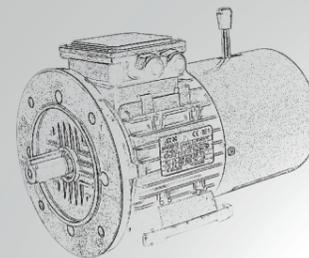
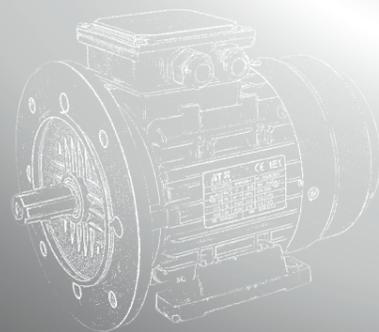
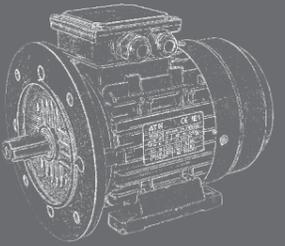


Motor



Catálogo técnico



ATX

m o t o r s



OVERVIEW

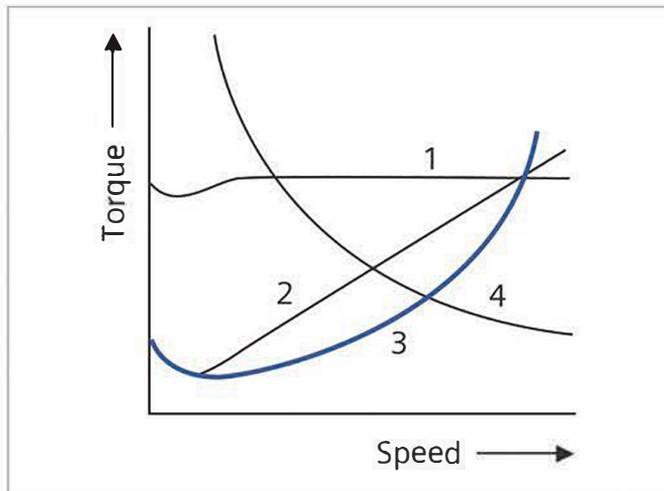
The IE1/IE2/IE3 series of 3 phase asynchronous motors are Totally Enclosed Fan Cooled (TEFC) with IP55 environmental protection. These motors are designed and manufactured in accordance with IEC standards.

Standard Features

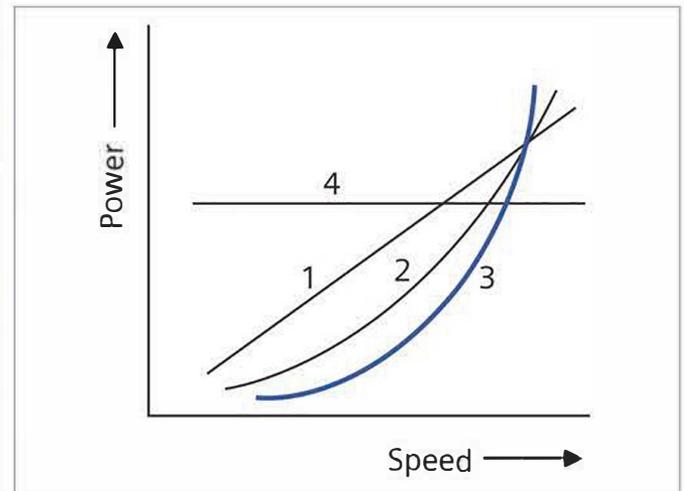
- **Frame material** : Cast Iron & Aluminum
- **Terminal box material** : Cast Iron & Aluminum
 - Plastic cable entry is standard (Metallic cable entry is optional)
- **Standard colour** : RAL 5010
- Specific wound stators supporting multiple 3PH mains supply voltages at 50Hz or 60Hz
- **Aluminum Frame sizes** : 63mm ~ 160mm
- **Cast Iron Frame sizes** : 80mm ~ 355mm
- **Rated power range** : 0.09kW ~ 355kW at 50Hz
- Standard mounting types and variations (IEC 60034-7)
 - TEFC with IP55 degree of protection (IEC 60034-5)
 - IP 55 Dust protected Jetting Water
 - IP 56 Dust protected Powerful Jetting
 - IP 65 Dust Tight Jetting Water
 - IP 66 Dust Tight Powerful Jetting
 - All Electric motor are protected to IP55 as a minimum Higher levels of protection are available on request ..
- Overload capacity of 1.5 times rated current for 2 minutes(IEC 60034-1)
- Oil seal as standard on DE and NDE rotor shaft for motor with FS 63-355
- Anti-condensation heater (space heater) as option
- Winding protection with PTC, PT130 or PT150 as option
- Insulation class: F, used according to temperature rise B
- Flexible cable entry (Rotatable terminal box)
- Rotor shaft with open or closed keyway (A type key) and NDE shaft extension
- Regreasing Nipples from size 160 and up

The IE1/IE2/IE3 is a general purpose motor with cast iron frame designed for constant or adjustable speed with continuous duty operation (S1) torque over a speed range.

Load torque characteristics



Torque / speed characteristic



Power / speed characteristic

1. Torque almost constant; power proportional to speed.
2. Torque increases proportionally with the speed; power proportional to the square of the speed.
3. Torque increases proportionally with the square of the speed; power proportional to the cube of the speed.
4. Torque decreases in inverse proportion to the speed; power constant.

Nameplate

Motor type
Duty cycle
Series No
Drive –end Bearing & Non-Drive-end bearing
Protection degree
Weight
Insulation class
Rated voltage
Rated frequency
RPM
Rated output
Electric current
Power factor

| ATX motors | | IEC 60034-1 | | CE | |
|---------------|------------|-------------|-------------------|------|----------|
| TYPE | IE1-71M1-2 | S1-100% | No. 0616200037001 | | |
| | 6202/C3 | 6202/C3 | IP 55 | 6 kg | Ins.cl F |
| | V | Hz | r/min | kW | COSφ |
| | 220~240 △ | 50 | 2740 | 0.37 | 0.81 |
| | 380~420 Y | 50 | 2740 | 0.37 | 0.81 |
| | 440~480 Y | 60 | 3285 | 0.37 | 0.81 |

Mechanical Design

Terminal box

Terminal boxes are top mounted as default on the motor. This box can be rotated by 4 X 90° to allow for cable entry from each direction. In addition the terminal box can be installed either on the Left Hand Side or Right Hand Side when viewed from the drive end (DE) side of the motor.

| Motor Type | Frame Size | Protection degree | Rotation of Terminal box | Number of Cable grand | Terminal Box material | Terminal bus | Max. cable Size(mm ²) | Cable entry size |
|-------------|------------|-------------------|--------------------------|-----------------------|-----------------------|--------------|-----------------------------------|------------------|
| IE1/IE2/IE3 | 63 | IP 55 | 4x90° | 1 | Aluminum | M4 | 2 | M18X1.5 |
| | 71 | IP 55 | 4x90° | 1 | Aluminum | M4 | 2 | M18X1.5 |
| | 80 | IP 55 | 4x90° | 1 | Aluminum | M4 | 2.5 | M20X1.5 |
| | 90 | IP 55 | 4x90° | 1 | Aluminum | M5 | 2.5 | M20X1.5 |
| | 100 | IP 55 | 4x90° | 1 | Aluminum | M5 | 4 | M25X1.5 |
| | 112 | IP 55 | 4x90° | 1 or 2 | Aluminum | M5 | 4 | M27X1.5 |
| | 132 | IP 55 | 4x90° | 1 or 2 | Aluminum | M5 | 6 | M27X1.5 |
| | 160 | IP 55 | 4x90° | 2 | Cast-iron | M6 | 10 | 2-M32X1.5 |
| | 180 | IP 55 | 4x90° | 2 | Cast-iron | M6 | 16 | 2-M32X1.5 |
| | 200 | IP 55 | 4x90° | 2 | Cast-iron | M8 | 25 | 2-M40X1.5 |
| | 225 | IP 55 | 4x90° | 2 | Cast-iron | M8 | 35 | 2-M40X1.5 |
| | 250 | IP 55 | 4x90° | 2 | Cast-iron | M10 | 120 | 2-M50X1.5 |
| | 280 | IP 55 | 4x90° | 2 | Cast-iron | M10 | 120 | 2-M50X1.5 |
| | 315 | IP 55 | 4x90° | 2 | Cast-iron | M16 | 240 | 2-M63X1.5 |
| | 355 | IP 55 | 4x90° | 2 | Cast-iron | M20 | 400 | 2-M72X2 |

Cooling and Ventilation

The standard motors from FS 80 ~ 355 are fitted with an radial flow fan for cooling in accordance with IEC 60034-6 cooling method. For applications where self ventilation is not adequate, an optional external blower can be ordered.

Bearing

All motors are supplied with the ball bearing as standard. FS 160 and above, roller bearings and angular contact ball bearings on options. These bearings are either of the sealed or regreasable type.

Bearing type

| Motor Type | Frame Size | Poles | Drive -end Bearing | Non-Drive-end bearing |
|-----------------|------------|---------|--------------------|-----------------------|
| IE1/IE2/IE3-63 | 63 | 2.4.6.8 | 6201 2RZC3 | 6201 2RZC3 |
| IE1/IE2/IE3-71 | 71 | 2.4.6.8 | 6202 2RZC3 | 6202 2RZC3 |
| IE1/IE2/IE3-80 | 80 | 2.4.6.8 | 6204 2RZC3 | 6204 2RZC3 |
| IE1/IE2/IE3-90 | 90 | 2.4.6.8 | 6205 2RZC3 | 6205 2RZC3 |
| IE1/IE2/IE3-100 | 100 | 2.4.6.8 | 6206 2RZC3 | 6206 2RZC3 |
| IE1/IE2/IE3-112 | 112 | 2.4.6.8 | 6306 2RZC3 | 6306 2RZC3 |
| IE1/IE2/IE3-132 | 132 | 2.4.6.8 | 6308 2RZC3 | 6308 2RZC3 |
| IE1/IE2/IE3-160 | 160 | 2.4.6.8 | 6309 C3 | 6309 C3 |
| IE1/IE2/IE3-180 | 180 | 2.4.6.8 | 6311 C3 | 6311 C3 |
| IE1/IE2/IE3-200 | 200 | 2.4.6.8 | 6312 C3 | 6312 C3 |
| IE1/IE2/IE3-225 | 225 | 2.4.6.8 | 6313 C3 | 6313 C3 |
| IE1/IE2/IE3-250 | 250 | 2.4.6.8 | 6314 C3 | 6314 C3 |
| IE1/IE2/IE3-280 | 280 | 2 | 6314 C3 | 6314 C3 |
| IE1/IE2/IE3-280 | 280 | 4.6.8 | 6317 C3 | 6317 C3 |
| IE1/IE2/IE3-315 | 315 | 2 | 6317 C3 | 6317 C3 |
| IE1/IE2/IE3-315 | 315 | 4.6.8 | 6319 C3 | 6319 C3 |
| IE1/IE2/IE3-355 | 355 | 2 | 6319 C3 | 6319 C3 |
| IE1/IE2/IE3-355 | 355 | 4.6.8 | 6322 C3 | 6322 C3 |

General Specifications

Voltages / Frequencies

Standard Voltages are 380v-420 50Hz and 440-480 60Hz

Insulation

The components of the insulation system are selected so as to ensure good protection against chemically aggressive gases, vapours, dust, oil and air humidity.

All materials used for insulating the winding and winding ends correspond to insulating classes F or H according to IEC 60085:

- -Enamel-insulated copper wires with temperature index 200(Class H);
- -Insulating sheet on polyester base (Class F);
- -Impregnation with fenolic resins modified with polyester resins (Class H);

Limit temperature for insulating material according IEC60085

| Insulation Class | Limit Temperature (°C) |
|------------------|--------------------------|
| B | 130 |
| F | 155 |
| H | 180 |

Temperature Rise

Standard single-speed continuous duty (S1) motors have temperature rise within class B limit.Motors with higher output and pole-changing motors normally have tempreture rise within Class F limit .

| Insulation Class | Max Temperature Rise (°C) |
|------------------|-----------------------------|
| B | 80 |
| F | 105 |
| H | 125 |

Temperature rises specified at a reference ambient air temperature of 40°C

PTC temperature sensor (thermistors):

It consist of 3 sensors connected in series embedded in the stator winding .

Once reaching the operating temperature,the device quickly changes its resistance;

it must be connected to a suitable releasing device (supplied on motors 11kW and above)

Duty Cycles

| | |
|---|---|
| S1 Continuous Duty | Operation under constant load,lasting long enough to allow the machine to reach thermal equilibrium. |
| S2 Short-Time Duty | Operation under constant load,for a time too short to allow the machine to reach thermal equilibrium.Idle time of the machine is long enough to allow the machine to cooldown to ambient temperature. Standard duration of short-term operation:10,30,60 and 90 minutes. |
| S3 Intermittent Periodic Duty | Operation under repeated,constant load in specified cycles.Neither operating nor resting period are long enough to allow the motor to reach thermal equilibrium.The starting losses are small and do not essentially influence the temperature rise.The nominal values of relative starting time are 15,25,40,60% at a daily 10-minute cycle. |
| S4 Intermittent Periodic Duty | Operation under repeated,constant load in specified cycles.The start of the motor influences the temperature rise. |
| S5 Intermittent Periodic Duty | Same as S4 operation,except that the electric braking of the machine has an essential influence on the temperature rise. |
| S6 Continuously Operation With Cyclic Load | Operation consisting of a continuous series of equal cycles.Each cycle is made up of noload and a constant load period.The cycle duration is not long enough to allow the machine to reach thermal equilibrium in one cycl.In order to define S6 operation , the relative starting time must be specified. |
| S7 Intermittent Periodic Duty with Starting and Braking | Uninterrupted operation with a series of constant loading and braking periods.The most demanding type of operation for the motor.In order to define this type of operation,The number of cycles per hour and the inertia constant must be specified. |
| S8 Intermittent Periodic Duty with pole Changing | This type of operation only exists with pole amplitude modulated motors.In this case the definition of operation must contain the following data for each pole: -Number of starts per hour -Inertia constant -Relative operation period |

Electrical Design

Reliable quality and performance

To ensure reliable and long life, the windings are made of materials with class F temperature rise limited to class B (80K) .

