



ZHEJIANG HAIBEI MACHINERY & ELECTRIC CO.,LTD.



Address: No. 318, West Xingpan Road, Daxi, Wenling, Zhejiang, China.

PC: 317525

Email: admin@happypump.com

Tel: +86-576-86305888

Fax: +86-576-86338978

www.happypump.com

Professional
manufacturer of motors



HAPPY



Products shall be subject to any changes without additional notices.



Everybody is responsible for environmental protection, sustainable development!

2026.4

ZHEJIANG HAIBEI
MACHINERY & ELECTRIC
CO.,LTD.



35
Years

100
Countries

210,000^{m²}
Area

\$ 100
Millions



Company Profile

Zhejiang Haobei Machinery & Electric Co.,Ltd. (hereinafter referred to as the "Happy" or "Company") was established in 1990 and is located in Daxi Town, Wenling City, Zhejiang Province, known as the "Hometown of Water Pumps" in China. The Company specializes in the production of medium-to high-end water pumps and motors, and, with its accumulated valuable experience and spirit of continuous innovation, has become a leader in the industry. **HAPPY**® have gained wide recognition and praise from users in both domestic and international markets due to their excellent and reliable quality and innovative concepts.

The Company covers an area of 55,000 square meters, with a building area of 210,000 square meters, and employs over 800 people, including more than 200 personnel in new product research and development. The Company has formed a high-level talent team with a reasonable structure, strong innovation capabilities, and solid professional qualifications, providing strong human and intellectual support for the Company's sustainable development. The product range includes 11 major series, covering more than 500 specifications, such as vortex pumps, centrifugal pumps, jet pumps, motors garden pumps, submersible pumps, deep well pumps, swimming pool pumps, permanent magnet variable frequency constant-pressure pumps, standard pumps, intelligent pumps and more. Up to now, the Company's annual sales volume has reached 5 million water pumps, and the Company continues to grow at an annual rate exceeding 20%. Its products are exported to over 100 countries and regions.

Looking to the future, Happy will continue to uphold the business philosophy of "high quality, high efficiency and high service", focus on survival through quality and development through diversity, and remain steadfast in following the path of innovation-driven, green & low-carbon and high-quality development. The Company aims to build an intelligent and green factory, deepen the collaborative innovation mechanism of industry, academia, research and application, expand applications in high-end markets, further strengthen investment in technological R&D, and enhance the level of industry chain coordination. Happy Pump is committed to becoming a world-class industry enterprise with global competitiveness.

Smart production

The company has introduced advanced production equipment, automatic assembly production lines and painting lines from Japan and Germany.

Creating the ultimate pump products is our pursuit and goal!

A balance is sought between performance and structure, with high-quality materials and exquisite craftsmanship.

Strive to bring high-quality and high-stability experience to every user.





1990

The company was founded

In 1990, Wenling No. 3 Screw Pump Factory was established
In 1997, Taizhou Happy Pump Industry Co., Ltd. was established

2017

In 2017, it was changed to
Zhejiang Happy Pump Industry Co, Ltd.



Struggling with boats
and setting sail to create
bright future

Constantly pioneering and innovating
Become a leading enterprise in the field of civil
water pump segmentation



2004

In 2004, it participated in foreign exhibitions
for the first time
It marks the beginning of Happy pump
products to the world



2020

In 2020, we will begin to increase technological transformation,
purchase advanced automated production lines, and build digital workshops.



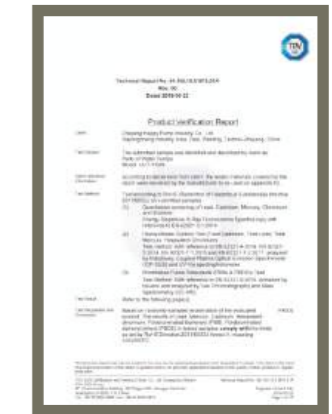
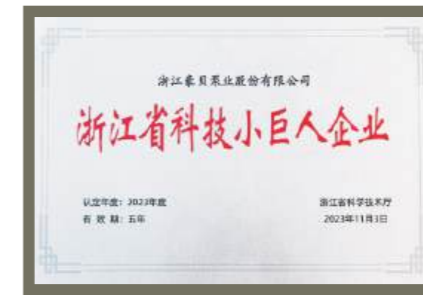
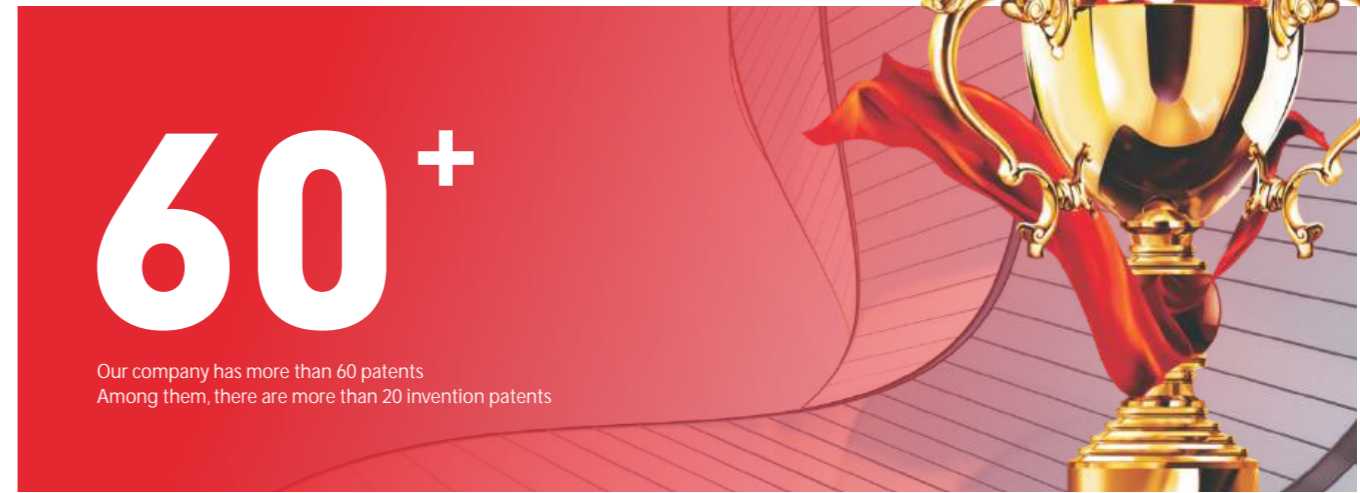
HONORARY QUALIFICATIONS



Advanced equipment, professional technology and strict management have created the high quality of "Happy" brand products.

It has successively won dozens of honors such as National High-tech Enterprise, National Specialized and New Little Giant Enterprise, Zhejiang Science and Technology Little Giant Enterprise, and Zhejiang Export Famous Brand.

"Happy" products are your reliable choice.



Working system

| | | |
|-----------|-----------------|---|
| S1 | Continuous Duty | Operating time at rated load is sufficient to achieve thermal stability. |
| S2 | Continuous Duty | Running at a given time under a constant load, the time is not enough to achieve thermal stability. Then turn off the power to cool the motor temperature and make sure the difference with the cooling medium is within 2k. |
| S3 | Continuous Duty | According to a series of the same cycle of operation, each cycle includes a constant load operation time and a breakdown time. The starting current of each cycle in this system has no significant effect on temperature rise. |
| S4 | Continuous Duty | According to a series of the same cycle of operation, each cycle includes a period of starting time which has a significant influence on temperature rise, a period of running time with constant load and a period of breakdown time. |
| S5 | Continuous Duty | According to a series of the same cycle of operation, each cycle includes a period of starting time, a period of constant load running time, a period of rapid electric braking time and a period of breakdown time. |
| S6 | Continuous Duty | According to a series of the same cycle of operation, each cycle includes a period of constant load running time and a period of no-load running time, but there is no off period. |
| S7 | Continuous Duty | According to a series of the same cycle of operation, each cycle includes a period of starting time, a period of constant load running time and a period of rapid electric braking time, but there is no off period. |
| S8 | Continuous Duty | According to a series of the same cycle of operation, each cycle includes a period of running time under a constant load at a predetermined speed, and a period or periods of running time under other constant loads at different speeds, but here is no off period. |

Mechanical features

HOUSING, END SHIELDS AND FLANGES

Materials of frames, covers and flanges used in HAPPY are summarized in the following table

| Frame Size | Housings | Covers | B5 | Flanges B14 ST | B14 Special |
|---|------------------------|------------------------|------------------------|------------------------|-------------|
| 63 71 80 90 100 112 | Aluminum | Aluminum | Aluminum | Aluminum | Cast Iron |
| 132 | Aluminium or cast iron | Aluminium or cast iron | Aluminium or cast iron | Aluminium or cast iron | Cast Iron |
| 160 180 200 225 250 280 315 | Cast Iron | Cast Iron | Cast Iron | — | — |

Construction and mounting type

| Construction type | With feet and without flange on the endshield(DE) | | | | | |
|-------------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mounting type | IM B3 FS80-355 | IM B6 FS80-160 | IM B7 FS80-160 | IM B8 FS80-160 | IM V5 FS80-225 | IM V6 FS80-225 |
| Diagram | | | | | | |

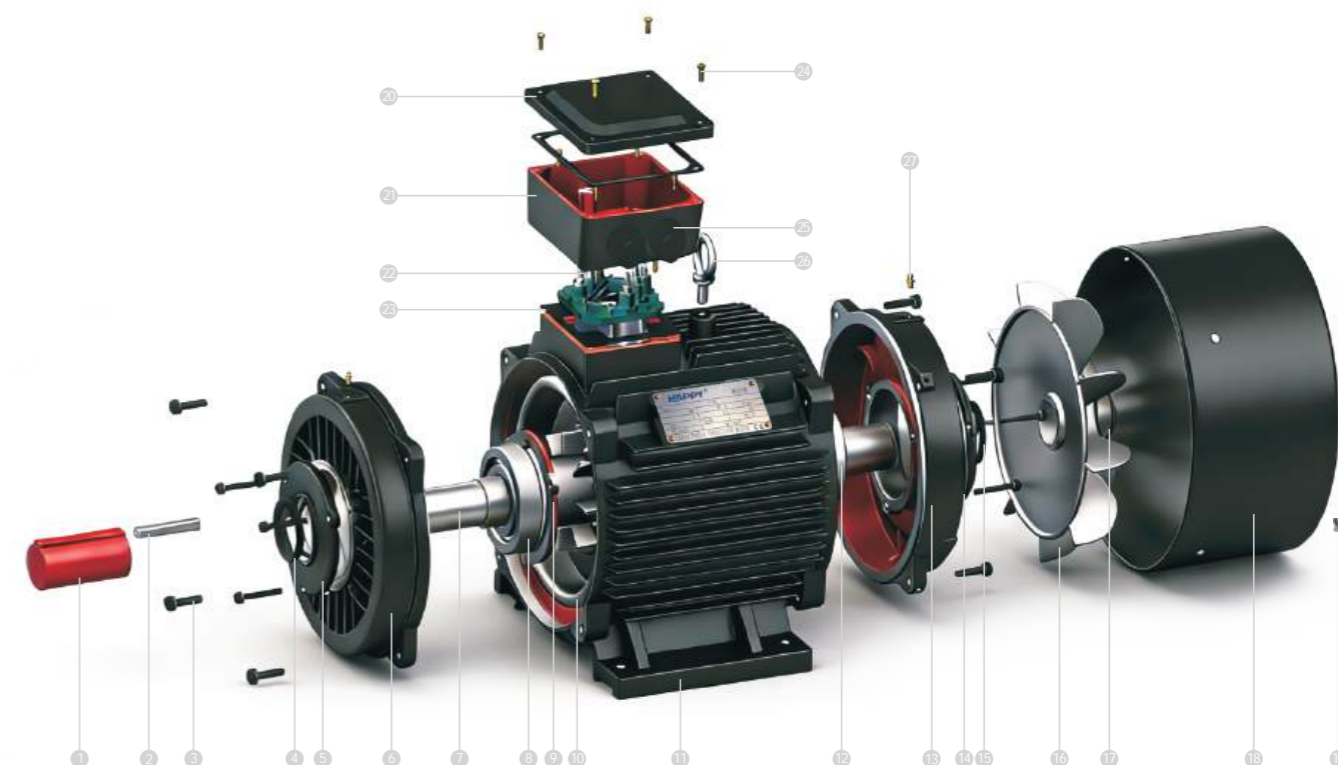
| Construction type | With feet and without flange on the endshield(DE) | | | | | |
|-------------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mounting type | IM B3 FS80-355 | IM B6 FS80-160 | IM B7 FS80-160 | IM B8 FS80-160 | IM V5 FS80-225 | IM V6 FS80-225 |
| Diagram | | | | | | |

Common malfunctions and solutions

| Stoppage | Possible reasons | Check or calibration methods |
|---|--|---|
| No-load motor can't start | <ol style="list-style-type: none"> 1.The feeder is disconnected (one root of the three phase) 2.One phase break in the three-phase winding of the stator(Connected in "Y" shape) 3.Power supply voltage or frequency is wrong | <ol style="list-style-type: none"> 1.Check the supply voltage and individualconnections. 2.Check the fuses, current in the feeder and resistance of each phase winding 3.Check voltage and frequency. |
| The motor cannot start underoad but can start at low load or no load. When the load increases, the speed drops sharply or even stop | <ol style="list-style-type: none"> 1. Low power supply 2.Stator windings have inter-turn short circuit 3.Out-of-phase disconnection in stator three phase winding("△"wiring method) 4.Overload | <ol style="list-style-type: none"> 1.Check the line voltage. 2.Check each winding and no load current of each phase. 3.Check the resistance of each winding 4.Check the load. |
| Motor stays in low rotation speed | <ol style="list-style-type: none"> 1.One phase of the stator winding backwards, the motor creates sounds. 2.The rotor end ring and middle of the quiderod cracked. | <ol style="list-style-type: none"> 1.Check the current of the feeder and the extension line marks. 2.Check short circuit current. |
| Stator overheating | <ol style="list-style-type: none"> 1.One of the three feeder lines is broken or one phase of the stator winding is broken 2.The power supply voltage is too high or too low 3.Overload 4.Stator turns are identical or short circuit 5.Poor ventilation | <ol style="list-style-type: none"> 1.Check for fuses,interline voltages and lead currents. 2.Check the current in the feeder; 3.Check the stator phase and ground insulation resistance. 4.Check the winding resistance. Check the vents. |
| Bearing overheating | <ol style="list-style-type: none"> 1.Wrong assembly 2.The motor shaft is not parallel to the axis being dragged 3.No lubricating oil, sundries or poor oil quality 4.The belt is too tight 5.Unbalanced magnetic suction | <ol style="list-style-type: none"> 1.Check whether the rotor rotates easily 2.Calibrate two axis balance. 3.Change the oil. 4.Loosen the belt or move the foot. 5.Check air gap eccentricity. |
| Safety device trip during closing | <ol style="list-style-type: none"> 1.The stator winding is inversely connected 2.Wrongly form three-phase winding of the stator from"y"to"△"shape 3.winding short circuit to the base or phase short circuit | <ol style="list-style-type: none"> 1.Check extension line marks and connection 2.Check the insulation of each phase winding to the frame as well the same insulation |
| Excessive mechanical vibration | <ol style="list-style-type: none"> 1.Rotor imbalanced and only stable at a fairlylow speed 2.Excessive axialmovement 3.The transmission belt joint is not well connected 4.The pulley is not stable | <ol style="list-style-type: none"> 1.Check the balance. 2.Check the outer clearance of the bearing and adjust it. 3.Reconnect the belt. 4.Check the pulley. |

Note: Malfunctions have various causes. One problem may have multiple reasons, and one reason may cause multiple problems. Only the most frequent causes are listed here. Please contact us whenever needed.

Motor exploded view

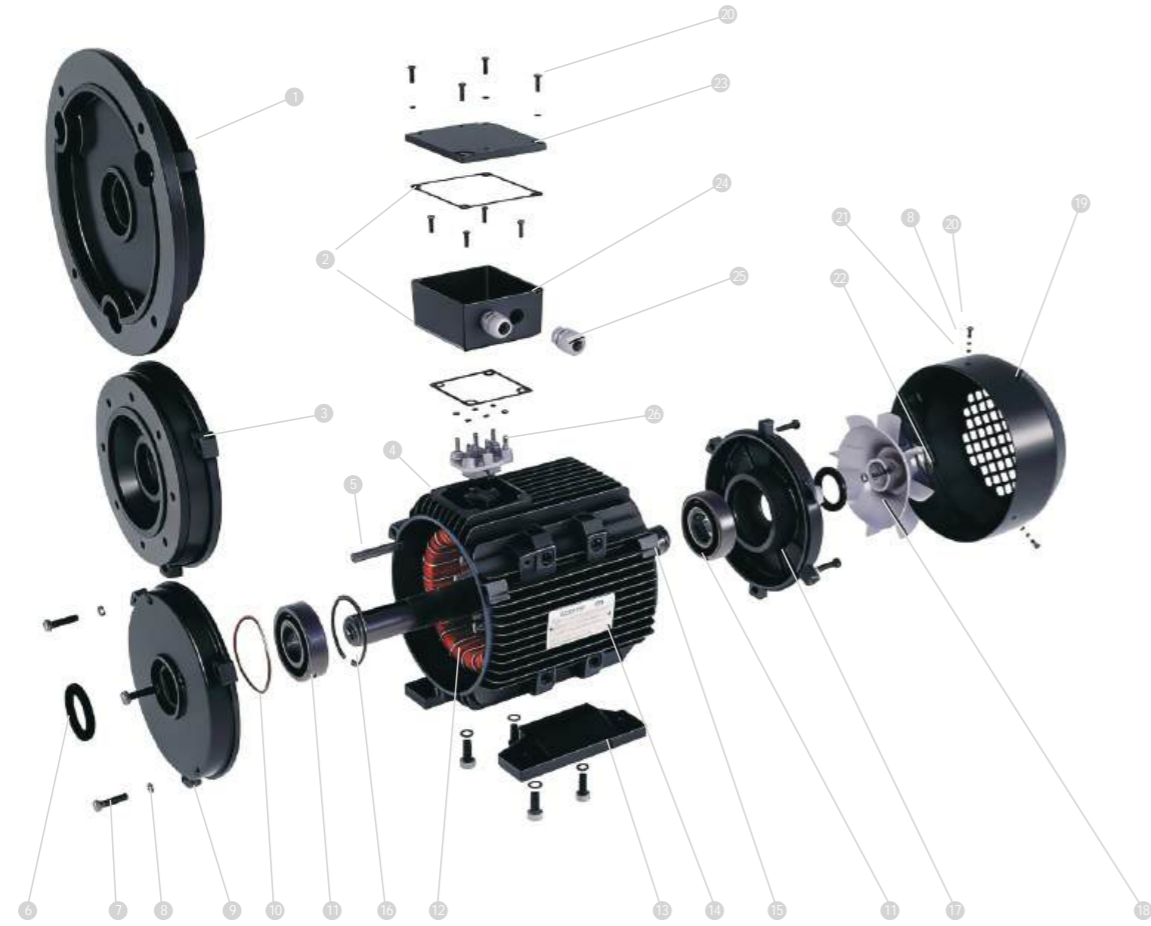


| NO | Designation |
|----|-------------------------|
| 1 | Bearing Cap |
| 2 | Key |
| 3 | Hex screw |
| 4 | Oil seal |
| 5 | Endshield (D.E) |
| 6 | Anter iorend cover |
| 7 | Rotor shaft |
| 8 | Bearing |
| 9 | Inner bearing cap (D.E) |

| NO | Designation |
|----|-------------------------|
| 10 | Stator lamination pack |
| 11 | Frame |
| 12 | Bearing |
| 13 | Rear end cover |
| 14 | Out bearing cap (N.D.E) |
| 15 | Oil seal |
| 16 | Fan |
| 17 | Circlip |
| 18 | Fan cover |

| NO | Designation |
|----|---------------------|
| 19 | Cross hexagon screw |
| 20 | Terminal box cap |
| 21 | Terminal box base |
| 22 | Binding post |
| 23 | Rubber cushion |
| 24 | Cross screw |
| 25 | Threaded sleeve |
| 26 | Rings |
| 27 | Zerk |

Motor exploded view

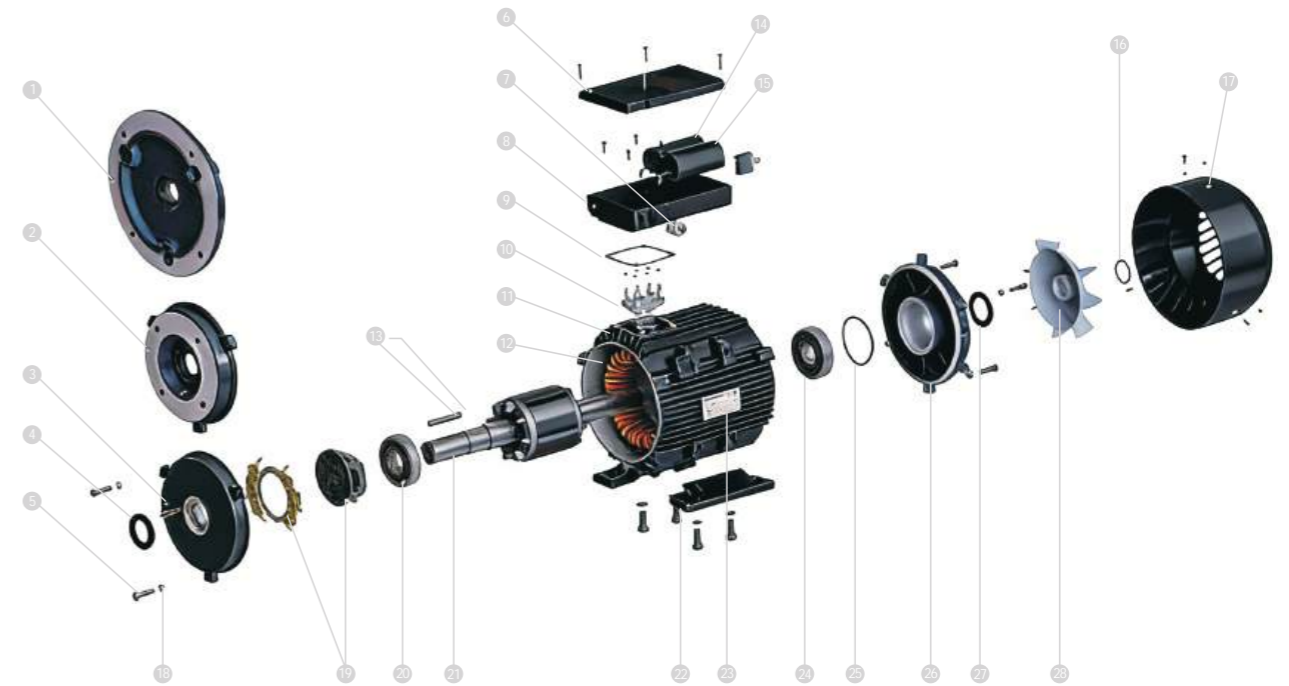


| NO | Designation |
|----|-------------------|
| 1 | B5 Flange |
| 2 | Gasket |
| 3 | B14 Flange |
| 4 | Frame |
| 5 | Key |
| 6 | (O Ring) Oil Seal |
| 7 | Bolt |
| 8 | Spring washer |
| 9 | Front end shield |

| NO | Designation |
|----|-----------------|
| 10 | Wave washer |
| 11 | Bearing |
| 12 | Stator |
| 13 | Feet |
| 14 | Nameplate |
| 15 | Rotor |
| 16 | Circlip |
| 17 | Rear end shield |
| 18 | Fan |

| NO | Designation |
|----|-------------------|
| 19 | Fan cover |
| 20 | Screw |
| 21 | Washer |
| 22 | Fan clamp |
| 23 | Terminal box lid |
| 24 | Terminal box base |
| 25 | Cable gland |
| 26 | Terminal board |

Motor exploded view



| NO | Designation |
|----|-------------------|
| 1 | B5 Flange |
| 2 | B14 Flange |
| 3 | Front end shield |
| 4 | (O Ring) Oil Seal |
| 5 | Bolt |
| 6 | Terminal box lid |
| 7 | Cable gland |
| 8 | Cable gland |
| 9 | Gasket |
| 10 | Terminal board |

| NO | Designation |
|----|--------------------|
| 11 | Frame |
| 12 | Stator |
| 13 | Key |
| 14 | Running capacitor |
| 15 | Starting capacitor |
| 16 | Fan clamp |
| 17 | Fan cover |
| 18 | Spring washer |
| 19 | Centrifugal switch |
| 20 | Bearing |

| NO | Designation |
|----|-------------------|
| 21 | Rotor |
| 22 | Feet |
| 23 | Nameplate |
| 24 | Bearing |
| 25 | Wave washer |
| 26 | Rear endshield |
| 27 | (O Ring) Oil Seal |
| 28 | Fan |

PRODUCT CATALOG

01-09

IE2 / IE3 / IE4

Three-Phase Electrical Motors



10-12

AMP series

Three-Phase Motors



13-14

AC MOTOR

Single-Phase, Dripproof, General Purpose, Capacitor Start & Run Motor



15-16

YL/YCL

Single-Phase Asynchronous Motors Cast iron Housing



17-18

TL series

Single-Phase Capacitor Start and Capacitor Run Asynchronous Motors Cast iron Housing



19-24

MS series

Three-Phase Asynchronous Motors Aluminum Housing



25-26

ML series

Single-Phase Capacitor Start and Capacitor Run Asynchronous Motors Aluminum Housing



27-28

MY series

Single-Phase Capacitor Run Asynchronous Motors Aluminum Housing



29-30

MC series

Single-Phase Capacitor Start Asynchronous Motors Aluminum Housing



IE2

Three-Phase Electrical Motors

IE2 series three-phase asynchronous motors meet IEC 60034-30: 2008 standard IE2 energy efficiency level.

