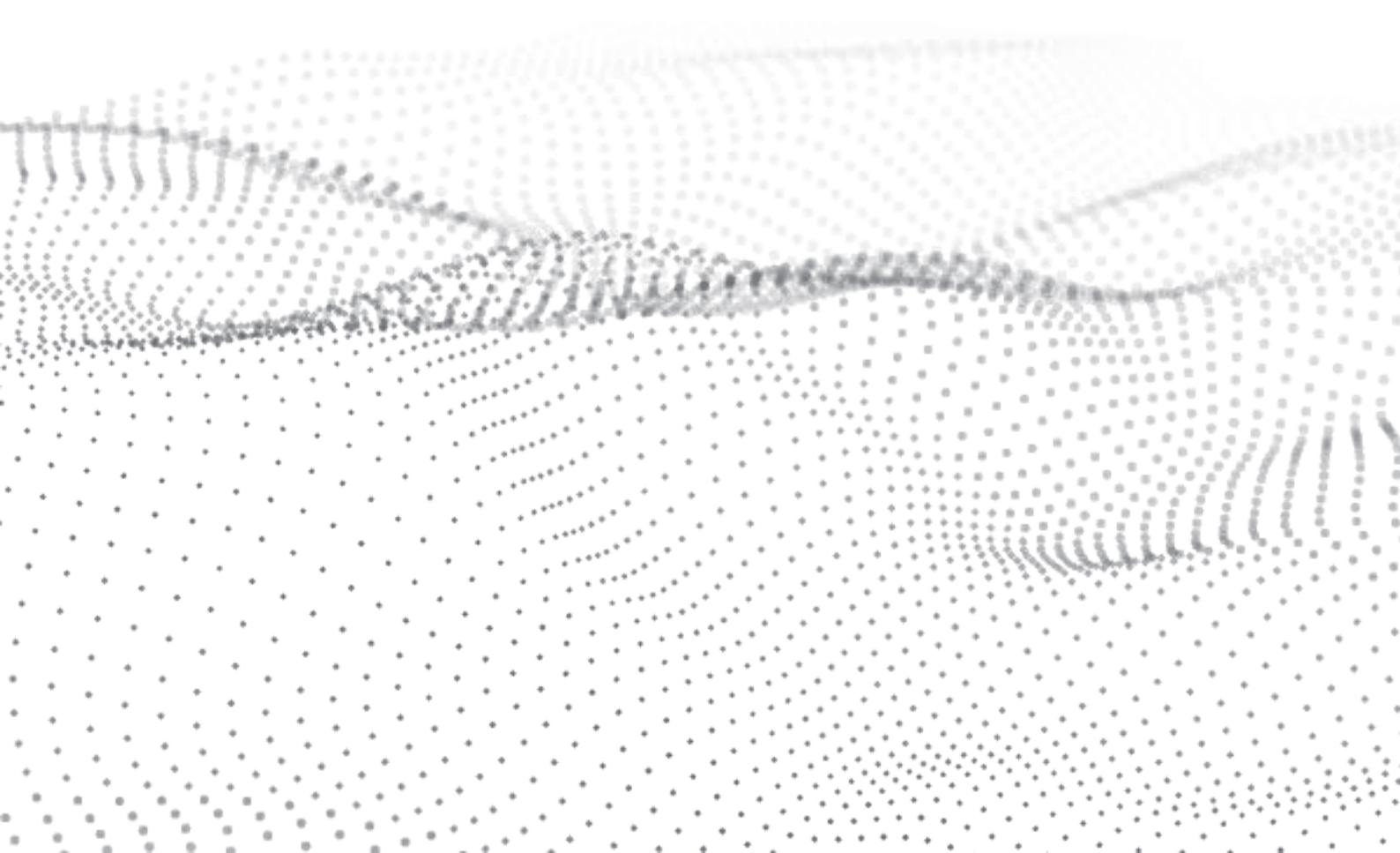
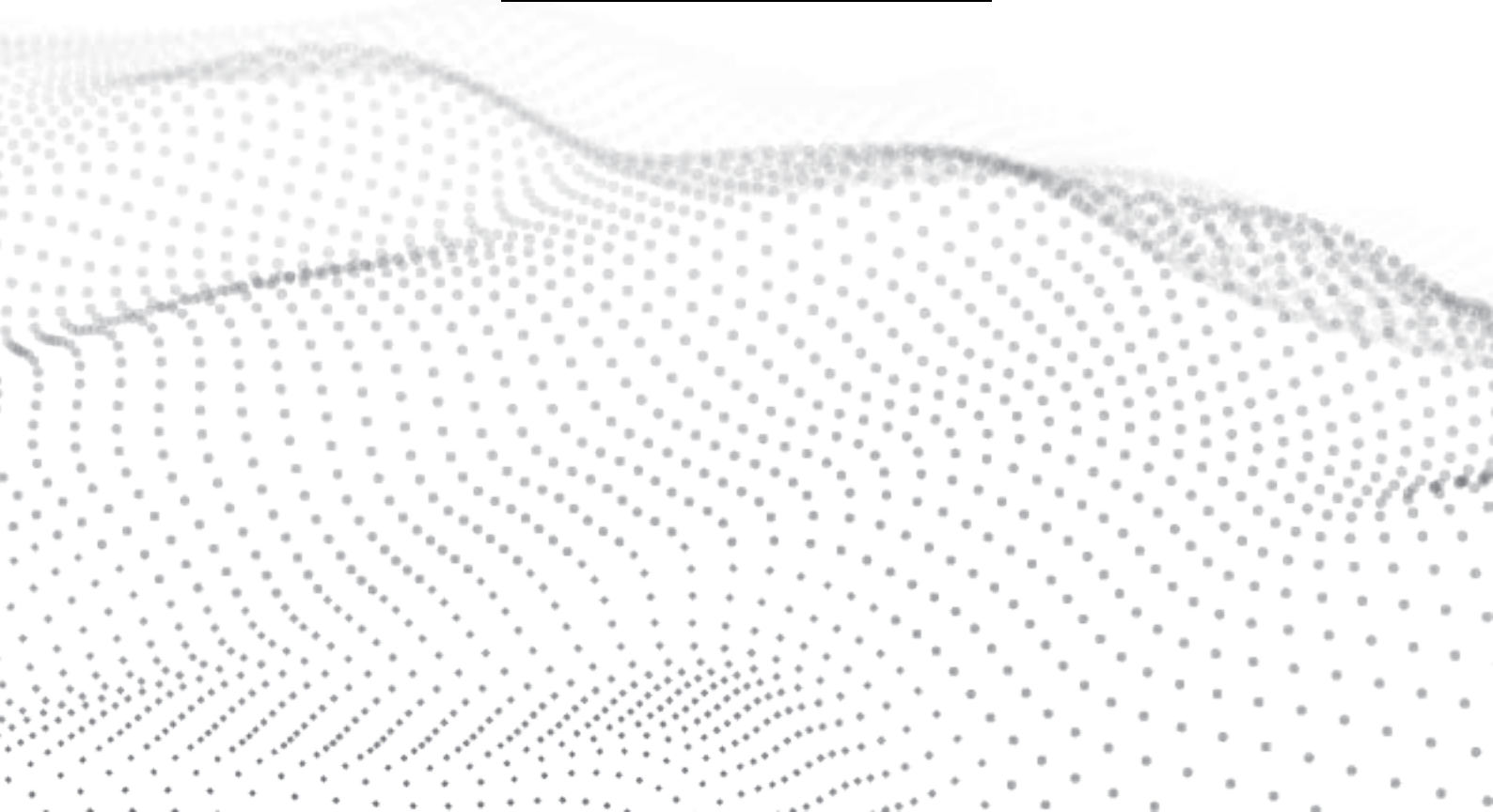


THREE PHASE & SINGLE PHASE
**INDUSTRIAL
MOTORS**





CONTENT

| | |
|-------------------|---|
| Table of Contents | 4 |
| Production Site | 6 |

TECHNICAL DOCUMENTATION

| | |
|----------------------------------|----|
| Certifications and Declarations | 7 |
| International Standards | 8 |
| Insulation Classification | 9 |
| Degree of Protection | 9 |
| Vibration/Balancing | 10 |
| Environmental Conditions | 10 |
| Electrical Connections | 11 |
| Voltage & Frequency | 11 |
| Tolerances | 12 |
| Mounting Arrangements | 13 |
| Bearings | 13 |
| Lubrication | 14 |
| Painting | 14 |
| Feet | 14 |
| Terminal box | 14 |
| Drain/Condensation Holes | 14 |
| Motor Identification Symbols | 15 |
| Permissible Radial Loads | 16 |
| Permissible Axial Loads | 17 |
| Duty-Type | 18 |
| Induction Motors Fed by Inverter | 19 |
| Efficiency | 20 |



THREE PHASE ALUMINIUM MOTORS

| | |
|---|----|
| Electrical Characteristics IE4 | 24 |
| Dimensions IE4 | 25 |
| Electrical Characteristics IE3 | 30 |
| Dimensions IE3 | 32 |
| Electrical Characteristics IE3 N Series | 40 |
| Dimensions IE3 N Series | 41 |
| Electrical Characteristics IE2 | 46 |
| Dimensions IE2 | 49 |

THREE PHASE CAST IRON MOTORS

| | |
|--------------------------------|----|
| Electrical Characteristics IE3 | 60 |
| Dimensions IE3 | 61 |



SMOKE EXTRACTION MOTORS

| | |
|--------------------------------|----|
| Electrical Characteristics IE3 | 68 |
| Dimensions IE3 | 69 |
| Electrical Characteristics IE2 | 70 |
| Dimensions IE2 | 73 |
| Dimensions F300 Pad Mount | 75 |



76

BRAKE MOTORS

| | |
|----------------------------|----|
| Technical Documentation | 78 |
| Electrical Characteristics | 79 |
| Dimensions | 80 |
| Brake Kit | 84 |
| Brake Kit Nomenclature | 85 |
| Brake Kit Dimensions | 88 |



98

SINGLE PHASE MOTORS

| | |
|----------------------------|-----|
| Technical Documentation | 100 |
| Electrical Characteristics | 101 |
| Dimensions | 102 |
| Electrical Characteristics | 103 |
| Dimensions | 104 |



90

INVERTER ENTEGRAED MOTORS

| | |
|-------------------------|----|
| Technical Documentation | 92 |
| Dimensions Q3D | 93 |

106

SPECIAL MOTORS

MOTOR PARTS LIST

110



WAT Motor Sanayi ve Ticaret A.Ş. performs manufacturing operations at its factory in Çerkezköy, Tekirdağ. WAT Motor Sanayi ve Ticaret A.Ş. manufactures various kinds of three phase and single phase motors with up to date technology in a closed area of 20.000m².

With a team of engineers, expert on electrical motors, the plant provides the users with necessary technical consultancy services, and offers a product range including three-phase asynchronous motors in 20.000 different versions and single-phase asynchronous motors in 500 different versions.

With the purpose of launching products beyond customer expectations, new technologies are closely followed and adapted in the plant. To convey product design into the production lines more quickly computer assisted production technology and concurrent engineering methods are being used.

WAT Motor Sanayi ve Ticaret A.Ş., exporting more than half of its production and whose products are preferred abroad, expand its customer portfolio via constant and competitive quality policies. Continuous follow-up customer demands and complaints is considered main instrument for product development and customer satisfaction. Thanks to the advantage of long term relationships with customers-producers and dealers, the plant increases competitive power for both itself and the customers.

INTERNATIONAL STANDARDS

Electric motors are manufactured according to the international standards listed below:

| | |
|----------------|---|
| IEC 60034-1 | Rating and performance |
| IEC 60034-2-1 | Methods for determining losses and efficiency |
| IEC 60034-5 | Classification of degrees of protection |
| IEC 60034-6 | Methods of cooling |
| IEC 60034-7 | Symbols of construction and mounting arrangements |
| IEC 60034-8 | Terminal markings and direction of rotation |
| IEC 60034-9 | Noise limits |
| IEC 60034-11 | Built-in thermal protection |
| IEC 60034-14 | Vibration limits |
| IEC 60034-18-1 | Functional evaluation of insulation system |
| IEC 60034-30 | Efficiency classes (IE-code) |
| IEC 60038 | Standard voltages |
| IEC 60072 | Dimensions and output series for rotating electrical machines |
| EN 50347 | Dimensions and output for electrical machines |

| | |
|--------------|---------------------------------|
| EN 55014-1 | } Electromagnetic compatibility |
| EN 61000-3-2 | |
| EN 61000-3-3 | |

| | | |
|----------------|--------------|---------------|
| Turkey | Germany | Great Britain |
| TSE EN 60034-1 | DIN VDE 0530 | BS EN 60034 |
| | DIN EN 60034 | |



Three phase and single phase motor series are complying with UL Efficiency and are available in our standard motor range. Those motors are marked with our certification number E235514 upon request.



Safety certification is the process of assessing the compliance of products to recognized safety requirements. Our three phase and single phase motor series are complying with UL Safety. Those motors are marked with our certification number E235514 upon request.



Three phase and single phase motor series are complying with CC Certification and are available in our standard motor range. Those motors are marked with our certification number CC329B upon request.

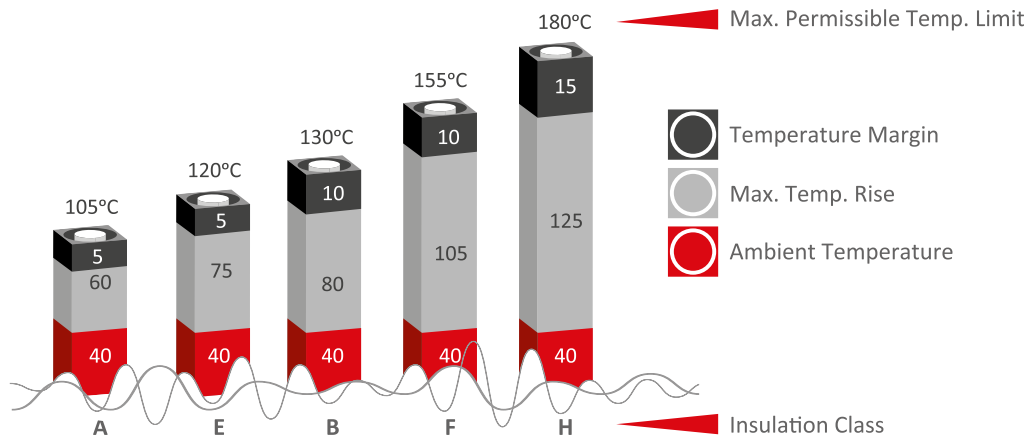


INSULATION CLASSIFICATION

Our standard motors have insulation class F while the temperature rise is for Class B ensuring longer service life.

Upon the customer's request, H class insulation motors are manufactured.

Under specified measuring conditions in accordance with IEC 60034-1 standard, insulation class F for an electric motor means that at ambient temperature of 40°C the temperature rise of its windings may be max. 105°C with the additional temperature margin of 10°C.



DEGREE OF PROTECTION

According to IEC 60034-5 standard, electric motors are provided with IP code which determines the degree of protection ensured by the housing against access to dangerous parts, introducing foreign matter and/or water.

Our motors comply with IP55 protection class as standard.

Please ask for other protection classes.

| 5 | | 5 | |
|----|---|---|---|
| IP | The first characteristic numeral: Protection from introduction of solid foreign matter | The second characteristic numeral: Protection against penetration of water and its harmful effects | |
| 0 | Non-protected machine | Non-protected machine | 0 |
| 1 | Machine protected against solid objects greater than 50 mm | Machine protected against dripping water | 1 |
| 2 | Machine protected against solid objects greater than 12 mm | Machine protected against dripping water when tilted up to 15° | 2 |
| 3 | Machine protected against solid objects greater than 2.5 mm | Machine protected against spraying water | 3 |
| 4 | Machine protected against solid objects greater than 1 mm | Machine protected against splashing water | 4 |
| 5 | Dust-protected machine | Machine protected against water jets | 5 |
| 6 | Dust-tight machines | Machine protected against heavy seas | 6 |

VIBRATION/BALANCING

All rotors are balanced dynamically with half key and this is indicated on the rating plate with letter H.

In accordance to IEC 60034-14, vibration level A is guaranteed for the standard motors. On customer demand, motors with reduced vibration level may also be produced.

Vibration levels with respect to frame size

| Vibration Grade | Shaft Height [mm] | 56 ≤ H ≤ 132 | | 132 < H ≤ 280 | | H > 280 | |
|-----------------|-------------------|-----------------|----------------------------------|-----------------|----------------------------------|-----------------|----------------------------------|
| | Mounting | Velocity [mm/s] | Acceleration [m/s ²] | Velocity [mm/s] | Acceleration [m/s ²] | Velocity [mm/s] | Acceleration [m/s ²] |
| A | Free suspension | 1.6 | 2.5 | 2.2 | 3.5 | 2.8 | 4.4 |
| B | Free suspension | 0.7 | 1.1 | 1.1 | 1.7 | 1.8 | 2.8 |

ENVIRONMENTAL CONDITIONS

Motors are designed to operate at altitudes up to 1000 m and ambient temperature up to 40°C according to IEC 60034-1. Rated output will change at the % ratings given below for different altitudes and ambient temperatures.

| ALTITUDE | | up to 1000 m | 1500 m | 2000 m | 2500 m | 3000 m | 3500 m | 4000 m |
|------------------|---|--------------|--------|--------|--------|--------|--------|--------|
| Insulation class | B | 100 | 97 | 94 | 90 | 86 | 82 | 77 |
| | F | 100 | 98 | 95 | 91 | 87 | 83 | 78 |

| AMBIENT TEMPERATURE | | 30°C | 35°C | 40°C | 45°C | 50°C | 55°C | 60°C |
|---------------------|---|------|------|------|------|------|------|------|
| Insulation class | B | 106 | 106 | 100 | 97 | 92 | 86 | 60 |
| | F | 105 | 102 | 100 | 97 | 93 | 87 | 82 |

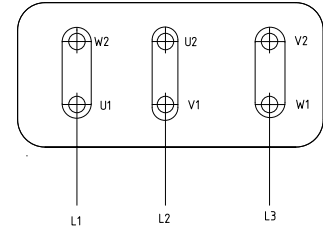
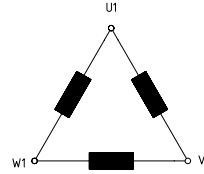
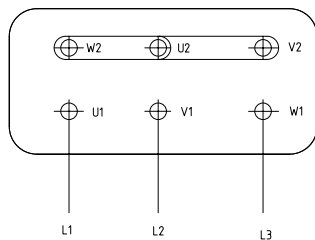
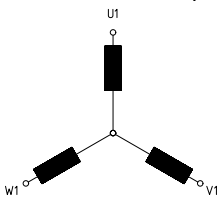
ELECTRICAL CONNECTIONS

Terminal plate has 6 connection terminals marked in accordance with IEC 60034-8.

| Motor Type | Frame Size | 63-80 | 90-100 | 112 | 132-160 | 180 | 200-225 | 250-280 | 315 | 355 |
|------------|-------------------|-------|--------|-----|---------|-----|---------|------------|-----|-----|
| QE | Cable Entry | M20 | M25 | M25 | M32 | M40 | M50 | M50/M63[*] | M63 | M63 |
| | Number of Entries | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 4 |
| QH | Cable Entry | M20 | M25 | M25 | M32 | M40 | M50 | M50 | M63 | - |
| | Number of Entries | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | - |
| QHS | Cable Entry | - | M20 | M25 | M25 | M32 | - | - | - | - |
| | Number of Entries | - | 1 | 2 | 2 | 2 | - | - | - | - |
| QN | Cable Entry | M20 | M25 | - | - | - | - | - | - | - |
| | Number of Entries | 1 | 2 | - | - | - | - | - | - | - |

*Optional

Standard three-phase motors can be connected with star or delta method.



Star connection is achieved by wiring W2, U2, V2 to each other; and U1, V1, W1 leads to voltage supply

Delta connection is achieved by wiring the end of a phase to the head of the other.

STAR-DELTA (Y/ Δ) START-UP

Most low voltage motors are delta wired to operate in 400V and star wired to operate at 690V. This flexibility can also be used to operate the motor under lower voltages. Apart from the fact that startup current in star-delta starting drops to one third of direct starting, startup moment also decreases by around 25%. The motor is started in star connection and accelerated as much as possible, then it is transferred to delta connection. This method can only be used in asynchronous motors which are delta-connected to supply voltage.

VOLTAGE & FREQUENCY

Our motors are normally design for 400V, 50Hz. Other voltages and 60 Hz frequency are optional. Our motors wound for 50Hz can be operated on 60Hz for the same output power. The ratios given below indicate changes in the given parameters.

| | | 60 Hz Application Coefficients of 50 Hz Motor | | | | | | |
|---------------|---------------|---|-------------|--------------|---------------|-----------------|------------------|------------------|
| 50 Hz Voltage | 60 Hz Voltage | Rated Speed | Rated Power | Rated Torque | Rated Current | Starting Torque | Breakdown Torque | Starting Current |
| 230 V | 230 V | 1.2 | 1 | 0.83 | 1 | 0.83 | 0.83 | 0.83 |
| 230 V | 265 V | 1.2 | 1.15 | 0.96 | 1 | 0.96 | 0.96 | 0.96 |
| 400 V | 400 V | 1.2 | 1 | 0.83 | 1 | 0.70 | 0.83 | 0.83 |
| 400 V | 460 V | 1.2 | 1.15 | 0.96 | 1 | 0.95 | 0.98 | 0.97 |

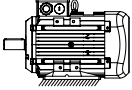
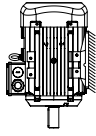
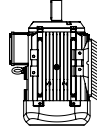
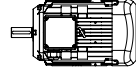
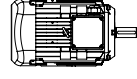
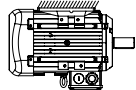
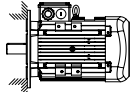
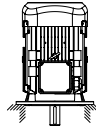
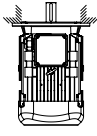
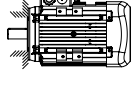
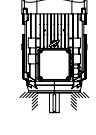
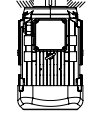
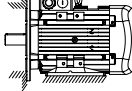
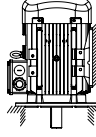
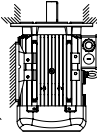
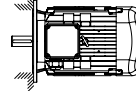
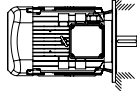
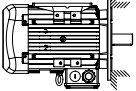
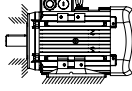
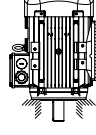
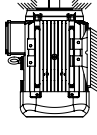


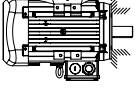
TOLERANCES

According to IEC 60034-1, catalogue values are permitted to deviate from the real values as follows:

| | |
|---|---|
| Speed [n] | $\Delta n = \pm 20\% [n_s - n_N] . P_N > 1kW$ $\Delta n = \pm 30\% [n_s - n_N] . P_N \leq 1kW$ |
| Efficiency % [n] | $\Delta \eta = -15\% [100 - \eta_N] . P_N \leq 150kW$ $\Delta \eta = -10\% [100 - \eta_N] . P_N > 150kW$ |
| Power Factor [cos Q] | $\Delta \cos Q = -1/6 [1 - \cos Q]$ |
| Locked Rotor Current [I_L / I_N] | $\Delta [I_L / I_N] = +20\% [I_L / I_N]$ |
| Locked Rotor Torque [M_L / M_N] | min [M_L / M_N] = $-15\% [M_L / M_N]$ max [M_L / M_N] = $+25\% [M_L / M_N]$ |
| Breakdown Torque [M_k / M_N] | $\Delta [M_k / M_N] = -10\% [M_k / M_N]$ |
| Pull-up Torque [M_p / M_N] | $\Delta [M_p / M_N] = -15\% [M_p / M_N]$ |
| Moment of Inertia [J] [kgm ²] | $\Delta J = \pm 10\%$ |
| Sound Pressure Level [LPA] [dB] | $\Delta LPA = +3dB[A]$ |

| Frame | Housing | Fan | Fan Cover | B3-NDE Endshield | B5 Flange | B14a/B14b Flange | | |
|-------|-------------------------|---------|-----------|------------------|-----------|-------------------------|-------------------------|-----------|
| 63 | Aluminium | Plastic | Steel | Aluminium | Aluminium | Aluminium | | |
| 71 | | | | Aluminium | Aluminium | Aluminium | | |
| 80 | Aluminium/ Cast Iron | | | Plastic | Steel | Aluminium/ Cast Iron | Aluminium/ Cast Iron | |
| 90 | | | | | | | | |
| 100 | | | | | | | | |
| 112 | | | | | | | | |
| 132 | | | | | | | | |
| 160 | | | | | | | | Cast Iron |
| 180 | | | | | | | | |
| 200 | | | | | | | | Cast Iron |
| 225 | | | | | | | | |
| 250 | | | | | | | | |
| 280 | | | | | | | | |
| 315 | Cast Iron | | | | | | | |
| 355 | | | | | | | | |

MOUNTING ARRANGEMENTS

| | | | | | | |
|---|---|---|---|--|---|----------|
| B3 - IM 1001 | V5 - IM 1011 | V6 - IM 1031 | B6 - IM 1051 | B7 - IM 1061 | B8 - IM 107 | |
|  |  |  |  |  |  | |
| B5 - IM 3001 | V1 - IM 3011 | V3 - IM 3031 | | | | FA |
|  |  |  | | | | |
| B14 - IM 3601 | V18 - IM 3611 | V19 - IM 3631 | | | | FB or FC |
|  |  |  | | | | |
| B35 - IM 2001 | V15 - IM 2011 | V35 - IM 2031 | IM 2051 | IM 2061 | IM 2071 | PA |
|  |  |  |  |  |  | |
| B34 - IM 2101 | V17 - IM 2111 | V37 - IM 2131 | IM 2151 | IM 2161 | IM 2171 | PB or PC |
|  |  |  |  |  |  | |

BEARING

63-225 frame motors are equipped with deep groove ball bearings with ZZ shields.

