

JUDITECH

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Jiangsu Juditech Mechanical & Electrical
Technology CO.,LTD



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Jiangsu Juditech Mechanical & Electrical Technology CO.,LTD



COMPANY PROFILE

Juditech is dedicated to the R&D, manufacturing, sales, and service of motor systems, we focus on producing high-efficiency and energy-saving motors and are committed to providing high-quality motor system products and services to various industries.

With an innovative spirit and excellent quality, we have distinguished ourselves in the motor and control systems field. Our R&D team is strong and capable of providing customers with motor products and services that meet various needs. We have corresponding solutions whether it is high-efficiency permanent magnet synchronous motors, low-speed high-torque permanent magnet synchronous direct drive motors, motion servo motors, or elector-hydraulic servo motors.

On the path to excellence, we have never stopped. We have passed the ISO9001 quality management system certification, and our products have obtained international standard certifications. Our products are widely used in industrial automation, petroleum, packaging, metallurgy, paper-making, plastics, rubber, food, mining, textiles, steel, and other fields, and have won unanimous praise from domestic and foreign customers.

CORPORATE IMAGE



With continuous innovation in R&D, management, production, marketing and other domains, we believe that innovation will make JUDITECH go further and stronger!

ENTERPRISE ADVANTAGE

Permanent magnet motors have advantages such as high efficiency, high torque, and high power density. Compared to traditional induction motors, permanent magnet motors produce lower carbon emissions during production and use, which is beneficial for carbon neutrality and peak carbon emissions reduction. The cost of permanent magnet motors is gradually decreasing, and with continuous technological advancements, their performance is constantly improving, making them more cost-effective. This helps to promote the widespread application of permanent magnet motors in the market, providing more solutions for carbon neutrality and peak carbon emissions reduction.



UNIQUE ADVANTAGES

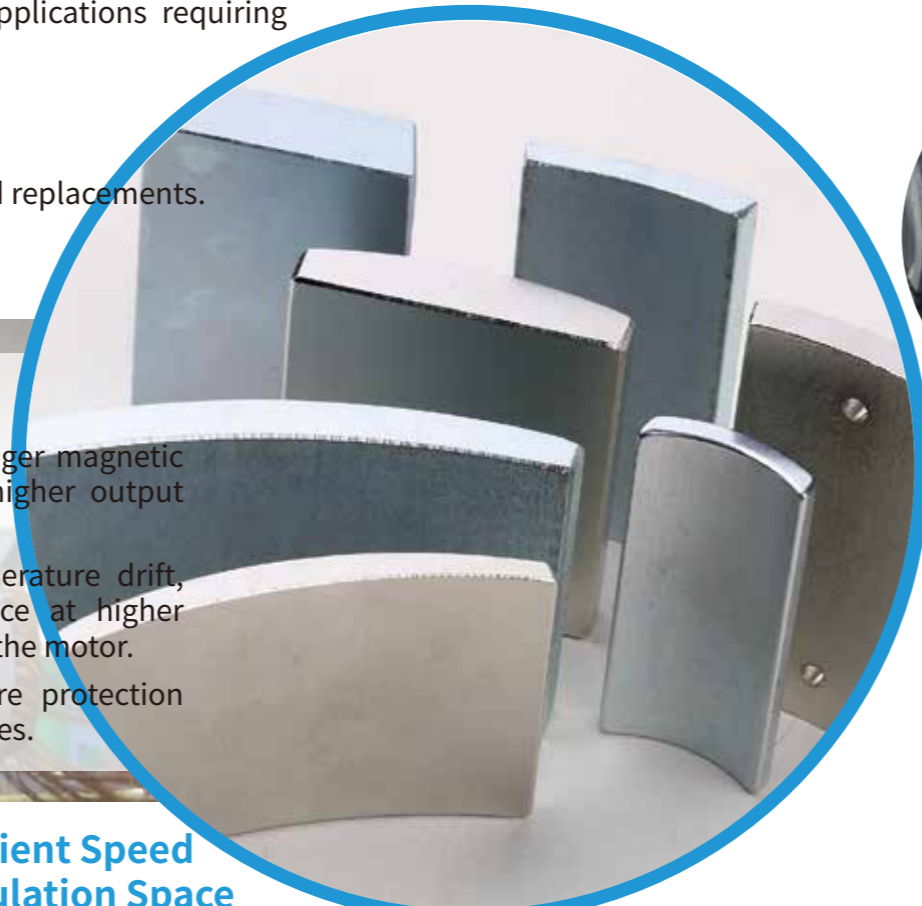
PMSM is a technological product that leads the future trends. Its design advantages are not only reflected in performance but also durability and reliability.

1. High efficiency, effectively reducing energy consumption.
2. Small size, compact structure.
3. Lightweight, convenient for transportation and installation.
4. Good speed regulation performance, suitable for applications requiring variable speed operation.
5. High reliability, ensuring long-term stable operation.
6. Strong environmental adaptability
7. Low maintenance cost, reducing the cost of repairs and replacements.



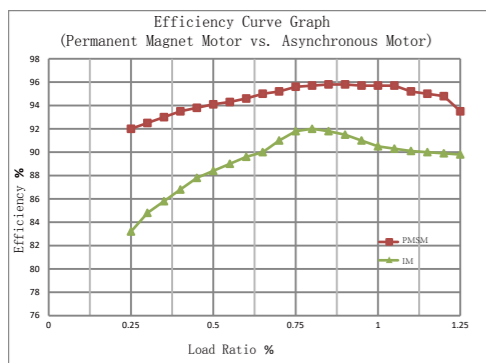
High-grade Magnetic Steel

1. High energy product, capable of generating a stronger magnetic field, enabling permanent magnet motors to have higher output power and efficiency.
2. High coercivity and resistance to magnetic temperature drift, capable of maintaining stable magnetic performance at higher temperatures, enhancing the reliability and stability of the motor.
3. Sufficient margin design and reliable temperature protection mechanism to ensure that the motor never demagnetizes.



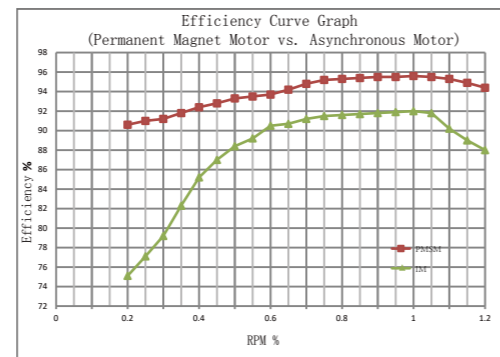
High efficiency and Energy saving

1. Synchronous motors have higher efficiency and a wider high-efficiency range.
2. Energy-saving effects are more pronounced under variable load conditions.