Voltage and Frequency

Standard motor will operate on mains power supplies in accordance with IEC 60034-1 Category A (combination of voltage deviation $\pm 5\%$ and frequency deviation $\pm 2\%$) voltage and frequency fluctuations

Rated Output

Rated output power refers to continuous duty (S1) operation in accordance with IEC 60034-1 when operated at 40°C ambient temperature and at site altitudes of 1000m or less. current overload is in accordance with IEC 60034-1(1.5 times for 2 minutes)

Environmental

- Suitable for IP55 installations
- Below or equal to 1000m above sea level
- Operating temperature between -20°C and 40°C
- Relative humidity

| Temperature | Relative Humidity |
|--|-------------------|
| $-20^{\circ}\text{C} \leq T \leq 20^{\circ}\text{C}$ | 100% |
| $20^{\circ}\text{C} < T \leq 30^{\circ}\text{C}$ | 95% |
| $30^{\circ}\text{C} < T \leq 40^{\circ}\text{C}$ | 55% |

Note: For other requirements, Hanzel should be consulted

If environmental conditions vary from those listed above, please consult the chart below for output power derating factor.

| | < 30°C | 30~40°C | 45°C | 50°C | 55°C | 60°C |
|-------|--------|---------|------|------|------|------|
| 1000m | 1.07 | 1.00 | 0.96 | 0.92 | 0.87 | 0.82 |
| 1500m | 1.04 | 0.97 | 0.93 | 0.89 | 0.84 | 0.79 |
| 2000m | 1.00 | 0.94 | 0.90 | 0.86 | 0.82 | 0.77 |
| 2500m | 0.96 | 0.90 | 0.86 | 0.83 | 0.78 | 0.74 |
| 3000m | 0.92 | 0.86 | 0.82 | 0.79 | 0.75 | 0.70 |
| 3500m | 0.88 | 0.82 | 0.79 | 0.75 | 0.71 | 0.67 |
| 4000m | 0.82 | 0.77 | 0.74 | 0.71 | 0.67 | 0.63 |

Space heater electrical data

| Frame Size | 80~90 | 100~112 | 132~160 | 180~200 | 225~280 | 315 | 355 |
|------------|-------|---------|---------|---------|---------|-----|-----|
| Power(W) | 20 | 30 | 40 | 50 | 60 | 80 | 110 |
| Voltage(V) | 220 | | | | | | |

Converter fed application

IE1 / IE2 / IE3 motors are suitable for pumps, fans, compressors, textile machine and mechanical machine applications where variable or constant speed is required. When motor operating with a constant load by a speed lower than 50% of rated speed, External separately driven fan.

Note:

(1) In application where the motor is driven by a converter, the degree of electrical interference depends on the type of converter used (type, number of IGBTs, interference suppression measures, and manufacturer), cabling, distance and application requirements. (2) The installation guidelines of the converter manufacturer with regards to electromagnetic compatibility must be considered at all times during the design and implementation phases.

Technical data for separated fan

| Motor frame size | Voltage (V) | Frequency (HZ) | Rated Output (kW) | Current Noise (A) | Speed (r/min) | Fan Power (m ³ /h) | Fan Pressure (Pa) |
|------------------|-------------|----------------|-------------------|-------------------|---------------|-------------------------------|-------------------|
| 80 | 380V | 50 | 30 | 0.08 | 2400 | 330 | 60 |
| 90 | 380V | 50 | 52 | 0.2 | 2800 | 390 | 60 |
| 100 | 380V | 50 | 52 | 0.2 | 2800 | 600 | 70 |
| 112 | 380V | 50 | 52 | 0.2 | 2800 | 800 | 80 |
| 132 | 380V | 50 | 40 | 0.1 | 2400 | 1000 | 70 |
| 160 | 380V | 50 | 80 | 0.23 | 1400 | 1000 | 50 |
| 180 | 380V | 50 | 80 | 0.23 | 1400 | 1200 | 55 |
| 200 | 380V | 50 | 230 | 0.71 | 1400 | 1800 | 65 |
| 225 | 380V | 50 | 230 | 0.71 | 1400 | 1800 | 65 |
| 250 | 380V | 50 | 230 | 0.71 | 1400 | 3300 | 85 |
| 280 | 380V | 50 | 230 | 0.71 | 1400 | 4000 | 110 |
| 315 | 380V | 50 | 370 | 1.1 | 1250 | 6200 | 180 |
| 355 | 380V | 50 | 550 | 1.8 | 1350 | 7000 | 180 |

Construction or mounting type

| Construction type | With feet and without flange on the end-shield (DE) | | | | | |
|-------------------|---|----------------------|----------------------|----------------------|----------------------|----------------------|
| Mounting type | IM B3 FS 80 ~ 355 | IM B6 FS 80 ~ 160 | IM B7 FS 80 ~ 160 | IM B8 FS 80 ~ 160 | IM V5 FS 80 ~ 225 | IM V6 FS 80 ~ 225 |
| Diagram | | | | | | |

| Construction type | Without feet and with flange on the end-shield (DE) | | | With feet and with flange on the end-shield (DE) | | | |
|-------------------|---|------------------------------------|--|--|-----------------------|-----------------------|-----------------------|
| Mounting type | IM B5 FS 80 ~ 280 | IM V1 ¹⁾ FS 80 ~ 355 | | IM V3 FS 80 ~ 160 | IM B35 FS 80 ~ 355 | IM V15 FS 80 ~ 160 | IM V36 FS 80 ~ 160 |
| Diagram | | | | | | | |

1) For IM V1 with canopy and without canopy, motor has different order number. Please find detailed information in "Technical data table".

Frequent malfunctions and solutions

| Stoppage | Possible reasons | Check or calibration methods |
|---|---|---|
| 1. No-load motor can't start | <ol style="list-style-type: none"> 1. Circuit broken wires (one of the three is the root) 2. When the child three-phase winding of the a phase breakers ("Y" type of connection) 3. The power supply voltage and frequency is wrong | <p>Check the power supply voltage or individual connection. Check the fuse, feeders of current and each phase of the winding resistance. Check voltage and frequency</p> |
| 2. Motor load in cannot begin at low load or no-load to start when, but in load increase speed that are even stop to plunge | <ol style="list-style-type: none"> 1. The low voltage power supply 2. The group turns around the son between short circuit 3. The stator three-phase winding out-of-phase break line ("Δ" then method) 4. Overload | <p>Check the line voltage; Check each phase windings and each phase no-load current; Check each phase winding resistance; Check the load</p> |
| 3. Motor stay in low rotation speed | <ol style="list-style-type: none"> 1. A connect the stator winding, motor hair crosstalk 2. The rotor ring and guide bar among fracture | <p>Check feeders current and lead wire mark; Check short-circuit current</p> |
| 4. Stator overheating | <ol style="list-style-type: none"> 1. Feeders three roots there was a break or stator winding a phase open circuit 2. The power supply voltage too big or too low 3. overload 4. Same stator circle or short circuit 5. And ventilated bad | <p>Check the fuse, line voltage and current between wire; Check the current in a feeders, Check the stator alternate with and ground insulation resistance; Check the winding resistance and stable way</p> |
| 5. Bearing overheating | <ol style="list-style-type: none"> 1. The assembly wrong 2. The motor shaft and the dragging is not parallel axis 3. No lubricating oil, oil impurities or oily bad there 4. Belts tight 5. Don't balance of magnetic big suction | <p>Check whether the rotor to turn; Correction two axis balance; Use the car wash oil changing; The belt or loose move feet; Check the air gap eccentric degrees</p> |
| 6. When feeder insurance facilities trip | <ol style="list-style-type: none"> 1. A connect the stator winding 2. Put a "Y" shall meet type stator windings to become "Δ" 3. Winding base to short circuit or alternate with short circuit | <p>Check mark and lead wire by law; Check mark and lead wire by law; Check the phase windings of the insulation and the same base of insulation</p> |
| 7. Mechanical vibration | <ol style="list-style-type: none"> 1. Relet not only in balance quite a low speed don't vibration 2. the axial moving there 3. transmission belt joint answered the bad 4. pulley is not even | <p>Check the balance situation; Check the clearance of bearing, and to make adjustments. To meet the belt; Check the pulley</p> |

Note: There are many reasons for the malfunctions, sometimes there might be several reasons for one problem, sometimes one reason might cause several problems. These listed in the table are just those frequent appeared, please don't hesitate to contact us while in need.

IE1 PERFORMANCE DATA

| Type No. | Rated output (kW) | HP | Rated current IFL 380V A | Rated current IFL 400V A | Rated current IFL 420V A | Rated speed (r/min) | Rated current IFL 440V A | Rated current IFL 460V A | Rated current IFL 480V A | Rated speed (r/min) | EFF % | Power factor cos φ | Rated Torque N.m | Start Torque Rated Torque TST/TFL | Start Torque Rated Torque IST/IFL | Max Torque Rated Torque TM/TFL | Noise level LW dB(A) | Weight (Kg) |
|-----------------------------|-------------------|------|--------------------------|--------------------------|--------------------------|---------------------|--------------------------|--------------------------|--------------------------|---------------------|-------|--------------------|------------------|-----------------------------------|-----------------------------------|--------------------------------|----------------------|-------------|
| | | | 380~420V/50Hz | | | | | | 440~480V/60Hz | | | | | | | | | |
| Synchronous speed 3000r/min | | | | | | | | | | | | | | | | | | |
| IE1-63M1-2 | 0.18 | 0.25 | 0.53 | 0.50 | 0.48 | 2720 | 0.46 | 0.44 | 0.42 | 3260 | 65.0 | 0.80 | 0.6 | 2.2 | 5.5 | 2.2 | 61 | 7 |
| IE1-63M2-2 | 0.25 | 0.37 | 0.69 | 0.66 | 0.62 | 2720 | 0.60 | 0.57 | 0.55 | 3260 | 68.0 | 0.81 | 0.9 | 2.2 | 5.5 | 2.2 | 61 | 8 |
| IE1-71M1-2 | 0.37 | 0.55 | 0.99 | 0.94 | 0.90 | 2740 | 0.86 | 0.82 | 0.78 | 3285 | 70.0 | 0.81 | 1.3 | 2.2 | 6.1 | 2.2 | 64 | 10 |
| IE1-71M2-2 | 0.55 | 0.75 | 1.4 | 1.33 | 1.27 | 2740 | 1.21 | 1.16 | 1.11 | 3285 | 73.0 | 0.82 | 1.9 | 2.2 | 6.1 | 2.3 | 64 | 11 |
| IE1-80M1-2 | 0.75 | 1.0 | 1.83 | 1.74 | 1.66 | 2825 | 1.58 | 1.51 | 1.45 | 3390 | 75.0 | 0.83 | 2.5 | 2.2 | 6.1 | 2.3 | 67 | 15 |
| IE1-80M2-2 | 1.1 | 1.5 | 2.61 | 2.48 | 2.36 | 2825 | 2.25 | 2.16 | 2.07 | 3390 | 77.0 | 0.84 | 3.7 | 2.2 | 7.0 | 2.3 | 67 | 16 |
| IE1-90S-2 | 1.5 | 2.0 | 3.46 | 3.29 | 3.13 | 2840 | 2.99 | 2.86 | 2.74 | 3405 | 79.0 | 0.84 | 5.0 | 2.2 | 7.0 | 2.3 | 72 | 19 |
| IE1-90L-2 | 2.2 | 3.0 | 4.85 | 4.61 | 4.39 | 2840 | 4.19 | 4.01 | 3.84 | 3405 | 81.0 | 0.85 | 7.4 | 2.2 | 7.0 | 2.3 | 72 | 22 |
| IE1-100L-2 | 3 | 4.0 | 6.34 | 6.02 | 5.74 | 2870 | 5.48 | 5.24 | 5.02 | 3440 | 83.0 | 0.87 | 10.0 | 2.2 | 7.5 | 2.3 | 76 | 32 |
| IE1-112M-2 | 4 | 5.5 | 8.20 | 7.79 | 7.42 | 2880 | 7.08 | 6.77 | 6.49 | 3455 | 85.0 | 0.88 | 13.3 | 2.2 | 7.5 | 2.3 | 77 | 39 |
| IE1-132S1-2 | 5.5 | 7.5 | 11.1 | 10.5 | 10.0 | 2900 | 9.59 | 9.17 | 8.79 | 3480 | 86.0 | 0.88 | 18.1 | 2.2 | 7.5 | 2.3 | 80 | 58 |
| IE1-132S2-2 | 7.5 | 10 | 14.9 | 14.2 | 13.5 | 2900 | 12.9 | 12.3 | 11.8 | 3480 | 87.0 | 0.88 | 24.7 | 2.2 | 7.5 | 2.3 | 80 | 66 |
| IE1-160M1-2 | 11 | 15 | 21.2 | 20.1 | 19.2 | 2930 | 18.3 | 17.5 | 16.8 | 3515 | 88.4 | 0.89 | 35.9 | 2.2 | 7.5 | 2.3 | 86 | 104 |
| IE1-160M2-2 | 15 | 20 | 28.6 | 27.2 | 25.9 | 2930 | 24.7 | 23.6 | 22.6 | 3515 | 89.4 | 0.89 | 48.9 | 2.2 | 7.5 | 2.3 | 86 | 112 |
| IE1-160L-2 | 18.5 | 25 | 34.7 | 33.0 | 31.4 | 2930 | 30.0 | 28.7 | 27.5 | 3515 | 90.0 | 0.90 | 60.3 | 2.2 | 7.5 | 2.3 | 86 | 132 |
| IE1-180M-2 | 22 | 30 | 41.0 | 39.0 | 37.1 | 2940 | 35.4 | 33.9 | 32.5 | 3525 | 90.5 | 0.90 | 71.5 | 2.0 | 7.5 | 2.3 | 89 | 162 |
| IE1-200L1-2 | 30 | 40 | 55.4 | 52.6 | 50.1 | 2950 | 47.9 | 45.8 | 43.9 | 3540 | 91.4 | 0.90 | 97.1 | 2.0 | 7.5 | 2.3 | 92 | 225 |
| IE1-200L2-2 | 37 | 50 | 67.9 | 64.5 | 61.4 | 2950 | 58.6 | 56.1 | 53.8 | 3540 | 92.0 | 0.90 | 119.8 | 2.0 | 7.5 | 2.3 | 92 | 245 |
| IE1-225M-2 | 45 | 60 | 82.1 | 78.0 | 74.3 | 2960 | 70.9 | 67.8 | 65.0 | 3550 | 92.5 | 0.90 | 145.2 | 2.0 | 7.5 | 2.3 | 92 | 290 |
| IE1-250M-2 | 55 | 75 | 99.8 | 94.8 | 90.3 | 2965 | 86.2 | 82.4 | 79.0 | 3555 | 93.0 | 0.90 | 177.2 | 2.0 | 7.5 | 2.3 | 93 | 367 |
| IE1-280S-2 | 75 | 100 | 135.3 | 128.5 | 122.4 | 2970 | 116.9 | 111.8 | 107.1 | 3560 | 93.6 | 0.90 | 241.2 | 2.0 | 7.5 | 2.3 | 94 | 495 |
| IE1-280M-2 | 90 | 120 | 160.0 | 152.0 | 144.8 | 2970 | 138.2 | 132.2 | 126.7 | 3560 | 93.9 | 0.91 | 289.4 | 2.0 | 7.5 | 2.3 | 94 | 540 |
| IE1-315S-2 | 110 | 150 | 195.4 | 185.6 | 176.8 | 2975 | 168.8 | 161.4 | 154.7 | 3570 | 94.0 | 0.91 | 353.1 | 1.8 | 7.1 | 2.2 | 96 | 880 |
| IE1-315M-2 | 132 | 180 | 233.2 | 221.5 | 211.0 | 2975 | 201.4 | 192.6 | 184.6 | 3570 | 94.5 | 0.91 | 423.7 | 1.8 | 7.1 | 2.2 | 96 | 1000 |
| IE1-315L1-2 | 160 | 220 | 279.3 | 265.3 | 252.7 | 2975 | 241.2 | 230.7 | 221.1 | 3570 | 94.6 | 0.92 | 513.6 | 1.8 | 7.1 | 2.2 | 99 | 1080 |
| IE1-315L2-2 | 200 | 270 | 348.4 | 331.0 | 315.2 | 2975 | 300.9 | 287.8 | 275.8 | 3570 | 94.8 | 0.92 | 642.0 | 1.8 | 7.1 | 2.2 | 99 | 1130 |
| IE1-355M-2 | 250 | 340 | 433.7 | 412.0 | 392.4 | 2980 | 374.6 | 358.3 | 343.4 | 3575 | 95.3 | 0.92 | 801.2 | 1.6 | 7.1 | 2.2 | 103 | 1560 |
| IE1-355L-2 | 315 | 430 | 545.3 | 518.0 | 493.4 | 2980 | 470.9 | 450.5 | 431.7 | 3575 | 95.6 | 0.92 | 1009.5 | 1.6 | 7.1 | 2.2 | 103 | 1740 |