IE2 series three-phase asynchronous motors are installed in accordance with IEC60034 standard. They have the advantages of reasonable structure, beautiful appearance, low noise, high protection level and high insulation level. They can be widely used in fans, pumps, machine tools, compressors, transport machinery and other general mechanical equipment. They can also be used in petroleum, chemical, iron and steel, mines and other places where the environment is harsh.



Technical Parameter

| Model | Rated Output | | Rated Speed rpm | Eff (%) | Power factor cos φ | Rated current | | | Rated Torque Nm | Ts/Tn | Tmax/Tn | Is/In |
|---------|--------------|------|-----------------|---------|--------------------|---------------|------|------|-----------------|-------|---------|-------|
| | (kw) | (HP) | | | | 380V | 400V | 415V | | | | |
| 801-2 | 0.75 | 1 | 2875 | 77.4 | 0.83 | 1.77 | 1.68 | 1.62 | 2.49 | 2.5 | 3 | 5.3 |
| 802-2 | 1.1 | 1.5 | 2875 | 79.6 | 0.84 | 2.50 | 2.37 | 2.29 | 3.65 | 3.2 | 3.8 | 7 |
| 90S-2 | 1.5 | 2 | 2890 | 81.3 | 0.84 | 3.32 | 3.16 | 3.04 | 4.96 | 2.7 | 3.5 | 7.1 |
| 90L-2 | 2.2 | 3 | 2890 | 83.2 | 0.85 | 4.72 | 4.48 | 4.32 | 7.27 | 2.4 | 3 | 6.9 |
| 100L-2 | 3 | 4 | 2891 | 84.6 | 0.87 | 6.17 | 5.86 | 5.65 | 9.91 | 3.2 | 4 | 8.0 |
| 112M-2 | 4 | 5.5 | 2914 | 85.8 | 0.88 | 8.04 | 7.64 | 7.36 | 13.11 | 2.5 | 3 | 7.5 |
| 132S1-2 | 5.5 | 7.5 | 2937 | 87.0 | 0.86 | 11.2 | 10.6 | 10.2 | 17.88 | 2.7 | 3.5 | 7.5 |
| 132S2-2 | 7.5 | 10 | 2940 | 88.1 | 0.88 | 14.6 | 13.9 | 13.4 | 24.36 | 2.4 | 3.3 | 7.5 |
| 160M1-2 | 11 | 15 | 2930 | 89.4 | 0.89 | 21.0 | 19.9 | 19.2 | 35.85 | 2.2 | 2.9 | 7.6 |
| 160M2-2 | 15 | 20 | 2930 | 90.3 | 0.89 | 28.4 | 26.9 | 26.0 | 48.89 | 2.3 | 3 | 7.6 |
| 160L-2 | 18.5 | 25 | 2937 | 90.9 | 0.89 | 34.7 | 33.0 | 31.8 | 60.15 | 2.3 | 3.1 | 7.4 |
| 180M-2 | 22 | 30 | 2940 | 91.3 | 0.88 | 41.6 | 39.5 | 38.1 | 71.12 | 2.8 | 3.2 | 7.8 |
| 200L1-2 | 30 | 40 | 2950 | 92.0 | 0.88 | 56.2 | 53.4 | 51.5 | 97.12 | 2.6 | 3 | 7.8 |
| 200L2-2 | 37 | 50 | 2950 | 92.5 | 0.89 | 68.2 | 64.8 | 62.5 | 119.78 | 2.6 | 3 | 7.7 |
| 225M-2 | 45 | 60 | 2960 | 92.9 | 0.89 | 82.5 | 78.4 | 75.6 | 145.19 | 2.4 | 2.6 | 7.5 |
| 250M-2 | 55 | 75 | 2965 | 93.2 | 0.90 | 99.5 | 94.5 | 91.1 | 177.15 | 2.3 | 2.8 | 7.1 |
| 280S-2 | 75 | 100 | 2970 | 93.8 | 0.90 | 135 | 128 | 123 | 241.16 | 2.5 | 2.8 | 7.4 |
| 280M-2 | 90 | 125 | 2970 | 94.1 | 0.91 | 160 | 152 | 146 | 289.39 | 2.8 | 2.8 | 7.6 |
| 315S-2 | 110 | 150 | 2975 | 94.3 | 0.91 | 194 | 185 | 178 | 353.11 | 2.4 | 2.8 | 6.9 |
| 315M-2 | 132 | 180 | 2975 | 94.6 | 0.91 | 233 | 221 | 213 | 423.73 | 2.6 | 2.9 | 7.1 |
| 315L1-2 | 160 | 200 | 2975 | 94.8 | 0.92 | 278 | 265 | 255 | 513.61 | 2.5 | 2.9 | 7.1 |
| 315L2-2 | 200 | 270 | 2975 | 95.0 | 0.92 | 348 | 330 | 318 | 642.02 | 2.5 | 2.8 | 6.9 |
| 355M-2 | 250 | 340 | 2980 | 95.0 | 0.92 | 434 | 412 | 398 | 801.17 | 2.5 | 2.8 | 7 |
| 355L-2 | 315 | 430 | 2980 | 95.0 | 0.92 | 547 | 520 | 501 | 1009.48 | 2.5 | 2.9 | 7 |

Technical Parameter

| Model | Rated Output | | Rated Speed rpm | Eff (%) | Power factor cos φ | Rated current | | | Rated Torque Nm | Ts/Tn | Tmax/Tn | Is/In |
|---------|--------------|------|-----------------|---------|--------------------|---------------|------|------|-----------------|-------|---------|-------|
| | (kw) | (HP) | | | | 380V | 400V | 415V | | | | |
| 802-4 | 0.75 | 1 | 1400 | 79.6 | 0.76 | 1.88 | 1.78 | 1.72 | 5.12 | 2.4 | 2.9 | 5 |
| 90S-4 | 1.1 | 1.5 | 1440 | 81.4 | 0.77 | 2.66 | 2.53 | 2.44 | 7.3 | 3 | 3.5 | 6 |
| 90L-4 | 1.5 | 2 | 1445 | 82.8 | 0.77 | 3.57 | 3.39 | 3.27 | 9.91 | 3.2 | 3.8 | 6.8 |
| 100L1-4 | 2.2 | 3 | 1440 | 84.3 | 0.81 | 4.88 | 4.64 | 4.47 | 14.6 | 3 | 3.5 | 7 |
| 100L2-4 | 3 | 4 | 1440 | 85.5 | 0.82 | 6.50 | 6.18 | 5.95 | 19.9 | 2.6 | 3.3 | 7 |
| 112M-4 | 4 | 5.5 | 1445 | 86.6 | 0.82 | 8.55 | 8.12 | 7.83 | 26.4 | 3.5 | 4 | 7.5 |
| 132S-4 | 5.5 | 7.5 | 1455 | 87.7 | 0.83 | 11.5 | 10.9 | 10.5 | 36.1 | 2.2 | 2.8 | 6.4 |
| 132M-4 | 7.5 | 10 | 1455 | 88.7 | 0.84 | 15.3 | 14.5 | 14.0 | 49.2 | 2.4 | 3 | 7 |
| 160M-4 | 11 | 15 | 1460 | 89.9 | 0.84 | 22.1 | 21.0 | 20.3 | 71.9 | 2.5 | 2.9 | 6.9 |
| 160L-4 | 15 | 20 | 1460 | 90.6 | 0.85 | 29.6 | 28.1 | 27.1 | 98.1 | 2.5 | 3 | 7.5 |
| 180M-4 | 18.5 | 25 | 1470 | 91.2 | 0.86 | 35.8 | 34.0 | 32.8 | 120.2 | 2.6 | 3.1 | 7.8 |
| 180L-4 | 22 | 30 | 1470 | 91.6 | 0.86 | 42.4 | 40.3 | 38.9 | 142.9 | 2.1 | 2.8 | 7.5 |
| 200L-4 | 30 | 40 | 1475 | 92.3 | 0.86 | 57.3 | 54.4 | 52.5 | 194.9 | 2.4 | 2.9 | 7.1 |
| 225S-4 | 37 | 50 | 1480 | 92.7 | 0.87 | 69.7 | 66.2 | 63.8 | 238.8 | 2.5 | 2.7 | 7.5 |
| 225M-4 | 45 | 60 | 1480 | 93.1 | 0.87 | 84.3 | 80.1 | 77.2 | 290.4 | 2.5 | 2.8 | 7.6 |
| 250M-4 | 55 | 75 | 1480 | 93.5 | 0.87 | 103 | 97.5 | 94.0 | 354.9 | 2.6 | 2.7 | 7.3 |
| 280S-4 | 75 | 100 | 1480 | 94.0 | 0.87 | 139 | 132 | 127 | 484 | 2.7 | 2.7 | 7.6 |
| 280M-4 | 90 | 125 | 1480 | 94.2 | 0.87 | 167 | 158 | 153 | 580.7 | 2.7 | 2.7 | 7.5 |
| 315S-4 | 110 | 150 | 1485 | 94.5 | 0.88 | 201 | 191 | 184 | 707.4 | 2.7 | 2.9 | 7.1 |
| 315M-4 | 132 | 180 | 1485 | 94.7 | 0.88 | 240 | 228 | 220 | 848.9 | 2.7 | 2.9 | 7.3 |
| 315L1-4 | 160 | 200 | 1485 | 94.9 | 0.89 | 288 | 273 | 263 | 1029 | 3 | 3 | 7.4 |
| 315L2-4 | 200 | 270 | 1485 | 95.1 | 0.89 | 359 | 341 | 328 | 1286 | 3 | 3 | 7.6 |
| 355M-4 | 250 | 340 | 1490 | 95.1 | 0.90 | 443 | 421 | 406 | 1602 | 2.8 | 2.9 | 7.5 |
| 355L-4 | 315 | 430 | 1490 | 95.1 | 0.90 | 559 | 531 | 511 | 2019 | 2.6 | 2.8 | 7.4 |

Technical Parameter

| Model | Rated Output | | Rated Speed rpm | Eff (%) | Power factor cos φ | Rated current | | | Rated Torque Nm | Ts/Tn | Tmax/Tn | Is/In |
|---------|--------------|------|-----------------|---------|--------------------|---------------|------|------|-----------------|-------|---------|-------|
| | (kw) | (HP) | | | | 380V | 400V | 415V | | | | |
| 90S-6 | 0.75 | 1 | 934 | 75.9 | 0.72 | 2.08 | 1.98 | 1.9 | 7.67 | 2.2 | 2.4 | 4.5 |
| 90L-6 | 1.1 | 1.5 | 945 | 78.1 | 0.72 | 2.97 | 2.82 | 2.72 | 11.1 | 2.4 | 2.6 | 4.5 |
| 100L-6 | 1.5 | 2 | 945 | 79.8 | 0.75 | 3.8 | 3.61 | 3.48 | 15.2 | 1.8 | 2.2 | 4.2 |
| 112M-6 | 2.2 | 3 | 960 | 81.8 | 0.76 | 5.37 | 5.1 | 4.92 | 21.9 | 2.3 | 2.8 | 4.5 |
| 132S-6 | 3 | 4 | 964 | 83.3 | 0.76 | 7.19 | 6.83 | 6.58 | 29.7 | 1.8 | 2.4 | 4.5 |
| 132M1-6 | 4 | 5.5 | 965 | 84.6 | 0.76 | 9.43 | 8.96 | 8.63 | 39.6 | 2.3 | 2.7 | 5 |
| 132M2-6 | 5.5 | 7.5 | 965 | 86 | 0.77 | 12.6 | 12 | 11.5 | 54.4 | 1.9 | 2.8 | 5.5 |
| 160M-6 | 7.5 | 10 | 970 | 87.2 | 0.78 | 16.7 | 15.9 | 15.3 | 73.8 | 2 | 3 | 6.5 |
| 160L-6 | 11 | 15 | 970 | 88.7 | 0.78 | 24.1 | 22.9 | 22.1 | 108.3 | 2.4 | 3.3 | 7.5 |
| 180L-6 | 15 | 20 | 975 | 89.7 | 0.81 | 31.4 | 29.8 | 28.7 | 146.9 | 2 | 2.7 | 6.4 |
| 200L1-6 | 18.5 | 25 | 980 | 90.4 | 0.81 | 38.3 | 36.4 | 35.1 | 180.3 | 2.3 | 3 | 7 |
| 200L2-6 | 22 | 30 | 980 | 90.9 | 0.83 | 44.3 | 42 | 40.5 | 214.4 | 2.3 | 2.8 | 7 |
| 225M-6 | 30 | 40 | 980 | 91.7 | 0.84 | 59.2 | 56.2 | 54.2 | 292.3 | 2.2 | 2.7 | 6.5 |
| 250M-6 | 37 | 50 | 980 | 92.2 | 0.86 | 70.8 | 67.3 | 64.8 | 360.6 | 2.5 | 2.7 | 6.9 |
| 280S-6 | 45 | 60 | 980 | 92.7 | 0.86 | 85.8 | 81.5 | 78.5 | 438.5 | 2.2 | 2.4 | 7 |
| 280M-6 | 55 | 75 | 980 | 93.1 | 0.86 | 104 | 99.2 | 95.6 | 536 | 2.4 | 2.5 | 7.1 |
| 315S-6 | 75 | 100 | 985 | 93.7 | 0.86 | 141 | 134 | 129 | 727.2 | 2.8 | 3 | 7.3 |
| 315M-6 | 90 | 125 | 985 | 94 | 0.86 | 169 | 160 | 155 | 872.6 | 2.7 | 2.9 | 7.1 |
| 315L1-6 | 110 | 150 | 985 | 94.3 | 0.86 | 206 | 196 | 189 | 1066 | 2.9 | 2.9 | 7.4 |
| 315L2-6 | 132 | 180 | 985 | 94.6 | 0.87 | 243 | 231 | 223 | 1280 | 3 | 3.1 | 7.6 |
| 355M1-6 | 160 | 200 | 990 | 94.8 | 0.88 | 291 | 277 | 267 | 1543 | 3.1 | 3.1 | 7.6 |
| 355M2-6 | 200 | 270 | 990 | 95 | 0.88 | 363 | 345 | 333 | 1929 | 3 | 3 | 7.8 |
| 355L-6 | 250 | 340 | 990 | 95 | 0.88 | 454 | 432 | 416 | 2412 | 3.1 | 3 | 7.7 |

IE3

Three-Phase Electrical Motors

IE3 series three-phase asynchronous motors meet IE3 energy efficiency level in IEC 60034-30:2008 standard. IE3 series three-phase asynchronous motors are installed in accordance with IEC60034 standard. They have the advantages of reasonable structure, beautiful appearance, low noise, high protection level and high insulation level. They can be widely used in fans, pumps, machine tools, compressors, transport machinery and other general mechanical equipment. They can also be used in petroleum, chemical, iron and steel, mines and other places where the environment is harsh.



Technical Parameter

| Model | Rated Output | | Rated Speed rpm | Eff (%) | Power factor cos φ | Rated current | | | Rated Torque Nm | Ts/Tn | Tmax/Tn | Is/In |
|---------|--------------|------|-----------------|---------|--------------------|---------------|------|------|-----------------|-------|---------|-------|
| | (kw) | (HP) | | | | 380V | 400V | 415V | | | | |
| 802-4 | 0.75 | 1 | 1400 | 82.5 | 0.76 | 1.88 | 1.78 | 1.72 | 5.12 | 2.4 | 2.9 | 5 |
| 90S-4 | 1.1 | 1.5 | 1440 | 84.1 | 0.77 | 2.66 | 2.53 | 2.44 | 7.3 | 3 | 3.5 | 6 |
| 90L-4 | 1.5 | 2 | 1445 | 85.3 | 0.77 | 3.57 | 3.39 | 3.27 | 9.91 | 3.2 | 3.8 | 6.8 |
| 100L1-4 | 2.2 | 3 | 1440 | 86.7 | 0.81 | 4.88 | 4.64 | 4.47 | 14.6 | 3 | 3.5 | 7 |
| 100L2-4 | 3 | 4 | 1440 | 87.7 | 0.82 | 6.50 | 6.18 | 5.95 | 19.9 | 2.6 | 3.3 | 7 |
| 112M-4 | 4 | 5.5 | 1445 | 88.6 | 0.82 | 8.55 | 8.12 | 7.83 | 26.4 | 3.5 | 4 | 7.5 |
| 132S-4 | 5.5 | 7.5 | 1455 | 89.6 | 0.83 | 11.5 | 10.9 | 10.5 | 36.1 | 2.2 | 2.8 | 6.4 |
| 132M-4 | 7.5 | 10 | 1455 | 90.4 | 0.84 | 15.3 | 14.5 | 14.0 | 49.2 | 2.4 | 3 | 7 |
| 160M-4 | 11 | 15 | 1460 | 91.4 | 0.84 | 22.1 | 21.0 | 20.3 | 71.9 | 2.5 | 2.9 | 6.9 |
| 160L-4 | 15 | 20 | 1460 | 92.1 | 0.85 | 29.6 | 28.1 | 27.1 | 98.1 | 2.5 | 3 | 7.5 |
| 180M-4 | 18.5 | 25 | 1470 | 92.6 | 0.86 | 35.8 | 34.0 | 32.8 | 120.2 | 2.6 | 3.1 | 7.8 |
| 180L-4 | 22 | 30 | 1470 | 93.0 | 0.86 | 41.8 | 39.7 | 38.3 | 142.9 | 2.0 | 2.3 | 7.8 |
| 200L-4 | 30 | 40 | 1470 | 93.6 | 0.86 | 57.3 | 54.4 | 52.5 | 194.9 | 2.4 | 2.9 | 7.1 |
| 225S-4 | 37 | 50 | 1480 | 93.9 | 0.87 | 69.7 | 66.2 | 63.8 | 238.8 | 2.5 | 2.7 | 7.5 |
| 225M-4 | 45 | 60 | 1480 | 94.2 | 0.87 | 84.3 | 80.1 | 77.2 | 290.4 | 2.5 | 2.8 | 7.6 |
| 250M-4 | 55 | 75 | 1480 | 94.6 | 0.87 | 103 | 97.5 | 94.0 | 354.9 | 2.6 | 2.7 | 7.3 |
| 280S-4 | 75 | 100 | 1480 | 95.0 | 0.87 | 139 | 132 | 127 | 484 | 2.7 | 2.7 | 7.6 |
| 280M-4 | 90 | 125 | 1480 | 95.2 | 0.87 | 167 | 158 | 153 | 580.7 | 2.7 | 2.7 | 7.5 |
| 315S-4 | 110 | 150 | 1485 | 95.4 | 0.88 | 201 | 191 | 184 | 707.4 | 2.7 | 2.9 | 7.1 |
| 315M-4 | 132 | 180 | 1485 | 95.6 | 0.88 | 240 | 228 | 220 | 848.9 | 2.7 | 2.9 | 7.3 |
| 315L1-4 | 160 | 200 | 1485 | 95.8 | 0.89 | 288 | 273 | 263 | 1029 | 3 | 3 | 7.4 |
| 315L2-4 | 200 | 270 | 1485 | 96.0 | 0.89 | 359 | 341 | 328 | 1286 | 3 | 3 | 7.6 |
| 355M-4 | 250 | 340 | 1490 | 96.0 | 0.90 | 443 | 421 | 406 | 1602 | 2.8 | 2.9 | 7.5 |
| 355L-4 | 315 | 430 | 1490 | 96.0 | 0.90 | 559 | 531 | 511 | 2019 | 2.6 | 2.8 | 7.4 |