250-355 frame size motors have external lubrication.

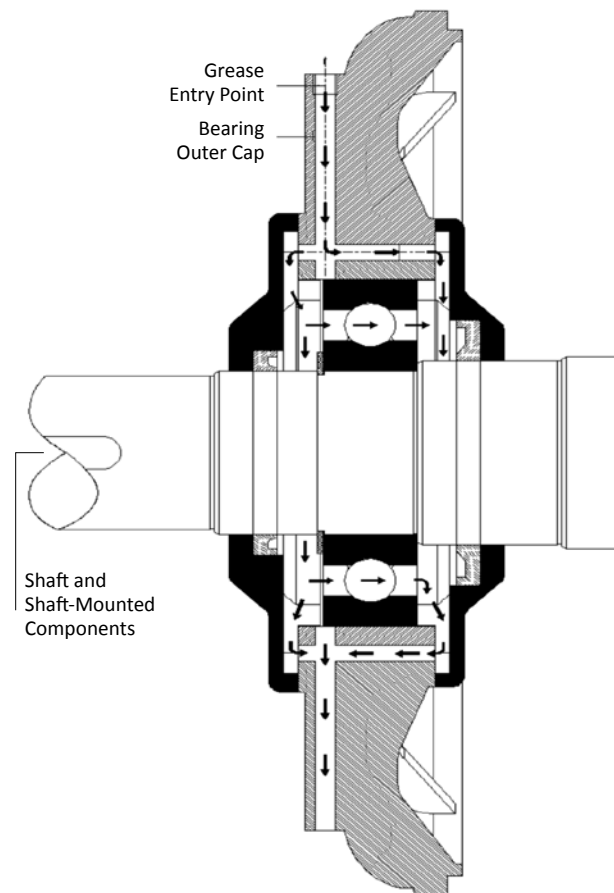
Please refer to the mechanical dimension section for specific motor data.

LUBRICATION

Closed type (2Z) roller bearings are being used. These types of roller bearings do not require maintenance since they are lubricated with the type of lubricant specified by the manufacturer.

Roller bearings should be replaced after 20,000 hours of operation (approx. 2-5 years of use) due to the specified operation temperature, vibration level and shaft loads.

The grease type and quantity are written on the nameplate for motors that have externally lubricated roller bearings. There are bearing lubrication channel and grease nipple for motors that have externally lubricated bearings. After lubrication, grease nipple cover must be closed. Grease must be avoided from dirt and dust during lubrication. Quantity of grease indicated on the nameplate should be considered and different grease must not be used. The mix of different grease must be avoided.



PAINTING

Our standard range of motors are painted with a grey protective paint according to RAL 7031 (grey). Other paint options are also available on request.

FEET

For 63-200 frame size aluminium motors, feet can be mounted on three sides, allowing terminal box assembly on the desired side. For 63-250 frame size aluminium motors, the feet are detachable and this feature provides flexibility for different mounting types.

TERMINAL BOX

Motors have terminal boxes situated on top at drive end. Terminal boxes can be rotated 90° for 63-250 frame sizes (except N series), so that conduits can be placed at each side of the motor.

DRAIN/CONDENSATION HOLES

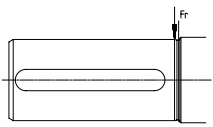
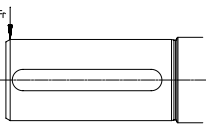
In the basic design, motors are supplied without holes. In case of customer requests, motors can be supplied with drain holes. Since these motors are provided with a special plug in the hole, the degree of protection remains IP 55.

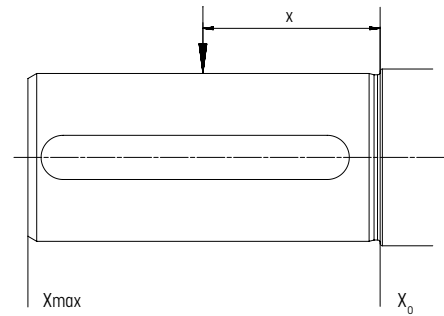
MOTOR IDENTIFICATION SYMBOLS

Q3E FA 225 M 4 C-43 (Sample motor number)

| | | | |
|--|------------|-----------------------------|---|
| Q3E Motor Type | 225 | Frame Size | Shaft height (mm) |
| Q4H IE4 efficiency class motors | | | |
| Q3H IE3 efficiency class motors | | | |
| Q3HS IE3 efficiency class motors | | | |
| Q2H IE2 efficiency class motors | | | |
| Q2HS IE2 efficiency class motors | | | |
| Q4E IE4 efficiency class motors | | | |
| Q3E IE3 efficiency class motors | | | |
| Q2E IE2 efficiency class motors | M | Motor Length | S Short |
| Q3D IE3 efficiency class inverter entegrated motors | | | M Medium |
| S3H IE3 efficiency class smoke extraction motors | | | L Long |
| S2H IE2 efficiency class smoke extraction motors | | | |
| QM Single phase motors with run capacitor | | | |
| QC Single phase motors with start and run capacitors | | | |
| P Housing Type | 4 | Number of Poles | 2.4.6.8 Poles |
| --- Aluminium | | | |
| P or G Cast Iron | | | |
| FA Construction Type | C | Core Length | (Does not affect outside dimensions) |
| --- with feet B3.B6.B7.B8.V5.V6/V19 | | | A Short |
| FA with A flange B5.V1.V3 | | | B Medium |
| FB with B flange B14.V18.V19 | | | C Long |
| FC with C flange B14.V18.V19 | | | D.E Extra Long |
| FS with special flange - | | | |
| PA with feet and A flange B3/B5.V1/V5.V3/V6 | | | |
| PB with feet and B flange B3/B14.V5/V18.V6/V19 | 43 | Special Motor Number | 01 - ... - 99 |
| PC with feet and C flange B3/B14.V5/V18.V6/V19 | | | |
| PS with feet and special flange - | | | |
| X without feet,flange and /or end-shield B9.V8.V9 | | | |

PERMISSIBLE RADIAL LOADS

| Radial Load Location | |  |  |
|----------------------|-------------|---|---|
| Frame Size | Speed [rpm] | RADIAL LOAD [X=0] [kN] | RADIAL LOAD [X=max] [kN] |
| 63 | 3000 | 0.25 | 0.22 |
| | 1500 | 0.29 | 0.25 |
| | 1000 | 0.31 | 0.27 |
| 71 | 3000 | 0.30 | 0.26 |
| | 1500 | 0.35 | 0.29 |
| | 1000 | 0.37 | 0.31 |
| 80 | 3000 | 0.54 | 0.45 |
| | 1500 | 0.62 | 0.51 |
| | 1000 | 0.66 | 0.54 |
| 90 | 3000 | 0.91 | 0.74 |
| | 1500 | 0.99 | 0.80 |
| | 1000 | 1.04 | 0.84 |
| 100 | 3000 | 1.21 | 0.96 |
| | 1500 | 1.31 | 1.04 |
| | 1000 | 1.38 | 1.09 |
| 112 | 3000 | 1.23 | 1.00 |
| | 1500 | 1.33 | 1.09 |
| | 1000 | 1.40 | 1.14 |
| 132 | 3000 | 1.22 | 0.98 |
| | 1500 | 1.31 | 1.04 |
| | 1000 | 1.34 | 1.08 |
| 160 | 3000 | 2.22 | 1.72 |
| | 1500 | 2.34 | 1.82 |
| | 1000 | 2.34 | 1.82 |
| 180 | 3000 | 2.68 | 2.12 |
| | 1500 | 2.82 | 2.23 |
| | 1000 | 2.93 | 2.31 |
| 200 | 3000 | 3.80 | 3.04 |
| | 1500 | 3.95 | 3.16 |
| | 1000 | 4.07 | 3.26 |
| 225 | 3000 | 4.45 | 3.65 |
| | 1500 | 4.59 | 3.60 |
| | 1000 | 4.73 | 3.71 |
| 250 | 3000 | 4.97 | 3.93 |
| | 1500 | 5.78 | 4.57 |
| 280 | 3000 | 4.97 | 3.93 |
| | 1500 | 5.78 | 4.57 |
| 315 | 3000 | 6.04 | 5.23 |
| | 1500 | 6.08 | 5.61 |
| 355 | 3000 | 5.88 | 5.17 |
| | 1500 | 8.49 | 7.37 |



Calculations are based on 20.000h (L10aah) bearing life time and the actual values will differ if radial and axial loads act at the same time. Mechanical strength of the end-shields should also be considered for critical applications.

Value of force F_r acting on any point of the shaft end (between points $X=\max$ and $X=0$) may be calculated according to the following formula:

$$F_r = F_{x0} - \frac{x}{E} \times (F_{x0} - F_{x\max}) \text{ [kN]}$$







Where; F_{x0} - value of F_r force acting on the beginning of the shaft end

$F_{x\max}$ - value of F_r force acting on the shaft end

E - length of the shaft end

* All calculations are based on floating bearing arrangement for standard (excluding compact & super compact) motors.

PERMISSIBLE AXIAL LOADS

| Position & Axial Load Direction | |  |  |  |  |  |  | | | |
|---------------------------------|-------------|---|---|---|---|---|---|-------------|--------|------|
| Frame Size | Speed [rpm] | MOTOR SERIES / AXIAL LOADS [kN] | | | | | | | | |
| | | QH, QE | QHS | QH, QHS, QE | QH, QHS, QE | QH, QE | QHS | QH, QHS, QE | QH, QE | QHS |
| 63 | 3000 | 0.09 | | 0.23 | 0.22 | 0.10 | | 0.24 | 0.08 | |
| | 1500 | 0.09 | | 0.31 | 0.29 | 0.11 | | 0.33 | 0.07 | |
| | 1000 | 0.09 | | 0.36 | 0.34 | 0.11 | | 0.38 | 0.07 | |
| 71 | 3000 | 0.11 | | 0.25 | 0.23 | 0.13 | | 0.27 | 0.09 | |
| | 1500 | 0.11 | | 0.33 | 0.31 | 0.14 | | 0.36 | 0.09 | |
| | 1000 | 0.11 | | 0.39 | 0.37 | 0.14 | | 0.42 | 0.09 | |
| 80 | 3000 | 0.15 | 0.15 | 0.43 | 0.40 | 0.18 | 0.18 | 0.46 | 0.12 | 0.12 |
| | 1500 | 0.15 | 0.15 | 0.57 | 0.53 | 0.19 | 0.19 | 0.61 | 0.11 | 0.11 |
| | 1000 | 0.15 | 0.15 | 0.67 | 0.63 | 0.19 | 0.19 | 0.71 | 0.11 | 0.11 |
| 90 | 3000 | 0.19 | 0.15 | 0.75 | 0.70 | 0.23 | 0.20 | 0.80 | 0.14 | 0.10 |
| | 1500 | 0.19 | 0.15 | 0.99 | 0.93 | 0.25 | 0.22 | 1.06 | 0.12 | 0.09 |
| | 1000 | 0.19 | 0.15 | 1.18 | 1.12 | 0.25 | 0.22 | 1.25 | 0.12 | 0.09 |
| 100 | 3000 | 0.19 | 0.19 | 0.94 | 0.88 | 0.25 | 0.25 | 1.01 | 0.12 | 0.12 |
| | 1500 | 0.19 | 0.19 | 1.25 | 1.17 | 0.27 | 0.27 | 1.34 | 0.10 | 0.10 |
| | 1000 | 0.19 | 0.19 | 1.49 | 1.41 | 0.27 | 0.27 | 1.58 | 0.10 | 0.10 |
| 112 | 3000 | 0.23 | 0.19 | 0.94 | 0.86 | 0.31 | 0.27 | 1.02 | 0.14 | 0.11 |
| | 1500 | 0.23 | 0.19 | 1.25 | 1.14 | 0.34 | 0.30 | 1.36 | 0.11 | 0.07 |
| | 1000 | 0.23 | 0.19 | 1.49 | 1.38 | 0.34 | 0.30 | 1.60 | 0.11 | 0.07 |
| 132 | 3000 | 0.30 | 0.23 | 0.93 | 0.75 | 0.48 | 0.41 | 1.11 | 0.12 | 0.04 |
| | 1500 | 0.30 | 0.23 | 1.23 | 1.01 | 0.52 | 0.44 | 1.45 | 0.08 | 9.00 |
| | 1000 | 0.30 | 0.26 | 1.46 | 1.24 | 0.52 | 0.47 | 1.68 | 0.08 | 0.04 |
| 160 | 3000 | 0.34 | 0.30 | 1.78 | 1.53 | 0.59 | 0.55 | 2.03 | ** | ** |
| | 1500 | 0.34 | 0.30 | 2.40 | 2.01 | 0.72 | 0.69 | 2.79 | ** | ** |
| | 1000 | 0.34 | 0.30 | 2.75 | 2.36 | 0.72 | 0.69 | 3.14 | ** | ** |
| 180 | 3000 | 0.38 | 0.34 | 2.01 | 1.65 | 0.73 | 0.69 | 2.37 | ** | ** |
| | 1500 | 0.38 | 0.34 | 2.70 | 2.18 | 0.90 | 0.86 | 3.22 | ** | ** |
| | 1000 | 0.38 | 0.34 | 3.20 | 2.68 | 0.90 | 0.86 | 3.72 | ** | ** |
| 200 | 3000 | 0.38 | | 2.60 | 1.95 | 1.03 | | 3.25 | ** | |
| | 1500 | 0.38 | | 3.52 | 2.77 | 1.13 | | 4.27 | ** | |
| | 1000 | 0.38 | | 4.20 | 3.45 | 1.13 | | 4.95 | ** | |
| 225 | 3000 | 0.49 | | 2.90 | 2.10 | 1.29 | | 3.70 | ** | |
| | 1500 | 0.49 | | 3.90 | 2.90 | 1.49 | | 4.90 | ** | |
| | 1000 | 0.49 | | 4.65 | 3.65 | 1.49 | | 5.65 | ** | |
| 250 | 3000 | 0.60 | | 3.65 | 2.65 | 1.60 | | 4.65 | ** | |
| | 1500 | 0.60 | | 4.75 | 3.54 | 1.81 | | 5.96 | ** | |
| 280 | 3000 | 0.60 | | 3.65 | 2.38 | 1.87 | | 4.92 | ** | |
| | 1500 | 0.60 | | 4.75 | 3.11 | 2.24 | | 6.39 | ** | |
| 315 | 3000 | 4.56 | | 3.68 | 1.52 | 7.90 | | ** | ** | |
| | 1500 | 5.20 | | 4.00 | 1.08 | 9.62 | | ** | ** | |
| 355 | 3000 | 4.52 | | 3.62 | 0.38 | 9.50 | | ** | ** | |
| | 1500 | 6.40 | | 5.00 | 2.73 | 13.55 | | ** | ** | |

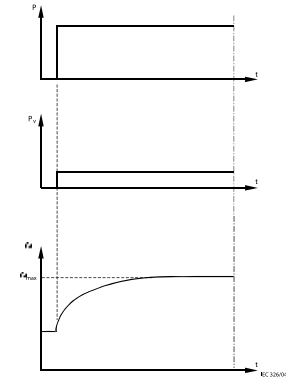
* All calculations are based on floating bearing arrangement for standard (excluding compact & super compact) motors.

** Please get in contact for a specific design.

DUTY TYPE

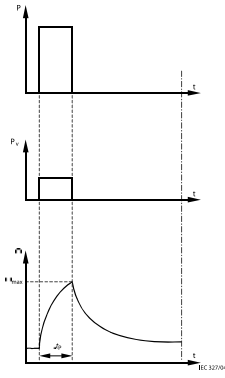
Duty types according to the IEC 60034-1 are given below:

S1: Continuous running duty



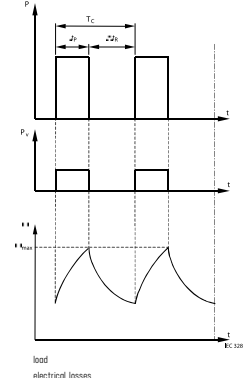
P load
 P_v electrical losses
 θ temperature
 θ_{max} maximum temperature attained
 t time

S2: Short-time duty



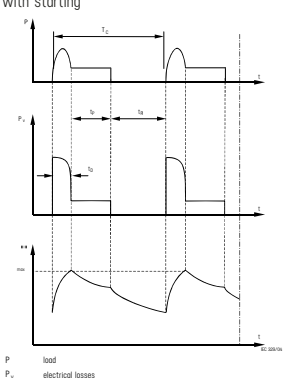
P load
 P_v electrical losses
 θ temperature
 θ_{max} maximum temperature attained
 t time
 t_p operation time at constant load

S3: Intermittent periodic duty



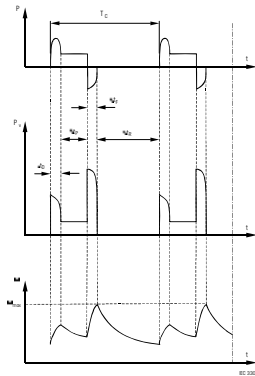
P load
 P_v electrical losses
 θ temperature
 θ_{max} maximum temperature attained
 t time
 T_C time of one load cycle
 ψ_p operation time at constant load
 ψ_R time de-energized and at rest

S4: Intermittent periodic duty with starting



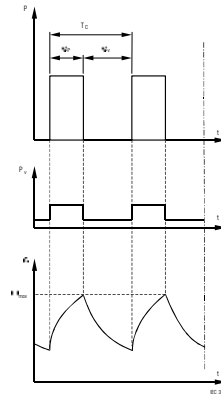
P load
 P_v electrical losses
 θ temperature
 θ_{max} maximum temperature attained
 t time
 T_C time of one load cycle
 ψ_D starting/accelerating time
 ψ_p operation time at constant load
 ψ_R time de-energized and at rest

S5: Intermittent periodic duty with electric braking



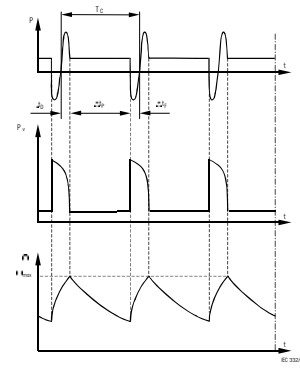
P load
 P_v electrical losses
 θ temperature
 θ_{max} maximum temperature attained
 t time
 T_C time of one load cycle
 ψ_D starting/accelerating time
 ψ_p operation time at constant load
 ψ_B time of electric braking
 ψ_R time de-energized and at rest

S6: Continuous operation periodic duty



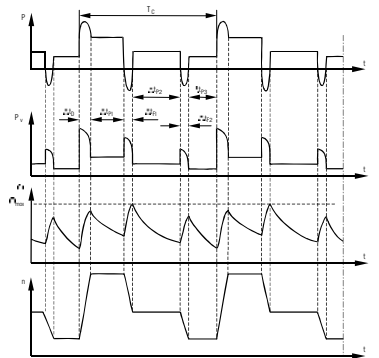
P load
 P_v electrical losses
 θ temperature
 θ_{max} maximum temperature attained
 t time
 T_C time of one load cycle
 ψ_p operation time at constant load
 ψ_R operation time at no-load

S7: Continuous operation periodic duty with electric braking



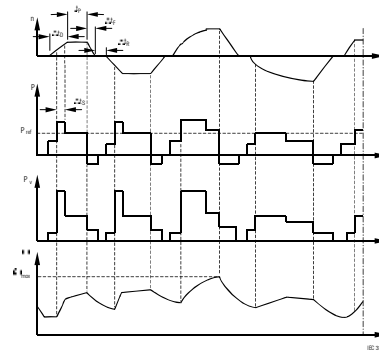
P load
 P_v electrical losses
 θ temperature
 θ_{max} maximum temperature attained
 t time
 T_C time of one load cycle
 ψ_D starting/accelerating time
 ψ_p operation time at constant load
 ψ_B time of electric braking

S8: Continuous operation periodic duty with related load/speed changes



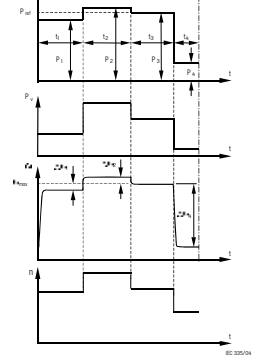
P load
 P_v electrical losses
 θ temperature
 θ_{max} maximum temperature attained
 n speed
 t time
 T_C time of one load cycle
 ψ_D starting/accelerating time
 ψ_p operation time at constant load (P1, P2, P3)
 ψ_B time of electric braking (F1, F2)

S9: Duty with non-periodic load and speed variations



P load
 P_{ref} reference load
 P_v electrical losses
 θ temperature
 θ_{max} maximum temperature attained
 n speed
 t time
 t_D starting/accelerating time
 t_p operation time at constant load
 t_B time of electric braking
 t_R time de-energized and at rest
 t_O time under overload

S10: Duty with discrete constant loads and speeds



P load
 P_{ref} constant load within a load cycle
 P_{ref} reference load based on duty type S1
 P_v electrical losses
 θ temperature
 θ_{ref} temperature of reference load based on duty type S1
 n speed
 t time
 t_c time of a constant load within a cycle
 T_C time of one load cycle
 $\Delta\theta$ difference between the temperature rise of the winding at each of the various loads within one cycle and the temperature rise based on duty cycle S1 with reference load

The duty type of our standard motors is S1. On customer demand, the other duty type-motors can be produced.

INDUCTION MOTORS FED BY INVERTER

Due to its simple and rugged construction, low cost production and less maintenance requirements, squirrel cage induction motors are the most preferred type of the motor in the industry. In particular, technological developments and cost reduction in power electronics fields and also regulations on energy efficiency especially in HVAC industry, motivate the use of induction machine fed by inverters.

Important issues regarding the motor operation supplied by the inverter are listed below:

- The application should be compatible with the torque-speed curve of the selected motor and also continuous and maximum output current capability of the inverter. Please, get in contact with your inverter supplier regarding the normal duty and heavy duty operation based on your application.
- High switching frequency operation of the inverter imposes voltage stress on motor insulation. Please, get in contact with your motor supplier if your inverter switching frequency is higher than 5 kHz.
- High switching frequency improves the efficiency of the motor and also decreases the noise level, while decreases the inverter efficiency.
- Motor control modes of the inverter (Scalar or Vector) are chosen depending on the applications. Scalar control (U/f) is used mainly in applications like pump and fans where the requirements on speed accuracy and load dynamics, and starting torque are not so strict.

Vector control mode is used mainly in applications, where high starting torque, high accuracy on speed and the fast changes at load, prolonged low speed operation at load are required. Due to the control principle, vector control can provide higher torque for the same motor current and handle dynamic torque changes. In that sense, in case of operation by scalar control mode, inverter with a higher current rating is required, for the same application conditions.

