | - | 7.50 | 1076 | 492 | NMRV-P063 | TP90L4 | - | - |
| 233.0 | 2.2 | 483 | - | - | 7.50 | 1076 | 492 | NMRV-P063 | TP90L4 | - | - |
| 233.0 | 2.2 | 483 | - | - | 7.50 | 1076 | 492 | NMRV-P063 | TP90L4 | - | - |
| 175.0 | 2.6 | 637 | - | - | 10.00 | 1656 | 640 | NMRV-P075 | TP90L4 | - | - |
| 175.0 | 2.6 | 637 | - | - | 10.00 | 1656 | 640 | NMRV-P075 | TP90L4 | - | - |
| 175.0 | 2.6 | 637 | - | - | 10.00 | 1656 | 640 | NMRV-P075 | TP90L4 | - | - |
| 175.0 | 1.8 | 630 | - | - | 10.00 | 1108 | 542 | NMRV-P063 | TP90L4 | - | - |
| 175.0 | 1.8 | 630 | - | - | 10.00 | 1108 | 542 | NMRV-P063 | TP90L4 | - | - |
| 175.0 | 1.8 | 630 | - | - | 10.00 | 1108 | 542 | NMRV-P063 | TP90L4 | - | - |
| 117.0 | 3.5 | 945 | - | - | 15.00 | 3330 | 810 | NMRV-P090 | TP90L4 | - | - |
| 117.0 | 3.5 | 945 | - | - | 15.00 | 3330 | 810 | NMRV-P090 | TP90L4 | - | - |
| 117.0 | 3.5 | 945 | - | - | 15.00 | 3330 | 810 | NMRV-P090 | TP90L4 | - | - |
| 117.0 | 2.0 | 934 | - | - | 15.00 | 1900 | 732 | NMRV-P075 | TP90L4 | - | - |
| 117.0 | 2.0 | 934 | - | - | 15.00 | 1900 | 732 | NMRV-P075 | TP90L4 | - | - |
| 117.0 | 2.0 | 934 | - | - | 15.00 | 1900 | 732 | NMRV-P075 | TP90L4 | - | - |
| 117.0 | 1.4 | 915 | - | - | 15.00 | 1236 | 620 | NMRV-P063 | TP90L4 | - | - |
| 117.0 | 1.4 | 915 | - | - | 15.00 | 1236 | 620 | NMRV-P063 | TP90L4 | - | - |
| 117.0 | 1.4 | 915 | - | - | 15.00 | 1236 | 620 | NMRV-P063 | TP90L4 | - | - |
| 88.0 | 2.7 | 1234 | - | - | 20.00 | 3288 | 892 | NMRV-P090 | TP90L4 | - | - |
| 88.0 | 2.7 | 1234 | - | - | 20.00 | 3288 | 892 | NMRV-P090 | TP90L4 | - | - |
| 88.0 | 2.7 | 1234 | - | - | 20.00 | 3288 | 892 | NMRV-P090 | TP90L4 | - | - |
| 88.0 | 1.6 | 1205 | - | - | 20.00 | 1953 | 806 | NMRV-P075 | TP90L4 | - | - |
| 88.0 | 1.6 | 1205 | - | - | 20.00 | 1953 | 806 | NMRV-P075 | TP90L4 | - | - |
| 88.0 | 1.6 | 1205 | - | - | 20.00 | 1953 | 806 | NMRV-P075 | TP90L4 | - | - |
| 88.0 | 1.0 | 1191 | - | - | 20.00 | 1225 | 683 | NMRV-P063 | TP90L4 | - | - |
| 88.0 | 1.0 | 1191 | - | - | 20.00 | 1225 | 683 | NMRV-P063 | TP90L4 | - | - |
| 88.0 | 1.0 | 1191 | - | - | 20.00 | 1225 | 683 | NMRV-P063 | TP90L4 | - | - |
| 70.0 | 3.7 | 1542 | - | - | 25.00 | 5709 | 1214 | NMRV-P110 | TP90L4 | - | - |
| 70.0 | 3.7 | 1542 | - | - | 25.00 | 5709 | 1214 | NMRV-P110 | TP90L4 | - | - |
| 70.0 | 3.7 | 1542 | - | - | 25.00 | 5709 | 1214 | NMRV-P110 | TP90L4 | - | - |
| 70.0 | 2.1 | 1506 | - | - | 25.00 | 3145 | 961 | NMRV-P090 | TP90L4 | - | - |
| 70.0 | 2.1 | 1506 | - | - | 25.00 | 3145 | 961 | NMRV-P090 | TP90L4 | - | - |
| 70.0 | 2.1 | 1506 | - | - | 25.00 | 3145 | 961 | NMRV-P090 | TP90L4 | - | - |
| 70.0 | 1.2 | 1470 | - | - | 25.00 | 1784 | 868 | NMRV-P075 | TP90L4 | - | - |
| 70.0 | 1.2 | 1470 | - | - | 25.00 | 1784 | 868 | NMRV-P075 | TP90L4 | - | - |

5.1 WORM GEARMOTOR

2 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 70.0 | 1.2 | 1470 | - | - | 25.00 | 1784 | 868 | NMRV-P075 | TP90L4 | - | - |
| 58.0 | 3.5 | 1747 | - | - | 30.00 | 6096 | 1290 | NMRV-P110 | TP90L4 | - | - |
| 58.0 | 3.5 | 1747 | - | - | 30.00 | 6096 | 1290 | NMRV-P110 | TP90L4 | - | - |
| 58.0 | 3.5 | 1747 | - | - | 30.00 | 6096 | 1290 | NMRV-P110 | TP90L4 | - | - |
| 58.0 | 2.1 | 1726 | - | - | 30.00 | 3632 | 1021 | NMRV-P090 | TP90L4 | - | - |
| 58.0 | 2.1 | 1726 | - | - | 30.00 | 3632 | 1021 | NMRV-P090 | TP90L4 | - | - |
| 58.0 | 2.1 | 1726 | - | - | 30.00 | 3632 | 1021 | NMRV-P090 | TP90L4 | - | - |
| 58.0 | 1.2 | 1682 | - | - | 30.00 | 2028 | 923 | NMRV-P075 | TP90L4 | - | - |
| 58.0 | 1.2 | 1682 | - | - | 30.00 | 2028 | 923 | NMRV-P075 | TP90L4 | - | - |
| 58.0 | 1.2 | 1682 | - | - | 30.00 | 2028 | 923 | NMRV-P075 | TP90L4 | - | - |
| 44.0 | 2.6 | 2301 | - | - | 40.00 | 5903 | 1420 | NMRV-P110 | TP90L4 | - | - |
| 44.0 | 2.6 | 2301 | - | - | 40.00 | 5903 | 1420 | NMRV-P110 | TP90L4 | - | - |
| 44.0 | 2.6 | 2301 | - | - | 40.00 | 5903 | 1420 | NMRV-P110 | TP90L4 | - | - |
| 44.0 | 1.5 | 2214 | - | - | 40.00 | 3330 | 1123 | NMRV-P090 | TP90L4 | - | - |
| 44.0 | 1.5 | 2214 | - | - | 40.00 | 3330 | 1123 | NMRV-P090 | TP90L4 | - | - |
| 44.0 | 1.5 | 2214 | - | - | 40.00 | 3330 | 1123 | NMRV-P090 | TP90L4 | - | - |
| 35.0 | 2.0 | 2768 | - | - | 50.00 | 5550 | 1529 | NMRV-P110 | TP90L4 | - | - |
| 35.0 | 2.0 | 2768 | - | - | 50.00 | 5550 | 1529 | NMRV-P110 | TP90L4 | - | - |
| 35.0 | 2.0 | 2768 | - | - | 50.00 | 5550 | 1529 | NMRV-P110 | TP90L4 | - | - |
| 35.0 | 1.2 | 2660 | - | - | 50.00 | 3145 | 1210 | NMRV-P090 | TP90L4 | - | - |
| 35.0 | 1.2 | 2660 | - | - | 50.00 | 3145 | 1210 | NMRV-P090 | TP90L4 | - | - |
| 35.0 | 1.2 | 2660 | - | - | 50.00 | 3145 | 1210 | NMRV-P090 | TP90L4 | - | - |
| 29.0 | 1.6 | 3235 | - | - | 60.00 | 5180 | 1625 | NMRV-P110 | TP90L4 | - | - |
| 29.0 | 1.6 | 3235 | - | - | 60.00 | 5180 | 1625 | NMRV-P110 | TP90L4 | - | - |
| 29.0 | 1.6 | 3235 | - | - | 60.00 | 5180 | 1625 | NMRV-P110 | TP90L4 | - | - |
| 22.0 | 1.8 | 3976 | - | - | 80.00 | 7063 | 2339 | NMRV130 | TP90L4 | - | - |
| 22.0 | 1.8 | 3976 | - | - | 80.00 | 7063 | 2339 | NMRV130 | TP90L4 | - | - |
| 22.0 | 1.8 | 3976 | - | - | 80.00 | 7063 | 2339 | NMRV130 | TP90L4 | - | - |
| 22.0 | 1.1 | 3992 | - | - | 80.00 | 4330 | 1789 | NMRV-P110 | TP90L4 | - | - |
| 22.0 | 1.1 | 3992 | - | - | 80.00 | 4330 | 1789 | NMRV-P110 | TP90L4 | - | - |
| 22.0 | 1.1 | 3992 | - | - | 80.00 | 4330 | 1789 | NMRV-P110 | TP90L4 | - | - |
| 18.0 | 1.3 | 4682 | - | - | 100.00 | 6222 | 2520 | NMRV130 | TP90L4 | - | - |
| 18.0 | 1.3 | 4682 | - | - | 100.00 | 6222 | 2520 | NMRV130 | TP90L4 | - | - |
| 18.0 | 1.3 | 4682 | - | - | 100.00 | 6222 | 2520 | NMRV130 | TP90L4 | - | - |

3 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------|----------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 233.0 | 3.7 | 733 | - | - | 7.50 | 2682 | 643 | NMRV-P090 | TP112MR4 | - | - |
| 233.0 | 2.1 | 725 | - | - | 7.50 | 1555 | 581 | NMRV-P075 | TP112MR4 | - | - |
| 175.0 | 3.0 | 964 | - | - | 10.00 | 2867 | 708 | NMRV-P090 | TP112MR4 | - | - |
| 175.0 | 1.7 | 955 | - | - | 10.00 | 1656 | 640 | NMRV-P075 | TP112MR4 | - | - |
| 117.0 | 3.9 | 1420 | - | - | 15.00 | 5516 | 1024 | NMRV-P110 | TP112MR4 | - | - |
| 117.0 | 2.4 | 1417 | - | - | 15.00 | 3330 | 810 | NMRV-P090 | TP112MR4 | - | - |
| 117.0 | 1.4 | 1401 | - | - | 15.00 | 1900 | 732 | NMRV-P075 | TP112MR4 | - | - |
| 88.0 | 2.9 | 1872 | - | - | 20.00 | 5415 | 1127 | NMRV-P110 | TP112MR4 | - | - |
| 88.0 | 1.8 | 1851 | - | - | 20.00 | 3288 | 892 | NMRV-P090 | TP112MR4 | - | - |
| 88.0 | 1.1 | 1807 | - | - | 20.00 | 1953 | 806 | NMRV-P075 | TP112MR4 | - | - |
| 70.0 | 3.4 | 2296 | - | - | 25.00 | 7819 | 1588 | NMRV130 | TP112MR4 | - | - |
| 70.0 | 2.5 | 2313 | - | - | 25.00 | 5709 | 1214 | NMRV-P110 | TP112MR4 | - | - |
| 70.0 | 1.4 | 2259 | - | - | 25.00 | 3145 | 961 | NMRV-P090 | TP112MR4 | - | - |
| 58.0 | 3.3 | 2625 | - | - | 30.00 | 8745 | 1687 | NMRV130 | TP112MR4 | - | - |
| 58.0 | 2.3 | 2621 | - | - | 30.00 | 6096 | 1290 | NMRV-P110 | TP112MR4 | - | - |
| 58.0 | 1.4 | 2588 | - | - | 30.00 | 3632 | 1021 | NMRV-P090 | TP112MR4 | - | - |
| 44.0 | 2.6 | 3414 | - | - | 40.00 | 8829 | 1857 | NMRV130 | TP112MR4 | - | - |
| 44.0 | 1.7 | 3451 | - | - | 40.00 | 5903 | 1420 | NMRV-P110 | TP112MR4 | - | - |
| 44.0 | 1.0 | 3322 | - | - | 40.00 | 3330 | 1123 | NMRV-P090 | TP112MR4 | - | - |
| 35.0 | 2.8 | 4160 | - | - | 50.00 | 11772 | 2734 | NMRV150 | TP112MR4 | - | - |
| 35.0 | 2.0 | 4106 | - | - | 50.00 | 8240 | 2000 | NMRV130 | TP112MR4 | - | - |
| 35.0 | 1.3 | 4152 | - | - | 50.00 | 5550 | 1529 | NMRV-P110 | TP112MR4 | - | - |
| 29.0 | 2.2 | 4797 | - | - | 60.00 | 10594 | 2906 | NMRV150 | TP112MR4 | - | - |
| 29.0 | 1.6 | 4732 | - | - | 60.00 | 7567 | 2126 | NMRV130 | TP112MR4 | - | - |
| 29.0 | 1.1 | 4853 | - | - | 60.00 | 5180 | 1625 | NMRV-P110 | TP112MR4 | - | - |
| 22.0 | 1.6 | 5964 | - | - | 80.00 | 9670 | 3198 | NMRV150 | TP112MR4 | - | - |
| 22.0 | 1.2 | 5964 | - | - | 80.00 | 7063 | 2339 | NMRV130 | TP112MR4 | - | - |
| 18.0 | 1.2 | 7023 | - | - | 100.00 | 8409 | 3445 | NMRV150 | TP112MR4 | - | - |

5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------|---------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 233.0 | 3.8 | 1221 | - | - | 7.50 | 4641 | 813 | NMRV-P110 | TP112M4 | - | - |
| 233.0 | 3.8 | 1221 | - | - | 7.50 | 4641 | 813 | NMRV-P110 | TP112M4 | - | - |
| 233.0 | 3.8 | 1221 | - | - | 7.50 | 4641 | 813 | NMRV-P110 | TP112M4 | - | - |
| 233.0 | 2.2 | 1221 | - | - | 7.50 | 2682 | 643 | NMRV-P090 | TP112M4 | - | - |
| 233.0 | 2.2 | 1221 | - | - | 7.50 | 2682 | 643 | NMRV-P090 | TP112M4 | - | - |
| 233.0 | 2.2 | 1221 | - | - | 7.50 | 2682 | 643 | NMRV-P090 | TP112M4 | - | - |

5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------|---------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 233.0 | 1.3 | 1208 | - | - | 7.50 | 1555 | 581 | NMRV-P075 | TP112M4 | - | - |
| 233.0 | 1.3 | 1208 | - | - | 7.50 | 1555 | 581 | NMRV-P075 | TP112M4 | - | - |
| 233.0 | 1.3 | 1208 | - | - | 7.50 | 1555 | 581 | NMRV-P075 | TP112M4 | - | - |
| 175.0 | 3.1 | 1610 | - | - | 10.00 | 5029 | 894 | NMRV-P110 | TP112M4 | - | - |
| 175.0 | 3.1 | 1610 | - | - | 10.00 | 5029 | 894 | NMRV-P110 | TP112M4 | - | - |
| 175.0 | 3.1 | 1610 | - | - | 10.00 | 5029 | 894 | NMRV-P110 | TP112M4 | - | - |
| 175.0 | 1.8 | 1606 | - | - | 10.00 | 2867 | 708 | NMRV-P090 | TP112M4 | - | - |
| 175.0 | 1.8 | 1606 | - | - | 10.00 | 2867 | 708 | NMRV-P090 | TP112M4 | - | - |
| 175.0 | 1.8 | 1606 | - | - | 10.00 | 2867 | 708 | NMRV-P090 | TP112M4 | - | - |
| 175.0 | 1.0 | 1592 | - | - | 10.00 | 1656 | 640 | NMRV-P075 | TP112M4 | - | - |
| 175.0 | 1.0 | 1592 | - | - | 10.00 | 1656 | 640 | NMRV-P075 | TP112M4 | - | - |
| 175.0 | 1.0 | 1592 | - | - | 10.00 | 1656 | 640 | NMRV-P075 | TP112M4 | - | - |
| 117.0 | 2.3 | 2367 | - | - | 15.00 | 5516 | 1024 | NMRV-P110 | TP112M4 | - | - |
| 117.0 | 2.3 | 2367 | - | - | 15.00 | 5516 | 1024 | NMRV-P110 | TP112M4 | - | - |
| 117.0 | 2.3 | 2367 | - | - | 15.00 | 5516 | 1024 | NMRV-P110 | TP112M4 | - | - |
| 117.0 | 1.4 | 2362 | - | - | 15.00 | 3330 | 810 | NMRV-P090 | TP112M4 | - | - |
| 117.0 | 1.4 | 2362 | - | - | 15.00 | 3330 | 810 | NMRV-P090 | TP112M4 | - | - |
| 117.0 | 1.4 | 2362 | - | - | 15.00 | 3330 | 810 | NMRV-P090 | TP112M4 | - | - |
| 88.0 | 1.7 | 3120 | - | - | 20.00 | 5415 | 1127 | NMRV-P110 | TP112M4 | - | - |
| 88.0 | 1.7 | 3120 | - | - | 20.00 | 5415 | 1127 | NMRV-P110 | TP112M4 | - | - |
| 88.0 | 1.7 | 3120 | - | - | 20.00 | 5415 | 1127 | NMRV-P110 | TP112M4 | - | - |
| 88.0 | 1.1 | 3084 | - | - | 20.00 | 3288 | 892 | NMRV-P090 | TP112M4 | - | - |
| 88.0 | 1.1 | 3084 | - | - | 20.00 | 3288 | 892 | NMRV-P090 | TP112M4 | - | - |
| 88.0 | 1.1 | 3084 | - | - | 20.00 | 3288 | 892 | NMRV-P090 | TP112M4 | - | - |
| 70.0 | 2.0 | 3827 | - | - | 25.00 | 7819 | 1588 | NMRV130 | TP112M4 | - | - |
| 70.0 | 2.0 | 3827 | - | - | 25.00 | 7819 | 1588 | NMRV130 | TP112M4 | - | - |
| 70.0 | 2.0 | 3827 | - | - | 25.00 | 7819 | 1588 | NMRV130 | TP112M4 | - | - |
| 70.0 | 1.5 | 3855 | - | - | 25.00 | 5709 | 1214 | NMRV-P110 | TP112M4 | - | - |
| 70.0 | 1.5 | 3855 | - | - | 25.00 | 5709 | 1214 | NMRV-P110 | TP112M4 | - | - |
| 70.0 | 1.5 | 3855 | - | - | 25.00 | 5709 | 1214 | NMRV-P110 | TP112M4 | - | - |
| 58.0 | 2.0 | 4376 | - | - | 30.00 | 8745 | 1687 | NMRV130 | TP112M4 | - | - |
| 58.0 | 2.0 | 4376 | - | - | 30.00 | 8745 | 1687 | NMRV130 | TP112M4 | - | - |
| 58.0 | 2.0 | 4376 | - | - | 30.00 | 8745 | 1687 | NMRV130 | TP112M4 | - | - |
| 58.0 | 1.4 | 4368 | - | - | 30.00 | 6096 | 1290 | NMRV-P110 | TP112M4 | - | - |
| 58.0 | 1.4 | 4368 | - | - | 30.00 | 6096 | 1290 | NMRV-P110 | TP112M4 | - | - |
| 58.0 | 1.4 | 4368 | - | - | 30.00 | 6096 | 1290 | NMRV-P110 | TP112M4 | - | - |
| 44.0 | 1.6 | 5690 | - | - | 40.00 | 8829 | 1857 | NMRV130 | TP112M4 | - | - |
| 44.0 | 1.6 | 5690 | - | - | 40.00 | 8829 | 1857 | NMRV130 | TP112M4 | - | - |

5.1 WORM GEARMOTOR

5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|------------------|---------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 44.0 | 1.6 | 5690 | - | - | 40.00 | 8829 | 1857 | NMRV130 | TP112M4 | - | - |
| 44.0 | 1.0 | 5752 | - | - | 40.00 | 5903 | 1420 | NMRV-P110 | TP112M4 | - | - |
| 44.0 | 1.0 | 5752 | - | - | 40.00 | 5903 | 1420 | NMRV-P110 | TP112M4 | - | - |
| 44.0 | 1.0 | 5752 | - | - | 40.00 | 5903 | 1420 | NMRV-P110 | TP112M4 | - | - |
| 35.0 | 1.7 | 6933 | - | - | 50.00 | 11772 | 2734 | NMRV150 | TP112M4 | - | - |
| 35.0 | 1.7 | 6933 | - | - | 50.00 | 11772 | 2734 | NMRV150 | TP112M4 | - | - |
| 35.0 | 1.7 | 6933 | - | - | 50.00 | 11772 | 2734 | NMRV150 | TP112M4 | - | - |
| 35.0 | 1.2 | 6843 | - | - | 50.00 | 8240 | 2000 | NMRV130 | TP112M4 | - | - |
| 35.0 | 1.2 | 6843 | - | - | 50.00 | 8240 | 2000 | NMRV130 | TP112M4 | - | - |
| 35.0 | 1.2 | 6843 | - | - | 50.00 | 8240 | 2000 | NMRV130 | TP112M4 | - | - |
| 29.0 | 1.3 | 7995 | - | - | 60.00 | 10594 | 2906 | NMRV150 | TP112M4 | - | - |
| 29.0 | 1.3 | 7995 | - | - | 60.00 | 10594 | 2906 | NMRV150 | TP112M4 | - | - |
| 29.0 | 1.3 | 7995 | - | - | 60.00 | 10594 | 2906 | NMRV150 | TP112M4 | - | - |

7.5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|------------------|----------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 233.0 | 3.4 | 1843 | - | - | 7.50 | 6306 | 1063 | NMRV130 | TP132MS4 | - | - |
| 233.0 | 3.4 | 1843 | - | - | 7.50 | 6306 | 1063 | NMRV130 | TP132MS4 | - | - |
| 233.0 | 3.4 | 1843 | - | - | 7.50 | 6306 | 1063 | NMRV130 | TP132MS4 | - | - |
| 233.0 | 2.5 | 1832 | - | - | 7.50 | 4641 | 813 | NMRV-P110 | TP132MS4 | - | - |
| 233.0 | 2.5 | 1832 | - | - | 7.50 | 4641 | 813 | NMRV-P110 | TP132MS4 | - | - |
| 233.0 | 2.5 | 1832 | - | - | 7.50 | 4641 | 813 | NMRV-P110 | TP132MS4 | - | - |
| 175.0 | 2.9 | 2404 | - | - | 10.00 | 6895 | 1170 | NMRV130 | TP132MS4 | - | - |
| 175.0 | 2.9 | 2404 | - | - | 10.00 | 6895 | 1170 | NMRV130 | TP132MS4 | - | - |
| 175.0 | 2.9 | 2404 | - | - | 10.00 | 6895 | 1170 | NMRV130 | TP132MS4 | - | - |
| 175.0 | 2.1 | 2416 | - | - | 10.00 | 5029 | 894 | NMRV-P110 | TP132MS4 | - | - |
| 175.0 | 2.1 | 2416 | - | - | 10.00 | 5029 | 894 | NMRV-P110 | TP132MS4 | - | - |
| 175.0 | 2.1 | 2416 | - | - | 10.00 | 5029 | 894 | NMRV-P110 | TP132MS4 | - | - |
| 117.0 | 2.2 | 3525 | - | - | 15.00 | 7735 | 1339 | NMRV130 | TP132MS4 | - | - |
| 117.0 | 2.2 | 3525 | - | - | 15.00 | 7735 | 1339 | NMRV130 | TP132MS4 | - | - |
| 117.0 | 2.2 | 3525 | - | - | 15.00 | 7735 | 1339 | NMRV130 | TP132MS4 | - | - |
| 117.0 | 1.6 | 3551 | - | - | 15.00 | 5516 | 1024 | NMRV-P110 | TP132MS4 | - | - |
| 117.0 | 1.6 | 3551 | - | - | 15.00 | 5516 | 1024 | NMRV-P110 | TP132MS4 | - | - |
| 117.0 | 1.6 | 3551 | - | - | 15.00 | 5516 | 1024 | NMRV-P110 | TP132MS4 | - | - |
| 88.0 | 2.3 | 4700 | - | - | 20.00 | 10930 | 2015 | NMRV150 | TP132MS4 | - | - |
| 88.0 | 2.3 | 4700 | - | - | 20.00 | 10930 | 2015 | NMRV150 | TP132MS4 | - | - |
| 88.0 | 2.3 | 4700 | - | - | 20.00 | 10930 | 2015 | NMRV150 | TP132MS4 | - | - |

7.5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------|----------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 88.0 | 1.6 | 4700 | - | - | 20.00 | 7651 | 1474 | NMRV130 | TP132MS4 | - | - |
| 88.0 | 1.6 | 4700 | - | - | 20.00 | 7651 | 1474 | NMRV130 | TP132MS4 | - | - |
| 88.0 | 1.6 | 4700 | - | - | 20.00 | 7651 | 1474 | NMRV130 | TP132MS4 | - | - |
| 88.0 | 1.2 | 4681 | - | - | 20.00 | 5415 | 1127 | NMRV-P110 | TP132MS4 | - | - |
| 88.0 | 1.2 | 4681 | - | - | 20.00 | 5415 | 1127 | NMRV-P110 | TP132MS4 | - | - |
| 88.0 | 1.2 | 4681 | - | - | 20.00 | 5415 | 1127 | NMRV-P110 | TP132MS4 | - | - |
| 70.0 | 1.8 | 5740 | - | - | 25.00 | 10090 | 2170 | NMRV150 | TP132MS4 | - | - |
| 70.0 | 1.8 | 5740 | - | - | 25.00 | 10090 | 2170 | NMRV150 | TP132MS4 | - | - |
| 70.0 | 1.8 | 5740 | - | - | 25.00 | 10090 | 2170 | NMRV150 | TP132MS4 | - | - |
| 70.0 | 1.4 | 5740 | - | - | 25.00 | 7819 | 1588 | NMRV130 | TP132MS4 | - | - |
| 70.0 | 1.4 | 5740 | - | - | 25.00 | 7819 | 1588 | NMRV130 | TP132MS4 | - | - |
| 70.0 | 1.4 | 5740 | - | - | 25.00 | 7819 | 1588 | NMRV130 | TP132MS4 | - | - |
| 58.0 | 1.5 | 6807 | - | - | 30.00 | 10090 | 2306 | NMRV150 | TP132MS4 | - | - |
| 58.0 | 1.5 | 6807 | - | - | 30.00 | 10090 | 2306 | NMRV150 | TP132MS4 | - | - |
| 58.0 | 1.5 | 6807 | - | - | 30.00 | 10090 | 2306 | NMRV150 | TP132MS4 | - | - |
| 58.0 | 1.3 | 6564 | - | - | 30.00 | 8745 | 1687 | NMRV130 | TP132MS4 | - | - |
| 58.0 | 1.3 | 6564 | - | - | 30.00 | 8745 | 1687 | NMRV130 | TP132MS4 | - | - |
| 58.0 | 1.3 | 6564 | - | - | 30.00 | 8745 | 1687 | NMRV130 | TP132MS4 | - | - |
| 44.0 | 1.5 | 8535 | - | - | 40.00 | 13033 | 2538 | NMRV150 | TP132MS4 | - | - |
| 44.0 | 1.5 | 8535 | - | - | 40.00 | 13033 | 2538 | NMRV150 | TP132MS4 | - | - |
| 44.0 | 1.5 | 8535 | - | - | 40.00 | 13033 | 2538 | NMRV150 | TP132MS4 | - | - |
| 44.0 | 1.0 | 8535 | - | - | 40.00 | 8829 | 1857 | NMRV130 | TP132MS4 | - | - |
| 44.0 | 1.0 | 8535 | - | - | 40.00 | 8829 | 1857 | NMRV130 | TP132MS4 | - | - |
| 44.0 | 1.0 | 8535 | - | - | 40.00 | 8829 | 1857 | NMRV130 | TP132MS4 | - | - |
| 35.0 | 1.1 | 10399 | - | - | 50.00 | 11772 | 2734 | NMRV150 | TP132MS4 | - | - |
| 35.0 | 1.1 | 10399 | - | - | 50.00 | 11772 | 2734 | NMRV150 | TP132MS4 | - | - |
| 35.0 | 1.1 | 10399 | - | - | 50.00 | 11772 | 2734 | NMRV150 | TP132MS4 | - | - |

10 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------|---------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 233.0 | 2.6 | 2458 | - | - | 7.50 | 6306 | 1063 | NMRV130 | TP132M4 | - | - |
| 233.0 | 2.6 | 2458 | - | - | 7.50 | 6306 | 1063 | NMRV130 | TP132M4 | - | - |
| 233.0 | 2.6 | 2458 | - | - | 7.50 | 6306 | 1063 | NMRV130 | TP132M4 | - | - |
| 233.0 | 1.9 | 2443 | - | - | 7.50 | 4641 | 813 | NMRV-P110 | TP132M4 | - | - |
| 233.0 | 1.9 | 2443 | - | - | 7.50 | 4641 | 813 | NMRV-P110 | TP132M4 | - | - |
| 233.0 | 1.9 | 2443 | - | - | 7.50 | 4641 | 813 | NMRV-P110 | TP132M4 | - | - |
| 175.0 | 2.2 | 3205 | - | - | 10.00 | 6895 | 1170 | NMRV130 | TP132M4 | - | - |

5.1 WORM GEARMOTOR

10 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------|---------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 175.0 | 2.2 | 3205 | - | - | 10.00 | 6895 | 1170 | NMRV130 | TP132M4 | - | - |
| 175.0 | 2.2 | 3205 | - | - | 10.00 | 6895 | 1170 | NMRV130 | TP132M4 | - | - |
| 175.0 | 1.6 | 3221 | - | - | 10.00 | 5029 | 894 | NMRV-P110 | TP132M4 | - | - |
| 175.0 | 1.6 | 3221 | - | - | 10.00 | 5029 | 894 | NMRV-P110 | TP132M4 | - | - |
| 175.0 | 1.6 | 3221 | - | - | 10.00 | 5029 | 894 | NMRV-P110 | TP132M4 | - | - |
| 117.0 | 1.6 | 4700 | - | - | 15.00 | 7735 | 1339 | NMRV130 | TP132M4 | - | - |
| 117.0 | 1.6 | 4700 | - | - | 15.00 | 7735 | 1339 | NMRV130 | TP132M4 | - | - |
| 117.0 | 1.6 | 4700 | - | - | 15.00 | 7735 | 1339 | NMRV130 | TP132M4 | - | - |
| 117.0 | 1.2 | 4735 | - | - | 15.00 | 5516 | 1024 | NMRV-P110 | TP132M4 | - | - |
| 117.0 | 1.2 | 4735 | - | - | 15.00 | 5516 | 1024 | NMRV-P110 | TP132M4 | - | - |
| 117.0 | 1.2 | 4735 | - | - | 15.00 | 5516 | 1024 | NMRV-P110 | TP132M4 | - | - |
| 88.0 | 1.7 | 6266 | - | - | 20.00 | 10930 | 2015 | NMRV150 | TP132M4 | - | - |
| 88.0 | 1.7 | 6266 | - | - | 20.00 | 10930 | 2015 | NMRV150 | TP132M4 | - | - |
| 88.0 | 1.7 | 6266 | - | - | 20.00 | 10930 | 2015 | NMRV150 | TP132M4 | - | - |
| 88.0 | 1.2 | 6266 | - | - | 20.00 | 7651 | 1474 | NMRV130 | TP132M4 | - | - |
| 88.0 | 1.2 | 6266 | - | - | 20.00 | 7651 | 1474 | NMRV130 | TP132M4 | - | - |
| 88.0 | 1.2 | 6266 | - | - | 20.00 | 7651 | 1474 | NMRV130 | TP132M4 | - | - |
| 70.0 | 1.3 | 7653 | - | - | 25.00 | 10090 | 2170 | NMRV150 | TP132M4 | - | - |
| 70.0 | 1.3 | 7653 | - | - | 25.00 | 10090 | 2170 | NMRV150 | TP132M4 | - | - |
| 70.0 | 1.3 | 7653 | - | - | 25.00 | 10090 | 2170 | NMRV150 | TP132M4 | - | - |
| 70.0 | 1.0 | 7653 | - | - | 25.00 | 7819 | 1588 | NMRV130 | TP132M4 | - | - |
| 70.0 | 1.0 | 7653 | - | - | 25.00 | 7819 | 1588 | NMRV130 | TP132M4 | - | - |
| 70.0 | 1.0 | 7653 | - | - | 25.00 | 7819 | 1588 | NMRV130 | TP132M4 | - | - |
| 58.0 | 1.1 | 9076 | - | - | 30.00 | 10090 | 2306 | NMRV150 | TP132M4 | - | - |
| 58.0 | 1.1 | 9076 | - | - | 30.00 | 10090 | 2306 | NMRV150 | TP132M4 | - | - |
| 58.0 | 1.1 | 9076 | - | - | 30.00 | 10090 | 2306 | NMRV150 | TP132M4 | - | - |
| 44.0 | 1.1 | 11381 | - | - | 40.00 | 13033 | 2538 | NMRV150 | TP132M4 | - | - |
| 44.0 | 1.1 | 11381 | - | - | 40.00 | 13033 | 2538 | NMRV150 | TP132M4 | - | - |
| 44.0 | 1.1 | 11381 | - | - | 40.00 | 13033 | 2538 | NMRV150 | TP132M4 | - | - |

15 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------|----------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 233.0 | 2.7 | 3687 | - | - | 7.50 | 10090 | 1453 | NMRV150 | TS160S4 | - | - |
| 233.0 | 1.7 | 3687 | - | - | 7.50 | 6306 | 1063 | NMRV130 | TS132MC4 | - | - |
| 233.0 | 1.3 | 3664 | - | - | 7.50 | 4641 | 813 | NMRV-P110 | TS132MC4 | - | - |
| 175.0 | 2.1 | 4862 | - | - | 10.00 | 10426 | 1599 | NMRV150 | TS160S4 | - | - |
| 175.0 | 1.4 | 4808 | - | - | 10.00 | 6895 | 1170 | NMRV130 | TS132MC4 | - | - |

5.1 WORM GEARMOTOR

15 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------|----------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 175.0 | 1.0 | 4831 | - | - | 10.00 | 5029 | 894 | NMRV-P110 | TS132MC4 | - | - |
| 117.0 | 1.5 | 7131 | - | - | 15.00 | 10510 | 1831 | NMRV150 | TS160S4 | - | - |
| 117.0 | 1.1 | 7050 | - | - | 15.00 | 7735 | 1339 | NMRV130 | TS132MC4 | - | - |
| 88.0 | 1.2 | 9400 | - | - | 20.00 | 10930 | 2015 | NMRV150 | TS132MC4 | - | - |
| 88.0 | 1.2 | 9400 | - | - | 20.00 | 10930 | 2015 | NMRV150 | TS160S4 | - | - |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 115 | 175.0 | 5.00 | 0.38 | 115 | - | NMRV025 | - |
| 115 | 117.0 | 7.50 | 0.25 | 132 | - | NMRV025 | - |
| 124 | 88.0 | 10.00 | 0.21 | 146 | - | NMRV025 | - |
| 124 | 58.0 | 15.00 | 0.15 | 167 | - | NMRV025 | - |
| 115 | 44.0 | 20.00 | 0.11 | 183 | - | NMRV025 | - |
| 133 | 29.0 | 30.00 | 0.09 | 210 | - | NMRV025 | - |
| 124 | 22.0 | 40.00 | 0.07 | 231 | - | NMRV025 | - |
| 115 | 18.0 | 50.00 | 0.06 | 249 | - | NMRV025 | - |
| 97 | 15.0 | 60.00 | 0.04 | 264 | - | NMRV025 | - |
| 186 | 175.0 | 5.00 | 0.61 | 157 | 47 | NMRV030 | NRV030 |
| 186 | 117.0 | 7.50 | 0.41 | 180 | 47 | NMRV030 | NRV030 |
| 186 | 88.0 | 10.00 | 0.32 | 198 | 47 | NMRV030 | NRV030 |
| 186 | 58.0 | 15.00 | 0.23 | 226 | 47 | NMRV030 | NRV030 |
| 177 | 44.0 | 20.00 | 0.17 | 249 | 47 | NMRV030 | NRV030 |
| 212 | 35.0 | 25.00 | 0.18 | 268 | 47 | NMRV030 | NRV030 |
| 195 | 29.0 | 30.00 | 0.15 | 285 | 47 | NMRV030 | NRV030 |
| 186 | 22.0 | 40.00 | 0.12 | 314 | 47 | NMRV030 | NRV030 |
| 168 | 18.0 | 50.00 | 0.09 | 338 | 47 | NMRV030 | NRV030 |
| 150 | 15.0 | 60.00 | 0.07 | 359 | 47 | NMRV030 | NRV030 |
| 133 | 11.0 | 80.00 | 0.05 | 395 | 47 | NMRV030 | NRV030 |
| 372 | 175.0 | 5.00 | 1.19 | 302 | 79 | NMRV040 | NRV040 |
| 407 | 117.0 | 7.50 | 0.89 | 346 | 79 | NMRV040 | NRV040 |
| 425 | 88.0 | 10.00 | 0.71 | 381 | 79 | NMRV040 | NRV040 |
| 442 | 58.0 | 15.00 | 0.52 | 436 | 79 | NMRV040 | NRV040 |
| 425 | 44.0 | 20.00 | 0.39 | 479 | 79 | NMRV040 | NRV040 |
| 398 | 35.0 | 25.00 | 0.3 | 517 | 79 | NMRV040 | NRV040 |
| 469 | 29.0 | 30.00 | 0.32 | 549 | 79 | NMRV040 | NRV040 |
| 442 | 22.0 | 40.00 | 0.24 | 604 | 79 | NMRV040 | NRV040 |
| 407 | 18.0 | 50.00 | 0.19 | 651 | 79 | NMRV040 | NRV040 |
| 363 | 15.0 | 60.00 | 0.15 | 692 | 79 | NMRV040 | NRV040 |
| 310 | 11.0 | 80.00 | 0.11 | 761 | 79 | NMRV040 | NRV040 |
| 283 | 9.0 | 100.00 | 0.09 | 785 | 79 | NMRV040 | NRV040 |
| 726 | 175.0 | 5.00 | 2.29 | 415 | 110 | NMRV050 | NRV050 |
| 805 | 117.0 | 7.50 | 1.73 | 475 | 110 | NMRV050 | NRV050 |
| 814 | 88.0 | 10.00 | 1.33 | 522 | 110 | NMRV050 | NRV050 |
| 814 | 58.0 | 15.00 | 0.94 | 598 | 110 | NMRV050 | NRV050 |
| 734 | 44.0 | 20.00 | 0.66 | 658 | 110 | NMRV050 | NRV050 |
| 672 | 35.0 | 25.00 | 0.5 | 709 | 110 | NMRV050 | NRV050 |
| 832 | 29.0 | 30.00 | 0.56 | 753 | 110 | NMRV050 | NRV050 |
| 779 | 22.0 | 40.00 | 0.42 | 829 | 110 | NMRV050 | NRV050 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 717 | 18.0 | 50.00 | 0.33 | 893 | 110 | NMRV050 | NRV050 |
| 672 | 15.0 | 60.00 | 0.28 | 949 | 110 | NMRV050 | NRV050 |
| 602 | 11.0 | 80.00 | 0.21 | 1045 | 110 | NMRV050 | NRV050 |
| 495 | 9.0 | 100.00 | 0.15 | 1088 | 110 | NMRV050 | NRV050 |
| 1336 | 117.0 | 7.50 | 2.81 | 620 | 157 | NMRV-P063 | NRV-P063 |
| 1354 | 88.0 | 10.00 | 2.21 | 683 | 157 | NMRV-P063 | NRV-P063 |
| 1470 | 58.0 | 15.00 | 1.66 | 782 | 157 | NMRV-P063 | NRV-P063 |
| 1398 | 44.0 | 20.00 | 1.24 | 860 | 157 | NMRV-P063 | NRV-P063 |
| 1292 | 35.0 | 25.00 | 0.94 | 927 | 157 | NMRV-P063 | NRV-P063 |
| 1572 | 29.0 | 30.00 | 1.02 | 985 | 157 | NMRV-P063 | NRV-P063 |
| 1478 | 22.0 | 40.00 | 0.78 | 1084 | 157 | NMRV-P063 | NRV-P063 |
| 1385 | 18.0 | 50.00 | 0.62 | 1168 | 157 | NMRV-P063 | NRV-P063 |
| 1319 | 15.0 | 60.00 | 0.52 | 1241 | 157 | NMRV-P063 | NRV-P063 |
| 1182 | 11.0 | 80.00 | 0.39 | 1366 | 157 | NMRV-P063 | NRV-P063 |
| 1097 | 9.0 | 100.00 | 0.32 | 1410 | 157 | NMRV-P063 | NRV-P063 |
| 1903 | 117.0 | 7.50 | 4 | 732 | 220 | NMRV-P075 | NRV-P075 |
| 2036 | 88.0 | 10.00 | 3.32 | 806 | 220 | NMRV-P075 | NRV-P075 |
| 2263 | 58.0 | 15.00 | 2.55 | 923 | 220 | NMRV-P075 | NRV-P075 |
| 2263 | 44.0 | 20.00 | 2.01 | 1015 | 220 | NMRV-P075 | NRV-P075 |
| 2131 | 35.0 | 25.00 | 1.56 | 1094 | 220 | NMRV-P075 | NRV-P075 |
| 2543 | 29.0 | 30.00 | 1.66 | 1162 | 220 | NMRV-P075 | NRV-P075 |
| 2453 | 22.0 | 40.00 | 1.29 | 1279 | 220 | NMRV-P075 | NRV-P075 |
| 2255 | 18.0 | 50.00 | 1.01 | 1378 | 220 | NMRV-P075 | NRV-P075 |
| 2184 | 15.0 | 60.00 | 0.86 | 1464 | 220 | NMRV-P075 | NRV-P075 |
| 1949 | 11.0 | 80.00 | 0.64 | 1612 | 220 | NMRV-P075 | NRV-P075 |
| 1735 | 9.0 | 100.00 | 0.5 | 1659 | 220 | NMRV-P075 | NRV-P075 |
| 3310 | 117.0 | 7.50 | 6.88 | 810 | 286 | NMRV-P090 | NRV-P090 |
| 3602 | 88.0 | 10.00 | 5.75 | 892 | 286 | NMRV-P090 | NRV-P090 |
| 4089 | 58.0 | 15.00 | 4.45 | 1021 | 286 | NMRV-P090 | NRV-P090 |
| 3797 | 44.0 | 20.00 | 3.21 | 1123 | 286 | NMRV-P090 | NRV-P090 |
| 3602 | 35.0 | 25.00 | 2.5 | 1210 | 286 | NMRV-P090 | NRV-P090 |
| 4293 | 29.0 | 30.00 | 2.61 | 1286 | 286 | NMRV-P090 | NRV-P090 |
| 3992 | 22.0 | 40.00 | 1.92 | 1416 | 286 | NMRV-P090 | NRV-P090 |
| 3797 | 18.0 | 50.00 | 1.53 | 1525 | 286 | NMRV-P090 | NRV-P090 |
| 3408 | 15.0 | 60.00 | 1.21 | 1620 | 286 | NMRV-P090 | NRV-P090 |
| 2788 | 11.0 | 80.00 | 0.81 | 1783 | 286 | NMRV-P090 | NRV-P090 |
| 2478 | 9.0 | 100.00 | 0.63 | 1839 | 286 | NMRV-P090 | NRV-P090 |
| 5753 | 117.0 | 7.50 | 11.96 | 1024 | 382 | NMRV-P110 | NRV-P110 |
| 6311 | 88.0 | 10.00 | 9.96 | 1127 | 382 | NMRV-P110 | NRV-P110 |
| 6718 | 58.0 | 15.00 | 7.23 | 1290 | 382 | NMRV-P110 | NRV-P110 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 6417 | 44.0 | 20.00 | 5.3 | 1420 | 382 | NMRV-P110 | NRV-P110 |
| 6718 | 35.0 | 25.00 | 4.55 | 1529 | 382 | NMRV-P110 | NRV-P110 |
| 7434 | 29.0 | 30.00 | 4.47 | 1625 | 382 | NMRV-P110 | NRV-P110 |
| 7027 | 22.0 | 40.00 | 3.25 | 1789 | 382 | NMRV-P110 | NRV-P110 |
| 6620 | 18.0 | 50.00 | 2.55 | 1927 | 382 | NMRV-P110 | NRV-P110 |
| 6036 | 15.0 | 60.00 | 2.02 | 2047 | 382 | NMRV-P110 | NRV-P110 |
| 5019 | 11.0 | 80.00 | 1.36 | 2254 | 382 | NMRV-P110 | NRV-P110 |
| 4558 | 9.0 | 100.00 | 1.07 | 2320 | 382 | NMRV-P110 | NRV-P110 |
| 7788 | 117.0 | 7.50 | 17.58 | 1339 | 472 | NMRV130 | NRV130 |
| 8497 | 88.0 | 10.00 | 14.56 | 1474 | 472 | NMRV130 | NRV130 |
| 9382 | 58.0 | 15.00 | 11.42 | 1687 | 472 | NMRV130 | NRV130 |
| 9205 | 44.0 | 20.00 | 8.52 | 1857 | 472 | NMRV130 | NRV130 |
| 9293 | 35.0 | 25.00 | 7.07 | 2000 | 472 | NMRV130 | NRV130 |
| 10355 | 29.0 | 30.00 | 7.26 | 2126 | 472 | NMRV130 | NRV130 |
| 9736 | 22.0 | 40.00 | 5.36 | 2339 | 472 | NMRV130 | NRV130 |
| 9293 | 18.0 | 50.00 | 4.3 | 2520 | 472 | NMRV130 | NRV130 |
| 8320 | 15.0 | 60.00 | 3.44 | 2678 | 472 | NMRV130 | NRV130 |
| 7611 | 11.0 | 80.00 | 2.59 | 2948 | 472 | NMRV130 | NRV130 |
| 6903 | 9.0 | 100.00 | 2.04 | 3035 | 472 | NMRV130 | NRV130 |
| 20357 | 117.0 | 7.50 | 45.95 | 1831 | 629 | NMRV150 | NRV150 |
| 20799 | 88.0 | 10.00 | 35.65 | 2015 | 629 | NMRV150 | NRV150 |
| 20003 | 58.0 | 15.00 | 23.73 | 2306 | 629 | NMRV150 | NRV150 |
| 20710 | 44.0 | 20.00 | 19.17 | 2538 | 629 | NMRV150 | NRV150 |
| 18144 | 35.0 | 25.00 | 13.8 | 2734 | 629 | NMRV150 | NRV150 |
| 18587 | 29.0 | 30.00 | 12.11 | 2906 | 629 | NMRV150 | NRV150 |
| 23631 | 22.0 | 40.00 | 12.81 | 3198 | 629 | NMRV150 | NRV150 |
| 20622 | 18.0 | 50.00 | 9.54 | 3445 | 629 | NMRV150 | NRV150 |
| 18410 | 15.0 | 60.00 | 7.47 | 3661 | 629 | NMRV150 | NRV150 |
| 16639 | 11.0 | 80.00 | 5.66 | 4030 | 629 | NMRV150 | NRV150 |
| 14603 | 9.0 | 100.00 | 4.31 | 4047 | 629 | NMRV150 | NRV150 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 106 | 228.0 | 5.00 | 0.45 | 106 | - | NMRV025 | - |
| 106 | 152.0 | 7.50 | 0.3 | 121 | - | NMRV025 | - |
| 115 | 114.0 | 10.00 | 0.25 | 133 | - | NMRV025 | - |
| 115 | 76.0 | 15.00 | 0.18 | 153 | - | NMRV025 | - |
| 111 | 57.0 | 20.00 | 0.14 | 168 | - | NMRV025 | - |
| 124 | 38.0 | 30.00 | 0.11 | 192 | - | NMRV025 | - |
| 119 | 29.0 | 40.00 | 0.09 | 211 | - | NMRV025 | - |
| 106 | 23.0 | 50.00 | 0.07 | 228 | - | NMRV025 | - |
| 93 | 19.0 | 60.00 | 0.05 | 242 | - | NMRV025 | - |
| 177 | 228.0 | 5.00 | 0.74 | 144 | 39 | NMRV030 | NRV030 |
| 177 | 152.0 | 7.50 | 0.51 | 164 | 39 | NMRV030 | NRV030 |
| 177 | 114.0 | 10.00 | 0.39 | 181 | 44 | NMRV030 | NRV030 |
| 177 | 76.0 | 15.00 | 0.28 | 207 | 44 | NMRV030 | NRV030 |
| 168 | 57.0 | 20.00 | 0.21 | 228 | 47 | NMRV030 | NRV030 |
| 204 | 46.0 | 25.00 | 0.22 | 246 | 47 | NMRV030 | NRV030 |
| 190 | 38.0 | 30.00 | 0.18 | 261 | 47 | NMRV030 | NRV030 |
| 177 | 29.0 | 40.00 | 0.14 | 287 | 47 | NMRV030 | NRV030 |
| 164 | 23.0 | 50.00 | 0.11 | 310 | 47 | NMRV030 | NRV030 |
| 146 | 19.0 | 60.00 | 0.09 | 329 | 47 | NMRV030 | NRV030 |
| 124 | 14.0 | 80.00 | 0.06 | 362 | 47 | NMRV030 | NRV030 |
| 345 | 228.0 | 5.00 | 1.42 | 277 | 65 | NMRV040 | NRV040 |
| 389 | 152.0 | 7.50 | 1.09 | 317 | 74 | NMRV040 | NRV040 |
| 407 | 114.0 | 10.00 | 0.88 | 348 | 79 | NMRV040 | NRV040 |
| 416 | 76.0 | 15.00 | 0.62 | 399 | 79 | NMRV040 | NRV040 |
| 403 | 57.0 | 20.00 | 0.47 | 439 | 79 | NMRV040 | NRV040 |
| 372 | 46.0 | 25.00 | 0.36 | 473 | 79 | NMRV040 | NRV040 |
| 447 | 38.0 | 30.00 | 0.39 | 503 | 79 | NMRV040 | NRV040 |
| 420 | 29.0 | 40.00 | 0.29 | 553 | 79 | NMRV040 | NRV040 |
| 389 | 23.0 | 50.00 | 0.23 | 596 | 79 | NMRV040 | NRV040 |
| 354 | 19.0 | 60.00 | 0.19 | 633 | 79 | NMRV040 | NRV040 |
| 301 | 14.0 | 80.00 | 0.13 | 697 | 79 | NMRV040 | NRV040 |
| 270 | 11.0 | 100.00 | 0.11 | 751 | 79 | NMRV040 | NRV040 |
| 664 | 228.0 | 5.00 | 2.7 | 380 | 90 | NMRV050 | NRV050 |
| 743 | 152.0 | 7.50 | 2.06 | 435 | 101 | NMRV050 | NRV050 |
| 757 | 114.0 | 10.00 | 1.59 | 478 | 110 | NMRV050 | NRV050 |
| 765 | 76.0 | 15.00 | 1.13 | 547 | 110 | NMRV050 | NRV050 |
| 712 | 57.0 | 20.00 | 0.82 | 603 | 110 | NMRV050 | NRV050 |
| 650 | 46.0 | 25.00 | 0.62 | 649 | 110 | NMRV050 | NRV050 |
| 805 | 38.0 | 30.00 | 0.68 | 690 | 110 | NMRV050 | NRV050 |
| 752 | 29.0 | 40.00 | 0.52 | 759 | 110 | NMRV050 | NRV050 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 699 | 23.0 | 50.00 | 0.41 | 818 | 110 | NMRV050 | NRV050 |
| 655 | 19.0 | 60.00 | 0.34 | 869 | 110 | NMRV050 | NRV050 |
| 588 | 14.0 | 80.00 | 0.26 | 957 | 110 | NMRV050 | NRV050 |
| 491 | 11.0 | 100.00 | 0.19 | 1030 | 110 | NMRV050 | NRV050 |
| 1234 | 152.0 | 7.50 | 3.36 | 568 | 130 | NMRV-P063 | NRV-P063 |
| 1262 | 114.0 | 10.00 | 2.65 | 625 | 150 | NMRV-P063 | NRV-P063 |
| 1408 | 76.0 | 15.00 | 2.04 | 716 | 157 | NMRV-P063 | NRV-P063 |
| 1363 | 57.0 | 20.00 | 1.53 | 788 | 157 | NMRV-P063 | NRV-P063 |
| 1249 | 46.0 | 25.00 | 1.16 | 848 | 157 | NMRV-P063 | NRV-P063 |
| 1486 | 38.0 | 30.00 | 1.22 | 902 | 157 | NMRV-P063 | NRV-P063 |
| 1413 | 29.0 | 40.00 | 0.93 | 992 | 157 | NMRV-P063 | NRV-P063 |
| 1342 | 23.0 | 50.00 | 0.75 | 1069 | 157 | NMRV-P063 | NRV-P063 |
| 1271 | 19.0 | 60.00 | 0.62 | 1136 | 157 | NMRV-P063 | NRV-P063 |
| 1145 | 14.0 | 80.00 | 0.46 | 1250 | 157 | NMRV-P063 | NRV-P063 |
| 1071 | 11.0 | 100.00 | 0.38 | 1347 | 157 | NMRV-P063 | NRV-P063 |
| 1771 | 152.0 | 7.50 | 4.82 | 670 | 182 | NMRV-P075 | NRV-P075 |
| 1881 | 114.0 | 10.00 | 3.92 | 738 | 218 | NMRV-P075 | NRV-P075 |
| 2213 | 76.0 | 15.00 | 3.16 | 845 | 220 | NMRV-P075 | NRV-P075 |
| 2212 | 57.0 | 20.00 | 2.47 | 930 | 220 | NMRV-P075 | NRV-P075 |
| 2014 | 46.0 | 25.00 | 1.84 | 1001 | 220 | NMRV-P075 | NRV-P075 |
| 2340 | 38.0 | 30.00 | 1.89 | 1064 | 220 | NMRV-P075 | NRV-P075 |
| 2315 | 29.0 | 40.00 | 1.49 | 1171 | 220 | NMRV-P075 | NRV-P075 |
| 2123 | 23.0 | 50.00 | 1.15 | 1262 | 220 | NMRV-P075 | NRV-P075 |
| 2040 | 19.0 | 60.00 | 0.97 | 1341 | 220 | NMRV-P075 | NRV-P075 |
| 1835 | 14.0 | 80.00 | 0.72 | 1476 | 220 | NMRV-P075 | NRV-P075 |
| 1664 | 11.0 | 100.00 | 0.57 | 1590 | 220 | NMRV-P075 | NRV-P075 |
| 3067 | 152.0 | 7.50 | 8.25 | 742 | 234 | NMRV-P090 | NRV-P090 |
| 3310 | 114.0 | 10.00 | 6.79 | 816 | 286 | NMRV-P090 | NRV-P090 |
| 3797 | 76.0 | 15.00 | 5.31 | 935 | 286 | NMRV-P090 | NRV-P090 |
| 3629 | 57.0 | 20.00 | 3.92 | 1029 | 286 | NMRV-P090 | NRV-P090 |
| 3456 | 46.0 | 25.00 | 3.06 | 1108 | 286 | NMRV-P090 | NRV-P090 |
| 4058 | 38.0 | 30.00 | 3.14 | 1178 | 286 | NMRV-P090 | NRV-P090 |
| 3748 | 29.0 | 40.00 | 2.28 | 1296 | 286 | NMRV-P090 | NRV-P090 |
| 3554 | 23.0 | 50.00 | 1.8 | 1396 | 286 | NMRV-P090 | NRV-P090 |
| 3262 | 19.0 | 60.00 | 1.45 | 1484 | 286 | NMRV-P090 | NRV-P090 |
| 2655 | 14.0 | 80.00 | 0.96 | 1633 | 286 | NMRV-P090 | NRV-P090 |
| 2434 | 11.0 | 100.00 | 0.76 | 1759 | 286 | NMRV-P090 | NRV-P090 |
| 5320 | 152.0 | 7.50 | 14.32 | 937 | 312 | NMRV-P110 | NRV-P110 |
| 5802 | 114.0 | 10.00 | 11.84 | 1032 | 382 | NMRV-P110 | NRV-P110 |
| 6262 | 76.0 | 15.00 | 8.72 | 1181 | 382 | NMRV-P110 | NRV-P110 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 6059 | 57.0 | 20.00 | 6.43 | 1300 | 382 | NMRV-P110 | NRV-P110 |
| 6364 | 46.0 | 25.00 | 5.49 | 1400 | 382 | NMRV-P110 | NRV-P110 |
| 6926 | 38.0 | 30.00 | 5.3 | 1488 | 382 | NMRV-P110 | NRV-P110 |
| 6620 | 29.0 | 40.00 | 3.87 | 1638 | 382 | NMRV-P110 | NRV-P110 |
| 6231 | 23.0 | 50.00 | 3.03 | 1764 | 382 | NMRV-P110 | NRV-P110 |
| 5744 | 19.0 | 60.00 | 2.4 | 1875 | 382 | NMRV-P110 | NRV-P110 |
| 4788 | 14.0 | 80.00 | 1.63 | 2063 | 382 | NMRV-P110 | NRV-P110 |
| 4416 | 11.0 | 100.00 | 1.29 | 2223 | 382 | NMRV-P110 | NRV-P110 |
| 7213 | 152.0 | 7.50 | 19.33 | 1226 | 391 | NMRV130 | NRV130 |
| 7877 | 114.0 | 10.00 | 16.19 | 1349 | 472 | NMRV130 | NRV130 |
| 8763 | 76.0 | 15.00 | 12.43 | 1545 | 472 | NMRV130 | NRV130 |
| 8630 | 57.0 | 20.00 | 9.18 | 1700 | 472 | NMRV130 | NRV130 |
| 8763 | 46.0 | 25.00 | 7.64 | 1831 | 472 | NMRV130 | NRV130 |
| 9780 | 38.0 | 30.00 | 7.46 | 1946 | 472 | NMRV130 | NRV130 |
| 9515 | 29.0 | 40.00 | 5.66 | 2142 | 472 | NMRV130 | NRV130 |
| 8984 | 23.0 | 50.00 | 4.45 | 2307 | 472 | NMRV130 | NRV130 |
| 8142 | 19.0 | 60.00 | 3.51 | 2452 | 472 | NMRV130 | NRV130 |
| 7523 | 14.0 | 80.00 | 2.62 | 2699 | 472 | NMRV130 | NRV130 |
| 6727 | 11.0 | 100.00 | 2.03 | 2907 | 472 | NMRV130 | NRV130 |
| 12391 | 152.0 | 7.50 | 33.2 | 1676 | 510 | NMRV150 | NRV150 |
| 13099 | 114.0 | 10.00 | 26.62 | 1845 | 607 | NMRV150 | NRV150 |
| 12834 | 76.0 | 15.00 | 17.79 | 2112 | 595 | NMRV150 | NRV150 |
| 13276 | 57.0 | 20.00 | 14.12 | 2324 | 629 | NMRV150 | NRV150 |
| 12214 | 46.0 | 25.00 | 10.52 | 2504 | 629 | NMRV150 | NRV150 |
| 12391 | 38.0 | 30.00 | 9.11 | 2661 | 629 | NMRV150 | NRV150 |
| 15932 | 29.0 | 40.00 | 9.48 | 2928 | 629 | NMRV150 | NRV150 |
| 14161 | 23.0 | 50.00 | 6.92 | 3154 | 629 | NMRV150 | NRV150 |
| 12745 | 19.0 | 60.00 | 5.41 | 3352 | 629 | NMRV150 | NRV150 |
| 11505 | 14.0 | 80.00 | 3.94 | 3689 | 629 | NMRV150 | NRV150 |
| 10178 | 11.0 | 100.00 | 3.02 | 3974 | 629 | NMRV150 | NRV150 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 92 | 350.0 | 5.00 | 0.59 | 92 | - | NMRV025 | - |
| 92 | 233.0 | 7.50 | 0.4 | 105 | - | NMRV025 | - |
| 101 | 175.0 | 10.00 | 0.34 | 115 | - | NMRV025 | - |
| 101 | 117.0 | 15.00 | 0.24 | 132 | - | NMRV025 | - |
| 101 | 88.0 | 20.00 | 0.19 | 146 | - | NMRV025 | - |
| 109 | 58.0 | 30.00 | 0.15 | 167 | - | NMRV025 | - |
| 109 | 44.0 | 40.00 | 0.12 | 183 | - | NMRV025 | - |
| 92 | 35.0 | 50.00 | 0.09 | 197 | - | NMRV025 | - |
| 84 | 29.0 | 60.00 | 0.07 | 210 | - | NMRV025 | - |
| 160 | 350.0 | 5.00 | 1.02 | 125 | 34 | NMRV030 | NRV030 |
| 160 | 233.0 | 7.50 | 0.7 | 143 | 34 | NMRV030 | NRV030 |
| 160 | 175.0 | 10.00 | 0.54 | 157 | 38 | NMRV030 | NRV030 |
| 160 | 117.0 | 15.00 | 0.38 | 180 | 38 | NMRV030 | NRV030 |
| 151 | 88.0 | 20.00 | 0.28 | 198 | 40 | NMRV030 | NRV030 |
| 185 | 70.0 | 25.00 | 0.3 | 213 | 47 | NMRV030 | NRV030 |
| 177 | 58.0 | 30.00 | 0.25 | 226 | 47 | NMRV030 | NRV030 |
| 160 | 44.0 | 40.00 | 0.19 | 249 | 47 | NMRV030 | NRV030 |
| 151 | 35.0 | 50.00 | 0.15 | 268 | 47 | NMRV030 | NRV030 |
| 134 | 29.0 | 60.00 | 0.12 | 285 | 47 | NMRV030 | NRV030 |
| 109 | 22.0 | 80.00 | 0.08 | 314 | 47 | NMRV030 | NRV030 |
| 303 | 350.0 | 5.00 | 1.89 | 240 | 56 | NMRV040 | NRV040 |
| 353 | 233.0 | 7.50 | 1.5 | 274 | 65 | NMRV040 | NRV040 |
| 370 | 175.0 | 10.00 | 1.21 | 302 | 77 | NMRV040 | NRV040 |
| 370 | 117.0 | 15.00 | 0.83 | 346 | 77 | NMRV040 | NRV040 |
| 361 | 88.0 | 20.00 | 0.63 | 381 | 79 | NMRV040 | NRV040 |
| 328 | 70.0 | 25.00 | 0.48 | 410 | 79 | NMRV040 | NRV040 |
| 403 | 58.0 | 30.00 | 0.53 | 436 | 79 | NMRV040 | NRV040 |
| 378 | 44.0 | 40.00 | 0.4 | 479 | 79 | NMRV040 | NRV040 |
| 353 | 35.0 | 50.00 | 0.31 | 517 | 79 | NMRV040 | NRV040 |
| 319 | 29.0 | 60.00 | 0.25 | 549 | 79 | NMRV040 | NRV040 |
| 277 | 22.0 | 80.00 | 0.18 | 604 | 79 | NMRV040 | NRV040 |
| 244 | 18.0 | 100.00 | 0.14 | 651 | 79 | NMRV040 | NRV040 |
| 572 | 350.0 | 5.00 | 3.57 | 329 | 79 | NMRV050 | NRV050 |
| 647 | 233.0 | 7.50 | 2.72 | 377 | 89 | NMRV050 | NRV050 |
| 664 | 175.0 | 10.00 | 2.12 | 415 | 110 | NMRV050 | NRV050 |
| 681 | 117.0 | 15.00 | 1.52 | 475 | 110 | NMRV050 | NRV050 |
| 656 | 88.0 | 20.00 | 1.14 | 522 | 110 | NMRV050 | NRV050 |
| 597 | 70.0 | 25.00 | 0.86 | 563 | 110 | NMRV050 | NRV050 |
| 740 | 58.0 | 30.00 | 0.94 | 598 | 110 | NMRV050 | NRV050 |
| 689 | 44.0 | 40.00 | 0.7 | 658 | 110 | NMRV050 | NRV050 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 647 | 35.0 | 50.00 | 0.56 | 709 | 110 | NMRV050 | NRV050 |
| 605 | 29.0 | 60.00 | 0.47 | 753 | 110 | NMRV050 | NRV050 |
| 546 | 22.0 | 80.00 | 0.35 | 829 | 110 | NMRV050 | NRV050 |
| 462 | 18.0 | 100.00 | 0.26 | 893 | 110 | NMRV050 | NRV050 |
| 1076 | 233.0 | 7.50 | 4.46 | 492 | 112 | NMRV-P063 | NRV-P063 |
| 1108 | 175.0 | 10.00 | 3.52 | 542 | 130 | NMRV-P063 | NRV-P063 |
| 1236 | 117.0 | 15.00 | 2.7 | 620 | 145 | NMRV-P063 | NRV-P063 |
| 1225 | 88.0 | 20.00 | 2.06 | 683 | 157 | NMRV-P063 | NRV-P063 |
| 1124 | 70.0 | 25.00 | 1.56 | 736 | 157 | NMRV-P063 | NRV-P063 |
| 1345 | 58.0 | 30.00 | 1.64 | 782 | 157 | NMRV-P063 | NRV-P063 |
| 1261 | 44.0 | 40.00 | 1.21 | 860 | 157 | NMRV-P063 | NRV-P063 |
| 1208 | 35.0 | 50.00 | 0.99 | 927 | 157 | NMRV-P063 | NRV-P063 |
| 1135 | 29.0 | 60.00 | 0.82 | 985 | 157 | NMRV-P063 | NRV-P063 |
| 1027 | 22.0 | 80.00 | 0.6 | 1084 | 157 | NMRV-P063 | NRV-P063 |
| 992 | 18.0 | 100.00 | 0.51 | 1168 | 157 | NMRV-P063 | NRV-P063 |
| 1555 | 233.0 | 7.50 | 6.44 | 581 | 157 | NMRV-P075 | NRV-P075 |
| 1656 | 175.0 | 10.00 | 5.2 | 640 | 189 | NMRV-P075 | NRV-P075 |
| 1900 | 117.0 | 15.00 | 4.07 | 732 | 216 | NMRV-P075 | NRV-P075 |
| 1953 | 88.0 | 20.00 | 3.24 | 806 | 220 | NMRV-P075 | NRV-P075 |
| 1784 | 70.0 | 25.00 | 2.43 | 868 | 220 | NMRV-P075 | NRV-P075 |
| 2028 | 58.0 | 30.00 | 2.41 | 923 | 220 | NMRV-P075 | NRV-P075 |
| 2029 | 44.0 | 40.00 | 1.9 | 1015 | 220 | NMRV-P075 | NRV-P075 |
| 1881 | 35.0 | 50.00 | 1.47 | 1094 | 220 | NMRV-P075 | NRV-P075 |
| 1778 | 29.0 | 60.00 | 1.22 | 1162 | 220 | NMRV-P075 | NRV-P075 |
| 1632 | 22.0 | 80.00 | 0.91 | 1279 | 220 | NMRV-P075 | NRV-P075 |
| 1517 | 18.0 | 100.00 | 0.74 | 1378 | 220 | NMRV-P075 | NRV-P075 |
| 2682 | 233.0 | 7.50 | 10.98 | 643 | 202 | NMRV-P090 | NRV-P090 |
| 2867 | 175.0 | 10.00 | 8.92 | 708 | 243 | NMRV-P090 | NRV-P090 |
| 3330 | 117.0 | 15.00 | 7.05 | 810 | 283 | NMRV-P090 | NRV-P090 |
| 3288 | 88.0 | 20.00 | 5.33 | 892 | 286 | NMRV-P090 | NRV-P090 |
| 3145 | 70.0 | 25.00 | 4.18 | 961 | 286 | NMRV-P090 | NRV-P090 |
| 3632 | 58.0 | 30.00 | 4.21 | 1021 | 286 | NMRV-P090 | NRV-P090 |
| 3330 | 44.0 | 40.00 | 3.01 | 1123 | 286 | NMRV-P090 | NRV-P090 |
| 3145 | 35.0 | 50.00 | 2.36 | 1210 | 286 | NMRV-P090 | NRV-P090 |
| 2960 | 29.0 | 60.00 | 1.93 | 1286 | 286 | NMRV-P090 | NRV-P090 |
| 2397 | 22.0 | 80.00 | 1.27 | 1416 | 286 | NMRV-P090 | NRV-P090 |
| 2271 | 18.0 | 100.00 | 1.03 | 1525 | 286 | NMRV-P090 | NRV-P090 |
| 4641 | 233.0 | 7.50 | 19 | 813 | 270 | NMRV-P110 | NRV-P110 |
| 5029 | 175.0 | 10.00 | 15.61 | 894 | 329 | NMRV-P110 | NRV-P110 |
| 5516 | 117.0 | 15.00 | 11.65 | 1024 | 361 | NMRV-P110 | NRV-P110 |