Technical Parameter

| Model | Rated Output | | Rated Speed rpm | Eff (%) | Power factor cos φ | Rated current | | | Rated Torque Nm | Ts/Tn | Tmax/Tn | Is/In |
|---------|--------------|------|-----------------|---------|--------------------|---------------|------|------|-----------------|-------|---------|-------|
| | (kw) | (HP) | | | | 380V | 400V | 415V | | | | |
| 801-2 | 0.75 | 1 | 2875 | 80.7 | 0.83 | 1.77 | 1.68 | 1.62 | 2.49 | 2.5 | 3 | 5.3 |
| 802-2 | 1.1 | 1.5 | 2875 | 82.7 | 0.84 | 2.50 | 2.37 | 2.29 | 3.65 | 3.2 | 3.8 | 7 |
| 90S-2 | 1.5 | 2 | 2890 | 84.2 | 0.84 | 3.32 | 3.16 | 3.04 | 4.96 | 2.7 | 3.5 | 7.1 |
| 90L-2 | 2.2 | 3 | 2890 | 85.9 | 0.85 | 4.72 | 4.48 | 4.32 | 7.27 | 2.4 | 3 | 6.9 |
| 100L-2 | 3 | 4 | 2891 | 87.1 | 0.87 | 6.17 | 5.86 | 5.65 | 9.91 | 3.2 | 4 | 8.0 |
| 112M-2 | 4 | 5.5 | 2914 | 88.1 | 0.88 | 8.04 | 7.64 | 7.36 | 13.11 | 2.5 | 3 | 7.5 |
| 132S1-2 | 5.5 | 7.5 | 2937 | 89.2 | 0.86 | 11.2 | 10.6 | 10.2 | 17.88 | 2.7 | 3.5 | 7.5 |
| 132S2-2 | 7.5 | 10 | 2940 | 90.1 | 0.88 | 14.6 | 13.9 | 13.4 | 24.36 | 2.4 | 3.3 | 7.5 |
| 160M1-2 | 11 | 15 | 2930 | 91.2 | 0.89 | 21.0 | 19.9 | 19.2 | 35.85 | 2.2 | 2.9 | 7.6 |
| 160M2-2 | 15 | 20 | 2930 | 91.9 | 0.89 | 28.4 | 26.9 | 26.0 | 48.89 | 2.3 | 3 | 7.6 |
| 160L-2 | 18.5 | 25 | 2937 | 92.4 | 0.89 | 34.7 | 33.0 | 31.8 | 60.15 | 2.3 | 3.1 | 7.4 |
| 180M-2 | 22 | 30 | 2940 | 92.7 | 0.88 | 41.6 | 39.5 | 38.1 | 71.12 | 2.8 | 3.2 | 7.8 |
| 200L1-2 | 30 | 40 | 2950 | 93.3 | 0.88 | 56.2 | 53.4 | 51.5 | 97.12 | 2.6 | 3 | 7.8 |
| 200L2-2 | 37 | 50 | 2950 | 93.7 | 0.89 | 68.2 | 64.8 | 62.5 | 119.78 | 2.6 | 3 | 7.7 |
| 225M-2 | 45 | 60 | 2960 | 94.0 | 0.89 | 82.5 | 78.4 | 75.6 | 145.19 | 2.4 | 2.6 | 7.5 |
| 250M-2 | 55 | 75 | 2965 | 94.3 | 0.90 | 99.5 | 94.5 | 91.1 | 177.15 | 2.3 | 2.8 | 7.1 |
| 280S-2 | 75 | 100 | 2970 | 94.7 | 0.90 | 135 | 128 | 123 | 241.16 | 2.5 | 2.8 | 7.4 |
| 280M-2 | 90 | 125 | 2970 | 95.0 | 0.91 | 160 | 152 | 146 | 289.39 | 2.8 | 2.8 | 7.6 |
| 315S-2 | 110 | 150 | 2975 | 95.2 | 0.91 | 194 | 185 | 178 | 353.11 | 2.4 | 2.8 | 6.9 |
| 315M-2 | 132 | 180 | 2975 | 95.4 | 0.91 | 233 | 221 | 213 | 423.73 | 2.6 | 2.9 | 7.1 |
| 315L1-2 | 160 | 200 | 2975 | 95.6 | 0.92 | 278 | 265 | 255 | 513.61 | 2.5 | 2.9 | 7.1 |
| 315L2-2 | 200 | 270 | 2975 | 95.8 | 0.92 | 348 | 330 | 318 | 642.02 | 2.5 | 2.8 | 6.9 |
| 355M-2 | 250 | 340 | 2980 | 95.8 | 0.92 | 434 | 412 | 398 | 801.17 | 2.5 | 2.8 | 7 |
| 355L-2 | 315 | 430 | 2980 | 95.8 | 0.92 | 547 | 520 | 501 | 1009.48 | 2.5 | 2.9 | 7 |

Technical Parameter

| Model | Rated Output | | Rated Speed rpm | Eff (%) | Power factor cos φ | Rated current | | | Rated Torque Nm | Ts/Tn | Tmax/Tn | Is/In |
|---------|--------------|------|-----------------|---------|--------------------|---------------|------|------|-----------------|-------|---------|-------|
| | (kw) | (HP) | | | | 380V | 400V | 415V | | | | |
| 90S-6 | 0.75 | 1 | 934 | 78.9 | 0.72 | 2.08 | 1.98 | 1.9 | 7.67 | 2.2 | 2.4 | 4.5 |
| 90L-6 | 1.1 | 1.5 | 945 | 81.0 | 0.72 | 2.97 | 2.82 | 2.72 | 11.1 | 2.4 | 2.6 | 4.5 |
| 100L-6 | 1.5 | 2 | 945 | 82.5 | 0.75 | 3.8 | 3.61 | 3.48 | 15.2 | 1.8 | 2.2 | 4.2 |
| 112M-6 | 2.2 | 3 | 960 | 84.3 | 0.76 | 5.37 | 5.1 | 4.92 | 21.9 | 2.3 | 2.8 | 4.5 |
| 132S-6 | 3 | 4 | 964 | 85.6 | 0.76 | 7.19 | 6.83 | 6.58 | 29.7 | 1.8 | 2.4 | 4.5 |
| 132M1-6 | 4 | 5.5 | 965 | 86.6 | 0.76 | 9.43 | 8.96 | 8.63 | 39.6 | 2.3 | 2.7 | 5 |
| 132M2-6 | 5.5 | 7.5 | 965 | 88.0 | 0.77 | 12.6 | 12 | 11.5 | 54.4 | 1.9 | 2.8 | 5.5 |
| 160M-6 | 7.5 | 10 | 970 | 89.1 | 0.78 | 16.7 | 15.9 | 15.3 | 73.8 | 2 | 3 | 6.5 |
| 160L-6 | 11 | 15 | 970 | 90.3 | 0.78 | 24.1 | 22.9 | 22.1 | 108.3 | 2.4 | 3.3 | 7.5 |
| 180L-6 | 15 | 20 | 975 | 91.2 | 0.81 | 31.4 | 29.8 | 28.7 | 146.9 | 2 | 2.7 | 6.4 |
| 200L1-6 | 18.5 | 25 | 980 | 91.7 | 0.81 | 38.3 | 36.4 | 35.1 | 180.3 | 2.3 | 3 | 7 |
| 200L2-6 | 22 | 30 | 980 | 92.2 | 0.83 | 44.3 | 42 | 40.5 | 214.4 | 2.3 | 2.8 | 7 |
| 225M-6 | 30 | 40 | 980 | 92.9 | 0.84 | 59.2 | 56.2 | 54.2 | 292.3 | 2.2 | 2.7 | 6.5 |
| 250M-6 | 37 | 50 | 980 | 93.3 | 0.86 | 70.8 | 67.3 | 64.8 | 360.6 | 2.5 | 2.7 | 6.9 |
| 280S-6 | 45 | 60 | 980 | 93.7 | 0.86 | 85.8 | 81.5 | 78.5 | 438.5 | 2.2 | 2.4 | 7 |
| 280M-6 | 55 | 75 | 980 | 94.1 | 0.86 | 104 | 99.2 | 95.6 | 536 | 2.4 | 2.5 | 7.1 |
| 315S-6 | 75 | 100 | 985 | 94.6 | 0.86 | 141 | 134 | 129 | 727.2 | 2.8 | 3 | 7.3 |
| 315M-6 | 90 | 125 | 980 | 94.9 | 0.86 | 169 | 160 | 155 | 872.6 | 2.7 | 2.9 | 7.1 |
| 315L1-6 | 110 | 150 | 985 | 95.1 | 0.86 | 206 | 196 | 189 | 1066 | 2.9 | 2.9 | 7.4 |
| 315L2-6 | 132 | 180 | 985 | 95.4 | 0.87 | 243 | 231 | 223 | 1280 | 3 | 3.1 | 7.6 |
| 355M1-6 | 160 | 200 | 990 | 95.6 | 0.88 | 291 | 277 | 267 | 1543 | 3.1 | 3.1 | 7.6 |
| 355M2-6 | 200 | 270 | 990 | 95.8 | 0.88 | 363 | 345 | 333 | 1929 | 3 | 3 | 7.8 |
| 355L-6 | 250 | 340 | 990 | 95.8 | 0.88 | 454 | 432 | 416 | 2412 | 3.1 | 3 | 7.7 |

IE4

Three-Phase Electrical Motors

IE4 series three-phase asynchronous motors meet IEC 60034-30-1:2014 standard IE4 energy efficiency level.

IE4 series three-phase asynchronous motors are installed in accordance with IEC60034 standard. They have the advantages of reasonable structure, beautiful appearance, low noise, high protection level and high insulation level. They can be widely used in fans, pumps, machine tools, compressors, transport machinery and other general mechanical equipment. They can also be used in petroleum, chemical, iron and steel, mines and other places where the environment is harsh.



Technical Parameter

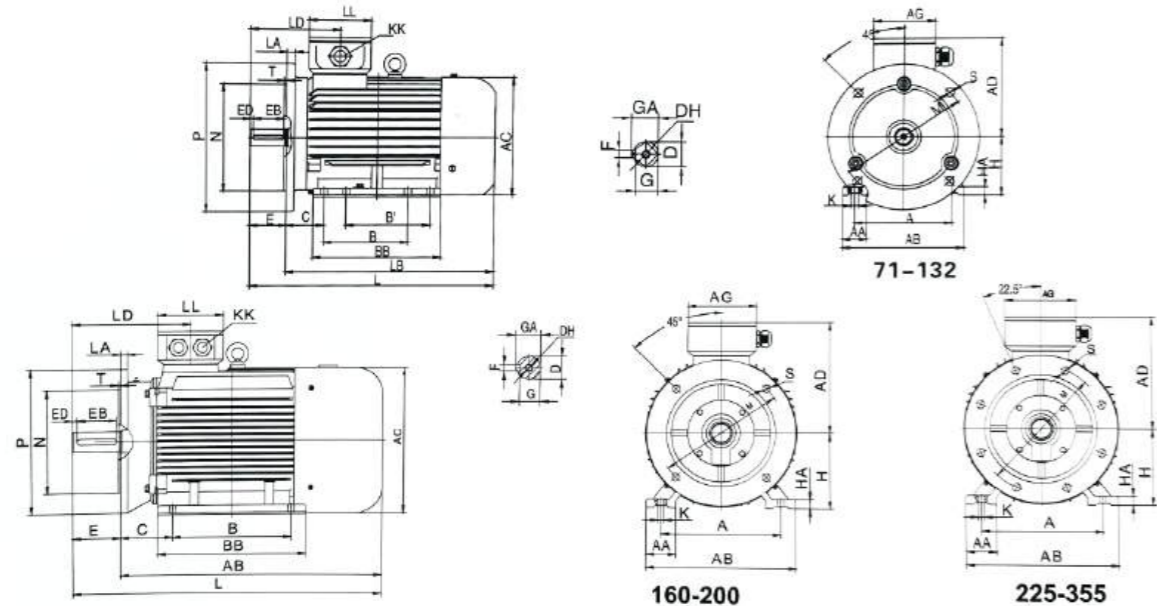
| Model | Rated Output | | Rated Speed rpm | Eff (%) | Power factor cos φ | Rated current | | | Rated Torque Nm | Ts/Tn | Tmax/Tn | Is/In |
|---------|--------------|------|-----------------|---------|--------------------|---------------|------|------|-----------------|-------|---------|-------|
| | (kw) | (HP) | | | | 380V | 400V | 415V | | | | |
| 801-2 | 0.75 | 1 | 2910 | 83.5 | 0.82 | 1.66 | 1.58 | 1.52 | 2.46 | 2.3 | 2.3 | 7.0 |
| 802-2 | 1.1 | 1.5 | 2920 | 85.2 | 0.83 | 2.36 | 2.25 | 2.16 | 3.60 | 2.2 | 2.3 | 7.3 |
| 90S-2 | 1.5 | 2 | 2930 | 86.5 | 0.84 | 3.14 | 2.98 | 2.87 | 4.89 | 2.2 | 2.3 | 7.6 |
| 90L-2 | 2.2 | 3 | 2930 | 88.0 | 0.85 | 4.47 | 4.25 | 4.09 | 7.17 | 2.2 | 2.3 | 7.6 |
| 100L-2 | 3 | 4 | 2935 | 89.1 | 0.87 | 5.88 | 5.59 | 5.38 | 9.76 | 2.2 | 2.3 | 7.8 |
| 112M-2 | 4 | 5.5 | 2940 | 90.0 | 0.88 | 7.67 | 7.29 | 7.03 | 13.0 | 2.2 | 2.3 | 8.3 |
| 132S1-2 | 5.5 | 7.5 | 2945 | 90.9 | 0.88 | 10.4 | 9.9 | 9.57 | 17.8 | 2.0 | 2.3 | 8.3 |
| 132S2-2 | 7.5 | 10 | 2950 | 91.7 | 0.88 | 14.1 | 13.4 | 12.9 | 24.3 | 2.0 | 2.3 | 7.9 |
| 160M1-2 | 11 | 15 | 2960 | 92.6 | 0.89 | 20.3 | 19.3 | 18.6 | 35.5 | 2.0 | 2.3 | 8.1 |
| 160M2-2 | 15 | 20 | 2960 | 93.3 | 0.89 | 27.4 | 26.1 | 25.1 | 48.4 | 2.0 | 2.3 | 8.1 |
| 160L-2 | 18.5 | 25 | 2960 | 93.7 | 0.89 | 33.7 | 32.0 | 30.9 | 59.7 | 2.0 | 2.3 | 8.2 |
| 180M-2 | 22 | 30 | 2965 | 94.0 | 0.89 | 40.0 | 38.0 | 36.6 | 70.9 | 2.0 | 2.3 | 8.2 |
| 200L1-2 | 30 | 40 | 2970 | 94.5 | 0.89 | 54.2 | 51.5 | 49.6 | 96.5 | 2.0 | 2.3 | 7.6 |
| 200L2-2 | 37 | 50 | 2970 | 94.8 | 0.89 | 66.6 | 63.3 | 61.0 | 119.0 | 2.0 | 2.3 | 7.6 |
| 225M-2 | 45 | 60 | 2975 | 95.0 | 0.90 | 80.0 | 76.0 | 73.2 | 144.5 | 2.0 | 2.3 | 7.7 |
| 250M-2 | 55 | 75 | 2975 | 95.3 | 0.90 | 97.4 | 92.6 | 89.2 | 176.6 | 2.0 | 2.3 | 7.7 |
| 280S-2 | 75 | 100 | 2980 | 95.6 | 0.90 | 132 | 126 | 121 | 240.4 | 1.8 | 2.3 | 7.1 |
| 280M-2 | 90 | 125 | 2982 | 95.8 | 0.90 | 159 | 151 | 145 | 288.2 | 1.8 | 2.3 | 7.1 |
| 315S-2 | 110 | 150 | 2980 | 96.0 | 0.90 | 193 | 184 | 177 | 352.5 | 1.8 | 2.3 | 7.1 |
| 315M-2 | 132 | 180 | 2980 | 96.2 | 0.90 | 232 | 220 | 212 | 423.0 | 1.8 | 2.3 | 7.1 |
| 315L1-2 | 160 | 200 | 2980 | 96.3 | 0.91 | 277 | 264 | 254 | 512.8 | 1.8 | 2.3 | 7.2 |
| 315L2-2 | 200 | 270 | 2980 | 96.5 | 0.91 | 346 | 329 | 317 | 640.9 | 1.8 | 2.2 | 7.2 |
| 355M-2 | 250 | 340 | 2985 | 96.5 | 0.91 | 433 | 411 | 396 | 799.8 | 1.6 | 2.2 | 7.2 |
| 355L-2 | 315 | 430 | 2982 | 96.5 | 0.91 | 545 | 518 | 499 | 1009 | 1.6 | 2.2 | 7.2 |

Technical Parameter

| Model | Rated Output | | Rated Speed rpm | Eff (%) | Power factor cos φ | Rated current | | | Rated Torque Nm | Ts/Tn | Tmax/Tn | Is/In |
|---------|--------------|------|-----------------|---------|--------------------|---------------|------|------|-----------------|-------|---------|-------|
| | (kw) | (HP) | | | | 380V | 400V | 415V | | | | |
| 801-4 | 0.55 | 0.75 | 1420 | 83.9 | 0.75 | 1.33 | 1.26 | 1.22 | 3.70 | 2.4 | 2.3 | 5.2 |
| 802-4 | 0.75 | 1 | 1430 | 85.7 | 0.75 | 1.77 | 1.68 | 1.62 | 5.01 | 2.3 | 2.3 | 6.6 |
| 90S-4 | 1.1 | 1.5 | 1445 | 87.2 | 0.76 | 2.52 | 2.40 | 2.31 | 7.27 | 2.3 | 2.3 | 6.8 |
| 90L-4 | 1.5 | 2 | 1450 | 88.2 | 0.77 | 3.36 | 3.19 | 3.07 | 9.88 | 2.3 | 2.3 | 7.0 |
| 100L1-4 | 2.2 | 3 | 1455 | 89.5 | 0.81 | 4.61 | 4.38 | 4.22 | 14.4 | 2.3 | 2.3 | 7.6 |
| 100L2-4 | 3 | 4 | 1455 | 90.4 | 0.82 | 6.15 | 5.84 | 5.63 | 19.7 | 2.3 | 2.3 | 7.6 |
| 112M-4 | 4 | 5.5 | 1460 | 91.1 | 0.82 | 8.14 | 7.73 | 7.45 | 26.2 | 2.2 | 2.3 | 7.8 |
| 132S-4 | 5.5 | 7.5 | 1470 | 91.9 | 0.83 | 11.0 | 10.4 | 10.0 | 35.7 | 2.0 | 2.3 | 7.9 |
| 132M-4 | 7.5 | 10 | 1470 | 92.6 | 0.84 | 14.6 | 13.9 | 13.4 | 48.7 | 2.0 | 2.3 | 7.5 |
| 160M-4 | 11 | 15 | 1475 | 93.3 | 0.85 | 21.1 | 20.0 | 19.3 | 71.2 | 2.2 | 2.3 | 7.7 |
| 160L-4 | 15 | 20 | 1475 | 93.9 | 0.86 | 28.2 | 26.8 | 25.8 | 97.1 | 2.2 | 2.3 | 7.8 |
| 180M-4 | 18.5 | 25 | 1480 | 94.2 | 0.86 | 34.7 | 33.0 | 31.8 | 119.4 | 2.0 | 2.3 | 7.8 |
| 180L-4 | 22 | 30 | 1480 | 94.5 | 0.86 | 41.1 | 39.1 | 37.7 | 142.0 | 2.0 | 2.3 | 7.8 |
| 200L-4 | 30 | 40 | 1480 | 94.9 | 0.86 | 55.8 | 53.1 | 51.1 | 193.6 | 2.0 | 2.3 | 7.3 |
| 225S-4 | 37 | 50 | 1485 | 95.2 | 0.86 | 68.7 | 65.2 | 62.9 | 237.9 | 2.0 | 2.3 | 7.4 |
| 225M-4 | 45 | 60 | 1485 | 95.4 | 0.86 | 83.3 | 79.2 | 76.3 | 289.4 | 2.0 | 2.3 | 7.4 |
| 250M-4 | 55 | 75 | 1485 | 98.7 | 0.86 | 102 | 96.5 | 93.0 | 353.7 | 2.2 | 2.3 | 7.4 |
| 280S-4 | 75 | 100 | 1490 | 96.0 | 0.88 | 135 | 128 | 124 | 480.7 | 2.0 | 2.3 | 6.9 |
| 280M-4 | 90 | 125 | 1490 | 96.1 | 0.88 | 162 | 154 | 148 | 576.8 | 2.0 | 2.3 | 6.9 |
| 315S-4 | 110 | 150 | 1490 | 96.3 | 0.89 | 195 | 185 | 179 | 705.0 | 2.0 | 2.2 | 7.0 |
| 315M-4 | 132 | 180 | 1490 | 96.4 | 0.89 | 234 | 222 | 214 | 846.0 | 2.0 | 2.2 | 7.0 |
| 315L1-4 | 160 | 200 | 1490 | 96.6 | 0.89 | 283 | 269 | 259 | 1026 | 2.0 | 2.2 | 7.1 |
| 315L2-4 | 200 | 270 | 1490 | 96.7 | 0.90 | 349 | 332 | 320 | 1282 | 2.0 | 2.2 | 7.1 |
| 355M-4 | 250 | 340 | 1490 | 96.7 | 0.90 | 436 | 415 | 400 | 1602 | 2.0 | 2.2 | 7.1 |
| 355L-4 | 315 | 430 | 1490 | 96.7 | 0.90 | 550 | 522 | 504 | 2019 | 2.0 | 2.2 | 7.1 |