- Beside the efficiency class of the motor, efficient operation of the motor is also dependent on the parameter settings of the inverter. (Motor control modes, switching frequency, braking methods, torque boost in Scalar control have the influence on efficient operation and thermal load of the motor.)
- Control methods used in speed sensor-less vector control may have varying performance, dependent on the motor design. Therefore, although using the same inverter, user may experience different performance at the motors produced by the different manufacturers.
- Identification of the motor equivalent circuit, which is part of the auto-tuning procedure of the inverter, is a critical setting which has influence on torque capability, speed accuracy, low and high speed performance and also efficient operation of the motor.
- Inverter suppliers may have different PWM Modulation methods which has especially influence on noise characteristics of the motor and other characteristics like inverter and motor efficiency and thermal behaviour as well.

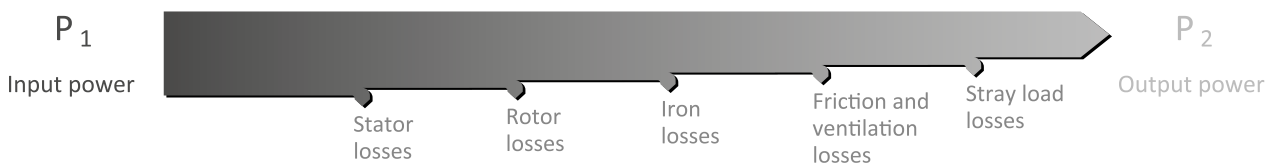


EFFICIENCY

European Committee of Manufacturers of Electrical Machines and Power Electronics (CEMEP) and European Commission issued a declaration on June 28, 1999 that categorized the motors in efficiency classes.

This standard covers 2, 4 and 6 pole motors in 0.12kW and 1000kW power range and 50-60Hz frequency and refers to IEC standard 60034-2-1 to define efficiency.

Efficiency is defined as the ratio of output power of the motor to the input power reflected in the cost and it is actually an indicator of losses.



Commission Regulation EU 2019/1781, amendment (EU) 2021/341 had set new requirements for electric motors;

Latest Ecodesign Regulation (EU) 2019/1781 came into effect in October 2019 and it applies to low-voltage induction electric motors rated at less than 1,000 V alternating current (AC).

The regulation will be implemented in two steps starting on July 1, 2021.

The second stage, which expands the scope further and increases the requirements for motors on July 1, 2023.

July 1, 2021

The regulation covers 3-phase single-speed motors 50 Hz, 60 Hz, 50/60 Hz for direct-on-line operation with continuous duty defined as $S_3 \geq 80\%$ and $S_6 \geq 80\%$.

Brake motors with external brake is also within the scope of new regulation.

Three phase motors with rated output $\geq 0,12$ kW and $< 0,75$ kW: minimum IE2 efficiency level is mandatory.

Three phase motors with rated output $\geq 0,75$ kW and $\leq 1\,000$ kW: minimum IE3 efficiency level is mandatory. Please also note that IE2 + VSD option is not allowed.

July 1, 2023

IE4 efficiency level mandatory for 3-phase motors: Rated output equal to or above 75 kW and equal or below 200 kW; with 2, 4 or 6 poles which are not brake motors nor Ex-motors.

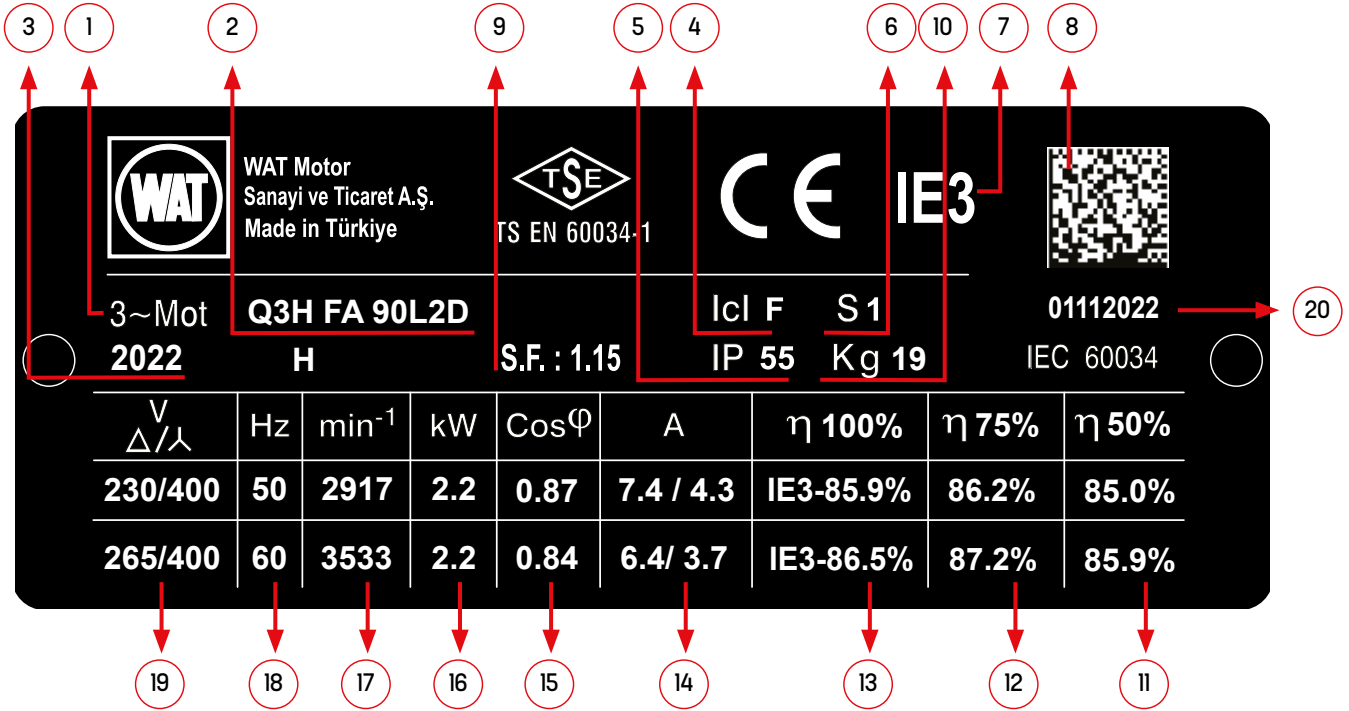
IE3 requirements as from July 1, 2021.

Three phase motors with rated output ≥ 75 kW and ≤ 200 kW: minimum IE4 efficiency level is mandatory.

Single phase motors with rated output $\geq 0,12$ kW and < 1000 kW: minimum IE2 efficiency level is mandatory.

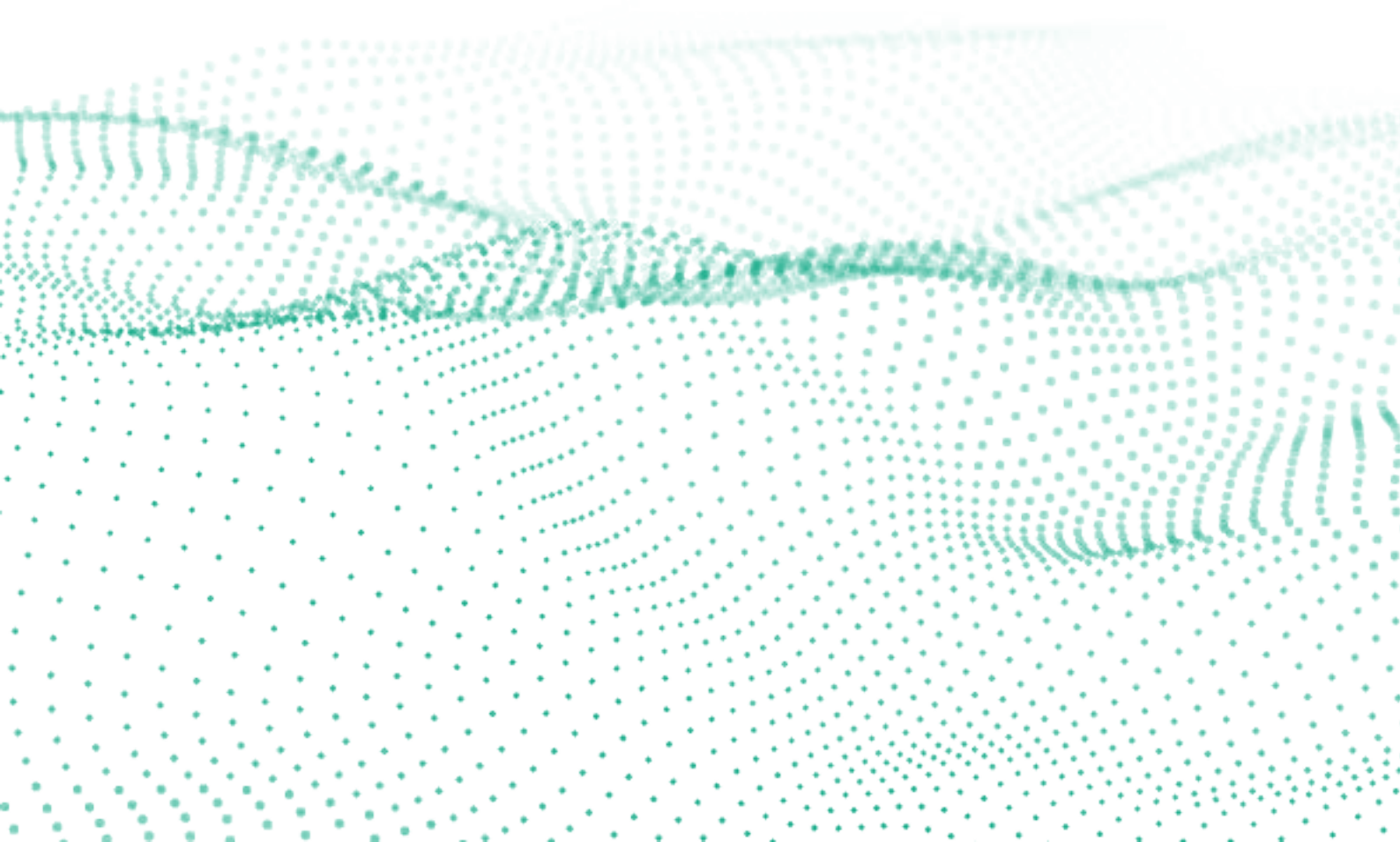
According to EC No 640/2009 regulation, motor labels will include 50Hz and 60Hz motor data as well as IE codes and efficiency value. Most prominent feature of new labels is that 2D barcoding will be placed on the labels. This application ensures the customers to track the motors.

With barcoding, the motor users will be able to reach information such as manufacture date of motor, results of routine testing (current with neutral resistance, power etc.) and serial no. and etc.

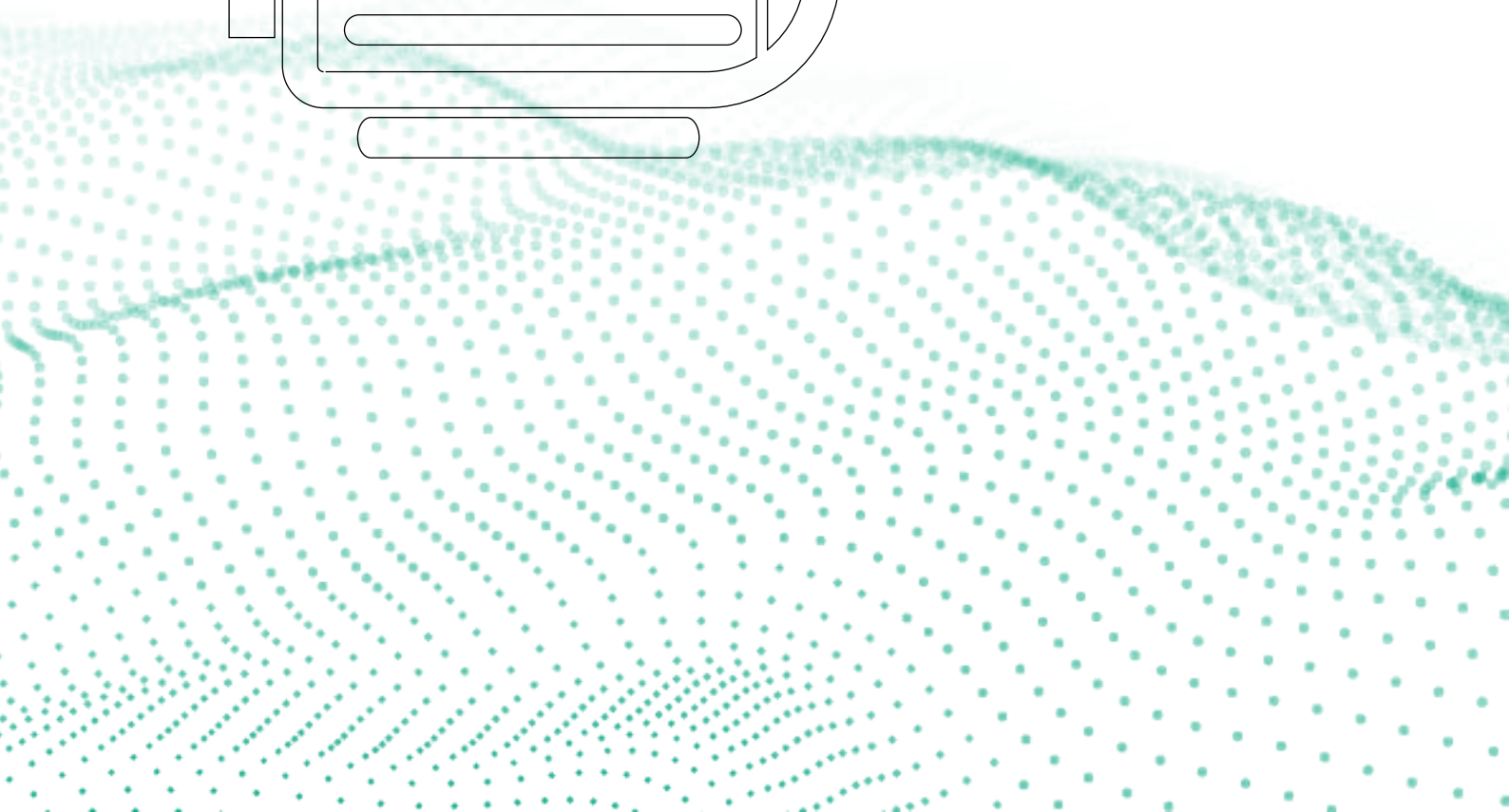
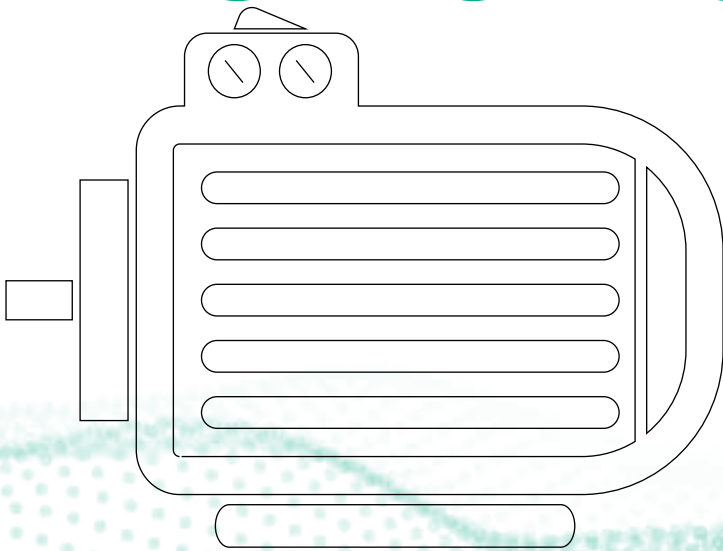


- | | | | |
|----|---|----|--|
| 1 | Motor type | 11 | Efficiency value (acc. to IEC 60034-2-1) |
| 2 | Motor code | 12 | Load value |
| 3 | Year of manufacture | 13 | Efficiency value (acc. to IEC 60034-2-1) |
| 4 | Insulation class | 14 | Nominal current |
| 5 | IP class | 15 | Power factor |
| 6 | Service type | 16 | Motor output power |
| 7 | Efficiency class (acc. to IEC 60034-30) | 17 | Rated speed |
| 8 | 2D Barcode | 18 | Motor nominal frequency |
| 9 | Service factor * | 19 | Operation voltage |
| 10 | Motor weight | 20 | Production tracing number |

* For IE2 and above efficiency (except 315 & 355 frame) motors, SF 1.15 is optional (with temperature rise F) for 315 & 355 frame motors.

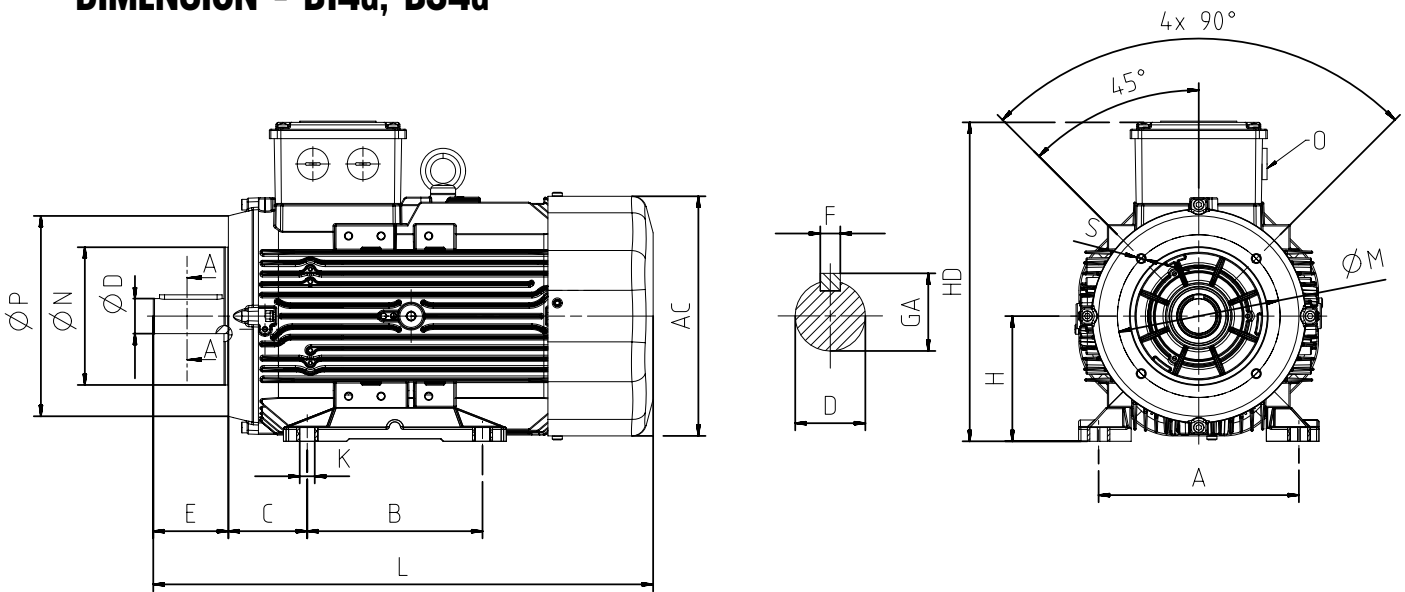


THREE PHASE ALUMINIUM MOTORS



IE4 THREE PHASE ALUMINIUM MOTORS

DIMENSION - B14a, B34a



| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | | Shaft | | | Bearing | | Seal | | Flange [FC B14a, B34a] | | | | | |
|------------|-----------------|------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|----|----|------------------|----|------|------------------|------------|----------------|------------|------------------------|-----|------------------|-----|---|-----|
| | | | | AC | L | O | B | A | H | HD | K | C | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive side | P | N ⁽³⁾ | M | R | S |
| 0.12 | 4 | Q4E63M4B | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 40 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 90 | 60 | 75 | - | M5 |
| 0.18 | 2 | Q4E63M2B | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 40 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 90 | 60 | 75 | - | M5 |
| 0.18 | 4 | Q4E63M4C | Aluminium | 123 | 234 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 40 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 90 | 60 | 75 | - | M5 |
| 0.25 | 2 | Q4E63M2C | Aluminium | 123 | 234 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 40 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 90 | 60 | 75 | - | M5 |
| 0.25 | 4 | Q4E71M4B | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 45 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 105 | 70 | 85 | - | M6 |
| 0.37 | 2 | Q4E71M2B | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 45 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 105 | 70 | 85 | - | M6 |
| 0.37 | 4 | Q4E71M4C | Aluminium | 138 | 262 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 45 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 105 | 70 | 85 | - | M6 |
| 0.55 | 2 | Q4E71M2C | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 45 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 105 | 70 | 85 | - | M6 |
| 0.55 | 4 | Q4H80M4D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| 0.75 | 2 | Q4H80M2D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| 0.75 | 4 | Q4H80M4E | Aluminium | 158 | 293 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| 1.1 | 2 | Q4H80M2DE | Aluminium | 158 | 293 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| 1.1 | 4 | Q4H90L4D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| 1.5 | 2 | Q4H90L2D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| 1.5 | 4 | Q4H90L4E | Aluminium | 172 | 379 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| 2.2 | 2 | Q4H90L2E | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| 2.2 | 4 | Q4H100L4D | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| 3 | 2 | Q4H100L2D | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| 3 | 4 | Q4H100L4E | Aluminium | 191 | 422 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| 4 | 2 | Q4H112M2D | Aluminium | 210 | 396 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| 4 | 4 | Q4H112M4E | Aluminium | 210 | 421 | 1xM25 | 140 | 190 | 112 | 266 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| 5.5 | 2 | Q4H132S2D | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 328 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |
| 5.5 | 4 | Q4H132S4C | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 328 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |
| 7.5 | 2 | Q4H132S2DE | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 328 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |
| 7.5 | 4 | Q4H132M4DE | Aluminium | 260 | 539 | 1xM32 | 140-178 | 216 | 132 | 328 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |

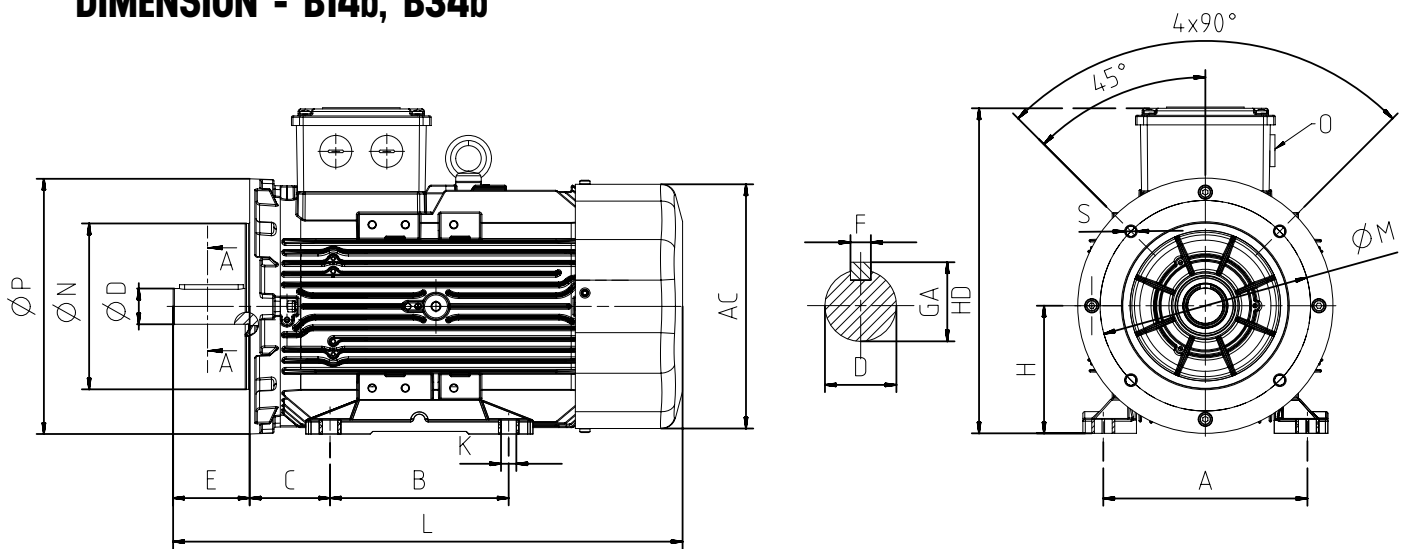
(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) According to DIN 6885

(3) Tolerance DIN EN 50347 "j6"