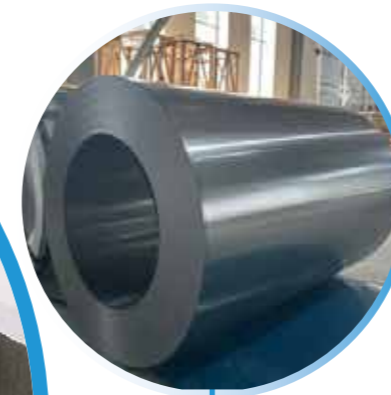
Efficient Speed Regulation Space

1. Significantly superior to asynchronous motors in motor speed control applications.



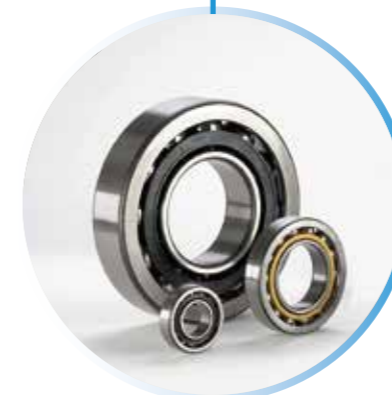
High-grade Silicon Steel

1. Improving magnetic permeability: Beneficial for magnetic field conduction, reducing hysteresis loss in the core, and enhancing motor performance.
2. Reducing eddy current loss: Good magnetic conductivity effectively reduces eddy current loss, improving motor efficiency.



International Cast Iron Motor Housing

1. With sufficient strength and rigidity to withstand mechanical loads and vibrations during motor operation, ensuring the stability and safety of the motor structure.
2. The advantages of standardized uniformity, ease of detection, strong adaptability, and high safety, can meet the needs of various industries and fields.



High-quality Bearings

1. With high rigidity and low vibration, the bearings ensure stability and smoothness during motor operation, reducing the impact of vibration on the motor.
2. With good wear resistance and long service life, the bearings can operate for a long time in various environments.

High-quality Enameled Wire

1. The insulation layer is made of high-temperature resistant materials, which can maintain good insulation performance in high-temperature environments, improving the motor's high-temperature resistance.
2. The insulation layer has high thermal conductivity, which can effectively dissipate heat and prevent the wire core from overheating.



General Purpose Permanent Magnet Synchronous Motor

PMSM is a synchronous motor that incorporates permanent magnet excitation technology to simplify the traditional electric excitation structure. With a more concise structure, more stable operation, and higher energy efficiency, it redefines the possibilities of motors.

Its operating principle is not much different from that of common electrically excited synchronous motors. However, the optimization of its structure greatly reduces the cost of processing and assembly, while also avoiding the faults that may occur with collector rings and brushes, significantly improving the reliability of the motor. What is even more remarkable is that, since there is no need for excitation current, there is also no excitation loss, which makes it more efficient.



NAMING RULES

M U 4-22D 15C 16 L-A R A N-5 N
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

| | | |
|---|--|---|
| ① Product M : Motor | ⑤ (rpm) Rated speed (Consists of two numbers and one letter) A : X1 B : X10 C : X100 D : X1000 E : X10000 For example : 15C : 1500rpm | ⑧ Installation A : IM B3 G : IM B34 N : IM V16 B : IM B5 H : IM B35 P : IM V17 C : IM B6 J : IM V1 Q : IM V18 D : IM B7 K : IM V3 R : IM V19 E : IM B8 L : IM V5 S : IM V35 F : IM B14 M : IM V6 T : IM V37 |
| ② Type U : General-purpose | ⑥ Center height 08 : 80 09 : 90 11 : 112 13 : 132 35 : 355 | ⑨ Outlet method T : Top outlet L : Left outlet R : Right outlet |
| ③ Voltage level 1 : 110V 2 : 220V 3 : 300V 4 : 380V | | ⑩ Cooling method A : IC411 (Coaxial fan cooling) F : IC416 (Independent fan cooling) L : IC86W (Water cooling) N : IC418 (Without fan) |
| ④ Rated power (W) (Consists of two numbers and one letter) A : X1 B : X10 C : X100 D : X1000 E : X10000 For example : 22D : 22KW | ⑦ Frame type S : S type M : M type L : L type | ⑪ Encoder type N : Without encoder D : Photoelectric encoder G : Rotary encoder |
| ⑫ Motor series 3 : 300 series 5 : 500 series | ⑬ Application industry N : N is for general | |

Technical Specification

| Item | Specification | | | | | |
|---------------------------|--|---|-------|-------|-------|-------|
| Power Range | 3kW ~ 400kW | | | | | |
| Frame Size | 90 ~ 355 | | | | | |
| Insulation Class | F | | | | | |
| Cooling Method | IC411 | | | | | |
| IP level | IP54 and above | | | | | |
| Duty | S1 | | | | | |
| Operating Condition | -15°C ~ 40°C, Altitude does not exceed 1000 meters, and relative humidity does not exceed 90%. | | | | | |
| Speed | 750 ~ 3000rpm | | | | | |
| Voltage | 380V | | | | | |
| Energy Efficiency | GB 30253 Energy Efficiency (Level 1); For 90kW or above, meet IE4 or higher efficiency level according to IEC60034-30-1-2014 | | | | | |
| Thermal Protection | PTC thermal protection for standard configuration | | | | | |
| Temperature | 0 ~ 40°C (non-freezing) | | | | | |
| Humidity | 20% ~ 80%RH (non-dewfall) | | | | | |
| Storage Temperature | -20°C ~ 60°C (Highest temperature guarantee: 80° C for 72 hours) | | | | | |
| Storage Humidity | 20% ~ 90%RH (non-dewfall) | | | | | |
| Altitude reduction factor | - | When used over 1000m, the cooling effect is reduced due to thin air, so the temperature may rise. | | | | |
| | Altitude | 1000m | 2000m | 3000m | 4000m | 5000m |
| Factor | 1 | 0.947 | 0.901 | 0.824 | 0.645 | |

© This series has a basic speed range of 750 to 3000 rpm, with a power range from 3 kW to 400 kW, and a power factor of 1.0. It can also derive variable frequency permanent magnet synchronous motors with a speed range of 80 to 8000 rpm.

300 SERIES PRODUCT DISPLAY

Main Specifications & Technical Data

Rated speed 3000rpm(IE4 efficiency) IE5 on request.