Installation Dimensions

IM B35 H80-355

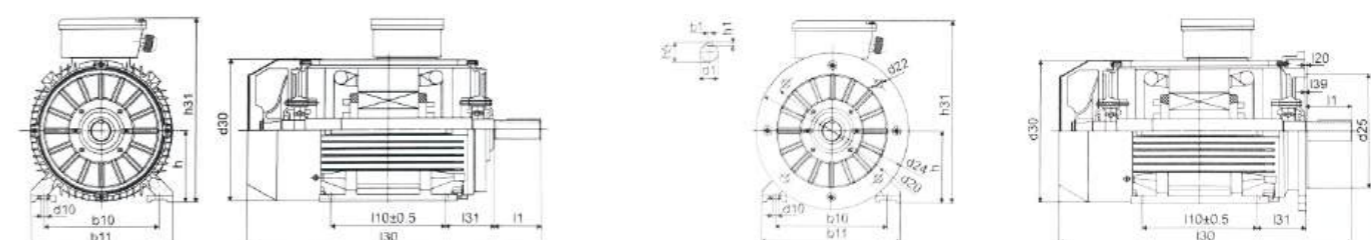


Installation Dimensions

| TYPE | Poles | A | AA | AB | AC | AD | AG | B | BB | C | D | DH | E | EB | ED | F | G | GA | H | HA | K | KK | L | LA | LD | LL | M | N | P | S | T |
|------|----------|-----|-----|-----|-------|------|-----|-----|-----|-----|----|--------|-----|-----|-----|----|------|------|-----|----|---------|-----------|------|----|-----|-----|-----|-----|-----|------|-----|
| 80 | 2,4,6,8 | 125 | 34 | 160 | 167 | 147 | 102 | 100 | 150 | 50 | 19 | M6x16 | 40 | 30 | 5 | 6 | 15.5 | 21.5 | 80 | 10 | 4-φ10 | 1-M25x1.5 | 311 | 12 | 119 | 102 | 165 | 130 | 200 | 12 | 3.5 |
| 90S | 2,4,6,8 | 140 | 36 | 176 | 183.4 | 55.5 | 102 | 100 | 180 | 56 | 24 | M8x19 | 50 | 40 | 5 | 8 | 20 | 27 | 90 | 12 | 4-φ10 | 1-M25x1.5 | 356 | 12 | 125 | 102 | 165 | 130 | 200 | 12 | 3.5 |
| 90L | 2,4,6,8 | 140 | 36 | 176 | 183.4 | 55.5 | 102 | 125 | 210 | 56 | 24 | M8x19 | 50 | 40 | 5 | 8 | 20 | 27 | 90 | 12 | 4-φ10 | 1-M25x1.5 | 386 | 12 | 125 | 102 | 165 | 130 | 200 | 12 | 3.5 |
| 100L | 2,4,6,8 | 160 | 40 | 200 | 205.4 | 167 | 102 | 140 | 213 | 63 | 28 | M10x22 | 60 | 50 | 5 | 8 | 24 | 31 | 100 | 14 | 4-φ12 | 1-M32x1.5 | 411 | 13 | 147 | 102 | 215 | 180 | 250 | 14.5 | 4 |
| 112M | 2,4,6,8 | 190 | 50 | 240 | 230 | 188 | 118 | 140 | 188 | 70 | 28 | M10x22 | 60 | 50 | 5 | 8 | 24 | 31 | 112 | 15 | 4-φ12 | 2-M32x1.5 | 394 | 14 | 147 | 110 | 215 | 180 | 250 | 14.5 | 4 |
| 132S | 2,4,6,8 | 216 | 55 | 262 | 292.4 | 217 | 118 | 140 | 226 | 89 | 38 | M12x28 | 80 | 65 | 7.5 | 10 | 33 | 41 | 132 | 18 | 4-φ12 | 2-M32x1.5 | 503 | 14 | 179 | 110 | 265 | 230 | 300 | 14.5 | 4 |
| 132M | 2,4,6,8 | 216 | 55 | 262 | 292.4 | 217 | 118 | 178 | 256 | 89 | 38 | M12x28 | 80 | 65 | 7.5 | 10 | 33 | 41 | 132 | 18 | 4-φ12 | 2-M32x1.5 | 533 | 14 | 179 | 110 | 265 | 230 | 300 | 14.5 | 4 |
| 160M | 2,4,6,8 | 254 | 65 | 314 | 335 | 256 | 162 | 210 | 315 | 108 | 42 | M16x36 | 110 | 90 | 10 | 12 | 37 | 45 | 160 | 20 | 4-φ14.5 | 2-M40x1.5 | 648 | 15 | 248 | 152 | 300 | 250 | 350 | 18.5 | 5 |
| 160L | 2,4,6,8 | 254 | 65 | 314 | 335 | 256 | 162 | 254 | 355 | 108 | 42 | M16x36 | 110 | 90 | 10 | 12 | 37 | 45 | 160 | 20 | 4-φ14.5 | 2-M40x1.5 | 688 | 15 | 248 | 152 | 300 | 250 | 350 | 18.5 | 5 |
| 180M | 2,4,8 | 279 | 70 | 349 | 363 | 271 | 162 | 241 | 359 | 121 | 48 | M16x36 | 110 | 90 | 10 | 14 | 42.5 | 51.5 | 180 | 22 | 4-φ14.5 | 2-M40x1.5 | 711 | 15 | 271 | 152 | 300 | 250 | 350 | 18.5 | 5 |
| 180L | 2,4,8 | 279 | 70 | 349 | 363 | 271 | 162 | 279 | 360 | 121 | 48 | M16x36 | 110 | 90 | 10 | 14 | 42.5 | 51.5 | 180 | 22 | 4-φ14.5 | 2-M40x1.5 | 746 | 15 | 271 | 152 | 300 | 250 | 350 | 18.5 | 5 |
| 200L | 2,4,6,8 | 318 | 70 | 395 | 418 | 312 | 210 | 305 | 372 | 133 | 55 | M20x42 | 110 | 100 | 5 | 16 | 49 | 59 | 200 | 25 | 4-φ18.5 | 2-M50x1.5 | 846 | 17 | 296 | 190 | 350 | 300 | 400 | 18.5 | 5 |
| 225S | 4,8 | 356 | 75 | 431 | 465 | 334 | 210 | 286 | 431 | 149 | 60 | M20x42 | 140 | 125 | 7.5 | 18 | 53 | 64 | 225 | 28 | 4-φ18.5 | 2-M50x1.5 | 880 | 20 | 330 | 190 | 400 | 350 | 450 | 18.5 | 5 |
| 225M | 2 | 356 | 75 | 431 | 465 | 334 | 210 | 311 | 466 | 149 | 55 | M20x42 | 110 | 100 | 5 | 16 | 49 | 59 | 225 | 28 | 4-φ18.5 | 2-M50x1.5 | 885 | 20 | 299 | 190 | 400 | 350 | 450 | 18.5 | 5 |
| 225S | 4,6,8 | 356 | 75 | 431 | 465 | 334 | 210 | 311 | 466 | 149 | 60 | M20x42 | 140 | 125 | 7.5 | 18 | 53 | 64 | 225 | 28 | 4-φ18.5 | 2-M50x1.5 | 915 | 20 | 330 | 190 | 400 | 350 | 450 | 18.5 | 5 |
| 250M | 2 | 406 | 80 | 484 | 525 | 379 | 248 | 349 | 515 | 168 | 60 | M20x42 | 140 | 125 | 7.5 | 18 | 53 | 64 | 250 | 30 | 4-φ24 | 2-M63x1.5 | 980 | 22 | 347 | 220 | 500 | 450 | 550 | 18.5 | 5 |
| 250M | 4,6,8 | 406 | 80 | 484 | 525 | 379 | 248 | 349 | 515 | 168 | 65 | M20x42 | 140 | 125 | 7.5 | 18 | 58 | 69 | 250 | 30 | 4-φ24 | 2-M63x1.5 | 980 | 22 | 347 | 220 | 500 | 450 | 550 | 18.5 | 5 |
| 280S | 2 | 457 | 85 | 542 | 588 | 412 | 248 | 368 | 510 | 190 | 65 | M20x42 | 140 | 125 | 7.5 | 18 | 58 | 69 | 280 | 35 | 4-φ24 | 2-M63x1.5 | 980 | 22 | 355 | 220 | 500 | 450 | 550 | 18.5 | 5 |
| 280S | 4,6,8 | 457 | 85 | 542 | 588 | 412 | 248 | 368 | 510 | 190 | 75 | M20x42 | 140 | 125 | 7.5 | 20 | 67.5 | 79.5 | 280 | 35 | 4-φ24 | 2-M63x1.5 | 980 | 22 | 355 | 220 | 500 | 450 | 550 | 18.5 | 5 |
| 280M | 2 | 457 | 85 | 542 | 588 | 412 | 248 | 419 | 550 | 190 | 65 | M20x42 | 140 | 125 | 7.5 | 18 | 58 | 69 | 280 | 35 | 4-φ24 | 2-M63x1.5 | 1020 | 22 | 355 | 220 | 500 | 450 | 550 | 18.5 | 5 |
| 280M | 4,6,8 | 457 | 85 | 542 | 588 | 412 | 248 | 419 | 550 | 190 | 75 | M20x42 | 140 | 125 | 7.5 | 20 | 67.5 | 79.5 | 280 | 35 | 4-φ24 | 2-M63x1.5 | 1020 | 22 | 355 | 220 | 500 | 450 | 550 | 18.5 | 5 |
| 315S | 2 | 508 | 120 | 628 | 620 | 524 | 320 | 406 | 570 | 216 | 65 | M20x42 | 140 | 125 | 7.5 | 18 | 58 | 69 | 315 | 45 | 4-φ28 | 2-M63x1.5 | 1158 | 22 | 397 | 280 | 600 | 550 | 660 | 24 | 6 |
| 315S | 4,6,8,10 | 508 | 120 | 628 | 620 | 524 | 320 | 406 | 570 | 216 | 80 | M20x42 | 170 | 160 | 5 | 22 | 71 | 85 | 315 | 45 | 4-φ28 | 2-M63x1.5 | 1188 | 22 | 427 | 280 | 600 | 550 | 660 | 24 | 6 |
| 315M | 2 | 508 | 120 | 628 | 620 | 524 | 320 | 457 | 680 | 216 | 65 | M20x42 | 140 | 125 | 7.5 | 18 | 58 | 69 | 315 | 45 | 4-φ28 | 2-M63x1.5 | 1268 | 22 | 397 | 280 | 600 | 550 | 660 | 24 | 6 |
| 315M | 4,6,8,10 | 508 | 120 | 628 | 620 | 524 | 320 | 457 | 680 | 216 | 80 | M20x42 | 170 | 160 | 5 | 22 | 71 | 85 | 315 | 45 | 4-φ28 | 2-M63x1.5 | 1298 | 22 | 427 | 280 | 600 | 550 | 660 | 24 | 6 |
| 315L | 2 | 508 | 120 | 628 | 620 | 524 | 320 | 508 | 680 | 216 | 65 | M20x42 | 140 | 125 | 7.5 | 18 | 58 | 69 | 315 | 45 | 4-φ28 | 2-M63x1.5 | 1268 | 22 | 397 | 280 | 600 | 550 | 660 | 24 | 6 |
| 315L | 4,6,8,10 | 508 | 120 | 628 | 620 | 524 | 320 | 508 | 680 | 216 | 80 | M20x42 | 170 | 160 | 5 | 22 | 71 | 85 | 315 | 45 | 4-φ28 | 2-M63x1.5 | 1298 | 22 | 427 | 280 | 600 | 550 | 660 | 24 | 6 |
| 355M | 2 | 610 | 116 | 726 | 698 | 639 | 380 | 560 | 750 | 254 | 75 | M20x42 | 140 | 130 | 5 | 20 | 67.5 | 79.5 | 355 | 52 | 6-φ28 | 2-M63x1.5 | 1496 | 25 | 422 | 330 | 740 | 680 | 800 | 24 | 6 |
| 355M | 4,6,8,10 | 610 | 116 | 726 | 698 | 639 | 380 | 560 | 750 | 254 | 95 | M24x50 | 170 | 160 | 5 | 25 | 86 | 100 | 355 | 52 | 6-φ28 | 2-M63x1.5 | 1536 | 25 | 452 | 330 | 740 | 680 | 800 | 24 | 6 |
| 355L | 2 | 610 | 116 | 726 | 698 | 639 | 380 | 630 | 750 | 254 | 75 | M20x42 | 140 | 130 | 5 | 20 | 67.5 | 79.5 | 355 | 52 | 6-φ28 | 2-M63x1.5 | 1496 | 25 | 422 | 330 | 740 | 680 | 800 | 24 | 6 |
| 355L | 4,6,8,10 | 610 | 116 | 726 | 698 | 639 | 380 | 630 | 750 | 254 | 95 | M24x50 | 170 | 160 | 5 | 25 | 86 | 100 | 355 | 52 | 6-φ28 | 2-M63x1.5 | 1536 | 25 | 452 | 330 | 740 | 680 | 800 | 24 | 6 |

AMP Series Three-Phase Motors

- FEATURES
- Continuous Duty ±40°C Ambient Temperature
- Cast Iron Frames
- Ball Bearings
- IP55 Protection



IM B3

IM B35

Overall & Installation Dimensions

| FRAME | Poles | Foot Mounting | | | | | Shaft | | | | | B5 | | | | | General | | | | |
|--------|---------|---------------|-----|---------|-----|-----|-------|-----|----|----|------|------|------|------|-----|-----|---------|-----|-----|------|---------|
| | | h | b10 | 110 | 131 | d10 | d1 | l1 | b1 | h1 | h5 | d25 | d20 | d24 | 120 | 139 | d22 | b11 | h31 | d30 | 130 |
| 80S/M | 2,4,6,8 | 80 | 125 | 100 | 50 | φ10 | φ22 | 50 | 6 | 6 | 24.5 | φ130 | φ165 | φ200 | 3.5 | 0 | 4-φ12 | 160 | 205 | φ158 | 300/320 |
| 90L | 2,4,6,8 | 90 | 140 | 125 | 56 | φ10 | φ24 | 50 | 8 | 7 | 27 | φ180 | φ215 | φ250 | 4.0 | 0 | 4-φ15 | 175 | 220 | φ176 | 350 |
| 100S/L | 2,4,6,8 | 100 | 160 | 112/140 | 63 | φ12 | φ28 | 60 | 8 | 7 | 31 | φ180 | φ215 | φ250 | 4.0 | 0 | 4-φ15 | 200 | 245 | φ199 | 376/420 |
| 112S/M | 2,4,6,8 | 112 | 190 | 140 | 70 | φ12 | φ32 | 80 | 10 | 8 | 35 | φ230 | φ265 | φ300 | 4.0 | 0 | 4-φ15 | 230 | 290 | φ220 | 440/475 |
| 132S/M | 2,4,6,8 | 132 | 216 | 140/178 | 89 | φ12 | φ38 | 80 | 10 | 8 | 41 | φ250 | φ300 | φ350 | 5.0 | 0 | 4-φ19 | 255 | 330 | φ259 | 467/505 |
| 160S/M | 2 | 160 | 254 | 178/210 | 108 | φ15 | φ42 | 110 | 12 | 8 | 45 | φ250 | φ300 | φ350 | 5.0 | 0 | 4-φ19 | 314 | 402 | φ313 | 605/645 |
| | 4,6,8 | 160 | 254 | 178/210 | 108 | φ15 | φ48 | 110 | 14 | 9 | 51.5 | φ250 | φ300 | φ350 | 5.0 | 0 | 4-φ19 | 314 | 402 | φ313 | 605/645 |
| 180S/M | 2 | 180 | 279 | 203/241 | 121 | φ15 | φ48 | 110 | 14 | 9 | 51.5 | φ300 | φ350 | φ400 | 5.0 | 0 | 4-φ19 | 348 | 439 | φ360 | 645/705 |
| | 4,6,8 | 180 | 279 | 203/241 | 121 | φ15 | φ55 | 110 | 16 | 10 | 59 | φ300 | φ350 | φ400 | 5.0 | 0 | 4-φ19 | 348 | 439 | φ360 | 645/705 |
| 200M/L | 2 | 200 | 318 | 267/305 | 133 | φ19 | φ55 | 110 | 16 | 10 | 59 | φ350 | φ400 | φ450 | 5.0 | 0 | 4-φ19 | 388 | 497 | φ399 | 720/805 |
| | 4,6,8 | 200 | 318 | 267/305 | 133 | φ19 | φ60 | 140 | 18 | 11 | 64 | φ350 | φ400 | φ450 | 5.0 | 0 | 4-φ19 | 388 | 497 | φ399 | 750/835 |
| 225M | 2 | 225 | 356 | 311 | 149 | φ19 | φ55 | 110 | 16 | 10 | 59 | φ450 | φ500 | φ550 | 5.0 | 0 | 8-φ19 | 436 | 553 | φ465 | 840 |
| | 4,6,8 | 225 | 356 | 311 | 149 | φ19 | φ65 | 140 | 18 | 11 | 69 | φ450 | φ500 | φ550 | 5.0 | 0 | 8-φ19 | 436 | 553 | φ465 | 840/870 |
| 250S/M | 2 | 250 | 406 | 311/349 | 168 | φ24 | φ65 | 140 | 18 | 11 | 69 | φ450 | φ500 | φ550 | 5.0 | 0 | 8-φ19 | 484 | 616 | φ506 | 930 |
| | 4,6,8 | 250 | 406 | 311/349 | 168 | φ24 | φ75 | 140 | 20 | 12 | 79.5 | φ450 | φ500 | φ550 | 5.0 | 0 | 8-φ19 | 484 | 616 | φ506 | 930 |
| 280S/M | 2 | 280 | 457 | 368 | | | | | | | | | | | | | | | | | |

Technical Data

| Model | Power (kw) | Speed (r/min) | Current At 380V (A) | Eff (%) | Power factor (cos φ) | T _{min} /T _n (Times) | T _{max} /T _n (Times) | I ₀ /I _n (Times) | W.T (kg) |
|------------|------------|---------------|---------------------|---------|----------------------|--|--|--|----------|
| AIP 80A-2 | 1.5 | 2840 | 3.5 | 77.2 | 0.84 | 2.5 | 2.7 | 6.4 | 15.70 |
| AIP 80B-2 | 2.2 | 2840 | 4.9 | 79.7 | 0.85 | 3.1 | 3 | 7 | 18.00 |
| AIP 90L-2 | 3 | 2840 | 6.4 | 81.5 | 0.87 | 2.7 | 2.9 | 7 | 26.50 |
| AIP 100S-2 | 4 | 2860 | 8.15 | 83.1 | 0.88 | 2.4 | 2.9 | 7 | 31.50 |
| AIP 100L-2 | 5.5 | 2860 | 11.2 | 84.7 | 0.86 | 2.9 | 3.3 | 7.5 | 35.50 |
| AIP 112M-2 | 7.5 | 2880 | 15.1 | 86.0 | 0.88 | 3.1 | 3.3 | 7.5 | 46.80 |
| AIP 132M-2 | 11 | 2900 | 21.9 | 87.6 | 0.89 | 3.2 | 3.6 | 7.5 | 73.50 |
| AIP 160S-2 | 15 | 2930 | 29 | 88.7 | 0.89 | 2.3 | 3.2 | 7.5 | 118.50 |
| AIP 160M-2 | 18.5 | 2930 | 35.8 | 89.3 | 0.90 | 2.3 | 3.2 | 7.5 | 135.00 |
| AIP 180S-2 | 22 | 2940 | 42.9 | 89.9 | 0.90 | 2.3 | 3 | 7.5 | 153.00 |
| AIP 180M-2 | 30 | 2940 | 57 | 90.7 | 0.90 | 2.3 | 3.1 | 7.5 | 177.00 |
| AIP 200M-2 | 37 | 2950 | 70 | 91.2 | 0.90 | 2.4 | 2.9 | 7 | 235.00 |
| AIP 200L-2 | 45 | 2950 | 85 | 91.7 | 0.90 | 2.3 | 2.9 | 6.5 | 255.00 |
| AIP 225M-2 | 55 | 2960 | 101 | 92.1 | 0.90 | 2.5 | 2.9 | 7 | 345.00 |
| AIP 250S-2 | 75 | 2960 | 137 | 92.7 | 0.90 | 2.5 | 3 | 7.5 | 422.00 |
| AIP 250M-2 | 90 | 2960 | 162 | 93.0 | 0.91 | 2.7 | 3.2 | 7.5 | 438.00 |
| AIP 280S-2 | 110 | 2970 | 195.8 | 93.3 | 0.91 | 2.5 | 3.1 | 7.5 | 670.00 |
| AIP 280M-2 | 132 | 2970 | 234.9 | 93.5 | 0.91 | 2.4 | 2.9 | 7.5 | 700.00 |
| AIP 315S-2 | 160 | 2970 | 279 | 93.8 | 0.92 | 2.2 | 1.8 | 7.5 | 1120.00 |
| AIP 315M-2 | 200 | 2970 | 348 | 94.0 | 0.92 | 2.2 | 1.8 | 7.2 | 1190.00 |
| AIP 355S-2 | 250 | 2980 | 439 | 94.0 | 0.92 | 1.9 | 2.3 | 7.2 | 1690.00 |
| AIP 355M-2 | 315 | 2980 | 553 | 94.0 | 0.92 | 1.9 | 2.3 | 7 | 1850.00 |

| | | | | | | | | | |
|------------|------|------|-------|------|------|-----|-----|-----|---------|
| AIP 80A-4 | 1.1 | 1390 | 2.75 | 75.0 | 0.77 | 2.6 | 2.3 | 5.5 | 15.70 |
| AIP 80B-4 | 1.5 | 1390 | 3.8 | 77.2 | 0.77 | 2.8 | 2.4 | 5.5 | 19.00 |
| AIP 90L-4 | 2.2 | 1400 | 5.3 | 79.7 | 0.81 | 2.8 | 2.4 | 6 | 24.50 |
| AIP 100S-4 | 3 | 1420 | 6.7 | 81.5 | 0.82 | 2.4 | 2.8 | 6.5 | 33.40 |
| AIP 100L-4 | 4 | 1430 | 8.8 | 83.1 | 0.82 | 2.5 | 2.6 | 6.5 | 35.30 |
| AIP 112M-4 | 5.5 | 1440 | 11.9 | 84.7 | 0.83 | 2.6 | 2.6 | 7 | 46.80 |
| AIP 132S-4 | 7.5 | 1440 | 15.8 | 86.0 | 0.84 | 2.4 | 2.9 | 7.5 | 72.00 |
| AIP 132M-4 | 11 | 1440 | 22.7 | 87.6 | 0.84 | 3 | 2.9 | 7.5 | 85.00 |
| AIP 160S-4 | 15 | 1460 | 30.2 | 88.7 | 0.85 | 2.3 | 2.6 | 7.5 | 125.00 |
| AIP 160M-4 | 18.5 | 1460 | 36.6 | 89.3 | 0.86 | 2.8 | 3 | 7.5 | 150.00 |
| AIP 180S-4 | 22 | 1470 | 43.2 | 89.9 | 0.86 | 2.8 | 3 | 7.5 | 162.00 |
| AIP 180M-4 | 30 | 1470 | 58.2 | 90.7 | 0.86 | 2.7 | 3 | 7.5 | 230.00 |
| AIP 200M-4 | 37 | 1470 | 70.1 | 91.2 | 0.87 | 2.8 | 3.1 | 7.5 | 241.00 |
| AIP 200L-4 | 45 | 1470 | 85.3 | 91.7 | 0.87 | 2.8 | 3.2 | 7.5 | 276.00 |
| AIP 225M-4 | 55 | 1480 | 103.5 | 92.1 | 0.87 | 2.3 | 2.6 | 7 | 360.00 |
| AIP 250S-4 | 75 | 1480 | 142.4 | 92.7 | 0.87 | 2.5 | 2.6 | 7.5 | 420.00 |
| AIP 250M-4 | 90 | 1480 | 170 | 93.0 | 0.87 | 2.4 | 2.5 | 7 | 450.00 |
| AIP 280S-4 | 110 | 1480 | 203 | 93.3 | 0.88 | 2.5 | 2.6 | 7 | 630.00 |
| AIP 280M-4 | 132 | 1480 | 244 | 93.5 | 0.88 | 2.7 | 2.5 | 7.5 | 740.00 |
| AIP 315S-4 | 160 | 1480 | 291 | 93.8 | 0.89 | 2.3 | 2.1 | 6.5 | 1120.00 |
| AIP 315M-4 | 200 | 1480 | 360 | 94.0 | 0.89 | 2.3 | 2.4 | 5.5 | 1270.00 |
| AIP 355S-4 | 250 | 1490 | 444 | 94.0 | 0.90 | 2.2 | 2.1 | 6.5 | 1640.00 |
| AIP 355M-4 | 315 | 1490 | 566 | 94.0 | 0.90 | 2.2 | 2.1 | 7 | 1850.00 |