IE1 PERFORMANCE DATA

| Type No. | Rated output (kW) | HP | Rated current | Rated current | Rated current | Rated speed (r/min) | Rated current | Rated current | Rated current | Rated speed (r/min) | EFF % | Power factor cos φ | Rated Torque N.m | Start Torque | Start Torque | Max Torque | Noise level LW dB(A) | Weight (Kg) |
|-----------------------------|-------------------|------|---------------|---------------|---------------|---------------------|---------------|---------------|---------------|---------------------|-------|--------------------|------------------|----------------------|----------------------|------------|----------------------|-------------|
| | | | IFL 380V A | IFL 400V A | IFL 420V A | | IFL 440V A | IFL 460V A | IFL 480V A | | | | | Rated Torque TST/TFL | Rated Torque IST/IFL | | | |
| | | | 380~420V/50Hz | | | | 440~480V/60Hz | | | | | | | | | | | |
| Synchronous speed 1500r/min | | | | | | | | | | | | | | | | | | |
| IE1-63M1-4 | 0.12 | 0.18 | 0.44 | 0.42 | 0.40 | 1310 | 0.38 | 0.36 | 0.35 | 1570 | 57.0 | 0.72 | 0.9 | 2.1 | 4.4 | 2.2 | 52 | 7.5 |
| IE1-63M2-4 | 0.18 | 0.25 | 0.62 | 0.59 | 0.56 | 1310 | 0.54 | 0.51 | 0.49 | 1570 | 60.0 | 0.73 | 1.3 | 2.1 | 4.4 | 2.2 | 52 | 8.5 |
| IE1-71M1-4 | 0.25 | 0.37 | 0.79 | 0.75 | 0.71 | 1330 | 0.68 | 0.65 | 0.63 | 1595 | 65.0 | 0.74 | 1.8 | 2.1 | 5.2 | 2.2 | 55 | 10.5 |
| IE1-71M2-4 | 0.37 | 0.55 | 1.12 | 1.06 | 1.01 | 1330 | 0.97 | 0.93 | 0.89 | 1595 | 67.0 | 0.75 | 2.7 | 2.1 | 5.2 | 2.2 | 55 | 11.5 |
| IE1-80M1-4 | 0.55 | 0.75 | 1.57 | 1.49 | 1.42 | 1390 | 1.36 | 1.30 | 1.24 | 1665 | 71.0 | 0.75 | 3.8 | 2.4 | 5.2 | 2.3 | 58 | 15 |
| IE1-80M2-4 | 0.75 | 1.00 | 2.05 | 1.95 | 1.85 | 1390 | 1.77 | 1.69 | 1.62 | 1665 | 73.0 | 0.76 | 5.2 | 2.3 | 6.0 | 2.3 | 58 | 16 |
| IE1-90S-4 | 1.1 | 1.5 | 2.85 | 2.71 | 2.58 | 1400 | 2.46 | 2.35 | 2.26 | 1680 | 76.2 | 0.77 | 7.6 | 2.3 | 6.0 | 2.3 | 61 | 20 |
| IE1-90L-4 | 1.5 | 2.0 | 3.68 | 3.50 | 3.33 | 1400 | 3.18 | 3.04 | 2.91 | 1680 | 78.5 | 0.79 | 10.3 | 2.3 | 6.0 | 2.3 | 61 | 23 |
| IE1-100L1-4 | 2.2 | 3.0 | 5.09 | 4.84 | 4.61 | 1420 | 4.40 | 4.20 | 4.03 | 1700 | 81.0 | 0.81 | 14.9 | 2.3 | 7.0 | 2.3 | 64 | 31 |
| IE1-100L2-4 | 3 | 4.0 | 6.73 | 6.39 | 6.09 | 1420 | 5.81 | 5.56 | 5.33 | 1700 | 82.6 | 0.82 | 20.3 | 2.3 | 7.0 | 2.3 | 64 | 35 |
| IE1-112M-4 | 4 | 5.5 | 8.80 | 8.36 | 7.96 | 1440 | 7.60 | 7.27 | 6.97 | 1725 | 84.2 | 0.82 | 26.5 | 2.3 | 7.0 | 2.3 | 65 | 41 |
| IE1-132S-4 | 5.5 | 7.5 | 11.7 | 11.1 | 10.6 | 1440 | 10.1 | 9.67 | 9.26 | 1725 | 85.7 | 0.83 | 36.5 | 2.3 | 7.0 | 2.3 | 71 | 60 |
| IE1-132M-4 | 7.5 | 10.0 | 15.6 | 14.8 | 14.1 | 1440 | 13.5 | 12.9 | 12.4 | 1725 | 87.0 | 0.84 | 49.7 | 2.3 | 7.0 | 2.3 | 71 | 74 |
| IE1-160M-4 | 11 | 15 | 22.5 | 21.4 | 20.4 | 1460 | 19.4 | 18.6 | 17.8 | 1750 | 88.4 | 0.84 | 72.0 | 2.2 | 7.0 | 2.3 | 75 | 108 |
| IE1-160L-4 | 15 | 20 | 30.0 | 28.5 | 27.1 | 1460 | 25.9 | 24.8 | 23.8 | 1750 | 89.4 | 0.85 | 98.1 | 2.2 | 7.5 | 2.3 | 75 | 128 |
| IE1-180M-4 | 18.5 | 25 | 36.3 | 34.5 | 32.8 | 1465 | 31.4 | 30.0 | 28.7 | 1755 | 90.5 | 0.86 | 120.2 | 2.2 | 7.5 | 2.3 | 76 | 158 |
| IE1-180L-4 | 22 | 30 | 42.9 | 40.8 | 38.8 | 1465 | 37.1 | 35.4 | 34.0 | 1755 | 91.0 | 0.86 | 142.9 | 2.2 | 7.5 | 2.3 | 76 | 172 |
| IE1-200L-4 | 30 | 40 | 58.0 | 55.1 | 52.5 | 1470 | 50.1 | 47.9 | 45.9 | 1760 | 92.0 | 0.86 | 194.9 | 2.2 | 7.2 | 2.3 | 79 | 241 |
| IE1-225S-4 | 37 | 50 | 70.2 | 66.7 | 63.5 | 1475 | 60.6 | 58.0 | 55.6 | 1770 | 92.5 | 0.87 | 239.6 | 2.2 | 7.2 | 2.3 | 81 | 280 |
| IE1-225M-4 | 45 | 60 | 85.0 | 80.8 | 76.9 | 1475 | 73.4 | 70.2 | 67.3 | 1770 | 92.8 | 0.87 | 291.4 | 2.2 | 7.2 | 2.3 | 81 | 305 |
| IE1-250M-4 | 55 | 75 | 103.3 | 98.1 | 93.5 | 1475 | 89.2 | 85.3 | 81.8 | 1770 | 93.0 | 0.87 | 354.9 | 2.2 | 7.2 | 2.3 | 83 | 375 |
| IE1-280S-4 | 75 | 100 | 139.3 | 132.3 | 126.0 | 1480 | 120.3 | 115.1 | 110.3 | 1775 | 93.8 | 0.87 | 484.0 | 2.2 | 7.2 | 2.3 | 86 | 507 |
| IE1-280M-4 | 90 | 120 | 167.4 | 159.0 | 151.5 | 1480 | 144.6 | 138.3 | 132.5 | 1775 | 94.2 | 0.87 | 580.7 | 2.2 | 7.2 | 2.3 | 86 | 572 |
| IE1-315S-4 | 110 | 150 | 201.0 | 191.0 | 181.9 | 1480 | 173.6 | 166.0 | 159.1 | 1775 | 94.5 | 0.88 | 709.8 | 2.1 | 6.9 | 2.2 | 93 | 930 |
| IE1-315M-4 | 132 | 180 | 240.4 | 228.4 | 217.5 | 1480 | 207.6 | 198.6 | 190.3 | 1775 | 94.8 | 0.88 | 851.8 | 2.1 | 6.9 | 2.2 | 93 | 1050 |
| IE1-315L1-4 | 160 | 220 | 287.8 | 273.4 | 260.4 | 1480 | 248.6 | 237.8 | 227.8 | 1775 | 94.9 | 0.89 | 1032.4 | 2.1 | 6.9 | 2.2 | 97 | 1110 |
| IE1-315L2-4 | 200 | 270 | 359.8 | 341.8 | 325.5 | 1480 | 310.7 | 297.2 | 284.8 | 1775 | 95.0 | 0.89 | 1290.5 | 2.1 | 6.9 | 2.2 | 97 | 1180 |
| IE1-355M-4 | 250 | 340 | 443.3 | 421.1 | 401.1 | 1490 | 382.9 | 366.2 | 351.0 | 1785 | 95.3 | 0.90 | 1602.3 | 2.1 | 6.9 | 2.2 | 101 | 1580 |
| IE1-355L-4 | 315 | 430 | 558.6 | 530.7 | 505.4 | 1490 | 482.4 | 461.5 | 442.2 | 1785 | 95.6 | 0.90 | 2019.0 | 2.1 | 6.9 | 2.2 | 101 | 1750 |