5.4 WORM GEAR REDUCER - 1750 rpm

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 5415 | 88.0 | 20.00 | 8.68 | 1127 | 382 | NMRV-P110 | NRV-P110 |
| 5709 | 70.0 | 25.00 | 7.4 | 1214 | 382 | NMRV-P110 | NRV-P110 |
| 6096 | 58.0 | 30.00 | 6.98 | 1290 | 382 | NMRV-P110 | NRV-P110 |
| 5903 | 44.0 | 40.00 | 5.13 | 1420 | 382 | NMRV-P110 | NRV-P110 |
| 5550 | 35.0 | 50.00 | 4.01 | 1529 | 382 | NMRV-P110 | NRV-P110 |
| 5180 | 29.0 | 60.00 | 3.2 | 1625 | 382 | NMRV-P110 | NRV-P110 |
| 4330 | 22.0 | 80.00 | 2.17 | 1789 | 382 | NMRV-P110 | NRV-P110 |
| 4061 | 18.0 | 100.00 | 1.73 | 1927 | 382 | NMRV-P110 | NRV-P110 |
| 6306 | 233.0 | 7.50 | 25.65 | 1063 | 337 | NMRV130 | NRV130 |
| 6895 | 175.0 | 10.00 | 21.51 | 1170 | 415 | NMRV130 | NRV130 |
| 7735 | 117.0 | 15.00 | 16.46 | 1339 | 465 | NMRV130 | NRV130 |
| 7651 | 88.0 | 20.00 | 12.21 | 1474 | 472 | NMRV130 | NRV130 |
| 7819 | 70.0 | 25.00 | 10.22 | 1588 | 472 | NMRV130 | NRV130 |
| 8745 | 58.0 | 30.00 | 9.99 | 1687 | 472 | NMRV130 | NRV130 |
| 8829 | 44.0 | 40.00 | 7.76 | 1857 | 472 | NMRV130 | NRV130 |
| 8240 | 35.0 | 50.00 | 6.02 | 2000 | 472 | NMRV130 | NRV130 |
| 7567 | 29.0 | 60.00 | 4.8 | 2126 | 472 | NMRV130 | NRV130 |
| 7063 | 22.0 | 80.00 | 3.55 | 2339 | 472 | NMRV130 | NRV130 |
| 6222 | 18.0 | 100.00 | 2.66 | 2520 | 472 | NMRV130 | NRV130 |
| 10090 | 233.0 | 7.50 | 41.05 | 1453 | 438 | NMRV150 | NRV150 |
| 10426 | 175.0 | 10.00 | 32.16 | 1599 | 510 | NMRV150 | NRV150 |
| 10510 | 117.0 | 15.00 | 22.11 | 1831 | 514 | NMRV150 | NRV150 |
| 10930 | 88.0 | 20.00 | 17.44 | 2015 | 601 | NMRV150 | NRV150 |
| 10090 | 70.0 | 25.00 | 13.18 | 2170 | 629 | NMRV150 | NRV150 |
| 10090 | 58.0 | 30.00 | 11.12 | 2306 | 629 | NMRV150 | NRV150 |
| 13033 | 44.0 | 40.00 | 11.45 | 2538 | 629 | NMRV150 | NRV150 |
| 11772 | 35.0 | 50.00 | 8.49 | 2734 | 629 | NMRV150 | NRV150 |
| 10594 | 29.0 | 60.00 | 6.62 | 2906 | 629 | NMRV150 | NRV150 |
| 9670 | 22.0 | 80.00 | 4.86 | 3198 | 629 | NMRV150 | NRV150 |
| 8409 | 18.0 | 100.00 | 3.59 | 3445 | 629 | NMRV150 | NRV150 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 67 | 700.0 | 5.00 | 0.84 | 73 | - | NMRV025 | - |
| 67 | 467.0 | 7.50 | 0.57 | 83 | - | NMRV025 | - |
| 76 | 350.0 | 10.00 | 0.49 | 92 | - | NMRV025 | - |
| 76 | 233.0 | 15.00 | 0.34 | 105 | - | NMRV025 | - |
| 76 | 175.0 | 20.00 | 0.27 | 115 | - | NMRV025 | - |
| 76 | 117.0 | 30.00 | 0.19 | 132 | - | NMRV025 | - |
| 76 | 88.0 | 40.00 | 0.15 | 146 | - | NMRV025 | - |
| 76 | 70.0 | 50.00 | 0.13 | 157 | - | NMRV025 | - |
| 67 | 58.0 | 60.00 | 0.1 | 167 | - | NMRV025 | - |
| 101 | 700.0 | 5.00 | 1.26 | 99 | 26 | NMRV030 | NRV030 |
| 109 | 467.0 | 7.50 | 0.93 | 113 | 28 | NMRV030 | NRV030 |
| 109 | 350.0 | 10.00 | 0.7 | 125 | 31 | NMRV030 | NRV030 |
| 109 | 233.0 | 15.00 | 0.49 | 143 | 31 | NMRV030 | NRV030 |
| 101 | 175.0 | 20.00 | 0.36 | 157 | 33 | NMRV030 | NRV030 |
| 134 | 140.0 | 25.00 | 0.4 | 169 | 47 | NMRV030 | NRV030 |
| 126 | 117.0 | 30.00 | 0.32 | 180 | 47 | NMRV030 | NRV030 |
| 118 | 88.0 | 40.00 | 0.24 | 198 | 29 | NMRV030 | NRV030 |
| 109 | 70.0 | 50.00 | 0.19 | 213 | 29 | NMRV030 | NRV030 |
| 101 | 58.0 | 60.00 | 0.16 | 226 | 28 | NMRV030 | NRV030 |
| 92 | 44.0 | 80.00 | 0.12 | 249 | 29 | NMRV030 | NRV030 |
| 202 | 700.0 | 5.00 | 2.49 | 190 | 45 | NMRV040 | NRV040 |
| 235 | 467.0 | 7.50 | 1.96 | 218 | 52 | NMRV040 | NRV040 |
| 244 | 350.0 | 10.00 | 1.54 | 240 | 61 | NMRV040 | NRV040 |
| 261 | 233.0 | 15.00 | 1.14 | 274 | 65 | NMRV040 | NRV040 |
| 244 | 175.0 | 20.00 | 0.82 | 302 | 46 | NMRV040 | NRV040 |
| 235 | 140.0 | 25.00 | 0.65 | 325 | 53 | NMRV040 | NRV040 |
| 286 | 117.0 | 30.00 | 0.69 | 346 | 79 | NMRV040 | NRV040 |
| 261 | 88.0 | 40.00 | 0.5 | 381 | 79 | NMRV040 | NRV040 |
| 252 | 70.0 | 50.00 | 0.41 | 410 | 79 | NMRV040 | NRV040 |
| 235 | 58.0 | 60.00 | 0.33 | 436 | 79 | NMRV040 | NRV040 |
| 210 | 44.0 | 80.00 | 0.24 | 479 | 79 | NMRV040 | NRV040 |
| 193 | 35.0 | 100.00 | 0.19 | 517 | 79 | NMRV040 | NRV040 |
| 378 | 700.0 | 5.00 | 4.61 | 261 | 63 | NMRV050 | NRV050 |
| 437 | 467.0 | 7.50 | 3.6 | 299 | 73 | NMRV050 | NRV050 |
| 454 | 350.0 | 10.00 | 2.83 | 329 | 85 | NMRV050 | NRV050 |
| 479 | 233.0 | 15.00 | 2.06 | 377 | 90 | NMRV050 | NRV050 |
| 446 | 175.0 | 20.00 | 1.49 | 415 | 94 | NMRV050 | NRV050 |
| 429 | 140.0 | 25.00 | 1.18 | 447 | 108 | NMRV050 | NRV050 |
| 538 | 117.0 | 30.00 | 1.29 | 475 | 110 | NMRV050 | NRV050 |
| 496 | 88.0 | 40.00 | 0.93 | 522 | 110 | NMRV050 | NRV050 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 446 | 70.0 | 50.00 | 0.71 | 563 | 110 | NMRV050 | NRV050 |
| 420 | 58.0 | 60.00 | 0.58 | 598 | 110 | NMRV050 | NRV050 |
| 378 | 44.0 | 80.00 | 0.42 | 658 | 110 | NMRV050 | NRV050 |
| 336 | 35.0 | 100.00 | 0.33 | 709 | 110 | NMRV050 | NRV050 |
| 793 | 467.0 | 7.50 | 6.39 | 391 | 89 | NMRV-P063 | NRV-P063 |
| 838 | 350.0 | 10.00 | 5.11 | 430 | 106 | NMRV-P063 | NRV-P063 |
| 885 | 233.0 | 15.00 | 3.68 | 492 | 111 | NMRV-P063 | NRV-P063 |
| 841 | 175.0 | 20.00 | 2.68 | 542 | 119 | NMRV-P063 | NRV-P063 |
| 774 | 140.0 | 25.00 | 2.02 | 584 | 132 | NMRV-P063 | NRV-P063 |
| 1009 | 117.0 | 30.00 | 2.28 | 620 | 157 | NMRV-P063 | NRV-P063 |
| 922 | 88.0 | 40.00 | 1.62 | 683 | 157 | NMRV-P063 | NRV-P063 |
| 849 | 70.0 | 50.00 | 1.26 | 736 | 157 | NMRV-P063 | NRV-P063 |
| 803 | 58.0 | 60.00 | 1.03 | 782 | 157 | NMRV-P063 | NRV-P063 |
| 714 | 44.0 | 80.00 | 0.74 | 860 | 157 | NMRV-P063 | NRV-P063 |
| 641 | 35.0 | 100.00 | 0.58 | 927 | 157 | NMRV-P063 | NRV-P063 |
| 1131 | 467.0 | 7.50 | 9.1 | 461 | 126 | NMRV-P075 | NRV-P075 |
| 1283 | 350.0 | 10.00 | 7.83 | 508 | 161 | NMRV-P075 | NRV-P075 |
| 1349 | 233.0 | 15.00 | 5.61 | 581 | 169 | NMRV-P075 | NRV-P075 |
| 1357 | 175.0 | 20.00 | 4.31 | 640 | 191 | NMRV-P075 | NRV-P075 |
| 1261 | 140.0 | 25.00 | 3.26 | 689 | 220 | NMRV-P075 | NRV-P075 |
| 1524 | 117.0 | 30.00 | 3.4 | 732 | 220 | NMRV-P075 | NRV-P075 |
| 1457 | 88.0 | 40.00 | 2.53 | 806 | 220 | NMRV-P075 | NRV-P075 |
| 1315 | 70.0 | 50.00 | 1.88 | 868 | 220 | NMRV-P075 | NRV-P075 |
| 1260 | 58.0 | 60.00 | 1.57 | 923 | 220 | NMRV-P075 | NRV-P075 |
| 1118 | 44.0 | 80.00 | 1.12 | 1015 | 220 | NMRV-P075 | NRV-P075 |
| 1038 | 35.0 | 100.00 | 0.89 | 1094 | 220 | NMRV-P075 | NRV-P075 |
| 1766 | 467.0 | 7.50 | 14.06 | 510 | 161 | NMRV-P090 | NRV-P090 |
| 1976 | 350.0 | 10.00 | 11.92 | 562 | 202 | NMRV-P090 | NRV-P090 |
| 2271 | 233.0 | 15.00 | 9.24 | 643 | 233 | NMRV-P090 | NRV-P090 |
| 2186 | 175.0 | 20.00 | 6.74 | 708 | 252 | NMRV-P090 | NRV-P090 |
| 2102 | 140.0 | 25.00 | 5.3 | 762 | 286 | NMRV-P090 | NRV-P090 |
| 2607 | 117.0 | 30.00 | 5.68 | 810 | 286 | NMRV-P090 | NRV-P090 |
| 2313 | 88.0 | 40.00 | 3.87 | 892 | 286 | NMRV-P090 | NRV-P090 |
| 2229 | 70.0 | 50.00 | 3.09 | 961 | 286 | NMRV-P090 | NRV-P090 |
| 2060 | 58.0 | 60.00 | 2.44 | 1021 | 286 | NMRV-P090 | NRV-P090 |
| 1892 | 44.0 | 80.00 | 1.82 | 1123 | 286 | NMRV-P090 | NRV-P090 |
| 1682 | 35.0 | 100.00 | 1.35 | 1210 | 286 | NMRV-P090 | NRV-P090 |
| 3288 | 467.0 | 7.50 | 26.18 | 645 | 214 | NMRV-P110 | NRV-P110 |
| 3674 | 350.0 | 10.00 | 22.18 | 710 | 268 | NMRV-P110 | NRV-P110 |
| 4111 | 233.0 | 15.00 | 16.72 | 813 | 300 | NMRV-P110 | NRV-P110 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 4061 | 175.0 | 20.00 | 12.53 | 894 | 334 | NMRV-P110 | NRV-P110 |
| 4254 | 140.0 | 25.00 | 10.5 | 963 | 382 | NMRV-P110 | NRV-P110 |
| 4641 | 117.0 | 30.00 | 9.87 | 1024 | 382 | NMRV-P110 | NRV-P110 |
| 4448 | 88.0 | 40.00 | 7.18 | 1127 | 382 | NMRV-P110 | NRV-P110 |
| 4162 | 70.0 | 50.00 | 5.57 | 1214 | 382 | NMRV-P110 | NRV-P110 |
| 3977 | 58.0 | 60.00 | 4.49 | 1290 | 382 | NMRV-P110 | NRV-P110 |
| 3355 | 44.0 | 80.00 | 2.71 | 1420 | 382 | NMRV-P110 | NRV-P110 |
| 3094 | 35.0 | 100.00 | 2.35 | 1529 | 382 | NMRV-P110 | NRV-P110 |
| 4372 | 467.0 | 7.50 | 35.19 | 844 | 268 | NMRV130 | NRV130 |
| 4876 | 350.0 | 10.00 | 29.76 | 928 | 336 | NMRV130 | NRV130 |
| 5634 | 233.0 | 15.00 | 23.43 | 1063 | 388 | NMRV130 | NRV130 |
| 5550 | 175.0 | 20.00 | 17.31 | 1170 | 430 | NMRV130 | NRV130 |
| 5634 | 140.0 | 25.00 | 14.22 | 1260 | 472 | NMRV130 | NRV130 |
| 6474 | 117.0 | 30.00 | 14.1 | 1339 | 472 | NMRV130 | NRV130 |
| 6138 | 88.0 | 40.00 | 10.27 | 1474 | 472 | NMRV130 | NRV130 |
| 5886 | 70.0 | 50.00 | 8.07 | 1588 | 472 | NMRV130 | NRV130 |
| 5382 | 58.0 | 60.00 | 6.3 | 1687 | 472 | NMRV130 | NRV130 |
| 4960 | 44.0 | 80.00 | 4.65 | 1857 | 472 | NMRV130 | NRV130 |
| 4372 | 35.0 | 100.00 | 3.42 | 2000 | 472 | NMRV130 | NRV130 |
| 7063 | 467.0 | 7.50 | 56.84 | 1153 | 348 | NMRV150 | NRV150 |
| 7483 | 350.0 | 10.00 | 45.17 | 1269 | 415 | NMRV150 | NRV150 |
| 7651 | 233.0 | 15.00 | 31.47 | 1453 | 425 | NMRV150 | NRV150 |
| 8240 | 175.0 | 20.00 | 25.42 | 1599 | 515 | NMRV150 | NRV150 |
| 7483 | 140.0 | 25.00 | 18.89 | 1723 | 561 | NMRV150 | NRV150 |
| 7735 | 117.0 | 30.00 | 16.46 | 1831 | 629 | NMRV150 | NRV150 |
| 10090 | 88.0 | 40.00 | 16.68 | 2015 | 629 | NMRV150 | NRV150 |
| 9249 | 70.0 | 50.00 | 12.68 | 2170 | 629 | NMRV150 | NRV150 |
| 8325 | 58.0 | 60.00 | 9.75 | 2306 | 629 | NMRV150 | NRV150 |
| 7735 | 44.0 | 80.00 | 7.16 | 2538 | 629 | NMRV150 | NRV150 |
| 6811 | 35.0 | 100.00 | 5.25 | 2734 | 629 | NMRV150 | NRV150 |

0.12 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 52.0 | 7.5 | 117 | 2.94 | 7.50 | 22.08 | 877 | 623 | HA31+NMRV050 | TS63A6 | - | - |
| 52.0 | 4.7 | 116 | 2.94 | 7.50 | 22.08 | 549 | 454 | HA31+NMRV040 | TS63A6 | - | - |
| 48.0 | 5.1 | 128 | 4.75 | 5.00 | 23.75 | 647 | 638 | HA31+NMRV050 | TS63A6 | - | - |
| 48.0 | 4.6 | 128 | 4.75 | 5.00 | 23.75 | 583 | 465 | HA31+NMRV040 | TS63A6 | - | - |
| 45.0 | 4.9 | 137 | 5.10 | 5.00 | 25.50 | 675 | 653 | HA31+NMRV050 | TS63A6 | - | - |
| 45.0 | 4.3 | 137 | 5.10 | 5.00 | 25.50 | 591 | 476 | HA31+NMRV040 | TS63A6 | - | - |
| 39.0 | 7.1 | 153 | 2.94 | 10.00 | 29.44 | 1080 | 685 | HA31+NMRV050 | TS63A6 | - | - |
| 39.0 | 3.8 | 149 | 2.94 | 10.00 | 29.44 | 562 | 499 | HA31+NMRV040 | TS63A6 | - | - |
| 36.0 | 4.0 | 169 | 6.30 | 5.00 | 31.50 | 673 | 701 | HA31+NMRV050 | TS63A6 | - | - |
| 36.0 | 3.6 | 169 | 6.30 | 5.00 | 31.50 | 602 | 511 | HA31+NMRV040 | TS63A6 | - | - |
| 32.0 | 5.1 | 187 | 4.75 | 7.50 | 35.63 | 948 | 730 | HA31+NMRV050 | TS63A6 | - | - |
| 32.0 | 3.4 | 184 | 4.75 | 7.50 | 35.63 | 618 | 532 | HA31+NMRV040 | TS63A6 | - | - |
| 28.0 | 4.6 | 214 | 5.45 | 7.50 | 40.91 | 987 | 765 | HA31+NMRV050 | TS63A6 | - | - |
| 28.0 | 3.0 | 212 | 5.45 | 7.50 | 40.91 | 633 | 557 | HA31+NMRV040 | TS63A6 | - | - |
| 26.0 | 5.0 | 213 | 2.94 | 15.00 | 44.17 | 1073 | 785 | HA31+NMRV050 | TS63A6 | - | - |
| 26.0 | 2.7 | 212 | 2.94 | 15.00 | 44.17 | 577 | 572 | HA31+NMRV040 | TS63A6 | - | - |
| 24.0 | 4.9 | 243 | 4.75 | 10.00 | 47.50 | 1184 | 804 | HA31+NMRV050 | TS63A6 | - | - |
| 24.0 | 2.6 | 237 | 4.75 | 10.00 | 47.50 | 614 | 586 | HA31+NMRV040 | TS63A6 | - | - |
| 21.0 | 4.3 | 279 | 5.45 | 10.00 | 54.55 | 1206 | 842 | HA31+NMRV050 | TS63A6 | - | - |
| 21.0 | 2.3 | 272 | 5.45 | 10.00 | 54.55 | 625 | 613 | HA31+NMRV040 | TS63A6 | - | - |
| 20.0 | 7.6 | 279 | 3.87 | 15.00 | 58.00 | 2110 | 1123 | HW030+NMRV-P063 | TS63A6 | - | - |
| 19.0 | 3.5 | 270 | 2.94 | 20.00 | 58.89 | 952 | 864 | HA31+NMRV050 | TS63A6 | - | - |
| 19.0 | 2.0 | 268 | 2.94 | 20.00 | 58.89 | 531 | 629 | HA31+NMRV040 | TS63A6 | - | - |
| 18.0 | 3.8 | 322 | 6.30 | 10.00 | 63.00 | 1213 | 883 | HA31+NMRV050 | TS63A6 | - | - |
| 18.0 | 2.0 | 314 | 6.30 | 10.00 | 63.00 | 628 | 644 | HA31+NMRV040 | TS63A6 | - | - |
| 16.0 | 6.6 | 341 | 4.75 | 15.00 | 71.25 | 2261 | 1203 | HW030+NMRV-P063 | TS63A6 | - | - |
| 16.0 | 3.5 | 337 | 4.75 | 15.00 | 71.25 | 1169 | 920 | HA31+NMRV050 | TS63A6 | - | - |
| 16.0 | 1.9 | 337 | 4.75 | 15.00 | 71.25 | 624 | 670 | HA31+NMRV040 | TS63A6 | - | - |
| 15.0 | 6.1 | 353 | 3.87 | 20.00 | 77.33 | 2153 | 1236 | HW030+NMRV-P063 | TS63A6 | - | - |
| 14.0 | 3.0 | 403 | 7.88 | 10.00 | 78.75 | 1213 | 952 | HA31+NMRV050 | TS63A6 | - | - |
| 14.0 | 1.6 | 392 | 7.88 | 10.00 | 78.75 | 628 | 693 | HA31+NMRV040 | TS63A6 | - | - |
| 14.0 | 6.1 | 389 | 5.45 | 15.00 | 81.82 | 2367 | 1260 | HW030+NMRV-P063 | TS63A6 | - | - |
| 14.0 | 6.1 | 389 | 5.45 | 15.00 | 81.82 | 2367 | 1260 | HW030+NMRV-P063 | TS63A6 | - | - |
| 13.0 | 5.7 | 359 | 2.94 | 30.00 | 88.33 | 2051 | 1292 | HW030+NMRV-P063 | TS63A6 | - | - |
| 13.0 | 5.7 | 359 | 2.94 | 30.00 | 88.33 | 2051 | 1292 | HW030+NMRV-P063 | TS63A6 | - | - |
| 13.0 | 3.1 | 353 | 2.94 | 30.00 | 88.33 | 1107 | 989 | HA31+NMRV050 | TS63A6 | - | - |
| 13.0 | 1.7 | 347 | 2.94 | 30.00 | 88.33 | 585 | 720 | HA31+NMRV040 | TS63A6 | - | - |
| 12.0 | 2.7 | 447 | 6.30 | 15.00 | 94.50 | 1195 | 1011 | HA31+NMRV050 | TS63A6 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.12 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 12.0 | 1.4 | 447 | 6.30 | 15.00 | 94.50 | 637 | 737 | HA31+NMRV040 | TS63A6 | - | - |
| 12.0 | 5.3 | 429 | 4.75 | 20.00 | 95.00 | 2271 | 1324 | HW030+NMRV-P063 | TS63A6 | - | - |
| 11.0 | 2.3 | 456 | 5.10 | 20.00 | 102.00 | 1048 | 1037 | HA31+NMRV050 | TS63A6 | - | - |
| 11.0 | 1.3 | 456 | 5.10 | 20.00 | 102.00 | 570 | 756 | HA31+NMRV040 | TS63A6 | - | - |
| 10.0 | 7.9 | 504 | 5.45 | 20.00 | 109.09 | 3973 | 1636 | HW030+NMRV-P075 | TS63A6 | - | - |
| 10.0 | 4.8 | 490 | 5.45 | 20.00 | 109.09 | 2337 | 1386 | HW030+NMRV-P063 | TS56B4 | - | - |
| 10.0 | 4.8 | 490 | 5.45 | 20.00 | 109.09 | 2337 | 1386 | HW030+NMRV-P063 | TS63A6 | - | - |
| 10.0 | 2.2 | 487 | 5.45 | 20.00 | 109.09 | 1057 | 1061 | HA31+NMRV050 | TS63A6 | - | - |
| 10.0 | 1.2 | 487 | 5.45 | 20.00 | 109.09 | 573 | 773 | HA31+NMRV040 | TS63A6 | - | - |
| 10.0 | 7.5 | 485 | 3.87 | 30.00 | 116.00 | 3626 | 1659 | HW030+NMRV-P075 | TS63A6 | - | - |
| 10.0 | 4.2 | 557 | 7.88 | 15.00 | 118.13 | 2330 | 1410 | HW030+NMRV-P063 | TS56B4 | - | - |
| 10.0 | 4.2 | 557 | 7.88 | 15.00 | 118.13 | 2330 | 1410 | HW030+NMRV-P063 | TS63A6 | - | - |
| 10.0 | 2.1 | 558 | 7.88 | 15.00 | 118.13 | 1195 | 1088 | HA31+NMRV050 | TS63A6 | - | - |
| 10.0 | 1.1 | 558 | 7.88 | 15.00 | 118.13 | 637 | 785 | HA31+NMRV040 | TS63A6 | - | - |
| 9.0 | 1.8 | 536 | 5.10 | 25.00 | 127.50 | 961 | 1088 | HA31+NMRV050 | TS63A6 | - | - |
| 8.0 | 5.9 | 604 | 5.45 | 25.00 | 136.36 | 3551 | 1659 | HW030+NMRV-P075 | TS63A6 | - | - |
| 8.0 | 3.6 | 586 | 5.45 | 25.00 | 136.36 | 2123 | 1410 | HW030+NMRV-P063 | TS56B4 | - | - |
| 8.0 | 3.6 | 586 | 5.45 | 25.00 | 136.36 | 2123 | 1410 | HW030+NMRV-P063 | TS63A6 | - | - |
| 8.0 | 6.6 | 589 | 4.75 | 30.00 | 142.50 | 3886 | 1659 | HW030+NMRV-P075 | TS63A6 | - | - |
| 8.0 | 4.3 | 561 | 4.75 | 30.00 | 142.50 | 2405 | 1410 | HW030+NMRV-P063 | TS63A6 | - | - |
| 8.0 | 2.3 | 553 | 4.75 | 30.00 | 142.50 | 1246 | 1088 | HA31+NMRV050 | TS63A6 | - | - |
| 8.0 | 1.2 | 544 | 4.75 | 30.00 | 142.50 | 633 | 785 | HA31+NMRV040 | TS63A6 | - | - |
| 7.0 | 6.0 | 596 | 3.87 | 40.00 | 154.67 | 3554 | 1659 | HW030+NMRV-P075 | TS63A6 | - | - |
| 7.0 | 1.9 | 547 | 3.87 | 40.00 | 154.67 | 1044 | 1088 | HA31+NMRV050 | TS63A6 | - | - |
| 7.0 | 1.0 | 537 | 3.87 | 40.00 | 154.67 | 556 | 785 | HA31+NMRV040 | TS63A6 | - | - |
| 7.0 | 3.5 | 699 | 7.88 | 20.00 | 157.50 | 2479 | 1410 | HW030+NMRV-P063 | TS56B4 | - | - |
| 7.0 | 3.5 | 699 | 7.88 | 20.00 | 157.50 | 2479 | 1410 | HW030+NMRV-P063 | TS63A6 | - | - |
| 7.0 | 6.1 | 672 | 5.45 | 30.00 | 163.64 | 4069 | 1659 | HW030+NMRV-P075 | TS63A6 | - | - |
| 7.0 | 3.9 | 640 | 5.45 | 30.00 | 163.64 | 2519 | 1410 | HW030+NMRV-P063 | TS56B4 | - | - |
| 7.0 | 3.9 | 640 | 5.45 | 30.00 | 163.64 | 2519 | 1410 | HW030+NMRV-P063 | TS63A6 | - | - |
| 7.0 | 2.0 | 636 | 5.45 | 30.00 | 163.64 | 1275 | 1088 | HA31+NMRV050 | TS63A6 | - | - |
| 7.0 | 1.0 | 625 | 5.45 | 30.00 | 163.64 | 643 | 785 | HA31+NMRV040 | TS63A6 | - | - |
| 6.0 | 4.8 | 607 | 2.94 | 60.00 | 176.67 | 2900 | 1659 | HW030+NMRV-P075 | TS63A6 | - | - |
| 6.0 | 3.0 | 573 | 2.94 | 60.00 | 176.67 | 1716 | 1410 | HW030+NMRV-P063 | TS56B4 | - | - |
| 6.0 | 3.0 | 573 | 2.94 | 60.00 | 176.67 | 1716 | 1410 | HW030+NMRV-P063 | TS63A6 | - | - |
| 6.0 | 6.4 | 673 | 3.11 | 60.00 | 186.32 | 4301 | 1839 | HW040+NMRV-P090 | TS63A6 | - | - |
| 6.0 | 1.7 | 734 | 6.30 | 30.00 | 189.00 | 1283 | 1088 | HA31+NMRV050 | TS63A6 | - | - |
| 6.0 | 4.2 | 861 | 7.88 | 25.00 | 196.88 | 3608 | 1659 | HW030+NMRV-P075 | TS56B4 | - | - |

0.12 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 6.0 | 4.2 | 861 | 7.88 | 25.00 | 196.88 | 3608 | 1659 | HW030+NMRV-P075 | TS63A6 | - | - |
| 6.0 | 2.7 | 836 | 7.88 | 25.00 | 196.88 | 2224 | 1410 | HW030+NMRV-P063 | TS56B4 | - | - |
| 6.0 | 2.7 | 836 | 7.88 | 25.00 | 196.88 | 2224 | 1410 | HW030+NMRV-P063 | TS63A6 | - | - |
| 6.0 | 1.5 | 713 | 5.10 | 40.00 | 204.00 | 1084 | 1088 | HA31+NMRV050 | TS63A6 | - | - |
| 5.0 | 4.6 | 825 | 5.45 | 40.00 | 218.18 | 3835 | 1659 | HW030+NMRV-P075 | TS63A6 | - | - |
| 5.0 | 3.0 | 781 | 5.45 | 40.00 | 218.18 | 2321 | 1410 | HW030+NMRV-P063 | TS56B4 | - | - |
| 5.0 | 3.0 | 781 | 5.45 | 40.00 | 218.18 | 2321 | 1410 | HW030+NMRV-P063 | TS63A6 | - | - |
| 5.0 | 7.2 | 874 | 5.50 | 40.00 | 220.00 | 6265 | 1839 | HW040+NMRV-P090 | TS63A6 | - | - |
| 4.8 | 4.2 | 957 | 7.88 | 30.00 | 236.25 | 4012 | 1659 | HW030+NMRV-P075 | TS56B4 | - | - |
| 4.8 | 4.2 | 957 | 7.88 | 30.00 | 236.25 | 4012 | 1659 | HW030+NMRV-P075 | TS63A6 | - | - |
| 4.8 | 3.1 | 911 | 7.88 | 30.00 | 236.25 | 2846 | 1410 | HW030+NMRV-P063 | TS56B4 | - | - |
| 4.8 | 3.1 | 911 | 7.88 | 30.00 | 236.25 | 2846 | 1410 | HW030+NMRV-P063 | TS63A6 | - | - |
| 4.8 | 1.4 | 918 | 7.88 | 30.00 | 236.25 | 1283 | 1088 | HA31+NMRV050 | TS63A6 | - | - |
| 4.5 | 5.2 | 885 | 4.20 | 60.00 | 252.00 | 4593 | 1839 | HW040+NMRV-P090 | TS63A6 | - | - |
| 4.5 | 1.2 | 881 | 6.30 | 40.00 | 252.00 | 1097 | 1088 | HA31+NMRV050 | TS63A6 | - | - |
| 4.2 | 3.7 | 941 | 5.45 | 50.00 | 272.73 | 3446 | 1659 | HW030+NMRV-P075 | TS63A6 | - | - |
| 4.2 | 2.3 | 908 | 5.45 | 50.00 | 272.73 | 2107 | 1410 | HW030+NMRV-P063 | TS56B4 | - | - |
| 4.2 | 2.3 | 908 | 5.45 | 50.00 | 272.73 | 2107 | 1410 | HW030+NMRV-P063 | TS63A6 | - | - |
| 4.2 | 1.2 | 883 | 5.45 | 50.00 | 272.73 | 1056 | 1088 | HA31+NMRV050 | TS63A6 | - | - |
| 4.1 | 5.4 | 1019 | 5.50 | 50.00 | 275.00 | 5498 | 1839 | HW040+NMRV-P090 | TS63A6 | - | - |
| 4.0 | 1.1 | 849 | 4.75 | 60.00 | 285.00 | 908 | 1088 | HA31+NMRV050 | TS63A6 | - | - |
| 3.7 | 5.0 | 1123 | 6.09 | 50.00 | 304.55 | 5576 | 1839 | HW040+NMRV-P090 | TS63A6 | - | - |
| 3.6 | 3.4 | 1174 | 7.88 | 40.00 | 315.00 | 4007 | 1659 | HW030+NMRV-P075 | TS56B4 | - | - |
| 3.6 | 3.4 | 1174 | 7.88 | 40.00 | 315.00 | 4007 | 1659 | HW030+NMRV-P075 | TS63A6 | - | - |
| 3.6 | 2.2 | 1107 | 7.88 | 40.00 | 315.00 | 2416 | 1410 | HW030+NMRV-P063 | TS56B4 | - | - |
| 3.6 | 2.2 | 1107 | 7.88 | 40.00 | 315.00 | 2416 | 1410 | HW030+NMRV-P063 | TS63A6 | - | - |
| 3.6 | 1.0 | 1019 | 6.30 | 50.00 | 315.00 | 1062 | 1088 | HA31+NMRV050 | TS63A6 | - | - |
| 3.5 | 7.4 | 1223 | 5.50 | 60.00 | 330.00 | 9094 | 2320 | HW040+NMRV-P110 | TS63A6 | - | - |
| 3.5 | 4.2 | 1138 | 5.50 | 60.00 | 330.00 | 4789 | 1839 | HW040+NMRV-P090 | TS63A6 | - | - |
| 3.0 | 5.6 | 1504 | 7.67 | 50.00 | 383.33 | 8388 | 2320 | HW040+NMRV-P110 | TS63A6 | - | - |
| 3.0 | 4.1 | 1398 | 7.67 | 50.00 | 383.33 | 5728 | 1839 | HW040+NMRV-P090 | TS63A6 | - | - |
| 2.9 | 2.7 | 1333 | 7.88 | 50.00 | 393.75 | 3582 | 1659 | HW030+NMRV-P075 | TS56B4 | - | - |
| 2.9 | 2.7 | 1333 | 7.88 | 50.00 | 393.75 | 3582 | 1659 | HW030+NMRV-P075 | TS63A6 | - | - |
| 2.9 | 1.7 | 1289 | 7.88 | 50.00 | 393.75 | 2187 | 1410 | HW030+NMRV-P063 | TS56B4 | - | - |
| 2.9 | 1.7 | 1289 | 7.88 | 50.00 | 393.75 | 2187 | 1410 | HW030+NMRV-P063 | TS63A6 | - | - |
| 2.6 | 1.6 | 1505 | 10.83 | 40.00 | 433.33 | 2474 | 1410 | HW030+NMRV-P063 | TS56B4 | - | - |
| 2.6 | 1.6 | 1505 | 10.83 | 40.00 | 433.33 | 2474 | 1410 | HW030+NMRV-P063 | TS63A6 | - | - |
| 2.6 | 3.7 | 1587 | 8.75 | 50.00 | 437.50 | 5800 | 1839 | HW040+NMRV-P090 | TS63A6 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.12 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 2.6 | 5.1 | 1492 | 5.50 | 80.00 | 440.00 | 7610 | 2320 | HW040+NMRV-P110 | TS63A6 | - | - |
| 2.5 | 5.6 | 1678 | 7.67 | 60.00 | 460.00 | 9379 | 2320 | HW040+NMRV-P110 | TS63A6 | - | - |
| 2.5 | 3.2 | 1559 | 7.67 | 60.00 | 460.00 | 4973 | 1839 | HW040+NMRV-P090 | TS63A6 | - | - |
| 2.4 | 2.2 | 1507 | 7.88 | 60.00 | 472.50 | 3382 | 1659 | HW030+NMRV-P075 | TS56B4 | - | - |
| 2.4 | 2.2 | 1507 | 7.88 | 60.00 | 472.50 | 3382 | 1659 | HW030+NMRV-P075 | TS63A6 | - | - |
| 2.4 | 1.4 | 1416 | 7.88 | 60.00 | 472.50 | 1974 | 1410 | HW030+NMRV-P063 | TS56B4 | - | - |
| 2.4 | 1.4 | 1416 | 7.88 | 60.00 | 472.50 | 1974 | 1410 | HW030+NMRV-P063 | TS63A6 | - | - |
| 2.2 | 4.3 | 1905 | 8.75 | 60.00 | 525.00 | 8116 | 2320 | HW040+NMRV-P110 | TS63A6 | - | - |
| 2.2 | 2.8 | 1769 | 8.75 | 60.00 | 525.00 | 5031 | 1839 | HW040+NMRV-P090 | TS63A6 | - | - |
| 2.1 | 1.8 | 1811 | 10.83 | 50.00 | 541.67 | 3228 | 1659 | HW030+NMRV-P075 | TS56B4 | - | - |
| 2.1 | 1.8 | 1811 | 10.83 | 50.00 | 541.67 | 3228 | 1659 | HW030+NMRV-P075 | TS63A6 | - | - |
| 2.1 | 1.3 | 1755 | 10.83 | 50.00 | 541.67 | 2237 | 1410 | HW030+NMRV-P063 | TS56B4 | - | - |
| 2.1 | 1.3 | 1755 | 10.83 | 50.00 | 541.67 | 2237 | 1410 | HW030+NMRV-P063 | TS63A6 | - | - |
| 1.9 | 3.8 | 2049 | 7.67 | 80.00 | 613.33 | 7885 | 2320 | HW040+NMRV-P110 | TS63A6 | - | - |
| 1.9 | 2.1 | 1891 | 7.67 | 80.00 | 613.33 | 3980 | 1839 | HW040+NMRV-P090 | TS63A6 | - | - |
| 1.8 | 1.7 | 2047 | 10.83 | 60.00 | 650.00 | 3452 | 1659 | HW030+NMRV-P075 | TS56B4 | - | - |
| 1.8 | 1.7 | 2047 | 10.83 | 60.00 | 650.00 | 3452 | 1659 | HW030+NMRV-P075 | TS63A6 | - | - |
| 1.8 | 1.0 | 1921 | 10.83 | 60.00 | 650.00 | 2013 | 1410 | HW030+NMRV-P063 | TS56B4 | - | - |
| 1.8 | 1.0 | 1921 | 10.83 | 60.00 | 650.00 | 2013 | 1410 | HW030+NMRV-P063 | TS63A6 | - | - |
| 1.6 | 3.4 | 2328 | 8.75 | 80.00 | 700.00 | 7971 | 2320 | HW040+NMRV-P110 | TS63A6 | - | - |
| 1.6 | 1.9 | 2147 | 8.75 | 80.00 | 700.00 | 4035 | 1839 | HW040+NMRV-P090 | TS63A6 | - | - |
| 1.5 | 2.9 | 2300 | 7.67 | 100.00 | 766.67 | 6608 | 2320 | HW040+NMRV-P110 | TS63A6 | - | - |
| 1.5 | 1.5 | 2102 | 7.67 | 100.00 | 766.67 | 3201 | 1839 | HW040+NMRV-P090 | TS63A6 | - | - |
| 1.4 | 1.0 | 1952 | 7.88 | 100.00 | 787.50 | 2021 | 1659 | HW030+NMRV-P075 | TS56B4 | - | - |
| 1.4 | 1.0 | 1952 | 7.88 | 100.00 | 787.50 | 2021 | 1659 | HW030+NMRV-P075 | TS63A6 | - | - |
| 1.3 | 1.1 | 2415 | 10.83 | 80.00 | 866.67 | 2587 | 1659 | HW030+NMRV-P075 | TS56B4 | - | - |
| 1.3 | 1.1 | 2415 | 10.83 | 80.00 | 866.67 | 2587 | 1659 | HW030+NMRV-P075 | TS63A6 | - | - |
| 1.3 | 2.6 | 2609 | 8.75 | 100.00 | 875.00 | 6660 | 2320 | HW040+NMRV-P110 | TS63A6 | - | - |
| 1.3 | 1.4 | 2382 | 8.75 | 100.00 | 875.00 | 3227 | 1839 | HW040+NMRV-P090 | TS63A6 | - | - |

0.16 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|--------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 52.0 | 5.6 | 156 | 2.94 | 7.50 | 22.08 | 877 | 623 | HA31+NMRV050 | TH63B6 | - | - |
| 79.0 | 7.9 | 104 | 2.94 | 7.50 | 22.08 | 820 | 540 | HA31+NMRV050 | TH63A4 | - | - |
| 52.0 | 3.6 | 154 | 2.94 | 7.50 | 22.08 | 549 | 454 | HA31+NMRV040 | TH63B6 | - | - |
| 79.0 | 4.6 | 103 | 2.94 | 7.50 | 22.08 | 475 | 393 | HA31+NMRV040 | TH63A4 | - | - |
| 48.0 | 3.8 | 170 | 4.75 | 5.00 | 23.75 | 647 | 638 | HA31+NMRV050 | TH63B6 | - | - |

0.16 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 74.0 | 5.4 | 112 | 4.75 | 5.00 | 23.75 | 603 | 553 | HA31+NMRV050 | TH63A4 | - | - |
| 48.0 | 3.4 | 170 | 4.75 | 5.00 | 23.75 | 583 | 465 | HA31+NMRV040 | TH63B6 | - | - |
| 74.0 | 4.7 | 112 | 4.75 | 5.00 | 23.75 | 522 | 403 | HA31+NMRV040 | TH63A4 | - | - |
| 45.0 | 3.7 | 183 | 5.10 | 5.00 | 25.50 | 675 | 653 | HA31+NMRV050 | TH63B6 | - | - |
| 69.0 | 5.2 | 120 | 5.10 | 5.00 | 25.50 | 628 | 566 | HA31+NMRV050 | TH63A4 | - | - |
| 45.0 | 3.2 | 183 | 5.10 | 5.00 | 25.50 | 591 | 476 | HA31+NMRV040 | TH63B6 | - | - |
| 69.0 | 4.5 | 120 | 5.10 | 5.00 | 25.50 | 534 | 413 | HA31+NMRV040 | TH63A4 | - | - |
| 39.0 | 5.3 | 203 | 2.94 | 10.00 | 29.44 | 1080 | 685 | HA31+NMRV050 | TH63B6 | - | - |
| 59.0 | 7.1 | 135 | 2.94 | 10.00 | 29.44 | 956 | 594 | HA31+NMRV050 | TH63A4 | - | - |
| 39.0 | 2.8 | 199 | 2.94 | 10.00 | 29.44 | 562 | 499 | HA31+NMRV040 | TH63B6 | - | - |
| 59.0 | 3.7 | 134 | 2.94 | 10.00 | 29.44 | 499 | 433 | HA31+NMRV040 | TH63A4 | - | - |
| 36.0 | 3.0 | 226 | 6.30 | 5.00 | 31.50 | 673 | 701 | HA31+NMRV050 | TH63B6 | - | - |
| 56.0 | 4.2 | 147 | 6.30 | 5.00 | 31.50 | 623 | 608 | HA31+NMRV050 | TH63A4 | - | - |
| 36.0 | 2.7 | 226 | 6.30 | 5.00 | 31.50 | 602 | 511 | HA31+NMRV040 | TH63B6 | - | - |
| 56.0 | 3.8 | 147 | 6.30 | 5.00 | 31.50 | 565 | 443 | HA31+NMRV040 | TH63A4 | - | - |
| 32.0 | 3.8 | 249 | 4.75 | 7.50 | 35.63 | 948 | 730 | HA31+NMRV050 | TH63B6 | - | - |
| 49.0 | 5.4 | 164 | 4.75 | 7.50 | 35.63 | 883 | 633 | HA31+NMRV050 | TH63A4 | - | - |
| 32.0 | 2.5 | 246 | 4.75 | 7.50 | 35.63 | 618 | 532 | HA31+NMRV040 | TH63B6 | - | - |
| 49.0 | 3.4 | 162 | 4.75 | 7.50 | 35.63 | 558 | 461 | HA31+NMRV040 | TH63A4 | - | - |
| 29.0 | 7.4 | 265 | 3.87 | 10.00 | 38.67 | 1951 | 981 | HWO30+NMRV-P063 | TH63B6 | - | - |
| 28.0 | 3.5 | 286 | 5.45 | 7.50 | 40.91 | 987 | 765 | HA31+NMRV050 | TH63B6 | - | - |
| 43.0 | 4.9 | 188 | 5.45 | 7.50 | 40.91 | 918 | 663 | HA31+NMRV050 | TH63A4 | - | - |
| 28.0 | 2.2 | 282 | 5.45 | 7.50 | 40.91 | 633 | 557 | HA31+NMRV040 | TH63B6 | - | - |
| 43.0 | 3.1 | 185 | 5.45 | 7.50 | 40.91 | 580 | 483 | HA31+NMRV040 | TH63A4 | - | - |
| 26.0 | 6.7 | 287 | 2.94 | 15.00 | 44.17 | 1928 | 1026 | HWO30+NMRV-P063 | TH63B6 | - | - |
| 26.0 | 3.8 | 284 | 2.94 | 15.00 | 44.17 | 1073 | 785 | HA31+NMRV050 | TH63B6 | - | - |
| 40.0 | 5.0 | 190 | 2.94 | 15.00 | 44.17 | 956 | 680 | HA31+NMRV050 | TH63A4 | - | - |
| 26.0 | 2.0 | 282 | 2.94 | 15.00 | 44.17 | 577 | 572 | HA31+NMRV040 | TH63B6 | - | - |
| 40.0 | 2.7 | 188 | 2.94 | 15.00 | 44.17 | 517 | 496 | HA31+NMRV040 | TH63A4 | - | - |
| 24.0 | 6.5 | 323 | 4.75 | 10.00 | 47.50 | 2091 | 1051 | HWO30+NMRV-P063 | TH63B6 | - | - |
| 24.0 | 3.7 | 324 | 4.75 | 10.00 | 47.50 | 1184 | 804 | HA31+NMRV050 | TH63B6 | - | - |
| 37.0 | 5.1 | 213 | 4.75 | 10.00 | 47.50 | 1093 | 697 | HA31+NMRV050 | TH63A4 | - | - |
| 24.0 | 1.9 | 316 | 4.75 | 10.00 | 47.50 | 614 | 586 | HA31+NMRV040 | TH63B6 | - | - |
| 37.0 | 2.7 | 209 | 4.75 | 10.00 | 47.50 | 569 | 508 | HA31+NMRV040 | TH63A4 | - | - |
| 21.0 | 3.2 | 372 | 5.45 | 10.00 | 54.55 | 1206 | 842 | HA31+NMRV050 | TH63B6 | - | - |
| 32.0 | 4.6 | 244 | 5.45 | 10.00 | 54.55 | 1127 | 730 | HA31+NMRV050 | TH63A4 | - | - |
| 21.0 | 1.7 | 362 | 5.45 | 10.00 | 54.55 | 625 | 613 | HA31+NMRV040 | TH63B6 | - | - |
| 32.0 | 2.5 | 238 | 5.45 | 10.00 | 54.55 | 586 | 532 | HA31+NMRV040 | TH63A4 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.16 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 20.0 | 5.7 | 373 | 3.87 | 15.00 | 58.00 | 210 | 1123 | HW030+NMRV-P063 | TH63B6 | - | - |
| 30.0 | 7.4 | 248 | 3.87 | 15.00 | 58.00 | 1829 | 974 | HW030+NMRV-P063 | TH63A4 | - | - |
| 19.0 | 2.6 | 360 | 2.94 | 20.00 | 58.89 | 952 | 864 | HA31+NMRV050 | TH63B6 | - | - |
| 30.0 | 3.5 | 244 | 2.94 | 20.00 | 58.89 | 850 | 749 | HA31+NMRV050 | TH63A4 | - | - |
| 19.0 | 1.5 | 358 | 2.94 | 20.00 | 58.89 | 531 | 629 | HA31+NMRV040 | TH63B6 | - | - |
| 30.0 | 2.0 | 241 | 2.94 | 20.00 | 58.89 | 486 | 545 | HA31+NMRV040 | TH63A4 | - | - |
| 18.0 | 2.8 | 430 | 6.30 | 10.00 | 63.00 | 1213 | 883 | HA31+NMRV050 | TH63B6 | - | - |
| 28.0 | 4.1 | 281 | 6.30 | 10.00 | 63.00 | 1157 | 766 | HA31+NMRV050 | TH63A4 | - | - |
| 18.0 | 1.5 | 419 | 6.30 | 10.00 | 63.00 | 628 | 644 | HA31+NMRV040 | TH63B6 | - | - |
| 28.0 | 2.2 | 274 | 6.30 | 10.00 | 63.00 | 601 | 558 | HA31+NMRV040 | TH63A4 | - | - |
| 16.0 | 7.7 | 466 | 4.75 | 15.00 | 71.25 | 3595 | 1420 | HW030+NMRV-P075 | TH63B6 | - | - |
| 16.0 | 5.0 | 454 | 4.75 | 15.00 | 71.25 | 2261 | 1203 | HW030+NMRV-P063 | TH63B6 | - | - |
| 25.0 | 6.5 | 301 | 4.75 | 15.00 | 71.25 | 1960 | 1043 | HW030+NMRV-P063 | TH63A4 | - | - |
| 16.0 | 2.6 | 449 | 4.75 | 15.00 | 71.25 | 1169 | 920 | HA31+NMRV050 | TH63B6 | - | - |
| 25.0 | 3.6 | 297 | 4.75 | 15.00 | 71.25 | 1086 | 798 | HA31+NMRV050 | TH63A4 | - | - |
| 16.0 | 1.4 | 449 | 4.75 | 15.00 | 71.25 | 624 | 670 | HA31+NMRV040 | TH63B6 | - | - |
| 25.0 | 2.0 | 296 | 4.75 | 15.00 | 71.25 | 583 | 581 | HA31+NMRV040 | TH63A4 | - | - |
| 15.0 | 7.5 | 484 | 3.87 | 20.00 | 77.33 | 3623 | 1459 | HW030+NMRV-P075 | TH63B6 | - | - |
| 15.0 | 4.6 | 471 | 3.87 | 20.00 | 77.33 | 2153 | 1236 | HW030+NMRV-P063 | TH63B6 | - | - |
| 23.0 | 5.7 | 316 | 3.87 | 20.00 | 77.33 | 1816 | 1072 | HW030+NMRV-P063 | TH63A4 | - | - |
| 14.0 | 2.3 | 537 | 7.88 | 10.00 | 78.75 | 1213 | 952 | HA31+NMRV050 | TH63B6 | - | - |
| 22.0 | 3.2 | 350 | 7.88 | 10.00 | 78.75 | 1128 | 825 | HA31+NMRV050 | TH63A4 | - | - |
| 14.0 | 1.2 | 523 | 7.88 | 10.00 | 78.75 | 628 | 693 | HA31+NMRV040 | TH63B6 | - | - |
| 22.0 | 1.8 | 341 | 7.88 | 10.00 | 78.75 | 621 | 601 | HA31+NMRV040 | TH63A4 | - | - |
| 14.0 | 6.9 | 533 | 5.45 | 15.00 | 81.82 | 3658 | 1487 | HW030+NMRV-P075 | TH63B6 | - | - |
| 14.0 | 4.6 | 519 | 5.45 | 15.00 | 81.82 | 2367 | 1260 | HW030+NMRV-P063 | TH63B6 | - | - |
| 21.0 | 6.0 | 344 | 5.45 | 15.00 | 81.82 | 2053 | 1092 | HW030+NMRV-P063 | TH63A4 | - | - |
| 13.0 | 6.6 | 501 | 2.94 | 30.00 | 88.33 | 3313 | 1525 | HW030+NMRV-P075 | TH63B6 | - | - |
| 13.0 | 4.3 | 478 | 2.94 | 30.00 | 88.33 | 2051 | 1292 | HW030+NMRV-P063 | TH63B6 | - | - |
| 20.0 | 5.5 | 326 | 2.94 | 30.00 | 88.33 | 1778 | 1120 | HW030+NMRV-P063 | TH63A4 | - | - |
| 13.0 | 2.4 | 471 | 2.94 | 30.00 | 88.33 | 1107 | 989 | HA31+NMRV050 | TH63B6 | - | - |
| 20.0 | 3.0 | 321 | 2.94 | 30.00 | 88.33 | 960 | 857 | HA31+NMRV050 | TH63A4 | - | - |
| 13.0 | 1.3 | 463 | 2.94 | 30.00 | 88.33 | 585 | 720 | HA31+NMRV040 | TH63B6 | - | - |
| 20.0 | 1.7 | 316 | 2.94 | 30.00 | 88.33 | 530 | 624 | HA31+NMRV040 | TH63A4 | - | - |
| 12.0 | 2.0 | 595 | 6.30 | 15.00 | 94.50 | 1195 | 1011 | HA31+NMRV050 | TH63B6 | - | - |
| 19.0 | 2.9 | 389 | 6.30 | 15.00 | 94.50 | 1144 | 877 | HA31+NMRV050 | TH63A4 | - | - |
| 12.0 | 1.1 | 595 | 6.30 | 15.00 | 94.50 | 637 | 737 | HA31+NMRV040 | TH63B6 | - | - |
| 19.0 | 1.6 | 389 | 6.30 | 15.00 | 94.50 | 612 | 639 | HA31+NMRV040 | TH63A4 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.16 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 12.0 | 6.5 | 589 | 4.75 | 20.00 | 95.00 | 3857 | 1563 | HW030+NMRV-P075 | TH63B6 | - | - |
| 12.0 | 4.0 | 572 | 4.75 | 20.00 | 95.00 | 2271 | 1324 | HW030+NMRV-P063 | TH63B6 | - | - |
| 18.0 | 5.2 | 382 | 4.75 | 20.00 | 95.00 | 1997 | 1148 | HW030+NMRV-P063 | TH63A4 | - | - |
| 11.0 | 1.7 | 607 | 5.10 | 20.00 | 102.00 | 1048 | 1037 | HA31+NMRV050 | TH63B6 | - | - |
| 17.0 | 2.4 | 403 | 5.10 | 20.00 | 102.00 | 978 | 899 | HA31+NMRV050 | TH63A4 | - | - |
| 17.0 | 1.3 | 401 | 5.10 | 20.00 | 102.00 | 542 | 655 | HA31+NMRV040 | TH63A4 | - | - |
| 10.0 | 5.9 | 672 | 5.45 | 20.00 | 109.09 | 3973 | 1636 | HW030+NMRV-P075 | TH63B6 | - | - |
| 16.0 | 7.9 | 447 | 5.45 | 20.00 | 109.09 | 3525 | 1419 | HW030+NMRV-P075 | TH63A4 | - | - |
| 10.0 | 3.6 | 654 | 5.45 | 20.00 | 109.09 | 2337 | 1386 | HW030+NMRV-P063 | TH63B6 | - | - |
| 16.0 | 4.8 | 435 | 5.45 | 20.00 | 109.09 | 2099 | 1202 | HW030+NMRV-P063 | TH63A4 | - | - |
| 10.0 | 1.6 | 650 | 5.45 | 20.00 | 109.09 | 1057 | 1061 | HA31+NMRV050 | TH63B6 | - | - |
| 16.0 | 2.3 | 429 | 5.45 | 20.00 | 109.09 | 991 | 919 | HA31+NMRV050 | TH63A4 | - | - |
| 16.0 | 1.3 | 428 | 5.45 | 20.00 | 109.09 | 547 | 670 | HA31+NMRV040 | TH63A4 | - | - |
| 10.0 | 5.6 | 646 | 3.87 | 30.00 | 116.00 | 3626 | 1659 | HW030+NMRV-P075 | TH63B6 | - | - |
| 15.0 | 7.2 | 435 | 3.87 | 30.00 | 116.00 | 3144 | 1448 | HW030+NMRV-P075 | TH63A4 | - | - |
| 10.0 | 3.1 | 743 | 7.88 | 15.00 | 118.13 | 2330 | 1410 | HW030+NMRV-P063 | TH63B6 | - | - |
| 15.0 | 4.7 | 489 | 7.88 | 15.00 | 118.13 | 2320 | 1234 | HW030+NMRV-P063 | TH63A4 | - | - |
| 10.0 | 1.6 | 744 | 7.88 | 15.00 | 118.13 | 1195 | 1088 | HA31+NMRV050 | TH63B6 | - | - |
| 15.0 | 2.4 | 485 | 7.88 | 15.00 | 118.13 | 1180 | 944 | HA31+NMRV050 | TH63A4 | - | - |
| 15.0 | 1.3 | 485 | 7.88 | 15.00 | 118.13 | 630 | 688 | HA31+NMRV040 | TH63A4 | - | - |
| 9.0 | 1.3 | 715 | 5.10 | 25.00 | 127.50 | 961 | 1088 | HA31+NMRV050 | TH63B6 | - | - |
| 14.0 | 1.9 | 475 | 5.10 | 25.00 | 127.50 | 898 | 969 | HA31+NMRV050 | TH63A4 | - | - |
| 14.0 | 1.0 | 475 | 5.10 | 25.00 | 127.50 | 498 | 706 | HA31+NMRV040 | TH63A4 | - | - |
| 8.0 | 4.4 | 805 | 5.45 | 25.00 | 136.36 | 3551 | 1659 | HW030+NMRV-P075 | TH63B6 | - | - |
| 13.0 | 5.9 | 536 | 5.45 | 25.00 | 136.36 | 3183 | 1528 | HW030+NMRV-P075 | TH63A4 | - | - |
| 8.0 | 2.7 | 782 | 5.45 | 25.00 | 136.36 | 2123 | 1410 | HW030+NMRV-P063 | TH63B6 | - | - |
| 13.0 | 3.7 | 521 | 5.45 | 25.00 | 136.36 | 1913 | 1295 | HW030+NMRV-P063 | TH63A4 | - | - |
| 8.0 | 7.0 | 849 | 5.50 | 25.00 | 137.50 | 5925 | 1839 | HW040+NMRV-P090 | TH63B6 | - | - |
| 8.0 | 5.0 | 785 | 4.75 | 30.00 | 142.50 | 3886 | 1659 | HW030+NMRV-P075 | TH63B6 | - | - |
| 12.0 | 6.4 | 525 | 4.75 | 30.00 | 142.50 | 3369 | 1551 | HW030+NMRV-P075 | TH63A4 | - | - |
| 8.0 | 3.2 | 748 | 4.75 | 30.00 | 142.50 | 2405 | 1410 | HW030+NMRV-P063 | TH63B6 | - | - |
| 12.0 | 4.2 | 501 | 4.75 | 30.00 | 142.50 | 2085 | 1314 | HW030+NMRV-P063 | TH63A4 | - | - |
| 8.0 | 1.7 | 738 | 4.75 | 30.00 | 142.50 | 1246 | 1088 | HA31+NMRV050 | TH63B6 | - | - |
| 12.0 | 2.3 | 493 | 4.75 | 30.00 | 142.50 | 1124 | 1005 | HA31+NMRV050 | TH63A4 | - | - |
| 12.0 | 1.2 | 485 | 4.75 | 30.00 | 142.50 | 591 | 732 | HA31+NMRV040 | TH63A4 | - | - |
| 7.0 | 4.5 | 795 | 3.87 | 40.00 | 154.67 | 3554 | 1659 | HW030+NMRV-P075 | TH63B6 | - | - |
| 11.0 | 5.7 | 537 | 3.87 | 40.00 | 154.67 | 3081 | 1594 | HW030+NMRV-P075 | TH63A4 | - | - |
| 7.0 | 1.4 | 730 | 3.87 | 40.00 | 154.67 | 1044 | 1088 | HA31+NMRV050 | TH63B6 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.16 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 11.0 | 1.9 | 498 | 3.87 | 40.00 | 154.67 | 956 | 1033 | HA31+NMRV050 | TH63A4 | - | - |
| 11.0 | 1.1 | 489 | 3.87 | 40.00 | 154.67 | 523 | 753 | HA31+NMRV040 | TH63A4 | - | - |
| 7.0 | 6.1 | 801 | 3.11 | 50.00 | 155.26 | 4874 | 1839 | HW040+NMRV-P090 | TH63B6 | - | - |
| 11.0 | 7.5 | 550 | 3.11 | 50.00 | 155.26 | 4139 | 1766 | HW040+NMRV-P090 | TH63A4 | - | - |
| 7.0 | 2.7 | 932 | 7.88 | 20.00 | 157.50 | 2479 | 1410 | HW030+NMRV-P063 | TH63B6 | - | - |
| 11.0 | 3.7 | 617 | 7.88 | 20.00 | 157.50 | 2308 | 1358 | HW030+NMRV-P063 | TH63A4 | - | - |
| 7.0 | 4.5 | 896 | 5.45 | 30.00 | 163.64 | 4069 | 1659 | HW030+NMRV-P075 | TH63B6 | - | - |
| 11.0 | 5.9 | 597 | 5.45 | 30.00 | 163.64 | 3528 | 1624 | HW030+NMRV-P075 | TH63A4 | - | - |
| 7.0 | 3.0 | 853 | 5.45 | 30.00 | 163.64 | 2519 | 1410 | HW030+NMRV-P063 | TH63B6 | - | - |
| 11.0 | 3.8 | 570 | 5.45 | 30.00 | 163.64 | 2184 | 1376 | HW030+NMRV-P063 | TH63A4 | - | - |
| 7.0 | 1.5 | 847 | 5.45 | 30.00 | 163.64 | 1275 | 1088 | HA31+NMRV050 | TH63B6 | - | - |
| 11.0 | 2.1 | 561 | 5.45 | 30.00 | 163.64 | 1169 | 1053 | HA31+NMRV050 | TH63A4 | - | - |
| 11.0 | 1.1 | 551 | 5.45 | 30.00 | 163.64 | 607 | 767 | HA31+NMRV040 | TH63A4 | - | - |
| 7.0 | 7.3 | 945 | 5.50 | 30.00 | 165.00 | 6871 | 1839 | HW040+NMRV-P090 | TH63B6 | - | - |
| 6.0 | 3.6 | 810 | 2.94 | 60.00 | 176.67 | 2900 | 1659 | HW030+NMRV-P075 | TH63B6 | - | - |
| 10.0 | 4.4 | 561 | 2.94 | 60.00 | 176.67 | 2492 | 1659 | HW030+NMRV-P075 | TH63A4 | - | - |
| 6.0 | 2.2 | 764 | 2.94 | 60.00 | 176.67 | 1716 | 1410 | HW030+NMRV-P063 | TH63B6 | - | - |
| 10.0 | 2.8 | 531 | 2.94 | 60.00 | 176.67 | 1490 | 1410 | HW030+NMRV-P063 | TH63A4 | - | - |
| 6.0 | 4.8 | 897 | 3.11 | 60.00 | 186.32 | 4301 | 1839 | HW040+NMRV-P090 | TH63B6 | - | - |
| 9.0 | 6.0 | 618 | 3.11 | 60.00 | 186.32 | 3700 | 1839 | HW040+NMRV-P090 | TH63A4 | - | - |
| 6.0 | 1.3 | 979 | 6.30 | 30.00 | 189.00 | 1283 | 1088 | HA31+NMRV050 | TH63B6 | - | - |
| 9.0 | 1.9 | 641 | 6.30 | 30.00 | 189.00 | 1210 | 1088 | HA31+NMRV050 | TH63A4 | - | - |
| 6.0 | 3.1 | 1148 | 7.88 | 25.00 | 196.88 | 3608 | 1659 | HW030+NMRV-P075 | TH63B6 | - | - |
| 9.0 | 4.6 | 760 | 7.88 | 25.00 | 196.88 | 3508 | 1659 | HW030+NMRV-P075 | TH63A4 | - | - |
| 6.0 | 2.0 | 1114 | 7.88 | 25.00 | 196.88 | 2224 | 1410 | HW030+NMRV-P063 | TH63B6 | - | - |
| 9.0 | 2.8 | 737 | 7.88 | 25.00 | 196.88 | 2098 | 1410 | HW030+NMRV-P063 | TH63A4 | - | - |
| 6.0 | 1.1 | 951 | 5.10 | 40.00 | 204.00 | 1084 | 1088 | HA31+NMRV050 | TH63B6 | - | - |
| 9.0 | 1.6 | 636 | 5.10 | 40.00 | 204.00 | 1017 | 1088 | HA31+NMRV050 | TH63A4 | - | - |
| 5.0 | 3.5 | 1100 | 5.45 | 40.00 | 218.18 | 3835 | 1659 | HW030+NMRV-P075 | TH63B6 | - | - |
| 8.0 | 4.7 | 735 | 5.45 | 40.00 | 218.18 | 3457 | 1659 | HW030+NMRV-P075 | TH63A4 | - | - |
| 5.0 | 2.2 | 1041 | 5.45 | 40.00 | 218.18 | 2321 | 1410 | HW030+NMRV-P063 | TH63B6 | - | - |
| 8.0 | 3.0 | 701 | 5.45 | 40.00 | 218.18 | 2115 | 1410 | HW030+NMRV-P063 | TH63A4 | - | - |
| 5.0 | 5.4 | 1166 | 5.50 | 40.00 | 220.00 | 6265 | 1839 | HW040+NMRV-P090 | TH63B6 | - | - |
| 8.0 | 7.0 | 778 | 5.50 | 40.00 | 220.00 | 5432 | 1839 | HW040+NMRV-P090 | TH63A4 | - | - |
| 4.8 | 3.1 | 1276 | 7.88 | 30.00 | 236.25 | 4012 | 1659 | HW030+NMRV-P075 | TH63B6 | - | - |
| 7.0 | 4.7 | 845 | 7.88 | 30.00 | 236.25 | 3987 | 1659 | HW030+NMRV-P075 | TH63A4 | - | - |
| 4.8 | 2.3 | 1215 | 7.88 | 30.00 | 236.25 | 2846 | 1410 | HW030+NMRV-P063 | TH63B6 | - | - |
| 7.0 | 3.1 | 805 | 7.88 | 30.00 | 236.25 | 2468 | 1410 | HW030+NMRV-P063 | TH63A4 | - | - |