Technical Data

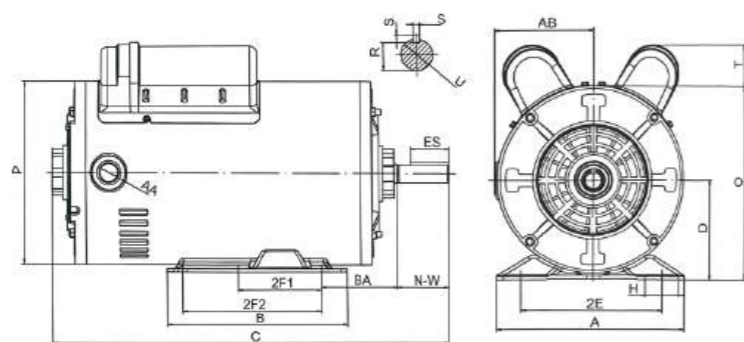
| Model | Power (kw) | Speed (r/min) | Current At 380V (A) | Eff (%) | Power factor (cos φ) | T _{min} /T _n (Times) | T _{max} /T _n (Times) | I ₀ /I _n (Times) | W.T (kg) |
|-------------|------------|---------------|---------------------|---------|----------------------|--|--|--|----------|
| AIP 80A-6 | 0.75 | 890 | 2.3 | 70.0 | 0.72 | 2.6 | 2.3 | 5.5 | 15.70 |
| AIP 80B-6 | 1.1 | 890 | 3.2 | 72.9 | 0.72 | 2.4 | 2.6 | 4 | 18.00 |
| AIP 90L-6 | 1.5 | 910 | 3.9 | 75.2 | 0.75 | 2.3 | 2.6 | 5 | 25.60 |
| AIP 100L-6 | 2.2 | 920 | 5.6 | 77.7 | 0.76 | 2.3 | 2.4 | 5 | 33.50 |
| AIP 112MA-6 | 3 | 930 | 7.6 | 79.7 | 0.76 | 2.6 | 3 | 6.5 | 42.50 |
| AIP 112MB-6 | 4 | 930 | 9.7 | 81.4 | 0.76 | 2.6 | 2.7 | 6 | 47.50 |
| AIP 132S-6 | 5.5 | 960 | 12.9 | 83.1 | 0.77 | 2.5 | 2.7 | 7 | 68.50 |
| AIP 132M-6 | 7.5 | 960 | 16.8 | 84.7 | 0.78 | 2.8 | 2.7 | 7 | 73.50 |
| AIP 160S-6 | 11 | 970 | 23.9 | 86.4 | 0.78 | 2.6 | 2.4 | 7 | 125.00 |
| AIP 160M-6 | 15 | 970 | 31.6 | 87.7 | 0.81 | 2.7 | 2.7 | 7 | 157.00 |
| AIP 180M-6 | 18.5 | 970 | 38.6 | 88.6 | 0.81 | 2.7 | 2.9 | 7 | 188.00 |
| AIP 200M-6 | 22 | 980 | 45.4 | 89.2 | 0.83 | 2.4 | 2.7 | 7 | 218.00 |
| AIP 200L-6 | 30 | 980 | 60.6 | 90.2 | 0.84 | 3 | 3.2 | 7.5 | 245.00 |
| AIP 225M-6 | 37 | 980 | 73.5 | 90.8 | 0.86 | 2.7 | 2.8 | 7.5 | 323.00 |
| AIP 250S-6 | 45 | 980 | 87 | 91.4 | 0.86 | 2.6 | 2.8 | 7.5 | 326.00 |
| AIP 250M-6 | 55 | 980 | 106 | 91.9 | 0.86 | 2.7 | 2.6 | 7.5 | 370.00 |
| AIP 280S-6 | 75 | 980 | 143.2 | 92.6 | 0.86 | 2.5 | 2.6 | 7 | 685.00 |
| AIP 280M-6 | 90 | 980 | 171 | 92.9 | 0.86 | 2.8 | 2.6 | 6.5 | 725.00 |
| AIP 315S-6 | 110 | 990 | 209 | 93.3 | 0.86 | 2.2 | 2.7 | 6 | 1110.00 |
| AIP 315M-6 | 132 | 990 | 247 | 93.5 | 0.87 | 2.2 | 2.5 | 6.5 | 1210.00 |
| AIP 355S-6 | 160 | 990 | 298 | 93.8 | 0.88 | 2 | 1.9 | 6.5 | 1540.00 |
| AIP 355M-6 | 200 | 990 | 372 | 94.0 | 0.88 | 2 | 1.9 | 6.5 | 1700.00 |

| | | | | | | | | | |
|-------------|------|-----|------|------|------|-----|-----|-----|---------|
| AIP 80A-8 | 0.37 | 650 | 1.6 | 49.7 | 0.61 | 2.3 | 2.2 | 3 | 15.50 |
| AIP 80B-8 | 0.55 | 650 | 2.2 | 56.1 | 0.61 | 2.1 | 2.6 | 3 | 17.70 |
| AIP 90LA-8 | 0.75 | 660 | 2.6 | 61.2 | 0.67 | 2 | 2.4 | 3 | 23.00 |
| AIP 90LB-8 | 1.1 | 660 | 3.3 | 66.5 | 0.69 | 2.2 | 2.4 | 3.5 | 26.00 |
| AIP 100L-8 | 1.5 | 680 | 4.3 | 70.2 | 0.70 | 2.5 | 2.7 | 4 | 34.00 |
| AIP 112MA-8 | 2.2 | 690 | 6.1 | 74.2 | 0.71 | 2.4 | 2.7 | 5 | 46.50 |
| AIP 112MB-8 | 3 | 690 | 7.6 | 77.0 | 0.73 | 2.4 | 2.6 | 5 | 50.00 |
| AIP 132S-8 | 4 | 710 | 9.9 | 79.2 | 0.73 | 2.7 | 2.7 | 6 | 73.00 |
| AIP 132M-8 | 5.5 | 710 | 13.3 | 81.4 | 0.74 | 2.3 | 2.4 | 5.5 | 86.00 |
| AIP 160S-8 | 7.5 | 720 | 17.5 | 83.1 | 0.75 | 2.6 | 2.6 | 6 | 125.00 |
| AIP 160M-8 | 11 | 720 | 25.6 | 85.0 | 0.76 | 2.4 | 2.5 | 6 | 174.50 |
| AIP 180M-8 | 15 | 730 | 34.1 | 86.2 | 0.76 | 2.7 | 2.9 | 7 | 195.00 |
| AIP 200M-8 | 18.5 | 730 | 41.7 | 86.9 | 0.76 | 2.5 | 2.8 | 7 | 240.00 |
| AIP 200L-8 | 22 | 730 | 48.1 | 87.4 | 0.78 | 2.5 | 2.9 | 7 | 255.00 |
| AIP 225M-8 | 30 | 740 | 64.3 | 88.3 | 0.79 | 2.4 | 2.5 | 6 | 335.00 |
| AIP 250S-8 | 37 | 740 | 78.8 | 88.8 | 0.79 | 2.2 | 2.5 | 6 | 350.00 |
| AIP 250M-8 | 45 | 740 | 95.4 | 89.2 | 0.79 | 2.4 | 2.5 | 6 | 413.00 |
| AIP 280S-8 | 55 | 740 | 113 | 89.7 | 0.81 | 2.7 | 2.9 | 7 | 670.00 |
| AIP 280M-8 | 75 | 740 | 154 | 90.3 | 0.81 | 2.8 | 2.9 | 7 | 760.00 |
| AIP 315S-8 | 90 | 740 | 178 | 90.7 | 0.82 | 2 | 1.8 | 6 | 1120.00 |
| AIP 315M-8 | 110 | 740 | 217 | 91.1 | 0.82 | 2 | 1.8 | 6 | 1230.00 |
| AIP 355S-8 | 132 | 740 | 264 | 91.5 | 0.82 | 2 | 1.8 | 6 | 1540.00 |
| AIP 355M-8 | 160 | 740 | 317 | 91.9 | 0.82 | 2 | 1.8 | 6 | 1700.00 |

AC MOTOR

Single-Phase, Dripproof, General Purpose, Capacitor Start & Run Motor

- Features:
- HP: 1/3-2HP
 - Pole: 2P, 4P
 - Frame: 56-215T
 - Enclosure: ODP
 - IP Class: IP23
 - Service Factor: 1.15
 - Capacitor Start and Capacitor Run
 - Accept C-face Kit
 - Accept Manual or Auto Thermal Protector



Overall & Installation Dimensions

| FRAME | A | B | D | 2E | 2F1 | 2F2 | BA | H | U | N-W | R | ES | S | AA | AB | O | T | P | Bearing DE | Bearing NDE |
|-------|------|------|-----|------|------|-----|------|-----------|-------|-------|-------|-------|--------|-----------|------|------|------|------|------------|-------------|
| 48 | 5.69 | 3.94 | 3 | 4.24 | 2.75 | / | 2.5 | 1.05×0.34 | 0.5 | 1.5 | 0.453 | / | / | 1/2-14NPT | 2.92 | 5.83 | 1.47 | 5.67 | 6203 | 6203 |
| 56 | 6.54 | 4.02 | 3.5 | 4.88 | 3 | / | 2.75 | 1.22×0.34 | 0.625 | 1.875 | 0.517 | 1.375 | 0.1875 | 1/2-14NPT | 2.92 | 6.33 | 1.47 | 5.67 | 6203 | 6203 |
| 56H | 6.54 | 6.5 | 3.5 | 4.88 | 3 | 5 | 2.75 | 1.22×0.34 | 0.625 | 1.875 | 0.517 | 1.375 | 0.1875 | 1/2-14NPT | 3.33 | 6.75 | 1.47 | 6.46 | 6203 | 6203 |
| 140T | 6.55 | 5.9 | 3.5 | 5.5 | 4 | 5 | 2.75 | 0.5×0.35 | 0.875 | 2.25 | 0.771 | 1.375 | 0.1875 | 1/2-14NPT | 3.33 | 6.75 | 1.47 | 6.46 | 6205 | 6203 |

Technical Parameter

| Model | HP | RPM 60HZ | NEMA FRAME | Volts | HZ | ENCL | S.F | Full Load AMPS | WGT. LBS. |
|-------------|-----|----------|------------|-------------|----|------|------|-----------------|-----------|
| D56 1/3S2C | 1/3 | 3600 | 56 | 115/208-230 | 60 | ODP | 1.15 | 4.4/2.25-2.35 | 23 |
| D56 1/3S4C | 1/3 | 1800 | 56 | 115/208-230 | 60 | ODP | 1.15 | 4.3/2.3-2.1 | 24.5 |
| D56 1/2S2C | 1/2 | 3600 | 56 | 115/208-230 | 60 | ODP | 1.15 | 6.0/3.06-3.11 | 24 |
| D56 1/2S4C | 1/2 | 1800 | 56 | 115/208-230 | 60 | ODP | 1.15 | 5.8/3.0-2.8 | 25 |
| D56 3/4S2C | 3/4 | 3600 | 56 | 115/208-230 | 60 | ODP | 1.15 | 8.1/4.2-4.1 | 26 |
| D56 3/4S4C | 3/4 | 1800 | 56 | 115/208-230 | 60 | ODP | 1.15 | 8.27/4-4.22 | 29 |
| D56 1S2C | 1 | 3600 | 56 | 115/208-230 | 60 | ODP | 1.15 | 9.66/5.37-5.24 | 30 |
| D56 1S4C | 1 | 1800 | 56 | 115/208-230 | 60 | ODP | 1.15 | 9.5/4.73-4.87 | 38 |
| D143T1S4C | 1 | 1800 | 143T | 115/208-230 | 60 | ODP | 1.15 | 11.5/6.0-5.7 | 41 |
| D56 1.5S2C | 1.5 | 3600 | 56 | 115/208-230 | 60 | ODP | 1.15 | 13/6.98-6.58 | 37 |
| D561.5S4C | 1.5 | 1800 | 56 | 115/208-230 | 60 | ODP | 1.15 | 14.2/7.37-7.23 | 42 |
| D145T1.5S4C | 1.5 | 1800 | 145T | 115/208-230 | 60 | ODP | 1.15 | 15/8.1-7.6 | 45 |
| D145T1.5S2C | 2 | 3600 | 145T | 115/208-230 | 60 | ODP | 1.15 | 14.5/8.0-7.6 | 41 |
| D56 2S2C | 2 | 3600 | 56 | 115/208-230 | 60 | ODP | 1.15 | 17.24/8.55-7.96 | 44 |
| D56 2S4C | 2 | 1800 | 56 | 115/208-230 | 60 | ODP | 1.15 | 18.9/9.96 | 47 |
| D145T2S4C | 2 | 1800 | 145T | 115/208-230 | 60 | ODP | 1.15 | 19.0/10-9.3 | 50 |

YL/YCL

Single-Phase Asynchronous Motors Cast iron Housing

Product introduction:

The housing, front and back cover are made of cast-iron, with high hardness, strong bearing capacity, firm structure and uneasy to deform. This product adopts external centrifugal switch design to increase the height of stator and rotor inside the motor, which results in the high starting power and stable operation performance of motor. YL/YCL electric motor is widely used for single-phase heavy-loading starting equipment such as crushers, cranes, cement mixers and etc.



(50HZ) Technical Data Of YL/YCL Single Phase Two-value Capacitor Asynchronous Motor

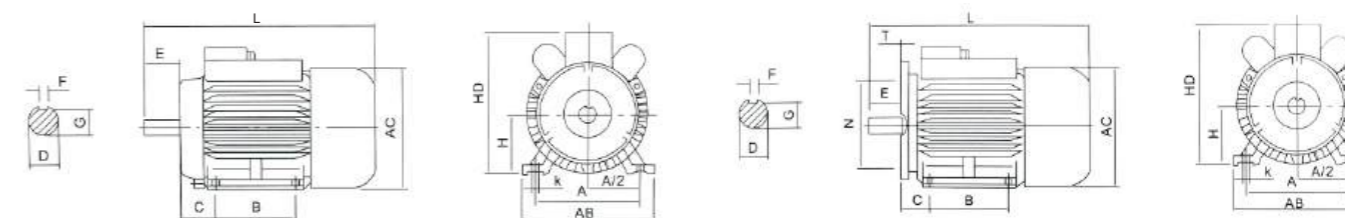
| Model | Rated Output | | Voltage (V) | Ts/Tn | Rated Torque | Power factor | Eff (%) | Speed (r/min) | Rated Current (A) |
|------------|--------------|------|-------------|-------|--------------|--------------|---------|---------------|-------------------|
| | (kw) | (HP) | | | | | | | |
| YCL80M1-2 | 0.37 | 0.5 | 220 | 2.8 | 1.3 | 0.95 | 65 | 2780 | 2.72 |
| YCL80M2-2 | 0.55 | 0.75 | 220 | 2.8 | 1.9 | 0.95 | 68 | 2780 | 3.87 |
| YCL90S-2 | 0.75 | 1.1 | 220 | 2.5 | 2.6 | 0.95 | 70 | 2800 | 5.13 |
| YCL90L-2 | 1.1 | 1.5 | 220 | 2.5 | 3.8 | 0.95 | 72 | 2800 | 7.31 |
| YCL100L1-2 | 1.5 | 2 | 220 | 2.5 | 5.1 | 0.93 | 74 | 2820 | 9.91 |
| YCL100L2-2 | 2.2 | 3 | 220 | 2.2 | 7.5 | 0.91 | 75 | 2820 | 14.65 |
| YCL112M-2 | 3 | 4 | 220 | 2.2 | 10.1 | 0.9 | 76 | 2830 | 19.94 |
| YCL132S-2 | 3.7 | 5 | 220 | 2.2 | 12.4 | 0.9 | 77 | 2850 | 24.27 |

| | | | | | | | | | |
|------------|------|------|-----|-----|------|------|----|------|------|
| YCL80M1-4 | 0.25 | 0.3 | 220 | 2.8 | 1.7 | 0.93 | 58 | 1390 | 2.11 |
| YCL80M2-4 | 0.37 | 0.5 | 220 | 2.5 | 2.5 | 0.93 | 62 | 1390 | 2.92 |
| YCL90S-4 | 0.55 | 0.75 | 220 | 2.5 | 3.8 | 0.92 | 66 | 1400 | 4.12 |
| YCL90L-4 | 0.75 | 1.1 | 220 | 2.5 | 5.1 | 0.92 | 68 | 1400 | 5.45 |
| YCL100L1-4 | 1.1 | 1.5 | 220 | 2.5 | 7.5 | 0.9 | 71 | 1410 | 7.82 |
| YCL100L2-4 | 1.5 | 2 | 220 | 2.5 | 10.2 | 0.9 | 73 | 1410 | 10.4 |
| YCL112M-4 | 2.2 | 3 | 220 | 2.2 | 14.8 | 0.9 | 74 | 1420 | 15.0 |
| YCL132S-4 | 3 | 4 | 220 | 2.2 | 20.2 | 0.9 | 75 | 1420 | 20.2 |
| YCL132M-4 | 3.7 | 5 | 220 | 2.2 | 24.7 | 0.9 | 76 | 1430 | 24.6 |

YC series Heavy-Duty Single-Phase Capacitors Start Induction Motor

| Model | Power (W) | Rated Current (A) | Speed (r/min) | Eff (%) | Power factor | Ts/Tn | Locked-Rotor Current (A) |
|-----------|-----------|-------------------|---------------|---------|--------------|-------|--------------------------|
| YC711-2 | 180 | 1.9 | 2800 | 60 | 0.72 | 3.0 | 12 |
| YC712-2 | 250 | 2.4 | 2800 | 64 | 0.74 | 3.0 | 15 |
| YC711-4 | 120 | 1.9 | 1400 | 50 | 0.58 | 3.0 | 9 |
| YC712-4 | 180 | 2.5 | 1400 | 53 | 0.62 | 2.8 | 12 |
| YC801-2 | 370 | 3.4 | 2800 | 65 | 0.77 | 2.8 | 21 |
| YC802-2 | 550 | 4.7 | 2800 | 68 | 0.79 | 2.8 | 29 |
| YC801-4 | 250 | 3.1 | 1400 | 58 | 0.63 | 2.8 | 15 |
| YC802-4 | 370 | 4.2 | 1400 | 62 | 0.64 | 2.5 | 21 |
| YC90S-2 | 750 | 6.1 | 2800 | 70 | 0.80 | 2.5 | 37 |
| YC90L-2 | 1100 | 8.7 | 2800 | 72 | 0.80 | 2.5 | 60 |
| YC90S-4 | 550 | 5.5 | 1400 | 66 | 0.69 | 2.5 | 29 |
| YC90L-4 | 750 | 6.9 | 1400 | 68 | 0.73 | 2.5 | 37 |
| YC100L1-2 | 1500 | 11.4 | 2850 | 74 | 0.81 | 2.5 | 80 |
| YC100L2-2 | 2200 | 16.5 | 2850 | 75 | 0.81 | 2.2 | 120 |
| YC100L1-4 | 1100 | 9.6 | 1440 | 71 | 0.74 | 2.5 | 60 |
| YC100L2-4 | 1500 | 12.5 | 1440 | 73 | 0.75 | 2.5 | 80 |
| YC112M-2 | 3000 | 21.9 | 2850 | 76 | 0.82 | 2.2 | 150 |
| YC112M-4 | 2200 | 17.9 | 1400 | 74 | 0.76 | 2.2 | 120 |
| YC132S-2 | 3700 | 26.6 | 2850 | 77 | 0.82 | 2.2 | 175 |
| YC132S-4 | 3000 | 23.6 | 1400 | 75 | 0.77 | 2.2 | 150 |
| YC132M-4 | 3700 | 28.4 | 1400 | 76 | 0.79 | 2.2 | 175 |

Overall & Installation Dimensions



| FRAME | Mounting Dimensions | | | | | | | | | | | | | | | | Overall Dimensions | | |
|----------|---------------------|-----|-----|----|----|----|----|------|-----|----|-----|-----|-----|---|----|-----|--------------------|-----|-----|
| | A | AB | B | C | D | E | F | G | H | K | M | N | P | R | S | T | L | HD | AC |
| YCL 71 | 112 | 145 | 90 | 45 | 14 | 30 | 5 | 11 | 71 | 7 | 130 | 110 | 160 | | 10 | 3.5 | 255 | 180 | 145 |
| YCL 80 | 125 | 160 | 100 | 50 | 19 | 40 | 6 | 15.5 | 80 | 10 | 165 | 130 | 200 | 0 | 12 | 3.5 | 295 | 200 | 165 |
| YCL 90S | 140 | 180 | 100 | 56 | 24 | 50 | 8 | 20 | 90 | 10 | 165 | 130 | 200 | 0 | 12 | 3.5 | 370 | 220 | 185 |
| YCL 90L | 140 | 180 | 125 | 56 | 24 | 50 | 8 | 20 | 90 | 10 | 165 | 130 | 200 | 0 | 12 | 3.5 | 400 | 220 | 185 |
| YCL 100L | 160 | 205 | 140 | 63 | 28 | 60 | 8 | 24 | 100 | 12 | 215 | 180 | 250 | 0 | 15 | 4 | 430 | 260 | 200 |
| YCL 112M | 190 | 245 | 140 | 70 | 28 | 60 | 8 | 24 | 112 | 12 | 215 | 180 | 250 | 0 | 15 | 4 | 455 | 300 | 250 |
| YCL 132S | 216 | 280 | 140 | 89 | 38 | 80 | 10 | 33 | 132 | 12 | 265 | 230 | 300 | 0 | 15 | 4 | 525 | 350 | 290 |
| YCL 132M | 216 | 280 | 178 | 89 | 38 | 80 | 10 | 33 | 132 | 12 | 265 | 230 | 300 | 0 | 15 | 4 | 565 | 350 | 290 |

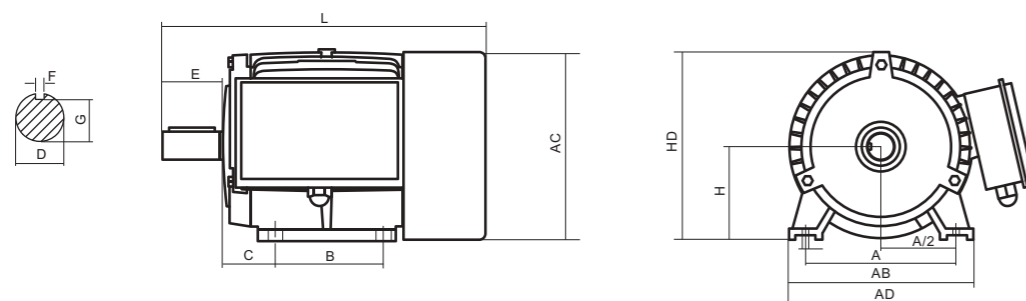
TL series

Single-Phase Capacitor Start and Capacitor Run Asynchronous Motors Cast iron Housing

TL series Cast iron housing single-phase dual-capacitor asynchronous motors, with latest design in entirety, are made of selected quality materials and conform to the IEC standard.

TL motors have good performance, safety and reliable operation, the multiple of starting torque is up to 2.5.

These series motors are suitable for the occasion where the requirements of big starting torque and high overload, such as air-compressors, pumps, and many other small machines.