| Model | Frame No | Power (Kw) | Current (A) | Efficiency (%) | PF (cosφ) | Torque (Nm) | Frequency (Hz) | IP Level | NS. Class |
|---|----------|------------|-------------|----------------|-----------|-------------|----------------|----------|-----------|
| Three Phase: 380V, Rated Speed: 3000rpm | | | | | | | | | |
| MU4-15D30C11M-ATAN | 112M | 15 | 25.8 | 95.3 | 0.98 | 47.8 | 200 | IP55 | F |
| MU4-18D30C11M-ATAN | 112M | 18.5 | 31.4 | 95.6 | 0.98 | 58.9 | 200 | IP55 | F |
| MU4-22D30C13S-ATAN | 132S | 22 | 37 | 95.9 | 0.98 | 70 | 200 | IP55 | F |
| MU4-30D30C13M-ATAN | 132M | 30 | 50.2 | 96.1 | 0.98 | 95.5 | 200 | IP55 | F |
| MU4-37D30C16M-ATAN | 160M | 37 | 61.8 | 96.3 | 0.98 | 117.8 | 200 | IP55 | F |
| MU4-45D30C16M-ATAN | 160M | 45 | 75 | 96.4 | 0.98 | 143.3 | 200 | IP55 | F |
| MU4-55D30C16L-ATAN | 160L | 55 | 91.3 | 96.5 | 0.98 | 175.1 | 200 | IP55 | F |
| MU4-75D30C18L-ATAN | 180L | 75 | 124 | 96.6 | 0.98 | 238.8 | 200 | IP55 | F |
| MU4-90D30C20L-ATAN | 200L | 90 | 149 | 96.7 | 0.98 | 286.5 | 200 | IP55 | F |
| MU4-11E30C20L-ATAN | 200L | 110 | 181 | 96.7 | 0.98 | 350.2 | 200 | IP55 | F |
| MU4-13E30C22S-ATAN | 225S | 132 | 217 | 96.7 | 0.98 | 420.2 | 200 | IP55 | F |
| MU4-16E30C22M-ATAN | 225M | 160 | 263 | 96.7 | 0.98 | 509.3 | 200 | IP55 | F |
| MU4-18E30C25M-ATAN | 250M | 185 | 309 | 96.7 | 0.98 | 588.9 | 200 | IP55 | F |
| MU4-20E30C25M-ATAN | 250M | 200 | 328 | 96.7 | 0.98 | 636.7 | 200 | IP55 | F |
| MU4-22E30C25M-ATAN | 250M | 220 | 361 | 96.7 | 0.98 | 700.3 | 200 | IP55 | F |
| MU4-25E30C28M-ATAN | 280M | 250 | 410 | 96.7 | 0.98 | 795.8 | 200 | IP55 | F |
| MU4-28E30C28M-ATAN | 280M | 280 | 459 | 96.7 | 0.98 | 891.3 | 200 | IP55 | F |
| MU4-30E30C28M-ATAN | 280M | 300 | 506 | 96.7 | 0.98 | 955 | 200 | IP55 | F |
| MU4-31E30C28M-ATAN | 280M | 315 | 525 | 96.7 | 0.98 | 1002.8 | 200 | IP55 | F |
| MU4-35E30C31S-ATAN | 315S | 355 | 582 | 96.7 | 0.98 | 1130.1 | 200 | IP55 | F |
| MU4-40E30C31M-ATAN | 315M | 400 | 656 | 96.7 | 0.98 | 1273.3 | 200 | IP55 | F |

300 SERIES PRODUCT DISPLAY

Main Specifications & Technical Data

Rated speed 1500rpm(IE4 efficiency) IE5 on request.

| Model | Frame No | Power (Kw) | Current (A) | Efficiency (%) | PF (cosφ) | Torque (Nm) | Frequency (Hz) | IP Level | NS. Class |
|---|----------|------------|-------------|----------------|-----------|-------------|----------------|----------|-----------|
| Three Phase: 380V, Rated Speed: 3000rpm | | | | | | | | | |
| MU4-11D15C11M-ATAN | 112M | 11 | 19.5 | 93.6 | 0.98 | 70.0 | 100 | IP55 | F |
| MU4-15D15C13S-ATAN | 132S | 15 | 26.1 | 94.0 | 0.98 | 95.5 | 100 | IP55 | F |
| MU4-18D15C13M1-ATAN | 132M1 | 18.5 | 32.1 | 94.3 | 0.98 | 117.8 | 100 | IP55 | F |
| MU4-22D15C13M1-ATAN | 132M1 | 22 | 38 | 94.7 | 0.98 | 140.1 | 100 | IP55 | F |
| MU4-30D15C16L-ATAN | 160L | 30 | 51.7 | 95.0 | 0.98 | 191.0 | 100 | IP55 | F |
| MU4-37D15C18L-ATAN | 180L | 37 | 63.5 | 95.3 | 0.98 | 235.6 | 100 | IP55 | F |
| MU4-45D15C20L-ATAN | 200L | 45 | 77.1 | 95.6 | 0.98 | 286.5 | 100 | IP55 | F |
| MU4-55D15C20L-ATAN | 200L | 55 | 94 | 95.8 | 0.98 | 350.2 | 100 | IP55 | F |
| MU4-75D15C22S-ATAN | 225S | 75 | 124.3 | 96.0 | 0.98 | 477.5 | 100 | IP55 | F |
| MU4-90D15C22M-ATAN | 225M | 90 | 149 | 96.2 | 0.98 | 573.0 | 100 | IP55 | F |
| MU4-11E15C22M-ATAN | 225M | 110 | 182 | 96.3 | 0.98 | 700.3 | 100 | IP55 | F |
| MU4-13E15C25M-ATAN | 250M | 132 | 225 | 96.4 | 0.98 | 840.4 | 100 | IP55 | F |
| MU4-16E15C25M-ATAN | 250M | 160 | 271 | 96.6 | 0.98 | 1018.7 | 100 | IP55 | F |
| MU4-18E15C28M-ATAN | 280M | 185 | 313 | 96.7 | 0.98 | 1177.8 | 100 | IP55 | F |
| MU4-20E15C28M-ATAN | 280M | 200 | 338 | 96.7 | 0.98 | 1273.3 | 100 | IP55 | F |
| MU4-22E15C28M-ATAN | 280M | 220 | 372 | 96.7 | 0.98 | 1400.7 | 100 | IP55 | F |
| MU4-25E15C28M-ATAN | 280M | 250 | 423 | 96.7 | 0.98 | 1591.7 | 100 | IP55 | F |
| MU4-28E15C31M-ATAN | 315M | 280 | 473 | 96.7 | 0.98 | 1782.7 | 100 | IP55 | F |
| MU4-31E15C31M-ATAN | 315M | 315 | 532 | 96.7 | 0.98 | 2005.5 | 100 | IP55 | F |
| MU4-35E15C31M-ATAN | 315M | 355 | 600 | 96.7 | 0.98 | 2260.2 | 100 | IP55 | F |
| MU4-40E15C35M-ATAN | 355M | 400 | 668 | 96.7 | 0.98 | 2546.7 | 100 | IP55 | F |

300 SERIES PRODUCT DISPLAY

Main Specifications & Technical Data

Rated speed 1000rpm(IE4 efficiency) IE5 on request.