0.16 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 4.8 | 1.0 | 1223 | 7.88 | 30.00 | 236.25 | 1283 | 1088 | HA31+NMRV050 | TH63B6 | - | - |
| 7.0 | 1.6 | 797 | 7.88 | 30.00 | 236.25 | 1262 | 1088 | HA31+NMRV050 | TH63A4 | - | - |
| 4.5 | 3.9 | 1181 | 4.20 | 60.00 | 252.00 | 4593 | 1839 | HW040+NMRV-P090 | TH63B6 | - | - |
| 7.0 | 5.2 | 803 | 4.20 | 60.00 | 252.00 | 4149 | 1839 | HW040+NMRV-P090 | TH63A4 | - | - |
| 7.0 | 1.4 | 771 | 6.30 | 40.00 | 252.00 | 1054 | 1088 | HA31+NMRV050 | TH63A4 | - | - |
| 4.2 | 2.7 | 1255 | 5.45 | 50.00 | 272.73 | 3446 | 1659 | HW030+NMRV-P075 | TH63B6 | - | - |
| 6.0 | 3.8 | 845 | 5.45 | 50.00 | 272.73 | 3190 | 1659 | HW030+NMRV-P075 | TH63A4 | - | - |
| 4.2 | 1.7 | 1210 | 5.45 | 50.00 | 272.73 | 2107 | 1410 | HW030+NMRV-P063 | TH63B6 | - | - |
| 6.0 | 2.4 | 812 | 5.45 | 50.00 | 272.73 | 1959 | 1410 | HW030+NMRV-P063 | TH63A4 | - | - |
| 6.0 | 1.2 | 784 | 5.45 | 50.00 | 272.73 | 977 | 1088 | HA31+NMRV050 | TH63A4 | - | - |
| 4.1 | 7.1 | 1457 | 5.50 | 50.00 | 275.00 | 10356 | 2320 | HW040+NMRV-P110 | TH63B6 | - | - |
| 4.1 | 4.0 | 1359 | 5.50 | 50.00 | 275.00 | 5498 | 1839 | HW040+NMRV-P090 | TH63B6 | - | - |
| 6.0 | 5.6 | 914 | 5.50 | 50.00 | 275.00 | 5075 | 1839 | HW040+NMRV-P090 | TH63A4 | - | - |
| 6.0 | 1.1 | 767 | 4.75 | 60.00 | 285.00 | 840 | 1088 | HA31+NMRV050 | TH63A4 | - | - |
| 3.7 | 6.3 | 1607 | 6.09 | 50.00 | 304.55 | 10199 | 2320 | HW040+NMRV-P110 | TH63B6 | - | - |
| 3.7 | 3.7 | 1497 | 6.09 | 50.00 | 304.55 | 5576 | 1839 | HW040+NMRV-P090 | TH63B6 | - | - |
| 6.0 | 5.2 | 1003 | 6.09 | 50.00 | 304.55 | 5192 | 1839 | HW040+NMRV-P090 | TH63A4 | - | - |
| 3.6 | 2.6 | 1565 | 7.88 | 40.00 | 315.00 | 4007 | 1659 | HW030+NMRV-P075 | TH63B6 | - | - |
| 6.0 | 3.7 | 1038 | 7.88 | 40.00 | 315.00 | 3798 | 1659 | HW030+NMRV-P075 | TH63A4 | - | - |
| 3.6 | 1.6 | 1476 | 7.88 | 40.00 | 315.00 | 2416 | 1410 | HW030+NMRV-P063 | TH63B6 | - | - |
| 6.0 | 2.3 | 984 | 7.88 | 40.00 | 315.00 | 2299 | 1410 | HW030+NMRV-P063 | TH63A4 | - | - |
| 6.0 | 1.1 | 893 | 6.30 | 50.00 | 315.00 | 1007 | 1088 | HA31+NMRV050 | TH63A4 | - | - |
| 3.5 | 5.6 | 1631 | 5.50 | 60.00 | 330.00 | 9094 | 2320 | HW040+NMRV-P110 | TH63B6 | - | - |
| 5.0 | 7.3 | 1096 | 5.50 | 60.00 | 330.00 | 7968 | 2320 | HW040+NMRV-P110 | TH63A4 | - | - |
| 3.5 | 3.2 | 1517 | 5.50 | 60.00 | 330.00 | 4789 | 1839 | HW040+NMRV-P090 | TH63B6 | - | - |
| 5.0 | 4.4 | 1022 | 5.50 | 60.00 | 330.00 | 4450 | 1839 | HW040+NMRV-P090 | TH63A4 | - | - |
| 3.0 | 4.2 | 2006 | 7.67 | 50.00 | 383.33 | 8388 | 2320 | HW040+NMRV-P110 | TH63B6 | - | - |
| 4.6 | 6.2 | 1330 | 7.67 | 50.00 | 383.33 | 8294 | 2320 | HW040+NMRV-P110 | TH63A4 | - | - |
| 3.0 | 3.1 | 1864 | 7.67 | 50.00 | 383.33 | 5728 | 1839 | HW040+NMRV-P090 | TH63B6 | - | - |
| 4.6 | 4.4 | 1242 | 7.67 | 50.00 | 383.33 | 5417 | 1839 | HW040+NMRV-P090 | TH63A4 | - | - |
| 2.9 | 2.0 | 1777 | 7.88 | 50.00 | 393.75 | 3582 | 1659 | HW030+NMRV-P075 | TH63B6 | - | - |
| 4.4 | 2.9 | 1186 | 7.88 | 50.00 | 393.75 | 3416 | 1659 | HW030+NMRV-P075 | TH63A4 | - | - |
| 2.9 | 1.3 | 1719 | 7.88 | 50.00 | 393.75 | 2187 | 1410 | HW030+NMRV-P063 | TH63B6 | - | - |
| 4.4 | 1.8 | 1143 | 7.88 | 50.00 | 393.75 | 2089 | 1410 | HW030+NMRV-P063 | TH63A4 | - | - |
| 2.6 | 1.2 | 2007 | 10.83 | 40.00 | 433.33 | 2474 | 1410 | HW030+NMRV-P063 | TH63B6 | - | - |
| 4.0 | 1.8 | 1330 | 10.83 | 40.00 | 433.33 | 2392 | 1410 | HW030+NMRV-P063 | TH63A4 | - | - |
| 2.6 | 2.7 | 2117 | 8.75 | 50.00 | 437.50 | 5800 | 1839 | HW040+NMRV-P090 | TH63B6 | - | - |
| 4.0 | 3.9 | 1407 | 8.75 | 50.00 | 437.50 | 5525 | 1839 | HW040+NMRV-P090 | TH63A4 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.16 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 2.6 | 3.8 | 1990 | 5.50 | 80.00 | 440.00 | 7610 | 2320 | HW040+NMRV-P110 | TH63B6 | - | - |
| 4.0 | 5.0 | 1334 | 5.50 | 80.00 | 440.00 | 6637 | 2320 | HW040+NMRV-P110 | TH63A4 | - | - |
| 2.5 | 4.2 | 2237 | 7.67 | 60.00 | 460.00 | 9379 | 2320 | HW040+NMRV-P110 | TH63B6 | - | - |
| 3.8 | 5.7 | 1491 | 7.67 | 60.00 | 460.00 | 8491 | 2320 | HW040+NMRV-P110 | TH63A4 | - | - |
| 2.5 | 2.4 | 2078 | 7.67 | 60.00 | 460.00 | 4973 | 1839 | HW040+NMRV-P090 | TH63B6 | - | - |
| 3.8 | 3.4 | 1388 | 7.67 | 60.00 | 460.00 | 4725 | 1839 | HW040+NMRV-P090 | TH63A4 | - | - |
| 2.4 | 1.7 | 2010 | 7.88 | 60.00 | 472.50 | 3382 | 1659 | HW030+NMRV-P075 | TH63B6 | - | - |
| 3.7 | 2.4 | 1343 | 7.88 | 60.00 | 472.50 | 3239 | 1659 | HW030+NMRV-P075 | TH63A4 | - | - |
| 2.4 | 1.0 | 1887 | 7.88 | 60.00 | 472.50 | 1974 | 1410 | HW030+NMRV-P063 | TH63B6 | - | - |
| 3.7 | 1.5 | 1263 | 7.88 | 60.00 | 472.50 | 1896 | 1410 | HW030+NMRV-P063 | TH63A4 | - | - |
| 2.2 | 3.2 | 2540 | 8.75 | 60.00 | 525.00 | 8116 | 2320 | HW040+NMRV-P110 | TH63B6 | - | - |
| 3.3 | 4.7 | 1688 | 8.75 | 60.00 | 525.00 | 8008 | 2320 | HW040+NMRV-P110 | TH63A4 | - | - |
| 2.2 | 2.1 | 2359 | 8.75 | 60.00 | 525.00 | 5031 | 1839 | HW040+NMRV-P090 | TH63B6 | - | - |
| 3.3 | 3.1 | 1570 | 8.75 | 60.00 | 525.00 | 4811 | 1839 | HW040+NMRV-P090 | TH63A4 | - | - |
| 2.1 | 1.3 | 2415 | 10.83 | 50.00 | 541.67 | 3228 | 1659 | HW030+NMRV-P075 | TH63B6 | - | - |
| 3.2 | 1.9 | 1601 | 10.83 | 50.00 | 541.67 | 3062 | 1659 | HW030+NMRV-P075 | TH63A4 | - | - |
| 3.2 | 1.4 | 1548 | 10.83 | 50.00 | 541.67 | 2167 | 1410 | HW030+NMRV-P063 | TH63A4 | - | - |
| 1.9 | 2.9 | 2733 | 7.67 | 80.00 | 613.33 | 7885 | 2320 | HW040+NMRV-P110 | TH63B6 | - | - |
| 2.9 | 3.9 | 1818 | 7.67 | 80.00 | 613.33 | 7022 | 2320 | HW040+NMRV-P110 | TH63A4 | - | - |
| 1.9 | 1.6 | 2521 | 7.67 | 80.00 | 613.33 | 3980 | 1839 | HW040+NMRV-P090 | TH63B6 | - | - |
| 2.9 | 2.2 | 1680 | 7.67 | 80.00 | 613.33 | 3771 | 1839 | HW040+NMRV-P090 | TH63A4 | - | - |
| 1.8 | 1.3 | 2730 | 10.83 | 60.00 | 650.00 | 3452 | 1659 | HW030+NMRV-P075 | TH63B6 | - | - |
| 2.7 | 1.8 | 1812 | 10.83 | 60.00 | 650.00 | 3352 | 1659 | HW030+NMRV-P075 | TH63A4 | - | - |
| 2.7 | 1.1 | 1702 | 10.83 | 60.00 | 650.00 | 1958 | 1410 | HW030+NMRV-P063 | TH63A4 | - | - |
| 1.6 | 2.6 | 3104 | 8.75 | 80.00 | 700.00 | 7971 | 2320 | HW040+NMRV-P110 | TH63B6 | - | - |
| 2.5 | 3.5 | 2060 | 8.75 | 80.00 | 700.00 | 7143 | 2320 | HW040+NMRV-P110 | TH63A4 | - | - |
| 1.6 | 1.4 | 2862 | 8.75 | 80.00 | 700.00 | 4035 | 1839 | HW040+NMRV-P090 | TH63B6 | - | - |
| 2.5 | 2.0 | 1902 | 8.75 | 80.00 | 700.00 | 3828 | 1839 | HW040+NMRV-P090 | TH63A4 | - | - |
| 1.5 | 2.2 | 3067 | 7.67 | 100.00 | 766.67 | 6608 | 2320 | HW040+NMRV-P110 | TH63B6 | - | - |
| 2.3 | 2.7 | 2054 | 7.67 | 100.00 | 766.67 | 5645 | 2320 | HW040+NMRV-P110 | TH63A4 | - | - |
| 1.5 | 1.1 | 2802 | 7.67 | 100.00 | 766.67 | 3201 | 1839 | HW040+NMRV-P090 | TH63B6 | - | - |
| 2.3 | 1.7 | 1882 | 7.67 | 100.00 | 766.67 | 3110 | 1839 | HW040+NMRV-P090 | TH63A4 | - | - |
| 2.2 | 1.1 | 1751 | 7.88 | 100.00 | 787.50 | 1973 | 1659 | HW030+NMRV-P075 | TH63A4 | - | - |
| 2.0 | 1.2 | 2135 | 10.83 | 80.00 | 866.67 | 2527 | 1659 | HW030+NMRV-P075 | TH63A4 | - | - |
| 1.3 | 1.9 | 3478 | 8.75 | 100.00 | 875.00 | 6660 | 2320 | HW040+NMRV-P110 | TH63B6 | - | - |
| 2.0 | 2.4 | 2322 | 8.75 | 100.00 | 875.00 | 5681 | 2320 | HW040+NMRV-P110 | TH63A4 | - | - |
| 1.3 | 1.0 | 3176 | 8.75 | 100.00 | 875.00 | 3227 | 1839 | HW040+NMRV-P090 | TH63B6 | - | - |
| 2.0 | 1.5 | 2125 | 8.75 | 100.00 | 875.00 | 3130 | 1839 | HW040+NMRV-P090 | TH63A4 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.25 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 52.0 | 7.4 | 240 | 2.94 | 7.50 | 22.08 | 1773 | 814 | HW030+NMRV-P063 | TH71A6 | - | - |
| 52.0 | 3.7 | 235 | 2.94 | 7.50 | 22.08 | 877 | 623 | HA31+NMRV050 | TH71A6 | - | - |
| 79.0 | 5.3 | 156 | 2.94 | 7.50 | 22.08 | 820 | 540 | HA31+NMRV050 | TH63B4 | - | - |
| 52.0 | 2.4 | 232 | 2.94 | 7.50 | 22.08 | 549 | 454 | HA31+NMRV040 | TH71A6 | - | - |
| 79.0 | 3.1 | 154 | 2.94 | 7.50 | 22.08 | 475 | 393 | HA31+NMRV040 | TH63B4 | - | - |
| 48.0 | 2.5 | 255 | 4.75 | 5.00 | 23.75 | 647 | 638 | HA31+NMRV050 | TH71A6 | - | - |
| 74.0 | 3.6 | 168 | 4.75 | 5.00 | 23.75 | 603 | 553 | HA31+NMRV050 | TH63B4 | - | - |
| 48.0 | 2.3 | 255 | 4.75 | 5.00 | 23.75 | 583 | 465 | HA31+NMRV040 | TH71A6 | - | - |
| 74.0 | 3.1 | 168 | 4.75 | 5.00 | 23.75 | 522 | 403 | HA31+NMRV040 | TH63B4 | - | - |
| 45.0 | 2.5 | 274 | 5.10 | 5.00 | 25.50 | 675 | 653 | HA31+NMRV050 | TH71A6 | - | - |
| 69.0 | 3.5 | 180 | 5.10 | 5.00 | 25.50 | 628 | 566 | HA31+NMRV050 | TH63B4 | - | - |
| 45.0 | 2.2 | 274 | 5.10 | 5.00 | 25.50 | 591 | 476 | HA31+NMRV040 | TH71A6 | - | - |
| 69.0 | 3.0 | 180 | 5.10 | 5.00 | 25.50 | 534 | 413 | HA31+NMRV040 | TH63B4 | - | - |
| 39.0 | 8.0 | 312 | 3.87 | 7.50 | 29.00 | 2498 | 1052 | HW030+NMRV-P075 | TH71A6 | - | - |
| 39.0 | 6.2 | 313 | 3.87 | 7.50 | 29.00 | 1941 | 891 | HW030+NMRV-P063 | TH71A6 | - | - |
| 39.0 | 3.5 | 305 | 2.94 | 10.00 | 29.44 | 1080 | 685 | HA31+NMRV050 | TH71A6 | - | - |
| 59.0 | 4.7 | 203 | 2.94 | 10.00 | 29.44 | 956 | 594 | HA31+NMRV050 | TH63B4 | - | - |
| 39.0 | 1.9 | 299 | 2.94 | 10.00 | 29.44 | 562 | 499 | HA31+NMRV040 | TH71A6 | - | - |
| 59.0 | 2.5 | 200 | 2.94 | 10.00 | 29.44 | 499 | 433 | HA31+NMRV040 | TH63B4 | - | - |
| 36.0 | 2.0 | 338 | 6.30 | 5.00 | 31.50 | 673 | 701 | HA31+NMRV050 | TH71A6 | - | - |
| 56.0 | 2.8 | 221 | 6.30 | 5.00 | 31.50 | 623 | 608 | HA31+NMRV050 | TH63B4 | - | - |
| 36.0 | 1.8 | 338 | 6.30 | 5.00 | 31.50 | 602 | 511 | HA31+NMRV040 | TH71A6 | - | - |
| 56.0 | 2.6 | 221 | 6.30 | 5.00 | 31.50 | 565 | 443 | HA31+NMRV040 | TH63B4 | - | - |
| 32.0 | 2.5 | 374 | 4.75 | 7.50 | 35.63 | 948 | 730 | HA31+NMRV050 | TH71A6 | - | - |
| 49.0 | 3.6 | 246 | 4.75 | 7.50 | 35.63 | 883 | 633 | HA31+NMRV050 | TH63B4 | - | - |
| 32.0 | 1.7 | 369 | 4.75 | 7.50 | 35.63 | 618 | 532 | HA31+NMRV040 | TH71A6 | - | - |
| 49.0 | 2.3 | 243 | 4.75 | 7.50 | 35.63 | 558 | 461 | HA31+NMRV040 | TH63B4 | - | - |
| 29.0 | 7.1 | 402 | 3.87 | 10.00 | 38.67 | 2848 | 1158 | HW030+NMRV-P075 | TH71A6 | - | - |
| 29.0 | 4.9 | 397 | 3.87 | 10.00 | 38.67 | 1951 | 981 | HW030+NMRV-P063 | TH71A6 | - | - |
| 45.0 | 6.4 | 263 | 3.87 | 10.00 | 38.67 | 1692 | 851 | HW030+NMRV-P063 | TH63B4 | - | - |
| 28.0 | 2.3 | 429 | 5.45 | 7.50 | 40.91 | 987 | 765 | HA31+NMRV050 | TH71A6 | - | - |
| 43.0 | 3.3 | 281 | 5.45 | 7.50 | 40.91 | 918 | 663 | HA31+NMRV050 | TH63B4 | - | - |
| 28.0 | 1.5 | 424 | 5.45 | 7.50 | 40.91 | 633 | 557 | HA31+NMRV040 | TH71A6 | - | - |
| 43.0 | 2.1 | 278 | 5.45 | 7.50 | 40.91 | 580 | 483 | HA31+NMRV040 | TH63B4 | - | - |
| 26.0 | 6.9 | 443 | 2.94 | 15.00 | 44.17 | 3065 | 1211 | HW030+NMRV-P075 | TH71A6 | - | - |
| 26.0 | 4.5 | 431 | 2.94 | 15.00 | 44.17 | 1928 | 1026 | HW030+NMRV-P063 | TH71A6 | - | - |
| 40.0 | 5.8 | 289 | 2.94 | 15.00 | 44.17 | 1672 | 889 | HW030+NMRV-P063 | TH63B4 | - | - |
| 26.0 | 2.5 | 425 | 2.94 | 15.00 | 44.17 | 1073 | 785 | HA31+NMRV050 | TH71A6 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.25 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 40.0 | 3.3 | 286 | 2.94 | 15.00 | 44.17 | 956 | 680 | HA31+NMRV050 | TH63B4 | - | - |
| 26.0 | 1.4 | 423 | 2.94 | 15.00 | 44.17 | 577 | 572 | HA31+NMRV040 | TH71A6 | - | - |
| 40.0 | 1.8 | 282 | 2.94 | 15.00 | 44.17 | 517 | 496 | HA31+NMRV040 | TH63B4 | - | - |
| 24.0 | 6.2 | 491 | 4.75 | 10.00 | 47.50 | 3051 | 1240 | HW030+NMRV-P075 | TH71A6 | - | - |
| 24.0 | 4.3 | 485 | 4.75 | 10.00 | 47.50 | 2091 | 1051 | HW030+NMRV-P063 | TH71A6 | - | - |
| 37.0 | 5.7 | 320 | 4.75 | 10.00 | 47.50 | 1813 | 911 | HW030+NMRV-P063 | TH63B4 | - | - |
| 24.0 | 2.4 | 486 | 4.75 | 10.00 | 47.50 | 1184 | 804 | HA31+NMRV050 | TH71A6 | - | - |
| 37.0 | 3.4 | 320 | 4.75 | 10.00 | 47.50 | 1093 | 697 | HA31+NMRV050 | TH63B4 | - | - |
| 24.0 | 1.3 | 473 | 4.75 | 10.00 | 47.50 | 614 | 586 | HA31+NMRV040 | TH71A6 | - | - |
| 37.0 | 1.8 | 314 | 4.75 | 10.00 | 47.50 | 569 | 508 | HA31+NMRV040 | TH63B4 | - | - |
| 21.0 | 2.2 | 558 | 5.45 | 10.00 | 54.55 | 1206 | 842 | HA31+NMRV050 | TH71A6 | - | - |
| 32.0 | 3.1 | 366 | 5.45 | 10.00 | 54.55 | 1127 | 730 | HA31+NMRV050 | TH63B4 | - | - |
| 21.0 | 1.1 | 544 | 5.45 | 10.00 | 54.55 | 625 | 613 | HA31+NMRV040 | TH71A6 | - | - |
| 32.0 | 1.6 | 358 | 5.45 | 10.00 | 54.55 | 586 | 532 | HA31+NMRV040 | TH63B4 | - | - |
| 20.0 | 5.8 | 574 | 3.87 | 15.00 | 58.00 | 3355 | 1326 | HW030+NMRV-P075 | TH71A6 | - | - |
| 30.0 | 7.6 | 382 | 3.87 | 15.00 | 58.00 | 2909 | 1149 | HW030+NMRV-P075 | TH63B4 | - | - |
| 20.0 | 3.8 | 559 | 3.87 | 15.00 | 58.00 | 2110 | 1123 | HW030+NMRV-P063 | TH71A6 | - | - |
| 30.0 | 4.9 | 373 | 3.87 | 15.00 | 58.00 | 1829 | 974 | HW030+NMRV-P063 | TH63B4 | - | - |
| 19.0 | 1.8 | 539 | 2.94 | 20.00 | 58.89 | 952 | 864 | HA31+NMRV050 | TH71A6 | - | - |
| 30.0 | 2.3 | 365 | 2.94 | 20.00 | 58.89 | 850 | 749 | HA31+NMRV050 | TH63B4 | - | - |
| 30.0 | 1.3 | 361 | 2.94 | 20.00 | 58.89 | 486 | 545 | HA31+NMRV040 | TH63B4 | - | - |
| 18.0 | 1.9 | 644 | 6.30 | 10.00 | 63.00 | 1213 | 883 | HA31+NMRV050 | TH71A6 | - | - |
| 28.0 | 2.8 | 421 | 6.30 | 10.00 | 63.00 | 1157 | 766 | HA31+NMRV050 | TH63B4 | - | - |
| 18.0 | 1.0 | 628 | 6.30 | 10.00 | 63.00 | 628 | 644 | HA31+NMRV040 | TH71A6 | - | - |
| 28.0 | 1.5 | 411 | 6.30 | 10.00 | 63.00 | 601 | 558 | HA31+NMRV040 | TH63B4 | - | - |
| 16.0 | 5.1 | 700 | 4.75 | 15.00 | 71.25 | 3595 | 1420 | HW030+NMRV-P075 | TH71A6 | - | - |
| 25.0 | 6.7 | 464 | 4.75 | 15.00 | 71.25 | 3117 | 1231 | HW030+NMRV-P075 | TH63B4 | - | - |
| 16.0 | 3.3 | 681 | 4.75 | 15.00 | 71.25 | 2261 | 1203 | HW030+NMRV-P063 | TH71A6 | - | - |
| 25.0 | 4.3 | 452 | 4.75 | 15.00 | 71.25 | 1960 | 1043 | HW030+NMRV-P063 | TH63B4 | - | - |
| 16.0 | 1.7 | 673 | 4.75 | 15.00 | 71.25 | 1169 | 920 | HA31+NMRV050 | TH71A6 | - | - |
| 25.0 | 2.4 | 446 | 4.75 | 15.00 | 71.25 | 1086 | 798 | HA31+NMRV050 | TH63B4 | - | - |
| 25.0 | 1.3 | 444 | 4.75 | 15.00 | 71.25 | 583 | 581 | HA31+NMRV040 | TH63B4 | - | - |
| 15.0 | 5.0 | 726 | 3.87 | 20.00 | 77.33 | 3623 | 1459 | HW030+NMRV-P075 | TH71A6 | - | - |
| 23.0 | 6.3 | 487 | 3.87 | 20.00 | 77.33 | 3057 | 1265 | HW030+NMRV-P075 | TH63B4 | - | - |
| 15.0 | 3.0 | 706 | 3.87 | 20.00 | 77.33 | 2153 | 1236 | HW030+NMRV-P063 | TH71A6 | - | - |
| 23.0 | 3.8 | 474 | 3.87 | 20.00 | 77.33 | 1816 | 1072 | HW030+NMRV-P063 | TH63B4 | - | - |
| 15.0 | 6.8 | 736 | 3.11 | 25.00 | 77.63 | 4992 | 1617 | HW040+NMRV-P090 | TH71A6 | - | - |
| 23.0 | 8.0 | 493 | 3.11 | 25.00 | 77.63 | 3927 | 1401 | HW040+NMRV-P090 | TH63B4 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.25 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 14.0 | 1.5 | 805 | 7.88 | 10.00 | 78.75 | 1213 | 952 | HA31+NMRV050 | TH71A6 | - | - |
| 22.0 | 2.1 | 525 | 7.88 | 10.00 | 78.75 | 1128 | 825 | HA31+NMRV050 | TH63B4 | - | - |
| 22.0 | 1.2 | 511 | 7.88 | 10.00 | 78.75 | 621 | 601 | HA31+NMRV040 | TH63B4 | - | - |
| 14.0 | 4.6 | 800 | 5.45 | 15.00 | 81.82 | 3658 | 1487 | HW030+NMRV-P075 | TH71A6 | - | - |
| 21.0 | 6.2 | 530 | 5.45 | 15.00 | 81.82 | 3264 | 1289 | HW030+NMRV-P075 | TH63B4 | - | - |
| 14.0 | 3.0 | 779 | 5.45 | 15.00 | 81.82 | 2367 | 1260 | HW030+NMRV-P063 | TH71A6 | - | - |
| 21.0 | 4.0 | 516 | 5.45 | 15.00 | 81.82 | 2053 | 1092 | HW030+NMRV-P063 | TH63B4 | - | - |
| 14.0 | 6.9 | 818 | 4.20 | 20.00 | 84.00 | 5608 | 1660 | HW040+NMRV-P090 | TH71A6 | - | - |
| 13.0 | 4.4 | 752 | 2.94 | 30.00 | 88.33 | 3313 | 1525 | HW030+NMRV-P075 | TH71A6 | - | - |
| 20.0 | 5.6 | 511 | 2.94 | 30.00 | 88.33 | 2873 | 1322 | HW030+NMRV-P075 | TH63B4 | - | - |
| 13.0 | 2.9 | 718 | 2.94 | 30.00 | 88.33 | 2051 | 1292 | HW030+NMRV-P063 | TH71A6 | - | - |
| 20.0 | 3.6 | 489 | 2.94 | 30.00 | 88.33 | 1778 | 1120 | HW030+NMRV-P063 | TH63B4 | - | - |
| 13.0 | 1.6 | 706 | 2.94 | 30.00 | 88.33 | 1107 | 989 | HA31+NMRV050 | TH71A6 | - | - |
| 20.0 | 2.0 | 481 | 2.94 | 30.00 | 88.33 | 960 | 857 | HA31+NMRV050 | TH63B4 | - | - |
| 20.0 | 1.1 | 474 | 2.94 | 30.00 | 88.33 | 530 | 624 | HA31+NMRV040 | TH63B4 | - | - |
| 12.0 | 6.9 | 826 | 3.11 | 30.00 | 93.16 | 5680 | 1718 | HW040+NMRV-P090 | TH71A6 | - | - |
| 12.0 | 1.3 | 893 | 6.30 | 15.00 | 94.50 | 1195 | 1011 | HA31+NMRV050 | TH71A6 | - | - |
| 19.0 | 2.0 | 584 | 6.30 | 15.00 | 94.50 | 1144 | 877 | HA31+NMRV050 | TH63B4 | - | - |
| 19.0 | 1.0 | 584 | 6.30 | 15.00 | 94.50 | 612 | 639 | HA31+NMRV040 | TH63B4 | - | - |
| 12.0 | 4.4 | 883 | 4.75 | 20.00 | 95.00 | 3857 | 1563 | HW030+NMRV-P075 | TH71A6 | - | - |
| 18.0 | 5.7 | 589 | 4.75 | 20.00 | 95.00 | 3366 | 1355 | HW030+NMRV-P075 | TH63B4 | - | - |
| 12.0 | 2.6 | 859 | 4.75 | 20.00 | 95.00 | 2271 | 1324 | HW030+NMRV-P063 | TH71A6 | - | - |
| 18.0 | 3.5 | 573 | 4.75 | 20.00 | 95.00 | 1997 | 1148 | HW030+NMRV-P063 | TH63B4 | - | - |
| 11.0 | 1.2 | 911 | 5.10 | 20.00 | 102.00 | 1048 | 1037 | HA31+NMRV050 | TH71A6 | - | - |
| 17.0 | 1.6 | 604 | 5.10 | 20.00 | 102.00 | 978 | 899 | HA31+NMRV050 | TH63B4 | - | - |
| 10.0 | 3.9 | 1009 | 5.45 | 20.00 | 109.09 | 3973 | 1636 | HW030+NMRV-P075 | TH71A6 | - | - |
| 16.0 | 5.3 | 671 | 5.45 | 20.00 | 109.09 | 3525 | 1419 | HW030+NMRV-P075 | TH63B4 | - | - |
| 10.0 | 2.4 | 980 | 5.45 | 20.00 | 109.09 | 2337 | 1386 | HW030+NMRV-P063 | TH71A6 | - | - |
| 16.0 | 3.2 | 653 | 5.45 | 20.00 | 109.09 | 2099 | 1202 | HW030+NMRV-P063 | TH63B4 | - | - |
| 10.0 | 1.1 | 974 | 5.45 | 20.00 | 109.09 | 1057 | 1061 | HA31+NMRV050 | TH71A6 | - | - |
| 16.0 | 1.5 | 643 | 5.45 | 20.00 | 109.09 | 991 | 919 | HA31+NMRV050 | TH63B4 | - | - |
| 10.0 | 5.8 | 1061 | 5.50 | 20.00 | 110.00 | 6135 | 1816 | HW040+NMRV-P090 | TH71A6 | - | - |
| 16.0 | 7.6 | 702 | 5.50 | 20.00 | 110.00 | 5319 | 1574 | HW040+NMRV-P090 | TH63B4 | - | - |
| 10.0 | 3.7 | 969 | 3.87 | 30.00 | 116.00 | 3626 | 1659 | HW030+NMRV-P075 | TH71A6 | - | - |
| 15.0 | 4.8 | 653 | 3.87 | 30.00 | 116.00 | 3144 | 1448 | HW030+NMRV-P075 | TH63B4 | - | - |
| 10.0 | 2.1 | 1114 | 7.88 | 15.00 | 118.13 | 2330 | 1410 | HW030+NMRV-P063 | TH71A6 | - | - |
| 15.0 | 3.2 | 734 | 7.88 | 15.00 | 118.13 | 2320 | 1234 | HW030+NMRV-P063 | TH63B4 | - | - |
| 10.0 | 1.1 | 1116 | 7.88 | 15.00 | 118.13 | 1195 | 1088 | HA31+NMRV050 | TH71A6 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.25 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 15.0 | 1.6 | 727 | 7.88 | 15.00 | 118.13 | 1180 | 944 | HA31+NMRV050 | TH63B4 | - | - |
| 9.0 | 5.7 | 1097 | 4.20 | 30.00 | 126.00 | 6281 | 1839 | HW040+NMRV-P090 | TH71A6 | - | - |
| 14.0 | 7.4 | 736 | 4.20 | 30.00 | 126.00 | 5445 | 1647 | HW040+NMRV-P090 | TH63B4 | - | - |
| 14.0 | 1.3 | 712 | 5.10 | 25.00 | 127.50 | 898 | 969 | HA31+NMRV050 | TH63B4 | - | - |
| 8.0 | 2.9 | 1208 | 5.45 | 25.00 | 136.36 | 3551 | 1659 | HW030+NMRV-P075 | TH71A6 | - | - |
| 13.0 | 4.0 | 804 | 5.45 | 25.00 | 136.36 | 3183 | 1528 | HW030+NMRV-P075 | TH63B4 | - | - |
| 8.0 | 1.8 | 1172 | 5.45 | 25.00 | 136.36 | 2123 | 1410 | HW030+NMRV-P063 | TH71A6 | - | - |
| 13.0 | 2.4 | 781 | 5.45 | 25.00 | 136.36 | 1913 | 1295 | HW030+NMRV-P063 | TH63B4 | - | - |
| 8.0 | 6.4 | 1326 | 5.50 | 25.00 | 137.50 | 8475 | 2320 | HW040+NMRV-P110 | TH71A6 | - | - |
| 8.0 | 4.7 | 1273 | 5.50 | 25.00 | 137.50 | 5925 | 1839 | HW040+NMRV-P090 | TH71A6 | - | - |
| 13.0 | 6.2 | 843 | 5.50 | 25.00 | 137.50 | 5235 | 1696 | HW040+NMRV-P090 | TH63B4 | - | - |
| 8.0 | 3.3 | 1177 | 4.75 | 30.00 | 142.50 | 3886 | 1659 | HW030+NMRV-P075 | TH71A6 | - | - |
| 12.0 | 4.3 | 788 | 4.75 | 30.00 | 142.50 | 3369 | 1551 | HW030+NMRV-P075 | TH63B4 | - | - |
| 8.0 | 2.1 | 1122 | 4.75 | 30.00 | 142.50 | 2405 | 1410 | HW030+NMRV-P063 | TH71A6 | - | - |
| 12.0 | 2.8 | 752 | 4.75 | 30.00 | 142.50 | 2085 | 1314 | HW030+NMRV-P063 | TH63B4 | - | - |
| 8.0 | 1.1 | 1107 | 4.75 | 30.00 | 142.50 | 1246 | 1088 | HA31+NMRV050 | TH71A6 | - | - |
| 12.0 | 1.5 | 740 | 4.75 | 30.00 | 142.50 | 1124 | 1005 | HA31+NMRV050 | TH63B4 | - | - |
| 7.0 | 3.0 | 1192 | 3.87 | 40.00 | 154.67 | 3554 | 1659 | HW030+NMRV-P075 | TH71A6 | - | - |
| 11.0 | 3.8 | 805 | 3.87 | 40.00 | 154.67 | 3081 | 1594 | HW030+NMRV-P075 | TH63B4 | - | - |
| 11.0 | 1.3 | 747 | 3.87 | 40.00 | 154.67 | 956 | 1033 | HA31+NMRV050 | TH63B4 | - | - |
| 7.0 | 6.9 | 1276 | 3.11 | 50.00 | 155.26 | 8755 | 2320 | HW040+NMRV-P110 | TH71A6 | - | - |
| 7.0 | 4.1 | 1202 | 3.11 | 50.00 | 155.26 | 4874 | 1839 | HW040+NMRV-P090 | TH71A6 | - | - |
| 11.0 | 5.0 | 825 | 3.11 | 50.00 | 155.26 | 4139 | 1766 | HW040+NMRV-P090 | TH63B4 | - | - |
| 7.0 | 1.8 | 1398 | 7.88 | 20.00 | 157.50 | 2479 | 1410 | HW030+NMRV-P063 | TH71A6 | - | - |
| 11.0 | 2.5 | 925 | 7.88 | 20.00 | 157.50 | 2308 | 1358 | HW030+NMRV-P063 | TH63B4 | - | - |
| 7.0 | 3.0 | 1343 | 5.45 | 30.00 | 163.64 | 4069 | 1659 | HW030+NMRV-P075 | TH71A6 | - | - |
| 11.0 | 3.9 | 896 | 5.45 | 30.00 | 163.64 | 3528 | 1624 | HW030+NMRV-P075 | TH63B4 | - | - |
| 7.0 | 2.0 | 1280 | 5.45 | 30.00 | 163.64 | 2519 | 1410 | HW030+NMRV-P063 | TH71A6 | - | - |
| 11.0 | 2.6 | 855 | 5.45 | 30.00 | 163.64 | 2184 | 1376 | HW030+NMRV-P063 | TH63B4 | - | - |
| 7.0 | 1.0 | 1271 | 5.45 | 30.00 | 163.64 | 1275 | 1088 | HA31+NMRV050 | TH71A6 | - | - |
| 11.0 | 1.4 | 841 | 5.45 | 30.00 | 163.64 | 1169 | 1053 | HA31+NMRV050 | TH63B4 | - | - |
| 7.0 | 4.8 | 1418 | 5.50 | 30.00 | 165.00 | 6871 | 1839 | HW040+NMRV-P090 | TH71A6 | - | - |
| 11.0 | 6.3 | 945 | 5.50 | 30.00 | 165.00 | 5957 | 1802 | HW040+NMRV-P090 | TH63B4 | - | - |
| 7.0 | 7.4 | 1420 | 4.20 | 40.00 | 168.00 | 10558 | 2320 | HW040+NMRV-P110 | TH71A6 | - | - |
| 6.0 | 2.4 | 1215 | 2.94 | 60.00 | 176.67 | 2900 | 1659 | HW030+NMRV-P075 | TH71A6 | - | - |
| 10.0 | 3.0 | 842 | 2.94 | 60.00 | 176.67 | 2492 | 1659 | HW030+NMRV-P075 | TH63B4 | - | - |
| 6.0 | 1.5 | 1146 | 2.94 | 60.00 | 176.67 | 1716 | 1410 | HW030+NMRV-P063 | TH71A6 | - | - |
| 10.0 | 1.9 | 797 | 2.94 | 60.00 | 176.67 | 1490 | 1410 | HW030+NMRV-P063 | TH63B4 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.25 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 6.0 | 5.3 | 1442 | 3.11 | 60.00 | 186.32 | 7684 | 2320 | HW040+NMRV-P110 | TH71A6 | - | - |
| 6.0 | 3.2 | 1346 | 3.11 | 60.00 | 186.32 | 4301 | 1839 | HW040+NMRV-P090 | TH71A6 | - | - |
| 9.0 | 4.0 | 927 | 3.11 | 60.00 | 186.32 | 3700 | 1839 | HW040+NMRV-P090 | TH63B4 | - | - |
| 9.0 | 1.3 | 962 | 6.30 | 30.00 | 189.00 | 1210 | 1088 | HA31+NMRV050 | TH63B4 | - | - |
| 6.0 | 2.1 | 1722 | 7.88 | 25.00 | 196.88 | 3608 | 1659 | HW030+NMRV-P075 | TH71A6 | - | - |
| 9.0 | 3.1 | 1139 | 7.88 | 25.00 | 196.88 | 3508 | 1659 | HW030+NMRV-P075 | TH63B4 | - | - |
| 6.0 | 1.3 | 1671 | 7.88 | 25.00 | 196.88 | 2224 | 1410 | HW030+NMRV-P063 | TH71A6 | - | - |
| 9.0 | 1.9 | 1106 | 7.88 | 25.00 | 196.88 | 2098 | 1410 | HW030+NMRV-P063 | TH63B4 | - | - |
| 9.0 | 1.1 | 955 | 5.10 | 40.00 | 204.00 | 1017 | 1088 | HA31+NMRV050 | TH63B4 | - | - |
| 5.0 | 2.3 | 1650 | 5.45 | 40.00 | 218.18 | 3835 | 1659 | HW030+NMRV-P075 | TH71A6 | - | - |
| 8.0 | 3.1 | 1103 | 5.45 | 40.00 | 218.18 | 3457 | 1659 | HW030+NMRV-P075 | TH63B4 | - | - |
| 5.0 | 1.5 | 1562 | 5.45 | 40.00 | 218.18 | 2321 | 1410 | HW030+NMRV-P063 | TH71A6 | - | - |
| 8.0 | 2.0 | 1051 | 5.45 | 40.00 | 218.18 | 2115 | 1410 | HW030+NMRV-P063 | TH63B4 | - | - |
| 5.0 | 6.1 | 1831 | 5.50 | 40.00 | 220.00 | 11144 | 2320 | HW040+NMRV-P110 | TH71A6 | - | - |
| 5.0 | 3.6 | 1749 | 5.50 | 40.00 | 220.00 | 6265 | 1839 | HW040+NMRV-P090 | TH71A6 | - | - |
| 8.0 | 4.7 | 1167 | 5.50 | 40.00 | 220.00 | 5432 | 1839 | HW040+NMRV-P090 | TH63B4 | - | - |
| 4.8 | 2.1 | 1914 | 7.88 | 30.00 | 236.25 | 4012 | 1659 | HW030+NMRV-P075 | TH71A6 | - | - |
| 7.0 | 3.1 | 1268 | 7.88 | 30.00 | 236.25 | 3987 | 1659 | HW030+NMRV-P075 | TH63B4 | - | - |
| 4.8 | 1.6 | 1822 | 7.88 | 30.00 | 236.25 | 2846 | 1410 | HW030+NMRV-P063 | TH71A6 | - | - |
| 7.0 | 2.0 | 1208 | 7.88 | 30.00 | 236.25 | 2468 | 1410 | HW030+NMRV-P063 | TH63B4 | - | - |
| 7.0 | 1.1 | 1195 | 7.88 | 30.00 | 236.25 | 1262 | 1088 | HA31+NMRV050 | TH63B4 | - | - |
| 4.5 | 4.6 | 1901 | 4.20 | 60.00 | 252.00 | 8701 | 2320 | HW040+NMRV-P110 | TH71A6 | - | - |
| 4.5 | 2.6 | 1771 | 4.20 | 60.00 | 252.00 | 4593 | 1839 | HW040+NMRV-P090 | TH71A6 | - | - |
| 7.0 | 3.4 | 1204 | 4.20 | 60.00 | 252.00 | 4149 | 1839 | HW040+NMRV-P090 | TH63B4 | - | - |
| 4.2 | 1.8 | 1882 | 5.45 | 50.00 | 272.73 | 3446 | 1659 | HW030+NMRV-P075 | TH71A6 | - | - |
| 6.0 | 2.5 | 1268 | 5.45 | 50.00 | 272.73 | 3190 | 1659 | HW030+NMRV-P075 | TH63B4 | - | - |
| 4.2 | 1.2 | 1815 | 5.45 | 50.00 | 272.73 | 2107 | 1410 | HW030+NMRV-P063 | TH71A6 | - | - |
| 6.0 | 1.6 | 1218 | 5.45 | 50.00 | 272.73 | 1959 | 1410 | HW030+NMRV-P063 | TH63B4 | - | - |
| 4.1 | 4.7 | 2186 | 5.50 | 50.00 | 275.00 | 10356 | 2320 | HW040+NMRV-P110 | TH71A6 | - | - |
| 6.0 | 6.2 | 1459 | 5.50 | 50.00 | 275.00 | 9111 | 2320 | HW040+NMRV-P110 | TH63B4 | - | - |
| 4.1 | 2.7 | 2039 | 5.50 | 50.00 | 275.00 | 5498 | 1839 | HW040+NMRV-P090 | TH71A6 | - | - |
| 6.0 | 3.7 | 1370 | 5.50 | 50.00 | 275.00 | 5075 | 1839 | HW040+NMRV-P090 | TH63B4 | - | - |
| 3.7 | 4.2 | 2410 | 6.09 | 50.00 | 304.55 | 10199 | 2320 | HW040+NMRV-P110 | TH71A6 | - | - |
| 6.0 | 5.8 | 1605 | 6.09 | 50.00 | 304.55 | 9335 | 2320 | HW040+NMRV-P110 | TH63B4 | - | - |
| 3.7 | 2.5 | 2245 | 6.09 | 50.00 | 304.55 | 5576 | 1839 | HW040+NMRV-P090 | TH71A6 | - | - |
| 6.0 | 3.5 | 1505 | 6.09 | 50.00 | 304.55 | 5192 | 1839 | HW040+NMRV-P090 | TH63B4 | - | - |
| 3.6 | 1.7 | 2348 | 7.88 | 40.00 | 315.00 | 4007 | 1659 | HW030+NMRV-P075 | TH71A6 | - | - |
| 6.0 | 2.4 | 1557 | 7.88 | 40.00 | 315.00 | 3798 | 1659 | HW030+NMRV-P075 | TH63B4 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.25 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 3.6 | 1.1 | 2214 | 7.88 | 40.00 | 315.00 | 2416 | 1410 | HW030+NMRV-P063 | TH71A6 | - | - |
| 6.0 | 1.6 | 1476 | 7.88 | 40.00 | 315.00 | 2299 | 1410 | HW030+NMRV-P063 | TH63B4 | - | - |
| 3.5 | 3.7 | 2447 | 5.50 | 60.00 | 330.00 | 9094 | 2320 | HW040+NMRV-P110 | TH71A6 | - | - |
| 5.0 | 4.8 | 1644 | 5.50 | 60.00 | 330.00 | 7968 | 2320 | HW040+NMRV-P110 | TH63B4 | - | - |
| 3.5 | 2.1 | 2276 | 5.50 | 60.00 | 330.00 | 4789 | 1839 | HW040+NMRV-P090 | TH71A6 | - | - |
| 5.0 | 2.9 | 1533 | 5.50 | 60.00 | 330.00 | 4450 | 1839 | HW040+NMRV-P090 | TH63B4 | - | - |
| 3.0 | 2.8 | 3008 | 7.67 | 50.00 | 383.33 | 8388 | 2320 | HW040+NMRV-P110 | TH71A6 | - | - |
| 4.6 | 4.2 | 1995 | 7.67 | 50.00 | 383.33 | 8294 | 2320 | HW040+NMRV-P110 | TH63B4 | - | - |
| 3.0 | 2.0 | 2796 | 7.67 | 50.00 | 383.33 | 5728 | 1839 | HW040+NMRV-P090 | TH71A6 | - | - |
| 4.6 | 2.9 | 1864 | 7.67 | 50.00 | 383.33 | 5417 | 1839 | HW040+NMRV-P090 | TH63B4 | - | - |
| 2.9 | 1.3 | 2665 | 7.88 | 50.00 | 393.75 | 3582 | 1659 | HW030+NMRV-P075 | TH71A6 | - | - |
| 4.4 | 1.9 | 1778 | 7.88 | 50.00 | 393.75 | 3416 | 1659 | HW030+NMRV-P075 | TH63B4 | - | - |
| 4.4 | 1.2 | 1714 | 7.88 | 50.00 | 393.75 | 2089 | 1410 | HW030+NMRV-P063 | TH63B4 | - | - |
| 4.0 | 1.2 | 1995 | 10.83 | 40.00 | 433.33 | 2392 | 1410 | HW030+NMRV-P063 | TH63B4 | - | - |
| 2.6 | 1.8 | 3175 | 8.75 | 50.00 | 437.50 | 5800 | 1839 | HW040+NMRV-P090 | TH71A6 | - | - |
| 4.0 | 2.6 | 2110 | 8.75 | 50.00 | 437.50 | 5525 | 1839 | HW040+NMRV-P090 | TH63B4 | - | - |
| 2.6 | 2.5 | 2984 | 5.50 | 80.00 | 440.00 | 7610 | 2320 | HW040+NMRV-P110 | TH71A6 | - | - |
| 4.0 | 3.3 | 2000 | 5.50 | 80.00 | 440.00 | 6637 | 2320 | HW040+NMRV-P110 | TH63B4 | - | - |
| 2.5 | 2.8 | 3356 | 7.67 | 60.00 | 460.00 | 9379 | 2320 | HW040+NMRV-P110 | TH71A6 | - | - |
| 3.8 | 3.8 | 2236 | 7.67 | 60.00 | 460.00 | 8491 | 2320 | HW040+NMRV-P110 | TH63B4 | - | - |
| 2.5 | 1.6 | 3117 | 7.67 | 60.00 | 460.00 | 4973 | 1839 | HW040+NMRV-P090 | TH71A6 | - | - |
| 3.8 | 2.3 | 2081 | 7.67 | 60.00 | 460.00 | 4725 | 1839 | HW040+NMRV-P090 | TH63B4 | - | - |
| 2.4 | 1.1 | 3015 | 7.88 | 60.00 | 472.50 | 3382 | 1659 | HW030+NMRV-P075 | TH71A6 | - | - |
| 3.7 | 1.6 | 2014 | 7.88 | 60.00 | 472.50 | 3239 | 1659 | HW030+NMRV-P075 | TH63B4 | - | - |
| 3.7 | 1.0 | 1895 | 7.88 | 60.00 | 472.50 | 1896 | 1410 | HW030+NMRV-P063 | TH63B4 | - | - |
| 2.2 | 2.1 | 3810 | 8.75 | 60.00 | 525.00 | 8116 | 2320 | HW040+NMRV-P110 | TH71A6 | - | - |
| 3.3 | 3.2 | 2532 | 8.75 | 60.00 | 525.00 | 8008 | 2320 | HW040+NMRV-P110 | TH63B4 | - | - |
| 2.2 | 1.4 | 3538 | 8.75 | 60.00 | 525.00 | 5031 | 1839 | HW040+NMRV-P090 | TH71A6 | - | - |
| 3.3 | 2.0 | 2355 | 8.75 | 60.00 | 525.00 | 4811 | 1839 | HW040+NMRV-P090 | TH63B4 | - | - |
| 3.2 | 1.3 | 2402 | 10.83 | 50.00 | 541.67 | 3062 | 1659 | HW030+NMRV-P075 | TH63B4 | - | - |
| 1.9 | 1.9 | 4099 | 7.67 | 80.00 | 613.33 | 7885 | 2320 | HW040+NMRV-P110 | TH71A6 | - | - |
| 2.9 | 2.6 | 2726 | 7.67 | 80.00 | 613.33 | 7022 | 2320 | HW040+NMRV-P110 | TH63B4 | - | - |
| 1.9 | 1.1 | 3781 | 7.67 | 80.00 | 613.33 | 3980 | 1839 | HW040+NMRV-P090 | TH71A6 | - | - |
| 2.9 | 1.5 | 2519 | 7.67 | 80.00 | 613.33 | 3771 | 1839 | HW040+NMRV-P090 | TH63B4 | - | - |
| 2.7 | 1.2 | 2718 | 10.83 | 60.00 | 650.00 | 3352 | 1659 | HW030+NMRV-P075 | TH63B4 | - | - |
| 1.6 | 1.7 | 4656 | 8.75 | 80.00 | 700.00 | 7971 | 2320 | HW040+NMRV-P110 | TH71A6 | - | - |
| 2.5 | 2.3 | 3089 | 8.75 | 80.00 | 700.00 | 7143 | 2320 | HW040+NMRV-P110 | TH63B4 | - | - |
| 2.5 | 1.3 | 2853 | 8.75 | 80.00 | 700.00 | 3828 | 1839 | HW040+NMRV-P090 | TH63B4 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.25 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 1.5 | 1.4 | 4600 | 7.67 | 100.00 | 766.67 | 6608 | 2320 | HW040+NMRV-P110 | TH71A6 | - | - |
| 2.3 | 1.8 | 3081 | 7.67 | 100.00 | 766.67 | 5645 | 2320 | HW040+NMRV-P110 | TH63B4 | - | - |
| 2.3 | 1.1 | 2822 | 7.67 | 100.00 | 766.67 | 3110 | 1839 | HW040+NMRV-P090 | TH63B4 | - | - |
| 1.3 | 1.3 | 5217 | 8.75 | 100.00 | 875.00 | 6660 | 2320 | HW040+NMRV-P110 | TH71A6 | - | - |
| 2.0 | 1.6 | 3483 | 8.75 | 100.00 | 875.00 | 5681 | 2320 | HW040+NMRV-P110 | TH63B4 | - | - |

0.33 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 52.0 | 7.5 | 332 | 2.94 | 7.50 | 22.08 | 2506 | 961 | HW030+NMRV-P075 | TH71B6 | - | - |
| 52.0 | 5.3 | 334 | 2.94 | 7.50 | 22.08 | 1773 | 814 | HW030+NMRV-P063 | TH71B6 | - | - |
| 79.0 | 6.9 | 222 | 2.94 | 7.50 | 22.08 | 1538 | 706 | HW030+NMRV-P063 | TH63D4 | - | - |
| 79.0 | 6.9 | 222 | 2.94 | 7.50 | 22.08 | 1538 | 706 | HW030+NMRV-P063 | TH71A4 | - | - |
| 52.0 | 2.7 | 326 | 2.94 | 7.50 | 22.08 | 877 | 623 | HA31+NMRV050 | TH71B6 | - | - |
| 79.0 | 3.8 | 217 | 2.94 | 7.50 | 22.08 | 820 | 540 | HA31+NMRV050 | TH63D4 | - | - |
| 79.0 | 3.8 | 217 | 2.94 | 7.50 | 22.08 | 820 | 540 | HA31+NMRV050 | TH71A4 | - | - |
| 52.0 | 1.7 | 322 | 2.94 | 7.50 | 22.08 | 549 | 454 | HA31+NMRV040 | TH71B6 | - | - |
| 79.0 | 2.2 | 214 | 2.94 | 7.50 | 22.08 | 475 | 393 | HA31+NMRV040 | TH63D4 | - | - |
| 79.0 | 2.2 | 214 | 2.94 | 7.50 | 22.08 | 475 | 393 | HA31+NMRV040 | TH71A4 | - | - |
| 48.0 | 1.8 | 354 | 4.75 | 5.00 | 23.75 | 647 | 638 | HA31+NMRV050 | TH71B6 | - | - |
| 74.0 | 2.6 | 234 | 4.75 | 5.00 | 23.75 | 603 | 553 | HA31+NMRV050 | TH63D4 | - | - |
| 74.0 | 2.6 | 234 | 4.75 | 5.00 | 23.75 | 603 | 553 | HA31+NMRV050 | TH71A4 | - | - |
| 48.0 | 1.6 | 354 | 4.75 | 5.00 | 23.75 | 583 | 465 | HA31+NMRV040 | TH71B6 | - | - |
| 74.0 | 2.2 | 234 | 4.75 | 5.00 | 23.75 | 522 | 403 | HA31+NMRV040 | TH63D4 | - | - |
| 74.0 | 2.2 | 234 | 4.75 | 5.00 | 23.75 | 522 | 403 | HA31+NMRV040 | TH71A4 | - | - |
| 45.0 | 1.8 | 381 | 5.10 | 5.00 | 25.50 | 675 | 653 | HA31+NMRV050 | TH71B6 | - | - |
| 69.0 | 2.5 | 250 | 5.10 | 5.00 | 25.50 | 628 | 566 | HA31+NMRV050 | TH63D4 | - | - |
| 69.0 | 2.5 | 250 | 5.10 | 5.00 | 25.50 | 628 | 566 | HA31+NMRV050 | TH71A4 | - | - |
| 45.0 | 1.6 | 381 | 5.10 | 5.00 | 25.50 | 591 | 476 | HA31+NMRV040 | TH71B6 | - | - |
| 69.0 | 2.1 | 250 | 5.10 | 5.00 | 25.50 | 534 | 413 | HA31+NMRV040 | TH63D4 | - | - |
| 69.0 | 2.1 | 250 | 5.10 | 5.00 | 25.50 | 534 | 413 | HA31+NMRV040 | TH71A4 | - | - |
| 39.0 | 5.8 | 434 | 3.87 | 7.50 | 29.00 | 2498 | 1052 | HW030+NMRV-P075 | TH71B6 | - | - |
| 39.0 | 4.5 | 434 | 3.87 | 7.50 | 29.00 | 1941 | 891 | HW030+NMRV-P063 | TH71B6 | - | - |
| 60.0 | 5.9 | 287 | 3.87 | 7.50 | 29.00 | 1682 | 773 | HW030+NMRV-P063 | TH63D4 | - | - |
| 60.0 | 5.9 | 287 | 3.87 | 7.50 | 29.00 | 1682 | 773 | HW030+NMRV-P063 | TH71A4 | - | - |
| 39.0 | 2.5 | 424 | 2.94 | 10.00 | 29.44 | 1080 | 685 | HA31+NMRV050 | TH71B6 | - | - |
| 59.0 | 3.4 | 282 | 2.94 | 10.00 | 29.44 | 956 | 594 | HA31+NMRV050 | TH63D4 | - | - |
| 59.0 | 3.4 | 282 | 2.94 | 10.00 | 29.44 | 956 | 594 | HA31+NMRV050 | TH71A4 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.33 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 39.0 | 1.4 | 415 | 2.94 | 10.00 | 29.44 | 562 | 499 | HA31+NMRV040 | TH71B6 | - | - |
| 59.0 | 1.8 | 278 | 2.94 | 10.00 | 29.44 | 499 | 433 | HA31+NMRV040 | TH63D4 | - | - |
| 59.0 | 1.8 | 278 | 2.94 | 10.00 | 29.44 | 499 | 433 | HA31+NMRV040 | TH71A4 | - | - |
| 36.0 | 1.4 | 470 | 6.30 | 5.00 | 31.50 | 673 | 701 | HA31+NMRV050 | TH71B6 | - | - |
| 56.0 | 2.0 | 307 | 6.30 | 5.00 | 31.50 | 623 | 608 | HA31+NMRV050 | TH63D4 | - | - |
| 56.0 | 2.0 | 307 | 6.30 | 5.00 | 31.50 | 623 | 608 | HA31+NMRV050 | TH71A4 | - | - |
| 36.0 | 1.3 | 470 | 6.30 | 5.00 | 31.50 | 602 | 511 | HA31+NMRV040 | TH71B6 | - | - |
| 56.0 | 1.8 | 307 | 6.30 | 5.00 | 31.50 | 565 | 443 | HA31+NMRV040 | TH63D4 | - | - |
| 56.0 | 1.8 | 307 | 6.30 | 5.00 | 31.50 | 565 | 443 | HA31+NMRV040 | TH71A4 | - | - |
| 32.0 | 1.8 | 519 | 4.75 | 7.50 | 35.63 | 948 | 730 | HA31+NMRV050 | TH71B6 | - | - |
| 49.0 | 2.6 | 342 | 4.75 | 7.50 | 35.63 | 883 | 633 | HA31+NMRV050 | TH63D4 | - | - |
| 49.0 | 2.6 | 342 | 4.75 | 7.50 | 35.63 | 883 | 633 | HA31+NMRV050 | TH71A4 | - | - |
| 32.0 | 1.2 | 512 | 4.75 | 7.50 | 35.63 | 618 | 532 | HA31+NMRV040 | TH71B6 | - | - |
| 49.0 | 1.7 | 338 | 4.75 | 7.50 | 35.63 | 558 | 461 | HA31+NMRV040 | TH63D4 | - | - |
| 49.0 | 1.7 | 338 | 4.75 | 7.50 | 35.63 | 558 | 461 | HA31+NMRV040 | TH71A4 | - | - |
| 29.0 | 5.1 | 558 | 3.87 | 10.00 | 38.67 | 2848 | 1158 | HW030+NMRV-P075 | TH71B6 | - | - |
| 45.0 | 6.7 | 370 | 3.87 | 10.00 | 38.67 | 2469 | 1004 | HW030+NMRV-P075 | TH63D4 | - | - |
| 45.0 | 6.7 | 370 | 3.87 | 10.00 | 38.67 | 2469 | 1004 | HW030+NMRV-P075 | TH71A4 | - | - |
| 29.0 | 3.5 | 552 | 3.87 | 10.00 | 38.67 | 1951 | 981 | HW030+NMRV-P063 | TH71B6 | - | - |
| 45.0 | 4.6 | 365 | 3.87 | 10.00 | 38.67 | 1692 | 851 | HW030+NMRV-P063 | TH63D4 | - | - |
| 45.0 | 4.6 | 365 | 3.87 | 10.00 | 38.67 | 1692 | 851 | HW030+NMRV-P063 | TH71A4 | - | - |
| 28.0 | 1.7 | 596 | 5.45 | 7.50 | 40.91 | 987 | 765 | HA31+NMRV050 | TH71B6 | - | - |
| 43.0 | 2.3 | 391 | 5.45 | 7.50 | 40.91 | 918 | 663 | HA31+NMRV050 | TH63D4 | - | - |
| 43.0 | 2.3 | 391 | 5.45 | 7.50 | 40.91 | 918 | 663 | HA31+NMRV050 | TH71A4 | - | - |
| 28.0 | 1.1 | 588 | 5.45 | 7.50 | 40.91 | 633 | 557 | HA31+NMRV040 | TH71B6 | - | - |
| 43.0 | 1.5 | 386 | 5.45 | 7.50 | 40.91 | 580 | 483 | HA31+NMRV040 | TH63D4 | - | - |
| 43.0 | 1.5 | 386 | 5.45 | 7.50 | 40.91 | 580 | 483 | HA31+NMRV040 | TH71A4 | - | - |
| 27.0 | 7.1 | 620 | 4.20 | 10.00 | 42.00 | 4392 | 1317 | HW040+NMRV-P090 | TH71B6 | - | - |
| 27.0 | 7.1 | 620 | 4.20 | 10.00 | 42.00 | 4392 | 1665 | HW040+NMRV-P110 | TH71B6 | - | - |
| 26.0 | 5.0 | 615 | 2.94 | 15.00 | 44.17 | 3065 | 1211 | HW030+NMRV-P075 | TH71B6 | - | - |
| 40.0 | 6.4 | 412 | 2.94 | 15.00 | 44.17 | 2658 | 1049 | HW030+NMRV-P075 | TH63D4 | - | - |
| 40.0 | 6.4 | 412 | 2.94 | 15.00 | 44.17 | 2658 | 1049 | HW030+NMRV-P075 | TH71A4 | - | - |
| 26.0 | 3.2 | 599 | 2.94 | 15.00 | 44.17 | 1928 | 1026 | HW030+NMRV-P063 | TH71B6 | - | - |
| 40.0 | 4.2 | 402 | 2.94 | 15.00 | 44.17 | 1672 | 889 | HW030+NMRV-P063 | TH63D4 | - | - |
| 40.0 | 4.2 | 402 | 2.94 | 15.00 | 44.17 | 1672 | 889 | HW030+NMRV-P063 | TH71A4 | - | - |
| 26.0 | 1.8 | 591 | 2.94 | 15.00 | 44.17 | 1073 | 785 | HA31+NMRV050 | TH71B6 | - | - |
| 40.0 | 2.4 | 397 | 2.94 | 15.00 | 44.17 | 956 | 680 | HA31+NMRV050 | TH63D4 | - | - |
| 40.0 | 2.4 | 397 | 2.94 | 15.00 | 44.17 | 956 | 680 | HA31+NMRV050 | TH71A4 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.33 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 40.0 | 1.3 | 392 | 2.94 | 15.00 | 44.17 | 517 | 496 | HA31+NMRV040 | TH63D4 | - | - |
| 40.0 | 1.3 | 392 | 2.94 | 15.00 | 44.17 | 517 | 496 | HA31+NMRV040 | TH71A4 | - | - |
| 24.0 | 8.0 | 663 | 3.11 | 15.00 | 46.58 | 5288 | 1364 | HW040+NMRV-P090 | TH71B6 | - | - |
| 24.0 | 4.5 | 682 | 4.75 | 10.00 | 47.50 | 3051 | 1240 | HW030+NMRV-P075 | TH71B6 | - | - |
| 37.0 | 5.9 | 450 | 4.75 | 10.00 | 47.50 | 2646 | 1075 | HW030+NMRV-P075 | TH63D4 | - | - |
| 37.0 | 5.9 | 450 | 4.75 | 10.00 | 47.50 | 2646 | 1075 | HW030+NMRV-P075 | TH71A4 | - | - |
| 24.0 | 3.1 | 674 | 4.75 | 10.00 | 47.50 | 2091 | 1051 | HW030+NMRV-P063 | TH71B6 | - | - |
| 37.0 | 4.1 | 445 | 4.75 | 10.00 | 47.50 | 1813 | 911 | HW030+NMRV-P063 | TH63D4 | - | - |
| 37.0 | 4.1 | 445 | 4.75 | 10.00 | 47.50 | 1813 | 911 | HW030+NMRV-P063 | TH71A4 | - | - |
| 24.0 | 1.8 | 675 | 4.75 | 10.00 | 47.50 | 1184 | 804 | HA31+NMRV050 | TH71B6 | - | - |
| 37.0 | 2.5 | 445 | 4.75 | 10.00 | 47.50 | 1093 | 697 | HA31+NMRV050 | TH63D4 | - | - |
| 37.0 | 2.5 | 445 | 4.75 | 10.00 | 47.50 | 1093 | 697 | HA31+NMRV050 | TH71A4 | - | - |
| 37.0 | 1.3 | 435 | 4.75 | 10.00 | 47.50 | 569 | 508 | HA31+NMRV040 | TH63D4 | - | - |
| 37.0 | 1.3 | 435 | 4.75 | 10.00 | 47.50 | 569 | 508 | HA31+NMRV040 | TH71A4 | - | - |
| 21.0 | 1.6 | 775 | 5.45 | 10.00 | 54.55 | 1206 | 842 | HA31+NMRV050 | TH71B6 | - | - |
| 32.0 | 2.2 | 508 | 5.45 | 10.00 | 54.55 | 1127 | 730 | HA31+NMRV050 | TH63D4 | - | - |
| 32.0 | 2.2 | 508 | 5.45 | 10.00 | 54.55 | 1127 | 730 | HA31+NMRV050 | TH71A4 | - | - |
| 32.0 | 1.2 | 497 | 5.45 | 10.00 | 54.55 | 586 | 532 | HA31+NMRV040 | TH63D4 | - | - |
| 32.0 | 1.2 | 497 | 5.45 | 10.00 | 54.55 | 586 | 532 | HA31+NMRV040 | TH71A4 | - | - |
| 20.0 | 4.2 | 797 | 3.87 | 15.00 | 58.00 | 3355 | 1326 | HW030+NMRV-P075 | TH71B6 | - | - |
| 30.0 | 5.5 | 531 | 3.87 | 15.00 | 58.00 | 2909 | 1149 | HW030+NMRV-P075 | TH63D4 | - | - |
| 30.0 | 5.5 | 531 | 3.87 | 15.00 | 58.00 | 2909 | 1149 | HW030+NMRV-P075 | TH71A4 | - | - |
| 20.0 | 2.7 | 776 | 3.87 | 15.00 | 58.00 | 2110 | 1123 | HW030+NMRV-P063 | TH71B6 | - | - |
| 30.0 | 3.5 | 517 | 3.87 | 15.00 | 58.00 | 1829 | 974 | HW030+NMRV-P063 | TH63D4 | - | - |
| 30.0 | 3.5 | 517 | 3.87 | 15.00 | 58.00 | 1829 | 974 | HW030+NMRV-P063 | TH71A4 | - | - |
| 19.0 | 1.3 | 749 | 2.94 | 20.00 | 58.89 | 952 | 864 | HA31+NMRV050 | TH71B6 | - | - |
| 30.0 | 1.7 | 508 | 2.94 | 20.00 | 58.89 | 850 | 749 | HA31+NMRV050 | TH63D4 | - | - |
| 30.0 | 1.7 | 508 | 2.94 | 20.00 | 58.89 | 850 | 749 | HA31+NMRV050 | TH71A4 | - | - |
| 18.0 | 6.6 | 886 | 4.20 | 15.00 | 63.00 | 5847 | 1508 | HW040+NMRV-P090 | TH71B6 | - | - |
| 18.0 | 1.4 | 895 | 6.30 | 10.00 | 63.00 | 1213 | 883 | HA31+NMRV050 | TH71B6 | - | - |
| 28.0 | 2.0 | 585 | 6.30 | 10.00 | 63.00 | 1157 | 766 | HA31+NMRV050 | TH63D4 | - | - |
| 28.0 | 2.0 | 585 | 6.30 | 10.00 | 63.00 | 1157 | 766 | HA31+NMRV050 | TH71A4 | - | - |
| 28.0 | 1.1 | 570 | 6.30 | 10.00 | 63.00 | 601 | 558 | HA31+NMRV040 | TH63D4 | - | - |
| 28.0 | 1.1 | 570 | 6.30 | 10.00 | 63.00 | 601 | 558 | HA31+NMRV040 | TH71A4 | - | - |
| 16.0 | 3.7 | 972 | 4.75 | 15.00 | 71.25 | 3595 | 1420 | HW030+NMRV-P075 | TH71B6 | - | - |
| 25.0 | 4.8 | 645 | 4.75 | 15.00 | 71.25 | 3117 | 1231 | HW030+NMRV-P075 | TH63D4 | - | - |
| 25.0 | 4.8 | 645 | 4.75 | 15.00 | 71.25 | 3117 | 1231 | HW030+NMRV-P075 | TH71A4 | - | - |
| 16.0 | 2.4 | 946 | 4.75 | 15.00 | 71.25 | 2261 | 1203 | HW030+NMRV-P063 | TH71B6 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.33 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 25.0 | 3.1 | 628 | 4.75 | 15.00 | 71.25 | 1960 | 1043 | HW030+NMRV-P063 | TH63D4 | - | - |
| 25.0 | 3.1 | 628 | 4.75 | 15.00 | 71.25 | 1960 | 1043 | HW030+NMRV-P063 | TH71A4 | - | - |
| 16.0 | 1.2 | 935 | 4.75 | 15.00 | 71.25 | 1169 | 920 | HA31+NMRV050 | TH71B6 | - | - |
| 25.0 | 1.8 | 620 | 4.75 | 15.00 | 71.25 | 1086 | 798 | HA31+NMRV050 | TH63D4 | - | - |
| 25.0 | 1.8 | 620 | 4.75 | 15.00 | 71.25 | 1086 | 798 | HA31+NMRV050 | TH71A4 | - | - |
| 15.0 | 3.6 | 1009 | 3.87 | 20.00 | 77.33 | 3623 | 1459 | HW030+NMRV-P075 | TH71B6 | - | - |
| 23.0 | 4.5 | 677 | 3.87 | 20.00 | 77.33 | 3057 | 1265 | HW030+NMRV-P075 | TH63D4 | - | - |
| 23.0 | 4.5 | 677 | 3.87 | 20.00 | 77.33 | 3057 | 1265 | HW030+NMRV-P075 | TH71A4 | - | - |
| 15.0 | 2.2 | 981 | 3.87 | 20.00 | 77.33 | 2153 | 1236 | HW030+NMRV-P063 | TH71B6 | - | - |
| 23.0 | 2.8 | 659 | 3.87 | 20.00 | 77.33 | 1816 | 1072 | HW030+NMRV-P063 | TH63D4 | - | - |
| 23.0 | 2.8 | 659 | 3.87 | 20.00 | 77.33 | 1816 | 1072 | HW030+NMRV-P063 | TH71A4 | - | - |
| 15.0 | 4.9 | 1022 | 3.11 | 25.00 | 77.63 | 4992 | 1617 | HW040+NMRV-P090 | TH71B6 | - | - |
| 23.0 | 5.7 | 685 | 3.11 | 25.00 | 77.63 | 3927 | 1401 | HW040+NMRV-P090 | TH63D4 | - | - |
| 23.0 | 5.7 | 685 | 3.11 | 25.00 | 77.63 | 3927 | 1401 | HW040+NMRV-P090 | TH71A4 | - | - |
| 14.0 | 1.1 | 1119 | 7.88 | 10.00 | 78.75 | 1213 | 952 | HA31+NMRV050 | TH71B6 | - | - |
| 22.0 | 1.5 | 729 | 7.88 | 10.00 | 78.75 | 1128 | 825 | HA31+NMRV050 | TH63D4 | - | - |
| 22.0 | 1.5 | 729 | 7.88 | 10.00 | 78.75 | 1128 | 825 | HA31+NMRV050 | TH71A4 | - | - |
| 14.0 | 3.3 | 1111 | 5.45 | 15.00 | 81.82 | 3658 | 1487 | HW030+NMRV-P075 | TH71B6 | - | - |
| 21.0 | 4.4 | 736 | 5.45 | 15.00 | 81.82 | 3264 | 1289 | HW030+NMRV-P075 | TH63D4 | - | - |
| 21.0 | 4.4 | 736 | 5.45 | 15.00 | 81.82 | 3264 | 1289 | HW030+NMRV-P075 | TH71A4 | - | - |
| 14.0 | 2.2 | 1082 | 5.45 | 15.00 | 81.82 | 2367 | 1260 | HW030+NMRV-P063 | TH71B6 | - | - |
| 21.0 | 2.9 | 716 | 5.45 | 15.00 | 81.82 | 2053 | 1092 | HW030+NMRV-P063 | TH63D4 | - | - |
| 21.0 | 2.9 | 716 | 5.45 | 15.00 | 81.82 | 2053 | 1092 | HW030+NMRV-P063 | TH71A4 | - | - |
| 14.0 | 7.1 | 1166 | 4.20 | 20.00 | 84.00 | 8279 | 2097 | HW040+NMRV-P110 | TH71B6 | - | - |
| 14.0 | 4.9 | 1136 | 4.20 | 20.00 | 84.00 | 5608 | 1660 | HW040+NMRV-P090 | TH71B6 | - | - |
| 21.0 | 6.4 | 755 | 4.20 | 20.00 | 84.00 | 4862 | 1439 | HW040+NMRV-P090 | TH63D4 | - | - |
| 21.0 | 6.4 | 755 | 4.20 | 20.00 | 84.00 | 4862 | 1439 | HW040+NMRV-P090 | TH71A4 | - | - |
| 13.0 | 3.2 | 1044 | 2.94 | 30.00 | 88.33 | 3313 | 1525 | HW030+NMRV-P075 | TH71B6 | - | - |
| 20.0 | 4.0 | 710 | 2.94 | 30.00 | 88.33 | 2873 | 1322 | HW030+NMRV-P075 | TH63D4 | - | - |
| 20.0 | 4.0 | 710 | 2.94 | 30.00 | 88.33 | 2873 | 1322 | HW030+NMRV-P075 | TH71A4 | - | - |
| 13.0 | 2.1 | 997 | 2.94 | 30.00 | 88.33 | 2051 | 1292 | HW030+NMRV-P063 | TH71B6 | - | - |
| 20.0 | 2.6 | 679 | 2.94 | 30.00 | 88.33 | 1778 | 1120 | HW030+NMRV-P063 | TH63D4 | - | - |
| 20.0 | 2.6 | 679 | 2.94 | 30.00 | 88.33 | 1778 | 1120 | HW030+NMRV-P063 | TH71A4 | - | - |
| 13.0 | 1.1 | 981 | 2.94 | 30.00 | 88.33 | 1107 | 989 | HA31+NMRV050 | TH71B6 | - | - |
| 20.0 | 1.4 | 668 | 2.94 | 30.00 | 88.33 | 960 | 857 | HA31+NMRV050 | TH63D4 | - | - |
| 20.0 | 1.4 | 668 | 2.94 | 30.00 | 88.33 | 960 | 857 | HA31+NMRV050 | TH71A4 | - | - |
| 12.0 | 5.0 | 1147 | 3.11 | 30.00 | 93.16 | 5680 | 1718 | HW040+NMRV-P090 | TH71B6 | - | - |
| 19.0 | 6.3 | 777 | 3.11 | 30.00 | 93.16 | 4924 | 1489 | HW040+NMRV-P090 | TH63D4 | - | - |