Overall & Installation Dimensions

| FRAME | Mounting Dimensions | | | | | | | | | Overall Dimensions | | | | | Shaft End Screw Dimensions | | |
|---------|---------------------|-----|-----|----|-----|----|---|------|-------|--------------------|-----|-----|------|----------|----------------------------|----|----|
| | H | A | B | C | D | E | F | G | K | W | AD | HD | AC | L | A1 | A2 | A3 |
| TL 71 | 71 | 112 | 90 | 45 | φ14 | 30 | 5 | 11 | 7×10 | 132 | 196 | 125 | φ139 | 255 | M5 | 12 | 17 |
| TL 80 | 80 | 125 | 100 | 50 | φ19 | 40 | 6 | 15.5 | 10×13 | 160 | 224 | 144 | φ156 | 290 | M6 | 16 | 21 |
| TL 90S | 90 | 140 | 100 | 56 | φ24 | 50 | 8 | 20 | 10×13 | 175 | 242 | 152 | φ175 | 337 | M8 | 19 | 25 |
| TL 90L | 90 | 140 | 125 | 56 | φ24 | 50 | 8 | 20 | 10×13 | 175 | 242 | 152 | φ175 | 367 | M8 | 19 | 25 |
| TL 100L | 100 | 160 | 140 | 63 | φ28 | 60 | 8 | 24 | 12×15 | 198 | 273 | 173 | φ196 | 403(421) | M10 | 22 | 30 |
| TL 112M | 112 | 190 | 140 | 70 | φ28 | 60 | 8 | 24 | 12×15 | 220 | 299 | 187 | φ221 | 431 | M10 | 22 | 30 |

Overall & Installation Dimensions

| FRAME | KK | B5 | | | | | | B14 | | | | | | B5R | | | | | | B14B | | | | | |
|--------|-----------|------|------|------|-----|-----|---|------|------|------|----|-----|---|------|------|------|-----|-----|---|------|------|------|-----|-----|---|
| | | N | M | P | S | T | R | N | M | P | S | T | R | N | M | P | T | S | R | N | M | P | T | S | R |
| TL 71 | 1-M20*1.5 | φ110 | φ130 | φ160 | φ10 | 3.5 | 0 | φ70 | φ85 | φ105 | M6 | 2.5 | 0 | φ95 | φ115 | φ140 | 3 | φ10 | 0 | φ95 | φ115 | φ140 | 3 | M8 | 0 |
| TL 80 | 1-M20*1.5 | φ130 | φ165 | φ200 | φ12 | 3.5 | 0 | φ80 | φ100 | φ120 | M6 | 3 | 0 | φ110 | φ130 | φ160 | 3.5 | φ10 | 0 | φ110 | φ130 | φ160 | 3.5 | M8 | 0 |
| TL 90 | 1-M20*1.5 | φ130 | φ165 | φ200 | φ12 | 3.5 | 0 | φ95 | φ115 | φ140 | M8 | 3 | 0 | φ110 | φ130 | φ160 | 3.5 | φ10 | 0 | φ110 | φ130 | φ160 | 3.5 | M8 | 0 |
| TL 100 | 1-M20*1.5 | φ180 | φ215 | φ250 | φ15 | 4 | 0 | φ110 | φ130 | φ160 | M8 | 3.5 | 0 | φ130 | φ165 | φ200 | 3.5 | φ12 | 0 | φ130 | φ165 | φ200 | 3.5 | M10 | 0 |
| TL 112 | 1-M25*1.5 | φ180 | φ215 | φ250 | φ15 | 4 | 0 | φ110 | φ130 | φ160 | M8 | 3.5 | 0 | φ130 | φ165 | φ200 | 3.5 | φ12 | 0 | φ130 | φ165 | φ200 | 3.5 | M10 | 0 |

Technical Data (at 50Hz)

| Model | Power (kw) | T_{max}/T_n (Times) | T_{start}/T_n (Times) | Power factor | Eff (%) | Speed (r/min) | Current 220V (A) |
|-----------|------------|-----------------------|-------------------------|--------------|---------|---------------|------------------|
| TL711-2 | 0.37 | 1.6 | 2.5 | 0.95 | 70.5 | 2780 | 2.51 |
| TL712-2 | 0.55 | 1.8 | 2.5 | 0.97 | 74.5 | 2790 | 3.46 |
| TL801-2 | 0.75 | 1.8 | 2.5 | 0.99 | 77.5 | 2840 | 4.44 |
| TL802-2 | 1.1 | 1.8 | 2.3 | 0.99 | 79.5 | 2850 | 6.35 |
| TL90S-2 | 1.5 | 1.8 | 2.5 | 0.99 | 80 | 2860 | 8.61 |
| TL90L-2 | 2.2 | 1.75 | 2.5 | 0.99 | 81 | 2850 | 12.5 |
| TL100L-2 | 3 | 1.63 | 2.5 | 0.98 | 75 | 2830 | 18.6 |
| TL112M1-2 | 3.7 | 1.8 | 2.5 | 0.98 | 82.5 | 2900 | 20.8 |

| | | | | | | | |
|-----------|------|------|-----|------|------|------|------|
| TL711-4 | 0.25 | 1.7 | 2.5 | 0.97 | 63 | 1415 | 1.86 |
| TL712-4 | 0.37 | 1.6 | 2.3 | 0.97 | 65.5 | 1410 | 2.65 |
| TL800-4 | 0.37 | 1.8 | 2.5 | 0.96 | 66.5 | 1420 | 2.63 |
| TL801-4 | 0.55 | 1.8 | 2.5 | 0.95 | 71.5 | 1420 | 3.68 |
| TL802-4 | 0.75 | 1.75 | 2.5 | 0.98 | 73 | 1420 | 4.77 |
| TL90S-4 | 1.1 | 1.7 | 2.5 | 0.95 | 76 | 1420 | 6.93 |
| TL90L-4 | 1.5 | 1.75 | 2.5 | 0.97 | 78.5 | 1420 | 8.95 |
| TL100L1-4 | 2.2 | 1.65 | 2.5 | 0.98 | 80.5 | 1440 | 12.7 |
| TL112M1-4 | 3 | 1.75 | 2.4 | 0.98 | 83.5 | 1430 | 20.6 |

MS series

Three-Phase Asynchronous Motors Aluminum Housing

MS series aluminum housing three-phase asynchronous motors with latest design in entirety are made of selected quality materials and conform to the IEC standard.

MS motors have good performance, safety and reliable operation, nice appearance, and can be maintained very conveniently, while with low noise, low vibration and at the same time light weight and simple construction. These series motors can be used for general drive.



Speed 3000rpm 2-pole 50Hz

| Model | Rated Output | | Rated Speed rpm | Efficiency η% (IE1) | Efficiency at 75% load | Efficiency at 50% load | Power factor cos φ | Rated current | | | Rated Torque Nm | Ts/Tn | Tmax/Tn | Is/In | Weight kg |
|------------|--------------|------|-----------------|---------------------|------------------------|------------------------|--------------------|---------------|------|------|-----------------|-------|---------|-------|-----------|
| | (kw) | (HP) | | | | | | 380V | 400V | 415V | | | | | |
| MS-561-2 | 0.09 | 0.12 | 2700 | 45.0 | 45.0 | 44.1 | 0.70 | 0.43 | 0.41 | 0.40 | 0.32 | 2.1 | 2.2 | 5.2 | 3.4 |
| MS-562-2 | 0.12 | 0.18 | 2700 | 45.0 | 45.0 | 44.1 | 0.72 | 0.56 | 0.53 | 0.52 | 0.42 | 2.1 | 2.2 | 5.2 | 3.7 |
| MS-631-2 | 0.18 | 0.25 | 2720 | 52.8 | 52.8 | 51.7 | 0.80 | 0.65 | 0.62 | 0.59 | 0.63 | 2.3 | 2.2 | 5.5 | 4.3 |
| MS-632-2 | 0.25 | 0.37 | 2720 | 58.2 | 58.2 | 57.0 | 0.81 | 0.81 | 0.77 | 0.74 | 0.88 | 2.3 | 2.2 | 5.5 | 4.4 |
| MS-711-2 | 0.37 | 0.5 | 2740 | 63.9 | 63.9 | 62.6 | 0.81 | 1.09 | 1.03 | 0.99 | 1.29 | 2.3 | 2.2 | 6.1 | 5.3 |
| MS-712-2 | 0.55 | 0.75 | 2740 | 69.0 | 69.0 | 67.6 | 0.82 | 1.48 | 1.40 | 1.35 | 1.92 | 2.3 | 2.3 | 6.1 | 6.2 |
| MS-801-2 | 0.75 | 1 | 2840 | 72.1 | 72.1 | 70.7 | 0.83 | 1.90 | 1.81 | 1.74 | 2.52 | 2.2 | 2.3 | 6.1 | 8.7 |
| MS-802-2 | 1.1 | 1.5 | 2840 | 75.0 | 75.0 | 73.5 | 0.84 | 2.65 | 2.52 | 2.43 | 3.70 | 2.2 | 2.3 | 6.9 | 9.2 |
| MS-90S-2 | 1.5 | 2 | 2840 | 77.2 | 77.2 | 75.7 | 0.84 | 3.51 | 3.34 | 3.22 | 5.04 | 2.2 | 2.3 | 7.0 | 12.8 |
| MS-90L-2 | 2.2 | 3 | 2840 | 79.7 | 79.7 | 78.1 | 0.85 | 4.93 | 4.69 | 4.52 | 7.40 | 2.2 | 2.3 | 7.0 | 15 |
| MS-100L-2 | 3 | 4 | 2860 | 81.5 | 81.5 | 79.9 | 0.87 | 6.43 | 6.11 | 5.89 | 10.02 | 2.2 | 2.3 | 7.5 | 20.2 |
| MS-112M-2 | 4 | 5.5 | 2880 | 83.1 | 83.1 | 81.4 | 0.88 | 8.31 | 7.90 | 7.61 | 13.3 | 2.2 | 2.3 | 7.5 | 24 |
| MS-132S1-2 | 5.5 | 7.5 | 2990 | 84.7 | 84.7 | 83.0 | 0.86 | 11.5 | 10.9 | 10.5 | 18.1 | 2.2 | 2.3 | 7.5 | 35.5 |
| MS-132S2-2 | 7.5 | 10 | 2900 | 86.0 | 86.0 | 84.3 | 0.88 | 15.1 | 14.3 | 13.8 | 24.7 | 2.2 | 2.3 | 7.5 | 39.7 |
| MS-160M1-2 | 11 | 15 | 2930 | 87.6 | 87.6 | 85.8 | 0.89 | 21.4 | 20.4 | 19.6 | 35.9 | 2.2 | 2.3 | 7.5 | 65.5 |
| MS-160M2-2 | 15 | 20 | 2930 | 88.7 | 88.7 | 86.9 | 0.89 | 28.9 | 27.4 | 26.4 | 48.9 | 2.2 | 2.3 | 7.5 | 73.1 |
| MS-160L-2 | 18.5 | 25 | 2930 | 89.3 | 89.3 | 87.5 | 0.90 | 35.0 | 33.2 | 32.0 | 60.3 | 2.2 | 2.3 | 7.5 | 82.2 |

Speed 1500rpm 4-pole 50Hz

| Model | Rated Output | | Rated Speed rpm | Efficiency η% (IE1) | Efficiency at 75% load | Efficiency at 50% load | Power factor cos φ | Rated current | | | Rated Torque Nm | Ts/Tn | Tmax/Tn | Is/In | Weight kg |
|------------|--------------|------|-----------------|---------------------|------------------------|------------------------|--------------------|---------------|------|------|-----------------|-------|---------|-------|-----------|
| | (kw) | (HP) | | | | | | 380V | 400V | 415V | | | | | |
| MS-561-4 | 0.06 | 0.09 | 1325 | 54.0 | 54.0 | 52.9 | 0.58 | 0.29 | 0.28 | 0.27 | 0.43 | 2.0 | 2.1 | 4.0 | 3.6 |
| MS-562-4 | 0.09 | 0.12 | 1325 | 56.0 | 56.0 | 54.9 | 0.61 | 0.40 | 0.38 | 0.37 | 0.65 | 2.0 | 2.1 | 4.0 | 3.9 |
| MS-631-4 | 0.12 | 0.18 | 1310 | 50.0 | 50.0 | 49.0 | 0.72 | 0.51 | 0.48 | 0.46 | 0.87 | 2.1 | 2.2 | 4.4 | 4.2 |
| MS-632-4 | 0.18 | 0.25 | 1310 | 57.0 | 57.0 | 55.9 | 0.73 | 0.66 | 0.62 | 0.60 | 1.31 | 2.1 | 2.2 | 4.4 | 4.5 |
| MS-711-4 | 0.25 | 0.37 | 1330 | 61.5 | 61.5 | 60.3 | 0.74 | 0.83 | 0.79 | 0.76 | 1.80 | 2.1 | 2.2 | 5.2 | 5.3 |
| MS-712-4 | 0.37 | 0.5 | 1330 | 66.0 | 66.0 | 64.7 | 0.75 | 1.14 | 1.08 | 1.04 | 2.66 | 2.1 | 2.2 | 5.2 | 6.1 |
| MS-801-4 | 0.55 | 0.75 | 1390 | 70.0 | 70.0 | 68.6 | 0.75 | 1.59 | 1.51 | 1.46 | 3.78 | 2.4 | 2.3 | 5.2 | 8.1 |
| MS-802-4 | 0.75 | 1 | 1390 | 72.1 | 72.1 | 70.7 | 0.76 | 2.08 | 1.98 | 1.90 | 5.15 | 2.3 | 2.3 | 6.0 | 9.2 |
| MS-90S-4 | 1.1 | 1.5 | 1390 | 75.0 | 75.0 | 73.5 | 0.77 | 2.89 | 2.75 | 2.65 | 7.56 | 2.3 | 2.3 | 6.0 | 12.3 |
| MS-90L-4 | 1.5 | 2 | 1390 | 77.2 | 77.2 | 75.7 | 0.77 | 3.83 | 3.64 | 3.51 | 10.3 | 2.3 | 2.3 | 6.0 | 15.3 |
| MS-100L1-4 | 2.2 | 3 | 1390 | 79.7 | 79.7 | 78.1 | 0.81 | 5.18 | 4.92 | 4.74 | 15.1 | 2.3 | 2.3 | 7.0 | 20 |
| MS-100L2-4 | 3 | 4 | 1410 | 81.5 | 81.5 | 79.9 | 0.82 | 6.82 | 6.48 | 6.25 | 20.3 | 2.3 | 2.3 | 7.0 | 22.7 |
| MS-112M-4 | 4 | 5.5 | 1410 | 83.1 | 83.1 | 81.4 | 0.82 | 8.92 | 8.47 | 8.17 | 27.1 | 2.3 | 2.3 | 7.0 | 24 |
| MS-132S-4 | 5.5 | 7.5 | 1435 | 84.7 | 84.7 | 83.0 | 0.83 | 11.9 | 11.3 | 10.9 | 36.6 | 2.3 | 2.3 | 7.0 | 33 |
| MS-132M-4 | 7.5 | 10 | 1440 | 86.0 | 86.0 | 84.3 | 0.84 | 15.8 | 15.0 | 14.4 | 49.7 | 2.3 | 2.3 | 7.0 | 48 |
| MS-160M-4 | 11 | 15 | 1440 | 87.6 | 87.6 | 85.8 | 0.84 | 22.7 | 21.6 | 20.8 | 73.0 | 2.2 | 2.3 | 7.0 | 71.1 |
| MS-160L-4 | 15 | 20 | 1460 | 88.7 | 88.7 | 86.9 | 0.85 | 30.2 | 28.7 | 27.7 | 98.1 | 2.2 | 2.3 | 7.5 | 82.6 |

Speed 1000rpm 6-pole 50Hz

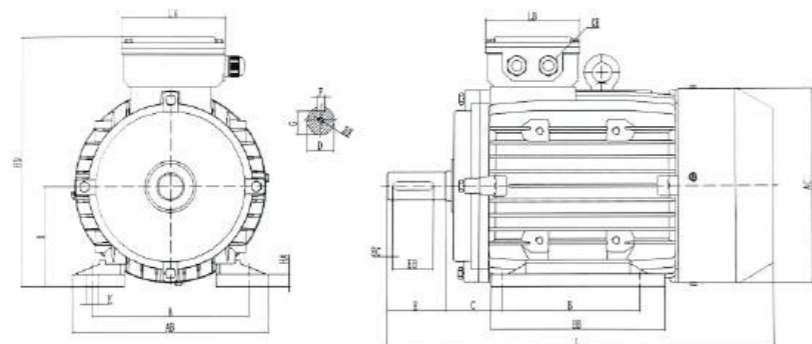
| Model | Rated Output | | Rated Speed rpm | Efficiency η% (IE1) | Efficiency at 75% load | Efficiency at 50% load | Power factor cos φ | Rated current | | | Rated Torque Nm | Ts/Tn | Tmax/Tn | Is/In | Weight kg |
|------------|--------------|------|-----------------|---------------------|------------------------|------------------------|--------------------|---------------|------|------|-----------------|-------|---------|-------|-----------|
| | (kw) | (HP) | | | | | | 380V | 400V | 415V | | | | | |
| MS-631-6 | 0.09 | 0.12 | 840 | 44.0 | 44.0 | 43.1 | 0.60 | 0.52 | 0.49 | 0.47 | 1.02 | 1.8 | 1.9 | 3.5 | 4.5 |
| MS-632-6 | 0.12 | 0.18 | 850 | 38.3 | 38.3 | 37.5 | 0.60 | 0.79 | 0.75 | 0.73 | 1.35 | 1.8 | 1.9 | 3.5 | 4.6 |
| MS-711-6 | 0.18 | 0.25 | 850 | 45.5 | 45.5 | 44.6 | 0.66 | 0.91 | 0.87 | 0.83 | 2.02 | 1.9 | 2.0 | 4.0 | 6.5 |
| MS-712-6 | 0.25 | 0.37 | 850 | 52.1 | 52.1 | 51.1 | 0.68 | 1.07 | 1.02 | 0.98 | 2.81 | 1.9 | 2.0 | 4.0 | 6.7 |
| MS-801-6 | 0.37 | 0.5 | 885 | 59.7 | 59.7 | 58.5 | 0.70 | 1.35 | 1.28 | 1.23 | 3.99 | 1.9 | 2.0 | 4.7 | 8.5 |
| MS-802-6 | 0.55 | 0.75 | 885 | 65.8 | 65.8 | 64.5 | 0.72 | 1.76 | 1.68 | 1.62 | 5.94 | 1.9 | 2.1 | 4.7 | 9.4 |
| MS-90S-6 | 0.75 | 1 | 910 | 70.0 | 70.0 | 68.6 | 0.72 | 2.26 | 2.15 | 2.07 | 7.87 | 2.0 | 2.1 | 5.3 | 12.4 |
| MS-90L-6 | 1.1 | 1.5 | 910 | 72.9 | 72.9 | 71.4 | 0.72 | 3.18 | 3.02 | 2.92 | 11.5 | 2.0 | 2.1 | 5.5 | 15.8 |
| MS-100L-6 | 1.5 | 2 | 920 | 75.2 | 75.2 | 73.7 | 0.75 | 4.04 | 3.84 | 3.70 | 15.6 | 2.0 | 2.1 | 5.5 | 20.5 |
| MS-112M-6 | 2.2 | 3 | 935 | 77.7 | 77.7 | 76.1 | 0.76 | 5.66 | 5.38 | 5.18 | 22.5 | 2.0 | 2.1 | 6.5 | 25.2 |
| MS-132S-6 | 3 | 4 | 960 | 79.7 | 79.7 | 78.1 | 0.76 | 7.52 | 7.15 | 6.89 | 29.8 | 2.1 | 2.1 | 6.5 | 38.5 |
| MS-132M1-6 | 4 | 5.5 | 960 | 81.4 | 81.4 | 79.8 | 0.76 | 9.82 | 9.33 | 9.00 | 39.8 | 2.1 | 2.1 | 6.5 | 41.5 |
| MS-132M2-6 | 5.5 | 7.5 | 960 | 83.1 | 83.1 | 81.4 | 0.77 | 13.1 | 12.4 | 12.0 | 54.7 | 2.1 | 2.1 | 6.5 | 45.7 |
| MS-160M-6 | 7.5 | 10 | 970 | 84.7 | 84.7 | 83.0 | 0.78 | 17.2 | 16.4 | 15.8 | 73.8 | 2.0 | 2.1 | 6.5 | 69.5 |
| MS-160L-6 | 11 | 15 | 970 | 86.4 | 86.4 | 84.7 | 0.78 | 24.8 | 23.6 | 22.7 | 108.3 | 2.0 | 2.1 | 6.5 | 82 |

Speed 750rpm 8-pole 50Hz

| Model | Rated Output | | Rated Speed rpm | Efficiency η% (IE1) | Efficiency at 75% load | Efficiency at 50% load | Power factor cos φ | Rated current | | | Rated Torque Nm | Ts/Tn | Tmax/Tn | Is/In | Weight kg |
|-------------|--------------|------|-----------------|---------------------|------------------------|------------------------|--------------------|---------------|------|------|-----------------|-------|---------|-------|-----------|
| | (kw) | (HP) | | | | | | 380V | 400V | 415V | | | | | |
| MS-711-8 | 0.09 | 0.12 | 600 | 40.0 | 40.0 | 39.2 | 0.57 | 0.60 | 0.57 | 0.55 | 1.43 | 1.8 | 1.9 | 2.8 | 7.5 |
| MS-712-8 | 0.12 | 0.18 | 600 | 31.0 | 31.0 | 30.4 | 0.57 | 1.03 | 0.98 | 0.94 | 1.91 | 1.8 | 1.9 | 2.8 | 7.8 |
| MS-801-8 | 0.18 | 0.25 | 645 | 38.0 | 38.0 | 37.2 | 0.61 | 1.18 | 1.12 | 1.08 | 2.67 | 1.8 | 1.9 | 3.3 | 8.5 |
| MS-802-8 | 0.25 | 0.37 | 645 | 43.4 | 43.4 | 42.5 | 0.61 | 1.43 | 1.36 | 1.31 | 3.70 | 1.8 | 1.9 | 3.3 | 9 |
| MS-90S-8 | 0.37 | 0.5 | 670 | 49.7 | 49.7 | 48.7 | 0.61 | 1.85 | 1.76 | 1.70 | 5.27 | 1.8 | 1.9 | 4.0 | 12.6 |
| MS-90L-8 | 0.55 | 0.75 | 670 | 56.1 | 56.1 | 55.0 | 0.61 | 2.44 | 2.32 | 2.24 | 7.84 | 1.8 | 2.0 | 4.0 | 15.3 |
| MS-100L1-8 | 0.75 | 1 | 680 | 61.2 | 61.2 | 60.0 | 0.67 | 2.78 | 2.64 | 2.54 | 10.5 | 1.8 | 2.0 | 4.0 | 21 |
| MS-100L2-8 | 1.1 | 1.5 | 680 | 66.5 | 66.5 | 65.2 | 0.69 | 3.64 | 3.46 | 3.34 | 15.4 | 1.8 | 2.0 | 5.0 | 22 |
| MS-112M-8 | 1.5 | 2 | 690 | 70.2 | 70.2 | 68.8 | 0.70 | 4.64 | 4.41 | 4.25 | 20.8 | 1.8 | 2.0 | 5.0 | 28 |
| MS-132S-8 | 2.2 | 3 | 705 | 74.2 | 74.2 | 72.7 | 0.71 | 6.34 | 6.03 | 5.81 | 29.8 | 1.8 | 2.0 | 6.0 | 36 |
| MS-132M-8 | 3 | 4 | 705 | 77.0 | 77.0 | 75.5 | 0.73 | 8.11 | 7.70 | 7.43 | 40.6 | 1.8 | 2.0 | 6.0 | 43 |
| MS-160MM1-8 | 4 | 5.5 | 720 | 79.2 | 79.2 | 77.6 | 0.73 | 10.5 | 9.99 | 9.63 | 53.1 | 1.9 | 2.0 | 6.0 | 66.5 |
| MS-160M2-8 | 5.5 | 7.5 | 720 | 81.4 | 81.4 | 79.8 | 0.74 | 13.9 | 13.2 | 12.7 | 73.0 | 1.9 | 2.0 | 6.0 | 74.7 |
| MS-160L-8 | 7.5 | 10 | 720 | 83.1 | 83.1 | 81.4 | 0.75 | 18.3 | 17.4 | 16.7 | 99.5 | 1.9 | 2.0 | 6.0 | 86.2 |