| Model | Frame No | Power (Kw) | Current (A) | Efficiency (%) | PF (cosφ) | Torque (Nm) | Frequency (Hz) | IP Level | NS. Class |
|---|----------|------------|-------------|----------------|-----------|-------------|----------------|----------|-----------|
| Three Phase: 380V, Rated Speed: 3000rpm | | | | | | | | | |
| MU4-55C10C11M-ATAN | 112M | 5.5 | 9.8 | 93.4 | 0.98 | 52.5 | 100 | IP55 | F |
| MU4-75C10C13S-ATAN | 132S | 7.5 | 13.4 | 94 | 0.98 | 71.6 | 100 | IP55 | F |
| MU4-11D10C13M-ATAN | 132M | 11 | 19.5 | 94.5 | 0.98 | 105.1 | 100 | IP55 | F |
| MU4-15D10C13M1-ATAN | 132M1 | 15 | 26.1 | 94.9 | 0.98 | 143.3 | 100 | IP55 | F |
| MU4-18D10C16L-ATAN | 160L | 18.5 | 32.1 | 95.3 | 0.98 | 176.7 | 100 | IP55 | F |
| MU4-22D10C18M-ATAN | 180M | 22 | 38 | 95.6 | 0.98 | 210.1 | 100 | IP55 | F |
| MU4-30D10C18L-ATAN | 180L | 30 | 51.7 | 95.8 | 0.98 | 286.5 | 100 | IP55 | F |
| MU4-37D10C18L-ATAN | 180L | 37 | 63.5 | 96 | 0.98 | 353.4 | 100 | IP55 | F |
| MU4-45D10C20L-ATAN | 200L | 45 | 77.1 | 96.2 | 0.98 | 429.8 | 100 | IP55 | F |
| MU4-55D10C22M-ATAN | 225M | 55 | 94 | 96.3 | 0.98 | 525.3 | 100 | IP55 | F |
| MU4-75D10C22M-ATAN | 225M | 75 | 124.3 | 96.4 | 0.98 | 716.3 | 100 | IP55 | F |
| MU4-90D10C25M-ATAN | 250M | 90 | 149 | 96.5 | 0.98 | 859.5 | 100 | IP55 | F |
| MU4-11E10C28S-ATAN | 280S | 110 | 182 | 95.8 | 0.98 | 1050.5 | 100 | IP55 | F |
| MU4-13E10C28M-ATAN | 280M | 132 | 225 | 96 | 0.98 | 1260.6 | 100 | IP55 | F |
| MU4-16E10C28M-ATAN | 280M | 160 | 271 | 96.2 | 0.98 | 1528 | 100 | IP55 | F |
| MU4-18E10C31S-ATAN | 315S | 185 | 313 | 96.3 | 0.98 | 1766.8 | 100 | IP55 | F |
| MU4-20E10C31S-ATAN | 315S | 200 | 338 | 96.3 | 0.98 | 1910 | 100 | IP55 | F |
| MU4-22E10C31M-ATAN | 315M | 220 | 372 | 96.3 | 0.98 | 2101 | 100 | IP55 | F |
| MU4-25E10C31M-ATAN | 315M | 250 | 423 | 96.5 | 0.98 | 2387.5 | 100 | IP55 | F |
| MU4-28E10C31M-ATAN | 315M | 280 | 473 | 96.6 | 0.98 | 2674 | 100 | IP55 | F |
| MU4-31E10C31L-ATAN | 315L | 315 | 532 | 96.7 | 0.98 | 3008.2 | 100 | IP55 | F |

300 SERIES PRODUCT DISPLAY

Main Specifications & Technical Data

Rated speed 750rpm(IE4 efficiency) IE5 on request.

| Model | Frame No | Power (Kw) | Current (A) | Efficiency (%) | PF (cosφ) | Torque (Nm) | Frequency (Hz) | IP Level | NS. Class |
|---|----------|------------|-------------|----------------|-----------|-------------|----------------|----------|-----------|
| Three Phase: 380V, Rated Speed: 3000rpm | | | | | | | | | |
| MU4-40C75B11M-ATAN | 112M | 4 | 7.2 | 90.2 | 0.98 | 50.9 | 75 | IP54 | F |
| MU4-55C75B11M-ATAN | 112M | 5.5 | 9.8 | 90.9 | 0.98 | 70.0 | 75 | IP55 | F |
| MU4-75C75B13M-ATAN | 132M | 7.5 | 13.4 | 91.5 | 0.98 | 95.5 | 75 | IP55 | F |
| MU4-11D75B13M1-ATAN | 132M1 | 11 | 19.5 | 92.7 | 0.98 | 140.1 | 75 | IP55 | F |
| MU4-15D75B16L-ATAN | 160L | 15 | 26.1 | 93.3 | 0.98 | 191.0 | 75 | IP55 | F |
| MU4-18D75B18M-ATAN | 180M | 18.5 | 32.1 | 94 | 0.98 | 235.6 | 75 | IP55 | F |
| MU4-22D75B18L-ATAN | 180L | 22 | 38 | 94.5 | 0.98 | 280.1 | 75 | IP55 | F |
| MU4-30D75B20L-ATAN | 200L | 30 | 51.7 | 94.7 | 0.98 | 382 | 75 | IP55 | F |
| MU4-37D75B22S-ATAN | 225S | 37 | 63.5 | 95 | 0.98 | 471.1 | 75 | IP55 | F |
| MU4-45D75B22M-ATAN | 225M | 45 | 77.1 | 95.2 | 0.98 | 573 | 75 | IP55 | F |
| MU4-55D75B25M-ATAN | 250M | 55 | 94 | 95.4 | 0.98 | 700.3 | 75 | IP55 | F |
| MU4-75D75B25M-ATAN | 250M | 75 | 124.3 | 95.6 | 0.98 | 955 | 75 | IP55 | F |
| MU4-90D75B28S-ATAN | 280S | 90 | 149 | 95.6 | 0.98 | 1146 | 75 | IP55 | F |
| MU4-11E75B28M-ATAN | 280M | 110 | 182 | 95.6 | 0.98 | 1400.7 | 75 | IP55 | F |
| MU4-13E75B28M-ATAN | 280M | 132 | 225 | 95.6 | 0.98 | 1680.8 | 75 | IP55 | F |
| MU4-16E75B31S-ATAN | 315S | 160 | 271 | 95.6 | 0.98 | 2037.3 | 75 | IP55 | F |
| MU4-18E75B31S-ATAN | 315S | 185 | 313 | 95.6 | 0.98 | 2355.7 | 75 | IP55 | F |
| MU4-20E75B31M-ATAN | 315M | 200 | 338 | 95.6 | 0.98 | 2546.7 | 75 | IP55 | F |
| MU4-22E75B31L-ATAN | 315L | 220 | 372 | 95.6 | 0.98 | 2801.3 | 75 | IP55 | F |
| MU4-25E75B35M-ATAN | 355M | 250 | 423 | 95.6 | 0.98 | 3183.3 | 75 | IP55 | F |
| MU4-28E75B35M-ATAN | 355M | 280 | 473 | 96.6 | 0.98 | 3565 | 100 | IP55 | F |
| MU4-31E75B35L-ATAN | 355L | 315 | 532 | 96.7 | 0.98 | 4011 | 100 | IP55 | F |

500 SERIES PRODUCT DISPLAY

Main Specifications & Technical Data

Rated speed 3000rpm(IE4 efficiency) IE5 on request.