IE1 PERFORMANCE DATA

| Type No. | Rated output (kW) | HP | Rated current | Rated current | Rated current | Rated speed | Rated current | Rated current | Rated current | Rated speed | EFF % | Power factor cos φ | Rated Torque N.m | Start Torque Rated Torque TST/TFL | Start Torque Rated Torque IST/IFL | Max Torque Rated Torque TM/TFL | Noise level LW dB(A) | Weight (Kg) |
|-----------------------------|-------------------|------|---------------|---------------|---------------|-------------|---------------|---------------|---------------|-------------|-------|--------------------|------------------|-----------------------------------|-----------------------------------|--------------------------------|----------------------|-------------|
| | | | IFL 380V A | IFL 400V A | IFL 420V A | (r/min) | IFL 440V A | IFL 460V A | IFL 480V A | | | | | | | | | |
| | | | 380~420V/50Hz | | | | 440~480V/60Hz | | | | | | | | | | | |
| Synchronous speed 1000r/min | | | | | | | | | | | | | | | | | | |
| IE1-71M1-6 | 0.18 | 0.25 | 0.74 | 0.70 | 0.67 | 850 | 0.64 | 0.61 | 0.59 | 1020 | 56.0 | 0.66 | 2.0 | 1.9 | 4.0 | 2.0 | 52 | 10 |
| IE1-71M2-6 | 0.25 | 0.37 | 0.95 | 0.90 | 0.86 | 850 | 0.82 | 0.78 | 0.75 | 1020 | 59.0 | 0.68 | 2.8 | 1.9 | 4.0 | 2.0 | 52 | 11 |
| IE1-80M1-6 | 0.37 | 0.50 | 1.30 | 1.24 | 1.18 | 900 | 1.12 | 1.07 | 1.03 | 1080 | 62.0 | 0.70 | 4.0 | 1.9 | 4.7 | 2.0 | 54 | 15 |
| IE1-80M2-6 | 0.55 | 0.75 | 1.79 | 1.70 | 1.62 | 900 | 1.55 | 1.48 | 1.42 | 1080 | 65.0 | 0.72 | 5.9 | 1.9 | 4.7 | 2.1 | 54 | 16 |
| IE1-90S-6 | 0.75 | 1.00 | 2.29 | 2.18 | 2.07 | 910 | 1.98 | 1.89 | 1.81 | 1090 | 69.0 | 0.72 | 7.9 | 2.0 | 5.5 | 2.1 | 57 | 20 |
| IE1-90L-6 | 1.1 | 1.5 | 3.18 | 3.02 | 2.88 | 910 | 2.75 | 2.63 | 2.52 | 1090 | 72.0 | 0.73 | 11.5 | 2.0 | 5.5 | 2.1 | 57 | 23 |
| IE1-100L-6 | 1.5 | 2.0 | 4.00 | 3.80 | 3.62 | 930 | 3.45 | 3.30 | 3.17 | 1115 | 76.0 | 0.75 | 15.6 | 2.0 | 5.5 | 2.1 | 61 | 30 |
| IE1-112M-6 | 2.2 | 3.0 | 5.57 | 5.29 | 5.04 | 940 | 4.81 | 4.60 | 4.41 | 1125 | 79.0 | 0.76 | 22.5 | 2.0 | 6.5 | 2.1 | 65 | 39 |
| IE1-132S-6 | 3 | 4.0 | 7.40 | 7.03 | 6.70 | 960 | 6.39 | 6.11 | 5.86 | 1150 | 81.0 | 0.76 | 29.8 | 2.1 | 6.5 | 2.1 | 69 | 55 |
| IE1-132M1-6 | 4 | 5.5 | 9.75 | 9.26 | 8.82 | 960 | 8.42 | 8.05 | 7.72 | 1150 | 82.0 | 0.76 | 39.8 | 2.1 | 6.5 | 2.1 | 69 | 68 |
| IE1-132M2-6 | 5.5 | 7.5 | 12.9 | 12.3 | 11.7 | 960 | 11.1 | 10.7 | 10.2 | 1150 | 84.0 | 0.77 | 54.4 | 2.1 | 6.5 | 2.1 | 69 | 73 |
| IE1-160M-6 | 7.5 | 10.0 | 17.2 | 16.3 | 15.6 | 970 | 14.9 | 14.2 | 13.6 | 1160 | 86.0 | 0.77 | 73.8 | 2.0 | 6.5 | 2.1 | 73 | 104 |
| IE1-160L-6 | 11 | 15 | 24.5 | 23.3 | 22.2 | 970 | 21.2 | 20.2 | 19.4 | 1160 | 87.5 | 0.78 | 108.3 | 2.0 | 6.5 | 2.1 | 73 | 126 |
| IE1-180L-6 | 15 | 20 | 31.6 | 30.0 | 28.6 | 970 | 27.3 | 26.1 | 25.0 | 1160 | 89.0 | 0.81 | 147.7 | 2.0 | 7.0 | 2.1 | 73 | 168 |
| IE1-200L1-6 | 18.5 | 25 | 38.6 | 36.7 | 34.9 | 975 | 33.3 | 31.9 | 30.6 | 1170 | 90.0 | 0.81 | 180.3 | 2.1 | 7.0 | 2.1 | 76 | 215 |
| IE1-200L2-6 | 22 | 30 | 44.7 | 42.5 | 40.4 | 975 | 38.6 | 36.9 | 35.4 | 1170 | 90.0 | 0.83 | 214.4 | 2.1 | 7.0 | 2.1 | 76 | 238 |
| IE1-225M-6 | 30 | 40 | 59.3 | 56.3 | 53.7 | 980 | 51.2 | 49.0 | 47.0 | 1175 | 91.5 | 0.84 | 292.3 | 2.0 | 7.0 | 2.1 | 76 | 280 |
| IE1-250M-6 | 37 | 50 | 71.1 | 67.6 | 64.3 | 980 | 61.4 | 58.7 | 56.3 | 1175 | 92.0 | 0.86 | 360.6 | 2.1 | 7.0 | 2.1 | 78 | 350 |
| IE1-280S-6 | 45 | 60 | 85.9 | 81.6 | 77.7 | 980 | 74.2 | 71.0 | 68.0 | 1175 | 92.5 | 0.86 | 438.5 | 2.1 | 7.0 | 2.0 | 80 | 463 |
| IE1-280M-6 | 55 | 75 | 104.7 | 99.5 | 94.7 | 980 | 90.4 | 86.5 | 82.9 | 1175 | 92.8 | 0.86 | 536.0 | 2.1 | 7.0 | 2.0 | 80 | 508 |
| IE1-315S-6 | 75 | 100 | 141.7 | 134.6 | 128.2 | 985 | 122.4 | 117.1 | 112.2 | 1180 | 93.5 | 0.86 | 727.2 | 2.0 | 7.0 | 2.0 | 85 | 860 |
| IE1-315M-6 | 90 | 120 | 169.5 | 161.0 | 153.4 | 985 | 146.4 | 140.0 | 134.2 | 1180 | 93.8 | 0.86 | 872.6 | 2.0 | 7.0 | 2.0 | 85 | 980 |
| IE1-315L1-6 | 110 | 150 | 206.7 | 196.4 | 187.0 | 985 | 178.5 | 170.8 | 163.6 | 1180 | 94.0 | 0.86 | 1066.5 | 2.0 | 6.7 | 2.0 | 85 | 1060 |
| IE1-315L2-6 | 132 | 180 | 244.7 | 232.5 | 221.4 | 985 | 211.3 | 202.1 | 193.7 | 1180 | 94.2 | 0.87 | 1279.8 | 2.0 | 6.7 | 2.0 | 85 | 1135 |
| IE1-355M1-6 | 160 | 220 | 292.3 | 277.7 | 264.5 | 990 | 252.4 | 241.5 | 231.4 | 1185 | 94.5 | 0.88 | 1543.4 | 1.9 | 6.7 | 2.0 | 92 | 1480 |
| IE1-355M2-6 | 200 | 270 | 365.4 | 347.1 | 330.6 | 990 | 315.6 | 301.9 | 289.3 | 1185 | 94.7 | 0.88 | 1929.3 | 1.9 | 6.7 | 2.0 | 92 | 1640 |
| IE1-355L-6 | 250 | 340 | 456.8 | 434.0 | 413.3 | 990 | 394.5 | 377.4 | 361.6 | 1185 | 94.9 | 0.88 | 2411.6 | 1.9 | 6.7 | 2.0 | 92 | 1810 |

IE1 PERFORMANCE DATA

| Type No. | Rated output (kW) | HP | Rated current IFL 380V A | Rated current IFL 400V A | Rated current IFL 420V A | Rated speed (r/min) | Rated current IFL 440V A | Rated current IFL 460V A | Rated current IFL 480V A | Rated speed (r/min) | EFF % | Power factor cos φ | Rated Torque N.m | Start Torque Rated Torque TST/TFL | Start Torque Rated Torque IST/IFL | Max Torque Rated Torque TM/TFL | Noise level LW dB(A) | Weight (Kg) |
|----------------------------|-------------------|------|--------------------------|--------------------------|--------------------------|---------------------|--------------------------|--------------------------|--------------------------|---------------------|-------|--------------------|------------------|-----------------------------------|-----------------------------------|--------------------------------|----------------------|-------------|
| | | | 380~420V/50Hz | | | 440~480V/60Hz | | | | | | | | | | | | |
| Synchronous speed 750r/min | | | | | | | | | | | | | | | | | | |
| IE1-80M1-8 | 0.18 | 0.25 | 0.88 | 0.84 | 0.80 | 650 | 0.76 | 0.73 | 0.70 | 780 | 51.0 | 0.61 | 2.7 | 1.8 | 3.3 | 1.9 | 52 | 15 |
| IE1-80M2-8 | 0.25 | 0.37 | 1.15 | 1.09 | 1.04 | 650 | 0.99 | 0.95 | 0.91 | 780 | 54.0 | 0.61 | 3.7 | 1.8 | 3.3 | 1.9 | 52 | 16 |
| IE1-90S-8 | 0.37 | 0.50 | 1.49 | 1.42 | 1.35 | 660 | 1.29 | 1.23 | 1.18 | 790 | 62.0 | 0.61 | 5.3 | 1.8 | 4.0 | 1.9 | 56 | 20 |
| IE1-90L-8 | 0.55 | 0.75 | 2.17 | 2.06 | 1.96 | 660 | 1.87 | 1.79 | 1.72 | 790 | 63.0 | 0.61 | 7.8 | 1.8 | 4.0 | 2.0 | 56 | 24 |
| IE1-100L1-8 | 0.75 | 1.00 | 2.40 | 2.28 | 2.17 | 690 | 2.07 | 1.98 | 1.90 | 825 | 71.0 | 0.67 | 10.5 | 1.8 | 4.0 | 2.0 | 59 | 28 |
| IE1-100L2-8 | 1.1 | 1.5 | 3.32 | 3.15 | 3.00 | 690 | 2.87 | 2.74 | 2.63 | 825 | 73.0 | 0.69 | 15.4 | 1.8 | 5.0 | 2.0 | 59 | 30 |
| IE1-112M-8 | 1.5 | 2.0 | 4.40 | 4.18 | 3.98 | 700 | 3.80 | 3.63 | 3.48 | 840 | 75.0 | 0.69 | 20.8 | 1.8 | 5.0 | 2.0 | 61 | 38 |
| IE1-132S-8 | 2.2 | 3.0 | 6.04 | 5.74 | 5.46 | 710 | 5.22 | 4.99 | 4.78 | 850 | 78.0 | 0.71 | 29.8 | 1.8 | 6.0 | 2.0 | 64 | 54 |
| IE1-132M-8 | 3 | 4.0 | 7.90 | 7.51 | 7.15 | 710 | 6.82 | 6.53 | 6.25 | 850 | 79.0 | 0.73 | 40.6 | 1.8 | 6.0 | 2.0 | 64 | 63 |
| IE1-160M1-8 | 4 | 5.5 | 10.3 | 9.79 | 9.32 | 720 | 8.90 | 8.51 | 8.15 | 860 | 81.0 | 0.73 | 53.1 | 1.9 | 6.0 | 2.0 | 68 | 91 |
| IE1-160M2-8 | 5.5 | 7.5 | 13.6 | 12.9 | 12.3 | 720 | 11.8 | 11.2 | 10.8 | 860 | 83.0 | 0.74 | 73.0 | 2.0 | 6.0 | 2.0 | 68 | 103 |
| IE1-160L-8 | 7.5 | 10.0 | 17.8 | 16.9 | 16.1 | 720 | 15.4 | 14.7 | 14.1 | 860 | 85.5 | 0.75 | 99.5 | 2.0 | 6.0 | 2.0 | 68 | 128 |
| IE1-180L-8 | 11 | 15 | 25.1 | 23.9 | 22.7 | 730 | 21.7 | 20.7 | 19.9 | 875 | 87.5 | 0.76 | 143.9 | 2.0 | 6.6 | 2.0 | 70 | 165 |
| IE1-200L-8 | 15 | 20 | 34.1 | 32.4 | 30.9 | 730 | 29.5 | 28.2 | 27.0 | 875 | 88.0 | 0.76 | 196.2 | 2.0 | 6.6 | 2.0 | 73 | 224 |
| IE1-225S-8 | 18.5 | 25 | 41.1 | 39.1 | 37.2 | 730 | 35.5 | 34.0 | 32.5 | 875 | 90.0 | 0.76 | 242.0 | 1.9 | 6.6 | 2.0 | 73 | 255 |
| IE1-225M-8 | 22 | 30 | 47.4 | 45.0 | 42.9 | 730 | 40.9 | 39.2 | 37.5 | 875 | 90.5 | 0.78 | 287.8 | 1.9 | 6.6 | 2.0 | 73 | 292 |
| IE1-250M-8 | 30 | 40 | 63.4 | 60.2 | 57.4 | 735 | 54.8 | 52.4 | 50.2 | 880 | 91.0 | 0.79 | 389.8 | 1.9 | 6.6 | 2.0 | 75 | 368 |
| IE1-280S-8 | 37 | 50 | 77.8 | 73.9 | 70.4 | 735 | 67.2 | 64.3 | 61.6 | 880 | 91.5 | 0.79 | 480.7 | 1.9 | 6.6 | 2.0 | 76 | 475 |
| IE1-280M-8 | 45 | 60 | 94.1 | 89.4 | 85.1 | 735 | 81.3 | 77.7 | 74.5 | 880 | 92.0 | 0.79 | 584.7 | 1.9 | 6.6 | 2.0 | 76 | 527 |
| IE1-315S-8 | 55 | 75 | 111.2 | 105.6 | 100.6 | 735 | 96.0 | 91.9 | 88.0 | 880 | 92.8 | 0.81 | 714.6 | 1.8 | 6.6 | 2.0 | 82 | 840 |
| IE1-315M-8 | 75 | 100 | 151.3 | 143.7 | 136.9 | 735 | 130.7 | 125.0 | 119.8 | 880 | 93.0 | 0.81 | 974.5 | 1.8 | 6.6 | 2.0 | 82 | 1020 |
| IE1-315L1-8 | 90 | 120 | 177.8 | 168.9 | 160.9 | 740 | 153.6 | 146.9 | 140.8 | 885 | 93.8 | 0.82 | 1169.4 | 1.8 | 6.6 | 2.0 | 82 | 1100 |
| IE1-315L2-8 | 110 | 150 | 216.8 | 206.0 | 196.2 | 740 | 187.2 | 179.1 | 171.6 | 885 | 94.0 | 0.82 | 1429.3 | 1.8 | 6.4 | 2.0 | 82 | 1180 |
| IE1-355M1-8 | 132 | 180 | 261.0 | 248.0 | 236.1 | 740 | 225.4 | 215.6 | 206.6 | 885 | 93.7 | 0.82 | 1703.5 | 1.8 | 6.4 | 2.0 | 90 | 1610 |
| IE1-355M2-8 | 160 | 220 | 314.7 | 299.0 | 284.7 | 740 | 271.8 | 260.0 | 249.1 | 885 | 94.2 | 0.82 | 2064.9 | 1.8 | 6.4 | 2.0 | 90 | 1700 |
| IE1-355L-8 | 200 | 270 | 387.4 | 368.0 | 350.5 | 740 | 334.6 | 320.0 | 306.7 | 885 | 94.5 | 0.83 | 2581.1 | 1.8 | 6.4 | 2.0 | 90 | 1850 |
| Synchronous speed 600r/min | | | | | | | | | | | | | | | | | | |
| IE1-315S-10 | 45 | 60 | 99.6 | 94.6 | 90.1 | 590 | 86.0 | 82.3 | 78.9 | 705 | 91.5 | 0.75 | 728.4 | 1.5 | 6.2 | 2.0 | 82 | 830 |
| IE1-315M-10 | 55 | 75 | 121.1 | 115.1 | 109.6 | 590 | 104.6 | 100.0 | 95.9 | 705 | 92.0 | 0.75 | 890.3 | 1.5 | 6.2 | 2.0 | 82 | 960 |
| IE1-315L1-10 | 75 | 100 | 162.1 | 154.0 | 146.7 | 590 | 140.0 | 133.9 | 128.3 | 705 | 92.5 | 0.76 | 1214.0 | 1.5 | 6.2 | 2.0 | 82 | 1080 |
| IE1-315L2-10 | 90 | 120 | 191.0 | 181.5 | 172.8 | 590 | 165.0 | 157.8 | 151.2 | 705 | 93.0 | 0.77 | 1456.8 | 1.5 | 6.2 | 2.0 | 82 | 1150 |
| IE1-355M1-10 | 110 | 150 | 229.9 | 218.4 | 208.0 | 590 | 198.6 | 189.9 | 182.0 | 705 | 93.2 | 0.78 | 1780.5 | 1.3 | 6.0 | 2.0 | 90 | 1565 |
| IE1-355M2-10 | 132 | 180 | 275.0 | 261.3 | 248.8 | 590 | 237.5 | 227.2 | 217.7 | 705 | 93.5 | 0.78 | 2136.6 | 1.3 | 6.0 | 2.0 | 90 | 1685 |
| IE1-355L-10 | 160 | 220 | 333.3 | 316.6 | 301.6 | 590 | 287.9 | 275.3 | 263.9 | 705 | 93.5 | 0.78 | 2589.8 | 1.3 | 6.0 | 2.0 | 90 | 1830 |