0.33 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 19.0 | 6.3 | 777 | 3.11 | 30.00 | 93.16 | 4924 | 1489 | HW040+NMRV-P090 | TH71A4 | - | - |
| 19.0 | 1.4 | 811 | 6.30 | 15.00 | 94.50 | 1144 | 877 | HA31+NMRV050 | TH63D4 | - | - |
| 19.0 | 1.4 | 811 | 6.30 | 15.00 | 94.50 | 1144 | 877 | HA31+NMRV050 | TH71A4 | - | - |
| 12.0 | 3.1 | 1227 | 4.75 | 20.00 | 95.00 | 3857 | 1563 | HW030+NMRV-P075 | TH71B6 | - | - |
| 18.0 | 4.1 | 819 | 4.75 | 20.00 | 95.00 | 3366 | 1355 | HW030+NMRV-P075 | TH63D4 | - | - |
| 18.0 | 4.1 | 819 | 4.75 | 20.00 | 95.00 | 3366 | 1355 | HW030+NMRV-P075 | TH71A4 | - | - |
| 12.0 | 1.9 | 1193 | 4.75 | 20.00 | 95.00 | 2271 | 1324 | HW030+NMRV-P063 | TH71B6 | - | - |
| 18.0 | 2.5 | 796 | 4.75 | 20.00 | 95.00 | 1997 | 1148 | HW030+NMRV-P063 | TH63D4 | - | - |
| 18.0 | 2.5 | 796 | 4.75 | 20.00 | 95.00 | 1997 | 1148 | HW030+NMRV-P063 | TH71A4 | - | - |
| 17.0 | 1.2 | 839 | 5.10 | 20.00 | 102.00 | 978 | 899 | HA31+NMRV050 | TH63D4 | - | - |
| 17.0 | 1.2 | 839 | 5.10 | 20.00 | 102.00 | 978 | 899 | HA31+NMRV050 | TH71A4 | - | - |
| 11.0 | 7.1 | 1420 | 4.20 | 25.00 | 105.00 | 10083 | 2259 | HW040+NMRV-P110 | TH71B6 | - | - |
| 10.0 | 2.8 | 1401 | 5.45 | 20.00 | 109.09 | 3973 | 1636 | HW030+NMRV-P075 | TH71B6 | - | - |
| 16.0 | 3.8 | 932 | 5.45 | 20.00 | 109.09 | 3525 | 1419 | HW030+NMRV-P075 | TH63D4 | - | - |
| 16.0 | 3.8 | 932 | 5.45 | 20.00 | 109.09 | 3525 | 1419 | HW030+NMRV-P075 | TH71A4 | - | - |
| 10.0 | 1.7 | 1362 | 5.45 | 20.00 | 109.09 | 2337 | 1386 | HW030+NMRV-P063 | TH71B6 | - | - |
| 16.0 | 2.3 | 906 | 5.45 | 20.00 | 109.09 | 2099 | 1202 | HW030+NMRV-P063 | TH63D4 | - | - |
| 16.0 | 2.3 | 906 | 5.45 | 20.00 | 109.09 | 2099 | 1202 | HW030+NMRV-P063 | TH71A4 | - | - |
| 16.0 | 1.1 | 894 | 5.45 | 20.00 | 109.09 | 991 | 919 | HA31+NMRV050 | TH63D4 | - | - |
| 16.0 | 1.1 | 894 | 5.45 | 20.00 | 109.09 | 991 | 919 | HA31+NMRV050 | TH71A4 | - | - |
| 10.0 | 4.2 | 1474 | 5.50 | 20.00 | 110.00 | 6135 | 1816 | HW040+NMRV-P090 | TH71B6 | - | - |
| 16.0 | 5.5 | 976 | 5.50 | 20.00 | 110.00 | 5319 | 1574 | HW040+NMRV-P090 | TH63D4 | - | - |
| 16.0 | 5.5 | 976 | 5.50 | 20.00 | 110.00 | 5319 | 1574 | HW040+NMRV-P090 | TH71A4 | - | - |
| 10.0 | 2.7 | 1346 | 3.87 | 30.00 | 116.00 | 3626 | 1659 | HW030+NMRV-P075 | TH71B6 | - | - |
| 15.0 | 3.5 | 906 | 3.87 | 30.00 | 116.00 | 3144 | 1448 | HW030+NMRV-P075 | TH63D4 | - | - |
| 15.0 | 3.5 | 906 | 3.87 | 30.00 | 116.00 | 3144 | 1448 | HW030+NMRV-P075 | TH71A4 | - | - |
| 10.0 | 1.5 | 1547 | 7.88 | 15.00 | 118.13 | 2330 | 1410 | HW030+NMRV-P063 | TH71B6 | - | - |
| 15.0 | 2.3 | 1020 | 7.88 | 15.00 | 118.13 | 2320 | 1234 | HW030+NMRV-P063 | TH63D4 | - | - |
| 15.0 | 2.3 | 1020 | 7.88 | 15.00 | 118.13 | 2320 | 1234 | HW030+NMRV-P063 | TH71A4 | - | - |
| 15.0 | 1.2 | 1010 | 7.88 | 15.00 | 118.13 | 1180 | 944 | HA31+NMRV050 | TH63D4 | - | - |
| 15.0 | 1.2 | 1010 | 7.88 | 15.00 | 118.13 | 1180 | 944 | HA31+NMRV050 | TH71A4 | - | - |
| 9.0 | 7.2 | 1524 | 4.20 | 30.00 | 126.00 | 10901 | 2320 | HW040+NMRV-P110 | TH71B6 | - | - |
| 9.0 | 4.1 | 1523 | 4.20 | 30.00 | 126.00 | 6281 | 1839 | HW040+NMRV-P090 | TH71B6 | - | - |
| 14.0 | 5.3 | 1022 | 4.20 | 30.00 | 126.00 | 5445 | 1647 | HW040+NMRV-P090 | TH63D4 | - | - |
| 14.0 | 5.3 | 1022 | 4.20 | 30.00 | 126.00 | 5445 | 1647 | HW040+NMRV-P090 | TH71A4 | - | - |
| 8.0 | 2.1 | 1677 | 5.45 | 25.00 | 136.36 | 3551 | 1659 | HW030+NMRV-P075 | TH71B6 | - | - |
| 13.0 | 2.8 | 1117 | 5.45 | 25.00 | 136.36 | 3183 | 1528 | HW030+NMRV-P075 | TH63D4 | - | - |
| 13.0 | 2.8 | 1117 | 5.45 | 25.00 | 136.36 | 3183 | 1528 | HW030+NMRV-P075 | TH71A4 | - | - |

0.33 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 8.0 | 1.3 | 1628 | 5.45 | 25.00 | 136.36 | 2123 | 1410 | HW030+NMRV-P063 | TH71B6 | - | - |
| 13.0 | 1.8 | 1085 | 5.45 | 25.00 | 136.36 | 1913 | 1295 | HW030+NMRV-P063 | TH63D4 | - | - |
| 13.0 | 1.8 | 1085 | 5.45 | 25.00 | 136.36 | 1913 | 1295 | HW030+NMRV-P063 | TH71A4 | - | - |
| 8.0 | 4.6 | 1842 | 5.50 | 25.00 | 137.50 | 8475 | 2320 | HW040+NMRV-P110 | TH71B6 | - | - |
| 13.0 | 6.8 | 1220 | 5.50 | 25.00 | 137.50 | 8302 | 2143 | HW040+NMRV-P110 | TH63D4 | - | - |
| 13.0 | 6.8 | 1220 | 5.50 | 25.00 | 137.50 | 8302 | 2143 | HW040+NMRV-P110 | TH71A4 | - | - |
| 8.0 | 3.4 | 1768 | 5.50 | 25.00 | 137.50 | 5925 | 1839 | HW040+NMRV-P090 | TH71B6 | - | - |
| 13.0 | 4.5 | 1171 | 5.50 | 25.00 | 137.50 | 5235 | 1696 | HW040+NMRV-P090 | TH63D4 | - | - |
| 13.0 | 4.5 | 1171 | 5.50 | 25.00 | 137.50 | 5235 | 1696 | HW040+NMRV-P090 | TH71A4 | - | - |
| 8.0 | 2.4 | 1635 | 4.75 | 30.00 | 142.50 | 3886 | 1659 | HW030+NMRV-P075 | TH71B6 | - | - |
| 12.0 | 3.1 | 1095 | 4.75 | 30.00 | 142.50 | 3369 | 1551 | HW030+NMRV-P075 | TH63D4 | - | - |
| 12.0 | 3.1 | 1095 | 4.75 | 30.00 | 142.50 | 3369 | 1551 | HW030+NMRV-P075 | TH71A4 | - | - |
| 8.0 | 1.5 | 1558 | 4.75 | 30.00 | 142.50 | 2405 | 1410 | HW030+NMRV-P063 | TH71B6 | - | - |
| 12.0 | 2.0 | 1044 | 4.75 | 30.00 | 142.50 | 2085 | 1314 | HW030+NMRV-P063 | TH63D4 | - | - |
| 12.0 | 2.0 | 1044 | 4.75 | 30.00 | 142.50 | 2085 | 1314 | HW030+NMRV-P063 | TH71A4 | - | - |
| 12.0 | 1.1 | 1028 | 4.75 | 30.00 | 142.50 | 1124 | 1005 | HA31+NMRV050 | TH63D4 | - | - |
| 12.0 | 1.1 | 1028 | 4.75 | 30.00 | 142.50 | 1124 | 1005 | HA31+NMRV050 | TH71A4 | - | - |
| 7.0 | 2.1 | 1656 | 3.87 | 40.00 | 154.67 | 3554 | 1659 | HW030+NMRV-P075 | TH71B6 | - | - |
| 11.0 | 2.8 | 1118 | 3.87 | 40.00 | 154.67 | 3081 | 1594 | HW030+NMRV-P075 | TH63D4 | - | - |
| 11.0 | 2.8 | 1118 | 3.87 | 40.00 | 154.67 | 3081 | 1594 | HW030+NMRV-P075 | TH71A4 | - | - |
| 7.0 | 4.9 | 1773 | 3.11 | 50.00 | 155.26 | 8755 | 2320 | HW040+NMRV-P110 | TH71B6 | - | - |
| 11.0 | 6.1 | 1204 | 3.11 | 50.00 | 155.26 | 7326 | 2231 | HW040+NMRV-P110 | TH71A4 | - | - |
| 7.0 | 2.9 | 1669 | 3.11 | 50.00 | 155.26 | 4874 | 1839 | HW040+NMRV-P090 | TH71B6 | - | - |
| 11.0 | 3.6 | 1146 | 3.11 | 50.00 | 155.26 | 4139 | 1766 | HW040+NMRV-P090 | TH63D4 | - | - |
| 11.0 | 3.6 | 1146 | 3.11 | 50.00 | 155.26 | 4139 | 1766 | HW040+NMRV-P090 | TH71A4 | - | - |
| 7.0 | 1.3 | 1942 | 7.88 | 20.00 | 157.50 | 2479 | 1410 | HW030+NMRV-P063 | TH71B6 | - | - |
| 11.0 | 1.8 | 1284 | 7.88 | 20.00 | 157.50 | 2308 | 1358 | HW030+NMRV-P063 | TH63D4 | - | - |
| 11.0 | 1.8 | 1284 | 7.88 | 20.00 | 157.50 | 2308 | 1358 | HW030+NMRV-P063 | TH71A4 | - | - |
| 7.0 | 2.2 | 1866 | 5.45 | 30.00 | 163.64 | 4069 | 1659 | HW030+NMRV-P075 | TH71B6 | - | - |
| 11.0 | 2.8 | 1245 | 5.45 | 30.00 | 163.64 | 3528 | 1624 | HW030+NMRV-P075 | TH63D4 | - | - |
| 11.0 | 2.8 | 1245 | 5.45 | 30.00 | 163.64 | 3528 | 1624 | HW030+NMRV-P075 | TH71A4 | - | - |
| 7.0 | 1.4 | 1778 | 5.45 | 30.00 | 163.64 | 2519 | 1410 | HW030+NMRV-P063 | TH71B6 | - | - |
| 11.0 | 1.8 | 1187 | 5.45 | 30.00 | 163.64 | 2184 | 1376 | HW030+NMRV-P063 | TH63D4 | - | - |
| 11.0 | 1.8 | 1187 | 5.45 | 30.00 | 163.64 | 2184 | 1376 | HW030+NMRV-P063 | TH71A4 | - | - |
| 11.0 | 1.0 | 1168 | 5.45 | 30.00 | 163.64 | 1169 | 1053 | HA31+NMRV050 | TH63D4 | - | - |
| 11.0 | 1.0 | 1168 | 5.45 | 30.00 | 163.64 | 1169 | 1053 | HA31+NMRV050 | TH71A4 | - | - |
| 7.0 | 3.5 | 1970 | 5.50 | 30.00 | 165.00 | 6871 | 1839 | HW040+NMRV-P090 | TH71B6 | - | - |
| 11.0 | 4.5 | 1312 | 5.50 | 30.00 | 165.00 | 5957 | 1802 | HW040+NMRV-P090 | TH63D4 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.33 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 11.0 | 4.5 | 1312 | 5.50 | 30.00 | 165.00 | 5957 | 1802 | HW040+NMRV-P090 | TH71A4 | - | - |
| 7.0 | 5.4 | 1972 | 4.20 | 40.00 | 168.00 | 10558 | 2320 | HW040+NMRV-P110 | TH71B6 | - | - |
| 10.0 | 6.8 | 1331 | 4.20 | 40.00 | 168.00 | 8990 | 2291 | HW040+NMRV-P110 | TH71A4 | - | - |
| 6.0 | 1.7 | 1687 | 2.94 | 60.00 | 176.67 | 2900 | 1659 | HW030+NMRV-P075 | TH71B6 | - | - |
| 10.0 | 2.1 | 1169 | 2.94 | 60.00 | 176.67 | 2492 | 1659 | HW030+NMRV-P075 | TH63D4 | - | - |
| 10.0 | 2.1 | 1169 | 2.94 | 60.00 | 176.67 | 2492 | 1659 | HW030+NMRV-P075 | TH71A4 | - | - |
| 6.0 | 1.1 | 1592 | 2.94 | 60.00 | 176.67 | 1716 | 1410 | HW030+NMRV-P063 | TH71B6 | - | - |
| 10.0 | 1.3 | 1107 | 2.94 | 60.00 | 176.67 | 1490 | 1410 | HW030+NMRV-P063 | TH63D4 | - | - |
| 10.0 | 1.3 | 1107 | 2.94 | 60.00 | 176.67 | 1490 | 1410 | HW030+NMRV-P063 | TH71A4 | - | - |
| 6.0 | 3.8 | 2003 | 3.11 | 60.00 | 186.32 | 7684 | 2320 | HW040+NMRV-P110 | TH71B6 | - | - |
| 9.0 | 4.8 | 1375 | 3.11 | 60.00 | 186.32 | 6543 | 2320 | HW040+NMRV-P110 | TH71A4 | - | - |
| 6.0 | 2.3 | 1869 | 3.11 | 60.00 | 186.32 | 4301 | 1839 | HW040+NMRV-P090 | TH71B6 | - | - |
| 9.0 | 2.9 | 1288 | 3.11 | 60.00 | 186.32 | 3700 | 1839 | HW040+NMRV-P090 | TH63D4 | - | - |
| 9.0 | 2.9 | 1288 | 3.11 | 60.00 | 186.32 | 3700 | 1839 | HW040+NMRV-P090 | TH71A4 | - | - |
| 6.0 | 1.5 | 2392 | 7.88 | 25.00 | 196.88 | 3608 | 1659 | HW030+NMRV-P075 | TH71B6 | - | - |
| 9.0 | 2.2 | 1583 | 7.88 | 25.00 | 196.88 | 3508 | 1659 | HW030+NMRV-P075 | TH63D4 | - | - |
| 9.0 | 2.2 | 1583 | 7.88 | 25.00 | 196.88 | 3508 | 1659 | HW030+NMRV-P075 | TH71A4 | - | - |
| 9.0 | 1.4 | 1536 | 7.88 | 25.00 | 196.88 | 2098 | 1410 | HW030+NMRV-P063 | TH63D4 | - | - |
| 9.0 | 1.4 | 1536 | 7.88 | 25.00 | 196.88 | 2098 | 1410 | HW030+NMRV-P063 | TH71A4 | - | - |
| 5.0 | 1.7 | 2292 | 5.45 | 40.00 | 218.18 | 3835 | 1659 | HW030+NMRV-P075 | TH71B6 | - | - |
| 8.0 | 2.3 | 1532 | 5.45 | 40.00 | 218.18 | 3457 | 1659 | HW030+NMRV-P075 | TH63D4 | - | - |
| 8.0 | 2.3 | 1532 | 5.45 | 40.00 | 218.18 | 3457 | 1659 | HW030+NMRV-P075 | TH71A4 | - | - |
| 5.0 | 1.1 | 2169 | 5.45 | 40.00 | 218.18 | 2321 | 1410 | HW030+NMRV-P063 | TH71B6 | - | - |
| 8.0 | 1.4 | 1460 | 5.45 | 40.00 | 218.18 | 2115 | 1410 | HW030+NMRV-P063 | TH63D4 | - | - |
| 8.0 | 1.4 | 1460 | 5.45 | 40.00 | 218.18 | 2115 | 1410 | HW030+NMRV-P063 | TH71A4 | - | - |
| 5.0 | 4.4 | 2542 | 5.50 | 40.00 | 220.00 | 11144 | 2320 | HW040+NMRV-P110 | TH71B6 | - | - |
| 8.0 | 5.8 | 1703 | 5.50 | 40.00 | 220.00 | 9867 | 2320 | HW040+NMRV-P110 | TH63D4 | - | - |
| 8.0 | 5.8 | 1703 | 5.50 | 40.00 | 220.00 | 9867 | 2320 | HW040+NMRV-P110 | TH71A4 | - | - |
| 5.0 | 2.6 | 2429 | 5.50 | 40.00 | 220.00 | 6265 | 1839 | HW040+NMRV-P090 | TH71B6 | - | - |
| 8.0 | 3.4 | 1621 | 5.50 | 40.00 | 220.00 | 5432 | 1839 | HW040+NMRV-P090 | TH63D4 | - | - |
| 8.0 | 3.4 | 1621 | 5.50 | 40.00 | 220.00 | 5432 | 1839 | HW040+NMRV-P090 | TH71A4 | - | - |
| 4.8 | 1.5 | 2658 | 7.88 | 30.00 | 236.25 | 4012 | 1659 | HW030+NMRV-P075 | TH71B6 | - | - |
| 7.0 | 2.3 | 1761 | 7.88 | 30.00 | 236.25 | 3987 | 1659 | HW030+NMRV-P075 | TH63D4 | - | - |
| 7.0 | 2.3 | 1761 | 7.88 | 30.00 | 236.25 | 3987 | 1659 | HW030+NMRV-P075 | TH71A4 | - | - |
| 4.8 | 1.1 | 2530 | 7.88 | 30.00 | 236.25 | 2846 | 1410 | HW030+NMRV-P063 | TH71B6 | - | - |
| 7.0 | 1.5 | 1678 | 7.88 | 30.00 | 236.25 | 2468 | 1410 | HW030+NMRV-P063 | TH63D4 | - | - |
| 7.0 | 1.5 | 1678 | 7.88 | 30.00 | 236.25 | 2468 | 1410 | HW030+NMRV-P063 | TH71A4 | - | - |
| 4.5 | 3.3 | 2641 | 4.20 | 60.00 | 252.00 | 8701 | 2320 | HW040+NMRV-P110 | TH71B6 | - | - |

0.33 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 7.0 | 4.1 | 1791 | 4.20 | 60.00 | 252.00 | 7396 | 2320 | HW040+NMRV-P110 | TH71A4 | - | - |
| 4.5 | 1.9 | 2460 | 4.20 | 60.00 | 252.00 | 4593 | 1839 | HW040+NMRV-P090 | TH71B6 | - | - |
| 7.0 | 2.5 | 1673 | 4.20 | 60.00 | 252.00 | 4149 | 1839 | HW040+NMRV-P090 | TH63D4 | - | - |
| 7.0 | 2.5 | 1673 | 4.20 | 60.00 | 252.00 | 4149 | 1839 | HW040+NMRV-P090 | TH71A4 | - | - |
| 4.2 | 1.3 | 2614 | 5.45 | 50.00 | 272.73 | 3446 | 1659 | HW030+NMRV-P075 | TH71B6 | - | - |
| 6.0 | 1.8 | 1761 | 5.45 | 50.00 | 272.73 | 3190 | 1659 | HW030+NMRV-P075 | TH63D4 | - | - |
| 6.0 | 1.8 | 1761 | 5.45 | 50.00 | 272.73 | 3190 | 1659 | HW030+NMRV-P075 | TH71A4 | - | - |
| 6.0 | 1.2 | 1691 | 5.45 | 50.00 | 272.73 | 1959 | 1410 | HW030+NMRV-P063 | TH63D4 | - | - |
| 6.0 | 1.2 | 1691 | 5.45 | 50.00 | 272.73 | 1959 | 1410 | HW030+NMRV-P063 | TH71A4 | - | - |
| 4.1 | 3.4 | 3036 | 5.50 | 50.00 | 275.00 | 10356 | 2320 | HW040+NMRV-P110 | TH71B6 | - | - |
| 6.0 | 4.5 | 2026 | 5.50 | 50.00 | 275.00 | 9111 | 2320 | HW040+NMRV-P110 | TH63D4 | - | - |
| 6.0 | 4.5 | 2026 | 5.50 | 50.00 | 275.00 | 9111 | 2320 | HW040+NMRV-P110 | TH71A4 | - | - |
| 4.1 | 1.9 | 2832 | 5.50 | 50.00 | 275.00 | 5498 | 1839 | HW040+NMRV-P090 | TH71B6 | - | - |
| 6.0 | 2.7 | 1903 | 5.50 | 50.00 | 275.00 | 5075 | 1839 | HW040+NMRV-P090 | TH63D4 | - | - |
| 6.0 | 2.7 | 1903 | 5.50 | 50.00 | 275.00 | 5075 | 1839 | HW040+NMRV-P090 | TH71A4 | - | - |
| 3.7 | 3.0 | 3347 | 6.09 | 50.00 | 304.55 | 10199 | 2320 | HW040+NMRV-P110 | TH71B6 | - | - |
| 6.0 | 4.2 | 2229 | 6.09 | 50.00 | 304.55 | 9335 | 2320 | HW040+NMRV-P110 | TH63D4 | - | - |
| 6.0 | 4.2 | 2229 | 6.09 | 50.00 | 304.55 | 9335 | 2320 | HW040+NMRV-P110 | TH71A4 | - | - |
| 3.7 | 1.8 | 3119 | 6.09 | 50.00 | 304.55 | 5576 | 1839 | HW040+NMRV-P090 | TH71B6 | - | - |
| 6.0 | 2.5 | 2090 | 6.09 | 50.00 | 304.55 | 5192 | 1839 | HW040+NMRV-P090 | TH63D4 | - | - |
| 6.0 | 2.5 | 2090 | 6.09 | 50.00 | 304.55 | 5192 | 1839 | HW040+NMRV-P090 | TH71A4 | - | - |
| 3.6 | 1.2 | 3261 | 7.88 | 40.00 | 315.00 | 4007 | 1659 | HW030+NMRV-P075 | TH71B6 | - | - |
| 6.0 | 1.8 | 2163 | 7.88 | 40.00 | 315.00 | 3798 | 1659 | HW030+NMRV-P075 | TH63D4 | - | - |
| 6.0 | 1.8 | 2163 | 7.88 | 40.00 | 315.00 | 3798 | 1659 | HW030+NMRV-P075 | TH71A4 | - | - |
| 6.0 | 1.1 | 2050 | 7.88 | 40.00 | 315.00 | 2299 | 1410 | HW030+NMRV-P063 | TH63D4 | - | - |
| 6.0 | 1.1 | 2050 | 7.88 | 40.00 | 315.00 | 2299 | 1410 | HW030+NMRV-P063 | TH71A4 | - | - |
| 3.5 | 2.7 | 3398 | 5.50 | 60.00 | 330.00 | 9094 | 2320 | HW040+NMRV-P110 | TH71B6 | - | - |
| 5.0 | 3.5 | 2284 | 5.50 | 60.00 | 330.00 | 7968 | 2320 | HW040+NMRV-P110 | TH63D4 | - | - |
| 5.0 | 3.5 | 2284 | 5.50 | 60.00 | 330.00 | 7968 | 2320 | HW040+NMRV-P110 | TH71A4 | - | - |
| 3.5 | 1.5 | 3161 | 5.50 | 60.00 | 330.00 | 4789 | 1839 | HW040+NMRV-P090 | TH71B6 | - | - |
| 5.0 | 2.1 | 2129 | 5.50 | 60.00 | 330.00 | 4450 | 1839 | HW040+NMRV-P090 | TH63D4 | - | - |
| 5.0 | 2.1 | 2129 | 5.50 | 60.00 | 330.00 | 4450 | 1839 | HW040+NMRV-P090 | TH71A4 | - | - |
| 3.0 | 2.0 | 4178 | 7.67 | 50.00 | 383.33 | 8388 | 2320 | HW040+NMRV-P110 | TH71B6 | - | - |
| 4.6 | 3.0 | 2771 | 7.67 | 50.00 | 383.33 | 8294 | 2320 | HW040+NMRV-P110 | TH63D4 | - | - |
| 4.6 | 3.0 | 2771 | 7.67 | 50.00 | 383.33 | 8294 | 2320 | HW040+NMRV-P110 | TH71A4 | - | - |
| 3.0 | 1.5 | 3884 | 7.67 | 50.00 | 383.33 | 5728 | 1839 | HW040+NMRV-P090 | TH71B6 | - | - |
| 4.6 | 2.1 | 2589 | 7.67 | 50.00 | 383.33 | 5417 | 1839 | HW040+NMRV-P090 | TH63D4 | - | - |
| 4.6 | 2.1 | 2589 | 7.67 | 50.00 | 383.33 | 5417 | 1839 | HW040+NMRV-P090 | TH71A4 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.33 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 4.4 | 1.4 | 2470 | 7.88 | 50.00 | 393.75 | 3416 | 1659 | HW030+NMRV-P075 | TH63D4 | - | - |
| 4.4 | 1.4 | 2470 | 7.88 | 50.00 | 393.75 | 3416 | 1659 | HW030+NMRV-P075 | TH71A4 | - | - |
| 2.6 | 1.3 | 4410 | 8.75 | 50.00 | 437.50 | 5800 | 1839 | HW040+NMRV-P090 | TH71B6 | - | - |
| 4.0 | 1.9 | 2931 | 8.75 | 50.00 | 437.50 | 5525 | 1839 | HW040+NMRV-P090 | TH63D4 | - | - |
| 4.0 | 1.9 | 2931 | 8.75 | 50.00 | 437.50 | 5525 | 1839 | HW040+NMRV-P090 | TH71A4 | - | - |
| 2.6 | 1.8 | 4145 | 5.50 | 80.00 | 440.00 | 7610 | 2320 | HW040+NMRV-P110 | TH71B6 | - | - |
| 4.0 | 2.4 | 2778 | 5.50 | 80.00 | 440.00 | 6637 | 2320 | HW040+NMRV-P110 | TH63D4 | - | - |
| 4.0 | 2.4 | 2778 | 5.50 | 80.00 | 440.00 | 6637 | 2320 | HW040+NMRV-P110 | TH71A4 | - | - |
| 2.5 | 2.0 | 4660 | 7.67 | 60.00 | 460.00 | 9379 | 2320 | HW040+NMRV-P110 | TH71B6 | - | - |
| 3.8 | 2.7 | 3106 | 7.67 | 60.00 | 460.00 | 8491 | 2320 | HW040+NMRV-P110 | TH63D4 | - | - |
| 3.8 | 2.7 | 3106 | 7.67 | 60.00 | 460.00 | 8491 | 2320 | HW040+NMRV-P110 | TH71A4 | - | - |
| 2.5 | 1.1 | 4330 | 7.67 | 60.00 | 460.00 | 4973 | 1839 | HW040+NMRV-P090 | TH71B6 | - | - |
| 3.8 | 1.6 | 2891 | 7.67 | 60.00 | 460.00 | 4725 | 1839 | HW040+NMRV-P090 | TH63D4 | - | - |
| 3.8 | 1.6 | 2891 | 7.67 | 60.00 | 460.00 | 4725 | 1839 | HW040+NMRV-P090 | TH71A4 | - | - |
| 3.7 | 1.2 | 2798 | 7.88 | 60.00 | 472.50 | 3239 | 1659 | HW030+NMRV-P075 | TH63D4 | - | - |
| 3.7 | 1.2 | 2798 | 7.88 | 60.00 | 472.50 | 3239 | 1659 | HW030+NMRV-P075 | TH71A4 | - | - |
| 2.2 | 1.5 | 5292 | 8.75 | 60.00 | 525.00 | 8116 | 2320 | HW040+NMRV-P110 | TH71B6 | - | - |
| 3.3 | 2.3 | 3517 | 8.75 | 60.00 | 525.00 | 8008 | 2320 | HW040+NMRV-P110 | TH63D4 | - | - |
| 3.3 | 2.3 | 3517 | 8.75 | 60.00 | 525.00 | 8008 | 2320 | HW040+NMRV-P110 | TH71A4 | - | - |
| 2.2 | 1.0 | 4914 | 8.75 | 60.00 | 525.00 | 5031 | 1839 | HW040+NMRV-P090 | TH71B6 | - | - |
| 3.3 | 1.5 | 3271 | 8.75 | 60.00 | 525.00 | 4811 | 1839 | HW040+NMRV-P090 | TH63D4 | - | - |
| 3.3 | 1.5 | 3271 | 8.75 | 60.00 | 525.00 | 4811 | 1839 | HW040+NMRV-P090 | TH71A4 | - | - |
| 1.9 | 1.4 | 5693 | 7.67 | 80.00 | 613.33 | 7885 | 2320 | HW040+NMRV-P110 | TH71B6 | - | - |
| 2.9 | 1.9 | 3787 | 7.67 | 80.00 | 613.33 | 7022 | 2320 | HW040+NMRV-P110 | TH63D4 | - | - |
| 2.9 | 1.9 | 3787 | 7.67 | 80.00 | 613.33 | 7022 | 2320 | HW040+NMRV-P110 | TH71A4 | - | - |
| 2.9 | 1.1 | 3499 | 7.67 | 80.00 | 613.33 | 3771 | 1839 | HW040+NMRV-P090 | TH63D4 | - | - |
| 2.9 | 1.1 | 3499 | 7.67 | 80.00 | 613.33 | 3771 | 1839 | HW040+NMRV-P090 | TH71A4 | - | - |
| 1.6 | 1.2 | 6467 | 8.75 | 80.00 | 700.00 | 7971 | 2320 | HW040+NMRV-P110 | TH71B6 | - | - |
| 2.5 | 1.7 | 4291 | 8.75 | 80.00 | 700.00 | 7143 | 2320 | HW040+NMRV-P110 | TH63D4 | - | - |
| 2.5 | 1.7 | 4291 | 8.75 | 80.00 | 700.00 | 7143 | 2320 | HW040+NMRV-P110 | TH71A4 | - | - |
| 1.5 | 1.0 | 6389 | 7.67 | 100.00 | 766.67 | 6608 | 2320 | HW040+NMRV-P110 | TH71B6 | - | - |
| 2.3 | 1.3 | 4279 | 7.67 | 100.00 | 766.67 | 5645 | 2320 | HW040+NMRV-P110 | TH63D4 | - | - |
| 2.3 | 1.3 | 4279 | 7.67 | 100.00 | 766.67 | 5645 | 2320 | HW040+NMRV-P110 | TH71A4 | - | - |
| 2.0 | 1.2 | 4837 | 8.75 | 100.00 | 875.00 | 5681 | 2320 | HW040+NMRV-P110 | TH63D4 | - | - |
| 2.0 | 1.2 | 4837 | 8.75 | 100.00 | 875.00 | 5681 | 2320 | HW040+NMRV-P110 | TH71A4 | - | - |

0.5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 52.0 | 3.6 | 494 | 2.94 | 7.50 | 22.08 | 1773 | 814 | HW030+NMRV-P063 | TH71C6 | - | - |
| 52.0 | 3.6 | 494 | 2.94 | 7.50 | 22.08 | 1773 | 814 | HW030+NMRV-P063 | TH80A6 | - | - |
| 52.0 | 1.8 | 482 | 2.94 | 7.50 | 22.08 | 877 | 623 | HA31+NMRV050 | TH71C6 | - | - |
| 52.0 | 1.8 | 482 | 2.94 | 7.50 | 22.08 | 877 | 623 | HA31+NMRV050 | TH80A6 | - | - |
| 79.0 | 2.6 | 321 | 2.94 | 7.50 | 22.08 | 820 | 540 | HA31+NMRV050 | TH71B4 | - | - |
| 52.0 | 1.2 | 476 | 2.94 | 7.50 | 22.08 | 549 | 454 | HA31+NMRV040 | TH71C6 | - | - |
| 52.0 | 1.2 | 476 | 2.94 | 7.50 | 22.08 | 549 | 454 | HA31+NMRV040 | TH80A6 | - | - |
| 79.0 | 1.5 | 317 | 2.94 | 7.50 | 22.08 | 475 | 393 | HA31+NMRV040 | TH71B4 | - | - |
| 48.0 | 1.2 | 525 | 4.75 | 5.00 | 23.75 | 647 | 638 | HA31+NMRV050 | TH71C6 | - | - |
| 48.0 | 1.2 | 525 | 4.75 | 5.00 | 23.75 | 647 | 638 | HA31+NMRV050 | TH80A6 | - | - |
| 74.0 | 1.7 | 346 | 4.75 | 5.00 | 23.75 | 603 | 553 | HA31+NMRV050 | TH71B4 | - | - |
| 48.0 | 1.1 | 525 | 4.75 | 5.00 | 23.75 | 583 | 465 | HA31+NMRV040 | TH71C6 | - | - |
| 48.0 | 1.1 | 525 | 4.75 | 5.00 | 23.75 | 583 | 465 | HA31+NMRV040 | TH80A6 | - | - |
| 74.0 | 1.5 | 346 | 4.75 | 5.00 | 23.75 | 522 | 403 | HA31+NMRV040 | TH71B4 | - | - |
| 45.0 | 1.2 | 563 | 5.10 | 5.00 | 25.50 | 675 | 653 | HA31+NMRV050 | TH71C6 | - | - |
| 69.0 | 1.7 | 370 | 5.10 | 5.00 | 25.50 | 628 | 566 | HA31+NMRV050 | TH71B4 | - | - |
| 45.0 | 1.0 | 563 | 5.10 | 5.00 | 25.50 | 591 | 476 | HA31+NMRV040 | TH71C6 | - | - |
| 69.0 | 1.4 | 370 | 5.10 | 5.00 | 25.50 | 534 | 413 | HA31+NMRV040 | TH71B4 | - | - |
| 39.0 | 3.9 | 642 | 3.87 | 7.50 | 29.00 | 2498 | 1052 | HW030+NMRV-P075 | TH71C6 | - | - |
| 39.0 | 3.9 | 642 | 3.87 | 7.50 | 29.00 | 2498 | 1052 | HW030+NMRV-P075 | TH80A6 | - | - |
| 39.0 | 3.0 | 643 | 3.87 | 7.50 | 29.00 | 1941 | 891 | HW030+NMRV-P063 | TH71C6 | - | - |
| 39.0 | 3.0 | 643 | 3.87 | 7.50 | 29.00 | 1941 | 891 | HW030+NMRV-P063 | TH80A6 | - | - |
| 60.0 | 4.0 | 425 | 3.87 | 7.50 | 29.00 | 1682 | 773 | HW030+NMRV-P063 | TH71B4 | - | - |
| 39.0 | 1.7 | 627 | 2.94 | 10.00 | 29.44 | 1080 | 685 | HA31+NMRV050 | TH71C6 | - | - |
| 39.0 | 1.7 | 627 | 2.94 | 10.00 | 29.44 | 1080 | 685 | HA31+NMRV050 | TH80A6 | - | - |
| 59.0 | 2.3 | 417 | 2.94 | 10.00 | 29.44 | 956 | 594 | HA31+NMRV050 | TH71B4 | - | - |
| 59.0 | 1.2 | 412 | 2.94 | 10.00 | 29.44 | 499 | 433 | HA31+NMRV040 | TH71B4 | - | - |
| 56.0 | 1.4 | 454 | 6.30 | 5.00 | 31.50 | 623 | 608 | HA31+NMRV050 | TH71B4 | - | - |
| 56.0 | 1.2 | 454 | 6.30 | 5.00 | 31.50 | 565 | 443 | HA31+NMRV040 | TH71B4 | - | - |
| 32.0 | 1.2 | 768 | 4.75 | 7.50 | 35.63 | 948 | 730 | HA31+NMRV050 | TH71C6 | - | - |
| 32.0 | 1.2 | 768 | 4.75 | 7.50 | 35.63 | 948 | 730 | HA31+NMRV050 | TH80A6 | - | - |
| 49.0 | 1.7 | 506 | 4.75 | 7.50 | 35.63 | 883 | 633 | HA31+NMRV050 | TH71B4 | - | - |
| 49.0 | 1.1 | 500 | 4.75 | 7.50 | 35.63 | 558 | 461 | HA31+NMRV040 | TH71B4 | - | - |
| 29.0 | 3.4 | 827 | 3.87 | 10.00 | 38.67 | 2848 | 1158 | HW030+NMRV-P075 | TH71C6 | - | - |
| 29.0 | 3.4 | 827 | 3.87 | 10.00 | 38.67 | 2848 | 1158 | HW030+NMRV-P075 | TH80A6 | - | - |
| 29.0 | 2.4 | 816 | 3.87 | 10.00 | 38.67 | 1951 | 981 | HW030+NMRV-P063 | TH71C6 | - | - |
| 29.0 | 2.4 | 816 | 3.87 | 10.00 | 38.67 | 1951 | 981 | HW030+NMRV-P063 | TH80A6 | - | - |
| 45.0 | 3.1 | 540 | 3.87 | 10.00 | 38.67 | 1692 | 851 | HW030+NMRV-P063 | TH71B4 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 28.0 | 1.1 | 882 | 5.45 | 7.50 | 40.91 | 987 | 765 | HA31+NMRV050 | TH71C6 | - | - |
| 43.0 | 1.6 | 578 | 5.45 | 7.50 | 40.91 | 918 | 663 | HA31+NMRV050 | TH71B4 | - | - |
| 43.0 | 1.0 | 571 | 5.45 | 7.50 | 40.91 | 580 | 483 | HA31+NMRV040 | TH71B4 | - | - |
| 26.0 | 3.4 | 910 | 2.94 | 15.00 | 44.17 | 3065 | 1211 | HW030+NMRV-P075 | TH71C6 | - | - |
| 26.0 | 3.4 | 910 | 2.94 | 15.00 | 44.17 | 3065 | 1211 | HW030+NMRV-P075 | TH80A6 | - | - |
| 26.0 | 2.2 | 886 | 2.94 | 15.00 | 44.17 | 1928 | 1026 | HW030+NMRV-P063 | TH71C6 | - | - |
| 26.0 | 2.2 | 886 | 2.94 | 15.00 | 44.17 | 1928 | 1026 | HW030+NMRV-P063 | TH80A6 | - | - |
| 40.0 | 2.8 | 595 | 2.94 | 15.00 | 44.17 | 1672 | 889 | HW030+NMRV-P063 | TH71B4 | - | - |
| 26.0 | 1.2 | 875 | 2.94 | 15.00 | 44.17 | 1073 | 785 | HA31+NMRV050 | TH71C6 | - | - |
| 26.0 | 1.2 | 875 | 2.94 | 15.00 | 44.17 | 1073 | 785 | HA31+NMRV050 | TH80A6 | - | - |
| 40.0 | 1.6 | 587 | 2.94 | 15.00 | 44.17 | 956 | 680 | HA31+NMRV050 | TH71B4 | - | - |
| 24.0 | 3.0 | 1010 | 4.75 | 10.00 | 47.50 | 3051 | 1240 | HW030+NMRV-P075 | TH71C6 | - | - |
| 24.0 | 3.0 | 1010 | 4.75 | 10.00 | 47.50 | 3051 | 1240 | HW030+NMRV-P075 | TH80A6 | - | - |
| 37.0 | 4.0 | 667 | 4.75 | 10.00 | 47.50 | 2646 | 1075 | HW030+NMRV-P075 | TH71B4 | - | - |
| 24.0 | 2.1 | 997 | 4.75 | 10.00 | 47.50 | 2091 | 1051 | HW030+NMRV-P063 | TH71C6 | - | - |
| 24.0 | 2.1 | 997 | 4.75 | 10.00 | 47.50 | 2091 | 1051 | HW030+NMRV-P063 | TH80A6 | - | - |
| 37.0 | 2.8 | 658 | 4.75 | 10.00 | 47.50 | 1813 | 911 | HW030+NMRV-P063 | TH71B4 | - | - |
| 24.0 | 1.2 | 999 | 4.75 | 10.00 | 47.50 | 1184 | 804 | HA31+NMRV050 | TH71C6 | - | - |
| 24.0 | 1.2 | 999 | 4.75 | 10.00 | 47.50 | 1184 | 804 | HA31+NMRV050 | TH80A6 | - | - |
| 37.0 | 1.7 | 658 | 4.75 | 10.00 | 47.50 | 1093 | 697 | HA31+NMRV050 | TH71B4 | - | - |
| 21.0 | 1.1 | 1147 | 5.45 | 10.00 | 54.55 | 1206 | 842 | HA31+NMRV050 | TH71C6 | - | - |
| 32.0 | 1.5 | 752 | 5.45 | 10.00 | 54.55 | 1127 | 730 | HA31+NMRV050 | TH71B4 | - | - |
| 20.0 | 2.8 | 1180 | 3.87 | 15.00 | 58.00 | 3355 | 1326 | HW030+NMRV-P075 | TH71C6 | - | - |
| 20.0 | 2.8 | 1180 | 3.87 | 15.00 | 58.00 | 3355 | 1326 | HW030+NMRV-P075 | TH80A6 | - | - |
| 30.0 | 3.7 | 786 | 3.87 | 15.00 | 58.00 | 2909 | 1149 | HW030+NMRV-P075 | TH71B4 | - | - |
| 20.0 | 1.8 | 1149 | 3.87 | 15.00 | 58.00 | 2110 | 1123 | HW030+NMRV-P063 | TH71C6 | - | - |
| 20.0 | 1.8 | 1149 | 3.87 | 15.00 | 58.00 | 2110 | 1123 | HW030+NMRV-P063 | TH80A6 | - | - |
| 30.0 | 2.4 | 766 | 3.87 | 15.00 | 58.00 | 1829 | 974 | HW030+NMRV-P063 | TH71B4 | - | - |
| 30.0 | 1.1 | 751 | 2.94 | 20.00 | 58.89 | 850 | 749 | HA31+NMRV050 | TH71B4 | - | - |
| 28.0 | 1.3 | 865 | 6.30 | 10.00 | 63.00 | 1157 | 766 | HA31+NMRV050 | TH71B4 | - | - |
| 16.0 | 2.5 | 1438 | 4.75 | 15.00 | 71.25 | 3595 | 1420 | HW030+NMRV-P075 | TH71C6 | - | - |
| 16.0 | 2.5 | 1438 | 4.75 | 15.00 | 71.25 | 3595 | 1420 | HW030+NMRV-P075 | TH80A6 | - | - |
| 25.0 | 3.3 | 954 | 4.75 | 15.00 | 71.25 | 3117 | 1231 | HW030+NMRV-P075 | TH71B4 | - | - |
| 16.0 | 1.6 | 1400 | 4.75 | 15.00 | 71.25 | 2261 | 1203 | HW030+NMRV-P063 | TH71C6 | - | - |
| 16.0 | 1.6 | 1400 | 4.75 | 15.00 | 71.25 | 2261 | 1203 | HW030+NMRV-P063 | TH80A6 | - | - |
| 25.0 | 2.1 | 930 | 4.75 | 15.00 | 71.25 | 1960 | 1043 | HW030+NMRV-P063 | TH71B4 | - | - |
| 25.0 | 1.2 | 917 | 4.75 | 15.00 | 71.25 | 1086 | 798 | HA31+NMRV050 | TH71B4 | - | - |
| 15.0 | 2.4 | 1493 | 3.87 | 20.00 | 77.33 | 3623 | 1459 | HW030+NMRV-P075 | TH71C6 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 15.0 | 2.4 | 1493 | 3.87 | 20.00 | 77.33 | 3623 | 1459 | HW030+NMRV-P075 | TH80A6 | - | - |
| 23.0 | 3.1 | 1001 | 3.87 | 20.00 | 77.33 | 3057 | 1265 | HW030+NMRV-P075 | TH71B4 | - | - |
| 15.0 | 1.5 | 1452 | 3.87 | 20.00 | 77.33 | 2153 | 1236 | HW030+NMRV-P063 | TH71C6 | - | - |
| 15.0 | 1.5 | 1452 | 3.87 | 20.00 | 77.33 | 2153 | 1236 | HW030+NMRV-P063 | TH80A6 | - | - |
| 23.0 | 1.9 | 975 | 3.87 | 20.00 | 77.33 | 1816 | 1072 | HW030+NMRV-P063 | TH71B4 | - | - |
| 15.0 | 3.3 | 1512 | 3.11 | 25.00 | 77.63 | 4992 | 1617 | HW040+NMRV-P090 | TH71C6 | - | - |
| 15.0 | 3.3 | 1512 | 3.11 | 25.00 | 77.63 | 4992 | 1617 | HW040+NMRV-P090 | TH80A6 | - | - |
| 23.0 | 3.9 | 1014 | 3.11 | 25.00 | 77.63 | 3927 | 1401 | HW040+NMRV-P090 | TH71B4 | - | - |
| 22.0 | 1.0 | 1078 | 7.88 | 10.00 | 78.75 | 1128 | 825 | HA31+NMRV050 | TH71B4 | - | - |
| 14.0 | 2.2 | 1645 | 5.45 | 15.00 | 81.82 | 3658 | 1487 | HW030+NMRV-P075 | TH71C6 | - | - |
| 14.0 | 2.2 | 1645 | 5.45 | 15.00 | 81.82 | 3658 | 1487 | HW030+NMRV-P075 | TH80A6 | - | - |
| 21.0 | 3.0 | 1089 | 5.45 | 15.00 | 81.82 | 3264 | 1289 | HW030+NMRV-P075 | TH71B4 | - | - |
| 14.0 | 1.5 | 1601 | 5.45 | 15.00 | 81.82 | 2367 | 1260 | HW030+NMRV-P063 | TH71C6 | - | - |
| 14.0 | 1.5 | 1601 | 5.45 | 15.00 | 81.82 | 2367 | 1260 | HW030+NMRV-P063 | TH80A6 | - | - |
| 21.0 | 1.9 | 1060 | 5.45 | 15.00 | 81.82 | 2053 | 1092 | HW030+NMRV-P063 | TH71B4 | - | - |
| 14.0 | 3.3 | 1681 | 4.20 | 20.00 | 84.00 | 5608 | 1660 | HW040+NMRV-P090 | TH71C6 | - | - |
| 14.0 | 3.3 | 1681 | 4.20 | 20.00 | 84.00 | 5608 | 1660 | HW040+NMRV-P090 | TH80A6 | - | - |
| 13.0 | 2.1 | 1546 | 2.94 | 30.00 | 88.33 | 3313 | 1525 | HW030+NMRV-P075 | TH71C6 | - | - |
| 13.0 | 2.1 | 1546 | 2.94 | 30.00 | 88.33 | 3313 | 1525 | HW030+NMRV-P075 | TH80A6 | - | - |
| 20.0 | 2.7 | 1050 | 2.94 | 30.00 | 88.33 | 2873 | 1322 | HW030+NMRV-P075 | TH71B4 | - | - |
| 13.0 | 1.4 | 1475 | 2.94 | 30.00 | 88.33 | 2051 | 1292 | HW030+NMRV-P063 | TH71C6 | - | - |
| 13.0 | 1.4 | 1475 | 2.94 | 30.00 | 88.33 | 2051 | 1292 | HW030+NMRV-P063 | TH80A6 | - | - |
| 20.0 | 1.8 | 1004 | 2.94 | 30.00 | 88.33 | 1778 | 1120 | HW030+NMRV-P063 | TH71B4 | - | - |
| 12.0 | 3.3 | 1698 | 3.11 | 30.00 | 93.16 | 5680 | 1718 | HW040+NMRV-P090 | TH71C6 | - | - |
| 12.0 | 3.3 | 1698 | 3.11 | 30.00 | 93.16 | 5680 | 1718 | HW040+NMRV-P090 | TH80A6 | - | - |
| 12.0 | 2.1 | 1816 | 4.75 | 20.00 | 95.00 | 3857 | 1563 | HW030+NMRV-P075 | TH71C6 | - | - |
| 12.0 | 2.1 | 1816 | 4.75 | 20.00 | 95.00 | 3857 | 1563 | HW030+NMRV-P075 | TH80A6 | - | - |
| 18.0 | 2.8 | 1212 | 4.75 | 20.00 | 95.00 | 3366 | 1355 | HW030+NMRV-P075 | TH71B4 | - | - |
| 12.0 | 1.3 | 1765 | 4.75 | 20.00 | 95.00 | 2271 | 1324 | HW030+NMRV-P063 | TH71C6 | - | - |
| 12.0 | 1.3 | 1765 | 4.75 | 20.00 | 95.00 | 2271 | 1324 | HW030+NMRV-P063 | TH80A6 | - | - |
| 18.0 | 1.7 | 1179 | 4.75 | 20.00 | 95.00 | 1997 | 1148 | HW030+NMRV-P063 | TH71B4 | - | - |
| 10.0 | 1.9 | 2073 | 5.45 | 20.00 | 109.09 | 3973 | 1636 | HW030+NMRV-P075 | TH71C6 | - | - |
| 10.0 | 1.9 | 2073 | 5.45 | 20.00 | 109.09 | 3973 | 1636 | HW030+NMRV-P075 | TH80A6 | - | - |
| 16.0 | 2.6 | 1379 | 5.45 | 20.00 | 109.09 | 3525 | 1419 | HW030+NMRV-P075 | TH71B4 | - | - |
| 10.0 | 1.2 | 2015 | 5.45 | 20.00 | 109.09 | 2337 | 1386 | HW030+NMRV-P063 | TH71C6 | - | - |
| 10.0 | 1.2 | 2015 | 5.45 | 20.00 | 109.09 | 2337 | 1386 | HW030+NMRV-P063 | TH80A6 | - | - |
| 16.0 | 1.6 | 1342 | 5.45 | 20.00 | 109.09 | 2099 | 1202 | HW030+NMRV-P063 | TH71B4 | - | - |
| 10.0 | 2.8 | 2181 | 5.50 | 20.00 | 110.00 | 6135 | 1816 | HW040+NMRV-P090 | TH71C6 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 10.0 | 2.8 | 2181 | 5.50 | 20.00 | 110.00 | 6135 | 1816 | HW040+NMRV-P090 | TH80A6 | - | - |
| 16.0 | 3.7 | 1444 | 5.50 | 20.00 | 110.00 | 5319 | 1574 | HW040+NMRV-P090 | TH71B4 | - | - |
| 10.0 | 1.8 | 1992 | 3.87 | 30.00 | 116.00 | 3626 | 1659 | HW030+NMRV-P075 | TH71C6 | - | - |
| 10.0 | 1.8 | 1992 | 3.87 | 30.00 | 116.00 | 3626 | 1659 | HW030+NMRV-P075 | TH80A6 | - | - |
| 15.0 | 2.3 | 1341 | 3.87 | 30.00 | 116.00 | 3144 | 1448 | HW030+NMRV-P075 | TH71B4 | - | - |
| 10.0 | 1.0 | 2290 | 7.88 | 15.00 | 118.13 | 2330 | 1410 | HW030+NMRV-P063 | TH71C6 | - | - |
| 10.0 | 1.0 | 2290 | 7.88 | 15.00 | 118.13 | 2330 | 1410 | HW030+NMRV-P063 | TH80A6 | - | - |
| 15.0 | 1.5 | 1509 | 7.88 | 15.00 | 118.13 | 2320 | 1234 | HW030+NMRV-P063 | TH71B4 | - | - |
| 9.0 | 2.8 | 2254 | 4.20 | 30.00 | 126.00 | 6281 | 1839 | HW040+NMRV-P090 | TH71C6 | - | - |
| 9.0 | 2.8 | 2254 | 4.20 | 30.00 | 126.00 | 6281 | 1839 | HW040+NMRV-P090 | TH80A6 | - | - |
| 14.0 | 3.6 | 1512 | 4.20 | 30.00 | 126.00 | 5445 | 1647 | HW040+NMRV-P090 | TH71B4 | - | - |
| 8.0 | 1.4 | 2483 | 5.45 | 25.00 | 136.36 | 3551 | 1659 | HW030+NMRV-P075 | TH71C6 | - | - |
| 8.0 | 1.4 | 2483 | 5.45 | 25.00 | 136.36 | 3551 | 1659 | HW030+NMRV-P075 | TH80A6 | - | - |
| 13.0 | 1.9 | 1653 | 5.45 | 25.00 | 136.36 | 3183 | 1528 | HW030+NMRV-P075 | TH71B4 | - | - |
| 13.0 | 1.2 | 1606 | 5.45 | 25.00 | 136.36 | 1913 | 1295 | HW030+NMRV-P063 | TH71B4 | - | - |
| 8.0 | 3.1 | 2726 | 5.50 | 25.00 | 137.50 | 8475 | 2320 | HW040+NMRV-P110 | TH71C6 | - | - |
| 8.0 | 3.1 | 2726 | 5.50 | 25.00 | 137.50 | 8475 | 2320 | HW040+NMRV-P110 | TH80A6 | - | - |
| 8.0 | 2.3 | 2617 | 5.50 | 25.00 | 137.50 | 5925 | 1839 | HW040+NMRV-P090 | TH71C6 | - | - |
| 8.0 | 2.3 | 2617 | 5.50 | 25.00 | 137.50 | 5925 | 1839 | HW040+NMRV-P090 | TH80A6 | - | - |
| 13.0 | 3.0 | 1733 | 5.50 | 25.00 | 137.50 | 5235 | 1696 | HW040+NMRV-P090 | TH71B4 | - | - |
| 8.0 | 1.6 | 2420 | 4.75 | 30.00 | 142.50 | 3886 | 1659 | HW030+NMRV-P075 | TH71C6 | - | - |
| 8.0 | 1.6 | 2420 | 4.75 | 30.00 | 142.50 | 3886 | 1659 | HW030+NMRV-P075 | TH80A6 | - | - |
| 12.0 | 2.1 | 1620 | 4.75 | 30.00 | 142.50 | 3369 | 1551 | HW030+NMRV-P075 | TH71B4 | - | - |
| 8.0 | 1.0 | 2306 | 4.75 | 30.00 | 142.50 | 2405 | 1410 | HW030+NMRV-P063 | TH71C6 | - | - |
| 8.0 | 1.0 | 2306 | 4.75 | 30.00 | 142.50 | 2405 | 1410 | HW030+NMRV-P063 | TH80A6 | - | - |
| 12.0 | 1.3 | 1546 | 4.75 | 30.00 | 142.50 | 2085 | 1314 | HW030+NMRV-P063 | TH71B4 | - | - |
| 7.0 | 1.5 | 2451 | 3.87 | 40.00 | 154.67 | 3554 | 1659 | HW030+NMRV-P075 | TH71C6 | - | - |
| 7.0 | 1.5 | 2451 | 3.87 | 40.00 | 154.67 | 3554 | 1659 | HW030+NMRV-P075 | TH80A6 | - | - |
| 11.0 | 1.9 | 1654 | 3.87 | 40.00 | 154.67 | 3081 | 1594 | HW030+NMRV-P075 | TH71B4 | - | - |
| 7.0 | 3.3 | 2623 | 3.11 | 50.00 | 155.26 | 8755 | 2320 | HW040+NMRV-P110 | TH71C6 | - | - |
| 7.0 | 3.3 | 2623 | 3.11 | 50.00 | 155.26 | 8755 | 2320 | HW040+NMRV-P110 | TH80A6 | - | - |
| 7.0 | 2.0 | 2471 | 3.11 | 50.00 | 155.26 | 4874 | 1839 | HW040+NMRV-P090 | TH71C6 | - | - |
| 7.0 | 2.0 | 2471 | 3.11 | 50.00 | 155.26 | 4874 | 1839 | HW040+NMRV-P090 | TH80A6 | - | - |
| 11.0 | 2.4 | 1696 | 3.11 | 50.00 | 155.26 | 4139 | 1766 | HW040+NMRV-P090 | TH71B4 | - | - |
| 11.0 | 1.2 | 1901 | 7.88 | 20.00 | 157.50 | 2308 | 1358 | HW030+NMRV-P063 | TH71B4 | - | - |
| 7.0 | 1.5 | 2761 | 5.45 | 30.00 | 163.64 | 4069 | 1659 | HW030+NMRV-P075 | TH71C6 | - | - |
| 7.0 | 1.5 | 2761 | 5.45 | 30.00 | 163.64 | 4069 | 1659 | HW030+NMRV-P075 | TH80A6 | - | - |
| 11.0 | 1.9 | 1842 | 5.45 | 30.00 | 163.64 | 3528 | 1624 | HW030+NMRV-P075 | TH71B4 | - | - |

0.5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 11.0 | 1.2 | 1757 | 5.45 | 30.00 | 163.64 | 2184 | 1376 | HW030+NMRV-P063 | TH71B4 | - | - |
| 7.0 | 2.4 | 2915 | 5.50 | 30.00 | 165.00 | 6871 | 1839 | HW040+NMRV-P090 | TH71C6 | - | - |
| 7.0 | 2.4 | 2915 | 5.50 | 30.00 | 165.00 | 6871 | 1839 | HW040+NMRV-P090 | TH80A6 | - | - |
| 11.0 | 3.1 | 1942 | 5.50 | 30.00 | 165.00 | 5957 | 1802 | HW040+NMRV-P090 | TH71B4 | - | - |
| 7.0 | 3.6 | 2919 | 4.20 | 40.00 | 168.00 | 10558 | 2320 | HW040+NMRV-P110 | TH71C6 | - | - |
| 7.0 | 3.6 | 2919 | 4.20 | 40.00 | 168.00 | 10558 | 2320 | HW040+NMRV-P110 | TH80A6 | - | - |
| 6.0 | 1.2 | 2497 | 2.94 | 60.00 | 176.67 | 2900 | 1659 | HW030+NMRV-P075 | TH71C6 | - | - |
| 6.0 | 1.2 | 2497 | 2.94 | 60.00 | 176.67 | 2900 | 1659 | HW030+NMRV-P075 | TH80A6 | - | - |
| 10.0 | 1.4 | 1731 | 2.94 | 60.00 | 176.67 | 2492 | 1659 | HW030+NMRV-P075 | TH71B4 | - | - |
| 6.0 | 2.6 | 2965 | 3.11 | 60.00 | 186.32 | 7684 | 2320 | HW040+NMRV-P110 | TH71C6 | - | - |
| 6.0 | 2.6 | 2965 | 3.11 | 60.00 | 186.32 | 7684 | 2320 | HW040+NMRV-P110 | TH80A6 | - | - |
| 9.0 | 3.2 | 2035 | 3.11 | 60.00 | 186.32 | 6543 | 2320 | HW040+NMRV-P110 | TH71B4 | - | - |
| 6.0 | 1.6 | 2766 | 3.11 | 60.00 | 186.32 | 4301 | 1839 | HW040+NMRV-P090 | TH71C6 | - | - |
| 6.0 | 1.6 | 2766 | 3.11 | 60.00 | 186.32 | 4301 | 1839 | HW040+NMRV-P090 | TH80A6 | - | - |
| 9.0 | 1.9 | 1906 | 3.11 | 60.00 | 186.32 | 3700 | 1839 | HW040+NMRV-P090 | TH71B4 | - | - |
| 6.0 | 1.0 | 3540 | 7.88 | 25.00 | 196.88 | 3608 | 1659 | HW030+NMRV-P075 | TH71C6 | - | - |
| 6.0 | 1.0 | 3540 | 7.88 | 25.00 | 196.88 | 3608 | 1659 | HW030+NMRV-P075 | TH80A6 | - | - |
| 9.0 | 1.5 | 2342 | 7.88 | 25.00 | 196.88 | 3508 | 1659 | HW030+NMRV-P075 | TH71B4 | - | - |
| 5.0 | 1.1 | 3392 | 5.45 | 40.00 | 218.18 | 3835 | 1659 | HW030+NMRV-P075 | TH71C6 | - | - |
| 5.0 | 1.1 | 3392 | 5.45 | 40.00 | 218.18 | 3835 | 1659 | HW030+NMRV-P075 | TH80A6 | - | - |
| 8.0 | 1.5 | 2267 | 5.45 | 40.00 | 218.18 | 3457 | 1659 | HW030+NMRV-P075 | TH71B4 | - | - |
| 5.0 | 3.0 | 3763 | 5.50 | 40.00 | 220.00 | 11144 | 2320 | HW040+NMRV-P110 | TH71C6 | - | - |
| 5.0 | 3.0 | 3763 | 5.50 | 40.00 | 220.00 | 11144 | 2320 | HW040+NMRV-P110 | TH80A6 | - | - |
| 8.0 | 3.9 | 2520 | 5.50 | 40.00 | 220.00 | 9867 | 2320 | HW040+NMRV-P110 | TH71B4 | - | - |
| 5.0 | 1.7 | 3594 | 5.50 | 40.00 | 220.00 | 6265 | 1839 | HW040+NMRV-P090 | TH71C6 | - | - |
| 5.0 | 1.7 | 3594 | 5.50 | 40.00 | 220.00 | 6265 | 1839 | HW040+NMRV-P090 | TH80A6 | - | - |
| 8.0 | 2.3 | 2399 | 5.50 | 40.00 | 220.00 | 5432 | 1839 | HW040+NMRV-P090 | TH71B4 | - | - |
| 4.8 | 1.0 | 3934 | 7.88 | 30.00 | 236.25 | 4012 | 1659 | HW030+NMRV-P075 | TH71C6 | - | - |
| 4.8 | 1.0 | 3934 | 7.88 | 30.00 | 236.25 | 4012 | 1659 | HW030+NMRV-P075 | TH80A6 | - | - |
| 7.0 | 1.5 | 2606 | 7.88 | 30.00 | 236.25 | 3987 | 1659 | HW030+NMRV-P075 | TH71B4 | - | - |
| 4.5 | 2.2 | 3909 | 4.20 | 60.00 | 252.00 | 8701 | 2320 | HW040+NMRV-P110 | TH71C6 | - | - |
| 4.5 | 2.2 | 3909 | 4.20 | 60.00 | 252.00 | 8701 | 2320 | HW040+NMRV-P110 | TH80A6 | - | - |
| 7.0 | 2.8 | 2650 | 4.20 | 60.00 | 252.00 | 7396 | 2320 | HW040+NMRV-P110 | TH71B4 | - | - |
| 4.5 | 1.3 | 3640 | 4.20 | 60.00 | 252.00 | 4593 | 1839 | HW040+NMRV-P090 | TH71C6 | - | - |
| 4.5 | 1.3 | 3640 | 4.20 | 60.00 | 252.00 | 4593 | 1839 | HW040+NMRV-P090 | TH80A6 | - | - |
| 7.0 | 1.7 | 2475 | 4.20 | 60.00 | 252.00 | 4149 | 1839 | HW040+NMRV-P090 | TH71B4 | - | - |
| 6.0 | 1.2 | 2607 | 5.45 | 50.00 | 272.73 | 3190 | 1659 | HW030+NMRV-P075 | TH71B4 | - | - |
| 4.1 | 2.3 | 4493 | 5.50 | 50.00 | 275.00 | 10356 | 2320 | HW040+NMRV-P110 | TH71C6 | - | - |