| Model | Frame No | Power (Kw) | Current (A) | Efficiency (%) | PF (cosφ) | Torque (Nm) | Frequency (Hz) | IP Level | NS. Class |
|---|----------|------------|-------------|----------------|-----------|-------------|----------------|----------|-----------|
| Three Phase: 380V, Rated Speed: 3000rpm | | | | | | | | | |
| MU4-11D30C11M-ATAN | 112M | 11 | 18.8 | 95.0 | 0.98 | 35 | 200 | IP55 | F |
| MU4-15D30C11M-ATAN | 112M | 15 | 25.8 | 95.3 | 0.98 | 47.8 | 200 | IP55 | F |
| MU4-18D30C13S-ATAN | 132S | 18.5 | 31.4 | 95.6 | 0.98 | 58.9 | 200 | IP55 | F |
| MU4-22D30C13M-ATAN | 132M | 22 | 37 | 95.9 | 0.98 | 70 | 200 | IP55 | F |
| MU4-30D30C16M-ATAN | 160M | 30 | 50.2 | 96.1 | 0.98 | 95.5 | 200 | IP55 | F |
| MU4-37D30C16M-ATAN | 160M | 37 | 61.8 | 96.3 | 0.98 | 117.8 | 200 | IP55 | F |
| MU4-45D30C16L-ATAN | 160L | 45 | 75 | 96.4 | 0.98 | 143.3 | 200 | IP55 | F |
| MU4-55D30C18L-ATAN | 180L | 55 | 91.3 | 96.5 | 0.98 | 175.1 | 200 | IP55 | F |
| MU4-75D30C20L-ATAN | 200L | 75 | 124 | 96.6 | 0.98 | 238.8 | 200 | IP55 | F |
| MU4-90D30C20L-ATAN | 200L | 90 | 149 | 96.7 | 0.98 | 286.5 | 200 | IP55 | F |
| MU4-11E30C22S-ATAN | 225S | 110 | 181 | 96.7 | 0.98 | 350.2 | 200 | IP55 | F |
| MU4-13E30C22M-ATAN | 225M | 132 | 217 | 96.7 | 0.98 | 420.2 | 200 | IP55 | F |
| MU4-16E30C25M-ATAN | 250M | 160 | 263 | 96.7 | 0.98 | 509.3 | 200 | IP55 | F |
| MU4-18E30C25M-ATAN | 250M | 185 | 309 | 96.7 | 0.98 | 588.9 | 200 | IP55 | F |
| MU4-20E30C25M-ATAN | 250M | 200 | 328 | 96.7 | 0.98 | 636.7 | 200 | IP55 | F |
| MU4-22E30C28M-ATAN | 280M | 220 | 361 | 96.7 | 0.98 | 700.3 | 200 | IP55 | F |
| MU4-25E30C28M-ATAN | 280M | 250 | 410 | 96.7 | 0.98 | 795.8 | 200 | IP55 | F |
| MU4-28E30C28M-ATAN | 280M | 280 | 459 | 96.7 | 0.98 | 891.3 | 200 | IP55 | F |
| MU4-30E30C28M-ATAN | 280M | 300 | 506 | 96.7 | 0.98 | 955 | 200 | IP55 | F |
| MU4-31E30C31S-ATAN | 315S | 315 | 525 | 96.7 | 0.98 | 1002.8 | 200 | IP55 | F |
| MU4-35E30C31M-ATAN | 315M | 355 | 582 | 96.7 | 0.98 | 1130.1 | 200 | IP55 | F |
| MU4-40E30C31L-ATAN | 315L | 400 | 656 | 96.7 | 0.98 | 1273.3 | 200 | IP55 | F |

500 SERIES PRODUCT DISPLAY

Main Specifications & Technical Data

Rated speed 1500rpm(IE4 efficiency) IE5 on request.

| Model | Frame No | Power (Kw) | Current (A) | Efficiency (%) | PF (cosφ) | Torque (Nm) | Frequency (Hz) | IP Level | NS. Class |
|---|----------|------------|-------------|----------------|-----------|-------------|----------------|----------|-----------|
| Three Phase: 380V, Rated Speed: 3000rpm | | | | | | | | | |
| MU4-75C15C11M-ATAN | 112M | 7.5 | 13.4 | 92.6 | 0.98 | 47.8 | 100 | IP55 | F |
| MU4-11D15C13S-ATAN | 132S | 11 | 19.5 | 93.6 | 0.98 | 70.0 | 100 | IP55 | F |
| MU4-15D15C13M1-ATAN | 132M1 | 15 | 26.1 | 94.0 | 0.98 | 95.5 | 100 | IP55 | F |
| MU4-18D15C13M1-ATAN | 132M1 | 18.5 | 32.1 | 94.3 | 0.98 | 117.8 | 100 | IP55 | F |
| MU4-22D15C16L-ATAN | 160L | 22 | 38 | 94.7 | 0.98 | 140.1 | 100 | IP55 | F |
| MU4-30D15C18M-ATAN | 180L | 30 | 51.7 | 95.0 | 0.98 | 191.0 | 100 | IP55 | F |
| MU4-37D15C20L-ATAN | 200L | 37 | 63.5 | 95.3 | 0.98 | 235.6 | 100 | IP55 | F |
| MU4-45D15C20L-ATAN | 200L | 45 | 77.1 | 95.6 | 0.98 | 286.5 | 100 | IP55 | F |
| MU4-55D15C22S-ATAN | 225S | 55 | 94 | 95.8 | 0.98 | 350.2 | 100 | IP55 | F |
| MU4-75D15C22M-ATAN | 225M | 75 | 124.3 | 96.0 | 0.98 | 477.5 | 100 | IP55 | F |
| MU4-90D15C22M-ATAN | 225M | 90 | 149 | 96.2 | 0.98 | 573.0 | 100 | IP55 | F |
| MU4-11E15C25M-ATAN | 250M | 110 | 182 | 96.3 | 0.98 | 700.3 | 100 | IP55 | F |
| MU4-13E15C25M-ATAN | 250M | 132 | 225 | 96.4 | 0.98 | 840.4 | 100 | IP55 | F |
| MU4-16E15C28M-ATAN | 280M | 160 | 271 | 96.6 | 0.98 | 1018.7 | 100 | IP55 | F |
| MU4-18E15C28M-ATAN | 280M | 185 | 313 | 96.7 | 0.98 | 1177.8 | 100 | IP55 | F |
| MU4-20E15C28M-ATAN | 280M | 200 | 338 | 96.7 | 0.98 | 1273.3 | 100 | IP55 | F |
| MU4-22E15C28M-ATAN | 280M | 220 | 372 | 96.7 | 0.98 | 1400.7 | 100 | IP55 | F |
| MU4-25E15C31M-ATAN | 315M | 250 | 423 | 96.7 | 0.98 | 1591.7 | 100 | IP55 | F |
| MU4-28E15C31M-ATAN | 315M | 280 | 473 | 96.7 | 0.98 | 1782.7 | 100 | IP55 | F |
| MU4-31E15C31M-ATAN | 315M | 315 | 532 | 96.7 | 0.98 | 2005.5 | 100 | IP55 | F |
| MU4-35E15C35M-ATAN | 355M | 355 | 600 | 96.7 | 0.98 | 2260.2 | 100 | IP55 | F |
| MU4-40E15C35M-ATAN | 355M | 400 | 668 | 96.7 | 0.98 | 2546.7 | 100 | IP55 | F |