IE2 PERFORMANCE DATA

| Type No. | Rated output (kW) | HP | Rated current | Rated current | Rated current | Rated speed | Rated current | Rated current | Rated current | Rated speed | EFF % | Power factor cos φ | Rated Torque N.m | Start Torque | Start Torque | Max Torque | Noise level LW dB(A) | Weight (Kg) |
|------------------------------|-------------------|-----|---------------|---------------|---------------|-------------|---------------|---------------|---------------|-------------|-------|--------------------|------------------|----------------------|----------------------|---------------------|----------------------|-------------|
| | | | IFL 380V A | IFL 400V A | IFL 420V A | (r/min) | IFL 440V A | IFL 460V A | IFL 480V A | (r/min) | | | | Rated Torque TST/TFL | Rated Torque IST/IFL | Rated Torque TM/TFL | | |
| | | | 380~420V/50Hz | | | | 440~480V/60Hz | | | | | | | | | | | |
| Synchronous speed 3000 r/min | | | | | | | | | | | | | | | | | | |
| IE2-80M1-2 | 0.75 | 1.0 | 1.8 | 1.71 | 1.63 | 2855 | 1.55 | 1.49 | 1.43 | 3425 | 77.4 | 0.82 | 2.51 | 2.2 | 7.0 | 2.3 | 62 | 16 |
| IE2-80M2-2 | 1.1 | 1.5 | 2.5 | 2.38 | 2.26 | 2870 | 2.16 | 2.07 | 1.98 | 3440 | 79.6 | 0.83 | 3.66 | 2.2 | 7.3 | 2.3 | 62 | 17 |
| IE2-90S-2 | 1.5 | 2.0 | 3.3 | 3.14 | 2.99 | 2865 | 2.85 | 2.73 | 2.61 | 3435 | 81.3 | 0.84 | 5 | 2.2 | 7.6 | 2.3 | 67 | 20 |
| IE2-90L-2 | 2.2 | 3.0 | 4.7 | 4.47 | 4.25 | 2870 | 4.06 | 3.88 | 3.72 | 3440 | 83.2 | 0.85 | 7.32 | 2.2 | 7.6 | 2.3 | 67 | 23 |
| IE2-100L-2 | 3 | 4.0 | 6.2 | 5.89 | 5.61 | 2875 | 5.35 | 5.12 | 4.91 | 3450 | 84.6 | 0.87 | 10 | 2.2 | 7.8 | 2.3 | 74 | 34 |
| IE2-112M-2 | 4 | 5.5 | 8.0 | 7.60 | 7.24 | 2910 | 6.91 | 6.61 | 6.33 | 3490 | 85.8 | 0.88 | 13.1 | 2.2 | 8.3 | 2.3 | 77 | 42 |
| IE2-132S1-2 | 5.5 | 7.5 | 10.9 | 10.4 | 9.86 | 2935 | 9.41 | 9.00 | 8.63 | 3520 | 87.0 | 0.88 | 17.9 | 2.0 | 8.3 | 2.3 | 79 | 62 |
| IE2-132S2-2 | 7.5 | 10 | 14.5 | 13.8 | 13.1 | 2930 | 12.5 | 12.0 | 11.5 | 3515 | 88.1 | 0.89 | 24.4 | 2.0 | 7.9 | 2.3 | 79 | 70 |
| IE2-160M1-2 | 11 | 15 | 21 | 20.0 | 19.0 | 2950 | 18.1 | 17.4 | 16.6 | 3540 | 89.4 | 0.89 | 35.6 | 2.0 | 8.1 | 2.3 | 81 | 112 |
| IE2-160M2-2 | 15 | 20 | 28.4 | 27.0 | 25.7 | 2945 | 24.5 | 23.5 | 22.5 | 3530 | 90.3 | 0.89 | 48.6 | 2.0 | 8.1 | 2.3 | 81 | 120 |
| IE2-160L-2 | 18.5 | 25 | 34.7 | 33.0 | 31.4 | 2945 | 30.0 | 28.7 | 27.5 | 3530 | 90.9 | 0.89 | 60 | 2.0 | 8.2 | 2.3 | 81 | 138 |
| IE2-180M-2 | 22 | 30 | 41.1 | 39.1 | 37.2 | 2950 | 35.5 | 34.0 | 32.5 | 3540 | 91.3 | 0.89 | 71.2 | 2.0 | 8.2 | 2.3 | 83 | 180 |
| IE2-200L1-2 | 30 | 40 | 55.7 | 52.9 | 50.4 | 2960 | 48.1 | 46.0 | 44.1 | 3550 | 92.0 | 0.89 | 96.8 | 2.0 | 7.6 | 2.3 | 84 | 240 |
| IE2-200L2-2 | 37 | 50 | 68.3 | 64.9 | 61.8 | 2960 | 59.0 | 56.4 | 54.1 | 3550 | 92.5 | 0.89 | 119 | 2.0 | 7.6 | 2.3 | 84 | 260 |
| IE2-225M-2 | 45 | 60 | 82.7 | 78.6 | 74.8 | 2965 | 71.4 | 68.3 | 65.5 | 3555 | 92.9 | 0.89 | 145 | 2.0 | 7.7 | 2.3 | 86 | 305 |
| IE2-250M-2 | 55 | 75 | 101 | 96.0 | 91.4 | 2970 | 87.2 | 83.4 | 80.0 | 3560 | 93.2 | 0.89 | 177 | 2.0 | 7.1 | 2.3 | 89 | 386 |
| IE2-280S-2 | 75 | 100 | 137 | 130.2 | 124.0 | 2975 | 118.3 | 113.2 | 108.5 | 3570 | 93.8 | 0.89 | 241 | 1.8 | 7.1 | 2.3 | 91 | 515 |
| IE2-280M-2 | 90 | 120 | 163 | 154.9 | 147.5 | 2970 | 140.8 | 134.7 | 129.0 | 3560 | 94.1 | 0.89 | 289 | 1.8 | 7.1 | 2.3 | 91 | 560 |
| IE2-315S-2 | 110 | 150 | 197 | 187.2 | 178.2 | 2975 | 170.1 | 162.7 | 156.0 | 3570 | 94.3 | 0.90 | 353 | 1.8 | 7.1 | 2.3 | 92 | 920 |
| IE2-315M-2 | 132 | 180 | 236 | 224.2 | 213.5 | 2975 | 203.8 | 195.0 | 186.8 | 3570 | 94.6 | 0.90 | 424 | 1.8 | 7.1 | 2.3 | 92 | 1035 |
| IE2-315L1-2 | 160 | 220 | 282 | 267.9 | 255.1 | 2975 | 243.6 | 233.0 | 223.3 | 3570 | 94.8 | 0.91 | 514 | 1.8 | 7.2 | 2.3 | 92 | 1115 |
| IE2-315L2-2 | 200 | 270 | 352 | 334.4 | 318.5 | 2975 | 304.0 | 290.8 | 278.7 | 3570 | 95.0 | 0.91 | 642 | 1.8 | 7.2 | 2.2 | 92 | 1165 |
| IE2-355M-2 | 250 | 340 | 439 | 417.1 | 397.2 | 2980 | 379.1 | 362.7 | 347.5 | 3575 | 95.0 | 0.91 | 801 | 1.6 | 7.2 | 2.2 | 100 | 1616 |
| IE2-355L-2 | 315 | 430 | 554 | 526.3 | 501.2 | 2980 | 478.5 | 457.7 | 438.6 | 3575 | 95.0 | 0.91 | 1009 | 1.6 | 7.2 | 2.2 | 100 | 1806 |

IE2 PERFORMANCE DATA

| Type No. | Rated output (kW) | HP | Rated current | Rated current | Rated current | Rated speed | Rated current | Rated current | Rated current | Rated speed | EFF % | Power factor cos φ | Rated Torque N.m | Start Torque | Start Torque | Max Torque | Noise level LW dB(A) | Weight (Kg) |
|-----------------------------|-------------------|------|---------------|---------------|---------------|-------------|---------------|---------------|---------------|-------------|-------|--------------------|------------------|----------------------|----------------------|---------------------|----------------------|-------------|
| | | | IFL 380V A | IFL 400V A | IFL 420V A | (r/min) | IFL 440V A | IFL 460V A | IFL 480V A | (r/min) | | | | Rated Torque TST/TFL | Rated Torque IST/IFL | Rated Torque TM/TFL | | |
| | | | 380~420V/50Hz | | | | 440~480V/60Hz | | | | | | | | | | | |
| Synchronous speed 1500r/min | | | | | | | | | | | | | | | | | | |
| IE2-80M2-4 | 0.75 | 1.0 | 1.9 | 1.81 | 1.72 | 1425 | 1.64 | 1.57 | 1.50 | 1710 | 79.6 | 0.76 | 5.03 | 2.3 | 6.6 | 2.3 | 56 | 18 |
| IE2-90S-4 | 1.1 | 1.5 | 2.7 | 2.57 | 2.44 | 1420 | 2.33 | 2.23 | 2.14 | 1700 | 81.4 | 0.77 | 7.4 | 2.3 | 6.8 | 2.3 | 59 | 21 |
| IE2-90L-4 | 1.5 | 2.0 | 3.5 | 3.33 | 3.17 | 1420 | 3.02 | 2.89 | 2.77 | 1700 | 82.8 | 0.78 | 10.1 | 2.3 | 7.0 | 2.3 | 59 | 24 |
| IE2-100L1-4 | 2.2 | 3.0 | 5 | 4.75 | 4.52 | 1430 | 4.32 | 4.13 | 3.96 | 1715 | 84.3 | 0.80 | 14.7 | 2.3 | 7.6 | 2.3 | 64 | 34 |
| IE2-100L2-4 | 3 | 4.0 | 6.6 | 6.27 | 5.97 | 1430 | 5.70 | 5.45 | 5.23 | 1715 | 85.5 | 0.81 | 20 | 2.3 | 7.6 | 2.3 | 64 | 38 |
| IE2-112M-4 | 4 | 5.5 | 8.7 | 8.27 | 7.87 | 1450 | 7.51 | 7.19 | 6.89 | 1740 | 86.6 | 0.81 | 26.3 | 2.2 | 7.8 | 2.3 | 65 | 45 |
| IE2-132S-4 | 5.5 | 7.5 | 11.6 | 11.0 | 10.5 | 1465 | 10.0 | 9.58 | 9.18 | 1755 | 87.7 | 0.82 | 35.9 | 2.0 | 7.9 | 2.3 | 71 | 64 |
| IE2-132M-4 | 7.5 | 10.0 | 15.5 | 14.7 | 14.0 | 1465 | 13.4 | 12.8 | 12.3 | 1755 | 88.7 | 0.83 | 48.9 | 2.0 | 7.5 | 2.3 | 71 | 78 |
| IE2-160M-4 | 11 | 15 | 22.4 | 21.3 | 20.3 | 1470 | 19.4 | 18.5 | 17.7 | 1760 | 89.8 | 0.83 | 71.5 | 2.0 | 7.7 | 2.3 | 73 | 120 |
| IE2-160L-4 | 15 | 20 | 29.9 | 28.4 | 27.1 | 1470 | 25.8 | 24.7 | 23.7 | 1760 | 90.6 | 0.84 | 97.4 | 2.0 | 7.8 | 2.3 | 73 | 138 |
| IE2-180M-4 | 18.5 | 25 | 36.3 | 34.5 | 32.8 | 1470 | 31.4 | 30.0 | 28.7 | 1760 | 91.2 | 0.85 | 120 | 2.0 | 7.8 | 2.3 | 76 | 174 |
| IE2-180L-4 | 22 | 30 | 42.9 | 40.8 | 38.8 | 1465 | 37.1 | 35.4 | 34.0 | 1755 | 91.6 | 0.85 | 143 | 2.0 | 7.8 | 2.3 | 76 | 188 |
| IE2-200L-4 | 30 | 40 | 58.1 | 55.2 | 52.6 | 1475 | 50.2 | 48.0 | 46.0 | 1770 | 92.3 | 0.85 | 194 | 2.0 | 7.3 | 2.3 | 76 | 256 |
| IE2-225S-4 | 37 | 50 | 70.5 | 67.0 | 63.8 | 1480 | 60.9 | 58.2 | 55.8 | 1775 | 92.7 | 0.86 | 239 | 2.0 | 7.4 | 2.3 | 78 | 300 |
| IE2-225M-4 | 45 | 60 | 85.4 | 81.1 | 77.3 | 1480 | 73.8 | 70.6 | 67.6 | 1775 | 93.1 | 0.86 | 290 | 2.0 | 7.4 | 2.3 | 78 | 325 |
| IE2-250M-4 | 55 | 75 | 104 | 98.8 | 94.1 | 1485 | 89.8 | 85.9 | 82.3 | 1780 | 93.5 | 0.86 | 354 | 2.0 | 7.4 | 2.3 | 79 | 400 |
| IE2-280S-4 | 75 | 100 | 139 | 132.1 | 125.8 | 1490 | 120.1 | 114.8 | 110.0 | 1785 | 94.0 | 0.87 | 481 | 2.0 | 6.9 | 2.3 | 80 | 543 |
| IE2-280M-4 | 90 | 120 | 165 | 156.8 | 149.3 | 1485 | 142.5 | 136.3 | 130.6 | 1780 | 94.2 | 0.88 | 579 | 2.0 | 6.9 | 2.3 | 80 | 608 |
| IE2-315S-4 | 110 | 150 | 199 | 189.1 | 180.1 | 1485 | 171.9 | 164.4 | 157.5 | 1780 | 94.5 | 0.89 | 707 | 2.0 | 7.0 | 2.2 | 88 | 970 |
| IE2-315M-4 | 132 | 180 | 238 | 226.1 | 215.3 | 1485 | 205.6 | 196.6 | 188.4 | 1780 | 94.7 | 0.89 | 849 | 2.0 | 7.0 | 2.2 | 88 | 1090 |
| IE2-315L1-4 | 160 | 220 | 285 | 270.8 | 257.9 | 1485 | 246.1 | 235.4 | 225.6 | 1780 | 94.9 | 0.90 | 1029 | 2.0 | 7.1 | 2.2 | 88 | 1160 |
| IE2-315L2-4 | 200 | 270 | 355 | 337.3 | 321.2 | 1485 | 306.6 | 293.3 | 281.0 | 1780 | 95.1 | 0.90 | 1286 | 2.0 | 7.1 | 2.2 | 88 | 1230 |
| IE2-355M-4 | 250 | 340 | 444 | 421.8 | 401.7 | 1490 | 383.5 | 366.8 | 351.5 | 1785 | 95.1 | 0.90 | 1602 | 2.0 | 7.1 | 2.2 | 95 | 1640 |
| IE2-355L-4 | 315 | 430 | 559 | 531.1 | 505.8 | 1490 | 482.8 | 461.8 | 442.5 | 1785 | 95.1 | 0.90 | 2019 | 2.0 | 7.1 | 2.2 | 95 | 1810 |