0.5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 4.1 | 2.3 | 4493 | 5.50 | 50.00 | 275.00 | 10356 | 2320 | HW040+NMRV-P110 | TH80A6 | - | - |
| 6.0 | 3.0 | 2999 | 5.50 | 50.00 | 275.00 | 9111 | 2320 | HW040+NMRV-P110 | TH71B4 | - | - |
| 4.1 | 1.3 | 4191 | 5.50 | 50.00 | 275.00 | 5498 | 1839 | HW040+NMRV-P090 | TH71C6 | - | - |
| 4.1 | 1.3 | 4191 | 5.50 | 50.00 | 275.00 | 5498 | 1839 | HW040+NMRV-P090 | TH80A6 | - | - |
| 6.0 | 1.8 | 2817 | 5.50 | 50.00 | 275.00 | 5075 | 1839 | HW040+NMRV-P090 | TH71B4 | - | - |
| 3.7 | 2.1 | 4954 | 6.09 | 50.00 | 304.55 | 10199 | 2320 | HW040+NMRV-P110 | TH71C6 | - | - |
| 3.7 | 2.1 | 4954 | 6.09 | 50.00 | 304.55 | 10199 | 2320 | HW040+NMRV-P110 | TH80A6 | - | - |
| 6.0 | 2.8 | 3299 | 6.09 | 50.00 | 304.55 | 9335 | 2320 | HW040+NMRV-P110 | TH71B4 | - | - |
| 3.7 | 1.2 | 4616 | 6.09 | 50.00 | 304.55 | 5576 | 1839 | HW040+NMRV-P090 | TH71C6 | - | - |
| 3.7 | 1.2 | 4616 | 6.09 | 50.00 | 304.55 | 5576 | 1839 | HW040+NMRV-P090 | TH80A6 | - | - |
| 6.0 | 1.7 | 3093 | 6.09 | 50.00 | 304.55 | 5192 | 1839 | HW040+NMRV-P090 | TH71B4 | - | - |
| 6.0 | 1.2 | 3201 | 7.88 | 40.00 | 315.00 | 3798 | 1659 | HW030+NMRV-P075 | TH71B4 | - | - |
| 3.5 | 1.8 | 5029 | 5.50 | 60.00 | 330.00 | 9094 | 2320 | HW040+NMRV-P110 | TH71C6 | - | - |
| 3.5 | 1.8 | 5029 | 5.50 | 60.00 | 330.00 | 9094 | 2320 | HW040+NMRV-P110 | TH80A6 | - | - |
| 5.0 | 2.4 | 3380 | 5.50 | 60.00 | 330.00 | 7968 | 2320 | HW040+NMRV-P110 | TH71B4 | - | - |
| 3.5 | 1.0 | 4678 | 5.50 | 60.00 | 330.00 | 4789 | 1839 | HW040+NMRV-P090 | TH71C6 | - | - |
| 3.5 | 1.0 | 4678 | 5.50 | 60.00 | 330.00 | 4789 | 1839 | HW040+NMRV-P090 | TH80A6 | - | - |
| 5.0 | 1.4 | 3151 | 5.50 | 60.00 | 330.00 | 4450 | 1839 | HW040+NMRV-P090 | TH71B4 | - | - |
| 3.0 | 1.4 | 6184 | 7.67 | 50.00 | 383.33 | 8388 | 2320 | HW040+NMRV-P110 | TH71C6 | - | - |
| 3.0 | 1.4 | 6184 | 7.67 | 50.00 | 383.33 | 8388 | 2320 | HW040+NMRV-P110 | TH80A6 | - | - |
| 4.6 | 2.0 | 4101 | 7.67 | 50.00 | 383.33 | 8294 | 2320 | HW040+NMRV-P110 | TH71B4 | - | - |
| 4.6 | 1.4 | 3831 | 7.67 | 50.00 | 383.33 | 5417 | 1839 | HW040+NMRV-P090 | TH71B4 | - | - |
| 4.0 | 1.3 | 4338 | 8.75 | 50.00 | 437.50 | 5525 | 1839 | HW040+NMRV-P090 | TH71B4 | - | - |
| 2.6 | 1.2 | 6135 | 5.50 | 80.00 | 440.00 | 7610 | 2320 | HW040+NMRV-P110 | TH71C6 | - | - |
| 2.6 | 1.2 | 6135 | 5.50 | 80.00 | 440.00 | 7610 | 2320 | HW040+NMRV-P110 | TH80A6 | - | - |
| 4.0 | 1.6 | 4112 | 5.50 | 80.00 | 440.00 | 6637 | 2320 | HW040+NMRV-P110 | TH71B4 | - | - |
| 2.5 | 1.4 | 6897 | 7.67 | 60.00 | 460.00 | 9379 | 2320 | HW040+NMRV-P110 | TH71C6 | - | - |
| 2.5 | 1.4 | 6897 | 7.67 | 60.00 | 460.00 | 9379 | 2320 | HW040+NMRV-P110 | TH80A6 | - | - |
| 3.8 | 1.8 | 4597 | 7.67 | 60.00 | 460.00 | 8491 | 2320 | HW040+NMRV-P110 | TH71B4 | - | - |
| 3.8 | 1.1 | 4278 | 7.67 | 60.00 | 460.00 | 4725 | 1839 | HW040+NMRV-P090 | TH71B4 | - | - |
| 2.2 | 1.0 | 7831 | 8.75 | 60.00 | 525.00 | 8116 | 2320 | HW040+NMRV-P110 | TH71C6 | - | - |
| 3.3 | 1.5 | 5206 | 8.75 | 60.00 | 525.00 | 8008 | 2320 | HW040+NMRV-P110 | TH71B4 | - | - |
| 2.9 | 1.3 | 5604 | 7.67 | 80.00 | 613.33 | 7022 | 2320 | HW040+NMRV-P110 | TH71B4 | - | - |
| 2.5 | 1.1 | 6350 | 8.75 | 80.00 | 700.00 | 7143 | 2320 | HW040+NMRV-P110 | TH71B4 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.75 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 52.0 | 3.4 | 731 | 2.94 | 7.50 | 22.08 | 2506 | 961 | HW030+NMRV-P075 | TH80B6 | - | - |
| 52.0 | 2.4 | 734 | 2.94 | 7.50 | 22.08 | 1773 | 814 | HW030+NMRV-P063 | TH80B6 | - | - |
| 79.0 | 3.2 | 488 | 2.94 | 7.50 | 22.08 | 1538 | 706 | HW030+NMRV-P063 | TH71C4 | - | - |
| 79.0 | 3.2 | 488 | 2.94 | 7.50 | 22.08 | 1538 | 706 | HW030+NMRV-P063 | TH80A4 | - | - |
| 52.0 | 1.2 | 717 | 2.94 | 7.50 | 22.08 | 877 | 623 | HA31+NMRV050 | TH80B6 | - | - |
| 79.0 | 1.7 | 477 | 2.94 | 7.50 | 22.08 | 820 | 540 | HA31+NMRV050 | TH71C4 | - | - |
| 79.0 | 1.7 | 477 | 2.94 | 7.50 | 22.08 | 820 | 540 | HA31+NMRV050 | TH80A4 | - | - |
| 79.0 | 1.0 | 471 | 2.94 | 7.50 | 22.08 | 475 | 393 | HA31+NMRV040 | TH71C4 | - | - |
| 79.0 | 1.0 | 471 | 2.94 | 7.50 | 22.08 | 475 | 393 | HA31+NMRV040 | TH80A4 | - | - |
| 74.0 | 1.2 | 514 | 4.75 | 5.00 | 23.75 | 603 | 553 | HA31+NMRV050 | TH71C4 | - | - |
| 74.0 | 1.2 | 514 | 4.75 | 5.00 | 23.75 | 603 | 553 | HA31+NMRV050 | TH80A4 | - | - |
| 74.0 | 1.0 | 514 | 4.75 | 5.00 | 23.75 | 522 | 403 | HA31+NMRV040 | TH71C4 | - | - |
| 74.0 | 1.0 | 514 | 4.75 | 5.00 | 23.75 | 522 | 403 | HA31+NMRV040 | TH80A4 | - | - |
| 69.0 | 1.1 | 550 | 5.10 | 5.00 | 25.50 | 628 | 566 | HA31+NMRV050 | TH71C4 | - | - |
| 39.0 | 2.6 | 955 | 3.87 | 7.50 | 29.00 | 2498 | 1052 | HW030+NMRV-P075 | TH80B6 | - | - |
| 60.0 | 3.8 | 628 | 3.87 | 7.50 | 29.00 | 2377 | 912 | HW030+NMRV-P075 | TH71C4 | - | - |
| 60.0 | 3.8 | 628 | 3.87 | 7.50 | 29.00 | 2377 | 912 | HW030+NMRV-P075 | TH80A4 | - | - |
| 39.0 | 2.0 | 956 | 3.87 | 7.50 | 29.00 | 1941 | 891 | HW030+NMRV-P063 | TH80B6 | - | - |
| 60.0 | 2.7 | 632 | 3.87 | 7.50 | 29.00 | 1682 | 773 | HW030+NMRV-P063 | TH71C4 | - | - |
| 60.0 | 2.7 | 632 | 3.87 | 7.50 | 29.00 | 1682 | 773 | HW030+NMRV-P063 | TH80A4 | - | - |
| 39.0 | 1.2 | 932 | 2.94 | 10.00 | 29.44 | 1080 | 685 | HA31+NMRV050 | TH80B6 | - | - |
| 59.0 | 1.5 | 620 | 2.94 | 10.00 | 29.44 | 956 | 594 | HA31+NMRV050 | TH71C4 | - | - |
| 59.0 | 1.5 | 620 | 2.94 | 10.00 | 29.44 | 956 | 594 | HA31+NMRV050 | TH80A4 | - | - |
| 49.0 | 1.2 | 752 | 4.75 | 7.50 | 35.63 | 883 | 633 | HA31+NMRV050 | TH71C4 | - | - |
| 49.0 | 1.2 | 752 | 4.75 | 7.50 | 35.63 | 883 | 633 | HA31+NMRV050 | TH80A4 | - | - |
| 29.0 | 2.3 | 1229 | 3.87 | 10.00 | 38.67 | 2848 | 1158 | HW030+NMRV-P075 | TH80B6 | - | - |
| 45.0 | 3.0 | 813 | 3.87 | 10.00 | 38.67 | 2469 | 1004 | HW030+NMRV-P075 | TH71C4 | - | - |
| 45.0 | 3.0 | 813 | 3.87 | 10.00 | 38.67 | 2469 | 1004 | HW030+NMRV-P075 | TH80A4 | - | - |
| 29.0 | 1.6 | 1213 | 3.87 | 10.00 | 38.67 | 1951 | 981 | HW030+NMRV-P063 | TH80B6 | - | - |
| 45.0 | 2.1 | 803 | 3.87 | 10.00 | 38.67 | 1692 | 851 | HW030+NMRV-P063 | TH71C4 | - | - |
| 45.0 | 2.1 | 803 | 3.87 | 10.00 | 38.67 | 1692 | 851 | HW030+NMRV-P063 | TH80A4 | - | - |
| 43.0 | 1.1 | 860 | 5.45 | 7.50 | 40.91 | 918 | 663 | HA31+NMRV050 | TH71C4 | - | - |
| 27.0 | 3.2 | 1365 | 4.20 | 10.00 | 42.00 | 4392 | 1317 | HW040+NMRV-P090 | TH80B6 | - | - |
| 27.0 | 3.2 | 1365 | 4.20 | 10.00 | 42.00 | 4392 | 1665 | HW040+NMRV-P110 | TH80B6 | - | - |
| 26.0 | 2.3 | 1352 | 2.94 | 15.00 | 44.17 | 3065 | 1211 | HW030+NMRV-P075 | TH80B6 | - | - |
| 40.0 | 2.9 | 907 | 2.94 | 15.00 | 44.17 | 2658 | 1049 | HW030+NMRV-P075 | TH71C4 | - | - |
| 40.0 | 2.9 | 907 | 2.94 | 15.00 | 44.17 | 2658 | 1049 | HW030+NMRV-P075 | TH80A4 | - | - |
| 26.0 | 1.5 | 1317 | 2.94 | 15.00 | 44.17 | 1928 | 1026 | HW030+NMRV-P063 | TH80B6 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.75 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 40.0 | 1.9 | 884 | 2.94 | 15.00 | 44.17 | 1672 | 889 | HW030+NMRV-P063 | TH71C4 | - | - |
| 40.0 | 1.9 | 884 | 2.94 | 15.00 | 44.17 | 1672 | 889 | HW030+NMRV-P063 | TH80A4 | - | - |
| 40.0 | 1.1 | 873 | 2.94 | 15.00 | 44.17 | 956 | 680 | HA31+NMRV050 | TH71C4 | - | - |
| 40.0 | 1.1 | 873 | 2.94 | 15.00 | 44.17 | 956 | 680 | HA31+NMRV050 | TH80A4 | - | - |
| 24.0 | 3.6 | 1459 | 3.11 | 15.00 | 46.58 | 5288 | 1364 | HW040+NMRV-P090 | TH80B6 | - | - |
| 24.0 | 2.0 | 1501 | 4.75 | 10.00 | 47.50 | 3051 | 1240 | HW030+NMRV-P075 | TH80B6 | - | - |
| 37.0 | 2.7 | 991 | 4.75 | 10.00 | 47.50 | 2646 | 1075 | HW030+NMRV-P075 | TH71C4 | - | - |
| 37.0 | 2.7 | 991 | 4.75 | 10.00 | 47.50 | 2646 | 1075 | HW030+NMRV-P075 | TH80A4 | - | - |
| 24.0 | 1.4 | 1482 | 4.75 | 10.00 | 47.50 | 2091 | 1051 | HW030+NMRV-P063 | TH80B6 | - | - |
| 37.0 | 1.9 | 979 | 4.75 | 10.00 | 47.50 | 1813 | 911 | HW030+NMRV-P063 | TH71C4 | - | - |
| 37.0 | 1.9 | 979 | 4.75 | 10.00 | 47.50 | 1813 | 911 | HW030+NMRV-P063 | TH80A4 | - | - |
| 37.0 | 1.1 | 979 | 4.75 | 10.00 | 47.50 | 1093 | 697 | HA31+NMRV050 | TH71C4 | - | - |
| 37.0 | 1.1 | 979 | 4.75 | 10.00 | 47.50 | 1093 | 697 | HA31+NMRV050 | TH80A4 | - | - |
| 32.0 | 1.0 | 1118 | 5.45 | 10.00 | 54.55 | 1127 | 730 | HA31+NMRV050 | TH71C4 | - | - |
| 20.0 | 1.9 | 1754 | 3.87 | 15.00 | 58.00 | 3355 | 1326 | HW030+NMRV-P075 | TH80B6 | - | - |
| 30.0 | 2.5 | 1168 | 3.87 | 15.00 | 58.00 | 2909 | 1149 | HW030+NMRV-P075 | TH71C4 | - | - |
| 30.0 | 2.5 | 1168 | 3.87 | 15.00 | 58.00 | 2909 | 1149 | HW030+NMRV-P075 | TH80A4 | - | - |
| 20.0 | 1.2 | 1708 | 3.87 | 15.00 | 58.00 | 2110 | 1123 | HW030+NMRV-P063 | TH80B6 | - | - |
| 30.0 | 1.6 | 1138 | 3.87 | 15.00 | 58.00 | 1829 | 974 | HW030+NMRV-P063 | TH71C4 | - | - |
| 30.0 | 1.6 | 1138 | 3.87 | 15.00 | 58.00 | 1829 | 974 | HW030+NMRV-P063 | TH80A4 | - | - |
| 18.0 | 3.0 | 1949 | 4.20 | 15.00 | 63.00 | 5847 | 1508 | HW040+NMRV-P090 | TH80B6 | - | - |
| 28.0 | 3.9 | 1295 | 4.20 | 15.00 | 63.00 | 5069 | 1307 | HW040+NMRV-P090 | TH71C4 | - | - |
| 28.0 | 3.9 | 1295 | 4.20 | 15.00 | 63.00 | 5069 | 1307 | HW040+NMRV-P090 | TH80A4 | - | - |
| 16.0 | 1.7 | 2138 | 4.75 | 15.00 | 71.25 | 3595 | 1420 | HW030+NMRV-P075 | TH80B6 | - | - |
| 25.0 | 2.2 | 1419 | 4.75 | 15.00 | 71.25 | 3117 | 1231 | HW030+NMRV-P075 | TH71C4 | - | - |
| 25.0 | 2.2 | 1419 | 4.75 | 15.00 | 71.25 | 3117 | 1231 | HW030+NMRV-P075 | TH80A4 | - | - |
| 16.0 | 1.1 | 2082 | 4.75 | 15.00 | 71.25 | 2261 | 1203 | HW030+NMRV-P063 | TH80B6 | - | - |
| 25.0 | 1.4 | 1382 | 4.75 | 15.00 | 71.25 | 1960 | 1043 | HW030+NMRV-P063 | TH71C4 | - | - |
| 25.0 | 1.4 | 1382 | 4.75 | 15.00 | 71.25 | 1960 | 1043 | HW030+NMRV-P063 | TH80A4 | - | - |
| 15.0 | 1.6 | 2219 | 3.87 | 20.00 | 77.33 | 3623 | 1459 | HW030+NMRV-P075 | TH80B6 | - | - |
| 23.0 | 2.1 | 1489 | 3.87 | 20.00 | 77.33 | 3057 | 1265 | HW030+NMRV-P075 | TH71C4 | - | - |
| 23.0 | 2.1 | 1489 | 3.87 | 20.00 | 77.33 | 3057 | 1265 | HW030+NMRV-P075 | TH80A4 | - | - |
| 23.0 | 1.3 | 1449 | 3.87 | 20.00 | 77.33 | 1816 | 1072 | HW030+NMRV-P063 | TH71C4 | - | - |
| 23.0 | 1.3 | 1449 | 3.87 | 20.00 | 77.33 | 1816 | 1072 | HW030+NMRV-P063 | TH80A4 | - | - |
| 15.0 | 2.2 | 2248 | 3.11 | 25.00 | 77.63 | 4992 | 1617 | HW040+NMRV-P090 | TH80B6 | - | - |
| 23.0 | 2.6 | 1507 | 3.11 | 25.00 | 77.63 | 3927 | 1401 | HW040+NMRV-P090 | TH71C4 | - | - |
| 23.0 | 2.6 | 1507 | 3.11 | 25.00 | 77.63 | 3927 | 1401 | HW040+NMRV-P090 | TH80A4 | - | - |
| 14.0 | 1.5 | 2445 | 5.45 | 15.00 | 81.82 | 3658 | 1487 | HW030+NMRV-P075 | TH80B6 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.75 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 21.0 | 2.0 | 1618 | 5.45 | 15.00 | 81.82 | 3264 | 1289 | HW030+NMRV-P075 | TH71C4 | - | - |
| 21.0 | 2.0 | 1618 | 5.45 | 15.00 | 81.82 | 3264 | 1289 | HW030+NMRV-P075 | TH80A4 | - | - |
| 21.0 | 1.3 | 1576 | 5.45 | 15.00 | 81.82 | 2053 | 1092 | HW030+NMRV-P063 | TH71C4 | - | - |
| 21.0 | 1.3 | 1576 | 5.45 | 15.00 | 81.82 | 2053 | 1092 | HW030+NMRV-P063 | TH80A4 | - | - |
| 14.0 | 3.2 | 2565 | 4.20 | 20.00 | 84.00 | 8279 | 2097 | HW040+NMRV-P110 | TH80B6 | - | - |
| 14.0 | 2.2 | 2498 | 4.20 | 20.00 | 84.00 | 5608 | 1660 | HW040+NMRV-P090 | TH80B6 | - | - |
| 21.0 | 2.9 | 1662 | 4.20 | 20.00 | 84.00 | 4862 | 1439 | HW040+NMRV-P090 | TH71C4 | - | - |
| 21.0 | 2.9 | 1662 | 4.20 | 20.00 | 84.00 | 4862 | 1439 | HW040+NMRV-P090 | TH80A4 | - | - |
| 13.0 | 1.4 | 2298 | 2.94 | 30.00 | 88.33 | 3313 | 1525 | HW030+NMRV-P075 | TH80B6 | - | - |
| 20.0 | 1.8 | 1561 | 2.94 | 30.00 | 88.33 | 2873 | 1322 | HW030+NMRV-P075 | TH71C4 | - | - |
| 20.0 | 1.8 | 1561 | 2.94 | 30.00 | 88.33 | 2873 | 1322 | HW030+NMRV-P075 | TH80A4 | - | - |
| 20.0 | 1.2 | 1493 | 2.94 | 30.00 | 88.33 | 1778 | 1120 | HW030+NMRV-P063 | TH71C4 | - | - |
| 20.0 | 1.2 | 1493 | 2.94 | 30.00 | 88.33 | 1778 | 1120 | HW030+NMRV-P063 | TH80A4 | - | - |
| 12.0 | 2.3 | 2524 | 3.11 | 30.00 | 93.16 | 5680 | 1718 | HW040+NMRV-P090 | TH80B6 | - | - |
| 19.0 | 2.9 | 1709 | 3.11 | 30.00 | 93.16 | 4924 | 1489 | HW040+NMRV-P090 | TH71C4 | - | - |
| 19.0 | 2.9 | 1709 | 3.11 | 30.00 | 93.16 | 4924 | 1489 | HW040+NMRV-P090 | TH80A4 | - | - |
| 12.0 | 1.4 | 2699 | 4.75 | 20.00 | 95.00 | 3857 | 1563 | HW030+NMRV-P075 | TH80B6 | - | - |
| 18.0 | 1.9 | 1801 | 4.75 | 20.00 | 95.00 | 3366 | 1355 | HW030+NMRV-P075 | TH71C4 | - | - |
| 18.0 | 1.9 | 1801 | 4.75 | 20.00 | 95.00 | 3366 | 1355 | HW030+NMRV-P075 | TH80A4 | - | - |
| 18.0 | 1.1 | 1752 | 4.75 | 20.00 | 95.00 | 1997 | 1148 | HW030+NMRV-P063 | TH71C4 | - | - |
| 18.0 | 1.1 | 1752 | 4.75 | 20.00 | 95.00 | 1997 | 1148 | HW030+NMRV-P063 | TH80A4 | - | - |
| 11.0 | 3.2 | 3123 | 4.20 | 25.00 | 105.00 | 10083 | 2259 | HW040+NMRV-P110 | TH80B6 | - | - |
| 10.0 | 1.3 | 3082 | 5.45 | 20.00 | 109.09 | 3973 | 1636 | HW030+NMRV-P075 | TH80B6 | - | - |
| 16.0 | 1.7 | 2051 | 5.45 | 20.00 | 109.09 | 3525 | 1419 | HW030+NMRV-P075 | TH71C4 | - | - |
| 16.0 | 1.7 | 2051 | 5.45 | 20.00 | 109.09 | 3525 | 1419 | HW030+NMRV-P075 | TH80A4 | - | - |
| 16.0 | 1.1 | 1994 | 5.45 | 20.00 | 109.09 | 2099 | 1202 | HW030+NMRV-P063 | TH71C4 | - | - |
| 16.0 | 1.1 | 1994 | 5.45 | 20.00 | 109.09 | 2099 | 1202 | HW030+NMRV-P063 | TH80A4 | - | - |
| 10.0 | 1.9 | 3242 | 5.50 | 20.00 | 110.00 | 6135 | 1816 | HW040+NMRV-P090 | TH80B6 | - | - |
| 16.0 | 2.5 | 2146 | 5.50 | 20.00 | 110.00 | 5319 | 1574 | HW040+NMRV-P090 | TH71C4 | - | - |
| 16.0 | 2.5 | 2146 | 5.50 | 20.00 | 110.00 | 5319 | 1574 | HW040+NMRV-P090 | TH80A4 | - | - |
| 10.0 | 1.2 | 2962 | 3.87 | 30.00 | 116.00 | 3626 | 1659 | HW030+NMRV-P075 | TH80B6 | - | - |
| 15.0 | 1.6 | 1994 | 3.87 | 30.00 | 116.00 | 3144 | 1448 | HW030+NMRV-P075 | TH71C4 | - | - |
| 15.0 | 1.6 | 1994 | 3.87 | 30.00 | 116.00 | 3144 | 1448 | HW030+NMRV-P075 | TH80A4 | - | - |
| 15.0 | 1.0 | 2243 | 7.88 | 15.00 | 118.13 | 2320 | 1234 | HW030+NMRV-P063 | TH71C4 | - | - |
| 15.0 | 1.0 | 2243 | 7.88 | 15.00 | 118.13 | 2320 | 1234 | HW030+NMRV-P063 | TH80A4 | - | - |
| 9.0 | 3.3 | 3354 | 4.20 | 30.00 | 126.00 | 10901 | 2320 | HW040+NMRV-P110 | TH80B6 | - | - |
| 9.0 | 1.9 | 3351 | 4.20 | 30.00 | 126.00 | 6281 | 1839 | HW040+NMRV-P090 | TH80B6 | - | - |
| 14.0 | 2.4 | 2247 | 4.20 | 30.00 | 126.00 | 5445 | 1647 | HW040+NMRV-P090 | TH71C4 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.75 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 14.0 | 2.4 | 2247 | 4.20 | 30.00 | 126.00 | 5445 | 1647 | HW040+NMRV-P090 | TH80A4 | - | - |
| 13.0 | 1.3 | 2458 | 5.45 | 25.00 | 136.36 | 3183 | 1528 | HW030+NMRV-P075 | TH71C4 | - | - |
| 13.0 | 1.3 | 2458 | 5.45 | 25.00 | 136.36 | 3183 | 1528 | HW030+NMRV-P075 | TH80A4 | - | - |
| 8.0 | 2.1 | 4053 | 5.50 | 25.00 | 137.50 | 8475 | 2320 | HW040+NMRV-P110 | TH80B6 | - | - |
| 13.0 | 3.1 | 2683 | 5.50 | 25.00 | 137.50 | 8302 | 2143 | HW040+NMRV-P110 | TH71C4 | - | - |
| 13.0 | 3.1 | 2683 | 5.50 | 25.00 | 137.50 | 8302 | 2143 | HW040+NMRV-P110 | TH80A4 | - | - |
| 8.0 | 1.5 | 3890 | 5.50 | 25.00 | 137.50 | 5925 | 1839 | HW040+NMRV-P090 | TH80B6 | - | - |
| 13.0 | 2.0 | 2577 | 5.50 | 25.00 | 137.50 | 5235 | 1696 | HW040+NMRV-P090 | TH71C4 | - | - |
| 13.0 | 2.0 | 2577 | 5.50 | 25.00 | 137.50 | 5235 | 1696 | HW040+NMRV-P090 | TH80A4 | - | - |
| 8.0 | 1.1 | 3598 | 4.75 | 30.00 | 142.50 | 3886 | 1659 | HW030+NMRV-P075 | TH80B6 | - | - |
| 12.0 | 1.4 | 2408 | 4.75 | 30.00 | 142.50 | 3369 | 1551 | HW030+NMRV-P075 | TH71C4 | - | - |
| 12.0 | 1.4 | 2408 | 4.75 | 30.00 | 142.50 | 3369 | 1551 | HW030+NMRV-P075 | TH80A4 | - | - |
| 11.0 | 1.3 | 2459 | 3.87 | 40.00 | 154.67 | 3081 | 1594 | HW030+NMRV-P075 | TH71C4 | - | - |
| 11.0 | 1.3 | 2459 | 3.87 | 40.00 | 154.67 | 3081 | 1594 | HW030+NMRV-P075 | TH80A4 | - | - |
| 7.0 | 2.2 | 3900 | 3.11 | 50.00 | 155.26 | 8755 | 2320 | HW040+NMRV-P110 | TH80B6 | - | - |
| 11.0 | 2.8 | 2648 | 3.11 | 50.00 | 155.26 | 7326 | 2231 | HW040+NMRV-P110 | TH71C4 | - | - |
| 11.0 | 2.8 | 2648 | 3.11 | 50.00 | 155.26 | 7326 | 2231 | HW040+NMRV-P110 | TH80A4 | - | - |
| 7.0 | 1.3 | 3672 | 3.11 | 50.00 | 155.26 | 4874 | 1839 | HW040+NMRV-P090 | TH80B6 | - | - |
| 11.0 | 1.6 | 2521 | 3.11 | 50.00 | 155.26 | 4139 | 1766 | HW040+NMRV-P090 | TH71C4 | - | - |
| 11.0 | 1.6 | 2521 | 3.11 | 50.00 | 155.26 | 4139 | 1766 | HW040+NMRV-P090 | TH80A4 | - | - |
| 11.0 | 1.3 | 2738 | 5.45 | 30.00 | 163.64 | 3528 | 1624 | HW030+NMRV-P075 | TH71C4 | - | - |
| 11.0 | 1.3 | 2738 | 5.45 | 30.00 | 163.64 | 3528 | 1624 | HW030+NMRV-P075 | TH80A4 | - | - |
| 7.0 | 1.6 | 4333 | 5.50 | 30.00 | 165.00 | 6871 | 1839 | HW040+NMRV-P090 | TH80B6 | - | - |
| 11.0 | 2.1 | 2887 | 5.50 | 30.00 | 165.00 | 5957 | 1802 | HW040+NMRV-P090 | TH71C4 | - | - |
| 11.0 | 2.1 | 2887 | 5.50 | 30.00 | 165.00 | 5957 | 1802 | HW040+NMRV-P090 | TH80A4 | - | - |
| 7.0 | 2.4 | 4339 | 4.20 | 40.00 | 168.00 | 10558 | 2320 | HW040+NMRV-P110 | TH80B6 | - | - |
| 10.0 | 3.1 | 2929 | 4.20 | 40.00 | 168.00 | 8990 | 2291 | HW040+NMRV-P110 | TH71C4 | - | - |
| 10.0 | 3.1 | 2929 | 4.20 | 40.00 | 168.00 | 8990 | 2291 | HW040+NMRV-P110 | TH80A4 | - | - |
| 6.0 | 1.7 | 4407 | 3.11 | 60.00 | 186.32 | 7684 | 2320 | HW040+NMRV-P110 | TH80B6 | - | - |
| 9.0 | 2.2 | 3025 | 3.11 | 60.00 | 186.32 | 6543 | 2320 | HW040+NMRV-P110 | TH71C4 | - | - |
| 9.0 | 2.2 | 3025 | 3.11 | 60.00 | 186.32 | 6543 | 2320 | HW040+NMRV-P110 | TH80A4 | - | - |
| 6.0 | 1.0 | 4112 | 3.11 | 60.00 | 186.32 | 4301 | 1839 | HW040+NMRV-P090 | TH80B6 | - | - |
| 9.0 | 1.3 | 2833 | 3.11 | 60.00 | 186.32 | 3700 | 1839 | HW040+NMRV-P090 | TH71C4 | - | - |
| 9.0 | 1.3 | 2833 | 3.11 | 60.00 | 186.32 | 3700 | 1839 | HW040+NMRV-P090 | TH80A4 | - | - |
| 9.0 | 1.0 | 3482 | 7.88 | 25.00 | 196.88 | 3508 | 1659 | HW030+NMRV-P075 | TH71C4 | - | - |
| 9.0 | 1.0 | 3482 | 7.88 | 25.00 | 196.88 | 3508 | 1659 | HW030+NMRV-P075 | TH80A4 | - | - |
| 8.0 | 1.0 | 3370 | 5.45 | 40.00 | 218.18 | 3457 | 1659 | HW030+NMRV-P075 | TH71C4 | - | - |
| 8.0 | 1.0 | 3370 | 5.45 | 40.00 | 218.18 | 3457 | 1659 | HW030+NMRV-P075 | TH80A4 | - | - |

5.6 HELICAL WORM GEARMOTOR

0.75 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 5.0 | 2.0 | 5593 | 5.50 | 40.00 | 220.00 | 11144 | 2320 | HW040+NMRV-P110 | TH80B6 | - | - |
| 8.0 | 2.6 | 3747 | 5.50 | 40.00 | 220.00 | 9867 | 2320 | HW040+NMRV-P110 | TH71C4 | - | - |
| 8.0 | 2.6 | 3747 | 5.50 | 40.00 | 220.00 | 9867 | 2320 | HW040+NMRV-P110 | TH80A4 | - | - |
| 5.0 | 1.2 | 5343 | 5.50 | 40.00 | 220.00 | 6265 | 1839 | HW040+NMRV-P090 | TH80B6 | - | - |
| 8.0 | 1.5 | 3566 | 5.50 | 40.00 | 220.00 | 5432 | 1839 | HW040+NMRV-P090 | TH71C4 | - | - |
| 8.0 | 1.5 | 3566 | 5.50 | 40.00 | 220.00 | 5432 | 1839 | HW040+NMRV-P090 | TH80A4 | - | - |
| 7.0 | 1.0 | 3874 | 7.88 | 30.00 | 236.25 | 3987 | 1659 | HW030+NMRV-P075 | TH71C4 | - | - |
| 7.0 | 1.0 | 3874 | 7.88 | 30.00 | 236.25 | 3987 | 1659 | HW030+NMRV-P075 | TH80A4 | - | - |
| 4.5 | 1.5 | 5810 | 4.20 | 60.00 | 252.00 | 8701 | 2320 | HW040+NMRV-P110 | TH80B6 | - | - |
| 7.0 | 1.9 | 3939 | 4.20 | 60.00 | 252.00 | 7396 | 2320 | HW040+NMRV-P110 | TH71C4 | - | - |
| 7.0 | 1.9 | 3939 | 4.20 | 60.00 | 252.00 | 7396 | 2320 | HW040+NMRV-P110 | TH80A4 | - | - |
| 7.0 | 1.1 | 3680 | 4.20 | 60.00 | 252.00 | 4149 | 1839 | HW040+NMRV-P090 | TH71C4 | - | - |
| 7.0 | 1.1 | 3680 | 4.20 | 60.00 | 252.00 | 4149 | 1839 | HW040+NMRV-P090 | TH80A4 | - | - |
| 4.1 | 1.6 | 6678 | 5.50 | 50.00 | 275.00 | 10356 | 2320 | HW040+NMRV-P110 | TH80B6 | - | - |
| 6.0 | 2.0 | 4458 | 5.50 | 50.00 | 275.00 | 9111 | 2320 | HW040+NMRV-P110 | TH71C4 | - | - |
| 6.0 | 2.0 | 4458 | 5.50 | 50.00 | 275.00 | 9111 | 2320 | HW040+NMRV-P110 | TH80A4 | - | - |
| 6.0 | 1.2 | 4187 | 5.50 | 50.00 | 275.00 | 5075 | 1839 | HW040+NMRV-P090 | TH71C4 | - | - |
| 6.0 | 1.2 | 4187 | 5.50 | 50.00 | 275.00 | 5075 | 1839 | HW040+NMRV-P090 | TH80A4 | - | - |
| 3.7 | 1.4 | 7364 | 6.09 | 50.00 | 304.55 | 10199 | 2320 | HW040+NMRV-P110 | TH80B6 | - | - |
| 6.0 | 1.9 | 4904 | 6.09 | 50.00 | 304.55 | 9335 | 2320 | HW040+NMRV-P110 | TH71C4 | - | - |
| 6.0 | 1.9 | 4904 | 6.09 | 50.00 | 304.55 | 9335 | 2320 | HW040+NMRV-P110 | TH80A4 | - | - |
| 6.0 | 1.1 | 4598 | 6.09 | 50.00 | 304.55 | 5192 | 1839 | HW040+NMRV-P090 | TH71C4 | - | - |
| 6.0 | 1.1 | 4598 | 6.09 | 50.00 | 304.55 | 5192 | 1839 | HW040+NMRV-P090 | TH80A4 | - | - |
| 3.5 | 1.2 | 7476 | 5.50 | 60.00 | 330.00 | 9094 | 2320 | HW040+NMRV-P110 | TH80B6 | - | - |
| 5.0 | 1.6 | 5025 | 5.50 | 60.00 | 330.00 | 7968 | 2320 | HW040+NMRV-P110 | TH71C4 | - | - |
| 5.0 | 1.6 | 5025 | 5.50 | 60.00 | 330.00 | 7968 | 2320 | HW040+NMRV-P110 | TH80A4 | - | - |
| 4.6 | 1.4 | 6096 | 7.67 | 50.00 | 383.33 | 8294 | 2320 | HW040+NMRV-P110 | TH71C4 | - | - |
| 4.6 | 1.4 | 6096 | 7.67 | 50.00 | 383.33 | 8294 | 2320 | HW040+NMRV-P110 | TH80A4 | - | - |
| 4.0 | 1.1 | 6112 | 5.50 | 80.00 | 440.00 | 6637 | 2320 | HW040+NMRV-P110 | TH71C4 | - | - |
| 4.0 | 1.1 | 6112 | 5.50 | 80.00 | 440.00 | 6637 | 2320 | HW040+NMRV-P110 | TH80A4 | - | - |
| 3.8 | 1.2 | 6834 | 7.67 | 60.00 | 460.00 | 8491 | 2320 | HW040+NMRV-P110 | TH71C4 | - | - |
| 3.8 | 1.2 | 6834 | 7.67 | 60.00 | 460.00 | 8491 | 2320 | HW040+NMRV-P110 | TH80A4 | - | - |
| 3.3 | 1.0 | 7738 | 8.75 | 60.00 | 525.00 | 8008 | 2320 | HW040+NMRV-P110 | TH71C4 | - | - |

1 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 79.0 | 3.2 | 658 | 2.94 | 7.50 | 22.08 | 2133 | 833 | HW030+NMRV-P075 | TP80B4 | - | - |

5.6 HELICAL WORM GEARMOTOR

1 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 79.0 | 3.2 | 658 | 2.94 | 7.50 | 22.08 | 2133 | 833 | HW030+NMRV-P075 | TP80B4 | - | - |
| 79.0 | 3.2 | 658 | 2.94 | 7.50 | 22.08 | 2133 | 833 | HW030+NMRV-P075 | TP80B4 | - | - |
| 79.0 | 2.3 | 665 | 2.94 | 7.50 | 22.08 | 1538 | 706 | HW030+NMRV-P063 | TP80B4 | - | - |
| 79.0 | 2.3 | 665 | 2.94 | 7.50 | 22.08 | 1538 | 706 | HW030+NMRV-P063 | TP80B4 | - | - |
| 79.0 | 2.3 | 665 | 2.94 | 7.50 | 22.08 | 1538 | 706 | HW030+NMRV-P063 | TP80B4 | - | - |
| 79.0 | 1.3 | 650 | 2.94 | 7.50 | 22.08 | 820 | 540 | HA31+NMRV050 | TP80B4 | - | - |
| 79.0 | 1.3 | 650 | 2.94 | 7.50 | 22.08 | 820 | 540 | HA31+NMRV050 | TP80B4 | - | - |
| 79.0 | 1.3 | 650 | 2.94 | 7.50 | 22.08 | 820 | 540 | HA31+NMRV050 | TP80B4 | - | - |
| 60.0 | 2.8 | 857 | 3.87 | 7.50 | 29.00 | 2377 | 912 | HW030+NMRV-P075 | TP80B4 | - | - |
| 60.0 | 2.8 | 857 | 3.87 | 7.50 | 29.00 | 2377 | 912 | HW030+NMRV-P075 | TP80B4 | - | - |
| 60.0 | 2.8 | 857 | 3.87 | 7.50 | 29.00 | 2377 | 912 | HW030+NMRV-P075 | TP80B4 | - | - |
| 60.0 | 2.0 | 862 | 3.87 | 7.50 | 29.00 | 1682 | 773 | HW030+NMRV-P063 | TP80B4 | - | - |
| 60.0 | 2.0 | 862 | 3.87 | 7.50 | 29.00 | 1682 | 773 | HW030+NMRV-P063 | TP80B4 | - | - |
| 60.0 | 2.0 | 862 | 3.87 | 7.50 | 29.00 | 1682 | 773 | HW030+NMRV-P063 | TP80B4 | - | - |
| 59.0 | 1.1 | 846 | 2.94 | 10.00 | 29.44 | 956 | 594 | HA31+NMRV050 | TP80B4 | - | - |
| 59.0 | 1.1 | 846 | 2.94 | 10.00 | 29.44 | 956 | 594 | HA31+NMRV050 | TP80B4 | - | - |
| 59.0 | 1.1 | 846 | 2.94 | 10.00 | 29.44 | 956 | 594 | HA31+NMRV050 | TP80B4 | - | - |
| 45.0 | 2.2 | 1109 | 3.87 | 10.00 | 38.67 | 2469 | 1004 | HW030+NMRV-P075 | TP80B4 | - | - |
| 45.0 | 2.2 | 1109 | 3.87 | 10.00 | 38.67 | 2469 | 1004 | HW030+NMRV-P075 | TP80B4 | - | - |
| 45.0 | 2.2 | 1109 | 3.87 | 10.00 | 38.67 | 2469 | 1004 | HW030+NMRV-P075 | TP80B4 | - | - |
| 45.0 | 1.5 | 1095 | 3.87 | 10.00 | 38.67 | 1692 | 851 | HW030+NMRV-P063 | TP80B4 | - | - |
| 45.0 | 1.5 | 1095 | 3.87 | 10.00 | 38.67 | 1692 | 851 | HW030+NMRV-P063 | TP80B4 | - | - |
| 45.0 | 1.5 | 1095 | 3.87 | 10.00 | 38.67 | 1692 | 851 | HW030+NMRV-P063 | TP80B4 | - | - |
| 42.0 | 3.6 | 1230 | 4.20 | 10.00 | 42.00 | 4373 | 1142 | HW040+NMRV-P090 | TP80B4 | - | - |
| 42.0 | 3.6 | 1230 | 4.20 | 10.00 | 42.00 | 4373 | 1142 | HW040+NMRV-P090 | TP80B4 | - | - |
| 42.0 | 3.6 | 1230 | 4.20 | 10.00 | 42.00 | 4373 | 1142 | HW040+NMRV-P090 | TP80B4 | - | - |
| 42.0 | 3.6 | 1230 | 4.20 | 10.00 | 42.00 | 4373 | 1443 | HW040+NMRV-P110 | TP80B4 | - | - |
| 42.0 | 3.6 | 1230 | 4.20 | 10.00 | 42.00 | 4373 | 1443 | HW040+NMRV-P110 | TP80B4 | - | - |
| 42.0 | 3.6 | 1230 | 4.20 | 10.00 | 42.00 | 4373 | 1443 | HW040+NMRV-P110 | TP80B4 | - | - |
| 40.0 | 2.1 | 1236 | 2.94 | 15.00 | 44.17 | 2658 | 1049 | HW030+NMRV-P075 | TP80B4 | - | - |
| 40.0 | 2.1 | 1236 | 2.94 | 15.00 | 44.17 | 2658 | 1049 | HW030+NMRV-P075 | TP80B4 | - | - |
| 40.0 | 2.1 | 1236 | 2.94 | 15.00 | 44.17 | 2658 | 1049 | HW030+NMRV-P075 | TP80B4 | - | - |
| 40.0 | 1.4 | 1205 | 2.94 | 15.00 | 44.17 | 1672 | 889 | HW030+NMRV-P063 | TP80B4 | - | - |
| 40.0 | 1.4 | 1205 | 2.94 | 15.00 | 44.17 | 1672 | 889 | HW030+NMRV-P063 | TP80B4 | - | - |
| 40.0 | 1.4 | 1205 | 2.94 | 15.00 | 44.17 | 1672 | 889 | HW030+NMRV-P063 | TP80B4 | - | - |
| 38.0 | 3.4 | 1331 | 3.11 | 15.00 | 46.58 | 4584 | 1182 | HW040+NMRV-P090 | TP80B4 | - | - |
| 38.0 | 3.4 | 1331 | 3.11 | 15.00 | 46.58 | 4584 | 1182 | HW040+NMRV-P090 | TP80B4 | - | - |
| 38.0 | 3.4 | 1331 | 3.11 | 15.00 | 46.58 | 4584 | 1182 | HW040+NMRV-P090 | TP80B4 | - | - |

5.6 HELICAL WORM GEARMOTOR

1 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 37.0 | 2.0 | 1351 | 4.75 | 10.00 | 47.50 | 2646 | 1075 | HW030+NMRV-P075 | TP80B4 | - | - |
| 37.0 | 2.0 | 1351 | 4.75 | 10.00 | 47.50 | 2646 | 1075 | HW030+NMRV-P075 | TP80B4 | - | - |
| 37.0 | 2.0 | 1351 | 4.75 | 10.00 | 47.50 | 2646 | 1075 | HW030+NMRV-P075 | TP80B4 | - | - |
| 37.0 | 1.4 | 1334 | 4.75 | 10.00 | 47.50 | 1813 | 911 | HW030+NMRV-P063 | TP80B4 | - | - |
| 37.0 | 1.4 | 1334 | 4.75 | 10.00 | 47.50 | 1813 | 911 | HW030+NMRV-P063 | TP80B4 | - | - |
| 37.0 | 1.4 | 1334 | 4.75 | 10.00 | 47.50 | 1813 | 911 | HW030+NMRV-P063 | TP80B4 | - | - |
| 30.0 | 1.8 | 1593 | 3.87 | 15.00 | 58.00 | 2909 | 1149 | HW030+NMRV-P075 | TP80B4 | - | - |
| 30.0 | 1.8 | 1593 | 3.87 | 15.00 | 58.00 | 2909 | 1149 | HW030+NMRV-P075 | TP80B4 | - | - |
| 30.0 | 1.8 | 1593 | 3.87 | 15.00 | 58.00 | 2909 | 1149 | HW030+NMRV-P075 | TP80B4 | - | - |
| 30.0 | 1.2 | 1552 | 3.87 | 15.00 | 58.00 | 1829 | 974 | HW030+NMRV-P063 | TP80B4 | - | - |
| 30.0 | 1.2 | 1552 | 3.87 | 15.00 | 58.00 | 1829 | 974 | HW030+NMRV-P063 | TP80B4 | - | - |
| 30.0 | 1.2 | 1552 | 3.87 | 15.00 | 58.00 | 1829 | 974 | HW030+NMRV-P063 | TP80B4 | - | - |
| 28.0 | 4.0 | 1753 | 3.11 | 20.00 | 62.11 | 6932 | 1644 | HW040+NMRV-P110 | TP80B4 | - | - |
| 28.0 | 4.0 | 1753 | 3.11 | 20.00 | 62.11 | 6932 | 1644 | HW040+NMRV-P110 | TP80B4 | - | - |
| 28.0 | 4.0 | 1753 | 3.11 | 20.00 | 62.11 | 6932 | 1644 | HW040+NMRV-P110 | TP80B4 | - | - |
| 28.0 | 2.9 | 1766 | 4.20 | 15.00 | 63.00 | 5069 | 1307 | HW040+NMRV-P090 | TP80B4 | - | - |
| 28.0 | 2.9 | 1766 | 4.20 | 15.00 | 63.00 | 5069 | 1307 | HW040+NMRV-P090 | TP80B4 | - | - |
| 28.0 | 2.9 | 1766 | 4.20 | 15.00 | 63.00 | 5069 | 1307 | HW040+NMRV-P090 | TP80B4 | - | - |
| 25.0 | 1.6 | 1934 | 4.75 | 15.00 | 71.25 | 3117 | 1231 | HW030+NMRV-P075 | TP80B4 | - | - |
| 25.0 | 1.6 | 1934 | 4.75 | 15.00 | 71.25 | 3117 | 1231 | HW030+NMRV-P075 | TP80B4 | - | - |
| 25.0 | 1.6 | 1934 | 4.75 | 15.00 | 71.25 | 3117 | 1231 | HW030+NMRV-P075 | TP80B4 | - | - |
| 25.0 | 1.0 | 1884 | 4.75 | 15.00 | 71.25 | 1960 | 1043 | HW030+NMRV-P063 | TP80B4 | - | - |
| 25.0 | 1.0 | 1884 | 4.75 | 15.00 | 71.25 | 1960 | 1043 | HW030+NMRV-P063 | TP80B4 | - | - |
| 25.0 | 1.0 | 1884 | 4.75 | 15.00 | 71.25 | 1960 | 1043 | HW030+NMRV-P063 | TP80B4 | - | - |
| 25.0 | 1.0 | 1884 | 4.75 | 15.00 | 71.25 | 1960 | 1043 | HW030+NMRV-P063 | TP80B4 | - | - |
| 23.0 | 1.5 | 2030 | 3.87 | 20.00 | 77.33 | 3057 | 1265 | HW030+NMRV-P075 | TP80B4 | - | - |
| 23.0 | 1.5 | 2030 | 3.87 | 20.00 | 77.33 | 3057 | 1265 | HW030+NMRV-P075 | TP80B4 | - | - |
| 23.0 | 1.5 | 2030 | 3.87 | 20.00 | 77.33 | 3057 | 1265 | HW030+NMRV-P075 | TP80B4 | - | - |
| 23.0 | 3.4 | 2137 | 3.11 | 25.00 | 77.63 | 7335 | 1771 | HW040+NMRV-P110 | TP80B4 | - | - |
| 23.0 | 3.4 | 2137 | 3.11 | 25.00 | 77.63 | 7335 | 1771 | HW040+NMRV-P110 | TP80B4 | - | - |
| 23.0 | 3.4 | 2137 | 3.11 | 25.00 | 77.63 | 7335 | 1771 | HW040+NMRV-P110 | TP80B4 | - | - |
| 23.0 | 1.9 | 2055 | 3.11 | 25.00 | 77.63 | 3927 | 1401 | HW040+NMRV-P090 | TP80B4 | - | - |
| 23.0 | 1.9 | 2055 | 3.11 | 25.00 | 77.63 | 3927 | 1401 | HW040+NMRV-P090 | TP80B4 | - | - |
| 23.0 | 1.9 | 2055 | 3.11 | 25.00 | 77.63 | 3927 | 1401 | HW040+NMRV-P090 | TP80B4 | - | - |
| 21.0 | 1.5 | 2207 | 5.45 | 15.00 | 81.82 | 3264 | 1289 | HW030+NMRV-P075 | TP80B4 | - | - |
| 21.0 | 1.5 | 2207 | 5.45 | 15.00 | 81.82 | 3264 | 1289 | HW030+NMRV-P075 | TP80B4 | - | - |
| 21.0 | 1.5 | 2207 | 5.45 | 15.00 | 81.82 | 3264 | 1289 | HW030+NMRV-P075 | TP80B4 | - | - |
| 21.0 | 3.6 | 2325 | 4.20 | 20.00 | 84.00 | 8301 | 1818 | HW040+NMRV-P110 | TP80B4 | - | - |
| 21.0 | 3.6 | 2325 | 4.20 | 20.00 | 84.00 | 8301 | 1818 | HW040+NMRV-P110 | TP80B4 | - | - |

5.6 HELICAL WORM GEARMOTOR

1 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 21.0 | 3.6 | 2325 | 4.20 | 20.00 | 84.00 | 8301 | 1818 | HW040+NMRV-P110 | TP80B4 | - | - |
| 21.0 | 2.1 | 2266 | 4.20 | 20.00 | 84.00 | 4862 | 1439 | HW040+NMRV-P090 | TP80B4 | - | - |
| 21.0 | 2.1 | 2266 | 4.20 | 20.00 | 84.00 | 4862 | 1439 | HW040+NMRV-P090 | TP80B4 | - | - |
| 21.0 | 2.1 | 2266 | 4.20 | 20.00 | 84.00 | 4862 | 1439 | HW040+NMRV-P090 | TP80B4 | - | - |
| 20.0 | 1.3 | 2129 | 2.94 | 30.00 | 88.33 | 2873 | 1322 | HW030+NMRV-P075 | TP80B4 | - | - |
| 20.0 | 1.3 | 2129 | 2.94 | 30.00 | 88.33 | 2873 | 1322 | HW030+NMRV-P075 | TP80B4 | - | - |
| 20.0 | 1.3 | 2129 | 2.94 | 30.00 | 88.33 | 2873 | 1322 | HW030+NMRV-P075 | TP80B4 | - | - |
| 19.0 | 3.4 | 2357 | 3.11 | 30.00 | 93.16 | 8117 | 1882 | HW040+NMRV-P110 | TP80B4 | - | - |
| 19.0 | 3.4 | 2357 | 3.11 | 30.00 | 93.16 | 8117 | 1882 | HW040+NMRV-P110 | TP80B4 | - | - |
| 19.0 | 3.4 | 2357 | 3.11 | 30.00 | 93.16 | 8117 | 1882 | HW040+NMRV-P110 | TP80B4 | - | - |
| 19.0 | 2.1 | 2330 | 3.11 | 30.00 | 93.16 | 4924 | 1489 | HW040+NMRV-P090 | TP80B4 | - | - |
| 19.0 | 2.1 | 2330 | 3.11 | 30.00 | 93.16 | 4924 | 1489 | HW040+NMRV-P090 | TP80B4 | - | - |
| 19.0 | 2.1 | 2330 | 3.11 | 30.00 | 93.16 | 4924 | 1489 | HW040+NMRV-P090 | TP80B4 | - | - |
| 18.0 | 1.4 | 2456 | 4.75 | 20.00 | 95.00 | 3366 | 1355 | HW030+NMRV-P075 | TP80B4 | - | - |
| 18.0 | 1.4 | 2456 | 4.75 | 20.00 | 95.00 | 3366 | 1355 | HW030+NMRV-P075 | TP80B4 | - | - |
| 18.0 | 1.4 | 2456 | 4.75 | 20.00 | 95.00 | 3366 | 1355 | HW030+NMRV-P075 | TP80B4 | - | - |
| 17.0 | 3.2 | 2833 | 4.20 | 25.00 | 105.00 | 8976 | 1958 | HW040+NMRV-P110 | TP80B4 | - | - |
| 17.0 | 3.2 | 2833 | 4.20 | 25.00 | 105.00 | 8976 | 1958 | HW040+NMRV-P110 | TP80B4 | - | - |
| 17.0 | 3.2 | 2833 | 4.20 | 25.00 | 105.00 | 8976 | 1958 | HW040+NMRV-P110 | TP80B4 | - | - |
| 16.0 | 1.3 | 2796 | 5.45 | 20.00 | 109.09 | 3525 | 1419 | HW030+NMRV-P075 | TP80B4 | - | - |
| 16.0 | 1.3 | 2796 | 5.45 | 20.00 | 109.09 | 3525 | 1419 | HW030+NMRV-P075 | TP80B4 | - | - |
| 16.0 | 1.3 | 2796 | 5.45 | 20.00 | 109.09 | 3525 | 1419 | HW030+NMRV-P075 | TP80B4 | - | - |
| 16.0 | 1.8 | 2927 | 5.50 | 20.00 | 110.00 | 5319 | 1574 | HW040+NMRV-P090 | TP80B4 | - | - |
| 16.0 | 1.8 | 2927 | 5.50 | 20.00 | 110.00 | 5319 | 1574 | HW040+NMRV-P090 | TP80B4 | - | - |
| 16.0 | 1.8 | 2927 | 5.50 | 20.00 | 110.00 | 5319 | 1574 | HW040+NMRV-P090 | TP80B4 | - | - |
| 15.0 | 1.2 | 2719 | 3.87 | 30.00 | 116.00 | 3144 | 1448 | HW030+NMRV-P075 | TP80B4 | - | - |
| 15.0 | 1.2 | 2719 | 3.87 | 30.00 | 116.00 | 3144 | 1448 | HW030+NMRV-P075 | TP80B4 | - | - |
| 15.0 | 1.2 | 2719 | 3.87 | 30.00 | 116.00 | 3144 | 1448 | HW030+NMRV-P075 | TP80B4 | - | - |
| 14.0 | 3.2 | 3084 | 4.20 | 30.00 | 126.00 | 9812 | 2081 | HW040+NMRV-P110 | TP80B4 | - | - |
| 14.0 | 3.2 | 3084 | 4.20 | 30.00 | 126.00 | 9812 | 2081 | HW040+NMRV-P110 | TP80B4 | - | - |
| 14.0 | 3.2 | 3084 | 4.20 | 30.00 | 126.00 | 9812 | 2081 | HW040+NMRV-P110 | TP80B4 | - | - |
| 14.0 | 1.8 | 3065 | 4.20 | 30.00 | 126.00 | 5445 | 1647 | HW040+NMRV-P090 | TP80B4 | - | - |
| 14.0 | 1.8 | 3065 | 4.20 | 30.00 | 126.00 | 5445 | 1647 | HW040+NMRV-P090 | TP80B4 | - | - |
| 14.0 | 1.8 | 3065 | 4.20 | 30.00 | 126.00 | 5445 | 1647 | HW040+NMRV-P090 | TP80B4 | - | - |
| 13.0 | 2.3 | 3659 | 5.50 | 25.00 | 137.50 | 8302 | 2143 | HW040+NMRV-P110 | TP80B4 | - | - |
| 13.0 | 2.3 | 3659 | 5.50 | 25.00 | 137.50 | 8302 | 2143 | HW040+NMRV-P110 | TP80B4 | - | - |
| 13.0 | 2.3 | 3659 | 5.50 | 25.00 | 137.50 | 8302 | 2143 | HW040+NMRV-P110 | TP80B4 | - | - |
| 13.0 | 1.5 | 3514 | 5.50 | 25.00 | 137.50 | 5235 | 1696 | HW040+NMRV-P090 | TP80B4 | - | - |

5.6 HELICAL WORM GEARMOTOR

1 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 13.0 | 1.5 | 3514 | 5.50 | 25.00 | 137.50 | 5235 | 1696 | HW040+NMRV-P090 | TP80B4 | - | - |
| 13.0 | 1.5 | 3514 | 5.50 | 25.00 | 137.50 | 5235 | 1696 | HW040+NMRV-P090 | TP80B4 | - | - |
| 12.0 | 1.0 | 3284 | 4.75 | 30.00 | 142.50 | 3369 | 1551 | HW030+NMRV-P075 | TP80B4 | - | - |
| 12.0 | 1.0 | 3284 | 4.75 | 30.00 | 142.50 | 3369 | 1551 | HW030+NMRV-P075 | TP80B4 | - | - |
| 12.0 | 1.0 | 3284 | 4.75 | 30.00 | 142.50 | 3369 | 1551 | HW030+NMRV-P075 | TP80B4 | - | - |
| 11.0 | 2.0 | 3611 | 3.11 | 50.00 | 155.26 | 7326 | 2231 | HW040+NMRV-P110 | TP80B4 | - | - |
| 11.0 | 2.0 | 3611 | 3.11 | 50.00 | 155.26 | 7326 | 2231 | HW040+NMRV-P110 | TP80B4 | - | - |
| 11.0 | 2.0 | 3611 | 3.11 | 50.00 | 155.26 | 7326 | 2231 | HW040+NMRV-P110 | TP80B4 | - | - |
| 11.0 | 1.2 | 3438 | 3.11 | 50.00 | 155.26 | 4139 | 1766 | HW040+NMRV-P090 | TP80B4 | - | - |
| 11.0 | 1.2 | 3438 | 3.11 | 50.00 | 155.26 | 4139 | 1766 | HW040+NMRV-P090 | TP80B4 | - | - |
| 11.0 | 1.2 | 3438 | 3.11 | 50.00 | 155.26 | 4139 | 1766 | HW040+NMRV-P090 | TP80B4 | - | - |
| 11.0 | 1.5 | 3937 | 5.50 | 30.00 | 165.00 | 5957 | 1802 | HW040+NMRV-P090 | TP80B4 | - | - |
| 11.0 | 1.5 | 3937 | 5.50 | 30.00 | 165.00 | 5957 | 1802 | HW040+NMRV-P090 | TP80B4 | - | - |
| 11.0 | 1.5 | 3937 | 5.50 | 30.00 | 165.00 | 5957 | 1802 | HW040+NMRV-P090 | TP80B4 | - | - |
| 10.0 | 2.3 | 3994 | 4.20 | 40.00 | 168.00 | 8990 | 2291 | HW040+NMRV-P110 | TP80B4 | - | - |
| 10.0 | 2.3 | 3994 | 4.20 | 40.00 | 168.00 | 8990 | 2291 | HW040+NMRV-P110 | TP80B4 | - | - |
| 10.0 | 2.3 | 3994 | 4.20 | 40.00 | 168.00 | 8990 | 2291 | HW040+NMRV-P110 | TP80B4 | - | - |
| 9.0 | 1.6 | 4126 | 3.11 | 60.00 | 186.32 | 6543 | 2320 | HW040+NMRV-P110 | TP80B4 | - | - |
| 9.0 | 1.6 | 4126 | 3.11 | 60.00 | 186.32 | 6543 | 2320 | HW040+NMRV-P110 | TP80B4 | - | - |
| 9.0 | 1.6 | 4126 | 3.11 | 60.00 | 186.32 | 6543 | 2320 | HW040+NMRV-P110 | TP80B4 | - | - |
| 8.0 | 1.9 | 5109 | 5.50 | 40.00 | 220.00 | 9867 | 2320 | HW040+NMRV-P110 | TP80B4 | - | - |
| 8.0 | 1.9 | 5109 | 5.50 | 40.00 | 220.00 | 9867 | 2320 | HW040+NMRV-P110 | TP80B4 | - | - |
| 8.0 | 1.9 | 5109 | 5.50 | 40.00 | 220.00 | 9867 | 2320 | HW040+NMRV-P110 | TP80B4 | - | - |
| 8.0 | 1.1 | 4863 | 5.50 | 40.00 | 220.00 | 5432 | 1839 | HW040+NMRV-P090 | TP80B4 | - | - |
| 8.0 | 1.1 | 4863 | 5.50 | 40.00 | 220.00 | 5432 | 1839 | HW040+NMRV-P090 | TP80B4 | - | - |
| 8.0 | 1.1 | 4863 | 5.50 | 40.00 | 220.00 | 5432 | 1839 | HW040+NMRV-P090 | TP80B4 | - | - |
| 7.0 | 1.4 | 5372 | 4.20 | 60.00 | 252.00 | 7396 | 2320 | HW040+NMRV-P110 | TP80B4 | - | - |
| 7.0 | 1.4 | 5372 | 4.20 | 60.00 | 252.00 | 7396 | 2320 | HW040+NMRV-P110 | TP80B4 | - | - |
| 7.0 | 1.4 | 5372 | 4.20 | 60.00 | 252.00 | 7396 | 2320 | HW040+NMRV-P110 | TP80B4 | - | - |
| 6.0 | 1.5 | 6079 | 5.50 | 50.00 | 275.00 | 9111 | 2320 | HW040+NMRV-P110 | TP80B4 | - | - |
| 6.0 | 1.5 | 6079 | 5.50 | 50.00 | 275.00 | 9111 | 2320 | HW040+NMRV-P110 | TP80B4 | - | - |
| 6.0 | 1.5 | 6079 | 5.50 | 50.00 | 275.00 | 9111 | 2320 | HW040+NMRV-P110 | TP80B4 | - | - |
| 6.0 | 1.4 | 6688 | 6.09 | 50.00 | 304.55 | 9335 | 2320 | HW040+NMRV-P110 | TP80B4 | - | - |
| 6.0 | 1.4 | 6688 | 6.09 | 50.00 | 304.55 | 9335 | 2320 | HW040+NMRV-P110 | TP80B4 | - | - |
| 6.0 | 1.4 | 6688 | 6.09 | 50.00 | 304.55 | 9335 | 2320 | HW040+NMRV-P110 | TP80B4 | - | - |
| 5.0 | 1.2 | 6852 | 5.50 | 60.00 | 330.00 | 7968 | 2320 | HW040+NMRV-P110 | TP80B4 | - | - |
| 5.0 | 1.2 | 6852 | 5.50 | 60.00 | 330.00 | 7968 | 2320 | HW040+NMRV-P110 | TP80B4 | - | - |
| 5.0 | 1.2 | 6852 | 5.50 | 60.00 | 330.00 | 7968 | 2320 | HW040+NMRV-P110 | TP80B4 | - | - |

5.6 HELICAL WORM GEARMOTOR

1.5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 75.0 | 3.6 | 1038 | 3.11 | 7.50 | 23.29 | 3723 | 1185 | HW040+NMRV-P110 | TP90S4 | - | - |
| 75.0 | 3.6 | 1038 | 3.11 | 7.50 | 23.29 | 3723 | 1185 | HW040+NMRV-P110 | TP90S4 | - | - |
| 75.0 | 3.6 | 1038 | 3.11 | 7.50 | 23.29 | 3723 | 1185 | HW040+NMRV-P110 | TP90S4 | - | - |
| 75.0 | 3.6 | 1028 | 3.11 | 7.50 | 23.29 | 3672 | 938 | HW040+NMRV-P090 | TP90S4 | - | - |
| 75.0 | 3.6 | 1028 | 3.11 | 7.50 | 23.29 | 3672 | 938 | HW040+NMRV-P090 | TP90S4 | - | - |
| 75.0 | 3.6 | 1028 | 3.11 | 7.50 | 23.29 | 3672 | 938 | HW040+NMRV-P090 | TP90S4 | - | - |
| 56.0 | 3.6 | 1352 | 3.11 | 10.00 | 31.05 | 4851 | 1305 | HW040+NMRV-P110 | TP90S4 | - | - |
| 56.0 | 3.6 | 1352 | 3.11 | 10.00 | 31.05 | 4851 | 1305 | HW040+NMRV-P110 | TP90S4 | - | - |
| 56.0 | 3.6 | 1352 | 3.11 | 10.00 | 31.05 | 4851 | 1305 | HW040+NMRV-P110 | TP90S4 | - | - |
| 56.0 | 3.0 | 1352 | 3.11 | 10.00 | 31.05 | 4074 | 1033 | HW040+NMRV-P090 | TP90S4 | - | - |
| 56.0 | 3.0 | 1352 | 3.11 | 10.00 | 31.05 | 4074 | 1033 | HW040+NMRV-P090 | TP90S4 | - | - |
| 56.0 | 3.0 | 1352 | 3.11 | 10.00 | 31.05 | 4074 | 1033 | HW040+NMRV-P090 | TP90S4 | - | - |
| 42.0 | 2.4 | 1804 | 4.20 | 10.00 | 42.00 | 4373 | 1142 | HW040+NMRV-P090 | TP90S4 | - | - |
| 42.0 | 2.4 | 1804 | 4.20 | 10.00 | 42.00 | 4373 | 1142 | HW040+NMRV-P090 | TP90S4 | - | - |
| 42.0 | 2.4 | 1804 | 4.20 | 10.00 | 42.00 | 4373 | 1142 | HW040+NMRV-P090 | TP90S4 | - | - |
| 42.0 | 2.4 | 1804 | 4.20 | 10.00 | 42.00 | 4373 | 1443 | HW040+NMRV-P110 | TP90S4 | - | - |
| 42.0 | 2.4 | 1804 | 4.20 | 10.00 | 42.00 | 4373 | 1443 | HW040+NMRV-P110 | TP90S4 | - | - |
| 42.0 | 2.4 | 1804 | 4.20 | 10.00 | 42.00 | 4373 | 1443 | HW040+NMRV-P110 | TP90S4 | - | - |
| 38.0 | 3.6 | 1977 | 3.11 | 15.00 | 46.58 | 7124 | 1494 | HW040+NMRV-P110 | TP90S4 | - | - |
| 38.0 | 3.6 | 1977 | 3.11 | 15.00 | 46.58 | 7124 | 1494 | HW040+NMRV-P110 | TP90S4 | - | - |
| 38.0 | 3.6 | 1977 | 3.11 | 15.00 | 46.58 | 7124 | 1494 | HW040+NMRV-P110 | TP90S4 | - | - |
| 38.0 | 2.3 | 1953 | 3.11 | 15.00 | 46.58 | 4584 | 1182 | HW040+NMRV-P090 | TP90S4 | - | - |
| 38.0 | 2.3 | 1953 | 3.11 | 15.00 | 46.58 | 4584 | 1182 | HW040+NMRV-P090 | TP90S4 | - | - |
| 38.0 | 2.3 | 1953 | 3.11 | 15.00 | 46.58 | 4584 | 1182 | HW040+NMRV-P090 | TP90S4 | - | - |
| 38.0 | 2.3 | 1953 | 3.11 | 15.00 | 46.58 | 4584 | 1182 | HW040+NMRV-P090 | TP90S4 | - | - |
| 28.0 | 2.7 | 2572 | 3.11 | 20.00 | 62.11 | 6932 | 1644 | HW040+NMRV-P110 | TP90S4 | - | - |
| 28.0 | 2.7 | 2572 | 3.11 | 20.00 | 62.11 | 6932 | 1644 | HW040+NMRV-P110 | TP90S4 | - | - |
| 28.0 | 2.7 | 2572 | 3.11 | 20.00 | 62.11 | 6932 | 1644 | HW040+NMRV-P110 | TP90S4 | - | - |
| 28.0 | 2.0 | 2590 | 4.20 | 15.00 | 63.00 | 5069 | 1307 | HW040+NMRV-P090 | TP90S4 | - | - |
| 28.0 | 2.0 | 2590 | 4.20 | 15.00 | 63.00 | 5069 | 1307 | HW040+NMRV-P090 | TP90S4 | - | - |
| 28.0 | 2.0 | 2590 | 4.20 | 15.00 | 63.00 | 5069 | 1307 | HW040+NMRV-P090 | TP90S4 | - | - |
| 23.0 | 2.3 | 3134 | 3.11 | 25.00 | 77.63 | 7335 | 1771 | HW040+NMRV-P110 | TP90S4 | - | - |
| 23.0 | 2.3 | 3134 | 3.11 | 25.00 | 77.63 | 7335 | 1771 | HW040+NMRV-P110 | TP90S4 | - | - |
| 23.0 | 2.3 | 3134 | 3.11 | 25.00 | 77.63 | 7335 | 1771 | HW040+NMRV-P110 | TP90S4 | - | - |
| 23.0 | 1.3 | 3014 | 3.11 | 25.00 | 77.63 | 3927 | 1401 | HW040+NMRV-P090 | TP90S4 | - | - |
| 23.0 | 1.3 | 3014 | 3.11 | 25.00 | 77.63 | 3927 | 1401 | HW040+NMRV-P090 | TP90S4 | - | - |
| 23.0 | 1.3 | 3014 | 3.11 | 25.00 | 77.63 | 3927 | 1401 | HW040+NMRV-P090 | TP90S4 | - | - |
| 21.0 | 2.4 | 3410 | 4.20 | 20.00 | 84.00 | 8301 | 1818 | HW040+NMRV-P110 | TP90S4 | - | - |
| 21.0 | 2.4 | 3410 | 4.20 | 20.00 | 84.00 | 8301 | 1818 | HW040+NMRV-P110 | TP90S4 | - | - |

1.5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 21.0 | 2.4 | 3410 | 4.20 | 20.00 | 84.00 | 8301 | 1818 | HW040+NMRV-P110 | TP90S4 | - | - |
| 21.0 | 1.5 | 3324 | 4.20 | 20.00 | 84.00 | 4862 | 1439 | HW040+NMRV-P090 | TP90S4 | - | - |
| 21.0 | 1.5 | 3324 | 4.20 | 20.00 | 84.00 | 4862 | 1439 | HW040+NMRV-P090 | TP90S4 | - | - |
| 21.0 | 1.5 | 3324 | 4.20 | 20.00 | 84.00 | 4862 | 1439 | HW040+NMRV-P090 | TP90S4 | - | - |
| 19.0 | 2.3 | 3458 | 3.11 | 30.00 | 93.16 | 8117 | 1882 | HW040+NMRV-P110 | TP90S4 | - | - |
| 19.0 | 2.3 | 3458 | 3.11 | 30.00 | 93.16 | 8117 | 1882 | HW040+NMRV-P110 | TP90S4 | - | - |
| 19.0 | 2.3 | 3458 | 3.11 | 30.00 | 93.16 | 8117 | 1882 | HW040+NMRV-P110 | TP90S4 | - | - |
| 19.0 | 1.4 | 3417 | 3.11 | 30.00 | 93.16 | 4924 | 1489 | HW040+NMRV-P090 | TP90S4 | - | - |
| 19.0 | 1.4 | 3417 | 3.11 | 30.00 | 93.16 | 4924 | 1489 | HW040+NMRV-P090 | TP90S4 | - | - |
| 19.0 | 1.4 | 3417 | 3.11 | 30.00 | 93.16 | 4924 | 1489 | HW040+NMRV-P090 | TP90S4 | - | - |
| 19.0 | 1.4 | 3417 | 3.11 | 30.00 | 93.16 | 4924 | 1489 | HW040+NMRV-P090 | TP90S4 | - | - |
| 17.0 | 2.2 | 4155 | 4.20 | 25.00 | 105.00 | 8976 | 1958 | HW040+NMRV-P110 | TP90S4 | - | - |
| 17.0 | 2.2 | 4155 | 4.20 | 25.00 | 105.00 | 8976 | 1958 | HW040+NMRV-P110 | TP90S4 | - | - |
| 17.0 | 2.2 | 4155 | 4.20 | 25.00 | 105.00 | 8976 | 1958 | HW040+NMRV-P110 | TP90S4 | - | - |
| 16.0 | 1.2 | 4293 | 5.50 | 20.00 | 110.00 | 5319 | 1574 | HW040+NMRV-P090 | TP90S4 | - | - |
| 16.0 | 1.2 | 4293 | 5.50 | 20.00 | 110.00 | 5319 | 1574 | HW040+NMRV-P090 | TP90S4 | - | - |
| 16.0 | 1.2 | 4293 | 5.50 | 20.00 | 110.00 | 5319 | 1574 | HW040+NMRV-P090 | TP90S4 | - | - |
| 14.0 | 2.2 | 4524 | 4.20 | 30.00 | 126.00 | 9812 | 2081 | HW040+NMRV-P110 | TP90S4 | - | - |
| 14.0 | 2.2 | 4524 | 4.20 | 30.00 | 126.00 | 9812 | 2081 | HW040+NMRV-P110 | TP90S4 | - | - |
| 14.0 | 2.2 | 4524 | 4.20 | 30.00 | 126.00 | 9812 | 2081 | HW040+NMRV-P110 | TP90S4 | - | - |
| 14.0 | 1.2 | 4495 | 4.20 | 30.00 | 126.00 | 5445 | 1647 | HW040+NMRV-P090 | TP90S4 | - | - |
| 14.0 | 1.2 | 4495 | 4.20 | 30.00 | 126.00 | 5445 | 1647 | HW040+NMRV-P090 | TP90S4 | - | - |
| 14.0 | 1.2 | 4495 | 4.20 | 30.00 | 126.00 | 5445 | 1647 | HW040+NMRV-P090 | TP90S4 | - | - |
| 13.0 | 1.5 | 5366 | 5.50 | 25.00 | 137.50 | 8302 | 2143 | HW040+NMRV-P110 | TP90S4 | - | - |
| 13.0 | 1.5 | 5366 | 5.50 | 25.00 | 137.50 | 8302 | 2143 | HW040+NMRV-P110 | TP90S4 | - | - |
| 13.0 | 1.5 | 5366 | 5.50 | 25.00 | 137.50 | 8302 | 2143 | HW040+NMRV-P110 | TP90S4 | - | - |
| 13.0 | 1.0 | 5154 | 5.50 | 25.00 | 137.50 | 5235 | 1696 | HW040+NMRV-P090 | TP90S4 | - | - |
| 13.0 | 1.0 | 5154 | 5.50 | 25.00 | 137.50 | 5235 | 1696 | HW040+NMRV-P090 | TP90S4 | - | - |
| 13.0 | 1.0 | 5154 | 5.50 | 25.00 | 137.50 | 5235 | 1696 | HW040+NMRV-P090 | TP90S4 | - | - |
| 11.0 | 1.4 | 5296 | 3.11 | 50.00 | 155.26 | 7326 | 2231 | HW040+NMRV-P110 | TP90S4 | - | - |
| 11.0 | 1.4 | 5296 | 3.11 | 50.00 | 155.26 | 7326 | 2231 | HW040+NMRV-P110 | TP90S4 | - | - |
| 11.0 | 1.4 | 5296 | 3.11 | 50.00 | 155.26 | 7326 | 2231 | HW040+NMRV-P110 | TP90S4 | - | - |
| 11.0 | 1.0 | 5775 | 5.50 | 30.00 | 165.00 | 5957 | 1802 | HW040+NMRV-P090 | TP90S4 | - | - |
| 11.0 | 1.0 | 5775 | 5.50 | 30.00 | 165.00 | 5957 | 1802 | HW040+NMRV-P090 | TP90S4 | - | - |
| 11.0 | 1.0 | 5775 | 5.50 | 30.00 | 165.00 | 5957 | 1802 | HW040+NMRV-P090 | TP90S4 | - | - |
| 10.0 | 1.5 | 5859 | 4.20 | 40.00 | 168.00 | 8990 | 2291 | HW040+NMRV-P110 | TP90S4 | - | - |
| 10.0 | 1.5 | 5859 | 4.20 | 40.00 | 168.00 | 8990 | 2291 | HW040+NMRV-P110 | TP90S4 | - | - |
| 10.0 | 1.5 | 5859 | 4.20 | 40.00 | 168.00 | 8990 | 2291 | HW040+NMRV-P110 | TP90S4 | - | - |
| 9.0 | 1.1 | 6051 | 3.11 | 60.00 | 186.32 | 6543 | 2320 | HW040+NMRV-P110 | TP90S4 | - | - |