500 SERIES PRODUCT DISPLAY

Main Specifications & Technical Data

Rated speed 1000rpm(IE4 efficiency) IE5 on request.

| Model | Frame No | Power (Kw) | Current (A) | Efficiency (%) | PF (cosφ) | Torque (Nm) | Frequency (Hz) | IP Level | NS. Class |
|---|----------|------------|-------------|----------------|-----------|-------------|----------------|----------|-----------|
| Three Phase: 380V, Rated Speed: 3000rpm | | | | | | | | | |
| MU4-40C10C11M-ATAN | 112M | 4 | 7.2 | 92.7 | 0.98 | 38.2 | 66.7 | IP54 | F |
| MU4-55C10C13S-ATAN | 132S | 5.5 | 9.8 | 93.4 | 0.98 | 52.5 | 100 | IP55 | F |
| MU4-75C10C13M-ATAN | 132M | 7.5 | 13.4 | 94 | 0.98 | 71.6 | 100 | IP55 | F |
| MU4-11D10C13M1-ATAN | 132M1 | 11 | 19.5 | 94.5 | 0.98 | 105.1 | 100 | IP55 | F |
| MU4-15D10C16L-ATAN | 160L | 15 | 26.1 | 94.9 | 0.98 | 143.3 | 100 | IP55 | F |
| MU4-18D10C18M-ATAN | 180M | 18.5 | 32.1 | 95.3 | 0.98 | 176.7 | 100 | IP55 | F |
| MU4-22D10C18L-ATAN | 180L | 22 | 38 | 95.6 | 0.98 | 210.1 | 100 | IP55 | F |
| MU4-30D10C18L-ATAN | 180L | 30 | 51.7 | 95.8 | 0.98 | 286.5 | 100 | IP55 | F |
| MU4-37D10C20L-ATAN | 200L | 37 | 63.5 | 96 | 0.98 | 353.4 | 100 | IP55 | F |
| MU4-45D10C22M-ATAN | 225M | 45 | 77.1 | 96.2 | 0.98 | 429.8 | 100 | IP55 | F |
| MU4-55D10C22M-ATAN | 225M | 55 | 94 | 96.3 | 0.98 | 525.3 | 100 | IP55 | F |
| MU4-75D10C25M-ATAN | 250M | 75 | 124.3 | 96.4 | 0.98 | 716.3 | 100 | IP55 | F |
| MU4-90D10C28S-ATAN | 280S | 90 | 149 | 96.5 | 0.98 | 859.5 | 100 | IP55 | F |
| MU4-11E10C28M-ATAN | 280M | 110 | 182 | 95.8 | 0.98 | 1050.5 | 100 | IP55 | F |
| MU4-13E10C28M-ATAN | 280M | 132 | 225 | 96 | 0.98 | 1260.6 | 100 | IP55 | F |
| MU4-16E10C31S-ATAN | 315S | 160 | 271 | 96.2 | 0.98 | 1528 | 100 | IP55 | F |
| MU4-18E10C31S-ATAN | 315S | 185 | 313 | 96.3 | 0.98 | 1766.8 | 100 | IP55 | F |
| MU4-20E10C31M-ATAN | 315M | 200 | 338 | 96.3 | 0.98 | 1910 | 100 | IP55 | F |
| MU4-22E10C31M-ATAN | 315M | 220 | 372 | 96.3 | 0.98 | 2101 | 100 | IP55 | F |
| MU4-25E10C31M-ATAN | 315M | 250 | 423 | 96.5 | 0.98 | 2387.5 | 100 | IP55 | F |
| MU4-28E10C31L-ATAN | 315L | 280 | 473 | 96.6 | 0.98 | 2674 | 100 | IP55 | F |
| MU4-31E10C35M-ATAN | 355M | 315 | 532 | 96.6 | 0.98 | 3008 | 100 | IP55 | F |