IE2 PERFORMANCE DATA

| Type No. | Rated output (kW) | HP | Rated current | Rated current | Rated current | Rated speed (r/min) | Rated current | Rated current | Rated current | Rated speed (r/min) | EFF % | Power factor cos φ | Rated Torque N.m | Start Torque | Start Torque | Max Torque | Noise level LW dB(A) | Weight (Kg) |
|-----------------------------|-------------------|------|---------------|---------------|---------------|---------------------|---------------|---------------|---------------|---------------------|-------|--------------------|------------------|----------------------|----------------------|------------|----------------------|-------------|
| | | | IFL 380V A | IFL 400V A | IFL 420V A | | IFL 440V A | IFL 460V A | IFL 480V A | | | | | Rated Torque TST/TFL | Rated Torque IST/IFL | | | |
| | | | 380~420V/50Hz | | | | 440~480V/60Hz | | | | | | | | | | | |
| Synchronous speed 1000r/min | | | | | | | | | | | | | | | | | | |
| IE2-90S-6 | 0.75 | 1.0 | 2.1 | 2.00 | 1.90 | 935 | 1.81 | 1.73 | 1.66 | 1120 | 75.9 | 0.71 | 7.66 | 2.0 | 6.0 | 2.1 | 57 | 21 |
| IE2-90L-6 | 1.1 | 1.5 | 3 | 2.85 | 2.71 | 935 | 2.59 | 2.48 | 2.38 | 1120 | 78.1 | 0.72 | 11.2 | 2.0 | 6.0 | 2.1 | 57 | 24 |
| IE2-100L-6 | 1.5 | 2.0 | 4 | 3.80 | 3.62 | 945 | 3.45 | 3.30 | 3.17 | 1130 | 79.8 | 0.72 | 15.2 | 2.0 | 6.5 | 2.1 | 61 | 33 |
| IE2-112M-6 | 2.2 | 3.0 | 5.7 | 5.42 | 5.16 | 965 | 4.92 | 4.71 | 4.51 | 1155 | 81.8 | 0.72 | 21.8 | 2.0 | 6.6 | 2.1 | 65 | 42 |
| IE2-132S-6 | 3 | 4.0 | 7.6 | 7.22 | 6.88 | 975 | 6.56 | 6.28 | 6.02 | 1170 | 83.3 | 0.72 | 29.4 | 1.9 | 6.8 | 2.1 | 69 | 59 |
| IE2-132M1-6 | 4 | 5.5 | 9.7 | 9.22 | 8.78 | 975 | 8.38 | 8.01 | 7.68 | 1170 | 84.6 | 0.74 | 39.2 | 1.9 | 6.8 | 2.1 | 69 | 72 |
| IE2-132M2-6 | 5.5 | 7.5 | 13 | 12.4 | 11.8 | 975 | 11.2 | 10.7 | 10.3 | 1170 | 86.0 | 0.75 | 53.9 | 1.9 | 7.0 | 2.1 | 69 | 78 |
| IE2-160M-6 | 7.5 | 10.0 | 16.8 | 16.0 | 15.2 | 975 | 14.5 | 13.9 | 13.3 | 1170 | 87.2 | 0.78 | 73.5 | 2.0 | 7.0 | 2.1 | 70 | 112 |
| IE2-160L-6 | 11 | 15 | 23.9 | 22.7 | 21.6 | 975 | 20.6 | 19.7 | 18.9 | 1170 | 88.7 | 0.79 | 108 | 2.0 | 7.2 | 2.1 | 70 | 134 |
| IE2-180L-6 | 15 | 20 | 31.8 | 30.2 | 28.8 | 980 | 27.5 | 26.3 | 25.2 | 1175 | 89.7 | 0.80 | 146 | 1.9 | 7.3 | 2.1 | 73 | 178 |
| IE2-200L1-6 | 18.5 | 25 | 38.9 | 37.0 | 35.2 | 980 | 33.6 | 32.1 | 30.8 | 1175 | 90.4 | 0.80 | 180 | 1.9 | 7.3 | 2.1 | 73 | 226 |
| IE2-200L2-6 | 22 | 30 | 45.4 | 43.1 | 41.1 | 980 | 39.2 | 37.5 | 35.9 | 1175 | 90.9 | 0.81 | 214 | 1.9 | 7.4 | 2.1 | 73 | 243 |
| IE2-225M-6 | 30 | 40 | 60.6 | 57.6 | 54.8 | 985 | 52.3 | 50.1 | 48.0 | 1180 | 91.7 | 0.82 | 291 | 1.9 | 6.9 | 2.1 | 74 | 295 |
| IE2-250M-6 | 37 | 50 | 73.5 | 69.8 | 66.5 | 985 | 63.5 | 60.7 | 58.2 | 1180 | 92.2 | 0.83 | 359 | 1.9 | 7.1 | 2.1 | 76 | 368 |
| IE2-280S-6 | 45 | 60 | 86.8 | 82.5 | 78.5 | 990 | 75.0 | 71.7 | 68.7 | 1185 | 92.7 | 0.85 | 434 | 1.9 | 7.3 | 2.0 | 78 | 496 |
| IE2-280M-6 | 55 | 75 | 104 | 98.8 | 94.1 | 990 | 89.8 | 85.9 | 82.3 | 1185 | 93.1 | 0.86 | 531 | 1.9 | 7.3 | 2.0 | 78 | 545 |
| IE2-315S-6 | 75 | 100 | 145 | 137.8 | 131.2 | 990 | 125.2 | 119.8 | 114.8 | 1185 | 93.7 | 0.84 | 723 | 1.9 | 6.6 | 2.0 | 83 | 910 |
| IE2-315M-6 | 90 | 120 | 171 | 162.5 | 154.7 | 990 | 147.7 | 141.3 | 135.4 | 1185 | 94.0 | 0.85 | 868 | 1.9 | 6.7 | 2.0 | 83 | 1030 |
| IE2-315L1-6 | 110 | 150 | 209 | 198.6 | 189.1 | 990 | 180.5 | 172.7 | 165.5 | 1185 | 94.3 | 0.85 | 1061 | 1.9 | 6.7 | 2.0 | 83 | 1120 |
| IE2-315L2-6 | 132 | 180 | 247 | 234.7 | 223.5 | 990 | 213.3 | 204.0 | 195.5 | 1185 | 94.6 | 0.86 | 1273 | 1.9 | 6.8 | 2.0 | 83 | 1185 |
| IE2-355M1-6 | 160 | 220 | 298 | 283.1 | 269.6 | 990 | 257.4 | 246.2 | 235.9 | 1185 | 94.8 | 0.86 | 1543 | 1.9 | 6.8 | 2.0 | 85 | 1530 |
| IE2-355M2-6 | 200 | 270 | 372 | 353.4 | 336.6 | 990 | 321.3 | 307.3 | 294.5 | 1185 | 95.0 | 0.86 | 1929 | 1.9 | 6.8 | 2.0 | 85 | 1690 |
| IE2-355L-6 | 250 | 340 | 465 | 441.8 | 420.7 | 990 | 401.6 | 384.1 | 368.1 | 1185 | 95.0 | 0.86 | 2412 | 1.9 | 6.8 | 2.0 | 85 | 1855 |

IE3 PERFORMANCE DATA

| Type No. | Rated output (kW) | HP | Rated current | Rated current | Rated current | Rated speed (r/min) | Rated current | Rated current | Rated current | Rated speed (r/min) | EFF % | Power factor cos φ | Rated Torque N.m | Start Torque | Start Torque | Max Torque | Noise level LW dB(A) | Weight (Kg) |
|------------------------------|-------------------|-----|---------------|---------------|---------------|---------------------|---------------|---------------|---------------|---------------------|-------|--------------------|------------------|----------------------|----------------------|---------------------|----------------------|-------------|
| | | | IFL 380V A | IFL 400V A | IFL 420V A | | IFL 440V A | IFL 460V A | IFL 480V A | | | | | Rated Torque TST/TFL | Rated Torque IST/IFL | Rated Torque TM/TFL | | |
| | | | 380~420V/50Hz | | | | 440~480V/60Hz | | | | | | | | | | | |
| Synchronous speed 3000 r/min | | | | | | | | | | | | | | | | | | |
| IE3-80M1-2 | 0.75 | 1.0 | 1.7 | 1.62 | 1.54 | 2870 | 1.47 | 1.40 | 1.35 | 3440 | 80.7 | 0.82 | 2.5 | 2.2 | 7.0 | 2.3 | 62 | 18 |
| IE3-80M2-2 | 1.1 | 1.5 | 2.4 | 2.28 | 2.17 | 2875 | 2.07 | 1.98 | 1.90 | 3450 | 82.7 | 0.83 | 3.65 | 2.2 | 7.3 | 2.3 | 62 | 19 |
| IE3-90S-2 | 1.5 | 2.0 | 3.2 | 3.04 | 2.90 | 2880 | 2.76 | 2.64 | 2.53 | 3455 | 84.2 | 0.84 | 4.97 | 2.2 | 7.6 | 2.3 | 67 | 22 |
| IE3-90L-2 | 2.2 | 3.0 | 4.6 | 4.37 | 4.16 | 2880 | 3.97 | 3.80 | 3.64 | 3455 | 85.9 | 0.85 | 7.3 | 2.2 | 7.6 | 2.3 | 67 | 25 |
| IE3-100L-2 | 3 | 4.0 | 6 | 5.70 | 5.43 | 2880 | 5.18 | 4.96 | 4.75 | 3455 | 87.1 | 0.87 | 9.95 | 2.2 | 7.8 | 2.3 | 74 | 37 |
| IE3-112M-2 | 4 | 5.5 | 7.8 | 7.41 | 7.06 | 2915 | 6.74 | 6.44 | 6.18 | 3495 | 88.1 | 0.88 | 13.1 | 2.2 | 8.3 | 2.3 | 77 | 47 |
| IE3-132S1-2 | 5.5 | 7.5 | 10.6 | 10.1 | 9.59 | 2935 | 9.15 | 8.76 | 8.39 | 3520 | 89.2 | 0.88 | 17.9 | 2.0 | 8.3 | 2.3 | 79 | 68 |
| IE3-132S2-2 | 7.5 | 10 | 14.4 | 13.7 | 13.0 | 2930 | 12.4 | 11.9 | 11.4 | 3515 | 90.1 | 0.88 | 24.4 | 2.0 | 7.9 | 2.3 | 79 | 75 |
| IE3-160M1-2 | 11 | 15 | 20.6 | 19.6 | 18.6 | 2950 | 17.8 | 17.0 | 16.3 | 3540 | 91.2 | 0.89 | 35.6 | 2.0 | 8.1 | 2.3 | 81 | 122 |
| IE3-160M2-2 | 15 | 20 | 27.9 | 26.5 | 25.2 | 2945 | 24.1 | 23.1 | 22.1 | 3530 | 91.9 | 0.89 | 48.6 | 2.0 | 8.1 | 2.3 | 81 | 131 |
| IE3-160L-2 | 18.5 | 25 | 34.2 | 32.5 | 30.9 | 2945 | 29.5 | 28.3 | 27.1 | 3530 | 92.4 | 0.89 | 60 | 2.0 | 8.2 | 2.3 | 81 | 150 |
| IE3-180M-2 | 22 | 30 | 40.5 | 38.5 | 36.6 | 2950 | 35.0 | 33.5 | 32.1 | 3540 | 92.7 | 0.89 | 71.2 | 2.0 | 8.2 | 2.3 | 83 | 193 |
| IE3-200L1-2 | 30 | 40 | 54.9 | 52.2 | 49.7 | 2965 | 47.4 | 45.4 | 43.5 | 3555 | 93.3 | 0.89 | 96.6 | 2.0 | 7.6 | 2.3 | 84 | 255 |
| IE3-200L2-2 | 37 | 50 | 67.4 | 64.0 | 61.0 | 2965 | 58.2 | 55.7 | 53.4 | 3555 | 93.7 | 0.89 | 119 | 2.0 | 7.6 | 2.3 | 84 | 275 |
| IE3-225M-2 | 45 | 60 | 80.8 | 76.8 | 73.1 | 2965 | 69.8 | 66.8 | 64.0 | 3555 | 94.0 | 0.90 | 145 | 2.0 | 7.7 | 2.3 | 86 | 326 |
| IE3-250M-2 | 55 | 75 | 98.5 | 93.6 | 89.1 | 2975 | 85.1 | 81.4 | 78.0 | 3570 | 94.3 | 0.90 | 177 | 2.0 | 7.7 | 2.3 | 89 | 417 |
| IE3-280S-2 | 75 | 100 | 134 | 127.3 | 121.2 | 2975 | 115.7 | 110.7 | 106.1 | 3570 | 94.7 | 0.90 | 241 | 1.8 | 7.1 | 2.3 | 91 | 540 |
| IE3-280M-2 | 90 | 120 | 160 | 152.0 | 144.8 | 2975 | 138.2 | 132.2 | 126.7 | 3570 | 95.0 | 0.90 | 289 | 1.8 | 7.1 | 2.3 | 91 | 596 |
| IE3-315S-2 | 110 | 150 | 195 | 185.3 | 176.4 | 2985 | 168.4 | 161.1 | 154.4 | 3580 | 95.2 | 0.90 | 352 | 1.8 | 7.1 | 2.3 | 92 | 965 |
| IE3-315M-2 | 132 | 180 | 234 | 222.3 | 211.7 | 2985 | 202.1 | 193.3 | 185.3 | 3580 | 95.4 | 0.90 | 422 | 1.8 | 7.1 | 2.3 | 92 | 1070 |
| IE3-315L1-2 | 160 | 220 | 279 | 265.1 | 252.4 | 2985 | 241.0 | 230.5 | 220.9 | 3580 | 95.6 | 0.91 | 512 | 1.8 | 7.2 | 2.3 | 92 | 1150 |
| IE3-315L2-2 | 200 | 270 | 349 | 331.6 | 315.8 | 2985 | 301.4 | 288.3 | 276.3 | 3580 | 95.8 | 0.91 | 640 | 1.8 | 7.2 | 2.2 | 92 | 1210 |
| IE3-355M-2 | 250 | 340 | 436 | 414.2 | 394.5 | 2985 | 376.6 | 360.2 | 345.2 | 3580 | 95.8 | 0.91 | 800 | 1.6 | 7.2 | 2.2 | 100 | 1670 |
| IE3-355L-2 | 315 | 430 | 549 | 521.6 | 496.7 | 2985 | 474.1 | 453.5 | 434.6 | 3580 | 95.8 | 0.91 | 1008 | 1.6 | 7.2 | 2.2 | 100 | 1865 |