5.6 HELICAL WORM GEARMOTOR

1.5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 9.0 | 1.1 | 6051 | 3.11 | 60.00 | 186.32 | 6543 | 2320 | HW040+NMRV-P110 | TP90S4 | - | - |
| 9.0 | 1.1 | 6051 | 3.11 | 60.00 | 186.32 | 6543 | 2320 | HW040+NMRV-P110 | TP90S4 | - | - |
| 8.0 | 1.3 | 7493 | 5.50 | 40.00 | 220.00 | 9867 | 2320 | HW040+NMRV-P110 | TP90S4 | - | - |
| 8.0 | 1.3 | 7493 | 5.50 | 40.00 | 220.00 | 9867 | 2320 | HW040+NMRV-P110 | TP90S4 | - | - |
| 8.0 | 1.3 | 7493 | 5.50 | 40.00 | 220.00 | 9867 | 2320 | HW040+NMRV-P110 | TP90S4 | - | - |
| 6.0 | 1.0 | 8916 | 5.50 | 50.00 | 275.00 | 9111 | 2320 | HW040+NMRV-P110 | TP90S4 | - | - |
| 6.0 | 1.0 | 8916 | 5.50 | 50.00 | 275.00 | 9111 | 2320 | HW040+NMRV-P110 | TP90S4 | - | - |
| 6.0 | 1.0 | 8916 | 5.50 | 50.00 | 275.00 | 9111 | 2320 | HW040+NMRV-P110 | TP90S4 | - | - |

2 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 75.0 | 2.6 | 1416 | 3.11 | 7.50 | 23.29 | 3723 | 1185 | HW040+NMRV-P110 | TP90L4 | - | - |
| 75.0 | 2.6 | 1416 | 3.11 | 7.50 | 23.29 | 3723 | 1185 | HW040+NMRV-P110 | TP90L4 | - | - |
| 75.0 | 2.6 | 1416 | 3.11 | 7.50 | 23.29 | 3723 | 1185 | HW040+NMRV-P110 | TP90L4 | - | - |
| 75.0 | 2.6 | 1402 | 3.11 | 7.50 | 23.29 | 3672 | 938 | HW040+NMRV-P090 | TP90L4 | - | - |
| 75.0 | 2.6 | 1402 | 3.11 | 7.50 | 23.29 | 3672 | 938 | HW040+NMRV-P090 | TP90L4 | - | - |
| 75.0 | 2.6 | 1402 | 3.11 | 7.50 | 23.29 | 3672 | 938 | HW040+NMRV-P090 | TP90L4 | - | - |
| 56.0 | 2.6 | 1844 | 3.11 | 10.00 | 31.05 | 4851 | 1305 | HW040+NMRV-P110 | TP90L4 | - | - |
| 56.0 | 2.6 | 1844 | 3.11 | 10.00 | 31.05 | 4851 | 1305 | HW040+NMRV-P110 | TP90L4 | - | - |
| 56.0 | 2.6 | 1844 | 3.11 | 10.00 | 31.05 | 4851 | 1305 | HW040+NMRV-P110 | TP90L4 | - | - |
| 56.0 | 2.2 | 1844 | 3.11 | 10.00 | 31.05 | 4074 | 1033 | HW040+NMRV-P090 | TP90L4 | - | - |
| 56.0 | 2.2 | 1844 | 3.11 | 10.00 | 31.05 | 4074 | 1033 | HW040+NMRV-P090 | TP90L4 | - | - |
| 56.0 | 2.2 | 1844 | 3.11 | 10.00 | 31.05 | 4074 | 1033 | HW040+NMRV-P090 | TP90L4 | - | - |
| 42.0 | 1.8 | 2460 | 4.20 | 10.00 | 42.00 | 4373 | 1142 | HW040+NMRV-P090 | TP90L4 | - | - |
| 42.0 | 1.8 | 2460 | 4.20 | 10.00 | 42.00 | 4373 | 1142 | HW040+NMRV-P090 | TP90L4 | - | - |
| 42.0 | 1.8 | 2460 | 4.20 | 10.00 | 42.00 | 4373 | 1142 | HW040+NMRV-P090 | TP90L4 | - | - |
| 42.0 | 1.8 | 2460 | 4.20 | 10.00 | 42.00 | 4373 | 1443 | HW040+NMRV-P110 | TP90L4 | - | - |
| 42.0 | 1.8 | 2460 | 4.20 | 10.00 | 42.00 | 4373 | 1443 | HW040+NMRV-P110 | TP90L4 | - | - |
| 42.0 | 1.8 | 2460 | 4.20 | 10.00 | 42.00 | 4373 | 1443 | HW040+NMRV-P110 | TP90L4 | - | - |
| 38.0 | 2.6 | 2695 | 3.11 | 15.00 | 46.58 | 7124 | 1494 | HW040+NMRV-P110 | TP90L4 | - | - |
| 38.0 | 2.6 | 2695 | 3.11 | 15.00 | 46.58 | 7124 | 1494 | HW040+NMRV-P110 | TP90L4 | - | - |
| 38.0 | 2.6 | 2695 | 3.11 | 15.00 | 46.58 | 7124 | 1494 | HW040+NMRV-P110 | TP90L4 | - | - |
| 38.0 | 1.7 | 2663 | 3.11 | 15.00 | 46.58 | 4584 | 1182 | HW040+NMRV-P090 | TP90L4 | - | - |
| 38.0 | 1.7 | 2663 | 3.11 | 15.00 | 46.58 | 4584 | 1182 | HW040+NMRV-P090 | TP90L4 | - | - |
| 38.0 | 1.7 | 2663 | 3.11 | 15.00 | 46.58 | 4584 | 1182 | HW040+NMRV-P090 | TP90L4 | - | - |
| 28.0 | 2.0 | 3507 | 3.11 | 20.00 | 62.11 | 6932 | 1644 | HW040+NMRV-P110 | TP90L4 | - | - |
| 28.0 | 2.0 | 3507 | 3.11 | 20.00 | 62.11 | 6932 | 1644 | HW040+NMRV-P110 | TP90L4 | - | - |

5.6 HELICAL WORM GEARMOTOR

2 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|-----------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 28.0 | 2.0 | 3507 | 3.11 | 20.00 | 62.11 | 6932 | 1644 | HW040+NMRV-P110 | TP90L4 | - | - |
| 28.0 | 1.4 | 3532 | 4.20 | 15.00 | 63.00 | 5069 | 1307 | HW040+NMRV-P090 | TP90L4 | - | - |
| 28.0 | 1.4 | 3532 | 4.20 | 15.00 | 63.00 | 5069 | 1307 | HW040+NMRV-P090 | TP90L4 | - | - |
| 28.0 | 1.4 | 3532 | 4.20 | 15.00 | 63.00 | 5069 | 1307 | HW040+NMRV-P090 | TP90L4 | - | - |
| 23.0 | 1.7 | 4274 | 3.11 | 25.00 | 77.63 | 7335 | 1771 | HW040+NMRV-P110 | TP90L4 | - | - |
| 23.0 | 1.7 | 4274 | 3.11 | 25.00 | 77.63 | 7335 | 1771 | HW040+NMRV-P110 | TP90L4 | - | - |
| 23.0 | 1.7 | 4274 | 3.11 | 25.00 | 77.63 | 7335 | 1771 | HW040+NMRV-P110 | TP90L4 | - | - |
| 21.0 | 1.8 | 4650 | 4.20 | 20.00 | 84.00 | 8301 | 1818 | HW040+NMRV-P110 | TP90L4 | - | - |
| 21.0 | 1.8 | 4650 | 4.20 | 20.00 | 84.00 | 8301 | 1818 | HW040+NMRV-P110 | TP90L4 | - | - |
| 21.0 | 1.8 | 4650 | 4.20 | 20.00 | 84.00 | 8301 | 1818 | HW040+NMRV-P110 | TP90L4 | - | - |
| 21.0 | 1.1 | 4532 | 4.20 | 20.00 | 84.00 | 4862 | 1439 | HW040+NMRV-P090 | TP90L4 | - | - |
| 21.0 | 1.1 | 4532 | 4.20 | 20.00 | 84.00 | 4862 | 1439 | HW040+NMRV-P090 | TP90L4 | - | - |
| 21.0 | 1.1 | 4532 | 4.20 | 20.00 | 84.00 | 4862 | 1439 | HW040+NMRV-P090 | TP90L4 | - | - |
| 19.0 | 1.7 | 4715 | 3.11 | 30.00 | 93.16 | 8117 | 1882 | HW040+NMRV-P110 | TP90L4 | - | - |
| 19.0 | 1.7 | 4715 | 3.11 | 30.00 | 93.16 | 8117 | 1882 | HW040+NMRV-P110 | TP90L4 | - | - |
| 19.0 | 1.7 | 4715 | 3.11 | 30.00 | 93.16 | 8117 | 1882 | HW040+NMRV-P110 | TP90L4 | - | - |
| 19.0 | 1.1 | 4660 | 3.11 | 30.00 | 93.16 | 4924 | 1489 | HW040+NMRV-P090 | TP90L4 | - | - |
| 19.0 | 1.1 | 4660 | 3.11 | 30.00 | 93.16 | 4924 | 1489 | HW040+NMRV-P090 | TP90L4 | - | - |
| 19.0 | 1.1 | 4660 | 3.11 | 30.00 | 93.16 | 4924 | 1489 | HW040+NMRV-P090 | TP90L4 | - | - |
| 17.0 | 1.6 | 5665 | 4.20 | 25.00 | 105.00 | 8976 | 1958 | HW040+NMRV-P110 | TP90L4 | - | - |
| 17.0 | 1.6 | 5665 | 4.20 | 25.00 | 105.00 | 8976 | 1958 | HW040+NMRV-P110 | TP90L4 | - | - |
| 17.0 | 1.6 | 5665 | 4.20 | 25.00 | 105.00 | 8976 | 1958 | HW040+NMRV-P110 | TP90L4 | - | - |
| 14.0 | 1.6 | 6169 | 4.20 | 30.00 | 126.00 | 9812 | 2081 | HW040+NMRV-P110 | TP90L4 | - | - |
| 14.0 | 1.6 | 6169 | 4.20 | 30.00 | 126.00 | 9812 | 2081 | HW040+NMRV-P110 | TP90L4 | - | - |
| 14.0 | 1.6 | 6169 | 4.20 | 30.00 | 126.00 | 9812 | 2081 | HW040+NMRV-P110 | TP90L4 | - | - |
| 13.0 | 1.1 | 7318 | 5.50 | 25.00 | 137.50 | 8302 | 2143 | HW040+NMRV-P110 | TP90L4 | - | - |
| 13.0 | 1.1 | 7318 | 5.50 | 25.00 | 137.50 | 8302 | 2143 | HW040+NMRV-P110 | TP90L4 | - | - |
| 13.0 | 1.1 | 7318 | 5.50 | 25.00 | 137.50 | 8302 | 2143 | HW040+NMRV-P110 | TP90L4 | - | - |
| 11.0 | 1.0 | 7221 | 3.11 | 50.00 | 155.26 | 7326 | 2231 | HW040+NMRV-P110 | TP90L4 | - | - |
| 11.0 | 1.0 | 7221 | 3.11 | 50.00 | 155.26 | 7326 | 2231 | HW040+NMRV-P110 | TP90L4 | - | - |
| 11.0 | 1.0 | 7221 | 3.11 | 50.00 | 155.26 | 7326 | 2231 | HW040+NMRV-P110 | TP90L4 | - | - |
| 10.0 | 1.1 | 7989 | 4.20 | 40.00 | 168.00 | 8990 | 2291 | HW040+NMRV-P110 | TP90L4 | - | - |
| 10.0 | 1.1 | 7989 | 4.20 | 40.00 | 168.00 | 8990 | 2291 | HW040+NMRV-P110 | TP90L4 | - | - |
| 10.0 | 1.1 | 7989 | 4.20 | 40.00 | 168.00 | 8990 | 2291 | HW040+NMRV-P110 | TP90L4 | - | - |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 549 | 51.6 | 22.08 | 5.01 | 417 | - | HA31+NMRV040 | - |
| 583 | 48.0 | 23.75 | 4.86 | 494 | - | HA31+NMRV040 | - |
| 591 | 44.7 | 25.50 | 4.6 | 494 | - | HA31+NMRV040 | - |
| 562 | 38.7 | 29.44 | 3.96 | 459 | - | HA31+NMRV040 | - |
| 602 | 36.2 | 31.50 | 3.8 | 494 | - | HA31+NMRV040 | - |
| 618 | 32.0 | 35.63 | 3.56 | 566 | - | HA31+NMRV040 | - |
| 633 | 27.9 | 40.91 | 3.19 | 566 | - | HA31+NMRV040 | - |
| 577 | 25.8 | 44.17 | 2.88 | 525 | - | HA31+NMRV040 | - |
| 614 | 24.0 | 47.50 | 2.75 | 622 | - | HA31+NMRV040 | - |
| 625 | 20.9 | 54.55 | 2.45 | 622 | - | HA31+NMRV040 | - |
| 531 | 19.4 | 58.89 | 2.08 | 578 | - | HA31+NMRV040 | - |
| 628 | 18.1 | 63.00 | 2.14 | 622 | - | HA31+NMRV040 | - |
| 624 | 16.0 | 71.25 | 1.97 | 713 | - | HA31+NMRV040 | - |
| 628 | 14.5 | 78.75 | 1.71 | 622 | - | HA31+NMRV040 | - |
| 585 | 12.9 | 88.33 | 1.76 | 661 | - | HA31+NMRV040 | - |
| 637 | 12.1 | 94.50 | 1.52 | 713 | - | HA31+NMRV040 | - |
| 570 | 11.2 | 102.00 | 1.33 | 784 | - | HA31+NMRV040 | - |
| 573 | 10.4 | 109.09 | 1.25 | 784 | - | HA31+NMRV040 | - |
| 637 | 9.7 | 118.13 | 1.22 | 713 | - | HA31+NMRV040 | - |
| 533 | 8.9 | 127.50 | 1.06 | 785 | - | HA31+NMRV040 | - |
| 633 | 8.0 | 142.50 | 1.23 | 785 | - | HA31+NMRV040 | - |
| 556 | 7.4 | 154.67 | 1.08 | 785 | - | HA31+NMRV040 | - |
| 643 | 7.0 | 163.64 | 1.1 | 785 | - | HA31+NMRV040 | - |
| 646 | 6.0 | 189.00 | 0.96 | 785 | - | HA31+NMRV040 | - |
| 570 | 5.6 | 204.00 | 0.86 | 785 | - | HA31+NMRV040 | - |
| 877 | 51.6 | 22.08 | 7.91 | 572 | - | HA31+NMRV050 | - |
| 647 | 48.0 | 23.75 | 5.39 | 678 | - | HA31+NMRV050 | - |
| 675 | 44.7 | 25.50 | 5.25 | 678 | - | HA31+NMRV050 | - |
| 1080 | 38.7 | 29.44 | 7.48 | 629 | - | HA31+NMRV050 | - |
| 673 | 36.2 | 31.50 | 4.25 | 678 | - | HA31+NMRV050 | - |
| 948 | 32.0 | 35.63 | 5.4 | 776 | - | HA31+NMRV050 | - |
| 987 | 27.9 | 40.91 | 4.91 | 776 | - | HA31+NMRV050 | - |
| 1073 | 25.8 | 44.17 | 5.31 | 721 | - | HA31+NMRV050 | - |
| 1184 | 24.0 | 47.50 | 5.18 | 854 | - | HA31+NMRV050 | - |
| 1206 | 20.9 | 54.55 | 4.61 | 854 | - | HA31+NMRV050 | - |
| 952 | 19.4 | 58.89 | 3.7 | 793 | - | HA31+NMRV050 | - |
| 1213 | 18.1 | 63.00 | 4.02 | 854 | - | HA31+NMRV050 | - |
| 1169 | 16.0 | 71.25 | 3.68 | 978 | - | HA31+NMRV050 | - |
| 1213 | 14.5 | 78.75 | 3.22 | 854 | - | HA31+NMRV050 | - |
| 1107 | 12.9 | 88.33 | 3.28 | 908 | - | HA31+NMRV050 | - |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 1195 | 12.1 | 94.50 | 2.86 | 978 | - | HA31+NMRV050 | - |
| 1048 | 11.2 | 102.00 | 2.44 | 1076 | - | HA31+NMRV050 | - |
| 1057 | 10.4 | 109.09 | 2.31 | 1076 | - | HA31+NMRV050 | - |
| 1195 | 9.7 | 118.13 | 2.29 | 978 | - | HA31+NMRV050 | - |
| 961 | 8.9 | 127.50 | 1.9 | 1088 | - | HA31+NMRV050 | - |
| 1246 | 8.0 | 142.50 | 2.38 | 1088 | - | HA31+NMRV050 | - |
| 1044 | 7.4 | 154.67 | 1.99 | 1088 | - | HA31+NMRV050 | - |
| 1275 | 7.0 | 163.64 | 2.14 | 1088 | - | HA31+NMRV050 | - |
| 1283 | 6.0 | 189.00 | 1.87 | 1088 | - | HA31+NMRV050 | - |
| 1084 | 5.6 | 204.00 | 1.61 | 1088 | - | HA31+NMRV050 | - |
| 1283 | 4.8 | 236.25 | 1.49 | 1088 | - | HA31+NMRV050 | - |
| 1097 | 4.5 | 252.00 | 1.33 | 1088 | - | HA31+NMRV050 | - |
| 1056 | 4.2 | 272.73 | 1.27 | 1088 | - | HA31+NMRV050 | - |
| 908 | 4.0 | 285.00 | 1.12 | 1088 | - | HA31+NMRV050 | - |
| 1062 | 3.6 | 315.00 | 1.11 | 1088 | - | HA31+NMRV050 | - |
| 1773 | 51.6 | 22.08 | 1.76 | 748 | - | HW030+NMRV-P063 | - |
| 1941 | 39.3 | 29.00 | 1.48 | 1015 | - | HW030+NMRV-P063 | - |
| 1951 | 29.5 | 38.67 | 1.17 | 1117 | - | HW030+NMRV-P063 | - |
| 1928 | 25.8 | 44.17 | 1.06 | 942 | - | HW030+NMRV-P063 | - |
| 2091 | 24.0 | 47.50 | 1.03 | 1117 | - | HW030+NMRV-P063 | - |
| 2110 | 19.7 | 58.00 | 0.9 | 1278 | - | HW030+NMRV-P063 | - |
| 2261 | 16.0 | 71.25 | 0.79 | 1278 | - | HW030+NMRV-P063 | - |
| 2153 | 14.7 | 77.33 | 0.72 | 1407 | - | HW030+NMRV-P063 | - |
| 2367 | 13.9 | 81.82 | 0.73 | 1278 | - | HW030+NMRV-P063 | - |
| 2051 | 12.9 | 88.33 | 0.67 | 1187 | - | HW030+NMRV-P063 | - |
| 2271 | 12.0 | 95.00 | 0.63 | 1407 | - | HW030+NMRV-P063 | - |
| 2337 | 10.4 | 109.09 | 0.57 | 1407 | - | HW030+NMRV-P063 | - |
| 2330 | 9.7 | 118.13 | 0.5 | 1278 | - | HW030+NMRV-P063 | - |
| 2123 | 8.4 | 136.36 | 0.43 | 1410 | - | HW030+NMRV-P063 | - |
| 2405 | 8.0 | 142.50 | 0.51 | 1410 | - | HW030+NMRV-P063 | - |
| 2479 | 7.2 | 157.50 | 0.42 | 1407 | - | HW030+NMRV-P063 | - |
| 2519 | 7.0 | 163.64 | 0.47 | 1410 | - | HW030+NMRV-P063 | - |
| 1716 | 6.5 | 176.67 | 0.35 | 1410 | - | HW030+NMRV-P063 | - |
| 2224 | 5.8 | 196.88 | 0.32 | 1410 | - | HW030+NMRV-P063 | - |
| 2321 | 5.2 | 218.18 | 0.35 | 1410 | - | HW030+NMRV-P063 | - |
| 2846 | 4.8 | 236.25 | 0.37 | 1410 | - | HW030+NMRV-P063 | - |
| 2107 | 4.2 | 272.73 | 0.28 | 1410 | - | HW030+NMRV-P063 | - |
| 2416 | 3.6 | 315.00 | 0.26 | 1410 | - | HW030+NMRV-P063 | - |
| 2187 | 2.9 | 393.75 | 0.2 | 1410 | - | HW030+NMRV-P063 | - |
| 2474 | 2.6 | 433.33 | 0.2 | 1410 | - | HW030+NMRV-P063 | - |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|------------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 1974 | 2.4 | 472.50 | 0.17 | 1410 | - | HW030+NMRV-P063 | - |
| 2237 | 2.1 | 541.67 | 0.15 | 1410 | - | HW030+NMRV-P063 | - |
| 2013 | 1.8 | 650.00 | 0.13 | 1410 | - | HW030+NMRV-P063 | - |
| 1187 | 1.4 | 787.50 | 0.08 | 1410 | - | HW030+NMRV-P063 | - |
| 1489 | 1.3 | 866.67 | 0.08 | 1410 | - | HW030+NMRV-P063 | - |
| 1187 | 1.1 | 1083.33 | 0.06 | 1410 | - | HW030+NMRV-P063 | - |
| 2506 | 51.6 | 22.08 | 2.51 | 882 | - | HW030+NMRV-P075 | - |
| 2498 | 39.3 | 29.00 | 1.92 | 1198 | - | HW030+NMRV-P075 | - |
| 2848 | 29.5 | 38.67 | 1.69 | 1318 | - | HW030+NMRV-P075 | - |
| 3065 | 25.8 | 44.17 | 1.64 | 1112 | - | HW030+NMRV-P075 | - |
| 3051 | 24.0 | 47.50 | 1.49 | 1318 | - | HW030+NMRV-P075 | - |
| 3355 | 19.7 | 58.00 | 1.39 | 1509 | - | HW030+NMRV-P075 | - |
| 3595 | 16.0 | 71.25 | 1.23 | 1509 | - | HW030+NMRV-P075 | - |
| 3623 | 14.7 | 77.33 | 1.18 | 1659 | - | HW030+NMRV-P075 | - |
| 3658 | 13.9 | 81.82 | 1.09 | 1509 | - | HW030+NMRV-P075 | - |
| 3313 | 12.9 | 88.33 | 1.04 | 1401 | - | HW030+NMRV-P075 | - |
| 3857 | 12.0 | 95.00 | 1.04 | 1659 | - | HW030+NMRV-P075 | - |
| 3973 | 10.4 | 109.09 | 0.94 | 1659 | - | HW030+NMRV-P075 | - |
| 3626 | 9.8 | 116.00 | 0.89 | 1659 | - | HW030+NMRV-P075 | - |
| 3551 | 8.4 | 136.36 | 0.7 | 1659 | - | HW030+NMRV-P075 | - |
| 3886 | 8.0 | 142.50 | 0.78 | 1659 | - | HW030+NMRV-P075 | - |
| 3554 | 7.4 | 154.67 | 0.71 | 1659 | - | HW030+NMRV-P075 | - |
| 4069 | 7.0 | 163.64 | 0.72 | 1659 | - | HW030+NMRV-P075 | - |
| 2900 | 6.5 | 176.67 | 0.56 | 1659 | - | HW030+NMRV-P075 | - |
| 3608 | 5.8 | 196.88 | 0.5 | 1659 | - | HW030+NMRV-P075 | - |
| 3835 | 5.2 | 218.18 | 0.55 | 1659 | - | HW030+NMRV-P075 | - |
| 4012 | 4.8 | 236.25 | 0.5 | 1659 | - | HW030+NMRV-P075 | - |
| 3446 | 4.2 | 272.73 | 0.43 | 1659 | - | HW030+NMRV-P075 | - |
| 4007 | 3.6 | 315.00 | 0.41 | 1659 | - | HW030+NMRV-P075 | - |
| 3582 | 2.9 | 393.75 | 0.32 | 1659 | - | HW030+NMRV-P075 | - |
| 3382 | 2.4 | 472.50 | 0.27 | 1659 | - | HW030+NMRV-P075 | - |
| 3228 | 2.1 | 541.67 | 0.21 | 1659 | - | HW030+NMRV-P075 | - |
| 3452 | 1.8 | 650.00 | 0.2 | 1659 | - | HW030+NMRV-P075 | - |
| 2021 | 1.4 | 787.50 | 0.12 | 1659 | - | HW030+NMRV-P075 | - |
| 2587 | 1.3 | 866.67 | 0.13 | 1659 | - | HW030+NMRV-P075 | - |
| 2049 | 1.1 | 1083.33 | 0.09 | 1659 | - | HW030+NMRV-P075 | - |
| 3616 | 49.0 | 23.29 | 3.39 | 976 | 67 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 4699 | 36.7 | 31.05 | 3.37 | 1075 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 4392 | 27.1 | 42.00 | 2.35 | 1458 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 5288 | 24.5 | 46.58 | 2.63 | 1230 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|------------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 5847 | 18.1 | 63.00 | 2.19 | 1669 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 4992 | 14.7 | 77.63 | 1.61 | 1458 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 5608 | 13.6 | 84.00 | 1.64 | 1838 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 5680 | 12.2 | 93.16 | 1.63 | 1550 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 6135 | 10.4 | 110.00 | 1.38 | 1838 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 6281 | 9.1 | 126.00 | 1.36 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 5925 | 8.3 | 137.50 | 1.11 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 4874 | 7.3 | 155.26 | 0.95 | 1838 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 6871 | 6.9 | 165.00 | 1.15 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 4301 | 6.1 | 186.32 | 0.75 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 6265 | 5.2 | 220.00 | 0.85 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 4593 | 4.5 | 252.00 | 0.61 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 5498 | 4.2 | 275.00 | 0.64 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 5576 | 3.7 | 304.55 | 0.59 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 4789 | 3.5 | 330.00 | 0.5 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 5728 | 3.0 | 383.33 | 0.49 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 5800 | 2.6 | 437.50 | 0.44 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 4973 | 2.5 | 460.00 | 0.38 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 5031 | 2.2 | 525.00 | 0.34 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 3980 | 1.9 | 613.33 | 0.25 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 4035 | 1.6 | 700.00 | 0.22 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 3201 | 1.5 | 766.67 | 0.18 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 3227 | 1.3 | 875.00 | 0.16 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 3640 | 49.0 | 23.29 | 3.39 | 1234 | 67 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 4740 | 36.7 | 31.05 | 3.39 | 1358 | 67 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 4392 | 27.1 | 42.00 | 2.35 | 1843 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 6902 | 24.5 | 46.58 | 3.39 | 1554 | 67 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 8976 | 18.4 | 62.11 | 3.39 | 1711 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 9530 | 14.7 | 77.63 | 2.96 | 1843 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 8279 | 13.6 | 84.00 | 2.35 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 10385 | 12.2 | 93.16 | 2.95 | 1958 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 10083 | 10.9 | 105.00 | 2.35 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 10901 | 9.1 | 126.00 | 2.35 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 8475 | 8.3 | 137.50 | 1.53 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 8755 | 7.3 | 155.26 | 1.62 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 10558 | 6.8 | 168.00 | 1.76 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 7684 | 6.1 | 186.32 | 1.25 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 11144 | 5.2 | 220.00 | 1.45 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 8701 | 4.5 | 252.00 | 1.08 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 10356 | 4.2 | 275.00 | 1.13 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|------------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 10199 | 3.7 | 304.55 | 1.01 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 9094 | 3.5 | 330.00 | 0.88 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 8388 | 3.0 | 383.33 | 0.67 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 7610 | 2.6 | 440.00 | 0.61 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 9379 | 2.5 | 460.00 | 0.67 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 8116 | 2.2 | 525.00 | 0.51 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 7885 | 1.9 | 613.33 | 0.46 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 7971 | 1.6 | 700.00 | 0.41 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 6608 | 1.5 | 766.67 | 0.34 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 6660 | 1.3 | 875.00 | 0.3 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 475 | 79.2 | 22.08 | 6.53 | 417 | - | HA31+NMRV040 | - |
| 522 | 73.7 | 23.75 | 6.58 | 364 | - | HA31+NMRV040 | - |
| 534 | 68.6 | 25.50 | 6.28 | 364 | - | HA31+NMRV040 | - |
| 499 | 59.4 | 29.44 | 5.27 | 459 | - | HA31+NMRV040 | - |
| 565 | 55.6 | 31.50 | 5.42 | 494 | - | HA31+NMRV040 | - |
| 558 | 49.1 | 35.63 | 4.86 | 417 | - | HA31+NMRV040 | - |
| 580 | 42.8 | 40.91 | 4.42 | 417 | - | HA31+NMRV040 | - |
| 517 | 39.6 | 44.17 | 3.87 | 525 | - | HA31+NMRV040 | - |
| 569 | 36.8 | 47.50 | 3.83 | 459 | - | HA31+NMRV040 | - |
| 586 | 32.1 | 54.55 | 3.46 | 459 | - | HA31+NMRV040 | - |
| 486 | 29.7 | 58.89 | 2.84 | 578 | - | HA31+NMRV040 | - |
| 601 | 27.8 | 63.00 | 3.1 | 622 | - | HA31+NMRV040 | - |
| 583 | 24.6 | 71.25 | 2.78 | 525 | - | HA31+NMRV040 | - |
| 621 | 22.2 | 78.75 | 2.58 | 622 | - | HA31+NMRV040 | - |
| 530 | 19.8 | 88.33 | 2.35 | 661 | - | HA31+NMRV040 | - |
| 612 | 18.5 | 94.50 | 2.22 | 713 | - | HA31+NMRV040 | - |
| 542 | 17.2 | 102.00 | 1.9 | 578 | - | HA31+NMRV040 | - |
| 547 | 16.0 | 109.09 | 1.8 | 578 | - | HA31+NMRV040 | - |
| 630 | 14.8 | 118.13 | 1.85 | 713 | - | HA31+NMRV040 | - |
| 498 | 13.7 | 127.50 | 1.47 | 622 | - | HA31+NMRV040 | - |
| 591 | 12.3 | 142.50 | 1.7 | 661 | - | HA31+NMRV040 | - |
| 523 | 11.3 | 154.67 | 1.48 | 728 | - | HA31+NMRV040 | - |
| 607 | 10.7 | 163.64 | 1.54 | 661 | - | HA31+NMRV040 | - |
| 621 | 9.3 | 189.00 | 1.38 | 785 | - | HA31+NMRV040 | - |
| 546 | 8.6 | 204.00 | 1.21 | 728 | - | HA31+NMRV040 | - |
| 820 | 79.2 | 22.08 | 11.14 | 572 | - | HA31+NMRV050 | - |
| 603 | 73.7 | 23.75 | 7.6 | 500 | - | HA31+NMRV050 | - |
| 628 | 68.6 | 25.50 | 7.39 | 500 | - | HA31+NMRV050 | - |
| 956 | 59.4 | 29.44 | 9.95 | 629 | - | HA31+NMRV050 | - |
| 623 | 55.6 | 31.50 | 5.98 | 678 | - | HA31+NMRV050 | - |
| 883 | 49.1 | 35.63 | 7.59 | 572 | - | HA31+NMRV050 | - |
| 918 | 42.8 | 40.91 | 6.92 | 572 | - | HA31+NMRV050 | - |
| 956 | 39.6 | 44.17 | 7.06 | 721 | - | HA31+NMRV050 | - |
| 1093 | 36.8 | 47.50 | 7.22 | 629 | - | HA31+NMRV050 | - |
| 1127 | 32.1 | 54.55 | 6.53 | 629 | - | HA31+NMRV050 | - |
| 850 | 29.7 | 58.89 | 4.89 | 793 | - | HA31+NMRV050 | - |
| 1157 | 27.8 | 63.00 | 5.83 | 854 | - | HA31+NMRV050 | - |
| 1086 | 24.6 | 71.25 | 5.13 | 721 | - | HA31+NMRV050 | - |
| 1128 | 22.2 | 78.75 | 4.58 | 854 | - | HA31+NMRV050 | - |
| 960 | 19.8 | 88.33 | 4.18 | 908 | - | HA31+NMRV050 | - |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 1144 | 18.5 | 94.50 | 4.14 | 978 | - | HA31+NMRV050 | - |
| 978 | 17.2 | 102.00 | 3.4 | 793 | - | HA31+NMRV050 | - |
| 991 | 16.0 | 109.09 | 3.24 | 793 | - | HA31+NMRV050 | - |
| 1180 | 14.8 | 118.13 | 3.45 | 978 | - | HA31+NMRV050 | - |
| 898 | 13.7 | 127.50 | 2.65 | 854 | - | HA31+NMRV050 | - |
| 1124 | 12.3 | 142.50 | 3.18 | 908 | - | HA31+NMRV050 | - |
| 956 | 11.3 | 154.67 | 2.65 | 999 | - | HA31+NMRV050 | - |
| 1169 | 10.7 | 163.64 | 2.92 | 908 | - | HA31+NMRV050 | - |
| 1210 | 9.3 | 189.00 | 2.65 | 1088 | - | HA31+NMRV050 | - |
| 1017 | 8.6 | 204.00 | 2.22 | 999 | - | HA31+NMRV050 | - |
| 1262 | 7.4 | 236.25 | 2.24 | 1088 | - | HA31+NMRV050 | - |
| 1054 | 6.9 | 252.00 | 1.91 | 1088 | - | HA31+NMRV050 | - |
| 977 | 6.4 | 272.73 | 1.73 | 1076 | - | HA31+NMRV050 | - |
| 840 | 6.1 | 285.00 | 1.51 | 1088 | - | HA31+NMRV050 | - |
| 1007 | 5.6 | 315.00 | 1.57 | 1088 | - | HA31+NMRV050 | - |
| 1538 | 79.2 | 22.08 | 2.29 | 748 | - | HW030+NMRV-P063 | - |
| 1682 | 60.3 | 29.00 | 1.94 | 748 | - | HW030+NMRV-P063 | - |
| 1692 | 45.3 | 38.67 | 1.53 | 823 | - | HW030+NMRV-P063 | - |
| 1672 | 39.6 | 44.17 | 1.36 | 942 | - | HW030+NMRV-P063 | - |
| 1813 | 36.8 | 47.50 | 1.35 | 823 | - | HW030+NMRV-P063 | - |
| 1829 | 30.2 | 58.00 | 1.16 | 942 | - | HW030+NMRV-P063 | - |
| 1960 | 24.6 | 71.25 | 1.03 | 942 | - | HW030+NMRV-P063 | - |
| 1816 | 22.6 | 77.33 | 0.9 | 1037 | - | HW030+NMRV-P063 | - |
| 2053 | 21.4 | 81.82 | 0.95 | 942 | - | HW030+NMRV-P063 | - |
| 1778 | 19.8 | 88.33 | 0.85 | 1187 | - | HW030+NMRV-P063 | - |
| 1997 | 18.4 | 95.00 | 0.82 | 1037 | - | HW030+NMRV-P063 | - |
| 2099 | 16.0 | 109.09 | 0.76 | 1037 | - | HW030+NMRV-P063 | - |
| 2320 | 14.8 | 118.13 | 0.76 | 1278 | - | HW030+NMRV-P063 | - |
| 1913 | 12.8 | 136.36 | 0.58 | 1117 | - | HW030+NMRV-P063 | - |
| 2085 | 12.3 | 142.50 | 0.66 | 1187 | - | HW030+NMRV-P063 | - |
| 2308 | 11.1 | 157.50 | 0.6 | 1407 | - | HW030+NMRV-P063 | - |
| 2184 | 10.7 | 163.64 | 0.61 | 1187 | - | HW030+NMRV-P063 | - |
| 1490 | 9.9 | 176.67 | 0.43 | 1410 | - | HW030+NMRV-P063 | - |
| 2098 | 8.9 | 196.88 | 0.45 | 1410 | - | HW030+NMRV-P063 | - |
| 2115 | 8.0 | 218.18 | 0.47 | 1306 | - | HW030+NMRV-P063 | - |
| 2468 | 7.4 | 236.25 | 0.49 | 1410 | - | HW030+NMRV-P063 | - |
| 1959 | 6.4 | 272.73 | 0.38 | 1407 | - | HW030+NMRV-P063 | - |
| 2299 | 5.6 | 315.00 | 0.37 | 1410 | - | HW030+NMRV-P063 | - |
| 2089 | 4.4 | 393.75 | 0.29 | 1410 | - | HW030+NMRV-P063 | - |
| 2392 | 4.0 | 433.33 | 0.29 | 1410 | - | HW030+NMRV-P063 | - |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|------------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 1896 | 3.7 | 472.50 | 0.24 | 1410 | - | HW030+NMRV-P063 | - |
| 2167 | 3.2 | 541.67 | 0.22 | 1410 | - | HW030+NMRV-P063 | - |
| 1958 | 2.7 | 650.00 | 0.18 | 1410 | - | HW030+NMRV-P063 | - |
| 1145 | 2.2 | 787.50 | 0.11 | 1410 | - | HW030+NMRV-P063 | - |
| 1458 | 2.0 | 866.67 | 0.12 | 1410 | - | HW030+NMRV-P063 | - |
| 1145 | 1.6 | 1083.33 | 0.08 | 1410 | - | HW030+NMRV-P063 | - |
| 2133 | 79.2 | 22.08 | 3.17 | 882 | - | HW030+NMRV-P075 | - |
| 2377 | 60.3 | 29.00 | 2.74 | 882 | - | HW030+NMRV-P075 | - |
| 2469 | 45.3 | 38.67 | 2.24 | 971 | - | HW030+NMRV-P075 | - |
| 2658 | 39.6 | 44.17 | 2.17 | 1112 | - | HW030+NMRV-P075 | - |
| 2646 | 36.8 | 47.50 | 1.97 | 971 | - | HW030+NMRV-P075 | - |
| 2909 | 30.2 | 58.00 | 1.85 | 1112 | - | HW030+NMRV-P075 | - |
| 3117 | 24.6 | 71.25 | 1.64 | 1112 | - | HW030+NMRV-P075 | - |
| 3057 | 22.6 | 77.33 | 1.52 | 1224 | - | HW030+NMRV-P075 | - |
| 3264 | 21.4 | 81.82 | 1.51 | 1112 | - | HW030+NMRV-P075 | - |
| 2873 | 19.8 | 88.33 | 1.37 | 1401 | - | HW030+NMRV-P075 | - |
| 3366 | 18.4 | 95.00 | 1.39 | 1224 | - | HW030+NMRV-P075 | - |
| 3525 | 16.0 | 109.09 | 1.28 | 1224 | - | HW030+NMRV-P075 | - |
| 3144 | 15.1 | 116.00 | 1.19 | 1401 | - | HW030+NMRV-P075 | - |
| 3183 | 12.8 | 136.36 | 0.97 | 1318 | - | HW030+NMRV-P075 | - |
| 3369 | 12.3 | 142.50 | 1.06 | 1401 | - | HW030+NMRV-P075 | - |
| 3081 | 11.3 | 154.67 | 0.93 | 1542 | - | HW030+NMRV-P075 | - |
| 3528 | 10.7 | 163.64 | 0.98 | 1401 | - | HW030+NMRV-P075 | - |
| 2492 | 9.9 | 176.67 | 0.72 | 1659 | - | HW030+NMRV-P075 | - |
| 3508 | 8.9 | 196.88 | 0.76 | 1659 | - | HW030+NMRV-P075 | - |
| 3457 | 8.0 | 218.18 | 0.77 | 1542 | - | HW030+NMRV-P075 | - |
| 3987 | 7.4 | 236.25 | 0.79 | 1659 | - | HW030+NMRV-P075 | - |
| 3190 | 6.4 | 272.73 | 0.62 | 1659 | - | HW030+NMRV-P075 | - |
| 3798 | 5.6 | 315.00 | 0.61 | 1659 | - | HW030+NMRV-P075 | - |
| 3416 | 4.4 | 393.75 | 0.47 | 1659 | - | HW030+NMRV-P075 | - |
| 3239 | 3.7 | 472.50 | 0.4 | 1659 | - | HW030+NMRV-P075 | - |
| 3062 | 3.2 | 541.67 | 0.31 | 1659 | - | HW030+NMRV-P075 | - |
| 3352 | 2.7 | 650.00 | 0.31 | 1659 | - | HW030+NMRV-P075 | - |
| 1973 | 2.2 | 787.50 | 0.19 | 1659 | - | HW030+NMRV-P075 | - |
| 2527 | 2.0 | 866.67 | 0.2 | 1659 | - | HW030+NMRV-P075 | - |
| 2010 | 1.6 | 1083.33 | 0.15 | 1659 | - | HW030+NMRV-P075 | - |
| 3672 | 75.1 | 23.29 | 5.21 | 976 | 67 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 4074 | 56.4 | 31.05 | 4.38 | 1075 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 4373 | 41.7 | 42.00 | 3.53 | 1075 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 4584 | 37.6 | 46.58 | 3.39 | 1230 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|------------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 5069 | 27.8 | 63.00 | 2.84 | 1230 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 3927 | 22.5 | 77.63 | 1.88 | 1458 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 4862 | 20.8 | 84.00 | 2.12 | 1354 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 4924 | 18.8 | 93.16 | 2.07 | 1550 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 5319 | 15.9 | 110.00 | 1.8 | 1354 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 5445 | 13.9 | 126.00 | 1.75 | 1550 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 5235 | 12.7 | 137.50 | 1.48 | 1458 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 4139 | 11.3 | 155.26 | 1.17 | 1838 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 5957 | 10.6 | 165.00 | 1.5 | 1550 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 3700 | 9.4 | 186.32 | 0.93 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 5432 | 8.0 | 220.00 | 1.1 | 1706 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 4149 | 6.9 | 252.00 | 0.81 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 5075 | 6.4 | 275.00 | 0.87 | 1838 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 5192 | 5.8 | 304.55 | 0.82 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 4450 | 5.3 | 330.00 | 0.68 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 5417 | 4.6 | 383.33 | 0.69 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 5525 | 4.0 | 437.50 | 0.62 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 4725 | 3.8 | 460.00 | 0.54 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 4811 | 3.3 | 525.00 | 0.48 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 3771 | 2.9 | 613.33 | 0.36 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 3828 | 2.5 | 700.00 | 0.32 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 3110 | 2.3 | 766.67 | 0.26 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 3130 | 2.0 | 875.00 | 0.23 | 1839 | 90 | HW040+NMRV-P090 | IHW040+NMRV-P090 |
| 3723 | 75.1 | 23.29 | 5.21 | 1234 | 67 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 4851 | 56.4 | 31.05 | 5.21 | 1358 | 67 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 4373 | 41.7 | 42.00 | 3.53 | 1358 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 7124 | 37.6 | 46.58 | 5.21 | 1554 | 67 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 6932 | 28.2 | 62.11 | 3.9 | 1711 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 7335 | 22.5 | 77.63 | 3.38 | 1843 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 8301 | 20.8 | 84.00 | 3.53 | 1711 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 8117 | 18.8 | 93.16 | 3.35 | 1958 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 8976 | 16.7 | 105.00 | 3.13 | 1843 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 9812 | 13.9 | 126.00 | 3.12 | 1958 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 8302 | 12.7 | 137.50 | 2.25 | 1843 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 7326 | 11.3 | 155.26 | 1.98 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 8990 | 10.4 | 168.00 | 2.2 | 2155 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 6543 | 9.4 | 186.32 | 1.54 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 9867 | 8.0 | 220.00 | 1.9 | 2155 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 7396 | 6.9 | 252.00 | 1.35 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 9111 | 6.4 | 275.00 | 1.48 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|------------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 9335 | 5.8 | 304.55 | 1.38 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 7968 | 5.3 | 330.00 | 1.14 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 8294 | 4.6 | 383.33 | 0.99 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 6637 | 4.0 | 440.00 | 0.78 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 8491 | 3.8 | 460.00 | 0.9 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 8008 | 3.3 | 525.00 | 0.75 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 7022 | 2.9 | 613.33 | 0.61 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 7143 | 2.5 | 700.00 | 0.55 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 5645 | 2.3 | 766.67 | 0.43 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |
| 5681 | 2.0 | 875.00 | 0.39 | 2320 | 112 | HW040+NMRV-P110 | IHW040+NMRV-P110 |

0.12 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 16.2 | 2.3 | 278 | 10.00 | 10.00 | 100.00 | 628 | 622 | NMRV025/040 | TS56B4 | - | - |
| 16.2 | 2.3 | 278 | 10.00 | 10.00 | 100.00 | 628 | 622 | NMRV030/040 | TS56B4 | - | - |
| 16.2 | 1.0 | 271 | 10.00 | 10.00 | 100.00 | 283 | 323 | NMRV025/030 | TS56B4 | - | - |
| 10.8 | 3.0 | 395 | 10.00 | 15.00 | 150.00 | 1195 | 978 | NMRV030/050 | TS56B4 | - | - |
| 10.8 | 1.6 | 395 | 10.00 | 15.00 | 150.00 | 637 | 713 | NMRV030/040 | TS56B4 | - | - |
| 10.8 | 1.5 | 382 | 7.50 | 20.00 | 150.00 | 575 | 784 | NMRV025/040 | TS56B4 | - | - |
| 8.1 | 2.1 | 498 | 10.00 | 20.00 | 200.00 | 1062 | 1076 | NMRV030/050 | TS56B4 | - | - |
| 8.1 | 1.2 | 498 | 10.00 | 20.00 | 200.00 | 575 | 784 | NMRV025/040 | TS56B4 | - | - |
| 8.1 | 1.2 | 498 | 10.00 | 20.00 | 200.00 | 575 | 784 | NMRV030/040 | TS56B4 | - | - |
| 6.5 | 3.4 | 604 | 10.00 | 25.00 | 250.00 | 2045 | 1410 | NMRV-P030/063 | TS56B4 | - | - |
| 6.5 | 1.7 | 586 | 10.00 | 25.00 | 250.00 | 974 | 1088 | NMRV030/050 | TS56B4 | - | - |
| 5.4 | 3.6 | 621 | 7.50 | 40.00 | 300.00 | 2259 | 1410 | NMRV-P030/063 | TS56B4 | - | - |
| 5.4 | 2.0 | 649 | 10.00 | 30.00 | 300.00 | 1283 | 1088 | NMRV030/050 | TS56B4 | - | - |
| 5.4 | 1.0 | 639 | 10.00 | 30.00 | 300.00 | 646 | 785 | NMRV025/040 | TS56B4 | - | - |
| 5.4 | 1.0 | 639 | 10.00 | 30.00 | 300.00 | 646 | 785 | NMRV030/040 | TS56B4 | - | - |
| 4.0 | 2.8 | 808 | 10.00 | 40.00 | 400.00 | 2259 | 1410 | NMRV-P030/063 | TS56B4 | - | - |
| 4.0 | 1.4 | 779 | 10.00 | 40.00 | 400.00 | 1097 | 1088 | NMRV030/050 | TS56B4 | - | - |
| 3.2 | 2.2 | 938 | 10.00 | 50.00 | 500.00 | 2089 | 1410 | NMRV-P030/063 | TS56B4 | - | - |
| 3.2 | 1.1 | 1082 | 50.00 | 10.00 | 500.00 | 1213 | 854 | NMRV040/050 | TS56B4 | - | - |
| 3.2 | 1.2 | 902 | 10.00 | 50.00 | 500.00 | 1062 | 1088 | NMRV030/050 | TS56B4 | - | - |
| 2.7 | 2.0 | 1177 | 20.00 | 30.00 | 600.00 | 2398 | 1410 | NMRV-P030/063 | TS56B4 | - | - |
| 2.7 | 1.1 | 1158 | 20.00 | 30.00 | 600.00 | 1283 | 1088 | NMRV030/050 | TS56B4 | - | - |
| 2.2 | 1.7 | 1372 | 25.00 | 30.00 | 750.00 | 2398 | 1410 | NMRV-P030/063 | TS56B4 | - | - |
| 1.8 | 1.5 | 1575 | 30.00 | 30.00 | 900.00 | 2398 | 1410 | NMRV-P030/063 | TS56B4 | - | - |
| 1.4 | 1.3 | 1909 | 40.00 | 30.00 | 1200.00 | 2398 | 1410 | NMRV-P030/063 | TS56B4 | - | - |
| 1.1 | 2.3 | 2752 | 50.00 | 30.00 | 1500.00 | 6196 | 1839 | NMRV-P040/090 | TS56B4 | - | - |
| 1.1 | 1.5 | 2629 | 50.00 | 30.00 | 1500.00 | 3929 | 1659 | NMRV-P040/075 | TS56B4 | - | - |
| 1.1 | 1.1 | 2227 | 50.00 | 30.00 | 1500.00 | 2398 | 1410 | NMRV-P030/063 | TS56B4 | - | - |
| 0.9 | 2.0 | 3093 | 60.00 | 30.00 | 1800.00 | 6196 | 1839 | NMRV-P040/090 | TS56B4 | - | - |
| 0.9 | 1.3 | 2955 | 60.00 | 30.00 | 1800.00 | 3929 | 1659 | NMRV-P040/075 | TS56B4 | - | - |
| 0.7 | 1.4 | 3816 | 60.00 | 40.00 | 2400.00 | 5399 | 1839 | NMRV-P040/090 | TS56B4 | - | - |
| 0.7 | 1.0 | 3632 | 60.00 | 40.00 | 2400.00 | 3664 | 1659 | NMRV-P040/075 | TS56B4 | - | - |
| 0.5 | 1.1 | 4463 | 60.00 | 50.00 | 3000.00 | 4956 | 1839 | NMRV-P040/090 | TS56B4 | - | - |

0.16 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 16.7 | 3.3 | 380 | 10.00 | 10.00 | 100.00 | 1264 | 1117 | NMRV-P030/063 | TH63A4 | - | - |

5.9 DOUBLE WORM GEARMOTOR

0.16 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 16.7 | 3.2 | 380 | 10.00 | 10.00 | 100.00 | 1213 | 854 | NMRV030/050 | TH63A4 | - | - |
| 16.7 | 3.1 | 389 | 10.00 | 10.00 | 100.00 | 1213 | 854 | NMRV040/050 | TH63A4 | - | - |
| 16.7 | 1.7 | 370 | 10.00 | 10.00 | 100.00 | 628 | 622 | NMRV030/040 | TH63A4 | - | - |
| 11.1 | 3.3 | 534 | 10.00 | 15.00 | 150.00 | 1777 | 1278 | NMRV-P030/063 | TH63A4 | - | - |
| 11.1 | 2.3 | 527 | 10.00 | 15.00 | 150.00 | 1195 | 978 | NMRV030/050 | TH63A4 | - | - |
| 11.1 | 2.2 | 539 | 10.00 | 15.00 | 150.00 | 1195 | 978 | NMRV040/050 | TH63A4 | - | - |
| 11.1 | 1.2 | 527 | 10.00 | 15.00 | 150.00 | 637 | 713 | NMRV030/040 | TH63A4 | - | - |
| 8.3 | 3.3 | 673 | 10.00 | 20.00 | 200.00 | 2239 | 1407 | NMRV-P030/063 | TH63A4 | - | - |
| 8.3 | 3.2 | 690 | 10.00 | 20.00 | 200.00 | 2239 | 1407 | NMRV-P040/063 | TH63A4 | - | - |
| 8.3 | 1.6 | 664 | 10.00 | 20.00 | 200.00 | 1062 | 1076 | NMRV030/050 | TH63A4 | - | - |
| 8.3 | 1.6 | 680 | 10.00 | 20.00 | 200.00 | 1062 | 1076 | NMRV040/050 | TH63A4 | - | - |
| 6.7 | 4.0 | 850 | 10.00 | 25.00 | 250.00 | 3359 | 1659 | NMRV-P040/075 | TH63A4 | - | - |
| 6.7 | 2.5 | 806 | 10.00 | 25.00 | 250.00 | 2045 | 1410 | NMRV-P030/063 | TH63A4 | - | - |
| 6.7 | 2.5 | 825 | 10.00 | 25.00 | 250.00 | 2045 | 1410 | NMRV-P040/063 | TH63A4 | - | - |
| 6.7 | 1.2 | 782 | 10.00 | 25.00 | 250.00 | 974 | 1088 | NMRV030/050 | TH63A4 | - | - |
| 6.7 | 1.2 | 801 | 10.00 | 25.00 | 250.00 | 974 | 1088 | NMRV040/050 | TH63A4 | - | - |
| 5.6 | 2.7 | 902 | 10.00 | 30.00 | 300.00 | 2398 | 1410 | NMRV-P040/063 | TH63A4 | - | - |
| 5.6 | 2.7 | 828 | 7.50 | 40.00 | 300.00 | 2259 | 1410 | NMRV-P030/063 | TH63A4 | - | - |
| 5.6 | 1.5 | 866 | 10.00 | 30.00 | 300.00 | 1283 | 1088 | NMRV030/050 | TH63A4 | - | - |
| 5.6 | 1.4 | 887 | 10.00 | 30.00 | 300.00 | 1283 | 1088 | NMRV040/050 | TH63A4 | - | - |
| 4.2 | 3.2 | 1163 | 10.00 | 40.00 | 400.00 | 3664 | 1659 | NMRV-P040/075 | TH63A4 | - | - |
| 4.2 | 2.1 | 1078 | 10.00 | 40.00 | 400.00 | 2259 | 1410 | NMRV-P030/063 | TH63A4 | - | - |
| 4.2 | 2.0 | 1104 | 10.00 | 40.00 | 400.00 | 2259 | 1410 | NMRV-P040/063 | TH63A4 | - | - |
| 4.2 | 1.1 | 1039 | 10.00 | 40.00 | 400.00 | 1097 | 1088 | NMRV030/050 | TH63A4 | - | - |
| 4.2 | 1.0 | 1064 | 10.00 | 40.00 | 400.00 | 1097 | 1088 | NMRV040/050 | TH63A4 | - | - |
| 3.3 | 3.5 | 1429 | 10.00 | 50.00 | 500.00 | 4956 | 1839 | NMRV-P040/090 | TH63A4 | - | - |
| 3.3 | 2.4 | 1330 | 10.00 | 50.00 | 500.00 | 3257 | 1659 | NMRV-P040/075 | TH63A4 | - | - |
| 3.3 | 1.7 | 1251 | 10.00 | 50.00 | 500.00 | 2089 | 1410 | NMRV-P030/063 | TH63A4 | - | - |
| 3.3 | 1.3 | 1534 | 20.00 | 25.00 | 500.00 | 2045 | 1410 | NMRV-P040/063 | TH63A4 | - | - |
| 2.8 | 3.4 | 1841 | 20.00 | 30.00 | 600.00 | 6196 | 1839 | NMRV-P040/090 | TH63A4 | - | - |
| 2.8 | 2.2 | 1758 | 20.00 | 30.00 | 600.00 | 3929 | 1659 | NMRV-P040/075 | TH63A4 | - | - |
| 2.8 | 1.5 | 1570 | 20.00 | 30.00 | 600.00 | 2398 | 1410 | NMRV-P030/063 | TH63A4 | - | - |
| 2.8 | 1.4 | 1676 | 20.00 | 30.00 | 600.00 | 2398 | 1410 | NMRV-P040/063 | TH63A4 | - | - |
| 2.2 | 2.8 | 2213 | 25.00 | 30.00 | 750.00 | 6196 | 1839 | NMRV-P040/090 | TH63A4 | - | - |
| 2.2 | 1.9 | 2114 | 25.00 | 30.00 | 750.00 | 3929 | 1659 | NMRV-P040/075 | TH63A4 | - | - |
| 2.2 | 1.3 | 1830 | 25.00 | 30.00 | 750.00 | 2398 | 1410 | NMRV-P030/063 | TH63A4 | - | - |
| 2.2 | 1.2 | 2015 | 25.00 | 30.00 | 750.00 | 2398 | 1410 | NMRV-P040/063 | TH63A4 | - | - |
| 1.9 | 2.5 | 2481 | 30.00 | 30.00 | 900.00 | 6196 | 1839 | NMRV-P040/090 | TH63A4 | - | - |

5.9 DOUBLE WORM GEARMOTOR

0.16 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 1.9 | 1.7 | 2370 | 30.00 | 30.00 | 900.00 | 3929 | 1659 | NMRV-P040/075 | TH63A4 | - | - |
| 1.9 | 1.1 | 2100 | 30.00 | 30.00 | 900.00 | 2398 | 1410 | NMRV-P030/063 | TH63A4 | - | - |
| 1.9 | 1.1 | 2259 | 30.00 | 30.00 | 900.00 | 2398 | 1410 | NMRV-P040/063 | TH63A4 | - | - |
| 1.4 | 3.5 | 3169 | 40.00 | 30.00 | 1200.00 | 11196 | 2320 | NMRV-P050/110 | TH63A4 | - | - |
| 1.4 | 2.0 | 3076 | 40.00 | 30.00 | 1200.00 | 6196 | 1839 | NMRV-P040/090 | TH63A4 | - | - |
| 1.4 | 2.0 | 3169 | 40.00 | 30.00 | 1200.00 | 6196 | 1839 | NMRV-P050/090 | TH63A4 | - | - |
| 1.4 | 1.3 | 2938 | 40.00 | 30.00 | 1200.00 | 3929 | 1659 | NMRV-P040/075 | TH63A4 | - | - |
| 1.1 | 3.0 | 3728 | 50.00 | 30.00 | 1500.00 | 11196 | 2320 | NMRV-P050/110 | TH63A4 | - | - |
| 1.1 | 1.7 | 3670 | 50.00 | 30.00 | 1500.00 | 6196 | 1839 | NMRV-P040/090 | TH63A4 | - | - |
| 1.1 | 1.7 | 3728 | 50.00 | 30.00 | 1500.00 | 6196 | 1839 | NMRV-P050/090 | TH63A4 | - | - |
| 1.1 | 1.1 | 3505 | 50.00 | 30.00 | 1500.00 | 3929 | 1659 | NMRV-P040/075 | TH63A4 | - | - |
| 0.9 | 2.7 | 4194 | 60.00 | 30.00 | 1800.00 | 11196 | 2320 | NMRV-P050/110 | TH63A4 | - | - |
| 0.9 | 1.5 | 4124 | 60.00 | 30.00 | 1800.00 | 6196 | 1839 | NMRV-P040/090 | TH63A4 | - | - |
| 0.9 | 1.5 | 4194 | 60.00 | 30.00 | 1800.00 | 6196 | 1839 | NMRV-P050/090 | TH63A4 | - | - |
| 0.7 | 1.9 | 5425 | 60.00 | 40.00 | 2400.00 | 10488 | 2320 | NMRV-P050/110 | TH63A4 | - | - |
| 0.7 | 1.1 | 5088 | 60.00 | 40.00 | 2400.00 | 5399 | 1839 | NMRV-P040/090 | TH63A4 | - | - |
| 0.7 | 1.0 | 5175 | 60.00 | 40.00 | 2400.00 | 5399 | 1839 | NMRV-P050/090 | TH63A4 | - | - |
| 0.6 | 1.5 | 6468 | 60.00 | 50.00 | 3000.00 | 9736 | 2320 | NMRV-P050/110 | TH63A4 | - | - |
| 0.4 | 1.3 | 7762 | 80.00 | 50.00 | 4000.00 | 9736 | 2320 | NMRV-P050/110 | TH63A4 | - | - |
| 0.3 | 1.1 | 8984 | 100.00 | 50.00 | 5000.00 | 9736 | 2320 | NMRV-P050/110 | TH63A4 | - | - |

0.25 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 16.7 | 3.9 | 584 | 10.00 | 10.00 | 100.00 | 2277 | 1117 | NMRV-P040/063 | TH63B4 | - | - |
| 16.7 | 2.2 | 570 | 10.00 | 10.00 | 100.00 | 1264 | 1117 | NMRV-P030/063 | TH63B4 | - | - |
| 16.7 | 2.1 | 570 | 10.00 | 10.00 | 100.00 | 1213 | 854 | NMRV030/050 | TH63B4 | - | - |
| 16.7 | 2.1 | 584 | 10.00 | 10.00 | 100.00 | 1213 | 854 | NMRV040/050 | TH63B4 | - | - |
| 16.7 | 1.1 | 556 | 10.00 | 10.00 | 100.00 | 628 | 622 | NMRV030/040 | TH63B4 | - | - |
| 11.1 | 2.8 | 820 | 10.00 | 15.00 | 150.00 | 2300 | 1278 | NMRV-P040/063 | TH63B4 | - | - |
| 11.1 | 2.2 | 801 | 10.00 | 15.00 | 150.00 | 1777 | 1278 | NMRV-P030/063 | TH63B4 | - | - |
| 11.1 | 1.5 | 790 | 10.00 | 15.00 | 150.00 | 1195 | 978 | NMRV030/050 | TH63B4 | - | - |
| 11.1 | 1.5 | 809 | 10.00 | 15.00 | 150.00 | 1195 | 978 | NMRV040/050 | TH63B4 | - | - |
| 8.3 | 3.5 | 1064 | 10.00 | 20.00 | 200.00 | 3715 | 1659 | NMRV-P040/075 | TH63B4 | - | - |
| 8.3 | 2.2 | 1010 | 10.00 | 20.00 | 200.00 | 2239 | 1407 | NMRV-P030/063 | TH63B4 | - | - |
| 8.3 | 2.2 | 1035 | 10.00 | 20.00 | 200.00 | 2239 | 1407 | NMRV-P040/063 | TH63B4 | - | - |
| 8.3 | 1.1 | 996 | 10.00 | 20.00 | 200.00 | 1062 | 1076 | NMRV030/050 | TH63B4 | - | - |
| 8.3 | 1.0 | 1020 | 10.00 | 20.00 | 200.00 | 1062 | 1076 | NMRV040/050 | TH63B4 | - | - |

5.9 DOUBLE WORM GEARMOTOR

0.25 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 6.7 | 3.8 | 1330 | 10.00 | 25.00 | 250.00 | 5045 | 1839 | NMRV-P040/090 | TH63B4 | - | - |
| 6.7 | 2.6 | 1275 | 10.00 | 25.00 | 250.00 | 3359 | 1659 | NMRV-P040/075 | TH63B4 | - | - |
| 6.7 | 1.7 | 1209 | 10.00 | 25.00 | 250.00 | 2045 | 1410 | NMRV-P030/063 | TH63B4 | - | - |
| 6.7 | 1.7 | 1238 | 10.00 | 25.00 | 250.00 | 2045 | 1410 | NMRV-P040/063 | TH63B4 | - | - |
| 5.6 | 2.8 | 1419 | 10.00 | 30.00 | 300.00 | 3929 | 1659 | NMRV-P040/075 | TH63B4 | - | - |
| 5.6 | 1.8 | 1352 | 10.00 | 30.00 | 300.00 | 2398 | 1410 | NMRV-P040/063 | TH63B4 | - | - |
| 5.6 | 1.8 | 1241 | 7.50 | 40.00 | 300.00 | 2259 | 1410 | NMRV-P030/063 | TH63B4 | - | - |
| 4.2 | 2.9 | 1833 | 10.00 | 40.00 | 400.00 | 5399 | 1839 | NMRV-P040/090 | TH63B4 | - | - |
| 4.2 | 2.1 | 1744 | 10.00 | 40.00 | 400.00 | 3664 | 1659 | NMRV-P040/075 | TH63B4 | - | - |
| 4.2 | 1.4 | 1616 | 10.00 | 40.00 | 400.00 | 2259 | 1410 | NMRV-P030/063 | TH63B4 | - | - |
| 4.2 | 1.4 | 1655 | 10.00 | 40.00 | 400.00 | 2259 | 1410 | NMRV-P040/063 | TH63B4 | - | - |
| 3.3 | 2.3 | 2143 | 10.00 | 50.00 | 500.00 | 4956 | 1839 | NMRV-P040/090 | TH63B4 | - | - |
| 3.3 | 1.6 | 1995 | 10.00 | 50.00 | 500.00 | 3257 | 1659 | NMRV-P040/075 | TH63B4 | - | - |
| 3.3 | 1.1 | 1876 | 10.00 | 50.00 | 500.00 | 2089 | 1410 | NMRV-P030/063 | TH63B4 | - | - |
| 2.8 | 2.2 | 2761 | 20.00 | 30.00 | 600.00 | 6196 | 1839 | NMRV-P040/090 | TH63B4 | - | - |
| 2.8 | 1.5 | 2637 | 20.00 | 30.00 | 600.00 | 3929 | 1659 | NMRV-P040/075 | TH63B4 | - | - |
| 2.8 | 1.0 | 2355 | 20.00 | 30.00 | 600.00 | 2398 | 1410 | NMRV-P030/063 | TH63B4 | - | - |
| 2.2 | 1.9 | 3320 | 25.00 | 30.00 | 750.00 | 6196 | 1839 | NMRV-P040/090 | TH63B4 | - | - |
| 2.2 | 1.2 | 3172 | 25.00 | 30.00 | 750.00 | 3929 | 1659 | NMRV-P040/075 | TH63B4 | - | - |
| 1.9 | 1.7 | 3722 | 30.00 | 30.00 | 900.00 | 6196 | 1839 | NMRV-P040/090 | TH63B4 | - | - |
| 1.9 | 1.1 | 3555 | 30.00 | 30.00 | 900.00 | 3929 | 1659 | NMRV-P040/075 | TH63B4 | - | - |
| 1.4 | 2.4 | 4753 | 40.00 | 30.00 | 1200.00 | 11196 | 2320 | NMRV-P050/110 | TH63B4 | - | - |
| 1.4 | 1.3 | 4613 | 40.00 | 30.00 | 1200.00 | 6196 | 1839 | NMRV-P040/090 | TH63B4 | - | - |
| 1.4 | 1.3 | 4753 | 40.00 | 30.00 | 1200.00 | 6196 | 1839 | NMRV-P050/090 | TH63B4 | - | - |
| 1.1 | 2.0 | 5592 | 50.00 | 30.00 | 1500.00 | 11196 | 2320 | NMRV-P050/110 | TH63B4 | - | - |
| 1.1 | 1.1 | 5505 | 50.00 | 30.00 | 1500.00 | 6196 | 1839 | NMRV-P040/090 | TH63B4 | - | - |
| 1.1 | 1.1 | 5592 | 50.00 | 30.00 | 1500.00 | 6196 | 1839 | NMRV-P050/090 | TH63B4 | - | - |
| 0.9 | 1.8 | 6291 | 60.00 | 30.00 | 1800.00 | 11196 | 2320 | NMRV-P050/110 | TH63B4 | - | - |
| 0.9 | 1.0 | 6186 | 60.00 | 30.00 | 1800.00 | 6196 | 1839 | NMRV-P040/090 | TH63B4 | - | - |
| 0.7 | 1.3 | 8138 | 60.00 | 40.00 | 2400.00 | 10488 | 2320 | NMRV-P050/110 | TH63B4 | - | - |
| 0.6 | 1.0 | 9702 | 60.00 | 50.00 | 3000.00 | 9736 | 2320 | NMRV-P050/110 | TH63B4 | - | - |

0.33 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 16.6 | 3.6 | 842 | 10.00 | 10.00 | 100.00 | 3035 | 1458 | NMRV-P040/090 | TH63D4 | - | - |
| 17.2 | 3.6 | 842 | 10.00 | 10.00 | 100.00 | 3035 | 1458 | NMRV-P040/090 | TH71A4 | - | - |
| 16.6 | 3.6 | 821 | 10.00 | 10.00 | 100.00 | 2961 | 1318 | NMRV-P040/075 | TH63D4 | - | - |

0.33 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 17.2 | 3.6 | 821 | 10.00 | 10.00 | 100.00 | 2961 | 1318 | NMRV-P040/075 | TH71A4 | - | - |
| 16.6 | 2.8 | 811 | 10.00 | 10.00 | 100.00 | 2277 | 1117 | NMRV-P040/063 | TH63D4 | - | - |
| 17.2 | 2.8 | 811 | 10.00 | 10.00 | 100.00 | 2277 | 1117 | NMRV-P040/063 | TH71A4 | - | - |
| 16.6 | 1.6 | 792 | 10.00 | 10.00 | 100.00 | 1264 | 1117 | NMRV-P030/063 | TH63D4 | - | - |
| 16.6 | 1.5 | 792 | 10.00 | 10.00 | 100.00 | 1213 | 854 | NMRV030/050 | TH63D4 | - | - |
| 16.6 | 1.5 | 811 | 10.00 | 10.00 | 100.00 | 1213 | 854 | NMRV040/050 | TH63D4 | - | - |
| 17.2 | 1.5 | 811 | 10.00 | 10.00 | 100.00 | 1213 | 854 | NMRV040/050 | TH71A4 | - | - |
| 11.1 | 3.6 | 1201 | 10.00 | 15.00 | 150.00 | 4330 | 1669 | NMRV-P040/090 | TH63D4 | - | - |
| 11.5 | 3.6 | 1201 | 10.00 | 15.00 | 150.00 | 4330 | 1669 | NMRV-P040/090 | TH71A4 | - | - |
| 11.1 | 3.2 | 1170 | 10.00 | 15.00 | 150.00 | 3761 | 1509 | NMRV-P040/075 | TH63D4 | - | - |
| 11.5 | 3.2 | 1170 | 10.00 | 15.00 | 150.00 | 3761 | 1509 | NMRV-P040/075 | TH71A4 | - | - |
| 11.1 | 2.0 | 1139 | 10.00 | 15.00 | 150.00 | 2300 | 1278 | NMRV-P040/063 | TH63D4 | - | - |
| 11.5 | 2.0 | 1139 | 10.00 | 15.00 | 150.00 | 2300 | 1278 | NMRV-P040/063 | TH71A4 | - | - |
| 11.1 | 1.6 | 1112 | 10.00 | 15.00 | 150.00 | 1777 | 1278 | NMRV-P030/063 | TH63D4 | - | - |
| 11.1 | 1.1 | 1097 | 10.00 | 15.00 | 150.00 | 1195 | 978 | NMRV030/050 | TH63D4 | - | - |
| 11.1 | 1.1 | 1124 | 10.00 | 15.00 | 150.00 | 1195 | 978 | NMRV040/050 | TH63D4 | - | - |
| 11.5 | 1.1 | 1124 | 10.00 | 15.00 | 150.00 | 1195 | 978 | NMRV040/050 | TH71A4 | - | - |
| 8.3 | 3.5 | 1540 | 10.00 | 20.00 | 200.00 | 5399 | 1838 | NMRV-P040/090 | TH63D4 | - | - |
| 8.6 | 3.5 | 1540 | 10.00 | 20.00 | 200.00 | 5399 | 1838 | NMRV-P040/090 | TH71A4 | - | - |
| 8.6 | 3.4 | 1576 | 10.00 | 20.00 | 200.00 | 5399 | 1838 | NMRV-P050/090 | TH71A4 | - | - |
| 8.3 | 2.5 | 1478 | 10.00 | 20.00 | 200.00 | 3715 | 1659 | NMRV-P040/075 | TH63D4 | - | - |
| 8.6 | 2.5 | 1478 | 10.00 | 20.00 | 200.00 | 3715 | 1659 | NMRV-P040/075 | TH71A4 | - | - |
| 8.3 | 1.6 | 1403 | 10.00 | 20.00 | 200.00 | 2239 | 1407 | NMRV-P030/063 | TH63D4 | - | - |
| 8.3 | 1.6 | 1437 | 10.00 | 20.00 | 200.00 | 2239 | 1407 | NMRV-P040/063 | TH63D4 | - | - |
| 8.6 | 1.6 | 1437 | 10.00 | 20.00 | 200.00 | 2239 | 1407 | NMRV-P040/063 | TH71A4 | - | - |
| 6.6 | 2.7 | 1847 | 10.00 | 25.00 | 250.00 | 5045 | 1839 | NMRV-P040/090 | TH63D4 | - | - |
| 6.9 | 2.7 | 1847 | 10.00 | 25.00 | 250.00 | 5045 | 1839 | NMRV-P040/090 | TH71A4 | - | - |
| 6.9 | 2.7 | 1891 | 10.00 | 25.00 | 250.00 | 5045 | 1839 | NMRV-P050/090 | TH71A4 | - | - |
| 6.6 | 1.9 | 1770 | 10.00 | 25.00 | 250.00 | 3359 | 1659 | NMRV-P040/075 | TH63D4 | - | - |
| 6.9 | 1.9 | 1770 | 10.00 | 25.00 | 250.00 | 3359 | 1659 | NMRV-P040/075 | TH71A4 | - | - |
| 6.6 | 1.2 | 1679 | 10.00 | 25.00 | 250.00 | 2045 | 1410 | NMRV-P030/063 | TH63D4 | - | - |
| 6.6 | 1.2 | 1719 | 10.00 | 25.00 | 250.00 | 2045 | 1410 | NMRV-P040/063 | TH63D4 | - | - |
| 6.9 | 1.2 | 1719 | 10.00 | 25.00 | 250.00 | 2045 | 1410 | NMRV-P040/063 | TH71A4 | - | - |
| 5.5 | 3.0 | 2063 | 10.00 | 30.00 | 300.00 | 6196 | 1839 | NMRV-P040/090 | TH63D4 | - | - |
| 5.7 | 3.0 | 2063 | 10.00 | 30.00 | 300.00 | 6196 | 1839 | NMRV-P040/090 | TH71A4 | - | - |
| 5.7 | 2.9 | 2112 | 10.00 | 30.00 | 300.00 | 6196 | 1839 | NMRV-P050/090 | TH71A4 | - | - |
| 5.5 | 2.0 | 1971 | 10.00 | 30.00 | 300.00 | 3929 | 1659 | NMRV-P040/075 | TH63D4 | - | - |
| 5.7 | 2.0 | 1971 | 10.00 | 30.00 | 300.00 | 3929 | 1659 | NMRV-P040/075 | TH71A4 | - | - |