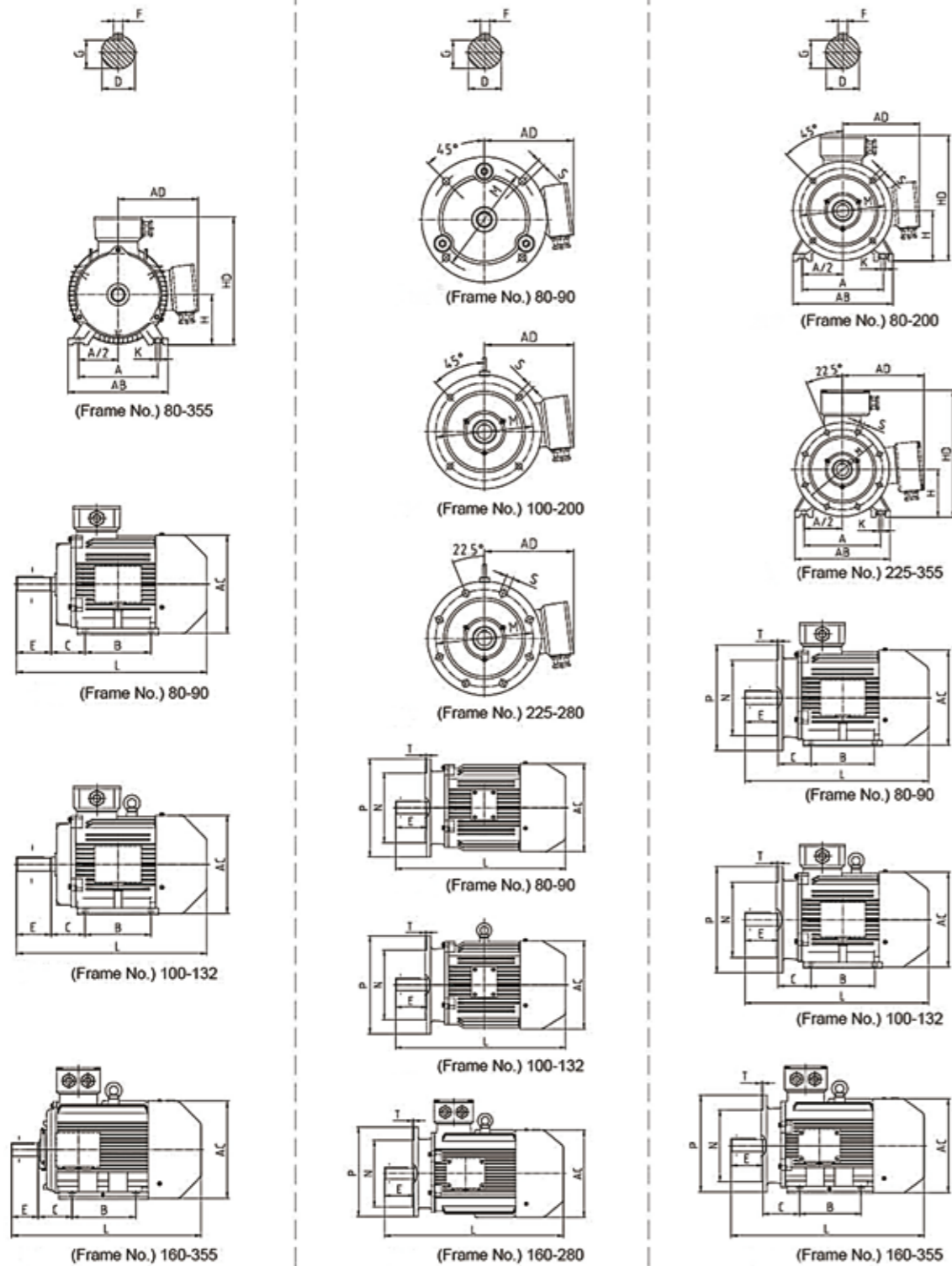
500 SERIES PRODUCT DISPLAY

Main Specifications & Technical Data

Rated speed 750rpm(IE4 efficiency) IE5 on request.

| Model | Frame No | Power (Kw) | Current (A) | Efficiency (%) | PF (cosφ) | Torque (Nm) | Frequency (Hz) | IP Level | NS. Class |
|---|----------|------------|-------------|----------------|-----------|-------------|----------------|----------|-----------|
| Three Phase: 380V, Rated Speed: 3000rpm | | | | | | | | | |
| MU4-30C75B11M-ATAN | 112M | 3 | 5.4 | 89.0 | 0.98 | 38.2 | 75 | IP54 | F |
| MU4-40C75B11M-ATAN | 112M | 4 | 7.2 | 90.2 | 0.98 | 50.9 | 75 | IP54 | F |
| MU4-55C75B13M-ATAN | 132M | 5.5 | 9.8 | 90.9 | 0.98 | 70.0 | 75 | IP55 | F |
| MU4-75C75B13M1-ATAN | 132M1 | 7.5 | 13.4 | 91.5 | 0.98 | 95.5 | 75 | IP55 | F |
| MU4-11D75B16L-ATAN | 160L | 11 | 19.5 | 92.7 | 0.98 | 140.1 | 75 | IP55 | F |
| MU4-15D75B18M-ATAN | 180M | 15 | 26.1 | 93.3 | 0.98 | 191.0 | 75 | IP55 | F |
| MU4-18D75B18L-ATAN | 180L | 18.5 | 32.1 | 94 | 0.98 | 235.6 | 75 | IP55 | F |
| MU4-22D75B20L-ATAN | 200L | 22 | 38 | 94.5 | 0.98 | 280.1 | 75 | IP55 | F |
| MU4-30D75B22S-ATAN | 225S | 30 | 51.7 | 94.7 | 0.98 | 382 | 75 | IP55 | F |
| MU4-37D75B22M-ATAN | 225M | 37 | 63.5 | 95 | 0.98 | 471.1 | 75 | IP55 | F |
| MU4-45D75B25M-ATAN | 250M | 45 | 77.1 | 95.2 | 0.98 | 573 | 75 | IP55 | F |
| MU4-55D75B25M-ATAN | 250M | 55 | 94 | 95.4 | 0.98 | 700.3 | 75 | IP55 | F |
| MU4-75D75B28S-ATAN | 280S | 75 | 124.3 | 95.6 | 0.98 | 955 | 75 | IP55 | F |
| MU4-90D75B28M-ATAN | 280M | 90 | 149 | 95.6 | 0.98 | 1146 | 75 | IP55 | F |
| MU4-11E75B28M-ATAN | 280M | 110 | 182 | 95.6 | 0.98 | 1400.7 | 75 | IP55 | F |
| MU4-13E75B31S-ATAN | 315S | 132 | 225 | 95.6 | 0.98 | 1680.8 | 75 | IP55 | F |
| MU4-16E75B31S-ATAN | 315S | 160 | 271 | 95.6 | 0.98 | 2037.3 | 75 | IP55 | F |
| MU4-18E75B31M-ATAN | 315M | 185 | 313 | 95.6 | 0.98 | 2355.7 | 75 | IP55 | F |
| MU4-20E75B31L-ATAN | 315L | 200 | 338 | 95.6 | 0.98 | 2546.7 | 75 | IP55 | F |
| MU4-22E75B35M-ATAN | 355M | 220 | 372 | 95.6 | 0.98 | 2801.3 | 75 | IP55 | F |
| MU4-25E75B35M-ATAN | 355M | 250 | 423 | 95.6 | 0.98 | 3183.3 | 75 | IP55 | F |
| MU4-31E75B35L-ATAN | 355L | 315 | 532 | 95.6 | 0.98 | 4011 | 75 | IP55 | F |

OUTLINE AND MOUNTING DIMENSIONS



OUTLINE AND MOUNTING DIMENSIONS

| Frame No | Installation dimensions | | | | | | | | | | | | | | | | | Outline dimensions | | | | | |
|----------|-------------------------|-------|-----|------|--------|--------|-------|-------|-----|------|------|-----|-----|------|------|-------|-------------|--------------------|-----|-----|-----|------|-----|
| | A | A/2 | B | C | D | E | F | G | H | K | M | N | P | R | S | T | Hole number | AB | AC | AD | HD | L | |
| 90S | 140 | 70 | 100 | 56 | 24 | 50 | ±0.31 | 20 | 90 | 10 | 165 | 130 | 200 | ±1.5 | 12 | φ 3.5 | 4 | 180 | 195 | 155 | 250 | 320 | |
| 90L | | | 125 | ±1.5 | | ±0.009 | | | | | | | | | | | | | | | | 345 | |
| 100L | 160 | 80 | 63 | ±1.5 | ±0.004 | 60 | | 8 | 100 | | 215 | 180 | 250 | | | | | 205 | 215 | 180 | 270 | 385 | |
| 112M | 190 | 95 | 140 | 70 | 28 | | | 0.036 | 112 | 12 | | | | ±2.0 | ±0.4 | 0 | | 230 | 240 | 190 | 300 | 400 | |
| 132S | 216 | 108 | 89 | ±2.0 | 38 | 80 | ±0.37 | | 132 | | 265 | 230 | 300 | | | | | 270 | 275 | 210 | 345 | 470 | |
| 132M | | | 178 | | | | | | | | | | | | | | | | | | | 510 | |
| 160M | 254 | 127 | 210 | 108 | 42 | ±0.018 | | | 160 | -0.5 | | | 350 | | | | | 320 | 330 | 255 | 420 | 615 | |
| 160L | | | 254 | | ±0.002 | | | | | | 14.5 | 300 | 250 | 350 | | | | | | | | 670 | |
| 180M | 279 | 139.5 | 241 | 121 | ±3.0 | 48 | ±0.43 | 110 | 180 | | 300 | 250 | 350 | ±3.0 | | | | 355 | 380 | 280 | 455 | 700 | |
| 180L | | | 279 | | | | | | | | | | | | | | | | | | | 740 | |
| 200L | 318 | 159 | 305 | 133 | 55 | | | 16 | 200 | | 350 | 300 | 400 | 0 | | | | 395 | 420 | 310 | 505 | 785 | |
| 225S | 356 | 178 | 286 | 149 | ±4.0 | 60 | ±0.50 | 140 | 225 | 18.5 | 400 | 350 | 450 | | | | | 8 | 435 | 470 | 335 | 560 | 820 |
| 225M | | | 311 | | | | | | | | | | | | | | | | | | | 845 | |
| 250M | 406 | 203 | 349 | 168 | 65 | ±0.030 | | 18 | 250 | 0 | 500 | 450 | 550 | | | | | | | | | 920 | |
| 280S | 457 | 228.5 | 368 | 190 | ±4.0 | 75 | ±0.50 | 140 | 280 | 24 | 500 | 450 | 550 | ±4.0 | ±0.5 | φ 1.2 | 5 | 0 | 490 | 510 | 370 | 615 | 920 |
| 280M | | | 419 | | | | | 20 | | | | | | | | | | | | | | 990 | |
| 315S | | | 406 | | | | | | | | | | | | | | | | | | | 1040 | |
| 315M | 508 | 254 | 457 | 216 | 80 | ±0.030 | | 22 | 315 | 0 | 600 | 550 | 660 | | | | | | | | | 1240 | |
| 315L | | | 508 | ±4.0 | 170 | ±0.50 | | 0.052 | | -1.0 | 28 | | | | | | | | | | | 1350 | |
| 355M | 610 | 305 | 560 | 254 | 95 | ±0.035 | | 25 | 355 | | 740 | 680 | 800 | | | | | | | | | 1350 | |
| 355L | | | 630 | | ±0.013 | | | | | | | | | | | | | | | | | 1530 | |