IE4 THREE PHASE ALUMINIUM MOTORS

DIMENSION - B14b, B34b



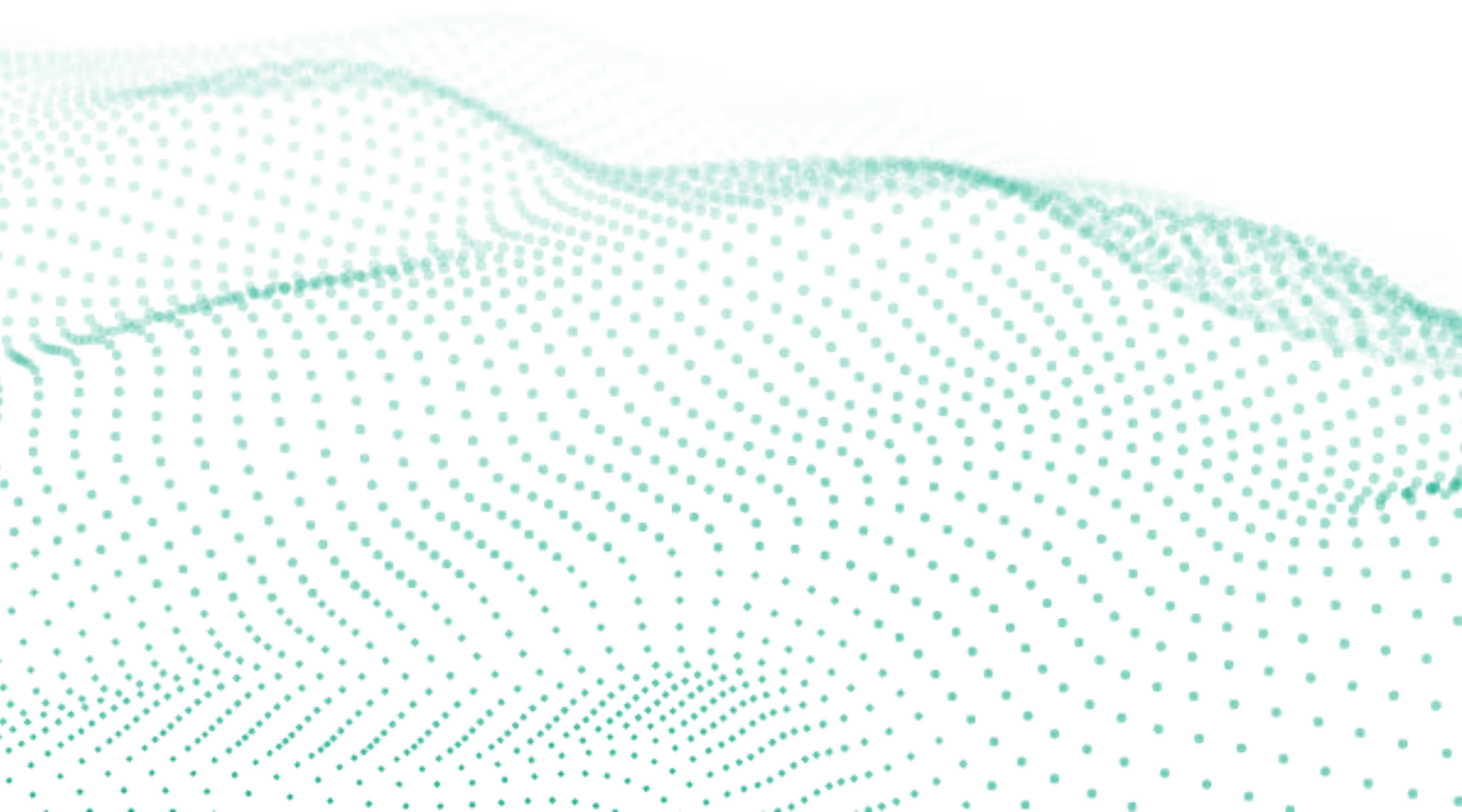
| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | | Shaft | | | | Bearing | | Seal | | Flange [FB B14b, B34b] | | | | |
|------------|-----------------|------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|----|----|------------------|----|------|------------------|------------|----------------|------------|----------------|------------------------|------------------|-----|---|-----|
| | | | | AC | L | O | B | A | H | HD | K | C | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive side | P | N ⁽³⁾ | M | R | S |
| 0.12 | 4 | Q4E63M4B | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 40 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 120 | 80 | 100 | - | M6 |
| 0.18 | 2 | Q4E63M2B | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 40 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 120 | 80 | 100 | - | M6 |
| 0.18 | 4 | Q4E63M4C | Aluminium | 123 | 234 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 40 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 120 | 80 | 100 | - | M6 |
| 0.25 | 2 | Q4E63M2C | Aluminium | 123 | 234 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 40 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 120 | 80 | 100 | - | M6 |
| 0.25 | 4 | Q4E71M4B | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 45 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 140 | 95 | 115 | - | M8 |
| 0.37 | 2 | Q4E71M2B | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 45 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 140 | 95 | 115 | - | M8 |
| 0.37 | 4 | Q4E71M4C | Aluminium | 138 | 262 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 45 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 140 | 95 | 115 | - | M8 |
| 0.55 | 2 | Q4E71M2C | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 45 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 140 | 95 | 115 | - | M8 |
| 0.55 | 4 | Q4H80M4D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| 0.75 | 2 | Q4H80M2D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| 0.75 | 4 | Q4H80M4E | Aluminium | 158 | 293 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| 1.1 | 2 | Q4H80M2DE | Aluminium | 158 | 293 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| 1.1 | 4 | Q4H90L4D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| 1.5 | 2 | Q4H90L2D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| 1.5 | 4 | Q4H90L4DE | Aluminium | 172 | 379 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| 2.2 | 2 | Q4H90L2E | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| 2.2 | 4 | Q4H100L4D | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| 3 | 2 | Q4H100L2D | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| 3 | 4 | Q4H100L4E | Aluminium | 191 | 422 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| 4 | 2 | Q4H112M2D | Aluminium | 210 | 396 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| 4 | 4 | Q4H112M4E | Aluminium | 210 | 421 | 1xM25 | 140 | 190 | 112 | 266 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| 5.5 | 2 | Q4H132S2D | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 328 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |
| 5.5 | 4 | Q4H132S4C | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 328 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |
| 7.5 | 2 | Q4H132S2DE | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 328 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |
| 7.5 | 4 | Q4H132M4DE | Aluminium | 260 | 539 | 1xM32 | 140-178 | 216 | 132 | 328 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |

(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) According to DIN 6885

(3) Tolerance DIN EN 50347 "j6"

IE3



IE3 THREE PHASE ALUMINIUM MOTORS



| MOTOR TYPE | HOUSING TYPE | RATED VALUES | | | | | | STARTING VALUES | | | | Break-down Torque Ratio Mk/ Mn | EFFICIENCY * | | | Cosφ 4/4 | J kgm ² | Weight [B3] kg | Sound Pressure Level dBA ** |
|------------------------|--------------|--------------|------|-------|---------|--------|---------------------------------|-----------------|---------------------------------|-----|-----|-----------------------------------|--------------|------|------|-------------|-----------------------|-------------------|-----------------------------|
| | | POWER | | SPEED | CURRENT | TORQUE | CURRENT | | TORQUE | | η % | | | | | | | | |
| | | kW | HP | rpm | A | Nm | I _A / I _N | Δ | M _A / M _N | Δ | 4/4 | | 3/4 | 2/4 | | | | | |
| 6 pole 1000 rpm | | | | | | | | | | | | | | | | | | | |
| 230/400V | Q3H90L6C | Aluminium | 0.75 | 1.0 | 950 | 2.1 | 7.6 | 4.9 | - | 2.5 | - | 3.0 | 78.9 | 78.4 | 74.9 | 0.67 | 0.00460 | 18 | 53 |
| | Q3H90L6D | Aluminium | 1.1 | 1.5 | 950 | 3.0 | 11.1 | 4.5 | - | 2.6 | - | 2.9 | 81.0 | 80.6 | 78.3 | 0.67 | 0.00528 | 20 | 53 |
| | Q3H100L6D | Aluminium | 1.5 | 2.0 | 960 | 4.1 | 14.9 | 4.8 | - | 2.6 | - | 3.0 | 82.5 | 81.7 | 78.2 | 0.65 | 0.01059 | 26 | 55 |
| | Q3H112M6D | Aluminium | 2.2 | 3.0 | 957 | 5.2 | 22.0 | 4.9 | - | 2.7 | - | 3.0 | 84.3 | 84.6 | 83.7 | 0.71 | 0.01383 | 32 | 57 |
| 400/690V | Q3H132S6A | Aluminium | 3.0 | 4.0 | 978 | 7.3 | 29.3 | 1.9 | 5.7 | 0.6 | 2.0 | 2.5 | 85.6 | 85.2 | 82.8 | 0.68 | 0.03560 | 53 | 61 |
| | Q3H132M6A | Aluminium | 4.0 | 5.5 | 975 | 9.1 | 39.2 | 2.0 | 6.0 | 0.7 | 2.2 | 2.6 | 86.8 | 85.7 | 82.8 | 0.72 | 0.04030 | 58 | 60 |
| | Q3H132M6B | Aluminium | 5.5 | 7.5 | 971 | 12.0 | 54.1 | 2.1 | 6.3 | 0.7 | 2.1 | 2.6 | 88.0 | 87.6 | 85.3 | 0.75 | 0.05940 | 82 | 60 |
| | Q3H160M6C | Aluminium | 7.5 | 10.0 | 976 | 16.5 | 73.4 | 2.0 | 6.0 | 0.7 | 2.2 | 3.0 | 89.1 | 89.0 | 88.0 | 0.73 | 0.07540 | 88 | 62 |
| | Q3H160L6D | Aluminium | 11.0 | 15.0 | 974 | 24.2 | 107.8 | 2.1 | 6.3 | 0.7 | 2.2 | 3.0 | 90.3 | 90.1 | 89.3 | 0.73 | 0.09000 | 101 | 62 |
| | Q3H180L6B | Aluminium | 15.0 | 20.0 | 980 | 32.2 | 146.2 | 2.2 | 6.6 | 0.7 | 2.1 | 2.9 | 91.2 | 90.9 | 88.7 | 0.75 | 0.18660 | 155 | 68 |
| | Q3H200L6C | Aluminium | 18.5 | 25.0 | 981 | 40.3 | 180.1 | 2.3 | 6.9 | 0.6 | 1.9 | 2.7 | 91.7 | 91.6 | 91.3 | 0.72 | 0.23286 | 194 | 69 |
| | Q3H200L6D | Aluminium | 22.0 | 30.0 | 982 | 50.5 | 213.9 | 2.9 | 5.0 | 0.6 | 1.9 | 2.2 | 92.2 | 92.2 | 91.6 | 0.69 | 0.22166 | 193 | 69 |
| | Q3E225M6C | Aluminium | 30.0 | 40.0 | 975 | 59.1 | 293.8 | 1.9 | 6.1 | 0.6 | 1.8 | 2.5 | 92.9 | 92.8 | 91.8 | 0.80 | 0.52900 | 238 | 71 |

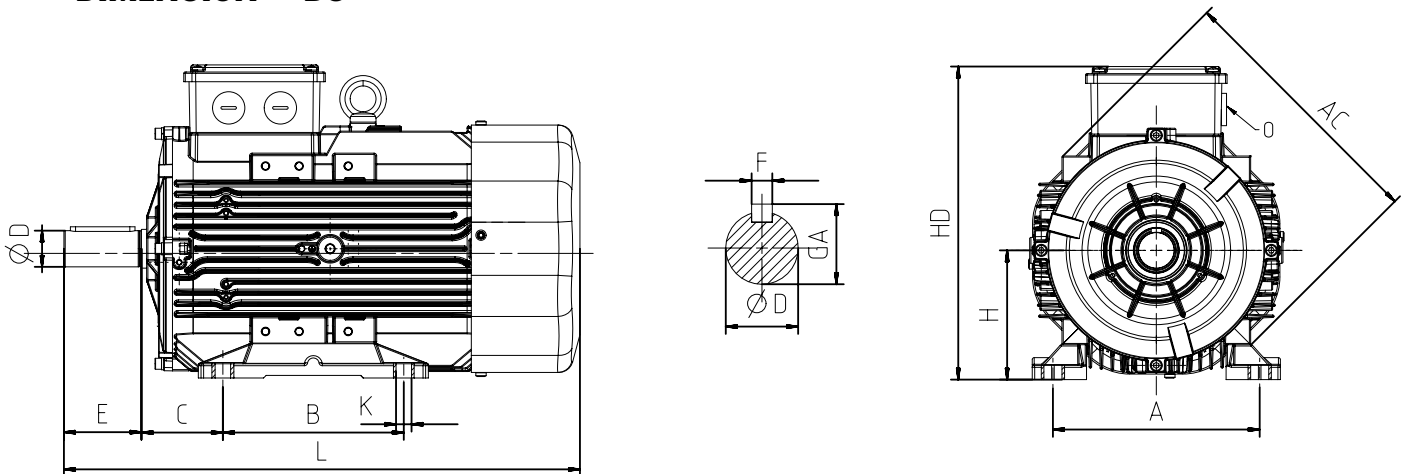
* According to IEC 60034-2-1

** The sound pressure measurements are taken 1m away from the motor

** Tolerance +3 dBA

IE3 THREE PHASE ALUMINIUM MOTORS

DIMENSION - B3



| SIZE | Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | Shaft | | | | Bearing | | Seal | | |
|------|------------|-----------------|------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|------|-------|------------------|-----|------|------------------|------------|----------------|------------|----------------|
| | | | | | AC | L | O | B | A | H | HD | K | C | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side |
| | 0.75 | 2 | Q3H80M2C | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| | 0.75 | 4 | Q3H80M4D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| | 0.75 | 6 | Q3H90L6C | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| | 1.1 | 2 | Q3H80M2D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| C | 1.1 | 4 | Q3H80M4DE | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| | 1.1 | 4 | Q3HS90S4C | Aluminium | 158 | 303 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 |
| | 1.1 | 6 | Q3H90L6D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| C | 1.5 | 2 | Q3H80M2DE | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| | 1.5 | 2 | Q3HS90S2C | Aluminium | 158 | 303 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 |
| | 1.5 | 4 | Q3H90L4D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| | 1.5 | 6 | Q3H100L6D | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 |
| | 2.2 | 2 | Q3H90L2D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| C | 2.2 | 4 | Q3H90L4DE | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| | 2.2 | 4 | Q3HS100L4C | Aluminium | 172 | 384 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 |
| | 2.2 | 6 | Q3H112M6D | Aluminium | 210 | 396 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 |
| C | 3 | 2 | Q3H90L2E | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| | 3 | 2 | Q3HS100L2C | Aluminium | 172 | 349 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 |
| | 3 | 4 | Q3H100L4D | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 |
| | 3 | 6 | Q3H132S6A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 |
| C | 4 | 2 | Q3H100L2DE | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 |
| | 4 | 2 | Q3HS112M2C | Aluminium | 191 | 400 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 |
| C | 4 | 4 | Q3H100L4E | Aluminium | 191 | 422 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 |
| | 4 | 4 | Q3H112M4D | Aluminium | 210 | 396 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 |
| | 4 | 6 | Q3H132M6A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 |
| SC | 5.5 | 2 | Q3H100L2E | Aluminium | 192 | 411 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 |
| C | 5.5 | 2 | Q3H112M2D | Aluminium | 210 | 396 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 |
| | 5.5 | 2 | Q3HS132S2C | Aluminium | 210 | 422 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 |
| C | 5.5 | 4 | Q3H112M4E | Aluminium | 210 | 421 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 |
| | 5.5 | 4 | Q3H132S4B | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 |
| | 5.5 | 6 | Q3H132M6B | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 |
| C | 7.5 | 2 | Q3H112M2DE | Aluminium | 210 | 421 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 |
| | 7.5 | 2 | Q3HS132S2D | Aluminium | 210 | 448 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 |
| | 7.5 | 4 | Q3H132M4D | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 |
| | 7.5 | 6 | Q3H160M6C | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 |

(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm
 (2) According to DIN 6885

IE3 THREE PHASE ALUMINIUM MOTORS

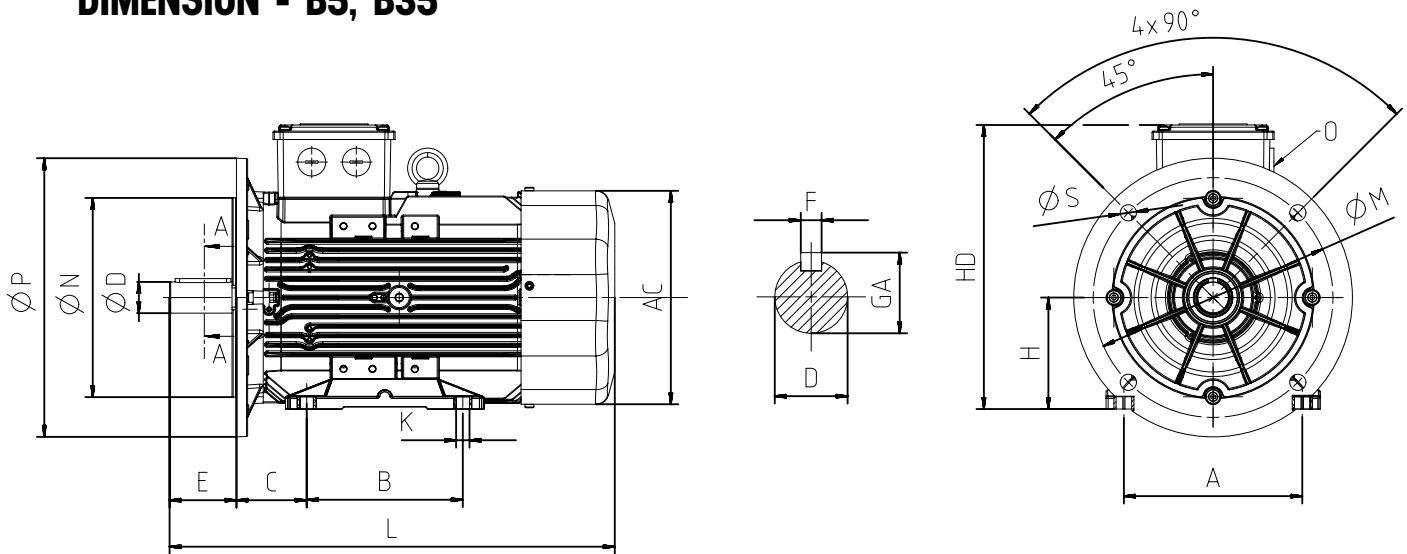


| SIZE | Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | | Shaft | | | | Bearing | | Seal | |
|------|------------|-----------------|-------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|------|-----|------------------|-----|------|------------------|------------|----------------|------------|----------------|
| | | | | | AC | L | O | B | A | H | HD | K | C | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side |
| C | 11 | 2 | Q3HI32M2A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 |
| | 11 | 2 | Q3HS160M2D | Aluminium | 260 | 520 | 1xM32 | 210-254 | 254 | 160 | 351 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6208-ZZ | 45*72*10 | 40*62*10 |
| C | 11 | 4 | Q3HI32M4E | Aluminium | 260 | 520 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 89 | 38 | 80 | 41 | 10 | 6309-ZZ | 6209-ZZ | 40*62*10 | 40*62*10 |
| | 11 | 4 | Q3HS160M4C | Aluminium | 260 | 578 | 1xM32 | 210-254 | 254 | 160 | 351 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6208-ZZ | 45*72*10 | 40*62*10 |
| | 11 | 6 | Q3HI60L6D | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 |
| C | 15 | 2 | Q3HI32M2B | Aluminium | 260 | 520 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 |
| | 15 | 2 | Q3HS160M2DE | Aluminium | 260 | 580 | 1xM32 | 210-254 | 254 | 160 | 351 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6208-ZZ | 45*72*10 | 40*62*10 |
| | 15 | 4 | Q3HI60L4B | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 |
| | 15 | 6 | Q3HI80L6B | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 |
| | 18.5 | 2 | Q3HI60L2C | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 |
| C | 18.5 | 4 | Q3HI60L4C | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 |
| | 18.5 | 4 | Q3HS180M4B | Aluminium | 305 | 596 | 1xM32 | 241-279 | 279 | 180 | 398 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6209-ZZ | 50*80*10 | 45*72*10 |
| | 18.5 | 6 | Q3H200L6C | Aluminium | 349 | 750 | 1xM50 | 305 | 318 | 200 | 455 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 |
| C | 22 | 2 | Q3HI60L2D | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 |
| | 22 | 2 | Q3HS180M2B | Aluminium | 305 | 596 | 1xM32 | 241-279 | 279 | 180 | 398 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6209-ZZ | 50*80*10 | 45*72*10 |
| | 22 | 4 | Q3HI80L4B | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 |
| | 22 | 6 | Q3H200L6D | Aluminium | 349 | 759 | 1xM50 | 267-305 | 318 | 200 | 455 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 |
| C | 30 | 2 | Q3HI80M2B | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 |
| | 30 | 2 | Q3H200L2C | Aluminium | 349 | 706 | 1xM50 | 267-305 | 318 | 200 | 455 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 |
| C | 30 | 4 | Q3HI80L4C | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 |
| | 30 | 4 | Q3H200L4D | Aluminium | 349 | 759 | 1xM50 | 267-305 | 318 | 200 | 455 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 |
| | 30 | 6 | Q3E225M6C | Aluminium | 456 | 765 | 1xM50 | 286-311 | 356 | 225 | 485 | 18.5 | 149 | 60 | 140 | 64 | 18 | 6313-ZZ | 6313-ZZ | 65*100*13 | 65*100*13 |
| | 37 | 2 | Q3H200L2D | Aluminium | 349 | 706 | 1xM50 | 305 | 318 | 200 | 455 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 |
| | 37 | 4 | Q3E225M4B | Aluminium | 456 | 765 | 1xM50 | 286-311 | 356 | 225 | 485 | 18.5 | 149 | 60 | 140 | 64 | 18 | 6313-ZZ | 6313-ZZ | 65*100*13 | 65*100*13 |
| SC | 45 | 2 | Q3HI80L2DE | Aluminium | 349 | 750 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 |
| C | 45 | 2 | Q3H200L2DE | Aluminium | 349 | 759 | 1xM50 | 267-305 | 318 | 200 | 455 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 |
| | 45 | 2 | Q3E225M2B | Aluminium | 456 | 735 | 1xM50 | 286-311 | 356 | 225 | 485 | 18.5 | 149 | 55 | 110 | 59 | 16 | 6313-ZZ | 6313-ZZ | 65*100*13 | 65*100*13 |
| | 45 | 4 | Q3E225M4C | Aluminium | 456 | 765 | 1xM50 | 286-311 | 356 | 225 | 485 | 18.5 | 149 | 60 | 140 | 64 | 18 | 6313-ZZ | 6313-ZZ | 65*100*13 | 65*100*13 |
| | 55 | 2 | Q3E250M2A | Aluminium | 527 | 886 | 2xM50 | 349 | 406 | 250 | 615 | 24 | 149 | 60 | 140 | 64 | 18 | 6315-ZZ | 6313-ZZ | 75*112*12 | 65*100*13 |