5.9 DOUBLE WORM GEARMOTOR

0.33 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 5.5 | 1.3 | 1878 | 10.00 | 30.00 | 300.00 | 2398 | 1410 | NMRV-P040/063 | TH63D4 | - | - |
| 5.7 | 1.3 | 1878 | 10.00 | 30.00 | 300.00 | 2398 | 1410 | NMRV-P040/063 | TH71A4 | - | - |
| 5.5 | 1.3 | 1724 | 7.50 | 40.00 | 300.00 | 2259 | 1410 | NMRV-P030/063 | TH63D4 | - | - |
| 4.3 | 3.8 | 2731 | 10.00 | 40.00 | 400.00 | 10488 | 2320 | NMRV-P050/110 | TH71A4 | - | - |
| 4.3 | 3.8 | 2745 | 10.00 | 40.00 | 400.00 | 10488 | 2320 | NMRV-P063/110 | TH71A4 | - | - |
| 4.2 | 2.1 | 2545 | 10.00 | 40.00 | 400.00 | 5399 | 1839 | NMRV-P040/090 | TH63D4 | - | - |
| 4.3 | 2.1 | 2545 | 10.00 | 40.00 | 400.00 | 5399 | 1839 | NMRV-P040/090 | TH71A4 | - | - |
| 4.3 | 2.1 | 2605 | 10.00 | 40.00 | 400.00 | 5399 | 1839 | NMRV-P050/090 | TH71A4 | - | - |
| 4.2 | 1.5 | 2422 | 10.00 | 40.00 | 400.00 | 3664 | 1659 | NMRV-P040/075 | TH63D4 | - | - |
| 4.3 | 1.5 | 2422 | 10.00 | 40.00 | 400.00 | 3664 | 1659 | NMRV-P040/075 | TH71A4 | - | - |
| 4.2 | 1.0 | 2245 | 10.00 | 40.00 | 400.00 | 2259 | 1410 | NMRV-P030/063 | TH63D4 | - | - |
| 3.4 | 2.9 | 3622 | 20.00 | 25.00 | 500.00 | 10382 | 2320 | NMRV-P050/110 | TH71A4 | - | - |
| 3.4 | 2.8 | 3742 | 20.00 | 25.00 | 500.00 | 10382 | 2320 | NMRV-P063/110 | TH71A4 | - | - |
| 3.4 | 1.5 | 3478 | 20.00 | 25.00 | 500.00 | 5045 | 1839 | NMRV-P050/090 | TH71A4 | - | - |
| 3.3 | 1.7 | 2976 | 10.00 | 50.00 | 500.00 | 4956 | 1839 | NMRV-P040/090 | TH63D4 | - | - |
| 3.4 | 1.7 | 2976 | 10.00 | 50.00 | 500.00 | 4956 | 1839 | NMRV-P040/090 | TH71A4 | - | - |
| 3.3 | 1.2 | 2771 | 10.00 | 50.00 | 500.00 | 3257 | 1659 | NMRV-P040/075 | TH63D4 | - | - |
| 3.4 | 1.2 | 2771 | 10.00 | 50.00 | 500.00 | 3257 | 1659 | NMRV-P040/075 | TH71A4 | - | - |
| 2.9 | 3.8 | 4071 | 20.00 | 30.00 | 600.00 | 15577 | 3035 | NMRV-P063/130 | TH71A4 | - | - |
| 2.9 | 2.9 | 3883 | 20.00 | 30.00 | 600.00 | 11196 | 2320 | NMRV-P050/110 | TH71A4 | - | - |
| 2.9 | 2.8 | 4012 | 20.00 | 30.00 | 600.00 | 11196 | 2320 | NMRV-P063/110 | TH71A4 | - | - |
| 2.8 | 1.6 | 3835 | 20.00 | 30.00 | 600.00 | 6196 | 1839 | NMRV-P040/090 | TH63D4 | - | - |
| 2.9 | 1.6 | 3835 | 20.00 | 30.00 | 600.00 | 6196 | 1839 | NMRV-P040/090 | TH71A4 | - | - |
| 2.9 | 1.6 | 3883 | 20.00 | 30.00 | 600.00 | 6196 | 1839 | NMRV-P050/090 | TH71A4 | - | - |
| 2.8 | 1.1 | 3663 | 20.00 | 30.00 | 600.00 | 3929 | 1659 | NMRV-P040/075 | TH63D4 | - | - |
| 2.9 | 1.1 | 3663 | 20.00 | 30.00 | 600.00 | 3929 | 1659 | NMRV-P040/075 | TH71A4 | - | - |
| 2.3 | 3.2 | 4918 | 25.00 | 30.00 | 750.00 | 15577 | 3035 | NMRV-P063/130 | TH71A4 | - | - |
| 2.3 | 2.4 | 4672 | 25.00 | 30.00 | 750.00 | 11196 | 2320 | NMRV-P050/110 | TH71A4 | - | - |
| 2.3 | 2.3 | 4845 | 25.00 | 30.00 | 750.00 | 11196 | 2320 | NMRV-P063/110 | TH71A4 | - | - |
| 2.2 | 1.3 | 4611 | 25.00 | 30.00 | 750.00 | 6196 | 1839 | NMRV-P040/090 | TH63D4 | - | - |
| 2.3 | 1.3 | 4611 | 25.00 | 30.00 | 750.00 | 6196 | 1839 | NMRV-P040/090 | TH71A4 | - | - |
| 2.3 | 1.3 | 4672 | 25.00 | 30.00 | 750.00 | 6196 | 1839 | NMRV-P050/090 | TH71A4 | - | - |
| 1.9 | 3.1 | 6018 | 30.00 | 30.00 | 900.00 | 18587 | 4047 | NMRV-P063/150 | TH71A4 | - | - |
| 1.9 | 2.8 | 5606 | 30.00 | 30.00 | 900.00 | 15577 | 3035 | NMRV-P063/130 | TH71A4 | - | - |
| 1.9 | 2.1 | 5315 | 30.00 | 30.00 | 900.00 | 11196 | 2320 | NMRV-P050/110 | TH71A4 | - | - |
| 1.9 | 2.0 | 5523 | 30.00 | 30.00 | 900.00 | 11196 | 2320 | NMRV-P063/110 | TH71A4 | - | - |
| 1.8 | 1.2 | 5170 | 30.00 | 30.00 | 900.00 | 6196 | 1839 | NMRV-P040/090 | TH63D4 | - | - |
| 1.9 | 1.2 | 5170 | 30.00 | 30.00 | 900.00 | 6196 | 1839 | NMRV-P040/090 | TH71A4 | - | - |

5.9 DOUBLE WORM GEARMOTOR

0.33 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 1.9 | 1.2 | 5315 | 30.00 | 30.00 | 900.00 | 6196 | 1839 | NMRV-P050/090 | TH71A4 | - | - |
| 1.4 | 3.3 | 7254 | 30.00 | 40.00 | 1200.00 | 23631 | 4047 | NMRV-P063/150 | TH71A4 | - | - |
| 1.4 | 2.2 | 7101 | 40.00 | 30.00 | 1200.00 | 15577 | 3035 | NMRV-P063/130 | TH71A4 | - | - |
| 1.4 | 1.7 | 6602 | 40.00 | 30.00 | 1200.00 | 11196 | 2320 | NMRV-P050/110 | TH63D4 | - | - |
| 1.4 | 1.7 | 6602 | 40.00 | 30.00 | 1200.00 | 11196 | 2320 | NMRV-P050/110 | TH71A4 | - | - |
| 1.4 | 1.6 | 6997 | 40.00 | 30.00 | 1200.00 | 11196 | 2320 | NMRV-P063/110 | TH71A4 | - | - |
| 1.1 | 2.4 | 8519 | 30.00 | 50.00 | 1500.00 | 20622 | 4047 | NMRV-P063/150 | TH71A4 | - | - |
| 1.1 | 1.9 | 8384 | 50.00 | 30.00 | 1500.00 | 15577 | 3035 | NMRV-P063/130 | TH71A4 | - | - |
| 1.1 | 1.4 | 7767 | 50.00 | 30.00 | 1500.00 | 11196 | 2320 | NMRV-P050/110 | TH63D4 | - | - |
| 1.1 | 1.4 | 7767 | 50.00 | 30.00 | 1500.00 | 11196 | 2320 | NMRV-P050/110 | TH71A4 | - | - |
| 1.1 | 1.4 | 8261 | 50.00 | 30.00 | 1500.00 | 11196 | 2320 | NMRV-P063/110 | TH71A4 | - | - |
| 1.0 | 1.8 | 10200 | 60.00 | 30.00 | 1800.00 | 18587 | 4047 | NMRV-P063/150 | TH71A4 | - | - |
| 1.0 | 1.6 | 9501 | 60.00 | 30.00 | 1800.00 | 15577 | 3035 | NMRV-P063/130 | TH71A4 | - | - |
| 0.9 | 1.3 | 8737 | 60.00 | 30.00 | 1800.00 | 11196 | 2320 | NMRV-P050/110 | TH63D4 | - | - |
| 1.0 | 1.3 | 8737 | 60.00 | 30.00 | 1800.00 | 11196 | 2320 | NMRV-P050/110 | TH71A4 | - | - |
| 1.0 | 1.2 | 9362 | 60.00 | 30.00 | 1800.00 | 11196 | 2320 | NMRV-P063/110 | TH71A4 | - | - |
| 0.7 | 1.9 | 12296 | 60.00 | 40.00 | 2400.00 | 23631 | 4047 | NMRV-P063/150 | TH71A4 | - | - |
| 0.7 | 1.2 | 12109 | 60.00 | 40.00 | 2400.00 | 14604 | 3035 | NMRV-P063/130 | TH71A4 | - | - |
| 0.6 | 1.4 | 14438 | 60.00 | 50.00 | 3000.00 | 20622 | 4047 | NMRV-P063/150 | TH71A4 | - | - |
| 0.4 | 1.2 | 17773 | 80.00 | 50.00 | 4000.00 | 20622 | 4047 | NMRV-P063/150 | TH71A4 | - | - |
| 0.3 | 1.0 | 20026 | 100.00 | 50.00 | 5000.00 | 20622 | 4047 | NMRV-P063/150 | TH71A4 | - | - |

0.5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 17.1 | 2.4 | 1246 | 10.00 | 10.00 | 100.00 | 3035 | 1458 | NMRV-P040/090 | TH71B4 | - | - |
| 17.1 | 2.4 | 1215 | 10.00 | 10.00 | 100.00 | 2961 | 1318 | NMRV-P040/075 | TH71B4 | - | - |
| 17.1 | 1.9 | 1200 | 10.00 | 10.00 | 100.00 | 2277 | 1117 | NMRV-P040/063 | TH71B4 | - | - |
| 17.1 | 1.0 | 1200 | 10.00 | 10.00 | 100.00 | 1213 | 854 | NMRV040/050 | TH71B4 | - | - |
| 11.4 | 3.2 | 1819 | 10.00 | 15.00 | 150.00 | 5841 | 1669 | NMRV-P050/090 | TH71B4 | - | - |
| 11.4 | 2.4 | 1777 | 10.00 | 15.00 | 150.00 | 4330 | 1669 | NMRV-P040/090 | TH71B4 | - | - |
| 11.4 | 2.2 | 1732 | 10.00 | 15.00 | 150.00 | 3761 | 1509 | NMRV-P040/075 | TH71B4 | - | - |
| 11.4 | 1.4 | 1686 | 10.00 | 15.00 | 150.00 | 2300 | 1278 | NMRV-P040/063 | TH71B4 | - | - |
| 8.6 | 2.4 | 2279 | 10.00 | 20.00 | 200.00 | 5399 | 1838 | NMRV-P040/090 | TH71B4 | - | - |
| 8.6 | 2.3 | 2332 | 10.00 | 20.00 | 200.00 | 5399 | 1838 | NMRV-P050/090 | TH71B4 | - | - |
| 8.6 | 1.7 | 2187 | 10.00 | 20.00 | 200.00 | 3715 | 1659 | NMRV-P040/075 | TH71B4 | - | - |
| 8.6 | 1.1 | 2127 | 10.00 | 20.00 | 200.00 | 2239 | 1407 | NMRV-P040/063 | TH71B4 | - | - |
| 6.8 | 3.6 | 2915 | 10.00 | 25.00 | 250.00 | 10382 | 2320 | NMRV-P050/110 | TH71B4 | - | - |

5.9 DOUBLE WORM GEARMOTOR

0.5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 6.8 | 3.5 | 2930 | 10.00 | 25.00 | 250.00 | 10382 | 2320 | NMRV-P063/110 | TH71B4 | - | - |
| 6.8 | 1.8 | 2734 | 10.00 | 25.00 | 250.00 | 5045 | 1839 | NMRV-P040/090 | TH71B4 | - | - |
| 6.8 | 1.8 | 2799 | 10.00 | 25.00 | 250.00 | 5045 | 1839 | NMRV-P050/090 | TH71B4 | - | - |
| 6.8 | 1.3 | 2620 | 10.00 | 25.00 | 250.00 | 3359 | 1659 | NMRV-P040/075 | TH71B4 | - | - |
| 5.7 | 3.6 | 3125 | 10.00 | 30.00 | 300.00 | 11196 | 2320 | NMRV-P050/110 | TH71B4 | - | - |
| 5.7 | 3.6 | 3140 | 10.00 | 30.00 | 300.00 | 11196 | 2320 | NMRV-P063/110 | TH71B4 | - | - |
| 5.7 | 2.0 | 3053 | 10.00 | 30.00 | 300.00 | 6196 | 1839 | NMRV-P040/090 | TH71B4 | - | - |
| 5.7 | 2.0 | 3125 | 10.00 | 30.00 | 300.00 | 6196 | 1839 | NMRV-P050/090 | TH71B4 | - | - |
| 5.7 | 1.3 | 2917 | 10.00 | 30.00 | 300.00 | 3929 | 1659 | NMRV-P040/075 | TH71B4 | - | - |
| 4.3 | 3.6 | 4062 | 10.00 | 40.00 | 400.00 | 14604 | 3035 | NMRV-P063/130 | TH71B4 | - | - |
| 4.3 | 2.6 | 4042 | 10.00 | 40.00 | 400.00 | 10488 | 2320 | NMRV-P050/110 | TH71B4 | - | - |
| 4.3 | 2.6 | 4062 | 10.00 | 40.00 | 400.00 | 10488 | 2320 | NMRV-P063/110 | TH71B4 | - | - |
| 4.3 | 1.4 | 3767 | 10.00 | 40.00 | 400.00 | 5399 | 1839 | NMRV-P040/090 | TH71B4 | - | - |
| 4.3 | 1.4 | 3856 | 10.00 | 40.00 | 400.00 | 5399 | 1839 | NMRV-P050/090 | TH71B4 | - | - |
| 4.3 | 1.0 | 3585 | 10.00 | 40.00 | 400.00 | 3664 | 1659 | NMRV-P040/075 | TH71B4 | - | - |
| 3.4 | 2.8 | 4844 | 10.00 | 50.00 | 500.00 | 13719 | 3035 | NMRV-P063/130 | TH71B4 | - | - |
| 3.4 | 1.9 | 5361 | 20.00 | 25.00 | 500.00 | 10382 | 2320 | NMRV-P050/110 | TH71B4 | - | - |
| 3.4 | 1.9 | 5538 | 20.00 | 25.00 | 500.00 | 10382 | 2320 | NMRV-P063/110 | TH71B4 | - | - |
| 3.4 | 1.1 | 4405 | 10.00 | 50.00 | 500.00 | 4956 | 1839 | NMRV-P040/090 | TH71B4 | - | - |
| 2.9 | 3.9 | 5990 | 15.00 | 40.00 | 600.00 | 23631 | 4047 | NMRV-P063/150 | TH71B4 | - | - |
| 2.9 | 2.6 | 6026 | 20.00 | 30.00 | 600.00 | 15577 | 3035 | NMRV-P063/130 | TH71B4 | - | - |
| 2.9 | 1.9 | 5747 | 20.00 | 30.00 | 600.00 | 11196 | 2320 | NMRV-P050/110 | TH71B4 | - | - |
| 2.9 | 1.9 | 5937 | 20.00 | 30.00 | 600.00 | 11196 | 2320 | NMRV-P063/110 | TH71B4 | - | - |
| 2.9 | 1.1 | 5675 | 20.00 | 30.00 | 600.00 | 6196 | 1839 | NMRV-P040/090 | TH71B4 | - | - |
| 2.9 | 1.1 | 5747 | 20.00 | 30.00 | 600.00 | 6196 | 1839 | NMRV-P050/090 | TH71B4 | - | - |
| 2.3 | 2.9 | 7034 | 15.00 | 50.00 | 750.00 | 20622 | 4047 | NMRV-P063/150 | TH71B4 | - | - |
| 2.3 | 2.1 | 7278 | 25.00 | 30.00 | 750.00 | 15577 | 3035 | NMRV-P063/130 | TH71B4 | - | - |
| 2.3 | 1.6 | 6915 | 25.00 | 30.00 | 750.00 | 11196 | 2320 | NMRV-P050/110 | TH71B4 | - | - |
| 2.3 | 1.6 | 7171 | 25.00 | 30.00 | 750.00 | 11196 | 2320 | NMRV-P063/110 | TH71B4 | - | - |
| 1.9 | 2.1 | 8907 | 30.00 | 30.00 | 900.00 | 18587 | 4047 | NMRV-P063/150 | TH71B4 | - | - |
| 1.9 | 1.9 | 8296 | 30.00 | 30.00 | 900.00 | 15577 | 3035 | NMRV-P063/130 | TH71B4 | - | - |
| 1.9 | 1.4 | 7867 | 30.00 | 30.00 | 900.00 | 11196 | 2320 | NMRV-P050/110 | TH71B4 | - | - |
| 1.9 | 1.4 | 8174 | 30.00 | 30.00 | 900.00 | 11196 | 2320 | NMRV-P063/110 | TH71B4 | - | - |
| 1.4 | 2.2 | 10737 | 30.00 | 40.00 | 1200.00 | 23631 | 4047 | NMRV-P063/150 | TH71B4 | - | - |
| 1.4 | 1.5 | 10510 | 40.00 | 30.00 | 1200.00 | 15577 | 3035 | NMRV-P063/130 | TH71B4 | - | - |
| 1.4 | 1.1 | 9770 | 40.00 | 30.00 | 1200.00 | 11196 | 2320 | NMRV-P050/110 | TH71B4 | - | - |
| 1.4 | 1.1 | 10355 | 40.00 | 30.00 | 1200.00 | 11196 | 2320 | NMRV-P063/110 | TH71B4 | - | - |
| 1.1 | 1.6 | 12607 | 30.00 | 50.00 | 1500.00 | 20622 | 4047 | NMRV-P063/150 | TH71B4 | - | - |

5.9 DOUBLE WORM GEARMOTOR

0.5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 1.1 | 1.3 | 12408 | 50.00 | 30.00 | 1500.00 | 15577 | 3035 | NMRV-P063/130 | TH71B4 | - | - |
| 0.9 | 1.2 | 15096 | 60.00 | 30.00 | 1800.00 | 18587 | 4047 | NMRV-P063/150 | TH71B4 | - | - |
| 0.9 | 1.1 | 14062 | 60.00 | 30.00 | 1800.00 | 15577 | 3035 | NMRV-P063/130 | TH71B4 | - | - |
| 0.7 | 1.3 | 18198 | 60.00 | 40.00 | 2400.00 | 23631 | 4047 | NMRV-P063/150 | TH71B4 | - | - |

0.75 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 17.0 | 2.9 | 1895 | 10.00 | 10.00 | 100.00 | 5446 | 1843 | NMRV-P050/110 | TH71C4 | - | - |
| 17.3 | 2.9 | 1895 | 10.00 | 10.00 | 100.00 | 5446 | 1843 | NMRV-P050/110 | TH80A4 | - | - |
| 17.0 | 2.8 | 1895 | 10.00 | 10.00 | 100.00 | 5222 | 1458 | NMRV-P050/090 | TH71C4 | - | - |
| 17.3 | 2.8 | 1895 | 10.00 | 10.00 | 100.00 | 5222 | 1458 | NMRV-P050/090 | TH80A4 | - | - |
| 17.0 | 1.6 | 1852 | 10.00 | 10.00 | 100.00 | 3035 | 1458 | NMRV-P040/090 | TH71C4 | - | - |
| 17.0 | 1.6 | 1806 | 10.00 | 10.00 | 100.00 | 2961 | 1318 | NMRV-P040/075 | TH71C4 | - | - |
| 17.0 | 1.3 | 1784 | 10.00 | 10.00 | 100.00 | 2277 | 1117 | NMRV-P040/063 | TH71C4 | - | - |
| 11.3 | 3.8 | 2752 | 10.00 | 15.00 | 150.00 | 10585 | 2110 | NMRV-P063/110 | TH71C4 | - | - |
| 11.5 | 3.8 | 2752 | 10.00 | 15.00 | 150.00 | 10585 | 2110 | NMRV-P063/110 | TH80A4 | - | - |
| 11.3 | 2.9 | 2739 | 10.00 | 15.00 | 150.00 | 7871 | 2110 | NMRV-P050/110 | TH71C4 | - | - |
| 11.5 | 2.9 | 2739 | 10.00 | 15.00 | 150.00 | 7871 | 2110 | NMRV-P050/110 | TH80A4 | - | - |
| 11.3 | 2.2 | 2704 | 10.00 | 15.00 | 150.00 | 5841 | 1669 | NMRV-P050/090 | TH71C4 | - | - |
| 11.5 | 2.2 | 2704 | 10.00 | 15.00 | 150.00 | 5841 | 1669 | NMRV-P050/090 | TH80A4 | - | - |
| 11.3 | 1.6 | 2642 | 10.00 | 15.00 | 150.00 | 4330 | 1669 | NMRV-P040/090 | TH71C4 | - | - |
| 11.3 | 1.5 | 2574 | 10.00 | 15.00 | 150.00 | 3761 | 1509 | NMRV-P040/075 | TH71C4 | - | - |
| 8.5 | 4.0 | 3577 | 10.00 | 20.00 | 200.00 | 14161 | 3035 | NMRV-P063/130 | TH71C4 | - | - |
| 8.7 | 4.0 | 3577 | 10.00 | 20.00 | 200.00 | 14161 | 3035 | NMRV-P063/130 | TH80A4 | - | - |
| 8.5 | 2.8 | 3559 | 10.00 | 20.00 | 200.00 | 10081 | 2320 | NMRV-P050/110 | TH71C4 | - | - |
| 8.7 | 2.8 | 3559 | 10.00 | 20.00 | 200.00 | 10081 | 2320 | NMRV-P050/110 | TH80A4 | - | - |
| 8.5 | 2.8 | 3577 | 10.00 | 20.00 | 200.00 | 10081 | 2320 | NMRV-P063/110 | TH71C4 | - | - |
| 8.7 | 2.8 | 3577 | 10.00 | 20.00 | 200.00 | 10081 | 2320 | NMRV-P063/110 | TH80A4 | - | - |
| 8.5 | 1.6 | 3387 | 10.00 | 20.00 | 200.00 | 5399 | 1838 | NMRV-P040/090 | TH71C4 | - | - |
| 8.5 | 1.6 | 3467 | 10.00 | 20.00 | 200.00 | 5399 | 1838 | NMRV-P050/090 | TH71C4 | - | - |
| 8.7 | 1.6 | 3467 | 10.00 | 20.00 | 200.00 | 5399 | 1838 | NMRV-P050/090 | TH80A4 | - | - |
| 8.5 | 1.1 | 3252 | 10.00 | 20.00 | 200.00 | 3715 | 1659 | NMRV-P040/075 | TH71C4 | - | - |
| 6.8 | 3.1 | 4355 | 10.00 | 25.00 | 250.00 | 13542 | 3035 | NMRV-P063/130 | TH71C4 | - | - |
| 6.9 | 3.1 | 4355 | 10.00 | 25.00 | 250.00 | 13542 | 3035 | NMRV-P063/130 | TH80A4 | - | - |
| 6.8 | 2.4 | 4333 | 10.00 | 25.00 | 250.00 | 10382 | 2320 | NMRV-P050/110 | TH71C4 | - | - |
| 6.9 | 2.4 | 4333 | 10.00 | 25.00 | 250.00 | 10382 | 2320 | NMRV-P050/110 | TH80A4 | - | - |
| 6.8 | 2.4 | 4355 | 10.00 | 25.00 | 250.00 | 10382 | 2320 | NMRV-P063/110 | TH71C4 | - | - |

5.9 DOUBLE WORM GEARMOTOR

0.75 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 6.9 | 2.4 | 4355 | 10.00 | 25.00 | 250.00 | 10382 | 2320 | NMRV-P063/110 | TH80A4 | - | - |
| 6.8 | 1.2 | 4064 | 10.00 | 25.00 | 250.00 | 5045 | 1839 | NMRV-P040/090 | TH71C4 | - | - |
| 6.8 | 1.2 | 4160 | 10.00 | 25.00 | 250.00 | 5045 | 1839 | NMRV-P050/090 | TH71C4 | - | - |
| 6.9 | 1.2 | 4160 | 10.00 | 25.00 | 250.00 | 5045 | 1839 | NMRV-P050/090 | TH80A4 | - | - |
| 5.7 | 3.7 | 5194 | 15.00 | 20.00 | 300.00 | 19038 | 4047 | NMRV-P063/150 | TH71C4 | - | - |
| 5.8 | 3.7 | 5194 | 15.00 | 20.00 | 300.00 | 19038 | 4047 | NMRV-P063/150 | TH80A4 | - | - |
| 5.7 | 3.3 | 4738 | 10.00 | 30.00 | 300.00 | 15577 | 3035 | NMRV-P063/130 | TH71C4 | - | - |
| 5.8 | 3.3 | 4738 | 10.00 | 30.00 | 300.00 | 15577 | 3035 | NMRV-P063/130 | TH80A4 | - | - |
| 5.7 | 2.4 | 4645 | 10.00 | 30.00 | 300.00 | 11196 | 2320 | NMRV-P050/110 | TH71C4 | - | - |
| 5.8 | 2.4 | 4645 | 10.00 | 30.00 | 300.00 | 11196 | 2320 | NMRV-P050/110 | TH80A4 | - | - |
| 5.7 | 2.4 | 4668 | 10.00 | 30.00 | 300.00 | 11196 | 2320 | NMRV-P063/110 | TH71C4 | - | - |
| 5.8 | 2.4 | 4668 | 10.00 | 30.00 | 300.00 | 11196 | 2320 | NMRV-P063/110 | TH80A4 | - | - |
| 5.7 | 1.4 | 4539 | 10.00 | 30.00 | 300.00 | 6196 | 1839 | NMRV-P040/090 | TH71C4 | - | - |
| 5.7 | 1.3 | 4645 | 10.00 | 30.00 | 300.00 | 6196 | 1839 | NMRV-P050/090 | TH71C4 | - | - |
| 5.8 | 1.3 | 4645 | 10.00 | 30.00 | 300.00 | 6196 | 1839 | NMRV-P050/090 | TH80A4 | - | - |
| 4.2 | 3.9 | 6131 | 10.00 | 40.00 | 400.00 | 23631 | 4047 | NMRV-P063/150 | TH71C4 | - | - |
| 4.3 | 3.9 | 6131 | 10.00 | 40.00 | 400.00 | 23631 | 4047 | NMRV-P063/150 | TH80A4 | - | - |
| 4.2 | 2.4 | 6039 | 10.00 | 40.00 | 400.00 | 14604 | 3035 | NMRV-P063/130 | TH71C4 | - | - |
| 4.3 | 2.4 | 6039 | 10.00 | 40.00 | 400.00 | 14604 | 3035 | NMRV-P063/130 | TH80A4 | - | - |
| 4.2 | 1.7 | 6009 | 10.00 | 40.00 | 400.00 | 10488 | 2320 | NMRV-P050/110 | TH71C4 | - | - |
| 4.3 | 1.7 | 6009 | 10.00 | 40.00 | 400.00 | 10488 | 2320 | NMRV-P050/110 | TH80A4 | - | - |
| 4.2 | 1.7 | 6039 | 10.00 | 40.00 | 400.00 | 10488 | 2320 | NMRV-P063/110 | TH71C4 | - | - |
| 4.3 | 1.7 | 6039 | 10.00 | 40.00 | 400.00 | 10488 | 2320 | NMRV-P063/110 | TH80A4 | - | - |
| 3.4 | 2.9 | 7200 | 10.00 | 50.00 | 500.00 | 20622 | 4047 | NMRV-P063/150 | TH71C4 | - | - |
| 3.5 | 2.9 | 7200 | 10.00 | 50.00 | 500.00 | 20622 | 4047 | NMRV-P063/150 | TH80A4 | - | - |
| 3.4 | 1.9 | 7200 | 10.00 | 50.00 | 500.00 | 13719 | 3035 | NMRV-P063/130 | TH71C4 | - | - |
| 3.5 | 1.9 | 7200 | 10.00 | 50.00 | 500.00 | 13719 | 3035 | NMRV-P063/130 | TH80A4 | - | - |
| 3.4 | 1.3 | 7969 | 20.00 | 25.00 | 500.00 | 10382 | 2320 | NMRV-P050/110 | TH71C4 | - | - |
| 3.5 | 1.3 | 7969 | 20.00 | 25.00 | 500.00 | 10382 | 2320 | NMRV-P050/110 | TH80A4 | - | - |
| 3.4 | 1.3 | 8233 | 20.00 | 25.00 | 500.00 | 10382 | 2320 | NMRV-P063/110 | TH71C4 | - | - |
| 3.5 | 1.3 | 8233 | 20.00 | 25.00 | 500.00 | 10382 | 2320 | NMRV-P063/110 | TH80A4 | - | - |
| 2.8 | 2.7 | 8904 | 15.00 | 40.00 | 600.00 | 23631 | 4047 | NMRV-P063/150 | TH71C4 | - | - |
| 2.9 | 2.7 | 8904 | 15.00 | 40.00 | 600.00 | 23631 | 4047 | NMRV-P063/150 | TH80A4 | - | - |
| 2.8 | 1.7 | 8957 | 20.00 | 30.00 | 600.00 | 15577 | 3035 | NMRV-P063/130 | TH71C4 | - | - |
| 2.9 | 1.7 | 8957 | 20.00 | 30.00 | 600.00 | 15577 | 3035 | NMRV-P063/130 | TH80A4 | - | - |
| 2.8 | 1.3 | 8543 | 20.00 | 30.00 | 600.00 | 11196 | 2320 | NMRV-P050/110 | TH71C4 | - | - |
| 2.9 | 1.3 | 8543 | 20.00 | 30.00 | 600.00 | 11196 | 2320 | NMRV-P050/110 | TH80A4 | - | - |
| 2.8 | 1.3 | 8825 | 20.00 | 30.00 | 600.00 | 11196 | 2320 | NMRV-P063/110 | TH71C4 | - | - |

5.9 DOUBLE WORM GEARMOTOR

0.75 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 2.9 | 1.3 | 8825 | 20.00 | 30.00 | 600.00 | 11196 | 2320 | NMRV-P063/110 | TH80A4 | - | - |
| 2.3 | 2.0 | 10456 | 15.00 | 50.00 | 750.00 | 20622 | 4047 | NMRV-P063/150 | TH71C4 | - | - |
| 2.3 | 2.0 | 10456 | 15.00 | 50.00 | 750.00 | 20622 | 4047 | NMRV-P063/150 | TH80A4 | - | - |
| 2.3 | 1.4 | 10819 | 25.00 | 30.00 | 750.00 | 15577 | 3035 | NMRV-P063/130 | TH71C4 | - | - |
| 2.3 | 1.4 | 10819 | 25.00 | 30.00 | 750.00 | 15577 | 3035 | NMRV-P063/130 | TH80A4 | - | - |
| 2.3 | 1.1 | 10279 | 25.00 | 30.00 | 750.00 | 11196 | 2320 | NMRV-P050/110 | TH71C4 | - | - |
| 2.3 | 1.1 | 10279 | 25.00 | 30.00 | 750.00 | 11196 | 2320 | NMRV-P050/110 | TH80A4 | - | - |
| 2.3 | 1.1 | 10660 | 25.00 | 30.00 | 750.00 | 11196 | 2320 | NMRV-P063/110 | TH71C4 | - | - |
| 2.3 | 1.1 | 10660 | 25.00 | 30.00 | 750.00 | 11196 | 2320 | NMRV-P063/110 | TH80A4 | - | - |
| 1.9 | 1.4 | 13239 | 30.00 | 30.00 | 900.00 | 18587 | 4047 | NMRV-P063/150 | TH71C4 | - | - |
| 1.9 | 1.4 | 13239 | 30.00 | 30.00 | 900.00 | 18587 | 4047 | NMRV-P063/150 | TH80A4 | - | - |
| 1.9 | 1.3 | 12333 | 30.00 | 30.00 | 900.00 | 15577 | 3035 | NMRV-P063/130 | TH71C4 | - | - |
| 1.9 | 1.3 | 12333 | 30.00 | 30.00 | 900.00 | 15577 | 3035 | NMRV-P063/130 | TH80A4 | - | - |
| 1.4 | 1.5 | 15960 | 30.00 | 40.00 | 1200.00 | 23631 | 4047 | NMRV-P063/150 | TH71C4 | - | - |
| 1.4 | 1.5 | 15960 | 30.00 | 40.00 | 1200.00 | 23631 | 4047 | NMRV-P063/150 | TH80A4 | - | - |
| 1.1 | 1.1 | 18741 | 30.00 | 50.00 | 1500.00 | 20622 | 4047 | NMRV-P063/150 | TH71C4 | - | - |
| 1.1 | 1.1 | 18741 | 30.00 | 50.00 | 1500.00 | 20622 | 4047 | NMRV-P063/150 | TH80A4 | - | - |

1 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 17.5 | 3.5 | 2629 | 10.00 | 10.00 | 100.00 | 9201 | 2410 | NMRV-P063/130 | TP80B4 | - | - |
| 17.5 | 3.5 | 2629 | 10.00 | 10.00 | 100.00 | 9201 | 2410 | NMRV-P063/130 | TP80B4 | - | - |
| 17.3 | 3.5 | 2629 | 10.00 | 10.00 | 100.00 | 9201 | 2410 | NMRV-P063/130 | TP80B4 | - | - |
| 17.5 | 3.5 | 2597 | 10.00 | 10.00 | 100.00 | 9090 | 1843 | NMRV-P063/110 | TP80B4 | - | - |
| 17.5 | 3.5 | 2597 | 10.00 | 10.00 | 100.00 | 9090 | 1843 | NMRV-P063/110 | TP80B4 | - | - |
| 17.3 | 3.5 | 2597 | 10.00 | 10.00 | 100.00 | 9090 | 1843 | NMRV-P063/110 | TP80B4 | - | - |
| 17.5 | 2.1 | 2584 | 10.00 | 10.00 | 100.00 | 5446 | 1843 | NMRV-P050/110 | TP80B4 | - | - |
| 17.5 | 2.1 | 2584 | 10.00 | 10.00 | 100.00 | 5446 | 1843 | NMRV-P050/110 | TP80B4 | - | - |
| 17.3 | 2.1 | 2584 | 10.00 | 10.00 | 100.00 | 5446 | 1843 | NMRV-P050/110 | TP80B4 | - | - |
| 17.5 | 2.0 | 2584 | 10.00 | 10.00 | 100.00 | 5222 | 1458 | NMRV-P050/090 | TP80B4 | - | - |
| 17.5 | 2.0 | 2584 | 10.00 | 10.00 | 100.00 | 5222 | 1458 | NMRV-P050/090 | TP80B4 | - | - |
| 17.3 | 2.0 | 2584 | 10.00 | 10.00 | 100.00 | 5222 | 1458 | NMRV-P050/090 | TP80B4 | - | - |
| 11.7 | 3.5 | 3705 | 10.00 | 15.00 | 150.00 | 12969 | 2759 | NMRV-P063/130 | TP80B4 | - | - |
| 11.7 | 3.5 | 3705 | 10.00 | 15.00 | 150.00 | 12969 | 2759 | NMRV-P063/130 | TP80B4 | - | - |
| 11.5 | 3.5 | 3705 | 10.00 | 15.00 | 150.00 | 12969 | 2759 | NMRV-P063/130 | TP80B4 | - | - |
| 11.7 | 2.8 | 3753 | 10.00 | 15.00 | 150.00 | 10585 | 2110 | NMRV-P063/110 | TP80B4 | - | - |
| 11.7 | 2.8 | 3753 | 10.00 | 15.00 | 150.00 | 10585 | 2110 | NMRV-P063/110 | TP80B4 | - | - |

5.9 DOUBLE WORM GEARMOTOR

1 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|-----------------------|----------------------|---------------------------|------------------|------------------|------------------|-------------------------|---------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 11.5 | 2.8 | 3753 | 10.00 | 15.00 | 150.00 | 10585 | 2110 | NMRV-P063/110 | TP80B4 | - | - |
| 11.7 | 2.1 | 3735 | 10.00 | 15.00 | 150.00 | 7871 | 2110 | NMRV-P050/110 | TP80B4 | - | - |
| 11.7 | 2.1 | 3735 | 10.00 | 15.00 | 150.00 | 7871 | 2110 | NMRV-P050/110 | TP80B4 | - | - |
| 11.5 | 2.1 | 3735 | 10.00 | 15.00 | 150.00 | 7871 | 2110 | NMRV-P050/110 | TP80B4 | - | - |
| 11.7 | 1.6 | 3687 | 10.00 | 15.00 | 150.00 | 5841 | 1669 | NMRV-P050/090 | TP80B4 | - | - |
| 11.7 | 1.6 | 3687 | 10.00 | 15.00 | 150.00 | 5841 | 1669 | NMRV-P050/090 | TP80B4 | - | - |
| 11.5 | 1.6 | 3687 | 10.00 | 15.00 | 150.00 | 5841 | 1669 | NMRV-P050/090 | TP80B4 | - | - |
| 8.8 | 3.5 | 4877 | 10.00 | 20.00 | 200.00 | 17071 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 8.8 | 3.5 | 4877 | 10.00 | 20.00 | 200.00 | 17071 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 8.7 | 3.5 | 4877 | 10.00 | 20.00 | 200.00 | 17071 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 8.8 | 2.9 | 4877 | 10.00 | 20.00 | 200.00 | 14161 | 3035 | NMRV-P063/130 | TP80B4 | - | - |
| 8.8 | 2.9 | 4877 | 10.00 | 20.00 | 200.00 | 14161 | 3035 | NMRV-P063/130 | TP80B4 | - | - |
| 8.7 | 2.9 | 4877 | 10.00 | 20.00 | 200.00 | 14161 | 3035 | NMRV-P063/130 | TP80B4 | - | - |
| 8.8 | 2.1 | 4853 | 10.00 | 20.00 | 200.00 | 10081 | 2320 | NMRV-P050/110 | TP80B4 | - | - |
| 8.8 | 2.1 | 4853 | 10.00 | 20.00 | 200.00 | 10081 | 2320 | NMRV-P050/110 | TP80B4 | - | - |
| 8.7 | 2.1 | 4853 | 10.00 | 20.00 | 200.00 | 10081 | 2320 | NMRV-P050/110 | TP80B4 | - | - |
| 8.8 | 2.1 | 4877 | 10.00 | 20.00 | 200.00 | 10081 | 2320 | NMRV-P063/110 | TP80B4 | - | - |
| 8.8 | 2.1 | 4877 | 10.00 | 20.00 | 200.00 | 10081 | 2320 | NMRV-P063/110 | TP80B4 | - | - |
| 8.7 | 2.1 | 4877 | 10.00 | 20.00 | 200.00 | 10081 | 2320 | NMRV-P063/110 | TP80B4 | - | - |
| 8.8 | 1.1 | 4727 | 10.00 | 20.00 | 200.00 | 5399 | 1838 | NMRV-P050/090 | TP80B4 | - | - |
| 8.8 | 1.1 | 4727 | 10.00 | 20.00 | 200.00 | 5399 | 1838 | NMRV-P050/090 | TP80B4 | - | - |
| 8.7 | 1.1 | 4727 | 10.00 | 20.00 | 200.00 | 5399 | 1838 | NMRV-P050/090 | TP80B4 | - | - |
| 7.0 | 3.1 | 5938 | 10.00 | 25.00 | 250.00 | 18144 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 7.0 | 3.1 | 5938 | 10.00 | 25.00 | 250.00 | 18144 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 6.9 | 3.1 | 5938 | 10.00 | 25.00 | 250.00 | 18144 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 7.0 | 2.3 | 5938 | 10.00 | 25.00 | 250.00 | 13542 | 3035 | NMRV-P063/130 | TP80B4 | - | - |
| 7.0 | 2.3 | 5938 | 10.00 | 25.00 | 250.00 | 13542 | 3035 | NMRV-P063/130 | TP80B4 | - | - |
| 6.9 | 2.3 | 5938 | 10.00 | 25.00 | 250.00 | 13542 | 3035 | NMRV-P063/130 | TP80B4 | - | - |
| 7.0 | 1.8 | 5909 | 10.00 | 25.00 | 250.00 | 10382 | 2320 | NMRV-P050/110 | TP80B4 | - | - |
| 7.0 | 1.8 | 5909 | 10.00 | 25.00 | 250.00 | 10382 | 2320 | NMRV-P050/110 | TP80B4 | - | - |
| 6.9 | 1.8 | 5909 | 10.00 | 25.00 | 250.00 | 10382 | 2320 | NMRV-P050/110 | TP80B4 | - | - |
| 7.0 | 1.7 | 5938 | 10.00 | 25.00 | 250.00 | 10382 | 2320 | NMRV-P063/110 | TP80B4 | - | - |
| 7.0 | 1.7 | 5938 | 10.00 | 25.00 | 250.00 | 10382 | 2320 | NMRV-P063/110 | TP80B4 | - | - |
| 6.9 | 1.7 | 5938 | 10.00 | 25.00 | 250.00 | 10382 | 2320 | NMRV-P063/110 | TP80B4 | - | - |
| 5.8 | 2.7 | 7083 | 15.00 | 20.00 | 300.00 | 19038 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 5.8 | 2.7 | 7083 | 15.00 | 20.00 | 300.00 | 19038 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 5.8 | 2.7 | 7083 | 15.00 | 20.00 | 300.00 | 19038 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 5.8 | 2.4 | 6461 | 10.00 | 30.00 | 300.00 | 15577 | 3035 | NMRV-P063/130 | TP80B4 | - | - |

5.9 DOUBLE WORM GEARMOTOR

1 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 5.8 | 2.4 | 6461 | 10.00 | 30.00 | 300.00 | 15577 | 3035 | NMRV-P063/130 | TP80B4 | - | - |
| 5.8 | 2.4 | 6461 | 10.00 | 30.00 | 300.00 | 15577 | 3035 | NMRV-P063/130 | TP80B4 | - | - |
| 5.8 | 1.8 | 6335 | 10.00 | 30.00 | 300.00 | 11196 | 2320 | NMRV-P050/110 | TP80B4 | - | - |
| 5.8 | 1.8 | 6335 | 10.00 | 30.00 | 300.00 | 11196 | 2320 | NMRV-P050/110 | TP80B4 | - | - |
| 5.8 | 1.8 | 6335 | 10.00 | 30.00 | 300.00 | 11196 | 2320 | NMRV-P050/110 | TP80B4 | - | - |
| 5.8 | 1.8 | 6366 | 10.00 | 30.00 | 300.00 | 11196 | 2320 | NMRV-P063/110 | TP80B4 | - | - |
| 5.8 | 1.8 | 6366 | 10.00 | 30.00 | 300.00 | 11196 | 2320 | NMRV-P063/110 | TP80B4 | - | - |
| 5.8 | 1.8 | 6366 | 10.00 | 30.00 | 300.00 | 11196 | 2320 | NMRV-P063/110 | TP80B4 | - | - |
| 4.4 | 2.8 | 8361 | 10.00 | 40.00 | 400.00 | 23631 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 4.4 | 2.8 | 8361 | 10.00 | 40.00 | 400.00 | 23631 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 4.3 | 2.8 | 8361 | 10.00 | 40.00 | 400.00 | 23631 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 4.4 | 1.8 | 8234 | 10.00 | 40.00 | 400.00 | 14604 | 3035 | NMRV-P063/130 | TP80B4 | - | - |
| 4.4 | 1.8 | 8234 | 10.00 | 40.00 | 400.00 | 14604 | 3035 | NMRV-P063/130 | TP80B4 | - | - |
| 4.3 | 1.8 | 8234 | 10.00 | 40.00 | 400.00 | 14604 | 3035 | NMRV-P063/130 | TP80B4 | - | - |
| 4.4 | 1.3 | 8194 | 10.00 | 40.00 | 400.00 | 10488 | 2320 | NMRV-P050/110 | TP80B4 | - | - |
| 4.4 | 1.3 | 8194 | 10.00 | 40.00 | 400.00 | 10488 | 2320 | NMRV-P050/110 | TP80B4 | - | - |
| 4.3 | 1.3 | 8194 | 10.00 | 40.00 | 400.00 | 10488 | 2320 | NMRV-P050/110 | TP80B4 | - | - |
| 4.4 | 1.3 | 8234 | 10.00 | 40.00 | 400.00 | 10488 | 2320 | NMRV-P063/110 | TP80B4 | - | - |
| 4.4 | 1.3 | 8234 | 10.00 | 40.00 | 400.00 | 10488 | 2320 | NMRV-P063/110 | TP80B4 | - | - |
| 4.3 | 1.3 | 8234 | 10.00 | 40.00 | 400.00 | 10488 | 2320 | NMRV-P063/110 | TP80B4 | - | - |
| 3.5 | 2.1 | 9818 | 10.00 | 50.00 | 500.00 | 20622 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 3.5 | 2.1 | 9818 | 10.00 | 50.00 | 500.00 | 20622 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 3.5 | 2.1 | 9818 | 10.00 | 50.00 | 500.00 | 20622 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 3.5 | 1.4 | 9818 | 10.00 | 50.00 | 500.00 | 13719 | 3035 | NMRV-P063/130 | TP80B4 | - | - |
| 3.5 | 1.4 | 9818 | 10.00 | 50.00 | 500.00 | 13719 | 3035 | NMRV-P063/130 | TP80B4 | - | - |
| 3.5 | 1.4 | 9818 | 10.00 | 50.00 | 500.00 | 13719 | 3035 | NMRV-P063/130 | TP80B4 | - | - |
| 2.9 | 1.9 | 12142 | 15.00 | 40.00 | 600.00 | 23631 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 2.9 | 1.9 | 12142 | 15.00 | 40.00 | 600.00 | 23631 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 2.9 | 1.9 | 12142 | 15.00 | 40.00 | 600.00 | 23631 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 2.9 | 1.3 | 12214 | 20.00 | 30.00 | 600.00 | 15577 | 3035 | NMRV-P063/130 | TP80B4 | - | - |
| 2.9 | 1.3 | 12214 | 20.00 | 30.00 | 600.00 | 15577 | 3035 | NMRV-P063/130 | TP80B4 | - | - |
| 2.9 | 1.3 | 12214 | 20.00 | 30.00 | 600.00 | 15577 | 3035 | NMRV-P063/130 | TP80B4 | - | - |
| 2.3 | 1.4 | 14258 | 15.00 | 50.00 | 750.00 | 20622 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 2.3 | 1.4 | 14258 | 15.00 | 50.00 | 750.00 | 20622 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 2.3 | 1.4 | 14258 | 15.00 | 50.00 | 750.00 | 20622 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 2.3 | 1.1 | 14753 | 25.00 | 30.00 | 750.00 | 15577 | 3035 | NMRV-P063/130 | TP80B4 | - | - |
| 2.3 | 1.1 | 14753 | 25.00 | 30.00 | 750.00 | 15577 | 3035 | NMRV-P063/130 | TP80B4 | - | - |
| 2.3 | 1.1 | 14753 | 25.00 | 30.00 | 750.00 | 15577 | 3035 | NMRV-P063/130 | TP80B4 | - | - |

5.9 DOUBLE WORM GEARMOTOR

1 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 1.9 | 1.0 | 18054 | 30.00 | 30.00 | 900.00 | 18587 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 1.9 | 1.0 | 18054 | 30.00 | 30.00 | 900.00 | 18587 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 1.9 | 1.0 | 18054 | 30.00 | 30.00 | 900.00 | 18587 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 1.5 | 1.1 | 21763 | 30.00 | 40.00 | 1200.00 | 23631 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 1.5 | 1.1 | 21763 | 30.00 | 40.00 | 1200.00 | 23631 | 4047 | NMRV-P063/150 | TP80B4 | - | - |
| 1.4 | 1.1 | 21763 | 30.00 | 40.00 | 1200.00 | 23631 | 4047 | NMRV-P063/150 | TP80B4 | - | - |

1.5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 17.5 | 2.4 | 3855 | 10.00 | 10.00 | 100.00 | 9201 | 2410 | NMRV-P063/130 | TP90S4 | - | - |
| 17.5 | 2.4 | 3855 | 10.00 | 10.00 | 100.00 | 9201 | 2410 | NMRV-P063/130 | TP90S4 | - | - |
| 17.2 | 2.4 | 3855 | 10.00 | 10.00 | 100.00 | 9201 | 2410 | NMRV-P063/130 | TP90S4 | - | - |
| 17.5 | 2.4 | 3809 | 10.00 | 10.00 | 100.00 | 9090 | 1843 | NMRV-P063/110 | TP90S4 | - | - |
| 17.5 | 2.4 | 3809 | 10.00 | 10.00 | 100.00 | 9090 | 1843 | NMRV-P063/110 | TP90S4 | - | - |
| 17.2 | 2.4 | 3809 | 10.00 | 10.00 | 100.00 | 9090 | 1843 | NMRV-P063/110 | TP90S4 | - | - |
| 11.7 | 3.0 | 5488 | 7.50 | 20.00 | 150.00 | 16575 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 11.7 | 3.0 | 5488 | 7.50 | 20.00 | 150.00 | 16575 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 11.5 | 3.0 | 5488 | 7.50 | 20.00 | 150.00 | 16575 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 11.7 | 2.4 | 5435 | 10.00 | 15.00 | 150.00 | 12969 | 2759 | NMRV-P063/130 | TP90S4 | - | - |
| 11.7 | 2.4 | 5435 | 10.00 | 15.00 | 150.00 | 12969 | 2759 | NMRV-P063/130 | TP90S4 | - | - |
| 11.5 | 2.4 | 5435 | 10.00 | 15.00 | 150.00 | 12969 | 2759 | NMRV-P063/130 | TP90S4 | - | - |
| 11.7 | 1.9 | 5504 | 10.00 | 15.00 | 150.00 | 10585 | 2110 | NMRV-P063/110 | TP90S4 | - | - |
| 11.7 | 1.9 | 5504 | 10.00 | 15.00 | 150.00 | 10585 | 2110 | NMRV-P063/110 | TP90S4 | - | - |
| 11.5 | 1.9 | 5504 | 10.00 | 15.00 | 150.00 | 10585 | 2110 | NMRV-P063/110 | TP90S4 | - | - |
| 8.8 | 2.4 | 7153 | 10.00 | 20.00 | 200.00 | 17071 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 8.8 | 2.4 | 7153 | 10.00 | 20.00 | 200.00 | 17071 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 8.6 | 2.4 | 7153 | 10.00 | 20.00 | 200.00 | 17071 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 8.8 | 2.0 | 7153 | 10.00 | 20.00 | 200.00 | 14161 | 3035 | NMRV-P063/130 | TP90S4 | - | - |
| 8.8 | 2.0 | 7153 | 10.00 | 20.00 | 200.00 | 14161 | 3035 | NMRV-P063/130 | TP90S4 | - | - |
| 8.6 | 2.0 | 7153 | 10.00 | 20.00 | 200.00 | 14161 | 3035 | NMRV-P063/130 | TP90S4 | - | - |
| 8.8 | 1.4 | 7153 | 10.00 | 20.00 | 200.00 | 10081 | 2320 | NMRV-P063/110 | TP90S4 | - | - |
| 8.8 | 1.4 | 7153 | 10.00 | 20.00 | 200.00 | 10081 | 2320 | NMRV-P063/110 | TP90S4 | - | - |
| 8.6 | 1.4 | 7153 | 10.00 | 20.00 | 200.00 | 10081 | 2320 | NMRV-P063/110 | TP90S4 | - | - |
| 7.0 | 2.1 | 8709 | 10.00 | 25.00 | 250.00 | 18144 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 7.0 | 2.1 | 8709 | 10.00 | 25.00 | 250.00 | 18144 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 6.9 | 2.1 | 8709 | 10.00 | 25.00 | 250.00 | 18144 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 7.0 | 1.6 | 8709 | 10.00 | 25.00 | 250.00 | 13542 | 3035 | NMRV-P063/130 | TP90S4 | - | - |

5.9 DOUBLE WORM GEARMOTOR

1.5 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 7.0 | 1.6 | 8709 | 10.00 | 25.00 | 250.00 | 13542 | 3035 | NMRV-P063/130 | TP90S4 | - | - |
| 6.9 | 1.6 | 8709 | 10.00 | 25.00 | 250.00 | 13542 | 3035 | NMRV-P063/130 | TP90S4 | - | - |
| 7.0 | 1.2 | 8709 | 10.00 | 25.00 | 250.00 | 10382 | 2320 | NMRV-P063/110 | TP90S4 | - | - |
| 7.0 | 1.2 | 8709 | 10.00 | 25.00 | 250.00 | 10382 | 2320 | NMRV-P063/110 | TP90S4 | - | - |
| 6.9 | 1.2 | 8709 | 10.00 | 25.00 | 250.00 | 10382 | 2320 | NMRV-P063/110 | TP90S4 | - | - |
| 5.8 | 1.8 | 10388 | 15.00 | 20.00 | 300.00 | 19038 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 5.8 | 1.8 | 10388 | 15.00 | 20.00 | 300.00 | 19038 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 5.7 | 1.8 | 10388 | 15.00 | 20.00 | 300.00 | 19038 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 5.8 | 1.6 | 9476 | 10.00 | 30.00 | 300.00 | 15577 | 3035 | NMRV-P063/130 | TP90S4 | - | - |
| 5.8 | 1.6 | 9476 | 10.00 | 30.00 | 300.00 | 15577 | 3035 | NMRV-P063/130 | TP90S4 | - | - |
| 5.7 | 1.6 | 9476 | 10.00 | 30.00 | 300.00 | 15577 | 3035 | NMRV-P063/130 | TP90S4 | - | - |
| 5.8 | 1.2 | 9337 | 10.00 | 30.00 | 300.00 | 11196 | 2320 | NMRV-P063/110 | TP90S4 | - | - |
| 5.8 | 1.2 | 9337 | 10.00 | 30.00 | 300.00 | 11196 | 2320 | NMRV-P063/110 | TP90S4 | - | - |
| 5.7 | 1.2 | 9337 | 10.00 | 30.00 | 300.00 | 11196 | 2320 | NMRV-P063/110 | TP90S4 | - | - |
| 4.4 | 1.9 | 12263 | 10.00 | 40.00 | 400.00 | 23631 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 4.4 | 1.9 | 12263 | 10.00 | 40.00 | 400.00 | 23631 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 4.3 | 1.9 | 12263 | 10.00 | 40.00 | 400.00 | 23631 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 4.4 | 1.2 | 12077 | 10.00 | 40.00 | 400.00 | 14604 | 3035 | NMRV-P063/130 | TP90S4 | - | - |
| 4.4 | 1.2 | 12077 | 10.00 | 40.00 | 400.00 | 14604 | 3035 | NMRV-P063/130 | TP90S4 | - | - |
| 4.3 | 1.2 | 12077 | 10.00 | 40.00 | 400.00 | 14604 | 3035 | NMRV-P063/130 | TP90S4 | - | - |
| 3.5 | 1.4 | 14400 | 10.00 | 50.00 | 500.00 | 20622 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 3.5 | 1.4 | 14400 | 10.00 | 50.00 | 500.00 | 20622 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 3.4 | 1.4 | 14400 | 10.00 | 50.00 | 500.00 | 20622 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 2.9 | 1.3 | 17808 | 15.00 | 40.00 | 600.00 | 23631 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 2.9 | 1.3 | 17808 | 15.00 | 40.00 | 600.00 | 23631 | 4047 | NMRV-P063/150 | TP90S4 | - | - |
| 2.9 | 1.3 | 17808 | 15.00 | 40.00 | 600.00 | 23631 | 4047 | NMRV-P063/150 | TP90S4 | - | - |

2 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 17.4 | 1.8 | 5257 | 10.00 | 10.00 | 100.00 | 9201 | 2410 | NMRV-P063/130 | TP90L4 | - | - |
| 17.5 | 1.8 | 5257 | 10.00 | 10.00 | 100.00 | 9201 | 2410 | NMRV-P063/130 | TP90L4 | - | - |
| 17.2 | 1.8 | 5257 | 10.00 | 10.00 | 100.00 | 9201 | 2410 | NMRV-P063/130 | TP90L4 | - | - |
| 17.4 | 1.8 | 5194 | 10.00 | 10.00 | 100.00 | 9090 | 1843 | NMRV-P063/110 | TP90L4 | - | - |
| 17.5 | 1.8 | 5194 | 10.00 | 10.00 | 100.00 | 9090 | 1843 | NMRV-P063/110 | TP90L4 | - | - |
| 17.2 | 1.8 | 5194 | 10.00 | 10.00 | 100.00 | 9090 | 1843 | NMRV-P063/110 | TP90L4 | - | - |
| 11.6 | 2.2 | 7483 | 7.50 | 20.00 | 150.00 | 16575 | 4047 | NMRV-P063/150 | TP90L4 | - | - |
| 11.7 | 2.2 | 7483 | 7.50 | 20.00 | 150.00 | 16575 | 4047 | NMRV-P063/150 | TP90L4 | - | - |