Note: The dimension R is the distance from the flange mating surface to the shaft shoulder.



Permanent Magnet Synchronous Direct Drive Motor

The permanent magnet synchronous direct drive motor is an advanced driving method, characterized by the use of permanent magnets to generate a magnetic field, which interacts with the current on the rotor, thus efficiently converting electrical energy into mechanical energy. Compared to traditional motors, permanent magnet synchronous direct drive motors have higher efficiency and reliability, while also reducing noise and vibration.

With the design of using permanent magnets directly on the rotor, this type of motor can achieve higher torque density and lower energy consumption. In addition, by eliminating the energy loss and noise brought by gear transmission in traditional motors, the operating efficiency of permanent magnet synchronous direct drive motors is higher, with faster response speed and longer service life.

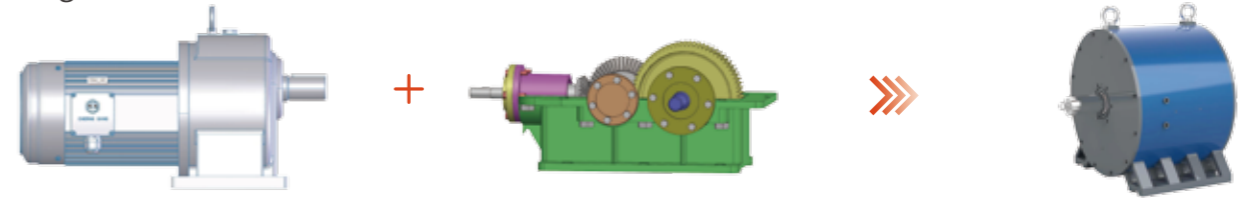
100% **Exclusive customization**
Provide exclusive customized solutions based on customer needs and equipment characteristics, jointly creating a new industry benchmark.

Energy-saving and efficient
The power transmission is newly upgraded, and the intermediate transmission link is eliminated. The comprehensive system energy-saving rate reaches **25%**

200% **Super torque output**
Super torque output, with a starting torque of over 200%.

Drive upgrade

Replace the transmission scheme (traditional asynchronous motor + large gear ratio reducer) with direct drive to improve system transmission efficiency and achieve energy saving and emission reduction.



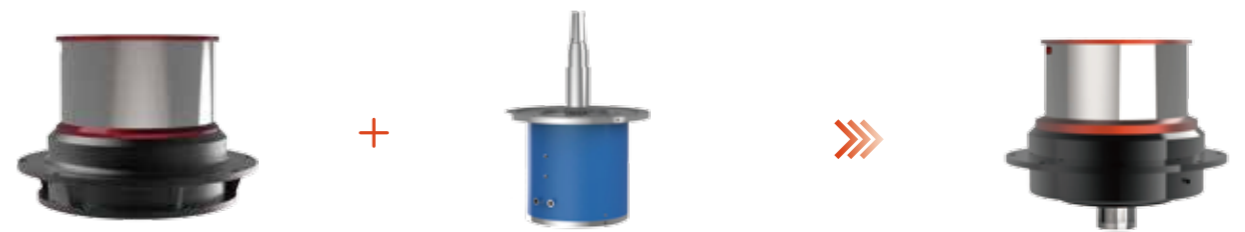
Energy-saving and efficient

Stronger torque output capability, wider efficient range, easier installation and maintenance, and more significant system energy saving.



Customization

Optimize the mechanical structure of the equipment according to its structural characteristics, achieve drive innovation, and maximize system transmission efficiency.



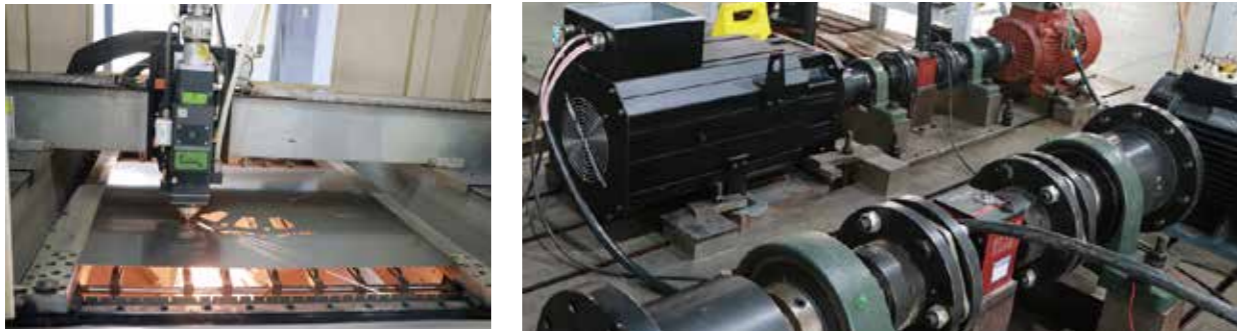
Certification

Full range CE certification, Full range GB30253 Level 1 energy efficiency certification



WORKSHOP

APPLICATION



Create high-quality products.
Provide superior technology
and excellent service.
We have been working hard!