(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) According to DIN 6885

DIMENSION - B5, B35



| SIZE | Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | Shaft | | | | Bearing | | Seal | | Flange [FA] (B5) | | | | | |
|------|------------|-----------------|------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|-------|------------------|----|------|------------------|------------|----------------|------------|------------------|-----|------------------|-----|---|------|
| | | | | | AC | L | O | B | A | H | HD | K | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ⁽³⁾ | M | R | S |
| | 0.75 | 2 | Q3H80M2C | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| | 0.75 | 4 | Q3H80M4D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| | 0.75 | 6 | Q3H90L6C | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 12 |
| C | 1.1 | 2 | Q3H80M2D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| | 1.1 | 4 | Q3H80M4DE | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| | 1.1 | 4 | Q3HS90S4C | Aluminium | 158 | 303 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| | 1.1 | 6 | Q3H90L6D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 12 |
| C | 1.5 | 2 | Q3H80M2DE | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| | 1.5 | 2 | Q3HS90S2C | Aluminium | 158 | 303 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| | 1.5 | 4 | Q3H90L4D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 12 |
| | 1.5 | 6 | Q3HI00L6D | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| C | 2.2 | 2 | Q3H90L2D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 12 |
| | 2.2 | 4 | Q3H90L4DE | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 12 |
| | 2.2 | 4 | Q3HS100L4C | Aluminium | 172 | 384 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 250 | 180 | 215 | - | 14.5 |
| | 2.2 | 6 | Q3HI12M6D | Aluminium | 210 | 396 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| C | 3 | 2 | Q3H90L2E | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 12 |
| | 3 | 2 | Q3HS100L2C | Aluminium | 172 | 349 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 250 | 180 | 215 | - | 14.5 |
| | 3 | 4 | Q3HI00L4D | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| | 3 | 6 | Q3HI32S6A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| C | 4 | 2 | Q3HI00L2DE | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| | 4 | 2 | Q3HS112M2C | Aluminium | 191 | 399 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 250 | 180 | 215 | - | 14.5 |
| | 4 | 4 | Q3HI00L4E | Aluminium | 191 | 422 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| | 4 | 4 | Q3HI12M4D | Aluminium | 210 | 396 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| | 4 | 6 | Q3HI32M6A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| SC | 5.5 | 2 | Q3HI00L2E | Aluminium | 192 | 411 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| C | 5.5 | 2 | Q3HI12M2D | Aluminium | 210 | 396 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| | 5.5 | 2 | Q3HS132S2C | Aluminium | 210 | 422 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 | 300 | 230 | 265 | - | 14.5 |
| | 5.5 | 4 | Q3HI12M4E | Aluminium | 210 | 421 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| | 5.5 | 4 | Q3HI32S4B | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| | 5.5 | 6 | Q3HI32M6B | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| C | 7.5 | 2 | Q3HI12M2DE | Aluminium | 210 | 421 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| | 7.5 | 2 | Q3HS132S2D | Aluminium | 210 | 448 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 | 300 | 230 | 265 | - | 14.5 |
| | 7.5 | 4 | Q3HI32M4D | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |

(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) According to DIN 6885

(3) Tolerance DIN EN 50347 "j6"

IE3 THREE PHASE ALUMINIUM MOTORS



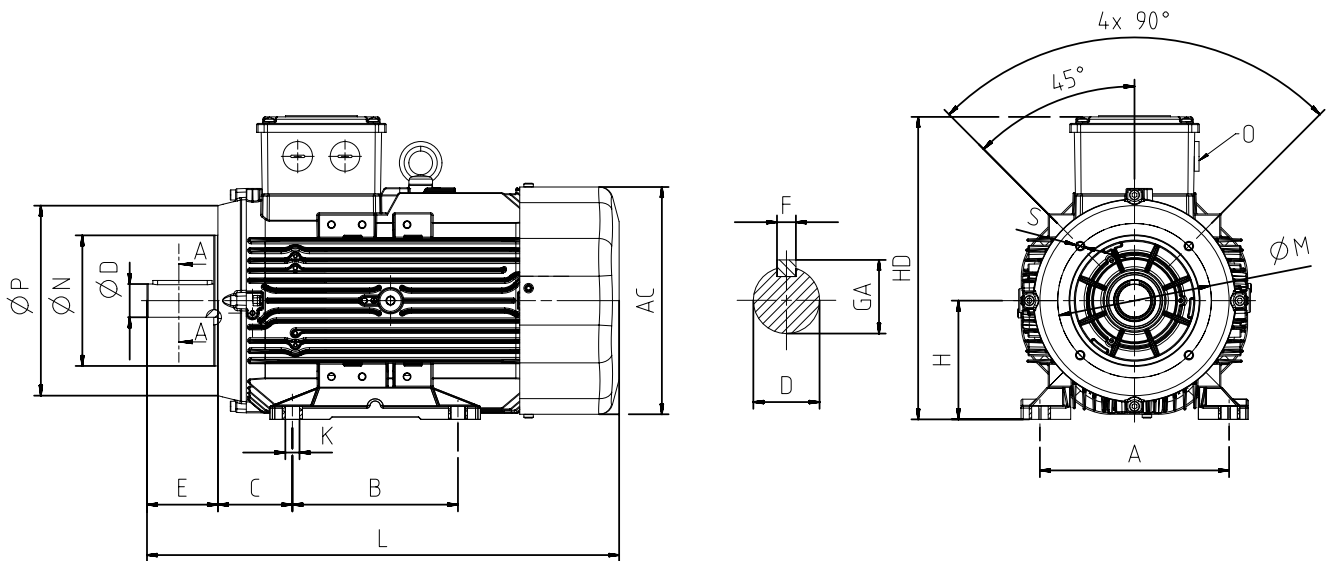
| SIZE | Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | Shaft | | | | Bearing | | Seal | | Flange [FA] [B5] | | | | |
|------|------------|-----------------|-------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|------|------------------|-----|------|------------------|------------|----------------|------------|----------------|------------------|------------------|-----|---|------|
| | | | | | AC | L | O | B | A | H | HD | K | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ⁽³⁾ | M | R | S |
| | 7.5 | 6 | Q3HI60M6C | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| C | 11 | 2 | Q3HI32M2A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| | 11 | 2 | Q3HS160M2D | Aluminium | 260 | 520 | 1xM32 | 210-254 | 254 | 160 | 351 | 14.5 | 42 | 110 | 45 | 12 | 6309-ZZ | 6208-ZZ | 45*72*10 | 40*62*10 | 350 | 250 | 300 | - | 18.5 |
| C | 11 | 4 | Q3HI32M4E | Aluminium | 260 | 520 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6309-ZZ | 6209-ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| | 11 | 4 | Q3HS160M4C | Aluminium | 260 | 580 | 1xM32 | 210-254 | 254 | 160 | 351 | 14.5 | 42 | 110 | 45 | 12 | 6309-ZZ | 6208-ZZ | 45*72*10 | 40*62*10 | 350 | 250 | 300 | - | 18.5 |
| | 11 | 6 | Q3HI60L6D | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| C | 15 | 2 | Q3HI32M2B | Aluminium | 260 | 520 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| | 15 | 2 | Q3HS160M2DE | Aluminium | 260 | 580 | 1xM32 | 210-254 | 254 | 160 | 351 | 14.5 | 42 | 110 | 45 | 12 | 6309-ZZ | 6208-ZZ | 45*72*10 | 40*62*10 | 350 | 250 | 300 | - | 18.5 |
| | 15 | 4 | Q3HI60L4B | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| | 15 | 6 | Q3HI80L6B | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 | 350 | 250 | 300 | - | 18.5 |
| C | 18.5 | 4 | Q3HI60L4C | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| | 18.5 | 4 | Q3HS180M4B | Aluminium | 305 | 596 | 1xM32 | 241-279 | 279 | 180 | 398 | 14.5 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6209-ZZ | 50*80*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| | 18.5 | 6 | Q3H200L6C | Aluminium | 349 | 750 | 1xM50 | 305 | 318 | 200 | 455 | 18.5 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 | 400 | 300 | 350 | - | 18.5 |
| C | 22 | 2 | Q3HI60L2D | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| | 22 | 2 | Q3HS180M2B | Aluminium | 305 | 596 | 1xM32 | 241-279 | 279 | 180 | 398 | 14.5 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6209-ZZ | 50*80*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| | 22 | 4 | Q3HI80L4B | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 | 350 | 250 | 300 | - | 18.5 |
| | 22 | 6 | Q3H200L6D | Aluminium | 349 | 759 | 1xM50 | 305 | 318 | 200 | 455 | 18.5 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 | 400 | 300 | 350 | - | 18.5 |
| C | 30 | 2 | Q3HI80M2B | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 | 350 | 250 | 300 | - | 18.5 |
| | 30 | 2 | Q3H200L2C | Aluminium | 349 | 706 | 1xM50 | 305 | 318 | 200 | 455 | 18.5 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 | 400 | 300 | 350 | - | 18.5 |
| C | 30 | 4 | Q3HI80L4C | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 | 350 | 250 | 300 | - | 18.5 |
| | 30 | 4 | Q3H200L4D | Aluminium | 349 | 759 | 1xM50 | 305 | 318 | 200 | 455 | 18.5 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 | 400 | 300 | 350 | - | 18.5 |
| | 30 | 6 | Q3E225M6C | Aluminium | 456 | 765 | 1xM50 | 286-311 | 356 | 225 | 485 | 18.5 | 60 | 140 | 64 | 18 | 6313-ZZ | 6313-ZZ | 65*100*13 | 65*100*13 | 450 | 350 | 400 | - | 18.5 |
| | 37 | 2 | Q3H200L2D | Aluminium | 349 | 706 | 1xM50 | 305 | 318 | 200 | 455 | 18.5 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 | 400 | 300 | 350 | - | 18.5 |
| | 37 | 4 | Q3E225M4B | Aluminium | 456 | 765 | 1xM50 | 286-311 | 356 | 225 | 485 | 18.5 | 60 | 140 | 64 | 18 | 6313-ZZ | 6313-ZZ | 65*100*13 | 65*100*13 | 450 | 350 | 400 | - | 18.5 |
| SC | 45 | 2 | Q3HI80L2DE | Aluminium | 349 | 750 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 | 350 | 250 | 300 | - | 18.5 |
| C | 45 | 2 | Q3H200L2DE | Aluminium | 349 | 759 | 1xM50 | 267-305 | 318 | 200 | 455 | 18.5 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 | 400 | 300 | 350 | - | 18.5 |
| | 45 | 2 | Q3E225M2B | Aluminium | 456 | 735 | 1xM50 | 286-311 | 356 | 225 | 485 | 18.5 | 55 | 110 | 59 | 16 | 6313-ZZ | 6313-ZZ | 65*100*13 | 65*100*13 | 450 | 350 | 400 | - | 18.5 |
| | 45 | 4 | Q3E225M4C | Aluminium | 456 | 765 | 1xM50 | 286-311 | 356 | 225 | 485 | 18.5 | 60 | 140 | 64 | 18 | 6313-ZZ | 6313-ZZ | 65*100*13 | 65*100*13 | 450 | 350 | 400 | - | 18.5 |
| | 55 | 2 | Q3E250M2A | Aluminium | 527 | 886 | 2*M50 | 349 | 406 | 250 | 615 | 24 | 60 | 140 | 64 | 18 | 6315-ZZ | 6313-ZZ | 75*112*12 | 65*100*13 | 550 | 450 | 500 | - | 18.5 |

(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) According to DIN 6885

(3) Tolerance DIN EN 50347 "j6"

DIMENSION - B14a, B34a



| SIZE | Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | Shaft | | | | Bearing | | Seal | | Flange [FC] [B14a] | | | | | |
|------|------------|-----------------|------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|-------|------------------|----|------|------------------|------------|----------------|------------|--------------------|-----|------------------|-----|---|-----|
| | | | | | AC | L | O | B | A | H | HD | K | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ⁽³⁾ | M | R | S |
| | 0.75 | 2 | Q3H80M2C | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| | 0.75 | 4 | Q3H80M4D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| | 0.75 | 6 | Q3H90L6C | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| | 1.1 | 2 | Q3H80M2D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| C | 1.1 | 4 | Q3H80M4DE | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| | 1.1 | 4 | Q3HS90S4C | Aluminium | 158 | 303 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 | 140 | 95 | 115 | - | M8 |
| | 1.1 | 6 | Q3H90L6D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| C | 1.5 | 2 | Q3H80M2DE | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| | 1.5 | 2 | Q3HS90S2C | Aluminium | 158 | 303 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 | 140 | 95 | 115 | - | M8 |
| | 1.5 | 4 | Q3H90L4D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| | 1.5 | 6 | Q3HI00L6D | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| | 2.2 | 2 | Q3H90L2D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| C | 2.2 | 4 | Q3H90L4DE | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| | 2.2 | 4 | Q3HS100L4C | Aluminium | 172 | 384 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| | 2.2 | 6 | Q3HI12M6D | Aluminium | 210 | 396 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| C | 3 | 2 | Q3H90L2E | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| | 3 | 2 | Q3HS100L2C | Aluminium | 172 | 349 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| | 3 | 4 | Q3HI00L4D | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| | 3 | 6 | Q3HI32S6A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |
| C | 4 | 2 | Q3HI00L2DE | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| | 4 | 2 | Q3HS112M2C | Aluminium | 191 | 399 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| C | 4 | 4 | Q3HI00L4E | Aluminium | 191 | 422 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| | 4 | 4 | Q3HI12M4D | Aluminium | 210 | 396 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| | 4 | 6 | Q3HI32M6A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |

(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) According to DIN 6885

(3) Tolerance DIN EN 50347 "j6"

IE3 THREE PHASE ALUMINIUM MOTORS



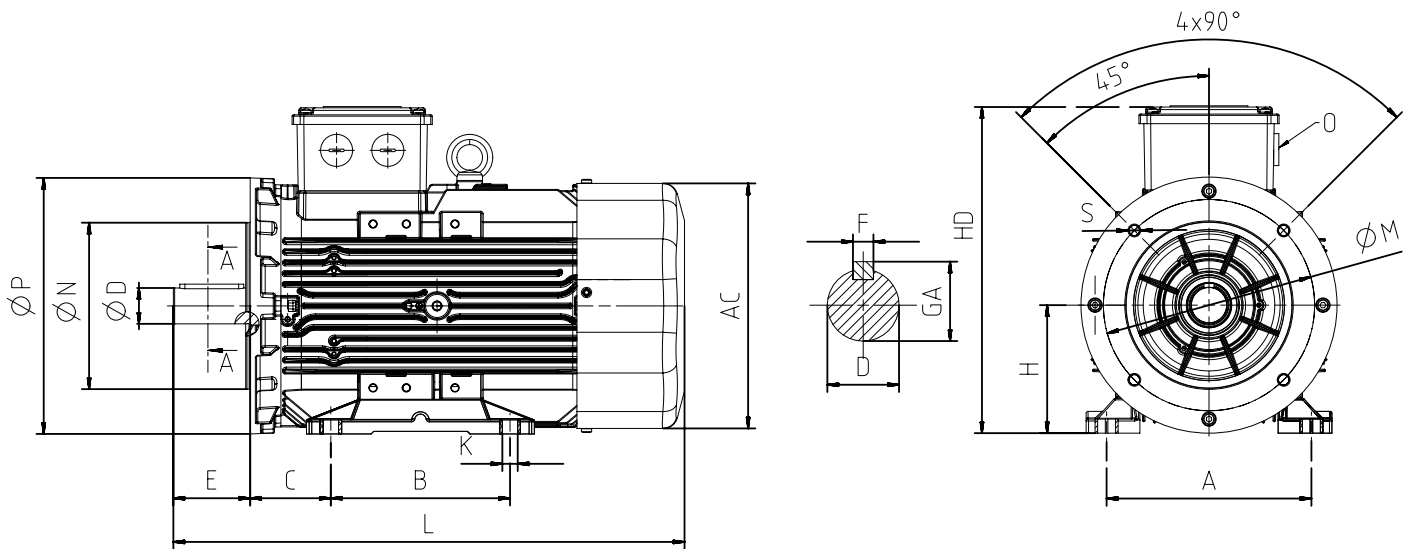
| SIZE | Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | Shaft | | | | Bearing | | Seal | | Flange [FC] [B14a] | | | | |
|------|------------|-----------------|------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|----|------------------|----|----|------------------|------------|----------------|------------|----------------|--------------------|------------------|-----|---|-----|
| | | | | | AC | L | O | B | A | H | HD | K | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ⁽³⁾ | M | R | S |
| SC | 5.5 | 2 | Q3HI00L2E | Aluminium | 192 | 411 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| C | 5.5 | 2 | Q3HI12M2D | Aluminium | 210 | 396 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| | 5.5 | 2 | Q3HSI32S2C | Aluminium | 210 | 422 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| C | 5.5 | 4 | Q3HI12M4E | Aluminium | 210 | 421 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| | 5.5 | 4 | Q3HI32S4B | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |
| | 5.5 | 6 | Q3HI32M6B | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |
| C | 7.5 | 2 | Q3HI12M2DE | Aluminium | 210 | 421 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| | 7.5 | 2 | Q3HSI32S2D | Aluminium | 210 | 448 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| | 7.5 | 4 | Q3HI32M4D | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |
| C | 11 | 2 | Q3HI32M2A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |
| C | 11 | 4 | Q3HI32M4E | Aluminium | 260 | 520 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |
| C | 15 | 2 | Q3HI32M2B | Aluminium | 260 | 520 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |

(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) According to DIN 6885

(3) Tolerance DIN EN 50347 "j6"

DIMENSION - B14b, B34b



| SIZE | Power (kW) | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | | Foot Mounted Motors | | | | Shaft | | | Bearing | | Seal | | Flange (FB) (B14b) | | | | | |
|------|------------|-----------------|------------|--------------|-----------------|-----|-------|---------|---------------------|-----|-----|----|------------------|----|------|------------------|------------|----------------|------------|--------------------|-----|------------------|-----|---|-----|
| | | | | | AC | L | O | B | A | H | HD | K | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ⁽³⁾ | M | R | S |
| | 0.75 | 2 | Q3H80M2C | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| | 0.75 | 4 | Q3H80M4D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| | 0.75 | 6 | Q3H90L6C | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| | 1.1 | 2 | Q3H80M2D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| C | 1.1 | 4 | Q3H80M4DE | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| | 1.1 | 4 | Q3HS90S4C | Aluminium | 158 | 303 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| | 1.1 | 6 | Q3H90L6D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| C | 1.5 | 2 | Q3H80M2DE | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| | 1.5 | 2 | Q3HS90S2C | Aluminium | 158 | 303 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| | 1.5 | 4 | Q3H90L4D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| | 1.5 | 6 | Q3H100L6D | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| | 2.2 | 2 | Q3H90L2D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| C | 2.2 | 4 | Q3H90L4DE | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| | 2.2 | 4 | Q3HS100L4C | Aluminium | 172 | 384 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 200 | 130 | 165 | - | M10 |
| | 2.2 | 6 | Q3H112M6D | Aluminium | 210 | 396 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| C | 3 | 2 | Q3H90L2E | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| | 3 | 2 | Q3HS100L2C | Aluminium | 172 | 349 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 200 | 130 | 165 | - | M10 |
| | 3 | 4 | Q3H100L4D | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| | 3 | 6 | Q3H132S6A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |
| C | 4 | 2 | Q3H100L2DE | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| | 4 | 2 | Q3HS112M2C | Aluminium | 191 | 399 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 200 | 130 | 165 | - | M10 |
| C | 4 | 4 | Q3H100L4E | Aluminium | 191 | 422 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| | 4 | 4 | Q3H112M4D | Aluminium | 210 | 396 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| | 4 | 6 | Q3H132M6A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |

(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) According to DIN 6885

(3) Tolerance DIN EN 50347 "j6"

IE3 THREE PHASE ALUMINIUM MOTORS



| SIZE | Power (kW) | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | Shaft | | | | Bearing | | Seal | | Flange (FB) (B14b) | | | | |
|------|------------|-----------------|------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|----|------------------|----|----|------------------|------------|----------------|------------|----------------|--------------------|------------------|-----|---|-----|
| | | | | | AC | L | O | B | A | H | HD | K | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ⁽³⁾ | M | R | S |
| SC | 5.5 | 2 | Q3HI00L2E | Aluminium | 192 | 411 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| C | 5.5 | 2 | Q3HI12M2D | Aluminium | 210 | 396 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| | 5.5 | 2 | Q3HSI32S2C | Aluminium | 210 | 422 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 | 250 | 180 | 215 | - | M12 |
| C | 5.5 | 4 | Q3HI12M4E | Aluminium | 210 | 421 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| | 5.5 | 4 | Q3HI32S4B | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |
| | 5.5 | 6 | Q3HI32M6B | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |
| C | 7.5 | 2 | Q3HI12M2DE | Aluminium | 210 | 421 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| | 7.5 | 2 | Q3HSI32S2D | Aluminium | 210 | 448 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 | 250 | 180 | 215 | - | M12 |
| | 7.5 | 4 | Q3HI32M4D | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |
| C | 11 | 2 | Q3HI32M2A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |
| C | 11 | 4 | Q3HI32M4E | Aluminium | 260 | 520 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |
| C | 15 | 2 | Q3HI32M2B | Aluminium | 260 | 520 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |

(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) According to DIN 6885

(3) Tolerance DIN EN 50347 "j6"

ELECTRICAL CHARACTERISTICS AT 50 Hz

| MOTOR TYPE | HOUSING TYPE | RATED VALUES | | | | | STARTING VALUES | | | | Break-down Torque Ratio | EFFICIENCY * | | | Cosφ | J | Weight (B3) | Sound Pressure Level dBA ** | |
|------------------------|--------------|--------------|------|-------|---------|--------|-----------------|-----------|----------|-------------|-------------------------|--------------|----------|--------|------|------|-------------|-----------------------------|-----|
| | | POWER | | SPEED | CURRENT | TORQUE | CURRENT | | TORQUE | | | η % | | | | | | | |
| | | kW | HP | rpm | A | Nm | I_A / I_N | λ | Δ | M_A / M_N | | λ | Δ | Mk/ Mn | | | | | 4/4 |
| 2 pole 3000 rpm | | | | | | | | | | | | | | | | | | | |
| 230/400V | Q3N80S2C | Aluminium | 0.75 | 1 | 2890 | 1.8 | 2.5 | 7.7 | | 3.4 | | 4.1 | 80.7 | 77.6 | 73.2 | 0.77 | | | 57 |
| | Q3N80S2D | Aluminium | 1.1 | 1.5 | 2880 | 2.3 | 3.7 | 8.2 | | 3.3 | | 4 | 82.7 | 80.6 | 77.4 | 0.82 | | | 58 |
| | Q3N90S2C | Aluminium | 1.5 | 2 | 2885 | 3.1 | 5 | 7.4 | | 2.9 | | 3.5 | 84.2 | 82.6 | 80.5 | 0.83 | | | 61 |
| | Q3N90S2D | Aluminium | 2.2 | 3 | 2880 | 4.6 | 7.3 | 5.6 | | 3.4 | | 3.7 | 85.9 | 85.7 | 84.5 | 0.81 | | | 62 |
| | Q3NI00S2C | Aluminium | 3 | 4 | 2913 | 5.7 | 9.8 | 9.8 | | 3.2 | | 4.7 | 87.1 | 87.3 | 85.5 | 0.88 | | | 65 |
| 4 pole 1500 rpm | | | | | | | | | | | | | | | | | | | |
| 230/400V | Q3N80S4C | Aluminium | 0.55 | 0.75 | 1425 | 1.4 | 3.8 | 6.4 | | 3 | | 3.4 | 80.8 | 80.4 | 76.8 | 0.7 | | | 47 |
| | Q3N80S4D | Aluminium | 0.75 | 1.1 | 1425 | 1.9 | 5.1 | 6 | | 2.9 | | 3.2 | 82.5 | 81.5 | 79.1 | 0.72 | | | 48 |
| | Q3N90S4C | Aluminium | 1.1 | 1.5 | 1433 | 2.5 | 7.3 | 6.9 | | 2.9 | | 3.6 | 84.1 | 83.8 | 82.3 | 0.77 | | | 45 |
| | Q3N90L4D | Aluminium | 1.5 | 2.2 | 1433 | 3.4 | 10 | 7.3 | | 3.2 | | 3.9 | 85.3 | 85 | 83.5 | 0.76 | | | 46 |
| | Q3NI00S4C | Aluminium | 2.2 | 3 | 1443 | 4.8 | 14.6 | 8 | | 3.2 | | 3.9 | 86.7 | 85.8 | 84.1 | 0.78 | | | 48 |
| | Q3NI00L4D | Aluminium | 3 | 4 | 1445 | 6.6 | 19.8 | 8 | | 3.3 | | 3.9 | 87.7 | 87.1 | 84.9 | 0.76 | | | 51 |

* According to IEC 60034-2-1

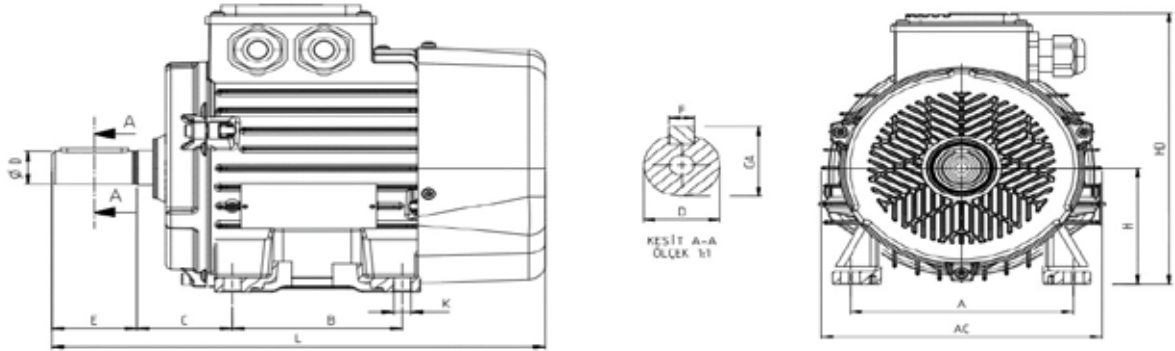
** The sound pressure measurements are taken 1m away from the motor