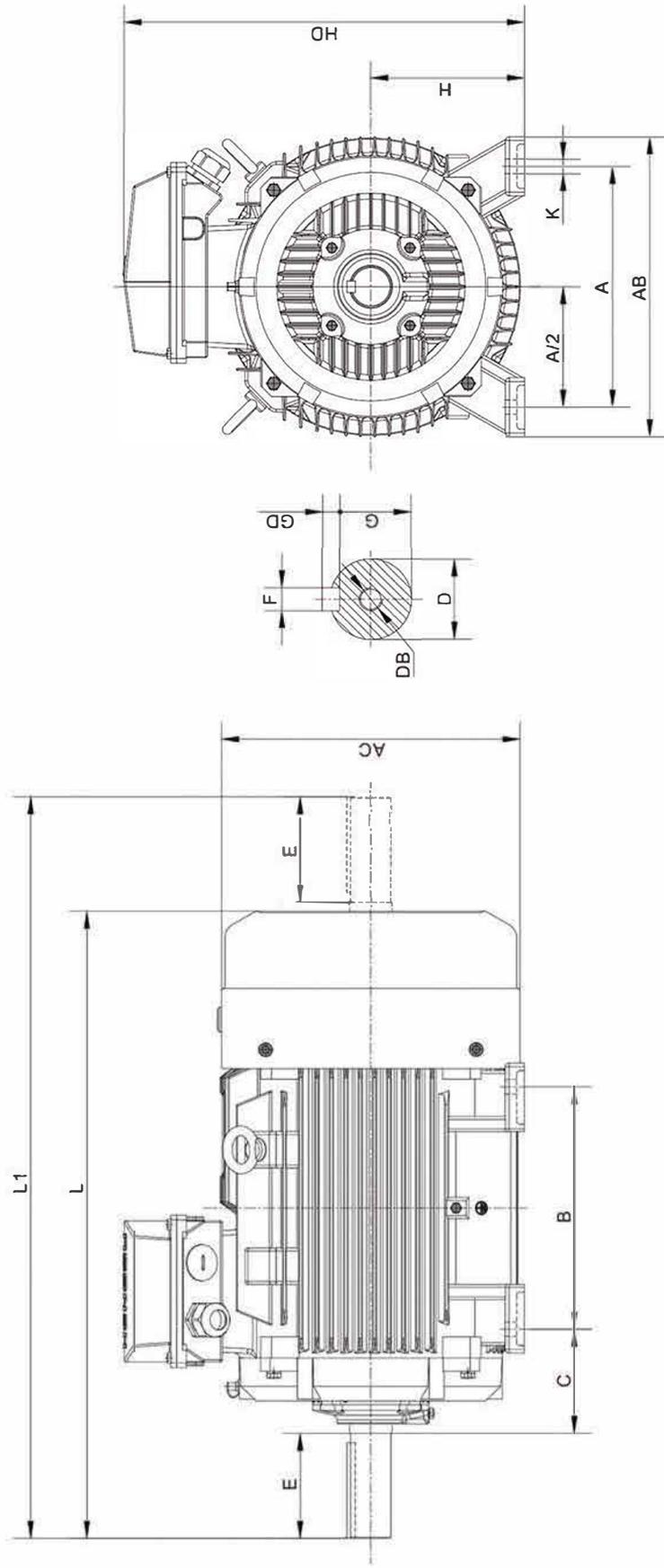
IE3 PERFORMANCE DATA

| Type No. | Rated output (kW) | HP | Rated current | Rated current | Rated current | Rated speed | Rated current | Rated current | Rated current | Rated speed | EFF % | Power factor cos φ | Rated Torque N.m | Start Torque | Start Torque | Max Torque | Noise level LW dB(A) | Weight (Kg) |
|------------------------------|-------------------|------|---------------|---------------|---------------|-------------|---------------|---------------|---------------|-------------|-------|--------------------|------------------|--------------|----------------------|---------------------|----------------------|-------------|
| | | | IFL 380V A | IFL 400V A | IFL 420V A | (r/min) | IFL 440V A | IFL 460V A | IFL 480V A | (r/min) | | | | TST/TFL | Rated Torque IST/IFL | Rated Torque TM/TFL | | |
| | | | 380~420V/50Hz | | | | 440~480V/60Hz | | | | | | | | | | | |
| Synchronous speed 1500 r/min | | | | | | | | | | | | | | | | | | |
| IE3-80M2-4 | 0.75 | 1.0 | 1.80 | 1.71 | 1.63 | 1430 | 1.55 | 1.49 | 1.43 | 1715 | 82.5 | 0.75 | 5.01 | 2.30 | 6.60 | 2.30 | 56 | 20 |
| IE3-90S-4 | 1.1 | 1.5 | 2.60 | 2.47 | 2.35 | 1430 | 2.25 | 2.15 | 2.06 | 1715 | 84.1 | 0.76 | 7.35 | 2.30 | 6.80 | 2.30 | 59 | 23 |
| IE3-90L-4 | 1.5 | 2.0 | 3.50 | 3.33 | 3.17 | 1430 | 3.02 | 2.89 | 2.77 | 1715 | 85.3 | 0.77 | 10 | 2.30 | 7.00 | 2.30 | 59 | 26 |
| IE3-100L1-4 | 2.2 | 3.0 | 4.80 | 4.56 | 4.34 | 1440 | 4.15 | 3.97 | 3.80 | 1725 | 86.7 | 0.81 | 14.6 | 2.30 | 7.60 | 2.30 | 64 | 37 |
| IE3-100L2-4 | 3 | 4.0 | 6.30 | 5.99 | 5.70 | 1440 | 5.44 | 5.20 | 4.99 | 1725 | 87.7 | 0.82 | 19.9 | 2.30 | 7.60 | 2.30 | 64 | 42 |
| IE3-112M-4 | 4 | 5.5 | 8.40 | 7.98 | 7.60 | 1455 | 7.25 | 6.94 | 6.65 | 1745 | 88.6 | 0.82 | 26.3 | 2.20 | 7.80 | 2.30 | 65 | 49 |
| IE3-132S-4 | 5.5 | 7.5 | 11.2 | 10.6 | 10.1 | 1465 | 9.67 | 9.25 | 8.87 | 1755 | 89.6 | 0.83 | 35.9 | 2.00 | 7.90 | 2.30 | 71 | 70 |
| IE3-132M-4 | 7.5 | 10.0 | 15.0 | 14.3 | 13.6 | 1465 | 13.0 | 12.4 | 11.9 | 1755 | 90.4 | 0.84 | 48.9 | 2.00 | 7.50 | 2.30 | 71 | 84 |
| IE3-160M-4 | 11 | 15 | 21.5 | 20.4 | 19.5 | 1470 | 18.6 | 17.8 | 17.0 | 1760 | 91.4 | 0.85 | 71.5 | 2.00 | 7.70 | 2.30 | 73 | 130 |
| IE3-160L-4 | 15 | 20 | 28.8 | 27.4 | 26.1 | 1470 | 24.9 | 23.8 | 22.8 | 1760 | 92.1 | 0.86 | 97.4 | 2.00 | 7.80 | 2.30 | 73 | 148 |
| IE3-180M-4 | 18.5 | 25 | 35.3 | 33.5 | 31.9 | 1470 | 30.5 | 29.2 | 28.0 | 1760 | 92.6 | 0.86 | 120 | 2.00 | 7.80 | 2.30 | 76 | 192 |
| IE3-180L-4 | 22 | 30 | 41.8 | 39.7 | 37.8 | 1470 | 36.1 | 34.5 | 33.1 | 1760 | 93.0 | 0.86 | 143 | 2.00 | 7.80 | 2.30 | 76 | 206 |
| IE3-200L-4 | 30 | 40 | 56.6 | 53.8 | 51.2 | 1475 | 48.9 | 46.8 | 44.8 | 1770 | 93.6 | 0.86 | 194 | 2.00 | 7.30 | 2.30 | 76 | 275 |
| IE3-225S-4 | 37 | 50 | 69.6 | 66.1 | 63.0 | 1480 | 60.1 | 57.5 | 55.1 | 1775 | 93.9 | 0.86 | 239 | 2.00 | 7.40 | 2.30 | 78 | 325 |
| IE3-225M-4 | 45 | 60 | 84.4 | 80.2 | 76.4 | 1480 | 72.9 | 69.7 | 66.8 | 1775 | 94.2 | 0.86 | 290 | 2.00 | 7.40 | 2.30 | 78 | 350 |
| IE3-250M-4 | 55 | 75 | 103.0 | 97.9 | 93.2 | 1485 | 89.0 | 85.1 | 81.5 | 1780 | 94.6 | 0.86 | 354 | 2.00 | 7.40 | 2.30 | 79 | 435 |
| IE3-280S-4 | 75 | 100 | 136.0 | 129.2 | 123.1 | 1490 | 117.5 | 112.4 | 107.7 | 1785 | 95.0 | 0.88 | 481 | 2.00 | 6.70 | 2.30 | 80 | 585 |
| IE3-280M-4 | 90 | 120 | 163.0 | 154.9 | 147.5 | 1490 | 140.8 | 134.7 | 129.0 | 1785 | 95.2 | 0.88 | 577 | 2.00 | 6.90 | 2.30 | 80 | 653 |
| IE3-315S-4 | 110 | 150 | 197.0 | 187.2 | 178.2 | 1490 | 170.1 | 162.7 | 156.0 | 1785 | 95.4 | 0.89 | 705 | 2.00 | 7.00 | 2.20 | 88 | 1010 |
| IE3-315M-4 | 132 | 180 | 236.0 | 224.2 | 213.5 | 1490 | 203.8 | 195.0 | 186.8 | 1785 | 95.6 | 0.89 | 846 | 2.00 | 7.00 | 2.20 | 88 | 1140 |
| IE3-315L1-4 | 160 | 220 | 285.0 | 270.8 | 257.9 | 1490 | 246.1 | 235.4 | 225.6 | 1785 | 95.8 | 0.89 | 1026 | 2.00 | 7.10 | 2.20 | 88 | 1210 |
| IE3-315L2-4 | 200 | 270 | 352.0 | 334.4 | 318.5 | 1490 | 304.0 | 290.8 | 278.7 | 1785 | 96.0 | 0.90 | 1282 | 2.00 | 7.10 | 2.20 | 88 | 1285 |
| IE3-355M-4 | 250 | 340 | 440.0 | 418.0 | 398.1 | 1495 | 380.0 | 363.5 | 348.3 | 1790 | 96.0 | 0.90 | 1597 | 2.00 | 7.10 | 2.20 | 95 | 1680 |
| IE3-355L-4 | 315 | 430 | 554.0 | 526.3 | 501.2 | 1495 | 478.5 | 457.7 | 438.6 | 1790 | 96.0 | 0.90 | 2012 | 2.00 | 7.10 | 2.20 | 95 | 1870 |