Installation Dimensions

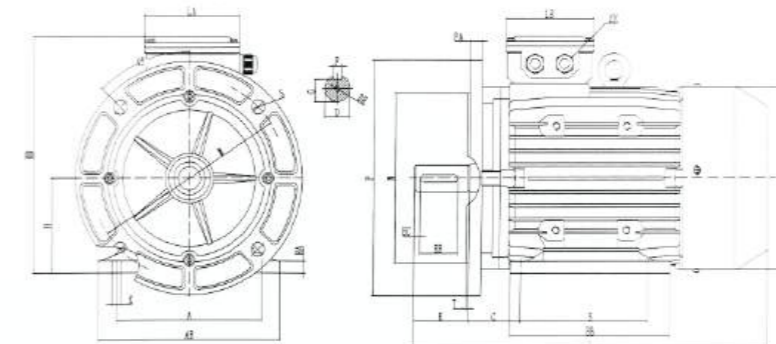
IM B3 56-160



| TYPE | A | AB | AC | B | BB | C | D | DH | E | EC | EB | F | G | H | HA | HD | K | KK | LA | LB | L |
|------|-----|-----|-----|-----|-----|-----|----|--------|-----|----|----|----|------|-----|----|-----|-------|-----------|-----|-----|-----|
| 56M | 90 | 110 | 112 | 71 | 88 | 36 | 9 | M4×10 | 20 | 5 | 10 | 3 | 7.2 | 56 | 9 | 153 | 6×8 | 2-M18×1.5 | 80 | 80 | 200 |
| 63M | 100 | 126 | 120 | 80 | 102 | 40 | 11 | M4×10 | 23 | 3 | 17 | 4 | 8.5 | 63 | 9 | 168 | 7×10 | 2-M18×1.5 | 80 | 80 | 225 |
| 71M | 112 | 140 | 136 | 90 | 115 | 45 | 14 | M5×12 | 30 | 4 | 21 | 5 | 11 | 71 | 11 | 185 | 8×11 | 2-M18×1.5 | 80 | 80 | 250 |
| 80M | 125 | 158 | 146 | 100 | 125 | 50 | 19 | M6×15 | 40 | 5 | 26 | 6 | 15.5 | 80 | 11 | 205 | 10×14 | 2-M18×1.5 | 90 | 90 | 300 |
| 90S | 140 | 180 | 162 | 100 | 130 | 56 | 24 | M8×19 | 50 | 6 | 31 | 8 | 20 | 90 | 11 | 220 | 10×14 | 2-M18×1.5 | 90 | 90 | 317 |
| 90L | 140 | 180 | 162 | 125 | 155 | 56 | 24 | M8×19 | 50 | 6 | 31 | 8 | 20 | 90 | 11 | 220 | 10×14 | 2-M18×1.5 | 90 | 90 | 337 |
| 100L | 160 | 200 | 195 | 140 | 175 | 63 | 28 | M8×19 | 60 | 6 | 41 | 8 | 24 | 100 | 13 | 260 | 12×18 | 2-M20×1.5 | 104 | 104 | 390 |
| 112M | 190 | 218 | 220 | 140 | 175 | 70 | 28 | M8×19 | 60 | 6 | 41 | 8 | 24 | 112 | 13 | 283 | 12×18 | 2-M20×1.5 | 120 | 111 | 405 |
| 132S | 216 | 254 | 255 | 140 | 185 | 89 | 38 | M10×22 | 80 | 10 | 51 | 10 | 33 | 132 | 17 | 320 | 12×18 | 2-M20×1.5 | 120 | 111 | 445 |
| 132M | 216 | 254 | 255 | 178 | 223 | 89 | 38 | M10×22 | 80 | 10 | 51 | 10 | 33 | 132 | 17 | 320 | 12×18 | 2-M20×1.5 | 120 | 111 | 485 |
| 160M | 254 | 305 | 312 | 210 | 260 | 108 | 42 | M12×30 | 110 | 13 | 71 | 12 | 37 | 160 | 19 | 402 | 15×18 | 2-M36×1.5 | 160 | 150 | 581 |
| 160L | 254 | 305 | 312 | 254 | 303 | 108 | 42 | M12×30 | 110 | 13 | 71 | 12 | 37 | 160 | 19 | 402 | 15×18 | 2-M36×1.5 | 160 | 150 | 625 |

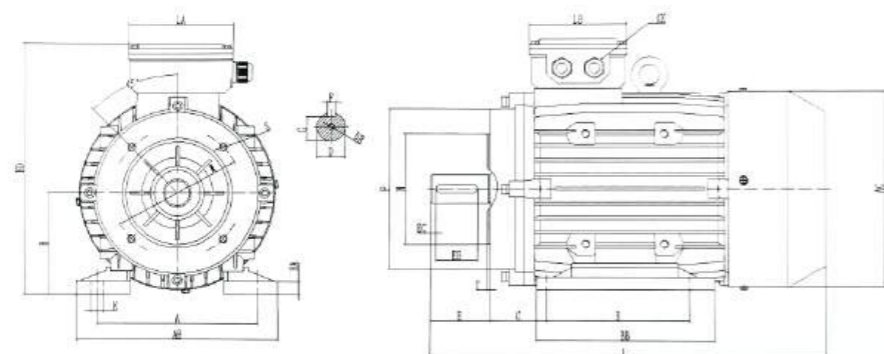
Installation Dimensions

IM B35 56-160



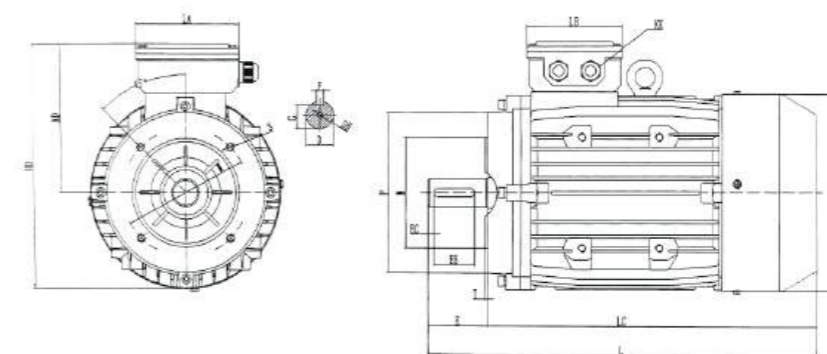
| TYPE | A | AB | AC | B | BB | C | D | DH | E | EC | EB | F | G | H | HA | HD | K | KK | LA | LB | L | M | N | P | PA | S | T |
|------|-----|-----|-----|-----|-----|-----|----|--------|-----|----|----|----|------|-----|----|-----|-------|-----------|-----|-----|-----|-----|-----|-----|------|----|---|
| 56M | 90 | 110 | 112 | 71 | 88 | 36 | 9 | M4×10 | 20 | 5 | 10 | 3 | 7.2 | 56 | 9 | 153 | 6×8 | 2-M18×1.5 | 80 | 80 | 200 | 100 | 80 | 120 | 9 | 7 | 3 |
| 63M | 100 | 126 | 120 | 80 | 102 | 40 | 11 | M4×10 | 23 | 3 | 17 | 4 | 8.5 | 63 | 9 | 168 | 7×10 | 2-M18×1.5 | 80 | 80 | 225 | 115 | 95 | 140 | 9.5 | 10 | 3 |
| 71M | 112 | 140 | 136 | 90 | 115 | 45 | 14 | M5×12 | 30 | 4 | 21 | 5 | 11 | 71 | 11 | 185 | 8×11 | 2-M18×1.5 | 80 | 80 | 250 | 130 | 110 | 160 | 11 | 10 | 3 |
| 80M | 125 | 158 | 146 | 100 | 125 | 50 | 19 | M6×15 | 40 | 5 | 26 | 6 | 15.5 | 80 | 11 | 205 | 10×14 | 2-M18×1.5 | 90 | 90 | 300 | 165 | 130 | 200 | 11 | 12 | 3 |
| 90S | 140 | 180 | 162 | 100 | 130 | 56 | 24 | M8×19 | 50 | 6 | 31 | 8 | 20 | 90 | 11 | 220 | 10×14 | 2-M18×1.5 | 90 | 90 | 317 | 165 | 130 | 200 | 11 | 12 | 3 |
| 90L | 140 | 180 | 162 | 125 | 155 | 56 | 24 | M8×19 | 50 | 6 | 31 | 8 | 20 | 90 | 11 | 220 | 10×14 | 2-M18×1.5 | 90 | 90 | 337 | 165 | 130 | 200 | 11 | 12 | 3 |
| 100L | 160 | 200 | 195 | 140 | 175 | 63 | 28 | M8×19 | 60 | 6 | 41 | 8 | 24 | 100 | 13 | 260 | 12×18 | 2-M20×1.5 | 104 | 104 | 390 | 215 | 180 | 250 | 12.5 | 15 | 4 |
| 112M | 190 | 218 | 220 | 140 | 175 | 70 | 28 | M8×19 | 60 | 6 | 41 | 8 | 24 | 112 | 13 | 283 | 12×18 | 2-M20×1.5 | 120 | 111 | 405 | 215 | 180 | 250 | 12.5 | 15 | 4 |
| 132S | 216 | 254 | 255 | 140 | 185 | 89 | 38 | M10×22 | 80 | 10 | 51 | 10 | 33 | 132 | 17 | 320 | 12×18 | 2-M20×1.5 | 120 | 111 | 445 | 265 | 230 | 300 | 15 | 15 | 4 |
| 132M | 216 | 254 | 255 | 178 | 223 | 89 | 38 | M10×22 | 80 | 10 | 51 | 10 | 33 | 132 | 17 | 320 | 12×18 | 2-M20×1.5 | 120 | 111 | 485 | 265 | 230 | 300 | 15 | 15 | 4 |
| 160M | 254 | 305 | 312 | 210 | 260 | 108 | 42 | M12×30 | 110 | 13 | 71 | 12 | 37 | 160 | 19 | 402 | 15×18 | 2-M36×1.5 | 160 | 150 | 581 | 300 | 250 | 350 | 15 | 19 | 5 |
| 160L | 254 | 305 | 312 | 254 | 303 | 108 | 42 | M12×30 | 110 | 13 | 71 | 12 | 37 | 160 | 19 | 402 | 15×18 | 2-M36×1.5 | 160 | 150 | 625 | 300 | 250 | 350 | 15 | 19 | 5 |

IM B34 56-132



| TYPE | A | AB | AC | B | BB | C | D | DH | E | EC | EB | F | G | H | HA | HD | K | KK | LA | LB | L | M | N | P | S | T |
|------|-----|-----|-----|-----|-----|----|----|--------|----|----|----|----|------|-----|----|-----|-------|-----------|-----|-----|-----|-----|-----|-----|-------|---|
| 56M | 90 | 110 | 112 | 71 | 88 | 36 | 9 | M4×10 | 20 | 5 | 10 | 3 | 7.2 | 56 | 9 | 153 | 6×8 | 2-M18×1.5 | 80 | 80 | 200 | 65 | 50 | 84 | 4-M5 | 3 |
| 63M | 100 | 126 | 120 | 80 | 102 | 40 | 11 | M4×10 | 23 | 3 | 17 | 4 | 8.5 | 63 | 9 | 168 | 7×10 | 2-M18×1.5 | 80 | 80 | 225 | 75 | 60 | 90 | 4-M5 | 3 |
| 71M | 112 | 140 | 136 | 90 | 115 | 45 | 14 | M5×12 | 30 | 4 | 21 | 5 | 11 | 71 | 11 | 185 | 8×11 | 2-M18×1.5 | 80 | 80 | 250 | 85 | 70 | 104 | 4-M6 | 3 |
| 80M | 125 | 158 | 146 | 100 | 125 | 50 | 19 | M6×15 | 40 | 5 | 26 | 6 | 15.5 | 80 | 11 | 205 | 10×14 | 2-M18×1.5 | 90 | 90 | 300 | 100 | 80 | 120 | 4-M6 | 3 |
| 90S | 140 | 180 | 162 | 100 | 130 | 56 | 24 | M8×19 | 50 | 6 | 31 | 8 | 20 | 90 | 11 | 220 | 10×14 | 2-M18×1.5 | 90 | 90 | 317 | 115 | 95 | 138 | 4-M8 | 3 |
| 90L | 140 | 180 | 162 | 125 | 155 | 56 | 24 | M8×19 | 50 | 6 | 31 | 8 | 20 | 90 | 11 | 220 | 10×14 | 2-M18×1.5 | 90 | 90 | 337 | 115 | 95 | 138 | 4-M8 | 3 |
| 100L | 160 | 200 | 195 | 140 | 175 | 63 | 28 | M8×19 | 60 | 6 | 41 | 8 | 24 | 100 | 13 | 260 | 12×18 | 2-M20×1.5 | 104 | 104 | 390 | 130 | 110 | 160 | 4-M8 | 4 |
| 112M | 190 | 218 | 220 | 140 | 175 | 70 | 28 | M8×19 | 60 | 6 | 41 | 8 | 24 | 112 | 13 | 283 | 12×18 | 2-M20×1.5 | 120 | 111 | 405 | 130 | 110 | 160 | 4-M8 | 4 |
| 132S | 216 | 254 | 255 | 140 | 185 | 89 | 38 | M10×22 | 80 | 10 | 51 | 10 | 33 | 132 | 17 | 320 | 12×18 | 2-M20×1.5 | 120 | 111 | 445 | 165 | 130 | 200 | 4-M10 | 4 |
| 132M | 216 | 254 | 255 | 178 | 223 | 89 | 38 | M10×22 | 80 | 10 | 51 | 10 | 33 | 132 | 17 | 320 | 12×18 | 2-M20×1.5 | 120 | 111 | 485 | 165 | 130 | 200 | 4-M10 | 4 |

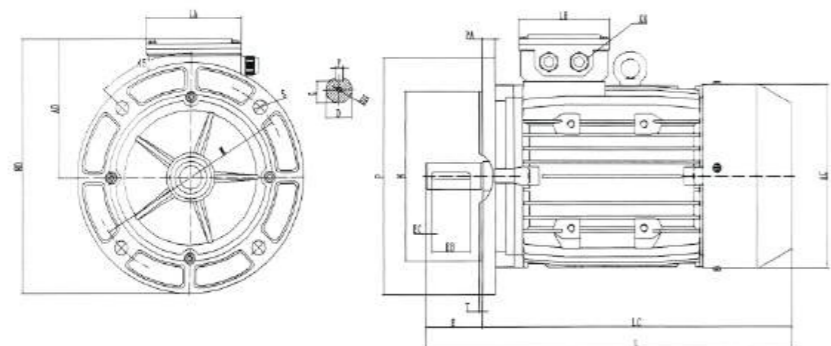
IM B14 56-132



| TYPE | AC | AD | D | DH | E | EC | EB | F | G | HD | KK | L | LA | LB | LC | M | N | P | S | T |
|------|-----|-----|----|--------|----|----|----|----|------|-----|-----------|-----|-----|-----|-----|-----|-----|-----|-------|---|
| 56M | 112 | 95 | 9 | M4×10 | 20 | 5 | 10 | 3 | 7.2 | 152 | 2-M18×1.5 | 200 | 80 | 80 | 180 | 65 | 50 | 84 | 4-M5 | 3 |
| 63M | 120 | 105 | 11 | M4×10 | 23 | 3 | 17 | 4 | 8.5 | 165 | 2-M18×1.5 | 225 | 80 | 80 | 202 | 75 | 60 | 90 | 4-M5 | 3 |
| 71M | 136 | 113 | 14 | M5×12 | 30 | 4 | 21 | 5 | 11 | 181 | 2-M18×1.5 | 250 | 80 | 80 | 220 | 85 | 70 | 104 | 4-M6 | 3 |
| 80M | 146 | 123 | 19 | M6×15 | 40 | 5 | 26 | 6 | 15.5 | 199 | 2-M18×1.5 | 300 | 90 | 90 | 260 | 100 | 80 | 120 | 4-M6 | 3 |
| 90S | 162 | 129 | 24 | M8×19 | 50 | 6 | 31 | 8 | 20 | 213 | 2-M18×1.5 | 317 | 90 | 90 | 267 | 115 | 95 | 138 | 4-M8 | 3 |
| 90L | 162 | 129 | 24 | M8×19 | 50 | 6 | 31 | 8 | 20 | 213 | 2-M18×1.5 | 337 | 90 | 90 | 287 | 115 | 95 | 138 | 4-M8 | 3 |
| 100L | 195 | 158 | 28 | M8×19 | 60 | 6 | 41 | 8 | 24 | 255 | 2-M20×1.5 | 390 | 104 | 104 | 330 | 130 | 110 | 160 | 4-M8 | 4 |
| 112M | 220 | 169 | 28 | M8×19 | 60 | 6 | 41 | 8 | 24 | 279 | 2-M20×1.5 | 405 | 120 | 111 | 345 | 130 | 110 | 160 | 4-M8 | 4 |
| 132S | 255 | 188 | 38 | M10×22 | 80 | 10 | 51 | 10 | 33 | 315 | 2-M20×1.5 | 445 | 120 | 111 | 365 | 165 | 130 | 200 | 4-M10 | 4 |
| 132M | 255 | 188 | 38 | M10×22 | 80 | 10 | 51 | 10 | 33 | 315 | 2-M20×1.5 | 485 | 120 | 111 | 425 | 165 | 130 | 200 | 4-M10 | 4 |

Installation Dimensions

IM B5 56-160



| TYPE | AC | AD | D | DH | E | EC | EB | F | G | HD | KK | L | LA | LB | LC | M | N | P | PA | S | T |
|------|-----|-----|----|--------|-----|----|----|----|------|-----|-----------|-----|-----|-----|-----|-----|-----|-----|------|----|---|
| 56M | 112 | 95 | 9 | M4×10 | 20 | 5 | 10 | 3 | 7.2 | 156 | 2-M18×1.5 | 200 | 80 | 80 | 180 | 100 | 80 | 120 | 9 | 7 | 3 |
| 63M | 120 | 105 | 11 | M4×10 | 23 | 3 | 17 | 4 | 8.5 | 174 | 2-M18×1.5 | 225 | 80 | 80 | 202 | 115 | 95 | 140 | 9.5 | 7 | 3 |
| 71M | 136 | 112 | 14 | M5×12 | 30 | 4 | 21 | 5 | 11 | 192 | 2-M18×1.5 | 250 | 80 | 80 | 220 | 130 | 110 | 160 | 11 | 10 | 3 |
| 80M | 146 | 123 | 19 | M6×15 | 40 | 5 | 26 | 6 | 15.5 | 224 | 2-M18×1.5 | 300 | 90 | 90 | 260 | 165 | 130 | 200 | 11 | 10 | 3 |
| 90S | 162 | 129 | 24 | M8×19 | 50 | 6 | 31 | 8 | 20 | 229 | 2-M18×1.5 | 317 | 90 | 90 | 267 | 165 | 130 | 200 | 11 | 12 | 3 |
| 90L | 162 | 129 | 24 | M8×19 | 50 | 6 | 31 | 8 | 20 | 229 | 2-M18×1.5 | 337 | 90 | 90 | 287 | 165 | 130 | 200 | 11 | 12 | 3 |
| 100L | 195 | 158 | 28 | M8×19 | 60 | 6 | 41 | 8 | 24 | 284 | 2-M20×1.5 | 390 | 104 | 104 | 330 | 215 | 180 | 250 | 12.5 | 12 | 4 |
| 112M | 220 | 169 | 28 | M8×19 | 60 | 6 | 41 | 8 | 24 | 294 | 2-M20×1.5 | 405 | 120 | 111 | 345 | 215 | 180 | 250 | 12.5 | 12 | 4 |
| 132S | 255 | 188 | 38 | M10×22 | 80 | 10 | 51 | 10 | 33 | 338 | 2-M20×1.5 | 445 | 120 | 111 | 365 | 265 | 230 | 300 | 15 | 15 | 4 |
| 132M | 255 | 188 | 38 | M10×22 | 80 | 10 | 51 | 10 | 33 | 338 | 2-M20×1.5 | 485 | 120 | 111 | 425 | 265 | 230 | 300 | 15 | 15 | 4 |
| 160M | 312 | 243 | 42 | M12×30 | 110 | 13 | 71 | 12 | 37 | 417 | 2-M36×1.5 | 581 | 160 | 150 | 471 | 300 | 250 | 350 | 15 | 19 | 5 |
| 160L | 312 | 243 | 42 | M12×30 | 110 | 13 | 71 | 12 | 37 | 417 | 2-M36×1.5 | 625 | 160 | 150 | 515 | 300 | 250 | 350 | 15 | 19 | 5 |



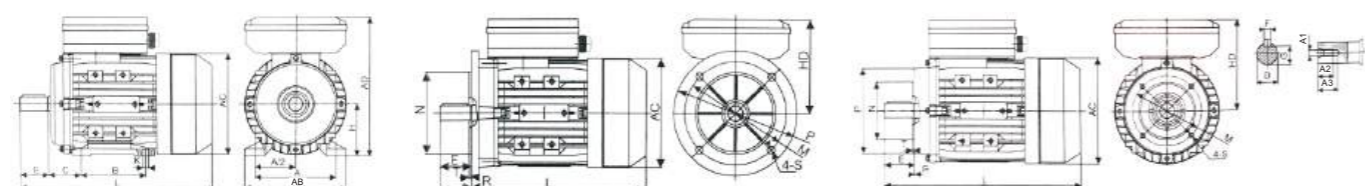
ML series

Single-Phase Capacitor Start and Capacitor Run Asynchronous Motors Aluminum Housing

ML series aluminum housing single-phase dual-capacitor asynchronous motors, with latest design in entirety, are made of selected quality materials and conform to the IEC standard.

ML motors have good performance, safety and reliable operation, the multiple of starting torque is up to 2.5.

These series motors are suitable for the occasion where the requirements of big starting torque and high overload, such as air compressors, pumps, and many other small machines.