** Tolerance +3 dBA

IE3 THREE PHASE N SERIES ALUMINIUM MOTORS



DIMENSION - B3



| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | | Shaft | | | | Bearing | | Seal | |
|------------|-----------------|------------|--------------|-----------------|-------|-----|---------------------|-----|-----|-------|----|----|------------------|----|------|------------------|------------|----------------|------------|----------------|
| | | | | AC | L | O | B | A | H | HD | K | C | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side |
| 0.55 | 4 | Q3N80S4C | Aluminium | 156 | 255.7 | M20 | 100 | 125 | 80 | 187 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| 0.75 | 2 | Q3N80S2C | Aluminium | 156 | 255.7 | M20 | 100 | 125 | 80 | 187 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| 0.75 | 4 | Q3N80S4D | Aluminium | 156 | 255.7 | M20 | 100 | 125 | 80 | 187 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| 1.1 | 2 | Q3N80S2D | Aluminium | 156 | 270.5 | M20 | 100 | 125 | 80 | 187 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| 1.1 | 4 | Q3N90S4C | Aluminium | 176 | 290 | M25 | 100 | 140 | 90 | 210 | 10 | 56 | 24 | 50 | 27 | 8 | 6205-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| 1.5 | 2 | Q3N90S2C | Aluminium | 176 | 290 | M25 | 100 | 140 | 90 | 210 | 10 | 56 | 24 | 50 | 27 | 8 | 6205-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| 1.5 | 4 | Q3N90L4D | Aluminium | 176 | 320 | M25 | 125 | 140 | 90 | 210 | 10 | 56 | 24 | 50 | 27 | 8 | 6205-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| 2.2 | 2 | Q3N90S2D | Aluminium | 176 | 290 | M25 | 100 | 140 | 90 | 210 | 10 | 56 | 24 | 50 | 27 | 8 | 6205-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| 2.2 | 4 | Q3N100S4C | Aluminium | 196 | 340 | M25 | 140 | 160 | 100 | 230.5 | 12 | 63 | 28 | 60 | 31 | 8 | 6206-ZZ | 6206-ZZ | 30*47*8 | 30*47*8 |
| 3 | 2 | Q3N100S2C | Aluminium | 196 | 340 | M25 | 140 | 160 | 100 | 230.5 | 12 | 63 | 28 | 60 | 31 | 8 | 6206-ZZ | 6206-ZZ | 30*47*8 | 30*47*8 |
| 3 | 4 | Q3N100L4D | Aluminium | 196 | 370 | M25 | 140 | 160 | 100 | 230.5 | 12 | 63 | 28 | 60 | 31 | 8 | 6206-ZZ | 6206-ZZ | 30*47*8 | 30*47*8 |

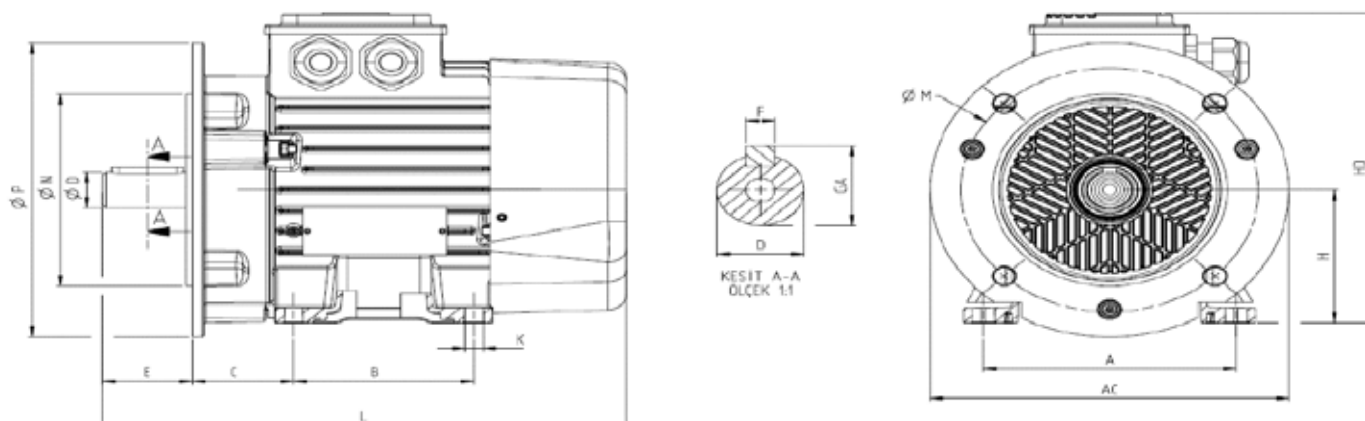
* According to IEC 60034-2-1

** The sound pressure measurements are taken 1m away from the motor

** Tolerance +3 dBA

IE3 THREE PHASE N SERIES ALUMINIUM MOTORS

DIMENSION - B5, B35



| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | Shaft | | | | Bearing | | Seal | | Flange [FA] [B5] | | | | | |
|------------|-----------------|------------|--------------|-----------------|-------|-----|---------------------|-----|-----|-------|----|-------|------------------|----|------|------------------|------------|----------------|------------|------------------|-------|------------------|-----|---|------|
| | | | | AC | L | O | B | A | H | HD | K | C | D ^[1] | E | GA | F ^[2] | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ^[3] | M | R | S |
| 0.55 | 4 | Q3N80S4C | Aluminium | 156 | 255.7 | M20 | 100 | 125 | 80 | 187 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 198 | 130 | 165 | - | 12 |
| 0.75 | 2 | Q3N80S2C | Aluminium | 156 | 255.7 | M20 | 100 | 125 | 80 | 187 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 198 | 130 | 165 | - | 12 |
| 0.75 | 4 | Q3N80S4D | Aluminium | 156 | 255.7 | M20 | 100 | 125 | 80 | 187 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 198 | 130 | 165 | - | 12 |
| 1.1 | 2 | Q3N80S2D | Aluminium | 156 | 255.7 | M20 | 100 | 125 | 80 | 187 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 198 | 130 | 165 | - | 12 |
| 1.1 | 4 | Q3N90S4C | Aluminium | 156 | 255.7 | M20 | 100 | 125 | 80 | 187 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 198 | 130 | 165 | - | 12 |
| 1.5 | 2 | Q3N90S2C | Aluminium | 198.9 | 290 | M25 | 100 | 140 | 90 | 210 | 10 | 56 | 24 | 50 | 27 | 8 | 6205-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 198.9 | 130 | 165 | - | 12 |
| 1.5 | 4 | Q3N90L4D | Aluminium | 198.9 | 290 | M25 | 100 | 140 | 90 | 210 | 10 | 56 | 24 | 50 | 27 | 8 | 6205-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 198.9 | 130 | 165 | - | 12 |
| 2.2 | 2 | Q3N90S2D | Aluminium | 198.9 | 290 | M25 | 100 | 140 | 90 | 210 | 10 | 56 | 24 | 50 | 27 | 8 | 6205-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 198.9 | 130 | 165 | - | 12 |
| 2.2 | 4 | Q3N100S4C | Aluminium | 248.9 | 340 | M25 | 140 | 160 | 100 | 230.5 | 12 | 63 | 28 | 60 | 31 | 8 | 6206-ZZ | 6206-ZZ | 30*47*8 | 30*47*8 | 248.9 | 180 | 215 | - | 14.5 |
| 3 | 2 | Q3N100S2C | Aluminium | 248.9 | 340 | M25 | 140 | 160 | 100 | 230.5 | 12 | 63 | 28 | 60 | 31 | 8 | 6206-ZZ | 6206-ZZ | 30*47*8 | 30*47*8 | 248.9 | 180 | 215 | - | 14.5 |
| 3 | 4 | Q3N100L4D | Aluminium | 248.9 | 370 | M25 | 140 | 160 | 100 | 230.5 | 12 | 63 | 28 | 60 | 31 | 8 | 6206-ZZ | 6206-ZZ | 30*47*8 | 30*47*8 | 248.9 | 180 | 215 | - | 14.5 |

* According to IEC 60034-2-1

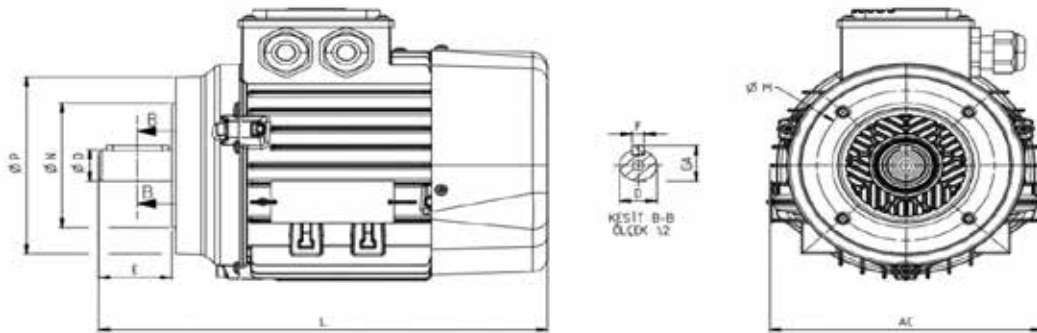
** The sound pressure measurements are taken 1m away from the motor

** Tolerance +3 dBA

IE3 THREE PHASE N SERIES ALUMINIUM MOTORS



DIMENSION - B14a, B34a



| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | | Shaft | | | | Bearing | | Seal | | Flange [FA] [B5] | | | | |
|------------|-----------------|------------|--------------|-----------------|-------|-----|---------------------|-----|-----|-------|----|----|------------------|----|------|------------------|------------|----------------|------------|----------------|------------------|------------------|-----|---|----|
| | | | | AC | L | O | B | A | H | HD | K | C | D ^[1] | E | GA | F ^[2] | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ^[3] | M | R | S |
| 0.55 | 4 | Q3N80S4C | Aluminium | 156 | 255.7 | M20 | 100 | 125 | 80 | 187 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 116.8 | 80 | 100 | - | M6 |
| 0.75 | 2 | Q3N80S2C | Aluminium | 156 | 255.7 | M20 | 100 | 125 | 80 | 187 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 116.8 | 80 | 100 | - | M6 |
| 0.75 | 4 | Q3N80S4D | Aluminium | 156 | 255.7 | M20 | 100 | 125 | 80 | 187 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 116.8 | 80 | 100 | - | M6 |
| 1.1 | 2 | Q3N80S2D | Aluminium | 156 | 255.7 | M20 | 100 | 125 | 80 | 187 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 116.8 | 80 | 100 | - | M6 |
| 1.1 | 4 | Q3N90S4C | Aluminium | 176 | 290 | M25 | 100 | 140 | 90 | 210 | 10 | 56 | 24 | 50 | 27 | 8 | 6205-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 135 | 95 | 115 | - | M8 |
| 1.5 | 2 | Q3N90S2C | Aluminium | 176 | 290 | M25 | 100 | 140 | 90 | 210 | 10 | 56 | 24 | 50 | 27 | 8 | 6205-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 135 | 95 | 115 | - | M8 |
| 1.5 | 4 | Q3N90L4D | Aluminium | 176 | 320 | M25 | 125 | 140 | 90 | 210 | 10 | 56 | 24 | 50 | 27 | 8 | 6205-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 135 | 95 | 115 | - | M8 |
| 2.2 | 2 | Q3N90S2D | Aluminium | 176 | 290 | M25 | 100 | 140 | 90 | 210 | 10 | 56 | 24 | 50 | 27 | 8 | 6205-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 135 | 95 | 115 | - | M8 |
| 2.2 | 4 | Q3N100S4C | Aluminium | 196 | 340 | M25 | 140 | 160 | 100 | 230.5 | 12 | 63 | 28 | 60 | 31 | 8 | 6206-ZZ | 6206-ZZ | 30*47*8 | 30*47*8 | 155 | 110 | 130 | - | M8 |
| 3 | 2 | Q3N100S2C | Aluminium | 196 | 340 | M25 | 140 | 160 | 100 | 230.5 | 12 | 63 | 28 | 60 | 31 | 8 | 6206-ZZ | 6206-ZZ | 30*47*8 | 30*47*8 | 155 | 110 | 130 | - | M8 |
| 3 | 4 | Q3N100L4D | Aluminium | 196 | 370 | M25 | 140 | 160 | 100 | 230.5 | 12 | 63 | 28 | 60 | 31 | 8 | 6206-ZZ | 6206-ZZ | 30*47*8 | 30*47*8 | 155 | 110 | 130 | - | M8 |

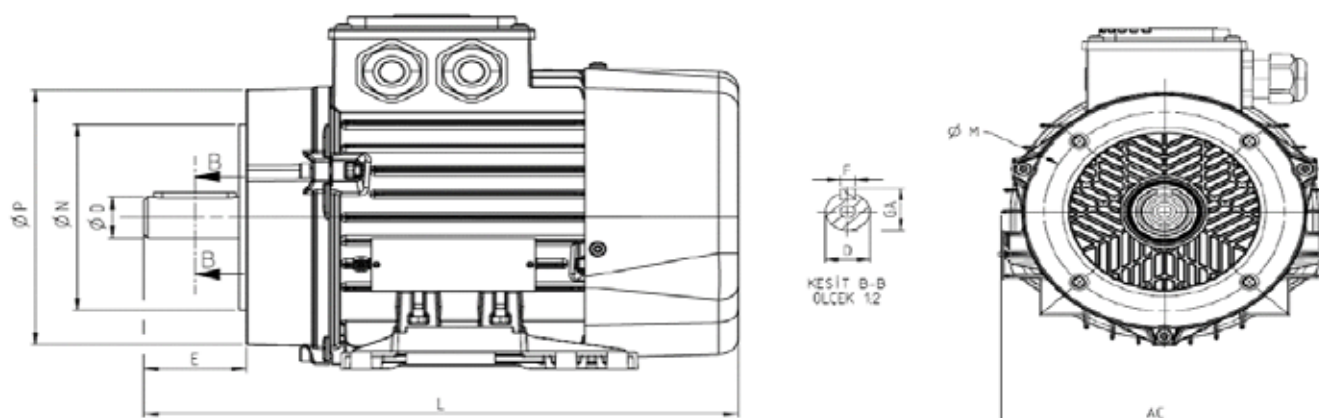
* According to IEC 60034-2-1

** The sound pressure measurements are taken 1m away from the motor

** Tolerance +3 dBA

IE3 THREE PHASE N SERIES ALUMINIUM MOTORS

DIMENSION - B14b, B34b



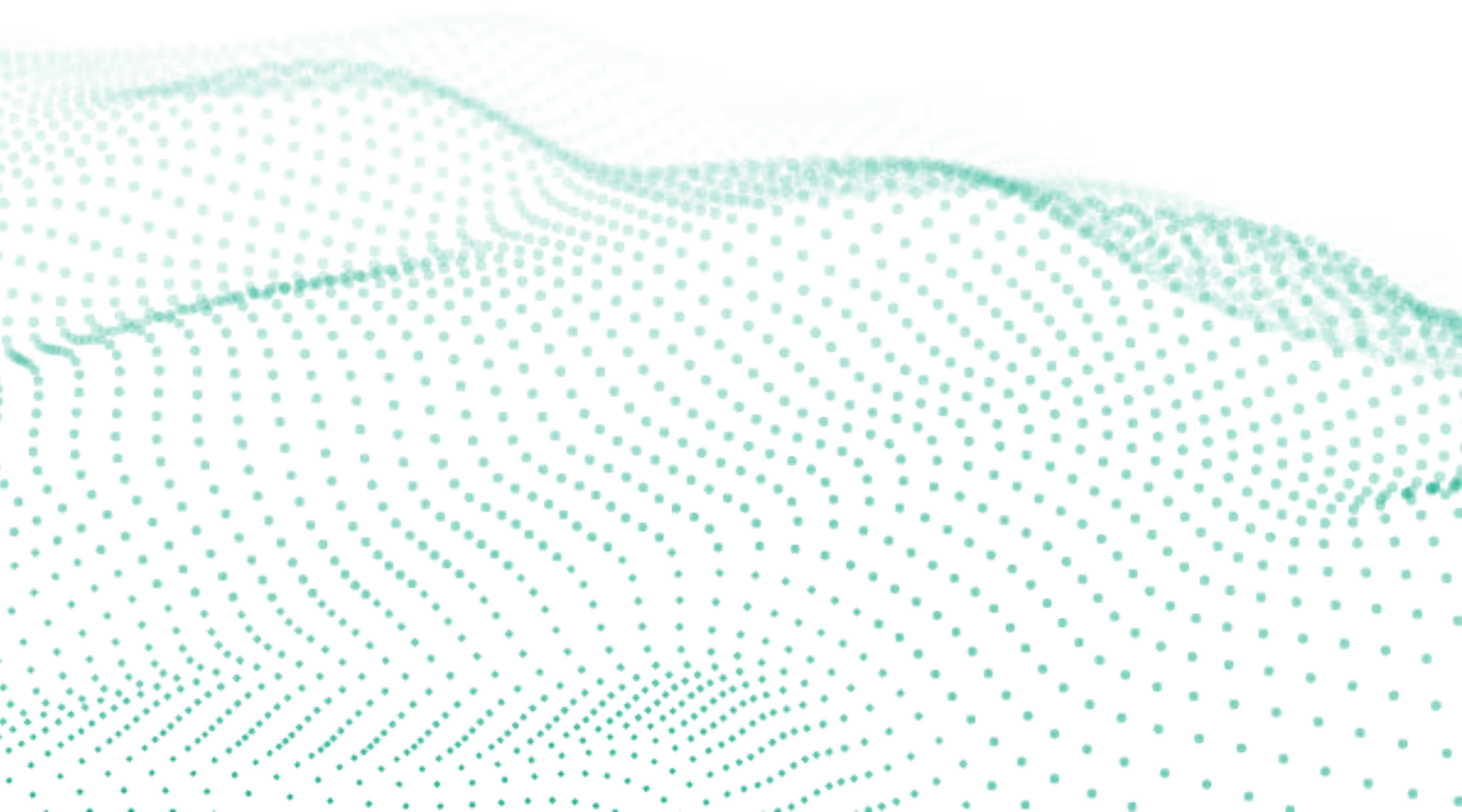
| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | | Shaft | | | | Bearing | | Seal | | Flange [FA] [B5] | | | | |
|------------|-----------------|------------|--------------|-----------------|-----|-----|---------------------|-----|----|-----|----|----|------------------|----|----|------------------|------------|----------------|------------|----------------|------------------|------------------|-----|---|----|
| | | | | AC | L | O | B | A | H | HD | K | C | D ^[1] | E | GA | F ^[2] | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ^[3] | M | R | S |
| 1.1 | 4 | Q3N90S4C40 | Aluminium | 176 | 290 | M25 | 100 | 140 | 90 | 210 | 10 | 56 | 24 | 50 | 27 | 8 | 6205-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 150.4 | 110 | 130 | - | M8 |
| 1.5 | 2 | Q3N90S2C40 | Aluminium | 176 | 290 | M25 | 100 | 140 | 90 | 210 | 10 | 56 | 24 | 50 | 27 | 8 | 6205-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 150.4 | 110 | 130 | - | M8 |
| 1.5 | 4 | Q3N90L4D40 | Aluminium | 176 | 320 | M25 | 125 | 140 | 90 | 210 | 10 | 56 | 24 | 50 | 27 | 8 | 6205-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 150.4 | 110 | 130 | - | M8 |
| 2.2 | 2 | Q3N90S2D40 | Aluminium | 176 | 290 | M25 | 100 | 140 | 90 | 210 | 10 | 56 | 24 | 50 | 27 | 8 | 6205-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 150.4 | 110 | 130 | - | M8 |