IE3 PERFORMANCE DATA

| Type No. | Rated output (kW) | HP | Rated current | Rated current | Rated current | Rated speed (r/min) | Rated current | Rated current | Rated current | Rated speed (r/min) | EFF % | Power factor cos φ | Rated Torque N.m | Start Torque | Start Torque | Max Torque | Noise level LW dB(A) | Weight (Kg) |
|------------------------------|-------------------|------|---------------|---------------|---------------|---------------------|---------------|---------------|---------------|---------------------|-------|--------------------|------------------|----------------------|----------------------|------------|----------------------|-------------|
| | | | IFL 380V A | IFL 400V A | IFL 420V A | | IFL 440V A | IFL 460V A | IFL 480V A | | | | | Rated Torque TST/TFL | Rated Torque IST/IFL | | | |
| | | | 380~420V/50Hz | | | | 440~480V/60Hz | | | | | | | | | | | |
| Synchronous speed 1000 r/min | | | | | | | | | | | | | | | | | | |
| IE3-90S-6 | 0.75 | 1.0 | 2 | 1.90 | 1.81 | 945 | 1.73 | 1.65 | 1.58 | 1130 | 78.9 | 0.71 | 7.58 | 2.00 | 6.00 | 2.10 | 57 | 23 |
| IE3-90L-6 | 1.1 | 1.5 | 2.8 | 2.66 | 2.53 | 950 | 2.42 | 2.31 | 2.22 | 1140 | 81.0 | 0.73 | 11.1 | 2.00 | 6.00 | 2.10 | 57 | 26 |
| IE3-100L-6 | 1.5 | 2.0 | 3.8 | 3.61 | 3.44 | 950 | 3.28 | 3.14 | 3.01 | 1140 | 82.5 | 0.73 | 15.1 | 2.00 | 6.50 | 2.10 | 61 | 36 |
| IE3-112M-6 | 2.2 | 3.0 | 5.4 | 5.13 | 4.89 | 965 | 4.66 | 4.46 | 4.28 | 1155 | 84.3 | 0.74 | 21.8 | 2.00 | 6.60 | 2.10 | 65 | 46 |
| IE3-132S-6 | 3 | 4.0 | 7.2 | 6.84 | 6.51 | 975 | 6.22 | 5.95 | 5.70 | 1170 | 85.6 | 0.74 | 29.4 | 1.90 | 6.80 | 2.10 | 69 | 63 |
| IE3-132M1-6 | 4 | 5.5 | 9.5 | 9.03 | 8.60 | 975 | 8.20 | 7.85 | 7.52 | 1170 | 86.8 | 0.74 | 39.2 | 1.90 | 6.80 | 2.10 | 69 | 76 |
| IE3-132M2-6 | 5.5 | 7.5 | 12.7 | 12.1 | 11.5 | 975 | 11.0 | 10.5 | 10.1 | 1170 | 88.0 | 0.75 | 53.9 | 1.90 | 7.00 | 2.10 | 69 | 83 |
| IE3-160M-6 | 7.5 | 10.0 | 16.2 | 15.4 | 14.7 | 980 | 14.0 | 13.4 | 12.8 | 1175 | 89.1 | 0.79 | 73.1 | 1.90 | 7.00 | 2.10 | 70 | 120 |
| IE3-160L-6 | 11 | 15 | 23.1 | 22.0 | 20.9 | 980 | 20.0 | 19.1 | 18.3 | 1175 | 90.3 | 0.80 | 107 | 1.90 | 7.20 | 2.10 | 70 | 145 |
| IE3-180L-6 | 15 | 20 | 30.9 | 29.4 | 28.0 | 980 | 26.7 | 25.5 | 24.5 | 1175 | 91.2 | 0.81 | 146 | 1.90 | 7.30 | 2.10 | 73 | 188 |
| IE3-200L1-6 | 18.5 | 25 | 37.8 | 35.9 | 34.2 | 985 | 32.7 | 31.2 | 29.9 | 1180 | 91.7 | 0.81 | 197 | 1.90 | 7.30 | 2.10 | 73 | 242 |
| IE3-200L2-6 | 22 | 30 | 44.8 | 42.6 | 40.5 | 985 | 38.7 | 37.0 | 35.5 | 1180 | 92.2 | 0.81 | 213 | 1.90 | 7.40 | 2.10 | 73 | 262 |
| IE3-225M-6 | 30 | 40 | 59.1 | 56.2 | 53.5 | 985 | 51.0 | 48.8 | 46.8 | 1180 | 92.9 | 0.83 | 291 | 1.90 | 6.90 | 2.10 | 74 | 320 |
| IE3-250M-6 | 37 | 50 | 71.7 | 68.1 | 64.9 | 985 | 61.9 | 59.2 | 56.8 | 1180 | 93.3 | 0.84 | 359 | 1.90 | 7.10 | 2.10 | 76 | 398 |
| IE3-280S-6 | 45 | 60 | 85.8 | 81.5 | 77.6 | 990 | 74.1 | 70.9 | 67.9 | 1185 | 93.7 | 0.85 | 434 | 1.90 | 7.30 | 2.00 | 78 | 532 |
| IE3-280M-6 | 55 | 75 | 103 | 97.9 | 93.2 | 990 | 89.0 | 85.1 | 81.5 | 1185 | 94.1 | 0.86 | 531 | 1.90 | 7.30 | 2.00 | 78 | 583 |
| IE3-315S-6 | 75 | 100 | 143 | 135.9 | 129.4 | 990 | 123.5 | 118.1 | 113.2 | 1185 | 94.6 | 0.84 | 723 | 1.90 | 6.60 | 2.00 | 83 | 965 |
| IE3-315M-6 | 90 | 120 | 170 | 161.5 | 153.8 | 990 | 146.8 | 140.4 | 134.6 | 1185 | 94.9 | 0.85 | 868 | 1.90 | 6.70 | 2.00 | 83 | 1085 |
| IE3-315L1-6 | 110 | 150 | 207 | 196.7 | 187.3 | 990 | 178.8 | 171.0 | 163.9 | 1185 | 95.1 | 0.85 | 1061 | 1.90 | 6.70 | 2.00 | 83 | 1175 |
| IE3-315L2-6 | 132 | 180 | 244 | 231.8 | 220.8 | 990 | 210.7 | 201.6 | 193.2 | 1185 | 95.4 | 0.86 | 1273 | 1.90 | 6.80 | 2.00 | 83 | 1230 |
| IE3-355M1-6 | 160 | 220 | 296 | 281.2 | 267.8 | 995 | 255.6 | 244.5 | 234.3 | 1190 | 95.6 | 0.86 | 1536 | 1.90 | 6.80 | 2.00 | 85 | 1575 |
| IE3-355M2-6 | 200 | 270 | 365 | 346.8 | 330.2 | 995 | 315.2 | 301.5 | 289.0 | 1190 | 95.8 | 0.87 | 1920 | 1.90 | 6.80 | 2.00 | 85 | 1760 |
| IE3-355L-6 | 250 | 340 | 456 | 433.2 | 412.6 | 995 | 393.8 | 376.7 | 361.0 | 1190 | 95.8 | 0.87 | 2399 | 1.90 | 6.80 | 2.00 | 85 | 1920 |

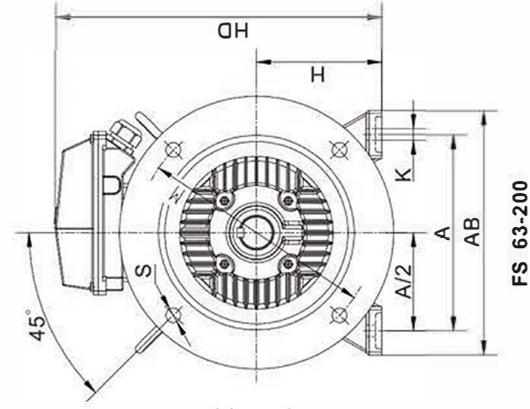
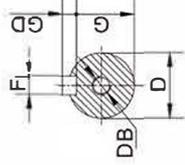
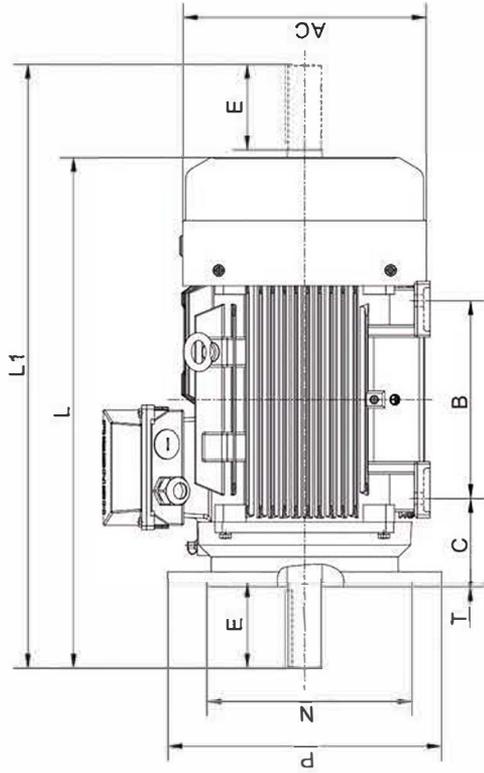
DIMENSIONS MOUNT B3



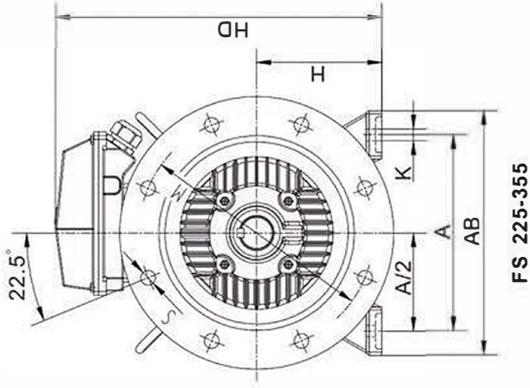
FS 63-355
NOTES: FS 63-90 motor without eyebolts

| Frame size | Poles | | Fixing Measurement | | | | | | | | | | | | | | Figure size | | | | |
|------------|-------------|-----|--------------------|-----|-----|----|------------------|-----|-------------|------|-------------|-----|-------------|-------|-----|----|-------------|-----|-----|------|------|
| | | | A | A/2 | B | C | D | E | F | G | H | K | DB | GD | AB | AC | HD | L | L1 | | |
| 63M | 2, 4 | 100 | 50 | 80 | 40 | 11 | +0.008 -0.003 | 23 | 6 | 0 | 8.5 | 63 | 7 | φ0.5Ⓜ | M4 | 4 | 135 | 130 | 180 | 230 | 255 |
| 71M | 2, 4, 6 | 112 | 56 | 90 | 45 | 14 | | 30 | -0.030 | 11 | 0 -0.010 | 71 | | | M5 | 5 | 150 | 145 | 195 | 255 | 290 |
| 80M | | 125 | 62.5 | 100 | 50 | 19 | ±1.5 | 40 | | 15.5 | 80 | 10 | +0.360 0 | | M6 | 6 | 165 | 175 | 220 | 295 | 340 |
| 90S | | 140 | 70 | 100 | 56 | 24 | | 50 | 8 | 20 | 99 | | | | M8 | 7 | 180 | 195 | 250 | 320 | 375 |
| 90L | | 160 | 80 | 140 | 63 | 28 | ±2.0 | 60 | 0 -0.036 | 24 | 100 | 100 | | φ1.0Ⓜ | | | 205 | 215 | 270 | 345 | 400 |
| 100L | | 190 | 95 | 140 | 70 | 38 | | 80 | 10 | 33 | 112 | 12 | | | M10 | | 230 | 240 | 300 | 400 | 465 |
| 112M | | 216 | 108 | 178 | 89 | 42 | | 110 | 12 | 37 | 132 | 15 | +0.430 0 | | M12 | 8 | 270 | 275 | 345 | 470 | 555 |
| 132S | 2, 4, 6, 8 | 254 | 127 | 210 | 108 | 48 | ±3.0 | 140 | 18 | 53 | 160 | 19 | | | | | 320 | 330 | 420 | 615 | 730 |
| 132M | | 279 | 139.5 | 241 | 121 | 55 | | 110 | 16 | 49 | 180 | | | | M16 | | 355 | 380 | 455 | 510 | 595 |
| 160M | | 318 | 159 | 305 | 133 | 60 | | 140 | 18 | 53 | 200 | | | | | | 395 | 420 | 505 | 770 | 885 |
| 160L | | 356 | 178 | 286 | 149 | 65 | | 110 | 16 | 49 | 225 | | | | | | 435 | 470 | 560 | 815 | 960 |
| 180M | 4, 8 | | | 311 | 168 | 60 | | 140 | 18 | 53 | 250 | | | | | | 490 | 510 | 615 | 910 | 1055 |
| 180L | 2 | 406 | 203 | 349 | 168 | 65 | | 140 | 18 | 58 | 280 | 24 | | | M16 | 11 | 550 | 580 | 680 | 985 | 1130 |
| 200L | 4, 6, 8 | 457 | 228.5 | 368 | 190 | 75 | | 170 | 20 | 67.5 | 315 | | | | M20 | 12 | 635 | 645 | 800 | 1160 | 1315 |
| 225S | 2 | | | 419 | 190 | 65 | ±4.0 | 140 | 18 | 58 | 355 | | | | | | 730 | 710 | 880 | 1190 | 1375 |
| 225M | 4, 6, 8 | 508 | 254 | 457 | 216 | 75 | | 170 | 22 | 71 | 315 | | | | M16 | 11 | 635 | 645 | 800 | 1270 | 1425 |
| 250M | 2 | | | 406 | 190 | 80 | | 140 | 18 | 58 | 355 | | | | M20 | 12 | 635 | 645 | 800 | 1300 | 1485 |
| 280S | 4, 6, 8 | | | 419 | 190 | 80 | | 170 | 22 | 71 | 315 | | | | M16 | 11 | 635 | 645 | 800 | 1270 | 1425 |
| 280M | 2 | 508 | 254 | 457 | 216 | 80 | | 140 | 18 | 58 | 355 | | | | M20 | 14 | 635 | 645 | 800 | 1300 | 1485 |
| 315S | 4, 6, 8, 10 | | | 406 | 190 | 80 | | 170 | 22 | 71 | 315 | | | | M16 | 11 | 635 | 645 | 800 | 1270 | 1425 |
| 315M | 2 | | | 406 | 190 | 80 | | 140 | 18 | 58 | 355 | | | | M20 | 14 | 635 | 645 | 800 | 1300 | 1485 |
| 315L | 4, 6, 8, 10 | | | 406 | 190 | 80 | | 170 | 22 | 71 | 315 | | | | M16 | 11 | 635 | 645 | 800 | 1270 | 1425 |
| 355M | 2 | | | 406 | 190 | 80 | | 140 | 18 | 58 | 355 | | | | M20 | 14 | 635 | 645 | 800 | 1300 | 1485 |
| 355L | 4, 6, 8, 10 | 610 | 305 | 560 | 254 | 95 | | 140 | 20 | 67.5 | 315 | | | | M24 | 14 | 730 | 710 | 880 | 1500 | 1650 |
| | 2 | | | 560 | 254 | 75 | | 170 | 25 | 86 | 355 | | | | M20 | 12 | 730 | 710 | 880 | 1500 | 1650 |
| | 4, 6, 8, 10 | | | 560 | 254 | 95 | | 140 | 20 | 67.5 | 315 | | | | M24 | 14 | 730 | 710 | 880 | 1500 | 1650 |
| | 2 | | | 630 | 254 | 95 | | 170 | 25 | 86 | 355 | | | | M24 | 14 | 730 | 710 | 880 | 1500 | 1650 |
| | 4, 6, 8, 10 | | | 630 | 254 | 95 | | 170 | 25 | 86 | 355 | | | | M24 | 14 | 730 | 710 | 880 | 1500 | 1650 |

DIMENSIONS MOUNT B35



FS 63-200



FS 225-355

FS 63-355
 NOTES: FS 63-90 motor without eyebolts



Polígono Industrial A Reigosa Parcela B-33

36828 Ponte Caldelas

Pontevedra - España

Telf. (+34) 986 872 010

E-mail: egasen@egasen.com

Web: www.egasen.com