IM B3

IM B5

IM B14

Overall & Installation Dimensions

| FRAME | Mounting Dimensions | | | | | | | | | | | Overall Dimensions | | | | | Shaft End Screw Dimensions | | |
|---------|---------------------|-----|-----|-----|----|-----|----|---|------|-------|-----|--------------------|-----|------|----------|-----|----------------------------|----|--|
| | H | A | AB | B | C | D | E | F | G | K | W | AD | HD | AC | L | A1 | A2 | A3 | |
| ML 71 | 71 | 112 | 140 | 90 | 45 | φ14 | 30 | 5 | 11 | 7×10 | 132 | 196 | 125 | φ139 | 255 | M5 | 12 | 17 | |
| ML 80 | 80 | 125 | 158 | 100 | 50 | φ19 | 40 | 6 | 15.5 | 10×13 | 160 | 224 | 144 | φ156 | 290 | M6 | 16 | 21 | |
| ML 90S | 90 | 140 | 171 | 100 | 56 | φ24 | 50 | 8 | 20 | 10×13 | 175 | 242 | 152 | φ175 | 337 | M8 | 19 | 25 | |
| ML 90L | 90 | 140 | 171 | 125 | 56 | φ24 | 50 | 8 | 20 | 10×13 | 175 | 242 | 152 | φ175 | 367 | M8 | 19 | 25 | |
| ML 100L | 100 | 160 | 200 | 140 | 63 | φ28 | 60 | 8 | 24 | 12×15 | 198 | 273 | 173 | φ196 | 403(421) | M10 | 22 | 30 | |
| ML 112M | 112 | 190 | 218 | 140 | 70 | φ28 | 60 | 8 | 24 | 12×15 | 220 | 299 | 187 | φ221 | 431 | M10 | 22 | 30 | |

Overall & Installation Dimensions

| FRAME | KK | B5 | | | | | | B14 | | | | | | B5R | | | | | | B14B | | | | | |
|--------|-----------|------|------|------|-----|-----|---|------|------|------|----|-----|---|------|------|------|-----|-----|---|------|------|------|-----|-----|---|
| | | N | M | P | S | T | R | N | M | P | S | T | R | N | M | P | T | S | R | N | M | P | T | S | R |
| ML 71 | 1-M20*1.5 | φ110 | φ130 | φ160 | φ10 | 3.5 | 0 | φ70 | φ85 | φ105 | M6 | 2.5 | 0 | φ95 | φ115 | φ140 | 3 | φ10 | 0 | φ95 | φ115 | φ140 | 3 | M8 | 0 |
| ML 80 | 1-M20*1.5 | φ130 | φ165 | φ200 | φ12 | 3.5 | 0 | φ80 | φ100 | φ120 | M6 | 3 | 0 | φ110 | φ130 | φ160 | 3.5 | φ10 | 0 | φ110 | φ130 | φ160 | 3.5 | M8 | 0 |
| ML 90 | 1-M20*1.5 | φ130 | φ165 | φ200 | φ12 | 3.5 | 0 | φ95 | φ115 | φ140 | M8 | 3 | 0 | φ110 | φ130 | φ160 | 3.5 | φ10 | 0 | φ110 | φ130 | φ160 | 3.5 | M8 | 0 |
| ML 100 | 1-M20*1.5 | φ180 | φ215 | φ250 | φ15 | 4 | 0 | φ110 | φ130 | φ160 | M8 | 3.5 | 0 | φ130 | φ165 | φ200 | 3.5 | φ12 | 0 | φ130 | φ165 | φ200 | 3.5 | M10 | 0 |
| ML 112 | 1-M25*1.5 | φ180 | φ215 | φ250 | φ15 | 4 | 0 | φ110 | φ130 | φ160 | M8 | 3.5 | 0 | φ130 | φ165 | φ200 | 3.5 | φ12 | 0 | φ130 | φ165 | φ200 | 3.5 | M10 | 0 |

Technical Data (at 50Hz)

| Model | Power (kw) | T_{max}/T_n (Times) | T_{start}/T_n (Times) | Power factor | Eff (%) | Speed (r/min) | Current 220V (A) |
|-----------|------------|-----------------------|-------------------------|--------------|---------|---------------|------------------|
| ML711-2 | 0.37 | 1.6 | 2.5 | 0.95 | 70.5 | 2780 | 2.51 |
| ML712-2 | 0.55 | 1.8 | 2.5 | 0.97 | 74.5 | 2790 | 3.46 |
| ML801-2 | 0.75 | 1.8 | 2.5 | 0.99 | 77.5 | 2840 | 4.44 |
| ML802-2 | 1.1 | 1.8 | 2.3 | 0.99 | 79.5 | 2850 | 6.35 |
| ML90S-2 | 1.5 | 1.8 | 2.5 | 0.99 | 80 | 2860 | 8.61 |
| ML90L-2 | 2.2 | 1.75 | 2.5 | 0.99 | 81 | 2850 | 12.5 |
| ML100L-2 | 3 | 1.63 | 2.5 | 0.98 | 75 | 2830 | 18.6 |
| ML112M1-2 | 3.7 | 1.8 | 2.5 | 0.98 | 82.5 | 2900 | 20.8 |

| | | | | | | | |
|-----------|------|------|-----|------|------|------|------|
| ML711-4 | 0.25 | 1.7 | 2.5 | 0.97 | 63 | 1415 | 1.86 |
| ML712-4 | 0.37 | 1.6 | 2.3 | 0.97 | 65.5 | 1410 | 2.65 |
| ML800-4 | 0.37 | 1.8 | 2.5 | 0.96 | 66.5 | 1420 | 2.63 |
| ML801-4 | 0.55 | 1.8 | 2.5 | 0.95 | 71.5 | 1420 | 3.68 |
| ML802-4 | 0.75 | 1.75 | 2.5 | 0.98 | 73 | 1420 | 4.77 |
| ML90S-4 | 1.1 | 1.7 | 2.5 | 0.95 | 76 | 1420 | 6.93 |
| ML90L-4 | 1.5 | 1.75 | 2.5 | 0.97 | 78.5 | 1420 | 8.95 |
| ML100L1-4 | 2.2 | 1.65 | 2.5 | 0.98 | 80.5 | 1440 | 12.7 |
| ML112M1-4 | 3 | 1.75 | 2.4 | 0.98 | 83.5 | 1430 | 20.6 |

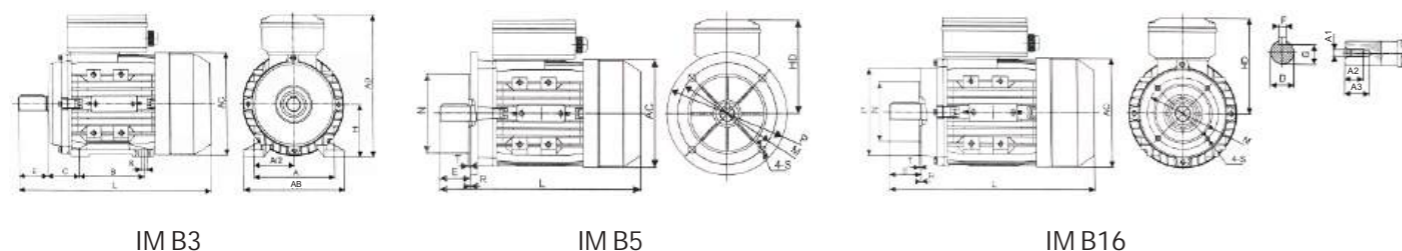
MY series

Single-Phase Capacitor Run
Asynchronous Motors
Aluminum Housing

MY series aluminum housing single-phase capacitor-run asynchronous motors, with latest design in entirety, are made of selected quality materials and conform to the IEC standard.

MY motors have good performance, safety and reliable operation, nice appearance, and can be maintained very conveniently, while with low noise, low vibration and lightweight and simple construction. The multiple of starting torque is 0.3-0.7(MY), 0.45-0.75(MYT).

These series motors are suitable for the occasion where the requirements of starting torque is low and long-term continuous running devices, such as home electric appliances, pumps, fans, and recording ding, etc.



Overall & Installation Dimensions

| FRAME | Mounting Dimensions | | | | | | | | | | Overall Dimensions | | | | | Shaft End Screw Dimensions | | |
|---------|---------------------|-----|-----|-----|----|-----|----|---|------|-------|--------------------|-----|-----|------|---------|----------------------------|----|----|
| | H | A | AB | B | C | D | E | F | G | K | W | AD | D | AC | L | A1 | A2 | A3 |
| MY 71 | 71 | 112 | 140 | 90 | 45 | φ14 | 30 | 5 | 11 | 7×10 | 132 | 198 | 127 | φ139 | 241/255 | M5 | 12 | 17 |
| MY 80 | 80 | 125 | 158 | 100 | 50 | φ19 | 40 | 6 | 15.5 | 10×13 | 160 | 227 | 147 | φ156 | 290 | M6 | 16 | 21 |
| MY 90S | 90 | 140 | 171 | 100 | 56 | φ24 | 50 | 8 | 20 | 10×13 | 175 | 245 | 155 | φ175 | 312 | M8 | 19 | 25 |
| MY 90L | 90 | 140 | 171 | 125 | 56 | φ24 | 50 | 8 | 20 | 10×13 | 175 | 245 | 155 | φ175 | 337/367 | M8 | 19 | 25 |
| MY 100L | 100 | 160 | 200 | 140 | 63 | φ28 | 60 | 8 | 24 | 12×15 | 198 | 267 | 167 | φ196 | 368/386 | M10 | 22 | 30 |

Overall & Installation Dimensions

| FRAME | KK | B5 | | | | | | B14 | | | | | | B5R | | | | | | B14B | | | | | |
|--------|-----------|------|------|------|-----|-----|---|------|------|------|----|-----|---|------|------|------|-----|-----|---|------|------|------|-----|-----|---|
| | | N | M | P | S | T | R | N | M | P | S | T | R | N | M | P | T | S | R | N | M | P | T | S | R |
| MY 71 | 1-M20*1.5 | φ110 | φ130 | φ160 | φ10 | 3.5 | 0 | φ70 | φ85 | φ105 | M6 | 2.5 | 0 | φ95 | φ115 | φ140 | 3 | φ10 | 0 | φ95 | φ115 | φ140 | 3 | M8 | 0 |
| MY 80 | 1-M20*1.5 | φ130 | φ165 | φ200 | φ12 | 3.5 | 0 | φ80 | φ100 | φ120 | M6 | 3 | 0 | φ110 | φ130 | φ160 | 3.5 | φ10 | 0 | φ110 | φ130 | φ160 | 3.5 | M8 | 0 |
| MY 90 | 1-M20*1.5 | φ130 | φ165 | φ200 | φ12 | 3.5 | 0 | φ95 | φ115 | φ140 | M8 | 3 | 0 | φ110 | φ130 | φ160 | 3.5 | φ10 | 0 | φ110 | φ130 | φ160 | 3.5 | M8 | 0 |
| MY 100 | 1-M20*1.5 | φ180 | φ215 | φ250 | φ15 | 4 | 0 | φ110 | φ130 | φ160 | M8 | 3.5 | 0 | φ130 | φ165 | φ200 | 3.5 | φ12 | 0 | φ130 | φ165 | φ200 | 3.5 | M10 | 0 |

Technical Data (at 50Hz)

| Model | Power (kw) | Current 220V (A) | Current 230V (A) | Current 240V (A) | Speed (r/min) | Eff (%) | Power factor | T _{max} /T _n (Times) | T _{max} /T _s (Times) | Starting Current (A) | Run Capacitor (μf/V) | Noise dB(A) | W.T (kg) |
|----------|------------|------------------|------------------|------------------|---------------|---------|--------------|--|--|----------------------|----------------------|-------------|----------|
| MY711-2 | 0.37 | 2.66 | 2.54 | 2.44 | 2780 | 68 | 0.93 | 0.5 | 1.64 | 9.5 | 12 μf/450V | 75 | 5.6 |
| MY712-2 | 0.55 | 3.60 | 3.45 | 3.30 | 2800 | 73 | 0.95 | 0.5 | 1.8 | 14.5 | 16 μf/450V | 75 | 6.95 |
| MY713-2 | 0.75 | 4.66 | 4.45 | 4.27 | 2840 | 75.5 | 0.97 | 0.48 | 1.8 | 20 | 25 μf/450V | 75 | 8.15 |
| MY801-2 | 0.75 | 4.72 | 4.51 | 4.32 | 2810 | 73 | 0.99 | 0.45 | 1.75 | 19 | 25 μf/450V | 75 | 8.5 |
| MY802-2 | 1.1 | 6.58 | 6.30 | 6.03 | 2810 | 77.5 | 0.98 | 0.45 | 1.8 | 30 | 35 μf/450V | 78 | 11 |
| MY803-2 | 1.5 | 8.86 | 8.48 | 8.12 | 2820 | 78.5 | 0.98 | 0.34 | 1.68 | 40 | 40 μf/450V | 80 | 12.75 |
| MY90S-2 | 1.5 | 8.83 | 8.45 | 8.09 | 2820 | 78 | 0.99 | 0.33 | 1.72 | 35 | 45 μf/450V | 80 | 13.7 |
| MY90L-2 | 2.2 | 12.6 | 12.1 | 11.6 | 2850 | 80 | 0.99 | 0.29 | 1.8 | 61 | 60 μf/450V | 80 | 16.7 |
| MY100L-2 | 3 | 17.4 | 16.7 | 16.0 | 2860 | 79 | 0.99 | 0.35 | 1.8 | 73 | 80 μf/450V | 83 | 23.1 |

| | | | | | | | | | | | | | |
|----------|------|------|------|------|------|------|------|------|------|------|------------|----|-------|
| MY710-4 | 0.18 | 1.39 | 1.33 | 1.28 | 1420 | 60.5 | 0.97 | 0.48 | 1.65 | 4 | 10 μf/450V | 65 | 5.2 |
| MY711-4 | 0.25 | 1.78 | 1.70 | 1.63 | 1410 | 64.5 | 0.99 | 0.5 | 1.6 | 5 | 12 μf/450V | 65 | 5.8 |
| MY712-4 | 0.37 | 2.54 | 2.43 | 2.33 | 1410 | 67.5 | 0.98 | 0.44 | 1.65 | 7.5 | 16 μf/450V | 68 | 6.9 |
| MY713-4 | 0.55 | 3.61 | 3.45 | 3.31 | 1385 | 70 | 0.99 | 0.45 | 1.47 | 10.5 | 20 μf/450V | 70 | 8.25 |
| MY800-4 | 0.37 | 2.49 | 2.38 | 2.28 | 1420 | 69 | 0.98 | 0.45 | 1.8 | 9 | 16 μf/450V | 68 | 8 |
| MY801-4 | 0.55 | 3.49 | 3.34 | 3.20 | 1420 | 73 | 0.98 | 0.45 | 1.78 | 13 | 20 μf/450V | 70 | 9.55 |
| MY802-4 | 0.75 | 4.62 | 4.42 | 4.24 | 1420 | 74.5 | 0.99 | 0.44 | 1.71 | 16.5 | 30 μf/450V | 70 | 10.45 |
| MY90S-4 | 1.1 | 6.58 | 6.30 | 6.03 | 1420 | 77.5 | 0.98 | 0.35 | 1.75 | 24 | 40 μf/450V | 73 | 13.1 |
| MY90L-4 | 1.5 | 8.93 | 8.55 | 8.19 | 1420 | 79.5 | 0.96 | 0.33 | 1.8 | 36 | 45 μf/450V | 75 | 16.45 |
| MY100L-4 | 2.2 | 13.6 | 13.0 | 12.5 | 1450 | 79 | 0.93 | 0.31 | 1.8 | 65 | 70 μf/450V | 78 | 22.8 |

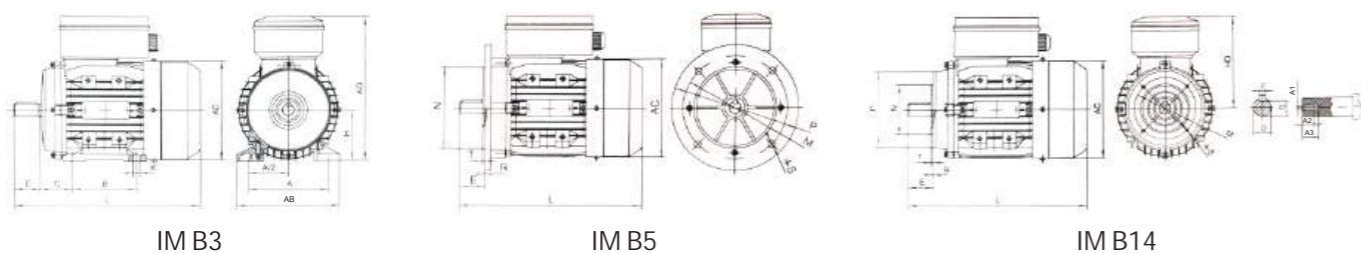
MC series

Single-Phase Capacitor Start
Asynchronous Motors
Aluminum Housing

MC Series aluminum housing single-phase capacitor-start asynchronous motors, with latest design in entirety, are made of selected quality materials and conform to the IEC standard.

MC motors have good performance, safe and reliable operation, nice appearance, and can be maintained very conveniently, while with low noise, low vibration and at the same time of light weight and simple construction. High starting torque, perfect starting performance, generally the multiple of the starting torque can be up to 3.0 times.

These series motors are suitable for the occasion where big starting torque and small starting current, such as air compressors, pumps, refrigerators, medical equipment, and many other machines needing full-load start.



Overall & Installation Dimensions

| FRAME | Mounting Dimensions | | | | | | | | | | Overall Dimensions | | | | | Shaft End Screw Dimensions | | |
|---------|---------------------|-----|-----|-----|----|-----|----|---|------|-------|--------------------|-----|-----|------|----------|----------------------------|----|----|
| | H | A | AB | B | C | D | E | F | G | K | W | AD | D | AC | L | A1 | A2 | A3 |
| MC 71 | 71 | 112 | 140 | 90 | 45 | φ14 | 30 | 5 | 11 | 7×10 | 132 | 198 | 127 | φ139 | 255 | M5 | 12 | 17 |
| MC 80 | 80 | 125 | 158 | 100 | 50 | φ19 | 40 | 6 | 15.5 | 10×13 | 160 | 227 | 147 | φ156 | 290 | M6 | 16 | 21 |
| MC 90S | 90 | 140 | 171 | 100 | 56 | φ24 | 50 | 8 | 20 | 10×13 | 175 | 245 | 155 | φ174 | 337 | M8 | 19 | 25 |
| MC 90L | 90 | 140 | 171 | 125 | 56 | φ24 | 50 | 8 | 20 | 10×13 | 175 | 245 | 155 | φ174 | 367 | M8 | 19 | 25 |
| MC 100L | 100 | 160 | 200 | 140 | 63 | φ28 | 60 | 8 | 24 | 12×15 | 198 | 267 | 167 | φ196 | 403(421) | M10 | 22 | 30 |
| MC 112M | 112 | 190 | 218 | 140 | 70 | φ28 | 60 | 8 | 24 | 12×15 | 220 | 299 | 187 | φ221 | 431 | M10 | 22 | 30 |

Overall & Installation Dimensions

| FRAME | KK | B5 | | | | | | B14 | | | | | | B5R | | | | | | B14B | | | | | |
|--------|-----------|------|------|------|-----|-----|---|------|------|------|----|-----|---|------|------|------|-----|-----|---|------|------|------|-----|-----|---|
| | | N | M | P | S | T | R | N | M | P | S | T | R | N | M | P | T | S | R | N | M | P | T | S | R |
| MC 71 | 1-M20*1.5 | φ110 | φ130 | φ160 | φ10 | 3.5 | 0 | φ70 | φ85 | φ105 | M6 | 2.5 | 0 | φ95 | φ115 | φ140 | 3 | φ10 | 0 | φ95 | φ115 | φ140 | 3 | M8 | 0 |
| MC 80 | 1-M20*1.5 | φ130 | φ165 | φ200 | φ12 | 3.5 | 0 | φ80 | φ100 | φ120 | M6 | 3 | 0 | φ110 | φ130 | φ160 | 3.5 | φ10 | 0 | φ110 | φ130 | φ160 | 3.5 | M8 | 0 |
| MC 90 | 1-M20*1.5 | φ130 | φ165 | φ200 | φ12 | 3.5 | 0 | φ95 | φ115 | φ140 | M8 | 3 | 0 | φ110 | φ130 | φ160 | 3.5 | φ10 | 0 | φ110 | φ130 | φ160 | 3.5 | M8 | 0 |
| MC 100 | 1-M20*1.5 | φ180 | φ215 | φ250 | φ15 | 4 | 0 | φ110 | φ130 | φ160 | M8 | 3.5 | 0 | φ130 | φ165 | φ200 | 3.5 | φ12 | 0 | φ130 | φ165 | φ200 | 3.5 | M10 | 0 |
| MC 112 | 1-M25*1.5 | φ180 | φ215 | φ250 | φ15 | 4 | 0 | φ110 | φ130 | φ160 | M8 | 3.5 | 0 | φ130 | φ165 | φ200 | 3.5 | φ12 | 0 | φ130 | φ165 | φ200 | 3.5 | M10 | 0 |

Technical Data (at 230V/50Hz)

| Model | Power (kw) | Current (A) | Speed (r/min) | Eff (%) | Power factor (cos φ) | T _{max} /T _n (Times) | T _{start} /T _n (Times) | Starting Current (A) | Start Capacitor (μf/V) | Noise dB(A) | W.T (kg) |
|-----------|------------|-------------|---------------|---------|----------------------|--|--|----------------------|------------------------|-------------|----------|
| MC711-2 | 0.18 | 1.86 | 2750 | 60 | 0.70 | 3.0 | 2.2 | 12 | 75 μf/250V | 70 | 5.8 |
| MC712-2 | 0.25 | 2.43 | 2780 | 62 | 0.72 | 3.0 | 2.2 | 15 | 75 μf/250V | 70 | 6.75 |
| MC801-2 | 0.37 | 3.46 | 2800 | 62 | 0.75 | 2.8 | 2.2 | 21 | 100 μf/250V | 75 | 9 |
| MC802-2 | 0.55 | 4.78 | 2800 | 65 | 0.77 | 2.8 | 2.2 | 29 | 150 μf/250V | 75 | 10.3 |
| MC90S-2 | 0.75 | 6.15 | 2810 | 68 | 0.78 | 2.5 | 2.2 | 37 | 200 μf/300V | 75 | 13 |
| MC90L-2 | 1.1 | 8.76 | 2820 | 70 | 0.78 | 2.5 | 2.2 | 60 | 250 μf/300V | 78 | 16 |
| MC100L1-2 | 1.5 | 11.5 | 2830 | 72 | 0.79 | 2.5 | 2.0 | 80 | 300 μf/300V | 83 | 22 |
| MC100L2-2 | 2.2 | 16.6 | 2840 | 73 | 0.79 | 2.2 | 2.0 | 120 | 400 μf/300V | 83 | 26 |
| MC112M-2 | 3.0 | 22.0 | 2850 | 74 | 0.8 | 2.2 | 1.9 | 150 | 600 μf/300V | 87 | 35.3 |
| MC711-4 | 0.12 | 1.86 | 1360 | 50 | 0.56 | 3.0 | 2.2 | 9 | 50 μf/250V | 65 | 5.6 |
| MC712-4 | 0.18 | 2.46 | 1380 | 53 | 0.6 | 2.8 | 2.2 | 12 | 75 μf/250V | 65 | 6.7 |
| MC801-4 | 0.25 | 3.07 | 1390 | 58 | 0.61 | 2.8 | 2.2 | 15 | 100 μf/250V | 65 | 9.6 |
| MC802-4 | 0.37 | 4.18 | 1400 | 62 | 0.62 | 2.5 | 2.2 | 21 | 100 μf/250V | 70 | 10.4 |
| MC90S-4 | 0.55 | 5.49 | 1400 | 66 | 0.66 | 2.5 | 2.0 | 29 | 150 μf/250V | 70 | 13 |
| MC90L-4 | 0.75 | 6.85 | 1410 | 68 | 0.7 | 2.5 | 2.0 | 37 | 150 μf/250V | 70 | 15 |
| MC100L1-4 | 1.1 | 9.49 | 1420 | 71 | 0.71 | 2.5 | 2.0 | 60 | 250 μf/300V | 73 | 20.7 |
| MC100L2-4 | 1.5 | 12.4 | 1430 | 73 | 0.72 | 2.5 | 2.0 | 80 | 400 μf/300V | 78 | 24.5 |
| MC112M-4 | 2.2 | 17.7 | 1440 | 74 | 0.73 | 2.2 | 1.9 | 120 | 600 μf/300V | 78 | 33.8 |