* According to IEC 60034-2-1

** The sound pressure measurements are taken 1m away from the motor

** Tolerance +3 dBA

IE2



IE2 THREE PHASE ALUMINIUM MOTORS

ELECTRICAL CHARACTERISTICS AT 50 Hz

| SIZE | MOTOR TYPE | HOUSING TYPE | RATED VALUES | | | | | STARTING VALUES | | | | | Breakdown Torque Ratio | EFFICIENCY * | | | Cosφ | J | Weight [B3] | Sound Pressure Level dBA ** |
|------------------------|------------|--------------|--------------|-------|-------|---------|--------|-----------------|----------|-------------|----------|---------|------------------------|--------------|------|------|------------------|---------|-------------|-----------------------------|
| | | | POWER | | SPEED | CURRENT | TORQUE | CURRENT | | TORQUE | | η % | | | | | | | | |
| | | | kW | HP | rpm | A | Nm | I_a / I_n | Δ | M_a / M_n | Δ | Mk / Mn | 4/4 | 3/4 | 2/4 | 4/4 | kgm ² | kg | | |
| 2 pole 3000 rpm | | | | | | | | | | | | | | | | | | | | |
| 230/400V | | Q2E63M2A | Aluminium | 0.18 | 1/4 | 2810 | 0.4 | 0.6 | 4.7 | - | 2.1 | - | 2.3 | 59.1 | 63.8 | 58.5 | 0.85 | 0.00022 | 5 | 52 |
| | | Q2E63M2B | Aluminium | 0.25 | 1/3 | 2820 | 0.6 | 0.8 | 5.6 | - | 2.7 | - | 2.7 | 64.7 | 66.2 | 63.5 | 0.84 | 0.00025 | 6 | 52 |
| | | Q2E71M2C | Aluminium | 0.37 | 1/2 | 2850 | 0.8 | 1.2 | 8.1 | - | 4.0 | - | 4.2 | 69.5 | 69.6 | 67.3 | 0.8 | 0.00067 | 8 | 54 |
| | | Q2E71M2D | Aluminium | 0.55 | 3/4 | 2880 | 1.2 | 1.8 | 8.2 | - | 4.1 | - | 4.3 | 74.1 | 74.3 | 74.2 | 0.82 | 0.00086 | 10 | 54 |
| | | Q2H80M2B | Aluminium | 0.75 | 1.00 | 2850 | 1.7 | 2.5 | 6.4 | - | 2.8 | - | 3.3 | 77.4 | 77.6 | 74.4 | 0.82 | 0.00111 | 9 | 58 |
| | | Q2H80M2C | Aluminium | 1.10 | 1.50 | 2860 | 2.5 | 3.7 | 6.7 | - | 2.8 | - | 3.3 | 79.6 | 79.8 | 77.0 | 0.81 | 0.00140 | 11 | 58 |
| | C | Q2H80M2D | Aluminium | 1.50 | 2.00 | 2875 | 3.8 | 5.0 | 8.0 | - | 3.9 | - | 4.4 | 81.3 | 80.4 | 76.6 | 0.74 | 0.00169 | 12 | 58 |
| | | Q2HS90S2B | Aluminium | 1.50 | 2.00 | 2875 | 3.8 | 5.0 | 8.0 | - | 3.9 | - | 4.4 | 81.3 | 80.4 | 76.6 | 0.74 | 0.00176 | 13 | 62 |
| | C | Q2H80M2DE | Aluminium | 2.20 | 3.00 | 2870 | 4.7 | 7.3 | 9.1 | - | 3.9 | - | 4.4 | 83.2 | 82.8 | 81.3 | 0.83 | 0.00224 | 16 | 59 |
| | | Q2HS90L2C | Aluminium | 2.20 | 3.00 | 2870 | 4.7 | 7.3 | 9.1 | - | 3.9 | - | 4.4 | 83.2 | 82.8 | 81.3 | 0.83 | 0.00231 | 16 | 62 |
| C | Q2H90L2D | Aluminium | 3.00 | 4.00 | 2887 | 6.3 | 9.9 | 7.3 | - | 2.4 | - | 2.9 | 84.6 | 85.4 | 84.2 | 0.83 | 0.00283 | 19 | 61 | |
| | Q2HS100L2B | Aluminium | 3.00 | 4.00 | 2887 | 6.3 | 9.9 | 7.3 | - | 2.4 | - | 2.9 | 84.6 | 85.4 | 84.2 | 0.83 | 0.00266 | 19 | 66 | |
| 400/690V | SC | Q2H90L2DE | Aluminium | 4.00 | 5.50 | 2913 | 8.2 | 13.2 | 3.6 | 10.8 | 1.4 | 4.2 | 4.8 | 85.8 | 87.0 | 86.1 | 0.82 | 0.00385 | 23 | 67 |
| | C | Q2HS100L2C | Aluminium | 4.00 | 5.50 | 2913 | 8.2 | 13.2 | 3.6 | 10.8 | 1.4 | 4.2 | 4.8 | 85.8 | 87.0 | 86.1 | 0.82 | 0.00381 | 24 | 66 |
| | | Q2HS112M2B | Aluminium | 4.00 | 5.50 | 2900 | 8.0 | 13.2 | 3.1 | 9.3 | 1.1 | 3.2 | 4.0 | 85.8 | 86.1 | 84.5 | 0.85 | 0.00487 | 24 | 68 |
| | SC | Q2H100L2DE | Aluminium | 5.50 | 7.50 | 2910 | 10.6 | 18.1 | 3.6 | 10.9 | 1.3 | 3.8 | 4.5 | 87.0 | 87.5 | 86.2 | 0.86 | 0.00611 | 29 | 62 |
| | C | Q2HS112M2C | Aluminium | 5.50 | 7.50 | 2910 | 10.6 | 18.1 | 3.6 | 10.9 | 1.3 | 3.8 | 4.5 | 87.0 | 87.5 | 86.2 | 0.86 | 0.00637 | 29 | 68 |
| | | Q2HS132S2B | Aluminium | 5.50 | 7.50 | 2915 | 10.6 | 18.0 | 3.5 | 10.6 | 1.5 | 4.4 | 5.3 | 87.0 | 87.1 | 84.9 | 0.86 | 0.00703 | 34 | 69 |
| | SC | Q2H100L2E | Aluminium | 7.50 | 10.00 | 2895 | 14.1 | 24.8 | 3.4 | 10.3 | 1.3 | 3.9 | 4.6 | 88.1 | 89.0 | 88.7 | 0.88 | 0.00724 | 32 | 70 |
| | C | Q2HS112M2D | Aluminium | 7.50 | 10.00 | 2895 | 14.1 | 24.8 | 3.4 | 10.3 | 1.3 | 3.9 | 4.6 | 88.1 | 89.0 | 88.7 | 0.88 | 0.00751 | 30 | 68 |
| | | Q2HS132S2C | Aluminium | 7.50 | 10.00 | 2900 | 14.6 | 24.7 | 3.5 | 10.6 | 1.3 | 3.8 | 4.6 | 88.1 | 88.6 | 87.6 | 0.85 | 0.00772 | 37 | 69 |
| | | Q2H132M2A | Aluminium | 11.00 | 15.00 | 2923 | 21.3 | 35.9 | 3.1 | 9.2 | 1.1 | 3.3 | 4.8 | 89.4 | 89.9 | 88.4 | 0.83 | 0.03489 | 57 | 69 |
| | | Q2HS160M2C | Aluminium | 11.00 | 15.00 | 2923 | 21.2 | 35.9 | 3.1 | 9.2 | 1.1 | 3.3 | 4.8 | 89.4 | 89.9 | 88.4 | 0.83 | 0.03517 | 65 | 70 |
| | C | Q2H132M2B | Aluminium | 15.00 | 20.00 | 2915 | 30.0 | 49.2 | 3.2 | 9.6 | 1.3 | 3.9 | 5.1 | 90.3 | 90.6 | 89.6 | 0.8 | 0.03490 | 65 | 69 |
| | | Q2HS160M2D | Aluminium | 15.00 | 20.00 | 2915 | 30.0 | 49.2 | 3.2 | 9.6 | 1.3 | 3.9 | 5.1 | 90.3 | 90.6 | 89.6 | 0.8 | 0.04015 | 67 | 70 |
| | C | Q2H132M2C | Aluminium | 18.50 | 25.00 | 2930 | 30.8 | 60.3 | 2.7 | 8.0 | 0.6 | 1.9 | 3.6 | 90.9 | 91.7 | 91.1 | 0.95 | 0.04685 | 77 | 70 |
| | | Q2HS160L2A | Aluminium | 18.50 | 25.00 | 2930 | 30.8 | 60.3 | 2.7 | 8.0 | 0.6 | 1.9 | 3.6 | 90.9 | 91.7 | 91.1 | 0.95 | 0.04613 | 79 | 70 |
| | C | Q2H160L2C | Aluminium | 22.00 | 30.00 | 2955 | 40.9 | 71.2 | 3.5 | 10.4 | 1.2 | 3.6 | 5.2 | 91.3 | 92.0 | 90.7 | 0.84 | 0.04808 | 96 | 71 |
| | | Q2HS180M2A | Aluminium | 22.00 | 30.00 | 2955 | 40.9 | 71.2 | 3.5 | 10.6 | 1.2 | 3.6 | 5.2 | 91.3 | 92.0 | 90.7 | 0.84 | 0.05141 | 100 | 77 |
| | SC | Q2H160L2DE | Aluminium | 30.00 | 37.00 | 2940 | 19.6 | 97.4 | 3.0 | 9.1 | 0.8 | 2.3 | 2.8 | 92.0 | 92.8 | 92.1 | 0.94 | 0.06270 | 108 | 80 |
| | C | Q2H180M2B | Aluminium | 30.00 | 37.00 | 2955 | 51.5 | 97.1 | 2.8 | 8.5 | 0.8 | 2.4 | 3.6 | 92.0 | 92.5 | 91.8 | 0.91 | 0.08643 | 128 | 77 |
| | | Q2H200L2B | Aluminium | 30.00 | 40.00 | 2955 | 51.5 | 97.1 | 2.8 | 8.5 | 0.8 | 2.4 | 3.6 | 92.0 | 92.5 | 91.8 | 0.91 | 0.08644 | 175 | 78 |
| | C | Q2H180M2C | Aluminium | 37.00 | 50.00 | 2965 | 66.2 | 119.6 | 3.4 | 10.1 | 1.0 | 3.1 | 4.5 | 92.5 | 92.5 | 91.2 | 0.87 | 0.10277 | 145 | 77 |
| | | Q2H200L2C | Aluminium | 37.00 | 50.00 | 2965 | 66.2 | 119.6 | 3.4 | 10.1 | 1.0 | 3.1 | 4.5 | 92.5 | 92.5 | 91.2 | 0.87 | 0.10277 | 175 | 78 |
| | SC | Q2H180L2D | Aluminium | 45.00 | 60.00 | 2958 | 76.0 | 145.1 | 3.3 | 9.8 | 0.9 | 2.8 | 5.3 | 92.9 | 93.4 | 92.7 | 0.92 | 0.11383 | 162 | 76 |
| | C | Q2H200L2D | Aluminium | 45.00 | 60.00 | 2960 | 76.0 | 145.1 | 3.3 | 9.8 | 0.9 | 2.8 | 5.3 | 92.9 | 93.4 | 92.7 | 0.92 | 0.11910 | 166 | 78 |
| | | Q2E225M2A | Aluminium | 45.00 | 60.00 | 2960 | 82.1 | 145.2 | 2.9 | 8.7 | 0.8 | 2.4 | 2.9 | 92.9 | 92.6 | 91.1 | 0.85 | 0.23500 | 235 | 81 |
| | SC | Q2H200L2E | Aluminium | 55.00 | 75.00 | 2960 | 90.7 | 177.4 | 3.1 | 9.3 | 0.7 | 2.0 | 4.2 | 93.2 | 93.3 | 92.8 | 0.93 | 0.10988 | 194 | 77 |
| C | Q2E225M2C | Aluminium | 55.00 | 75.00 | 2970 | 96.6 | 176.9 | 3.5 | 10.6 | 1.0 | 3.0 | 7.1 | 93.2 | 93.7 | 92.4 | 0.88 | 0.29500 | 244 | 80 | |
| | Q2E225M2A | Aluminium | 55.00 | 75.00 | 2975 | 93.9 | 176.5 | 3.3 | 9.8 | 1.0 | 3.0 | 5.3 | 93.2 | 93.1 | 92.4 | 0.89 | 0.42083 | 254 | 81 | |

* According to IEC 60034-2-1

** The sound pressure measurements are taken 1m away from the motor

** Tolerance +3 dBA

IE2 THREE PHASE ALUMINIUM MOTORS



| SIZE | MOTOR TYPE | HOUSING TYPE | RATED VALUES | | | | | STARTING VALUES | | | | Breakdown Torque Ratio | EFFICIENCY * | | | Cosφ | J | Weight [B3] | Sound Pressure Level dBA ** | | |
|-----------------|------------|--------------|--------------|-----------|-------|---------|--------|-----------------|-----------|----------|-------------|------------------------|--------------|--------|------|------|---------|-------------|-----------------------------|-----|----|
| | | | POWER | | SPEED | CURRENT | TORQUE | CURRENT | | TORQUE | | | η % | | | | | | | | |
| | | | kW | HP | rpm | A | Nm | I_A / I_N | λ | Δ | M_A / M_N | λ | Δ | Mk/ Mn | 4/4 | 3/4 | 2/4 | 4/4 | kgm ² | kg | |
| 4 pole 1500 rpm | | | | | | | | | | | | | | | | | | | | | |
| 230/400V | | Q2E63M4A | Aluminium | 0.12 | 1/6 | 1420 | 0.5 | 0.9 | 3.4 | - | 2.2 | - | 3.2 | 64.0 | 54.1 | 44.9 | 0.56 | 0.00022 | 5 | 41 | |
| | | Q2E63M4B | Aluminium | 0.18 | 1/4 | 1400 | 0.6 | 1.2 | 3.7 | - | 2.7 | - | 3.0 | 68.0 | 60.0 | 51.3 | 0.66 | 0.00026 | 6 | 41 | |
| | | Q2E71M4C | Aluminium | 0.25 | 1/3 | 1415 | 0.6 | 1.7 | 4.6 | - | 2.6 | - | 3.8 | 68.5 | 68.8 | 66.9 | 0.7 | 0.00095 | 9 | 45 | |
| | | Q2E71M4D | Aluminium | 0.37 | 1/2 | 1425 | 1.1 | 2.5 | 4.6 | - | 2.6 | - | 3.8 | 72.7 | 73.1 | 72.0 | 0.71 | 0.00095 | 9 | 45 | |
| | | Q2H80M4B | Aluminium | 0.55 | 3/4 | 1435 | 1.3 | 3.6 | 6.4 | - | 2.3 | - | 3.2 | 77.1 | 78.8 | 75.4 | 0.76 | 0.00175 | 10 | 49 | |
| | | Q2H80M4C | Aluminium | 0.75 | 1.00 | 1440 | 1.8 | 5.0 | 5.5 | - | 2.1 | - | 2.6 | 79.6 | 80.0 | 77.7 | 0.76 | 0.00216 | 11 | 49 | |
| | C | | Q2H80M4D | Aluminium | 1.10 | 1.50 | 1430 | 2.5 | 7.4 | 5.7 | - | 2.2 | - | 2.6 | 81.4 | 82.4 | 81.6 | 0.8 | 0.00260 | 12 | 48 |
| | | Q2HS90S4B | Aluminium | 1.10 | 1.50 | 1430 | 2.5 | 7.4 | 5.7 | - | 2.2 | - | 2.6 | 81.4 | 82.4 | 81.6 | 0.8 | 0.00267 | 13 | 54 | |
| | C | | Q2H80M4DE | Aluminium | 1.50 | 2.00 | 1427 | 3.3 | 10.0 | 6.4 | - | 2.5 | - | 3.1 | 82.8 | 84.2 | 83.7 | 0.79 | 0.00306 | 14 | 48 |
| | | Q2HS90L4C | Aluminium | 1.50 | 2.00 | 1427 | 3.3 | 10.0 | 6.4 | - | 2.5 | - | 3.1 | 82.8 | 84.2 | 83.7 | 0.79 | 0.00328 | 15 | 54 | |
| | C | | Q2H90L4D | Aluminium | 2.20 | 3.00 | 1437 | 5.3 | 14.6 | 7.6 | - | 3.6 | - | 4.2 | 84.3 | 84.1 | 81.5 | 0.72 | 0.00526 | 18 | 52 |
| | | Q2HS100L4B | Aluminium | 2.20 | 3.00 | 1437 | 5.3 | 14.6 | 7.6 | - | 3.6 | - | 4.2 | 84.3 | 84.1 | 81.5 | 0.72 | 0.00521 | 21 | 55 | |
| C | | Q2H90L4DE | Aluminium | 3.00 | 4.00 | 1440 | 7.4 | 20.0 | 6.5 | - | 3.3 | - | 3.7 | 85.5 | 85.3 | 83.0 | 0.7 | 0.00690 | 25 | 53 | |
| | Q2HS100L4C | Aluminium | 3.00 | 4.00 | 1440 | 7.4 | 20.0 | 6.5 | - | 3.3 | - | 3.7 | 85.5 | 85.3 | 83.0 | 0.7 | 0.00694 | 25 | 55 | | |
| 400/690V | C | | Q2H100L4D | Aluminium | 4.00 | 5.50 | 1440 | 8.7 | 26.6 | 2.7 | 8.0 | 1.1 | 3.2 | 86.6 | 85.7 | 83.5 | 0.78 | 0.01058 | 31 | 57 | |
| | | Q2HS112M4C | Aluminium | 4.00 | 5.50 | 1440 | 8.7 | 26.6 | 2.7 | 8.0 | 1.1 | 3.2 | 86.6 | 85.7 | 83.5 | 0.78 | 0.01085 | 31 | 58 | | |
| | C | | Q2H112M4D | Aluminium | 5.50 | 7.50 | 1445 | 11.6 | 35.5 | 2.7 | 8.0 | 1.0 | 3.0 | 87.7 | 88.3 | 87.3 | 0.79 | 0.01382 | 38 | 58 | |
| | | Q2HS132S4A | Aluminium | 5.50 | 7.50 | 1445 | 11.5 | 35.5 | 2.7 | 8.0 | 1.0 | 3.0 | 87.7 | 88.3 | 87.3 | 0.79 | 0.01414 | 38 | 59 | | |
| | | Q2H132M4C | Aluminium | 7.50 | 10.00 | 1460 | 15.0 | 49.1 | 2.4 | 7.1 | 0.5 | 1.5 | 0.6 | 88.7 | 89.4 | 88.7 | 0.82 | 0.03560 | 54 | 62 | |
| | C | | Q2H132M4D | Aluminium | 11.00 | 15.00 | 1468 | 21.6 | 71.5 | 2.6 | 7.9 | 0.7 | 2.1 | 3.6 | 89.8 | 91.1 | 90.3 | 0.81 | 0.05440 | 76 | 61 |
| | | Q2HS160M4B | Aluminium | 11.00 | 15.00 | 1468 | 21.6 | 71.5 | 2.6 | 7.9 | 0.7 | 2.1 | 3.6 | 89.8 | 91.1 | 90.3 | 0.81 | 0.05468 | 79 | 63 | |
| | C | | Q2H132M4E | Aluminium | 15.00 | 20.00 | 1462 | 29.8 | 98.0 | 2.6 | 7.8 | 0.6 | 1.8 | 3.4 | 90.6 | 91.4 | 90.9 | 0.8 | 0.05940 | 81 | 63 |
| | | Q2HS160L4A | Aluminium | 15.00 | 20.00 | 1462 | 29.8 | 98.0 | 2.6 | 7.8 | 0.6 | 1.8 | 3.4 | 90.6 | 91.4 | 90.9 | 0.8 | 0.05940 | 83 | 63 | |
| | C | | Q2H160L4B | Aluminium | 18.50 | 25.00 | 1470 | 36.0 | 120.2 | 2.3 | 6.8 | 0.7 | 2.2 | 2.9 | 91.2 | 92.0 | 91.6 | 0.81 | 0.09005 | 101 | 57 |
| | | Q2HS180M4A | Aluminium | 18.50 | 25.00 | 1470 | 36.0 | 120.2 | 2.3 | 6.8 | 0.7 | 2.2 | 2.9 | 91.2 | 92.0 | 91.6 | 0.81 | 0.10513 | 110 | 67 | |
| | C | | Q2H160L4C | Aluminium | 22.00 | 30.00 | 1462 | 41.8 | 143.8 | 1.8 | 5.5 | 0.6 | 1.9 | 2.8 | 91.6 | 92.9 | 93.3 | 0.84 | 0.11068 | 115 | 58 |
| | | Q2HS180L4B | Aluminium | 22.00 | 30.00 | 1462 | 41.8 | 143.8 | 1.8 | 5.5 | 0.6 | 1.9 | 2.8 | 91.6 | 92.9 | 93.3 | 0.84 | 0.11398 | 118 | 67 | |
| | C | | Q2H180L4C | Aluminium | 30.00 | 40.00 | 1475 | 55.3 | 194.6 | 2.7 | 8.2 | 0.9 | 2.7 | 3.5 | 92.0 | 91.9 | 91.4 | 0.85 | 0.14694 | 143 | 70 |
| | | Q2H200L4C | Aluminium | 30.00 | 40.00 | 1475 | 55.3 | 194.6 | 2.7 | 8.2 | 0.9 | 2.7 | 3.5 | 92.0 | 91.9 | 91.4 | 0.85 | 0.18660 | 195 | 70 | |
| | SC | | Q2H180L4A | Aluminium | 37.00 | 40.00 | 1476 | 72.5 | 240.8 | 2.8 | 8.3 | 0.9 | 2.7 | 3.7 | 92.7 | 93.2 | 92.8 | 0.79 | 0.22165 | 194 | 70 |
| | C | | Q2H200L4D | Aluminium | 37.00 | 50.00 | 1476 | 72.5 | 240.8 | 2.8 | 8.3 | 0.9 | 2.8 | 3.7 | 92.7 | 93.2 | 92.8 | 0.79 | 0.26440 | 177 | 71 |
| | | Q2E225M4A | Aluminium | 37.00 | 50.00 | 1480 | 68.3 | 238.8 | 3.0 | 9.1 | 1.2 | 3.6 | 4.0 | 92.7 | 92.6 | 91.3 | 0.84 | 0.36420 | 263 | 71 | |
| | Q2E225M4B | Aluminium | 45.00 | 60.00 | 1480 | 81.5 | 290.5 | 3.1 | 9.4 | 1.2 | 3.7 | 3.0 | 93.1 | 93.0 | 91.9 | 0.85 | 0.43500 | 280 | 71 | | |

ELECTRICAL CHARACTERISTICS AT 50 Hz

| SIZE | MOTOR TYPE | HOUSING TYPE | RATED VALUES | | | | | STARTING VALUES | | | | Breakdown Torque Ratio | EFFICIENCY * | | | Cosφ | J | Weight [B3] | Sound Pressure Level dBA ** |
|-----------------|------------|--------------|--------------|-------|-------|---------|--------|-----------------|----------|-------------|----------|------------------------|--------------|------|------|------|------------------|-------------|-----------------------------|
| | | | POWER | | SPEED | CURRENT | TORQUE | CURRENT | | TORQUE | | | η % | | | | | | |
| | | | kW | HP | rpm | A | Nm | I_A / I_N | Δ | M_A / M_N | Δ | Mk/ Mn | 4/4 | 3/4 | 2/4 | 4/4 | kgm ² | kg | |
| 6 pole 1000 rpm | | | | | | | | | | | | | | | | | | | |
| 230/400V | Q2H90S6B | Aluminium | 0.75 | 1.00 | 943 | 1.8 | 7.7 | 4.6 | - | 2.1 | - | 2.7 | 75.9 | 75.1 | 71.4 | 0.69 | 0.00383 | 16 | 53 |
| | Q2H90L6C | Aluminium | 1.10 | 1.50 | 938 | 3.0 | 11.2 | 2.8 | - | 2.4 | - | 2.8 | 78.1 | 78.0 | 75.1 | 0.69 | 0.00464 | 18 | 53 |
| | Q2H100L6C | Aluminium | 1.50 | 2.00 | 955 | 4.0 | 15.2 | 3.3 | - | 2.6 | - | 3.2 | 79.8 | 79.3 | 76.3 | 0.67 | 0.00871 | 26 | 56 |
| | Q2H112M6C | Aluminium | 2.20 | 3.00 | 942 | 5.4 | 22.4 | 5.2 | - | 2.0 | - | 2.6 | 81.8 | 81.5 | 79.5 | 0.72 | 0.00936 | 31 | 58 |
| 400/690V | Q2H132M6A | Aluminium | 3.00 | 4.00 | 965 | 14.1 | 29.8 | 1.8 | 5.4 | 1.1 | 3.2 | 3.3 | 83.3 | 82.3 | 79.4 | 0.64 | 0.02950 | 47 | 62 |
| | Q2H132M6B | Aluminium | 4.00 | 5.50 | 970 | 10.4 | 39.8 | 1.9 | 5.8 | 0.7 | 2.2 | 2.6 | 84.6 | 83.5 | 80.7 | 0.65 | 0.03560 | 53 | 61 |
| | Q2H132M6C | Aluminium | 5.50 | 7.50 | 960 | 12.8 | 54.7 | 1.7 | 5.2 | 0.9 | 2.6 | 2.9 | 86.1 | 85.7 | 83.9 | 0.72 | 0.06420 | 67 | 60 |
| | Q2H160M6B | Aluminium | 7.50 | 10.00 | 970 | 18.9 | 74.6 | 2.1 | 6.2 | 1.2 | 3.6 | 3.8 | 87.2 | 84.3 | 81.7 | 0.66 | 0.07540 | 88 | 63 |
| | Q2H160L6C | Aluminium | 11.00 | 15.00 | 970 | 25.5 | 109.4 | 1.7 | 5.2 | 1.0 | 3.0 | 3.1 | 88.7 | 88.5 | 86.3 | 0.71 | 0.07040 | 99 | 63 |
| | Q2H180L6A | Aluminium | 15.00 | 20.00 | 970 | 31.5 | 146.9 | 1.8 | 5.1 | 0.6 | 1.8 | 2.0 | 89.7 | 89.5 | 87.3 | 0.76 | 0.16677 | 115 | 69 |
| | Q2H200L6B | Aluminium | 18.50 | 25.00 | 981 | 41.6 | 179.8 | 2.0 | 5.9 | 0.7 | 2.1 | 2.6 | 90.4 | 90.5 | 89.6 | 0.7 | 0.18660 | 160 | 70 |
| | Q2H200L6C | Aluminium | 22.00 | 30.00 | 982 | 48.8 | 214.5 | 1.8 | 5.6 | 0.8 | 2.3 | 2.4 | 90.9 | 91.0 | 90.3 | 0.72 | 0.20643 | 171 | 70 |
| | Q2E225M6B | Aluminium | 30.00 | 40.00 | 975 | 57.0 | 287.6 | 1.9 | 5.7 | 0.6 | 1.7 | 2.5 | 91.7 | 91.6 | 90.7 | 0.83 | 0.49334 | 234 | 66 |