5.9 DOUBLE WORM GEARMOTOR

2 HP

| Output speed [rpm] | Service factor sf | Output torque [in-lbs] | Ratio Stage 1 | Ratio Stage 2 | Exact ratio i | Max. torque [in-lbs] | OHL Output shaft [lbs] | Gearmotor | | Gear Reducer | |
|--------------------|-------------------|------------------------|---------------|---------------|---------------|----------------------|------------------------|---------------|--------|--------------|--------------|
| | | | | | | | | Reducer | Motor | Reducer | NEMA C-input |
| 11.5 | 2.2 | 7483 | 7.50 | 20.00 | 150.00 | 16575 | 4047 | NMRV-P063/150 | TP90L4 | - | - |
| 11.6 | 1.8 | 7411 | 10.00 | 15.00 | 150.00 | 12969 | 2759 | NMRV-P063/130 | TP90L4 | - | - |
| 11.7 | 1.8 | 7411 | 10.00 | 15.00 | 150.00 | 12969 | 2759 | NMRV-P063/130 | TP90L4 | - | - |
| 11.5 | 1.8 | 7411 | 10.00 | 15.00 | 150.00 | 12969 | 2759 | NMRV-P063/130 | TP90L4 | - | - |
| 11.6 | 1.4 | 7506 | 10.00 | 15.00 | 150.00 | 10585 | 2110 | NMRV-P063/110 | TP90L4 | - | - |
| 11.7 | 1.4 | 7506 | 10.00 | 15.00 | 150.00 | 10585 | 2110 | NMRV-P063/110 | TP90L4 | - | - |
| 11.5 | 1.4 | 7506 | 10.00 | 15.00 | 150.00 | 10585 | 2110 | NMRV-P063/110 | TP90L4 | - | - |
| 8.7 | 1.8 | 9755 | 10.00 | 20.00 | 200.00 | 17071 | 4047 | NMRV-P063/150 | TP90L4 | - | - |
| 8.8 | 1.8 | 9755 | 10.00 | 20.00 | 200.00 | 17071 | 4047 | NMRV-P063/150 | TP90L4 | - | - |
| 8.6 | 1.8 | 9755 | 10.00 | 20.00 | 200.00 | 17071 | 4047 | NMRV-P063/150 | TP90L4 | - | - |
| 8.7 | 1.5 | 9755 | 10.00 | 20.00 | 200.00 | 14161 | 3035 | NMRV-P063/130 | TP90L4 | - | - |
| 8.8 | 1.5 | 9755 | 10.00 | 20.00 | 200.00 | 14161 | 3035 | NMRV-P063/130 | TP90L4 | - | - |
| 8.6 | 1.5 | 9755 | 10.00 | 20.00 | 200.00 | 14161 | 3035 | NMRV-P063/130 | TP90L4 | - | - |
| 8.7 | 1.0 | 9755 | 10.00 | 20.00 | 200.00 | 10081 | 2320 | NMRV-P063/110 | TP90L4 | - | - |
| 8.8 | 1.0 | 9755 | 10.00 | 20.00 | 200.00 | 10081 | 2320 | NMRV-P063/110 | TP90L4 | - | - |
| 8.6 | 1.0 | 9755 | 10.00 | 20.00 | 200.00 | 10081 | 2320 | NMRV-P063/110 | TP90L4 | - | - |
| 7.0 | 1.5 | 11877 | 10.00 | 25.00 | 250.00 | 18144 | 4047 | NMRV-P063/150 | TP90L4 | - | - |
| 7.0 | 1.5 | 11877 | 10.00 | 25.00 | 250.00 | 18144 | 4047 | NMRV-P063/150 | TP90L4 | - | - |
| 6.9 | 1.5 | 11877 | 10.00 | 25.00 | 250.00 | 18144 | 4047 | NMRV-P063/150 | TP90L4 | - | - |
| 7.0 | 1.1 | 11877 | 10.00 | 25.00 | 250.00 | 13542 | 3035 | NMRV-P063/130 | TP90L4 | - | - |
| 7.0 | 1.1 | 11877 | 10.00 | 25.00 | 250.00 | 13542 | 3035 | NMRV-P063/130 | TP90L4 | - | - |
| 6.9 | 1.1 | 11877 | 10.00 | 25.00 | 250.00 | 13542 | 3035 | NMRV-P063/130 | TP90L4 | - | - |
| 5.8 | 1.3 | 14166 | 15.00 | 20.00 | 300.00 | 19038 | 4047 | NMRV-P063/150 | TP90L4 | - | - |
| 5.8 | 1.3 | 14166 | 15.00 | 20.00 | 300.00 | 19038 | 4047 | NMRV-P063/150 | TP90L4 | - | - |
| 5.7 | 1.3 | 14166 | 15.00 | 20.00 | 300.00 | 19038 | 4047 | NMRV-P063/150 | TP90L4 | - | - |
| 5.8 | 1.2 | 12922 | 10.00 | 30.00 | 300.00 | 15577 | 3035 | NMRV-P063/130 | TP90L4 | - | - |
| 5.8 | 1.2 | 12922 | 10.00 | 30.00 | 300.00 | 15577 | 3035 | NMRV-P063/130 | TP90L4 | - | - |
| 5.7 | 1.2 | 12922 | 10.00 | 30.00 | 300.00 | 15577 | 3035 | NMRV-P063/130 | TP90L4 | - | - |
| 4.3 | 1.4 | 16722 | 10.00 | 40.00 | 400.00 | 23631 | 4047 | NMRV-P063/150 | TP90L4 | - | - |
| 4.4 | 1.4 | 16722 | 10.00 | 40.00 | 400.00 | 23631 | 4047 | NMRV-P063/150 | TP90L4 | - | - |
| 4.3 | 1.4 | 16722 | 10.00 | 40.00 | 400.00 | 23631 | 4047 | NMRV-P063/150 | TP90L4 | - | - |
| 3.5 | 1.1 | 19636 | 10.00 | 50.00 | 500.00 | 20622 | 4047 | NMRV-P063/150 | TP90L4 | - | - |
| 3.5 | 1.1 | 19636 | 10.00 | 50.00 | 500.00 | 20622 | 4047 | NMRV-P063/150 | TP90L4 | - | - |
| 3.4 | 1.1 | 19636 | 10.00 | 50.00 | 500.00 | 20622 | 4047 | NMRV-P063/150 | TP90L4 | - | - |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 283 | 8.8 | 100.00 | 0.06 | 323 | - | NMRV025/030 | - |
| 248 | 5.8 | 150.00 | 0.043 | 407 | - | NMRV025/030 | - |
| 248 | 4.4 | 200.00 | 0.034 | 407 | - | NMRV025/030 | - |
| 301 | 3.5 | 250.00 | 0.038 | 411 | - | NMRV025/030 | - |
| 274 | 2.9 | 300.00 | 0.03 | 411 | - | NMRV025/030 | - |
| 248 | 2.2 | 400.00 | 0.019 | 407 | - | NMRV025/030 | - |
| 301 | 1.8 | 500.00 | 0.021 | 411 | - | NMRV025/030 | - |
| 274 | 1.5 | 600.00 | 0.016 | 411 | - | NMRV025/030 | - |
| 301 | 1.2 | 750.00 | 0.016 | 411 | - | NMRV025/030 | - |
| 204 | 1.0 | 900.00 | 0.01 | 411 | - | NMRV025/030 | - |
| 248 | 0.7 | 1200.00 | 0.009 | 411 | - | NMRV025/030 | - |
| 230 | 0.6 | 1500.00 | 0.008 | 411 | - | NMRV025/030 | - |
| 274 | 0.5 | 1800.00 | 0.008 | 411 | - | NMRV025/030 | - |
| 248 | 0.4 | 2400.00 | 0.006 | 411 | - | NMRV025/030 | - |
| 230 | 0.3 | 3000.00 | 0.005 | 411 | - | NMRV025/030 | - |
| 177 | 0.2 | 4000.00 | 0.003 | 411 | - | NMRV025/030 | - |
| 628 | 8.8 | 100.00 | 0.14 | 622 | - | NMRV025/040 | - |
| 575 | 5.8 | 150.00 | 0.09 | 784 | - | NMRV025/040 | - |
| 575 | 4.4 | 200.00 | 0.07 | 784 | - | NMRV025/040 | - |
| 540 | 3.5 | 250.00 | 0.06 | 785 | - | NMRV025/040 | - |
| 646 | 2.9 | 300.00 | 0.06 | 785 | - | NMRV025/040 | - |
| 575 | 2.2 | 400.00 | 0.04 | 784 | - | NMRV025/040 | - |
| 540 | 1.8 | 500.00 | 0.032 | 785 | - | NMRV025/040 | - |
| 646 | 1.5 | 600.00 | 0.035 | 785 | - | NMRV025/040 | - |
| 540 | 1.2 | 750.00 | 0.024 | 785 | - | NMRV025/040 | - |
| 646 | 1.0 | 900.00 | 0.026 | 785 | - | NMRV025/040 | - |
| 575 | 0.7 | 1200.00 | 0.019 | 785 | - | NMRV025/040 | - |
| 531 | 0.6 | 1500.00 | 0.015 | 785 | - | NMRV025/040 | - |
| 646 | 0.5 | 1800.00 | 0.016 | 785 | - | NMRV025/040 | - |
| 575 | 0.4 | 2400.00 | 0.012 | 785 | - | NMRV025/040 | - |
| 531 | 0.3 | 3000.00 | 0.01 | 785 | - | NMRV025/040 | - |
| 425 | 0.2 | 4000.00 | 0.007 | 785 | - | NMRV025/040 | - |
| 381 | 0.2 | 5000.00 | 0.005 | 785 | - | NMRV025/040 | - |
| 628 | 8.8 | 100.00 | 0.14 | 622 | 47 | NMRV030/040 | NRV030/040 |
| 637 | 5.8 | 150.00 | 0.1 | 713 | 47 | NMRV030/040 | NRV030/040 |
| 575 | 4.4 | 200.00 | 0.07 | 784 | 47 | NMRV030/040 | NRV030/040 |
| 540 | 3.5 | 250.00 | 0.06 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 646 | 2.9 | 300.00 | 0.06 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 575 | 2.2 | 400.00 | 0.047 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 540 | 1.8 | 500.00 | 0.032 | 785 | 47 | NMRV030/040 | NRV030/040 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 646 | 1.5 | 600.00 | 0.036 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 646 | 1.2 | 750.00 | 0.031 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 646 | 1.0 | 900.00 | 0.027 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 646 | 0.7 | 1200.00 | 0.023 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 646 | 0.6 | 1500.00 | 0.019 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 646 | 0.5 | 1800.00 | 0.018 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 575 | 0.4 | 2400.00 | 0.013 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 531 | 0.3 | 3000.00 | 0.01 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 425 | 0.2 | 4000.00 | 0.007 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 381 | 0.2 | 5000.00 | 0.006 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 1213 | 8.8 | 100.00 | 0.26 | 854 | 47 | NMRV030/050 | NRV030/050 |
| 1195 | 5.8 | 150.00 | 0.19 | 978 | 47 | NMRV030/050 | NRV030/050 |
| 1062 | 4.4 | 200.00 | 0.13 | 1076 | 47 | NMRV030/050 | NRV030/050 |
| 974 | 3.5 | 250.00 | 0.1 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1283 | 2.9 | 300.00 | 0.12 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1097 | 2.2 | 400.00 | 0.09 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1062 | 1.8 | 500.00 | 0.07 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1283 | 1.5 | 600.00 | 0.07 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1283 | 1.2 | 750.00 | 0.06 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1283 | 1.0 | 900.00 | 0.05 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1283 | 0.7 | 1200.00 | 0.044 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1283 | 0.6 | 1500.00 | 0.038 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1283 | 0.5 | 1800.00 | 0.034 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1097 | 0.4 | 2400.00 | 0.024 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1062 | 0.3 | 3000.00 | 0.02 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 726 | 0.2 | 4000.00 | 0.012 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 699 | 0.2 | 5000.00 | 0.01 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1470 | 8.8 | 100.00 | 0.32 | 1117 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2065 | 5.8 | 150.00 | 0.32 | 1278 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2239 | 4.4 | 200.00 | 0.27 | 1407 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2045 | 3.5 | 250.00 | 0.21 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2259 | 2.9 | 300.00 | 0.22 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2259 | 2.2 | 400.00 | 0.17 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2089 | 1.8 | 500.00 | 0.14 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2398 | 1.5 | 600.00 | 0.13 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2398 | 1.2 | 750.00 | 0.11 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2398 | 1.0 | 900.00 | 0.1 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2398 | 0.7 | 1200.00 | 0.08 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2398 | 0.6 | 1500.00 | 0.07 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2398 | 0.5 | 1800.00 | 0.06 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 2259 | 0.4 | 2400.00 | 0.049 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2089 | 0.3 | 3000.00 | 0.039 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2089 | 0.2 | 4000.00 | 0.033 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 1328 | 0.2 | 5000.00 | 0.019 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 1213 | 8.8 | 100.00 | 0.26 | 854 | 79 | NMRV040/050 | NRV040/050 |
| 1195 | 5.8 | 150.00 | 0.18 | 978 | 79 | NMRV040/050 | NRV040/050 |
| 1062 | 4.4 | 200.00 | 0.13 | 1076 | 79 | NMRV040/050 | NRV040/050 |
| 974 | 3.5 | 250.00 | 0.1 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 2.9 | 300.00 | 0.12 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1097 | 2.2 | 400.00 | 0.08 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1213 | 1.8 | 500.00 | 0.07 | 854 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 1.5 | 600.00 | 0.07 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 1.2 | 750.00 | 0.05 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1195 | 1.0 | 900.00 | 0.046 | 978 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 0.7 | 1200.00 | 0.039 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 0.6 | 1500.00 | 0.034 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 0.5 | 1800.00 | 0.03 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1097 | 0.4 | 2400.00 | 0.021 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1062 | 0.3 | 3000.00 | 0.018 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1062 | 0.2 | 4000.00 | 0.015 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1062 | 0.2 | 5000.00 | 0.013 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 2277 | 8.8 | 100.00 | 0.48 | 1117 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2300 | 5.8 | 150.00 | 0.35 | 1278 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2239 | 4.4 | 200.00 | 0.27 | 1407 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2045 | 3.5 | 250.00 | 0.2 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 2.9 | 300.00 | 0.22 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2259 | 2.2 | 400.00 | 0.17 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2045 | 1.8 | 500.00 | 0.11 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 1.5 | 600.00 | 0.12 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 1.2 | 750.00 | 0.1 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 1.0 | 900.00 | 0.09 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 0.7 | 1200.00 | 0.07 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 0.6 | 1500.00 | 0.06 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 0.5 | 1800.00 | 0.06 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2259 | 0.4 | 2400.00 | 0.042 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2089 | 0.3 | 3000.00 | 0.034 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2089 | 0.2 | 4000.00 | 0.028 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2089 | 0.2 | 5000.00 | 0.025 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 3401 | 8.8 | 100.00 | 0.71 | 1318 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3761 | 5.8 | 150.00 | 0.55 | 1509 | 79 | NMRV-P040/075 | NRV-P040/075 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 3715 | 4.4 | 200.00 | 0.43 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3359 | 3.5 | 250.00 | 0.33 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 2.9 | 300.00 | 0.34 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3664 | 2.2 | 400.00 | 0.26 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3257 | 1.8 | 500.00 | 0.2 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 1.5 | 600.00 | 0.19 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 1.2 | 750.00 | 0.16 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 1.0 | 900.00 | 0.14 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 0.7 | 1200.00 | 0.11 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 0.6 | 1500.00 | 0.1 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 0.5 | 1800.00 | 0.09 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3664 | 0.4 | 2400.00 | 0.07 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3257 | 0.3 | 3000.00 | 0.05 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3257 | 0.2 | 4000.00 | 0.043 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3257 | 0.2 | 5000.00 | 0.038 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3486 | 8.8 | 100.00 | 0.71 | 1458 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 4974 | 5.8 | 150.00 | 0.71 | 1669 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 5399 | 4.4 | 200.00 | 0.6 | 1838 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 5045 | 3.5 | 250.00 | 0.47 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 2.9 | 300.00 | 0.52 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 5399 | 2.2 | 400.00 | 0.36 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 4956 | 1.8 | 500.00 | 0.29 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 1.5 | 600.00 | 0.28 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 1.2 | 750.00 | 0.23 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 1.0 | 900.00 | 0.21 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 0.7 | 1200.00 | 0.17 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 0.6 | 1500.00 | 0.15 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 0.5 | 1800.00 | 0.13 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 5399 | 0.4 | 2400.00 | 0.09 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 4956 | 0.3 | 3000.00 | 0.07 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 4956 | 0.2 | 4000.00 | 0.06 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 4956 | 0.2 | 5000.00 | 0.05 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 5222 | 8.8 | 100.00 | 1.04 | 1458 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5841 | 5.8 | 150.00 | 0.82 | 1669 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5399 | 4.4 | 200.00 | 0.59 | 1838 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5045 | 3.5 | 250.00 | 0.46 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 2.9 | 300.00 | 0.5 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5399 | 2.2 | 400.00 | 0.36 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5045 | 1.8 | 500.00 | 0.25 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 1.5 | 600.00 | 0.28 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 6196 | 1.2 | 750.00 | 0.23 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 1.0 | 900.00 | 0.21 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 0.7 | 1200.00 | 0.17 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 0.6 | 1500.00 | 0.14 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 0.5 | 1800.00 | 0.13 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5399 | 0.4 | 2400.00 | 0.09 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 4956 | 0.3 | 3000.00 | 0.07 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 4956 | 0.2 | 4000.00 | 0.06 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 4956 | 0.2 | 5000.00 | 0.05 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6677 | 8.8 | 100.00 | 1.33 | 1843 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 9649 | 5.8 | 150.00 | 1.33 | 2110 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 10081 | 4.4 | 200.00 | 1.07 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 10382 | 3.5 | 250.00 | 0.9 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 2.9 | 300.00 | 0.91 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 10488 | 2.2 | 400.00 | 0.66 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 10382 | 1.8 | 500.00 | 0.5 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 1.5 | 600.00 | 0.5 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 1.2 | 750.00 | 0.42 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 1.0 | 900.00 | 0.37 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 0.7 | 1200.00 | 0.3 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 0.6 | 1500.00 | 0.26 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 0.5 | 1800.00 | 0.23 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 10488 | 0.4 | 2400.00 | 0.17 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 9736 | 0.3 | 3000.00 | 0.13 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 9736 | 0.2 | 4000.00 | 0.11 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 9736 | 0.2 | 5000.00 | 0.1 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 9975 | 8.8 | 100.00 | 1.99 | 1843 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 10585 | 5.8 | 150.00 | 1.46 | 2110 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 10081 | 4.4 | 200.00 | 1.07 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 10382 | 3.5 | 250.00 | 0.9 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 2.9 | 300.00 | 0.91 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 10488 | 2.2 | 400.00 | 0.66 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 10382 | 1.8 | 500.00 | 0.49 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 1.5 | 600.00 | 0.5 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 1.2 | 750.00 | 0.41 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 1.0 | 900.00 | 0.36 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 0.7 | 1200.00 | 0.29 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 0.6 | 1500.00 | 0.25 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 0.5 | 1800.00 | 0.22 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 10488 | 0.4 | 2400.00 | 0.16 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 9736 | 0.3 | 3000.00 | 0.12 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 9736 | 0.2 | 4000.00 | 0.1 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 9736 | 0.2 | 5000.00 | 0.09 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11242 | 8.8 | 100.00 | 2.21 | 2410 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15046 | 5.8 | 150.00 | 2.1 | 2759 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 14161 | 4.4 | 200.00 | 1.5 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 13542 | 3.5 | 250.00 | 1.18 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 2.9 | 300.00 | 1.25 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 14604 | 2.2 | 400.00 | 0.92 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 13719 | 1.8 | 500.00 | 0.72 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 1.5 | 600.00 | 0.68 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 1.2 | 750.00 | 0.56 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 1.0 | 900.00 | 0.5 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 0.7 | 1200.00 | 0.4 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 0.6 | 1500.00 | 0.34 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 0.5 | 1800.00 | 0.3 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 14604 | 0.4 | 2400.00 | 0.22 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 13719 | 0.3 | 3000.00 | 0.17 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 13719 | 0.2 | 4000.00 | 0.14 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 13719 | 0.2 | 5000.00 | 0.13 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 20581 | 5.8 | 150.00 | 2.81 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20711 | 4.4 | 200.00 | 2.2 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 18144 | 3.5 | 250.00 | 1.58 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20711 | 2.9 | 300.00 | 1.52 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 23631 | 2.2 | 400.00 | 1.46 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 1.8 | 500.00 | 1.09 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 23631 | 1.5 | 600.00 | 1.01 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 1.2 | 750.00 | 0.75 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 18587 | 1.0 | 900.00 | 0.55 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 23631 | 0.7 | 1200.00 | 0.58 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 0.6 | 1500.00 | 0.43 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 18587 | 0.5 | 1800.00 | 0.33 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 23631 | 0.4 | 2400.00 | 0.35 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 0.3 | 3000.00 | 0.26 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 0.2 | 4000.00 | 0.22 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 0.2 | 5000.00 | 0.19 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 283 | 11.4 | 100.00 | 0.08 | 323 | - | NMRV025/030 | - |
| 248 | 7.6 | 150.00 | 0.06 | 407 | - | NMRV025/030 | - |
| 248 | 5.7 | 200.00 | 0.043 | 407 | - | NMRV025/030 | - |
| 301 | 4.6 | 250.00 | 0.048 | 411 | - | NMRV025/030 | - |
| 274 | 3.8 | 300.00 | 0.038 | 411 | - | NMRV025/030 | - |
| 248 | 2.9 | 400.00 | 0.024 | 407 | - | NMRV025/030 | - |
| 301 | 2.3 | 500.00 | 0.027 | 411 | - | NMRV025/030 | - |
| 274 | 1.9 | 600.00 | 0.021 | 411 | - | NMRV025/030 | - |
| 301 | 1.5 | 750.00 | 0.02 | 411 | - | NMRV025/030 | - |
| 204 | 1.3 | 900.00 | 0.013 | 411 | - | NMRV025/030 | - |
| 248 | 1.0 | 1200.00 | 0.012 | 411 | - | NMRV025/030 | - |
| 230 | 0.8 | 1500.00 | 0.01 | 411 | - | NMRV025/030 | - |
| 274 | 0.6 | 1800.00 | 0.01 | 411 | - | NMRV025/030 | - |
| 248 | 0.5 | 2400.00 | 0.007 | 411 | - | NMRV025/030 | - |
| 230 | 0.4 | 3000.00 | 0.006 | 411 | - | NMRV025/030 | - |
| 177 | 0.3 | 4000.00 | 0.004 | 411 | - | NMRV025/030 | - |
| 628 | 11.4 | 100.00 | 0.18 | 622 | - | NMRV025/040 | - |
| 575 | 7.6 | 150.00 | 0.12 | 784 | - | NMRV025/040 | - |
| 575 | 5.7 | 200.00 | 0.09 | 784 | - | NMRV025/040 | - |
| 540 | 4.6 | 250.00 | 0.07 | 785 | - | NMRV025/040 | - |
| 646 | 3.8 | 300.00 | 0.08 | 785 | - | NMRV025/040 | - |
| 575 | 2.9 | 400.00 | 0.05 | 784 | - | NMRV025/040 | - |
| 540 | 2.3 | 500.00 | 0.041 | 785 | - | NMRV025/040 | - |
| 646 | 1.9 | 600.00 | 0.045 | 785 | - | NMRV025/040 | - |
| 540 | 1.5 | 750.00 | 0.03 | 785 | - | NMRV025/040 | - |
| 646 | 1.3 | 900.00 | 0.033 | 785 | - | NMRV025/040 | - |
| 575 | 1.0 | 1200.00 | 0.025 | 785 | - | NMRV025/040 | - |
| 531 | 0.8 | 1500.00 | 0.02 | 785 | - | NMRV025/040 | - |
| 646 | 0.6 | 1800.00 | 0.021 | 785 | - | NMRV025/040 | - |
| 575 | 0.5 | 2400.00 | 0.015 | 785 | - | NMRV025/040 | - |
| 531 | 0.4 | 3000.00 | 0.012 | 785 | - | NMRV025/040 | - |
| 425 | 0.3 | 4000.00 | 0.008 | 785 | - | NMRV025/040 | - |
| 381 | 0.2 | 5000.00 | 0.007 | 785 | - | NMRV025/040 | - |
| 628 | 11.4 | 100.00 | 0.18 | 622 | 44 | NMRV030/040 | NRV030/040 |
| 637 | 7.6 | 150.00 | 0.13 | 713 | 44 | NMRV030/040 | NRV030/040 |
| 575 | 5.7 | 200.00 | 0.09 | 784 | 44 | NMRV030/040 | NRV030/040 |
| 540 | 4.6 | 250.00 | 0.07 | 785 | 44 | NMRV030/040 | NRV030/040 |
| 646 | 3.8 | 300.00 | 0.08 | 785 | 44 | NMRV030/040 | NRV030/040 |
| 575 | 2.9 | 400.00 | 0.06 | 785 | 44 | NMRV030/040 | NRV030/040 |
| 540 | 2.3 | 500.00 | 0.041 | 785 | 47 | NMRV030/040 | NRV030/040 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 646 | 1.9 | 600.00 | 0.045 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 646 | 1.5 | 750.00 | 0.039 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 646 | 1.3 | 900.00 | 0.034 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 646 | 1.0 | 1200.00 | 0.028 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 646 | 0.8 | 1500.00 | 0.024 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 646 | 0.6 | 1800.00 | 0.022 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 575 | 0.5 | 2400.00 | 0.016 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 531 | 0.4 | 3000.00 | 0.013 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 425 | 0.3 | 4000.00 | 0.009 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 381 | 0.2 | 5000.00 | 0.007 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 1213 | 11.4 | 100.00 | 0.34 | 854 | 44 | NMRV030/050 | NRV030/050 |
| 1195 | 7.6 | 150.00 | 0.24 | 978 | 44 | NMRV030/050 | NRV030/050 |
| 1062 | 5.7 | 200.00 | 0.17 | 1076 | 44 | NMRV030/050 | NRV030/050 |
| 974 | 4.6 | 250.00 | 0.13 | 1088 | 44 | NMRV030/050 | NRV030/050 |
| 1283 | 3.8 | 300.00 | 0.16 | 1088 | 44 | NMRV030/050 | NRV030/050 |
| 1097 | 2.9 | 400.00 | 0.11 | 1088 | 44 | NMRV030/050 | NRV030/050 |
| 1062 | 2.3 | 500.00 | 0.09 | 1088 | 44 | NMRV030/050 | NRV030/050 |
| 1283 | 1.9 | 600.00 | 0.09 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1283 | 1.5 | 750.00 | 0.08 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1283 | 1.3 | 900.00 | 0.07 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1283 | 1.0 | 1200.00 | 0.06 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1283 | 0.8 | 1500.00 | 0.048 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1283 | 0.6 | 1800.00 | 0.043 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1097 | 0.5 | 2400.00 | 0.031 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1062 | 0.4 | 3000.00 | 0.026 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 726 | 0.3 | 4000.00 | 0.015 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 699 | 0.2 | 5000.00 | 0.013 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1399 | 11.4 | 100.00 | 0.39 | 1117 | 44 | NMRV-P030/063 | NRV-P030/063 |
| 1965 | 7.6 | 150.00 | 0.39 | 1278 | 44 | NMRV-P030/063 | NRV-P030/063 |
| 2239 | 5.7 | 200.00 | 0.35 | 1407 | 44 | NMRV-P030/063 | NRV-P030/063 |
| 2045 | 4.6 | 250.00 | 0.27 | 1410 | 44 | NMRV-P030/063 | NRV-P030/063 |
| 2259 | 3.8 | 300.00 | 0.29 | 1410 | 39 | NMRV-P030/063 | NRV-P030/063 |
| 2259 | 2.9 | 400.00 | 0.22 | 1410 | 44 | NMRV-P030/063 | NRV-P030/063 |
| 2089 | 2.3 | 500.00 | 0.18 | 1410 | 44 | NMRV-P030/063 | NRV-P030/063 |
| 2398 | 1.9 | 600.00 | 0.16 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2398 | 1.5 | 750.00 | 0.14 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2398 | 1.3 | 900.00 | 0.12 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2398 | 1.0 | 1200.00 | 0.1 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2398 | 0.8 | 1500.00 | 0.09 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2398 | 0.6 | 1800.00 | 0.08 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|-------------------------|--------------------|-----------------|--------------------|--------------------|-------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 2259 | 0.5 | 2400.00 | 0.06 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2089 | 0.4 | 3000.00 | 0.048 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2089 | 0.3 | 4000.00 | 0.041 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 1328 | 0.2 | 5000.00 | 0.024 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 1213 | 11.4 | 100.00 | 0.33 | 854 | 79 | NMRV040/050 | NRV040/050 |
| 1195 | 7.6 | 150.00 | 0.23 | 978 | 79 | NMRV040/050 | NRV040/050 |
| 1062 | 5.7 | 200.00 | 0.17 | 1076 | 79 | NMRV040/050 | NRV040/050 |
| 974 | 4.6 | 250.00 | 0.13 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 3.8 | 300.00 | 0.15 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1097 | 2.9 | 400.00 | 0.11 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1213 | 2.3 | 500.00 | 0.09 | 854 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 1.9 | 600.00 | 0.08 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 1.5 | 750.00 | 0.07 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1195 | 1.3 | 900.00 | 0.06 | 978 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 1.0 | 1200.00 | 0.05 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 0.8 | 1500.00 | 0.042 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 0.6 | 1800.00 | 0.038 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1097 | 0.5 | 2400.00 | 0.027 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1062 | 0.4 | 3000.00 | 0.022 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1062 | 0.3 | 4000.00 | 0.019 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1062 | 0.2 | 5000.00 | 0.017 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 2277 | 11.4 | 100.00 | 0.62 | 1117 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2300 | 7.6 | 150.00 | 0.45 | 1278 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2239 | 5.7 | 200.00 | 0.34 | 1407 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2045 | 4.6 | 250.00 | 0.26 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 3.8 | 300.00 | 0.28 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2259 | 2.9 | 400.00 | 0.22 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2045 | 2.3 | 500.00 | 0.14 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 1.9 | 600.00 | 0.15 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 1.5 | 750.00 | 0.13 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 1.3 | 900.00 | 0.11 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 1.0 | 1200.00 | 0.09 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 0.8 | 1500.00 | 0.08 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 0.6 | 1800.00 | 0.07 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2259 | 0.5 | 2400.00 | 0.05 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2089 | 0.4 | 3000.00 | 0.042 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2089 | 0.3 | 4000.00 | 0.036 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2089 | 0.2 | 5000.00 | 0.032 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 3257 | 11.4 | 100.00 | 0.88 | 1318 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3761 | 7.6 | 150.00 | 0.71 | 1509 | 79 | NMRV-P040/075 | NRV-P040/075 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 3715 | 5.7 | 200.00 | 0.56 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3359 | 4.6 | 250.00 | 0.42 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 3.8 | 300.00 | 0.44 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3664 | 2.9 | 400.00 | 0.33 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3257 | 2.3 | 500.00 | 0.26 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 1.9 | 600.00 | 0.24 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 1.5 | 750.00 | 0.2 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 1.3 | 900.00 | 0.18 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 1.0 | 1200.00 | 0.14 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 0.8 | 1500.00 | 0.12 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 0.6 | 1800.00 | 0.11 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3664 | 0.5 | 2400.00 | 0.08 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3257 | 0.4 | 3000.00 | 0.06 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3257 | 0.3 | 4000.00 | 0.05 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3257 | 0.2 | 5000.00 | 0.047 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3339 | 11.4 | 100.00 | 0.88 | 1458 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 4763 | 7.6 | 150.00 | 0.88 | 1669 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 5399 | 5.7 | 200.00 | 0.77 | 1838 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 5045 | 4.6 | 250.00 | 0.6 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 3.8 | 300.00 | 0.66 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 5399 | 2.9 | 400.00 | 0.47 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 4956 | 2.3 | 500.00 | 0.37 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 1.9 | 600.00 | 0.36 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 1.5 | 750.00 | 0.3 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 1.3 | 900.00 | 0.27 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 1.0 | 1200.00 | 0.21 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 0.8 | 1500.00 | 0.18 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 0.6 | 1800.00 | 0.16 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 5399 | 0.5 | 2400.00 | 0.12 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 4956 | 0.4 | 3000.00 | 0.09 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 4956 | 0.3 | 4000.00 | 0.08 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 4956 | 0.2 | 5000.00 | 0.07 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 5222 | 11.4 | 100.00 | 1.34 | 1458 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5841 | 7.6 | 150.00 | 1.05 | 1669 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5399 | 5.7 | 200.00 | 0.76 | 1838 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5045 | 4.6 | 250.00 | 0.59 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 3.8 | 300.00 | 0.65 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5399 | 2.9 | 400.00 | 0.46 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5045 | 2.3 | 500.00 | 0.32 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 1.9 | 600.00 | 0.35 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 6196 | 1.5 | 750.00 | 0.29 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 1.3 | 900.00 | 0.26 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 1.0 | 1200.00 | 0.21 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 0.8 | 1500.00 | 0.18 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 0.6 | 1800.00 | 0.16 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5399 | 0.5 | 2400.00 | 0.11 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 4956 | 0.4 | 3000.00 | 0.09 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 4956 | 0.3 | 4000.00 | 0.07 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 4956 | 0.2 | 5000.00 | 0.06 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6209 | 11.4 | 100.00 | 1.59 | 1843 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 8973 | 7.6 | 150.00 | 1.59 | 2110 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 10081 | 5.7 | 200.00 | 1.38 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 10382 | 4.6 | 250.00 | 1.16 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 3.8 | 300.00 | 1.17 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 10488 | 2.9 | 400.00 | 0.85 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 10382 | 2.3 | 500.00 | 0.63 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 1.9 | 600.00 | 0.64 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 1.5 | 750.00 | 0.53 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 1.3 | 900.00 | 0.47 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 1.0 | 1200.00 | 0.38 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 0.8 | 1500.00 | 0.32 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 0.6 | 1800.00 | 0.29 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 10488 | 0.5 | 2400.00 | 0.21 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 9736 | 0.4 | 3000.00 | 0.16 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 9736 | 0.3 | 4000.00 | 0.14 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 9736 | 0.2 | 5000.00 | 0.12 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 9975 | 11.4 | 100.00 | 2.55 | 1843 | 150 | NMRV-P063/110 | NRV-P063/110 |
| 10585 | 7.6 | 150.00 | 1.87 | 2110 | 150 | NMRV-P063/110 | NRV-P063/110 |
| 10081 | 5.7 | 200.00 | 1.37 | 2320 | 150 | NMRV-P063/110 | NRV-P063/110 |
| 10382 | 4.6 | 250.00 | 1.16 | 2320 | 150 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 3.8 | 300.00 | 1.17 | 2320 | 150 | NMRV-P063/110 | NRV-P063/110 |
| 10488 | 2.9 | 400.00 | 0.85 | 2320 | 150 | NMRV-P063/110 | NRV-P063/110 |
| 10382 | 2.3 | 500.00 | 0.62 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 1.9 | 600.00 | 0.63 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 1.5 | 750.00 | 0.52 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 1.3 | 900.00 | 0.46 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 1.0 | 1200.00 | 0.37 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 0.8 | 1500.00 | 0.31 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 0.6 | 1800.00 | 0.27 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 10488 | 0.5 | 2400.00 | 0.2 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 9736 | 0.4 | 3000.00 | 0.15 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 9736 | 0.3 | 4000.00 | 0.13 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 9736 | 0.2 | 5000.00 | 0.11 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 10471 | 11.4 | 100.00 | 2.65 | 2410 | 150 | NMRV-P063/130 | NRV-P063/130 |
| 14760 | 7.6 | 150.00 | 2.65 | 2759 | 150 | NMRV-P063/130 | NRV-P063/130 |
| 14161 | 5.7 | 200.00 | 1.93 | 3035 | 150 | NMRV-P063/130 | NRV-P063/130 |
| 13542 | 4.6 | 250.00 | 1.52 | 3035 | 150 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 3.8 | 300.00 | 1.6 | 3035 | 150 | NMRV-P063/130 | NRV-P063/130 |
| 14604 | 2.9 | 400.00 | 1.18 | 3035 | 150 | NMRV-P063/130 | NRV-P063/130 |
| 13719 | 2.3 | 500.00 | 0.93 | 3035 | 150 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 1.9 | 600.00 | 0.86 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 1.5 | 750.00 | 0.71 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 1.3 | 900.00 | 0.63 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 1.0 | 1200.00 | 0.5 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 0.8 | 1500.00 | 0.42 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 0.6 | 1800.00 | 0.37 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 14604 | 0.5 | 2400.00 | 0.28 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 13719 | 0.4 | 3000.00 | 0.22 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 13719 | 0.3 | 4000.00 | 0.18 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 13719 | 0.2 | 5000.00 | 0.16 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 19009 | 7.6 | 150.00 | 3.36 | 4047 | 130 | NMRV-P063/150 | NRV-P063/150 |
| 19428 | 5.7 | 200.00 | 2.65 | 4047 | 150 | NMRV-P063/150 | NRV-P063/150 |
| 18144 | 4.6 | 250.00 | 2.03 | 4047 | 150 | NMRV-P063/150 | NRV-P063/150 |
| 20711 | 3.8 | 300.00 | 1.95 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 23631 | 2.9 | 400.00 | 1.88 | 4047 | 150 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 2.3 | 500.00 | 1.4 | 4047 | 150 | NMRV-P063/150 | NRV-P063/150 |
| 23631 | 1.9 | 600.00 | 1.3 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 1.5 | 750.00 | 0.96 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 18587 | 1.3 | 900.00 | 0.7 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 23631 | 1.0 | 1200.00 | 0.74 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 0.8 | 1500.00 | 0.55 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 18587 | 0.6 | 1800.00 | 0.42 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 23631 | 0.5 | 2400.00 | 0.44 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 0.4 | 3000.00 | 0.33 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 0.3 | 4000.00 | 0.27 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 0.2 | 5000.00 | 0.24 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 283 | 17.5 | 100.00 | 0.13 | 323 | - | NMRV025/030 | - |
| 248 | 11.7 | 150.00 | 0.09 | 407 | - | NMRV025/030 | - |
| 248 | 8.8 | 200.00 | 0.07 | 407 | - | NMRV025/030 | - |
| 301 | 7.0 | 250.00 | 0.07 | 411 | - | NMRV025/030 | - |
| 274 | 5.8 | 300.00 | 0.06 | 411 | - | NMRV025/030 | - |
| 248 | 4.4 | 400.00 | 0.036 | 407 | - | NMRV025/030 | - |
| 301 | 3.5 | 500.00 | 0.041 | 411 | - | NMRV025/030 | - |
| 274 | 2.9 | 600.00 | 0.032 | 411 | - | NMRV025/030 | - |
| 301 | 2.3 | 750.00 | 0.03 | 411 | - | NMRV025/030 | - |
| 204 | 1.9 | 900.00 | 0.02 | 411 | - | NMRV025/030 | - |
| 248 | 1.5 | 1200.00 | 0.018 | 411 | - | NMRV025/030 | - |
| 230 | 1.2 | 1500.00 | 0.015 | 411 | - | NMRV025/030 | - |
| 274 | 1.0 | 1800.00 | 0.015 | 411 | - | NMRV025/030 | - |
| 248 | 0.7 | 2400.00 | 0.011 | 411 | - | NMRV025/030 | - |
| 230 | 0.6 | 3000.00 | 0.009 | 411 | - | NMRV025/030 | - |
| 177 | 0.4 | 4000.00 | 0.006 | 411 | - | NMRV025/030 | - |
| 628 | 17.5 | 100.00 | 0.27 | 622 | - | NMRV025/040 | - |
| 575 | 11.7 | 150.00 | 0.18 | 784 | - | NMRV025/040 | - |
| 575 | 8.8 | 200.00 | 0.14 | 784 | - | NMRV025/040 | - |
| 540 | 7.0 | 250.00 | 0.11 | 785 | - | NMRV025/040 | - |
| 646 | 5.8 | 300.00 | 0.12 | 785 | - | NMRV025/040 | - |
| 575 | 4.4 | 400.00 | 0.08 | 784 | - | NMRV025/040 | - |
| 540 | 3.5 | 500.00 | 0.06 | 785 | - | NMRV025/040 | - |
| 646 | 2.9 | 600.00 | 0.07 | 785 | - | NMRV025/040 | - |
| 540 | 2.3 | 750.00 | 0.046 | 785 | - | NMRV025/040 | - |
| 646 | 1.9 | 900.00 | 0.05 | 785 | - | NMRV025/040 | - |
| 575 | 1.5 | 1200.00 | 0.037 | 785 | - | NMRV025/040 | - |
| 531 | 1.2 | 1500.00 | 0.03 | 785 | - | NMRV025/040 | - |
| 646 | 1.0 | 1800.00 | 0.031 | 785 | - | NMRV025/040 | - |
| 575 | 0.7 | 2400.00 | 0.023 | 785 | - | NMRV025/040 | - |
| 531 | 0.6 | 3000.00 | 0.018 | 785 | - | NMRV025/040 | - |
| 425 | 0.4 | 4000.00 | 0.013 | 785 | - | NMRV025/040 | - |
| 381 | 0.4 | 5000.00 | 0.01 | 785 | - | NMRV025/040 | - |
| 628 | 17.5 | 100.00 | 0.27 | 622 | 38 | NMRV030/040 | NRV030/040 |
| 637 | 11.7 | 150.00 | 0.19 | 713 | 38 | NMRV030/040 | NRV030/040 |
| 575 | 8.8 | 200.00 | 0.14 | 784 | 38 | NMRV030/040 | NRV030/040 |
| 540 | 7.0 | 250.00 | 0.11 | 785 | 38 | NMRV030/040 | NRV030/040 |
| 646 | 5.8 | 300.00 | 0.12 | 785 | 38 | NMRV030/040 | NRV030/040 |
| 575 | 4.4 | 400.00 | 0.09 | 785 | 38 | NMRV030/040 | NRV030/040 |
| 540 | 3.5 | 500.00 | 0.06 | 785 | 40 | NMRV030/040 | NRV030/040 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 646 | 2.9 | 600.00 | 0.07 | 785 | 40 | NMRV030/040 | NRV030/040 |
| 646 | 2.3 | 750.00 | 0.06 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 646 | 1.9 | 900.00 | 0.05 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 646 | 1.5 | 1200.00 | 0.042 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 646 | 1.2 | 1500.00 | 0.036 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 646 | 1.0 | 1800.00 | 0.032 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 575 | 0.7 | 2400.00 | 0.024 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 531 | 0.6 | 3000.00 | 0.019 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 425 | 0.4 | 4000.00 | 0.013 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 381 | 0.4 | 5000.00 | 0.011 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 1213 | 17.5 | 100.00 | 0.51 | 854 | 38 | NMRV030/050 | NRV030/050 |
| 1195 | 11.7 | 150.00 | 0.37 | 978 | 38 | NMRV030/050 | NRV030/050 |
| 1062 | 8.8 | 200.00 | 0.26 | 1076 | 38 | NMRV030/050 | NRV030/050 |
| 974 | 7.0 | 250.00 | 0.2 | 1088 | 38 | NMRV030/050 | NRV030/050 |
| 1283 | 5.8 | 300.00 | 0.24 | 1088 | 38 | NMRV030/050 | NRV030/050 |
| 1097 | 4.4 | 400.00 | 0.17 | 1088 | 38 | NMRV030/050 | NRV030/050 |
| 1062 | 3.5 | 500.00 | 0.14 | 1088 | 38 | NMRV030/050 | NRV030/050 |
| 1283 | 2.9 | 600.00 | 0.13 | 1088 | 40 | NMRV030/050 | NRV030/050 |
| 1283 | 2.3 | 750.00 | 0.11 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1283 | 1.9 | 900.00 | 0.1 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1283 | 1.5 | 1200.00 | 0.08 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1283 | 1.2 | 1500.00 | 0.07 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1283 | 1.0 | 1800.00 | 0.06 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1097 | 0.7 | 2400.00 | 0.045 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1062 | 0.6 | 3000.00 | 0.038 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 726 | 0.4 | 4000.00 | 0.022 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 699 | 0.4 | 5000.00 | 0.019 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1264 | 17.5 | 100.00 | 0.54 | 1117 | 38 | NMRV-P030/063 | NRV-P030/063 |
| 1777 | 11.7 | 150.00 | 0.54 | 1278 | 38 | NMRV-P030/063 | NRV-P030/063 |
| 2239 | 8.8 | 200.00 | 0.54 | 1407 | 38 | NMRV-P030/063 | NRV-P030/063 |
| 2045 | 7.0 | 250.00 | 0.41 | 1410 | 38 | NMRV-P030/063 | NRV-P030/063 |
| 2259 | 5.8 | 300.00 | 0.44 | 1410 | 34 | NMRV-P030/063 | NRV-P030/063 |
| 2259 | 4.4 | 400.00 | 0.34 | 1410 | 38 | NMRV-P030/063 | NRV-P030/063 |
| 2089 | 3.5 | 500.00 | 0.27 | 1410 | 38 | NMRV-P030/063 | NRV-P030/063 |
| 2398 | 2.9 | 600.00 | 0.25 | 1410 | 40 | NMRV-P030/063 | NRV-P030/063 |
| 2398 | 2.3 | 750.00 | 0.21 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2398 | 1.9 | 900.00 | 0.18 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2398 | 1.5 | 1200.00 | 0.15 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2398 | 1.2 | 1500.00 | 0.13 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2398 | 1.0 | 1800.00 | 0.12 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 2259 | 0.7 | 2400.00 | 0.09 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2089 | 0.6 | 3000.00 | 0.07 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2089 | 0.4 | 4000.00 | 0.06 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 1328 | 0.4 | 5000.00 | 0.036 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 1213 | 17.5 | 100.00 | 0.5 | 854 | 77 | NMRV040/050 | NRV040/050 |
| 1195 | 11.7 | 150.00 | 0.36 | 978 | 77 | NMRV040/050 | NRV040/050 |
| 1062 | 8.8 | 200.00 | 0.25 | 1076 | 77 | NMRV040/050 | NRV040/050 |
| 974 | 7.0 | 250.00 | 0.2 | 1088 | 77 | NMRV040/050 | NRV040/050 |
| 1283 | 5.8 | 300.00 | 0.23 | 1088 | 77 | NMRV040/050 | NRV040/050 |
| 1097 | 4.4 | 400.00 | 0.17 | 1088 | 77 | NMRV040/050 | NRV040/050 |
| 1213 | 3.5 | 500.00 | 0.14 | 854 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 2.9 | 600.00 | 0.13 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 2.3 | 750.00 | 0.1 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1195 | 1.9 | 900.00 | 0.09 | 978 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 1.5 | 1200.00 | 0.07 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 1.2 | 1500.00 | 0.06 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 1.0 | 1800.00 | 0.06 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1097 | 0.7 | 2400.00 | 0.04 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1062 | 0.6 | 3000.00 | 0.033 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1062 | 0.4 | 4000.00 | 0.028 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1062 | 0.4 | 5000.00 | 0.025 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 2277 | 17.5 | 100.00 | 0.94 | 1117 | 77 | NMRV-P040/063 | NRV-P040/063 |
| 2300 | 11.7 | 150.00 | 0.68 | 1278 | 77 | NMRV-P040/063 | NRV-P040/063 |
| 2239 | 8.8 | 200.00 | 0.52 | 1407 | 77 | NMRV-P040/063 | NRV-P040/063 |
| 2045 | 7.0 | 250.00 | 0.4 | 1410 | 77 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 5.8 | 300.00 | 0.43 | 1410 | 77 | NMRV-P040/063 | NRV-P040/063 |
| 2259 | 4.4 | 400.00 | 0.33 | 1410 | 77 | NMRV-P040/063 | NRV-P040/063 |
| 2045 | 3.5 | 500.00 | 0.21 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 2.9 | 600.00 | 0.23 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 2.3 | 750.00 | 0.19 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 1.9 | 900.00 | 0.17 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 1.5 | 1200.00 | 0.14 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 1.2 | 1500.00 | 0.12 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 1.0 | 1800.00 | 0.1 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2259 | 0.7 | 2400.00 | 0.08 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2089 | 0.6 | 3000.00 | 0.06 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2089 | 0.4 | 4000.00 | 0.05 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2089 | 0.4 | 5000.00 | 0.046 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2961 | 17.5 | 100.00 | 1.21 | 1318 | 77 | NMRV-P040/075 | NRV-P040/075 |
| 3761 | 11.7 | 150.00 | 1.08 | 1509 | 77 | NMRV-P040/075 | NRV-P040/075 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 3715 | 8.8 | 200.00 | 0.84 | 1659 | 77 | NMRV-P040/075 | NRV-P040/075 |
| 3359 | 7.0 | 250.00 | 0.64 | 1659 | 77 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 5.8 | 300.00 | 0.67 | 1659 | 77 | NMRV-P040/075 | NRV-P040/075 |
| 3664 | 4.4 | 400.00 | 0.51 | 1659 | 77 | NMRV-P040/075 | NRV-P040/075 |
| 3257 | 3.5 | 500.00 | 0.39 | 1659 | 77 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 2.9 | 600.00 | 0.36 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 2.3 | 750.00 | 0.3 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 1.9 | 900.00 | 0.27 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 1.5 | 1200.00 | 0.22 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 1.2 | 1500.00 | 0.18 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 1.0 | 1800.00 | 0.16 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3664 | 0.7 | 2400.00 | 0.12 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3257 | 0.6 | 3000.00 | 0.09 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3257 | 0.4 | 4000.00 | 0.08 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3257 | 0.4 | 5000.00 | 0.07 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3035 | 17.5 | 100.00 | 1.21 | 1458 | 77 | NMRV-P040/090 | NRV-P040/090 |
| 4330 | 11.7 | 150.00 | 1.21 | 1669 | 77 | NMRV-P040/090 | NRV-P040/090 |
| 5399 | 8.8 | 200.00 | 1.18 | 1838 | 77 | NMRV-P040/090 | NRV-P040/090 |
| 5045 | 7.0 | 250.00 | 0.92 | 1839 | 77 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 5.8 | 300.00 | 1.01 | 1839 | 77 | NMRV-P040/090 | NRV-P040/090 |
| 5399 | 4.4 | 400.00 | 0.71 | 1839 | 77 | NMRV-P040/090 | NRV-P040/090 |
| 4956 | 3.5 | 500.00 | 0.56 | 1839 | 77 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 2.9 | 600.00 | 0.54 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 2.3 | 750.00 | 0.45 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 1.9 | 900.00 | 0.4 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 1.5 | 1200.00 | 0.32 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 1.2 | 1500.00 | 0.27 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 6196 | 1.0 | 1800.00 | 0.24 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 5399 | 0.7 | 2400.00 | 0.17 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 4956 | 0.6 | 3000.00 | 0.13 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 4956 | 0.4 | 4000.00 | 0.11 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 4956 | 0.4 | 5000.00 | 0.1 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 5222 | 17.5 | 100.00 | 2.03 | 1458 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5841 | 11.7 | 150.00 | 1.59 | 1669 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5399 | 8.8 | 200.00 | 1.15 | 1838 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5045 | 7.0 | 250.00 | 0.89 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 5.8 | 300.00 | 0.98 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5399 | 4.4 | 400.00 | 0.69 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5045 | 3.5 | 500.00 | 0.49 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 2.9 | 600.00 | 0.53 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 6196 | 2.3 | 750.00 | 0.44 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 1.9 | 900.00 | 0.39 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 1.5 | 1200.00 | 0.31 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 1.2 | 1500.00 | 0.27 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 1.0 | 1800.00 | 0.24 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5399 | 0.7 | 2400.00 | 0.17 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 4956 | 0.6 | 3000.00 | 0.13 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 4956 | 0.4 | 4000.00 | 0.11 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 4956 | 0.4 | 5000.00 | 0.09 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5446 | 17.5 | 100.00 | 2.12 | 1843 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 7871 | 11.7 | 150.00 | 2.12 | 2110 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 10081 | 8.8 | 200.00 | 2.09 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 10382 | 7.0 | 250.00 | 1.77 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 5.8 | 300.00 | 1.78 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 10488 | 4.4 | 400.00 | 1.29 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 10382 | 3.5 | 500.00 | 0.96 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 2.9 | 600.00 | 0.97 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 2.3 | 750.00 | 0.8 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 1.9 | 900.00 | 0.71 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 1.5 | 1200.00 | 0.57 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 1.2 | 1500.00 | 0.48 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 11196 | 1.0 | 1800.00 | 0.43 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 10488 | 0.7 | 2400.00 | 0.31 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 9736 | 0.6 | 3000.00 | 0.24 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 9736 | 0.4 | 4000.00 | 0.2 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 9736 | 0.4 | 5000.00 | 0.17 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 9090 | 17.5 | 100.00 | 3.52 | 1843 | 130 | NMRV-P063/110 | NRV-P063/110 |
| 10585 | 11.7 | 150.00 | 2.84 | 2110 | 130 | NMRV-P063/110 | NRV-P063/110 |
| 10081 | 8.8 | 200.00 | 2.08 | 2320 | 130 | NMRV-P063/110 | NRV-P063/110 |
| 10382 | 7.0 | 250.00 | 1.76 | 2320 | 130 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 5.8 | 300.00 | 1.77 | 2320 | 130 | NMRV-P063/110 | NRV-P063/110 |
| 10488 | 4.4 | 400.00 | 1.28 | 2320 | 130 | NMRV-P063/110 | NRV-P063/110 |
| 10382 | 3.5 | 500.00 | 0.93 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 2.9 | 600.00 | 0.94 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 2.3 | 750.00 | 0.77 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 1.9 | 900.00 | 0.68 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 1.5 | 1200.00 | 0.54 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 1.2 | 1500.00 | 0.45 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 1.0 | 1800.00 | 0.4 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 10488 | 0.7 | 2400.00 | 0.29 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 9736 | 0.6 | 3000.00 | 0.23 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 9736 | 0.4 | 4000.00 | 0.18 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 9736 | 0.4 | 5000.00 | 0.16 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 9201 | 17.5 | 100.00 | 3.52 | 2410 | 130 | NMRV-P063/130 | NRV-P063/130 |
| 12969 | 11.7 | 150.00 | 3.52 | 2759 | 130 | NMRV-P063/130 | NRV-P063/130 |
| 14161 | 8.8 | 200.00 | 2.92 | 3035 | 130 | NMRV-P063/130 | NRV-P063/130 |
| 13542 | 7.0 | 250.00 | 2.29 | 3035 | 130 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 5.8 | 300.00 | 2.42 | 3035 | 130 | NMRV-P063/130 | NRV-P063/130 |
| 14604 | 4.4 | 400.00 | 1.78 | 3035 | 130 | NMRV-P063/130 | NRV-P063/130 |
| 13719 | 3.5 | 500.00 | 1.41 | 3035 | 130 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 2.9 | 600.00 | 1.28 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 2.3 | 750.00 | 1.06 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 1.9 | 900.00 | 0.93 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 1.5 | 1200.00 | 0.74 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 1.2 | 1500.00 | 0.62 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 1.0 | 1800.00 | 0.55 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 14604 | 0.7 | 2400.00 | 0.4 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 13719 | 0.6 | 3000.00 | 0.32 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 13719 | 0.4 | 4000.00 | 0.26 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 13719 | 0.4 | 5000.00 | 0.23 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 16575 | 11.7 | 150.00 | 4.46 | 4047 | 112 | NMRV-P063/150 | NRV-P063/150 |
| 17071 | 8.8 | 200.00 | 3.52 | 4047 | 130 | NMRV-P063/150 | NRV-P063/150 |
| 18144 | 7.0 | 250.00 | 3.07 | 4047 | 130 | NMRV-P063/150 | NRV-P063/150 |
| 19038 | 5.8 | 300.00 | 2.7 | 4047 | 145 | NMRV-P063/150 | NRV-P063/150 |
| 23631 | 4.4 | 400.00 | 2.84 | 4047 | 130 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 3.5 | 500.00 | 2.11 | 4047 | 130 | NMRV-P063/150 | NRV-P063/150 |
| 23631 | 2.9 | 600.00 | 1.96 | 4047 | 145 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 2.3 | 750.00 | 1.45 | 4047 | 145 | NMRV-P063/150 | NRV-P063/150 |
| 18587 | 1.9 | 900.00 | 1.04 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 23631 | 1.5 | 1200.00 | 1.09 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 1.2 | 1500.00 | 0.81 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 18587 | 1.0 | 1800.00 | 0.61 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 23631 | 0.7 | 2400.00 | 0.64 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 0.6 | 3000.00 | 0.48 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 0.4 | 4000.00 | 0.39 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 0.4 | 5000.00 | 0.35 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|-------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 283 | 35.0 | 100.00 | 0.24 | 323 | - | NMRV025/030 | - |
| 248 | 23.3 | 150.00 | 0.17 | 407 | - | NMRV025/030 | - |
| 248 | 17.5 | 200.00 | 0.13 | 407 | - | NMRV025/030 | - |
| 301 | 14.0 | 250.00 | 0.14 | 411 | - | NMRV025/030 | - |
| 274 | 11.7 | 300.00 | 0.11 | 411 | - | NMRV025/030 | - |
| 248 | 8.8 | 400.00 | 0.07 | 407 | - | NMRV025/030 | - |
| 301 | 7.0 | 500.00 | 0.08 | 411 | - | NMRV025/030 | - |
| 274 | 5.8 | 600.00 | 0.06 | 411 | - | NMRV025/030 | - |
| 301 | 4.7 | 750.00 | 0.06 | 411 | - | NMRV025/030 | - |
| 204 | 3.9 | 900.00 | 0.039 | 411 | - | NMRV025/030 | - |
| 248 | 2.9 | 1200.00 | 0.033 | 411 | - | NMRV025/030 | - |
| 230 | 2.3 | 1500.00 | 0.027 | 411 | - | NMRV025/030 | - |
| 274 | 1.9 | 1800.00 | 0.026 | 411 | - | NMRV025/030 | - |
| 248 | 1.5 | 2400.00 | 0.02 | 411 | - | NMRV025/030 | - |
| 230 | 1.2 | 3000.00 | 0.016 | 411 | - | NMRV025/030 | - |
| 177 | 0.9 | 4000.00 | 0.012 | 411 | - | NMRV025/030 | - |
| 583 | 35.0 | 100.00 | 0.49 | 622 | - | NMRV025/040 | - |
| 575 | 23.3 | 150.00 | 0.35 | 784 | - | NMRV025/040 | - |
| 575 | 17.5 | 200.00 | 0.27 | 784 | - | NMRV025/040 | - |
| 540 | 14.0 | 250.00 | 0.21 | 785 | - | NMRV025/040 | - |
| 646 | 11.7 | 300.00 | 0.24 | 785 | - | NMRV025/040 | - |
| 575 | 8.8 | 400.00 | 0.15 | 784 | - | NMRV025/040 | - |
| 540 | 7.0 | 500.00 | 0.12 | 785 | - | NMRV025/040 | - |
| 646 | 5.8 | 600.00 | 0.13 | 785 | - | NMRV025/040 | - |
| 540 | 4.7 | 750.00 | 0.08 | 785 | - | NMRV025/040 | - |
| 646 | 3.9 | 900.00 | 0.09 | 785 | - | NMRV025/040 | - |
| 575 | 2.9 | 1200.00 | 0.07 | 785 | - | NMRV025/040 | - |
| 531 | 2.3 | 1500.00 | 0.05 | 785 | - | NMRV025/040 | - |
| 646 | 1.9 | 1800.00 | 0.06 | 785 | - | NMRV025/040 | - |
| 575 | 1.5 | 2400.00 | 0.041 | 785 | - | NMRV025/040 | - |
| 531 | 1.2 | 3000.00 | 0.033 | 785 | - | NMRV025/040 | - |
| 425 | 0.9 | 4000.00 | 0.023 | 785 | - | NMRV025/040 | - |
| 381 | 0.7 | 5000.00 | 0.019 | 785 | - | NMRV025/040 | - |
| 628 | 35.0 | 100.00 | 0.53 | 622 | 31 | NMRV030/040 | NRV030/040 |
| 637 | 23.3 | 150.00 | 0.38 | 713 | 31 | NMRV030/040 | NRV030/040 |
| 575 | 17.5 | 200.00 | 0.27 | 784 | 31 | NMRV030/040 | NRV030/040 |
| 540 | 14.0 | 250.00 | 0.21 | 785 | 31 | NMRV030/040 | NRV030/040 |
| 646 | 11.7 | 300.00 | 0.24 | 785 | 31 | NMRV030/040 | NRV030/040 |
| 575 | 8.8 | 400.00 | 0.18 | 785 | 31 | NMRV030/040 | NRV030/040 |
| 540 | 7.0 | 500.00 | 0.12 | 785 | 33 | NMRV030/040 | NRV030/040 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 646 | 5.8 | 600.00 | 0.13 | 785 | 33 | NMRV030/040 | NRV030/040 |
| 646 | 4.7 | 750.00 | 0.11 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 646 | 3.9 | 900.00 | 0.09 | 785 | 47 | NMRV030/040 | NRV030/040 |
| 646 | 2.9 | 1200.00 | 0.08 | 785 | 29 | NMRV030/040 | NRV030/040 |
| 646 | 2.3 | 1500.00 | 0.06 | 785 | 29 | NMRV030/040 | NRV030/040 |
| 646 | 1.9 | 1800.00 | 0.06 | 785 | 28 | NMRV030/040 | NRV030/040 |
| 575 | 1.5 | 2400.00 | 0.043 | 785 | 28 | NMRV030/040 | NRV030/040 |
| 531 | 1.2 | 3000.00 | 0.034 | 785 | 28 | NMRV030/040 | NRV030/040 |
| 425 | 0.9 | 4000.00 | 0.023 | 785 | 29 | NMRV030/040 | NRV030/040 |
| 381 | 0.7 | 5000.00 | 0.019 | 785 | 29 | NMRV030/040 | NRV030/040 |
| 861 | 35.0 | 100.00 | 0.7 | 854 | 31 | NMRV030/050 | NRV030/050 |
| 1194 | 23.3 | 150.00 | 0.7 | 978 | 31 | NMRV030/050 | NRV030/050 |
| 1062 | 17.5 | 200.00 | 0.5 | 1076 | 31 | NMRV030/050 | NRV030/050 |
| 974 | 14.0 | 250.00 | 0.39 | 1088 | 31 | NMRV030/050 | NRV030/050 |
| 1283 | 11.7 | 300.00 | 0.46 | 1088 | 31 | NMRV030/050 | NRV030/050 |
| 1097 | 8.8 | 400.00 | 0.33 | 1088 | 31 | NMRV030/050 | NRV030/050 |
| 1062 | 7.0 | 500.00 | 0.27 | 1088 | 31 | NMRV030/050 | NRV030/050 |
| 1283 | 5.8 | 600.00 | 0.25 | 1088 | 33 | NMRV030/050 | NRV030/050 |
| 1283 | 4.7 | 750.00 | 0.21 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1283 | 3.9 | 900.00 | 0.18 | 1088 | 47 | NMRV030/050 | NRV030/050 |
| 1283 | 2.9 | 1200.00 | 0.15 | 1088 | 29 | NMRV030/050 | NRV030/050 |
| 1283 | 2.3 | 1500.00 | 0.13 | 1088 | 29 | NMRV030/050 | NRV030/050 |
| 1283 | 1.9 | 1800.00 | 0.11 | 1088 | 28 | NMRV030/050 | NRV030/050 |
| 1097 | 1.5 | 2400.00 | 0.08 | 1088 | 28 | NMRV030/050 | NRV030/050 |
| 1062 | 1.2 | 3000.00 | 0.07 | 1088 | 28 | NMRV030/050 | NRV030/050 |
| 726 | 0.9 | 4000.00 | 0.04 | 1088 | 29 | NMRV030/050 | NRV030/050 |
| 699 | 0.7 | 5000.00 | 0.034 | 1088 | 29 | NMRV030/050 | NRV030/050 |
| 861 | 35.0 | 100.00 | 0.7 | 1117 | 31 | NMRV-P030/063 | NRV-P030/063 |
| 1210 | 23.3 | 150.00 | 0.7 | 1278 | 31 | NMRV-P030/063 | NRV-P030/063 |
| 1526 | 17.5 | 200.00 | 0.7 | 1407 | 31 | NMRV-P030/063 | NRV-P030/063 |
| 1826 | 14.0 | 250.00 | 0.7 | 1410 | 31 | NMRV-P030/063 | NRV-P030/063 |
| 2259 | 11.7 | 300.00 | 0.86 | 1410 | 28 | NMRV-P030/063 | NRV-P030/063 |
| 2259 | 8.8 | 400.00 | 0.65 | 1410 | 31 | NMRV-P030/063 | NRV-P030/063 |
| 2089 | 7.0 | 500.00 | 0.52 | 1410 | 31 | NMRV-P030/063 | NRV-P030/063 |
| 1849 | 5.8 | 600.00 | 0.36 | 1410 | 33 | NMRV-P030/063 | NRV-P030/063 |
| 2398 | 4.7 | 750.00 | 0.39 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2306 | 3.9 | 900.00 | 0.32 | 1410 | 47 | NMRV-P030/063 | NRV-P030/063 |
| 2160 | 2.9 | 1200.00 | 0.24 | 1410 | 29 | NMRV-P030/063 | NRV-P030/063 |
| 1995 | 2.3 | 1500.00 | 0.19 | 1410 | 29 | NMRV-P030/063 | NRV-P030/063 |
| 1849 | 1.9 | 1800.00 | 0.16 | 1410 | 28 | NMRV-P030/063 | NRV-P030/063 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 2259 | 1.5 | 2400.00 | 0.16 | 1410 | 28 | NMRV-P030/063 | NRV-P030/063 |
| 2089 | 1.2 | 3000.00 | 0.13 | 1410 | 28 | NMRV-P030/063 | NRV-P030/063 |
| 2089 | 0.9 | 4000.00 | 0.11 | 1410 | 29 | NMRV-P030/063 | NRV-P030/063 |
| 1328 | 0.7 | 5000.00 | 0.06 | 1410 | 29 | NMRV-P030/063 | NRV-P030/063 |
| 1213 | 35.0 | 100.00 | 0.97 | 854 | 61 | NMRV040/050 | NRV040/050 |
| 1195 | 23.3 | 150.00 | 0.69 | 978 | 61 | NMRV040/050 | NRV040/050 |
| 1062 | 17.5 | 200.00 | 0.49 | 1076 | 61 | NMRV040/050 | NRV040/050 |
| 974 | 14.0 | 250.00 | 0.38 | 1088 | 61 | NMRV040/050 | NRV040/050 |
| 1283 | 11.7 | 300.00 | 0.45 | 1088 | 61 | NMRV040/050 | NRV040/050 |
| 1097 | 8.8 | 400.00 | 0.32 | 1088 | 61 | NMRV040/050 | NRV040/050 |
| 1213 | 7.0 | 500.00 | 0.25 | 854 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 5.8 | 600.00 | 0.24 | 1088 | 46 | NMRV040/050 | NRV040/050 |
| 1283 | 4.7 | 750.00 | 0.2 | 1088 | 53 | NMRV040/050 | NRV040/050 |
| 1195 | 3.9 | 900.00 | 0.15 | 978 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 2.9 | 1200.00 | 0.14 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 2.3 | 1500.00 | 0.11 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1283 | 1.9 | 1800.00 | 0.1 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1097 | 1.5 | 2400.00 | 0.07 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1062 | 1.2 | 3000.00 | 0.06 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1062 | 0.9 | 4000.00 | 0.049 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1062 | 0.7 | 5000.00 | 0.043 | 1088 | 79 | NMRV040/050 | NRV040/050 |
| 1928 | 35.0 | 100.00 | 1.54 | 1117 | 61 | NMRV-P040/063 | NRV-P040/063 |
| 2300 | 23.3 | 150.00 | 1.31 | 1278 | 61 | NMRV-P040/063 | NRV-P040/063 |
| 2239 | 17.5 | 200.00 | 1.01 | 1407 | 61 | NMRV-P040/063 | NRV-P040/063 |
| 2045 | 14.0 | 250.00 | 0.77 | 1410 | 61 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 11.7 | 300.00 | 0.83 | 1410 | 61 | NMRV-P040/063 | NRV-P040/063 |
| 2259 | 8.8 | 400.00 | 0.64 | 1410 | 61 | NMRV-P040/063 | NRV-P040/063 |
| 2045 | 7.0 | 500.00 | 0.41 | 1410 | 46 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 5.8 | 600.00 | 0.44 | 1410 | 46 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 4.7 | 750.00 | 0.36 | 1410 | 53 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 3.9 | 900.00 | 0.32 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 2.9 | 1200.00 | 0.25 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 2.3 | 1500.00 | 0.21 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2398 | 1.9 | 1800.00 | 0.18 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2259 | 1.5 | 2400.00 | 0.14 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2089 | 1.2 | 3000.00 | 0.11 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2089 | 0.9 | 4000.00 | 0.09 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 2089 | 0.7 | 5000.00 | 0.08 | 1410 | 79 | NMRV-P040/063 | NRV-P040/063 |
| 1953 | 35.0 | 100.00 | 1.54 | 1318 | 61 | NMRV-P040/075 | NRV-P040/075 |
| 2782 | 23.3 | 150.00 | 1.54 | 1509 | 61 | NMRV-P040/075 | NRV-P040/075 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 3515 | 17.5 | 200.00 | 1.54 | 1659 | 61 | NMRV-P040/075 | NRV-P040/075 |
| 3359 | 14.0 | 250.00 | 1.23 | 1659 | 61 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 11.7 | 300.00 | 1.29 | 1659 | 61 | NMRV-P040/075 | NRV-P040/075 |
| 3664 | 8.8 | 400.00 | 0.98 | 1659 | 61 | NMRV-P040/075 | NRV-P040/075 |
| 3257 | 7.0 | 500.00 | 0.76 | 1659 | 61 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 5.8 | 600.00 | 0.68 | 1659 | 46 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 4.7 | 750.00 | 0.57 | 1659 | 53 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 3.9 | 900.00 | 0.49 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 2.9 | 1200.00 | 0.39 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 2.3 | 1500.00 | 0.33 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3929 | 1.9 | 1800.00 | 0.29 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3664 | 1.5 | 2400.00 | 0.22 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3257 | 1.2 | 3000.00 | 0.17 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3257 | 0.9 | 4000.00 | 0.14 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 3257 | 0.7 | 5000.00 | 0.12 | 1659 | 79 | NMRV-P040/075 | NRV-P040/075 |
| 2001 | 35.0 | 100.00 | 1.54 | 1458 | 61 | NMRV-P040/090 | NRV-P040/090 |
| 2856 | 23.3 | 150.00 | 1.54 | 1669 | 61 | NMRV-P040/090 | NRV-P040/090 |
| 3661 | 17.5 | 200.00 | 1.54 | 1838 | 61 | NMRV-P040/090 | NRV-P040/090 |
| 4393 | 14.0 | 250.00 | 1.54 | 1839 | 61 | NMRV-P040/090 | NRV-P040/090 |
| 4906 | 11.7 | 300.00 | 1.54 | 1839 | 61 | NMRV-P040/090 | NRV-P040/090 |
| 5399 | 8.8 | 400.00 | 1.37 | 1839 | 61 | NMRV-P040/090 | NRV-P040/090 |
| 4956 | 7.0 | 500.00 | 1.08 | 1839 | 61 | NMRV-P040/090 | NRV-P040/090 |
| 4906 | 5.8 | 600.00 | 0.82 | 1839 | 46 | NMRV-P040/090 | NRV-P040/090 |
| 4725 | 4.7 | 750.00 | 0.65 | 1839 | 53 | NMRV-P040/090 | NRV-P040/090 |
| 5750 | 3.9 | 900.00 | 0.69 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 5248 | 2.9 | 1200.00 | 0.5 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 5067 | 2.3 | 1500.00 | 0.41 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 4725 | 1.9 | 1800.00 | 0.33 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 5399 | 1.5 | 2400.00 | 0.31 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 4956 | 1.2 | 3000.00 | 0.24 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 4956 | 0.9 | 4000.00 | 0.2 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 4956 | 0.7 | 5000.00 | 0.17 | 1839 | 79 | NMRV-P040/090 | NRV-P040/090 |
| 3724 | 35.0 | 100.00 | 2.83 | 1458 | 85 | NMRV-P050/090 | NRV-P050/090 |
| 5313 | 23.3 | 150.00 | 2.83 | 1669 | 85 | NMRV-P050/090 | NRV-P050/090 |
| 5399 | 17.5 | 200.00 | 2.25 | 1838 | 85 | NMRV-P050/090 | NRV-P050/090 |
| 5045 | 14.0 | 250.00 | 1.75 | 1839 | 85 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 11.7 | 300.00 | 1.92 | 1839 | 85 | NMRV-P050/090 | NRV-P050/090 |
| 5399 | 8.8 | 400.00 | 1.36 | 1839 | 85 | NMRV-P050/090 | NRV-P050/090 |
| 5045 | 7.0 | 500.00 | 0.94 | 1839 | 94 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 5.8 | 600.00 | 1.03 | 1839 | 94 | NMRV-P050/090 | NRV-P050/090 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 6196 | 4.7 | 750.00 | 0.85 | 1839 | 108 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 3.9 | 900.00 | 0.74 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 2.9 | 1200.00 | 0.58 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 2.3 | 1500.00 | 0.49 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 6196 | 1.9 | 1800.00 | 0.43 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 5399 | 1.5 | 2400.00 | 0.3 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 4956 | 1.2 | 3000.00 | 0.24 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 4956 | 0.9 | 4000.00 | 0.19 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 4956 | 0.7 | 5000.00 | 0.17 | 1839 | 110 | NMRV-P050/090 | NRV-P050/090 |
| 3724 | 35.0 | 100.00 | 2.83 | 1843 | 85 | NMRV-P050/110 | NRV-P050/110 |
| 5382 | 23.3 | 150.00 | 2.83 | 2110 | 85 | NMRV-P050/110 | NRV-P050/110 |
| 6994 | 17.5 | 200.00 | 2.83 | 2320 | 85 | NMRV-P050/110 | NRV-P050/110 |
| 8515 | 14.0 | 250.00 | 2.83 | 2320 | 85 | NMRV-P050/110 | NRV-P050/110 |
| 9128 | 11.7 | 300.00 | 2.83 | 2320 | 85 | NMRV-P050/110 | NRV-P050/110 |
| 10488 | 8.8 | 400.00 | 2.52 | 2320 | 85 | NMRV-P050/110 | NRV-P050/110 |
| 8365 | 7.0 | 500.00 | 1.49 | 2320 | 94 | NMRV-P050/110 | NRV-P050/110 |
| 8967 | 5.8 | 600.00 | 1.49 | 2320 | 94 | NMRV-P050/110 | NRV-P050/110 |
| 8626 | 4.7 | 750.00 | 1.18 | 2320 | 108 | NMRV-P050/110 | NRV-P050/110 |
| 10817 | 3.9 | 900.00 | 1.29 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 9973 | 2.9 | 1200.00 | 0.93 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 8967 | 2.3 | 1500.00 | 0.71 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 8445 | 1.9 | 1800.00 | 0.58 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 10488 | 1.5 | 2400.00 | 0.56 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 9736 | 1.2 | 3000.00 | 0.43 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 9736 | 0.9 | 4000.00 | 0.35 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 9736 | 0.7 | 5000.00 | 0.31 | 2320 | 110 | NMRV-P050/110 | NRV-P050/110 |
| 6873 | 35.0 | 100.00 | 5.11 | 1843 | 106 | NMRV-P063/110 | NRV-P063/110 |
| 9932 | 23.3 | 150.00 | 5.11 | 2110 | 106 | NMRV-P063/110 | NRV-P063/110 |
| 10081 | 17.5 | 200.00 | 3.99 | 2320 | 106 | NMRV-P063/110 | NRV-P063/110 |
| 10382 | 14.0 | 250.00 | 3.38 | 2320 | 106 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 11.7 | 300.00 | 3.4 | 2320 | 106 | NMRV-P063/110 | NRV-P063/110 |
| 10488 | 8.8 | 400.00 | 2.46 | 2320 | 106 | NMRV-P063/110 | NRV-P063/110 |
| 10382 | 7.0 | 500.00 | 1.77 | 2320 | 119 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 5.8 | 600.00 | 1.78 | 2320 | 119 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 4.7 | 750.00 | 1.46 | 2320 | 132 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 3.9 | 900.00 | 1.26 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 2.9 | 1200.00 | 0.98 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 2.3 | 1500.00 | 0.82 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 11196 | 1.9 | 1800.00 | 0.72 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 10488 | 1.5 | 2400.00 | 0.52 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |

| Maximum torque [in-lbs] | Output speed [rpm] | Exact ratio i | Maximum Power [HP] | OHL | | Gear Reducer | |
|----------------------------|-----------------------|------------------|-----------------------|-----------------------|----------------------|-----------------|--------------|
| | | | | Output shaft [lbs] | Input shaft [lbs] | Motorized Input | Shaft Input |
| 9736 | 1.2 | 3000.00 | 0.4 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 9736 | 0.9 | 4000.00 | 0.33 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 9736 | 0.7 | 5000.00 | 0.29 | 2320 | 157 | NMRV-P063/110 | NRV-P063/110 |
| 6957 | 35.0 | 100.00 | 5.11 | 2410 | 106 | NMRV-P063/130 | NRV-P063/130 |
| 9806 | 23.3 | 150.00 | 5.11 | 2759 | 106 | NMRV-P063/130 | NRV-P063/130 |
| 12907 | 17.5 | 200.00 | 5.11 | 3035 | 106 | NMRV-P063/130 | NRV-P063/130 |
| 13542 | 14.0 | 250.00 | 4.41 | 3035 | 106 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 11.7 | 300.00 | 4.66 | 3035 | 106 | NMRV-P063/130 | NRV-P063/130 |
| 14604 | 8.8 | 400.00 | 3.43 | 3035 | 106 | NMRV-P063/130 | NRV-P063/130 |
| 13719 | 7.0 | 500.00 | 2.7 | 3035 | 106 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 5.8 | 600.00 | 2.44 | 3035 | 119 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 4.7 | 750.00 | 2 | 3035 | 132 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 3.9 | 900.00 | 1.72 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 2.9 | 1200.00 | 1.34 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 2.3 | 1500.00 | 1.13 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 15577 | 1.9 | 1800.00 | 0.98 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 14604 | 1.5 | 2400.00 | 0.72 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 13719 | 1.2 | 3000.00 | 0.57 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 13719 | 0.9 | 4000.00 | 0.46 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 13719 | 0.7 | 5000.00 | 0.4 | 3035 | 157 | NMRV-P063/130 | NRV-P063/130 |
| 12219 | 23.3 | 150.00 | 6.39 | 4047 | 89 | NMRV-P063/150 | NRV-P063/150 |
| 12907 | 17.5 | 200.00 | 5.11 | 4047 | 106 | NMRV-P063/150 | NRV-P063/150 |
| 15715 | 14.0 | 250.00 | 5.11 | 4047 | 106 | NMRV-P063/150 | NRV-P063/150 |
| 13633 | 11.7 | 300.00 | 3.68 | 4047 | 111 | NMRV-P063/150 | NRV-P063/150 |
| 22127 | 8.8 | 400.00 | 5.11 | 4047 | 106 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 7.0 | 500.00 | 4.06 | 4047 | 106 | NMRV-P063/150 | NRV-P063/150 |
| 23370 | 5.8 | 600.00 | 3.68 | 4047 | 111 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 4.7 | 750.00 | 2.77 | 4047 | 111 | NMRV-P063/150 | NRV-P063/150 |
| 18587 | 3.9 | 900.00 | 1.92 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 23631 | 2.9 | 1200.00 | 2.02 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 2.3 | 1500.00 | 1.5 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 17585 | 1.9 | 1800.00 | 1.03 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 21198 | 1.5 | 2400.00 | 1.03 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 1.2 | 3000.00 | 0.86 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 20622 | 0.9 | 4000.00 | 0.69 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |
| 19874 | 0.7 | 5000.00 | 0.58 | 4047 | 157 | NMRV-P063/150 | NRV-P063/150 |

ATTENTION!

The revised data and information, shown in this technical catalogue, replaces the data of the previous editions. Old data is now obsolete. All technical data, dimensions, weights in this catalogue are subject to changes without warning. Illustrations are not binding. You can find the above mentioned data and information on our site www.motovario.com; please periodically consult the technical documentation on the web site to be always updated about possible modifications of performances and characteristics of the product.

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