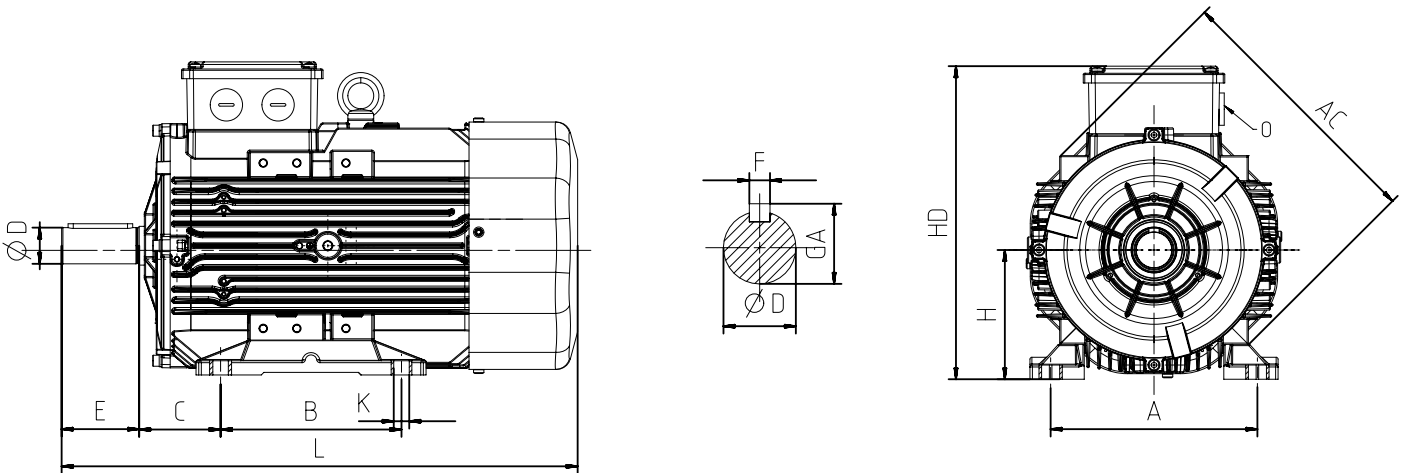
* According to IEC 60034-2-1

** The sound pressure measurements are taken 1m away from the motor

** Tolerance +3 dBA

IE2 THREE PHASE ALUMINIUM MOTORS

DIMENSION - B3



| SIZE | Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | | Shaft | | | Bearing | | Seal | | |
|------|------------|-----------------|------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|----|----|------------------|----|------|------------------|------------|----------------|------------|----------------|
| | | | | | AC | L | O | B | A | H | HD | K | C | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side |
| | 0.12 | 4 | Q2E63M4A | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 40 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 |
| | 0.18 | 2 | Q2E63M2A | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 40 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 |
| | 0.18 | 4 | Q2E63M4B | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 40 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 |
| | 0.25 | 2 | Q2E63M2B | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 40 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 |
| | 0.25 | 4 | Q2E71M4C | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 45 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 |
| | 0.37 | 2 | Q2E71M2C | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 45 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 |
| | 0.37 | 4 | Q2E71M4D | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 45 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 |
| | 0.55 | 2 | Q2E71M2D | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 45 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 |
| | 0.55 | 4 | Q2H80M4B | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| | 0.75 | 2 | Q2H80M2B | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| | 0.75 | 4 | Q2H80M4C | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| | 0.75 | 6 | Q2H90S6B | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| | 1.1 | 2 | Q2H80M2C | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| C | 1.1 | 4 | Q2H80M4D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| | 1.1 | 4 | Q2HS90S4B | Aluminium | 158 | 278 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 |
| | 1.1 | 6 | Q2H90L6C | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| C | 1.5 | 2 | Q2H80M2D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| | 1.5 | 2 | Q2HS90S2B | Aluminium | 158 | 278 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 |
| C | 1.5 | 4 | Q2H80M4DE | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| | 1.5 | 4 | Q2HS90L4C | Aluminium | 158 | 303 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 |
| | 1.5 | 6 | Q2H100L6C | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 |
| C | 2.2 | 2 | Q2H80M2DE | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| | 2.2 | 2 | Q2HS90L2C | Aluminium | 158 | 303 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 |
| C | 2.2 | 4 | Q2H90L4D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| | 2.2 | 4 | Q2HS100L4B | Aluminium | 172 | 349 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 |
| | 2.2 | 6 | Q2H112M6C | Aluminium | 210 | 396 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 |
| C | 3 | 2 | Q2H90L2D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| | 3 | 2 | Q2HS100L2B | Aluminium | 172 | 349 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 |
| C | 3 | 4 | Q2H90L4DE | Aluminium | 172 | 379 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| | 3 | 4 | Q2HS100L4C | Aluminium | 172 | 384 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 |
| | 3 | 6 | Q2H132M6A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 |

(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) According to DIN 6885



| SIZE | Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | | Shaft | | | | Bearing | | Seal | |
|------|------------|-----------------|------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|------|-----|------------------|-----|------|------------------|------------|----------------|------------|----------------|
| | | | | | AC | L | O | B | A | H | HD | K | C | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side |
| SC | 4 | 2 | Q2H90L2DE | Aluminium | 172 | 379 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| C | 4 | 2 | Q2HS100L2C | Aluminium | 172 | 384 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 |
| | 4 | 2 | Q2HS112M2B | Aluminium | 191 | 399 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 |
| C | 4 | 4 | Q2HI00L4D | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 |
| | 4 | 4 | Q2HS112M4C | Aluminium | 191 | 399 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 |
| | 4 | 6 | Q2HI32M6B | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 |
| SC | 5.5 | 2 | Q2HI00L2DE | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 |
| C | 5.5 | 2 | Q2HS112M2C | Aluminium | 191 | 399 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 |
| | 5.5 | 2 | Q2HS132S2B | Aluminium | 210 | 422 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 |
| C | 5.5 | 4 | Q2HI12M4D | Aluminium | 210 | 421 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 |
| | 5.5 | 4 | Q2HS132S4A | Aluminium | 210 | 422 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 |
| | 5.5 | 6 | Q2HI32M6C | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 |
| SC | 7.5 | 2 | Q2HI00L2E | Aluminium | 191 | 422 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 |
| C | 7.5 | 2 | Q2HS112M2D | Aluminium | 191 | 421 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 |
| | 7.5 | 2 | Q2HS132S2C | Aluminium | 210 | 422 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 |
| | 7.5 | 4 | Q2HI32M4C | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 |
| | 7.5 | 6 | Q2HI60M6B | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 |
| C | 11 | 2 | Q2HI32M2A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 |
| | 11 | 2 | Q2HS160M2C | Aluminium | 260 | 520 | 1xM32 | 210-254 | 254 | 160 | 351 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6208-ZZ | 45*72*10 | 40*62*10 |
| C | 11 | 4 | Q2HI32M4D | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 |
| | 11 | 4 | Q2HS160M4B | Aluminium | 260 | 520 | 1xM32 | 210-254 | 254 | 160 | 351 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6208-ZZ | 45*72*10 | 40*62*10 |
| | 11 | 6 | Q2HI60L6C | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 |
| C | 15 | 2 | Q2HI32M2B | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 |
| | 15 | 2 | Q2HS160M2D | Aluminium | 260 | 520 | 1xM32 | 210-254 | 254 | 160 | 351 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6208-ZZ | 45*72*10 | 40*62*10 |
| C | 15 | 4 | Q2HI32M4E | Aluminium | 260 | 539 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 |
| | 15 | 4 | Q2HS160L4A | Aluminium | 260 | 520 | 1xM32 | 210-254 | 254 | 160 | 351 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6208-ZZ | 45*72*10 | 40*62*10 |
| | 15 | 6 | Q2HI80L6A | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 |
| C | 18.5 | 2 | Q2HI32M2C | Aluminium | 260 | 539 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 89 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 |
| | 18.5 | 2 | Q2HS160L2A | Aluminium | 260 | 520 | 1xM32 | 210-254 | 254 | 160 | 351 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6208-ZZ | 45*72*10 | 40*62*10 |
| C | 18.5 | 4 | Q2HI60L4B | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 |
| | 18.5 | 4 | Q2HS180M4A | Aluminium | 305 | 596 | 1xM32 | 241-279 | 279 | 180 | 398 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6209-ZZ | 50*80*10 | 45*72*10 |
| | 18.5 | 6 | Q2H200L6B | Aluminium | 349 | 706 | 1xM50 | 305 | 318 | 200 | 455 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 |
| C | 22 | 2 | Q2HI60L2C | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 |
| | 22 | 2 | Q2HS180M2A | Aluminium | 305 | 596 | 1xM32 | 241-279 | 279 | 180 | 398 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6209-ZZ | 50*80*10 | 45*72*10 |
| C | 22 | 4 | Q2HI60L4C | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 |
| | 22 | 4 | Q2HS180L4B | Aluminium | 305 | 596 | 1xM32 | 241-279 | 279 | 180 | 398 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6209-ZZ | 50*80*10 | 45*72*10 |
| | 22 | 6 | Q2H200L6C | Aluminium | 349 | 706 | 1xM50 | 267-305 | 318 | 200 | 455 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 |

IE2 THREE PHASE ALUMINIUM MOTORS



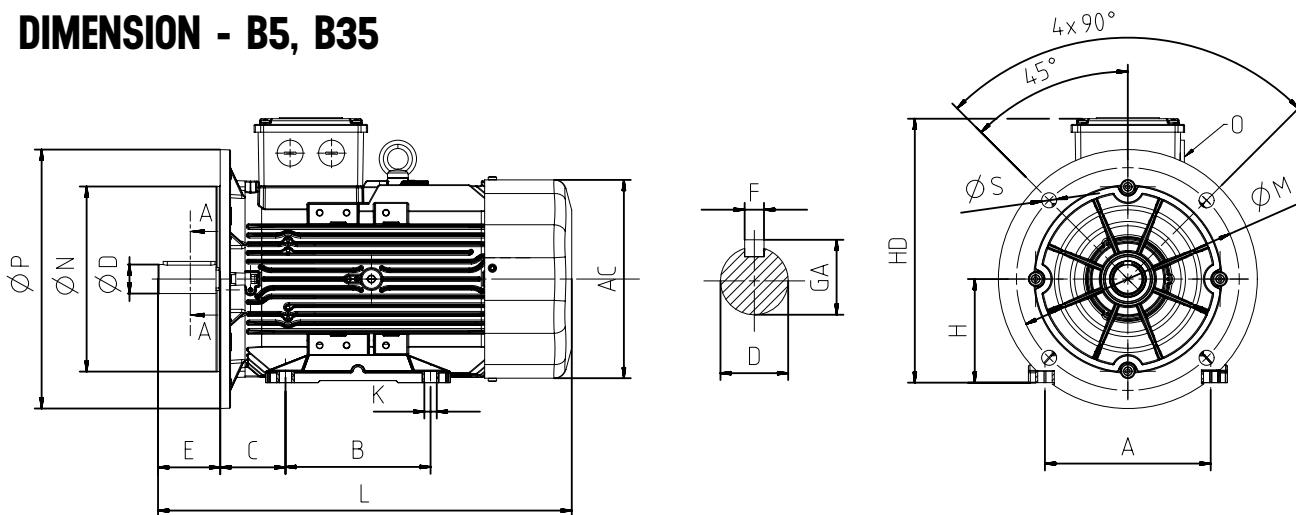
| SIZE | Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | | Shaft | | | | Bearing | | Seal | |
|------|------------|-----------------|------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|------|-----|------------------|-----|------|------------------|------------|----------------|------------|----------------|
| | | | | | AC | L | O | B | A | H | HD | K | C | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side |
| SC | 30 | 2 | Q2H160L2DE | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 |
| C | 30 | 2 | Q2H180M2B | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 |
| | 30 | 2 | Q2H200L2B | Aluminium | 349 | 706 | 1xM50 | 267-305 | 318 | 200 | 455 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 |
| C | 30 | 4 | Q2H180L4C | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 |
| | 30 | 4 | Q2H200L4C | Aluminium | 349 | 706 | 1xM50 | 267-305 | 318 | 200 | 455 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 |
| | 30 | 6 | Q2E225M6B | Aluminium | 456 | 765 | 1xM50 | 286-311 | 356 | 225 | 485 | 18.5 | 149 | 60 | 140 | 64 | 18 | 6313-ZZ | 6313-ZZ | 65*100*13 | 65*100*13 |
| C | 37 | 2 | Q2H180M2C | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 |
| | 37 | 2 | Q2H200L2C | Aluminium | 349 | 706 | 1xM50 | 305 | 318 | 200 | 455 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 |
| SC | 37 | 4 | Q2H180L4A | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 398 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 |
| C | 37 | 4 | Q2H200L4D | Aluminium | 349 | 759 | 1xM50 | 267-305 | 318 | 200 | 455 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 |
| | 37 | 4 | Q2E225M4A | Aluminium | 456 | 765 | 1xM50 | 286-311 | 356 | 225 | 485 | 18.5 | 149 | 60 | 140 | 64 | 18 | 6313-ZZ | 6313-ZZ | 65*100*13 | 65*100*13 |
| SC | 45 | 2 | Q2H180L2D | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 |
| C | 45 | 2 | Q2H200L2D | Aluminium | 349 | 759 | 1xM50 | 267-305 | 318 | 200 | 455 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 |
| | 45 | 2 | Q2E225M2A | Aluminium | 456 | 735 | 1xM50 | 286-311 | 356 | 225 | 485 | 18.5 | 149 | 55 | 110 | 59 | 16 | 6313-ZZ | 6313-ZZ | 65*100*13 | 65*100*13 |
| | 45 | 4 | Q2E225M4B | Aluminium | 456 | 765 | 1xM50 | 286-311 | 356 | 225 | 485 | 18.5 | 149 | 60 | 140 | 64 | 18 | 6313-ZZ | 6313-ZZ | 65*100*13 | 65*100*13 |
| SC | 55 | 2 | Q2H200L2E | Aluminium | 349 | 759 | 1xM50 | 267-305 | 318 | 200 | 455 | 22.5 | 133 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 50*80*10 |
| C | 55 | 2 | Q2E225M2C | Aluminium | 456 | 735 | 1xM50 | 286-311 | 356 | 225 | 485 | 18.5 | 149 | 55 | 110 | 59 | 16 | 6313-ZZ | 6313-ZZ | 65*100*13 | 65*100*13 |
| | 55 | 2 | Q2E250M2A | Aluminium | 527 | 886 | 2*M50 | 349 | 406 | 250 | 615 | 24 | 149 | 60 | 140 | 64 | 18 | 6315-ZZ | 6313-ZZ | 75*112*12 | 65*100*13 |

(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) According to DIN 6885

IE2 THREE PHASE ALUMINIUM MOTORS

DIMENSION - B5, B35



| SIZE | Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | Shaft | | | Bearing | | Seal | | Flange [FA] [B5] | | | | | |
|------|------------|-----------------|------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|----|------------------|----|------|------------------|------------|----------------|------------|------------------|-----|------------------|-----|---|------|
| | | | | | AC | L | O | B | A | H | HD | K | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ⁽³⁾ | M | R | S |
| C | 0.12 | 4 | Q2E63M4A | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 140 | 95 | 115 | - | 10 |
| | 0.18 | 2 | Q2E63M2A | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 140 | 95 | 115 | - | 10 |
| | 0.18 | 4 | Q2E63M4B | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 140 | 95 | 115 | - | 10 |
| | 0.25 | 2 | Q2E63M2B | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 140 | 95 | 115 | - | 10 |
| | 0.25 | 4 | Q2E71M4C | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 160 | 110 | 130 | - | 10 |
| | 0.37 | 2 | Q2E71M2C | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 160 | 110 | 130 | - | 10 |
| | 0.37 | 4 | Q2E71M4D | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 160 | 110 | 130 | - | 10 |
| | 0.55 | 2 | Q2E71M2D | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 160 | 110 | 130 | - | 10 |
| | 0.55 | 4 | Q2H80M4B | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| | 0.75 | 2 | Q2H80M2B | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| | 0.75 | 4 | Q2H80M4C | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| | 0.75 | 6 | Q2H90S6B | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 12 |
| | 1.1 | 2 | Q2H80M2C | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| C | 1.1 | 4 | Q2H80M4D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| | 1.1 | 4 | Q2HS90S4B | Aluminium | 158 | 278 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| | 1.1 | 6 | Q2H90L6C | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 12 |
| C | 1.5 | 2 | Q2H80M2D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| | 1.5 | 2 | Q2HS90S2B | Aluminium | 158 | 278 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| C | 1.5 | 4 | Q2H80M4DE | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| | 1.5 | 4 | Q2HS90L4C | Aluminium | 158 | 303 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| | 1.5 | 6 | Q2H100L6C | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| C | 2.2 | 2 | Q2H80M2DE | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| | 2.2 | 2 | Q2HS90L2C | Aluminium | 158 | 303 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| C | 2.2 | 4 | Q2H90L4D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 12 |
| | 2.2 | 4 | Q2HS100L4B | Aluminium | 172 | 349 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 250 | 180 | 215 | - | 14.5 |
| | 2.2 | 6 | Q2H112M6C | Aluminium | 210 | 396 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| C | 3 | 2 | Q2H90L2D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 12 |
| | 3 | 2 | Q2HS100L2B | Aluminium | 172 | 349 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 250 | 180 | 215 | - | 14.5 |
| C | 3 | 4 | Q2H90L4DE | Aluminium | 172 | 379 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 12 |
| | 3 | 4 | Q2HS100L4C | Aluminium | 172 | 384 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 250 | 180 | 215 | - | 14.5 |
| | 3 | 6 | Q2H132M6A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| SC | 4 | 2 | Q2H90L2DE | Aluminium | 172 | 379 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 12 |
| C | 4 | 2 | Q2HS100L2C | Aluminium | 172 | 384 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 250 | 180 | 215 | - | 14.5 |
| | 4 | 2 | Q2HS112M2B | Aluminium | 191 | 399 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 250 | 180 | 215 | - | 14.5 |
| C | 4 | 4 | Q2H100L4D | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| | 4 | 4 | Q2HS112M4C | Aluminium | 191 | 399 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 250 | 180 | 215 | - | 14.5 |

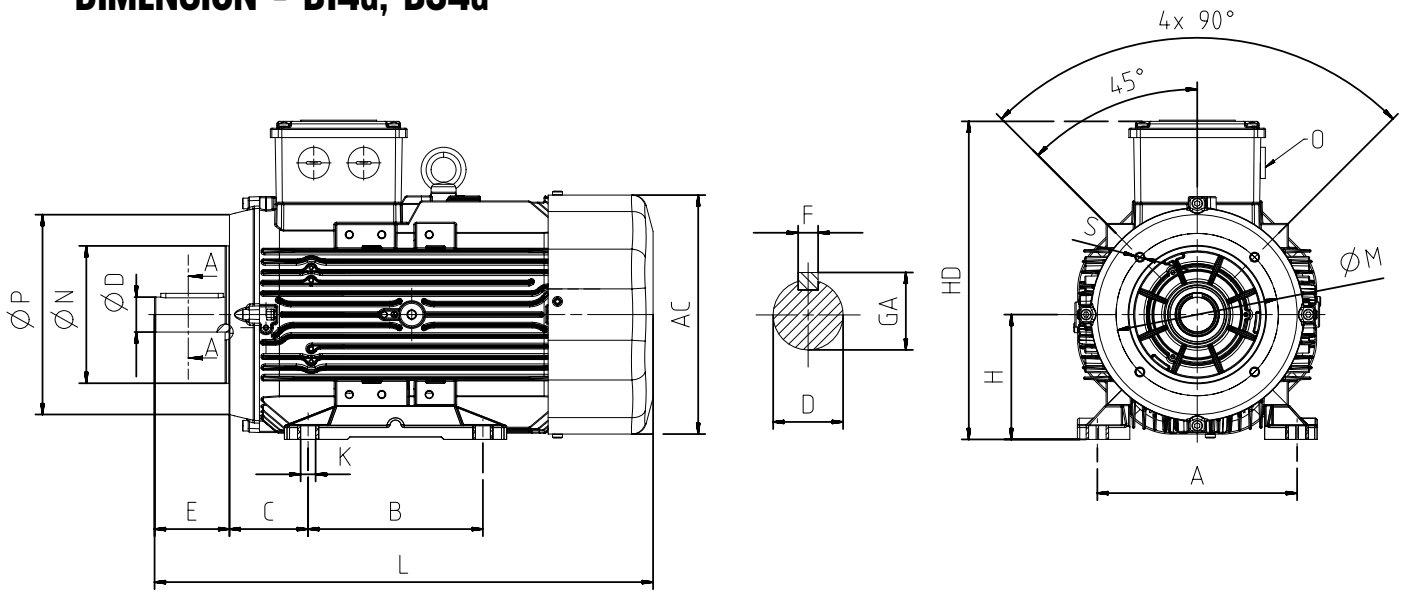
(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm
 (2) According to DIN 6885
 (3) Tolerance DIN EN 50347 "j6"

IE2 THREE PHASE ALUMINIUM MOTORS



| SIZE | Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | Shaft | | | | Bearing | | Seal | | Flange [FA] [B5] | | | | |
|------|------------|-----------------|------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|------|------------------|-----|------|------------------|------------|----------------|------------|----------------|------------------|------------------|-----|---|------|
| | | | | | AC | L | O | B | A | H | HD | K | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ⁽³⁾ | M | R | S |
| | 4 | 6 | Q2HI32M6B | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| SC | 5.5 | 2 | Q2HI00L2DE | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| C | 5.5 | 2 | Q2HS112M2C | Aluminium | 191 | 399 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 250 | 180 | 215 | - | 14.5 |
| | 5.5 | 2 | Q2HS132S2B | Aluminium | 210 | 422 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 | 300 | 230 | 265 | - | 14.5 |
| C | 5.5 | 4 | Q2HI12M4D | Aluminium | 210 | 421 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| | 5.5 | 4 | Q2HS132S4A | Aluminium | 210 | 422 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 | 300 | 230 | 265 | - | 14.5 |
| | 5.5 | 6 | Q2HI32M6C | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| SC | 7.5 | 2 | Q2HI00L2E | Aluminium | 191 | 422 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| C | 7.5 | 2 | Q2HS112M2D | Aluminium | 191 | 421 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 250 | 180 | 215 | - | 14.5 |
| | 7.5 | 2 | Q2HS132S2C | Aluminium | 210 | 422 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 | 300 | 230 | 265 | - | 14.5 |
| | 7.5 | 4 | Q2HI32M4C | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| | 7.5 | 6 | Q2HI60M6B | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| C | 11 | 2 | Q2HI32M2A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| | 11 | 2 | Q2HS160M2C | Aluminium | 260 | 520 | 1xM32 | 210-254 | 254 | 160 | 351 | 14.5 | 42 | 110 | 45 | 12 | 6309-ZZ | 6208-ZZ | 45*72*10 | 40*62*10 | 350 | 250 | 300 | - | 18.5 |
| C | 11 | 4 | Q2HI32M4D | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| | 11 | 4 | Q2HS160M4B | Aluminium | 260 | 520 | 1xM32 | 210-254 | 254 | 160 | 351 | 14.5 | 42 | 110 | 45 | 12 | 6309-ZZ | 6208-ZZ | 45*72*10 | 40*62*10 | 350 | 250 | 300 | - | 18.5 |
| | 11 | 6 | Q2HI60L6C | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| C | 15 | 2 | Q2HI32M2B | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| | 15 | 2 | Q2HS160M2D | Aluminium | 260 | 520 | 1xM32 | 210-254 | 254 | 160 | 351 | 14.5 | 42 | 110 | 45 | 12 | 6309-ZZ | 6208-ZZ | 45*72*10 | 40*62*10 | 350 | 250 | 300 | - | 18.5 |
| C | 15 | 4 | Q2HI32M4E | Aluminium | 260 | 539 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| | 15 | 4 | Q2HS160L4A | Aluminium | 260 | 520 | 1xM32 | 210-254 | 254 | 160 | 351 | 14.5 | 42 | 110 | 45 | 12 | 6309-ZZ | 6208-ZZ | 45*72*10 | 40*62*10 | 350 | 250 | 300 | - | 18.5 |
| | 15 | 6 | Q2HI80L6A | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 | 350 | 250 | 300 | - | 18.5 |
| C | 18.5 | 2 | Q2HI32M2C | Aluminium | 260 | 539 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| | 18.5 | 2 | Q2HS160L2A | Aluminium | 260 | 520 | 1xM32 | 210-254 | 254 | 160 | 351 | 14.5 | 42 | 110 | 45 | 12 | 6309-ZZ | 6208-ZZ | 45*72*10 | 40*62*10 | 350 | 250 | 300 | - | 18.5 |
| C | 18.5 | 4 | Q2HI60L4B | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| | 18.5 | 4 | Q2HS180M4A | Aluminium | 305 | 596 | 1xM32 | 241-279 | 279 | 180 | 398 | 14.5 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6209-ZZ | 50*80*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| | 18.5 | 6 | Q2H200L6B | Aluminium | 349 | 706 | 1xM50 | 305 | 318 | 200 | 455 | 18.5 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 | 400 | 300 | 350 | - | 18.5 |
| C | 22 | 2 | Q2HI60L2C | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| | 22 | 2 | Q2HS180M2A | Aluminium | 305 | 596 | 1xM32 | 241-279 | 279 | 180 | 398 | 14.5 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6209-ZZ | 50*80*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| C | 22 | 4 | Q2HI60L4C | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| | 22 | 4 | Q2HS180L4B | Aluminium | 305 | 596 | 1xM32 | 241-279 | 279 | 180 | 398 | 14.5 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6209-ZZ | 50*80*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| | 22 | 6 | Q2H200L6C | Aluminium | 349 | 706 | 1xM50 | 267-305 | 318 | 200 | 455 | 18.5 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 | 400 | 300 | 350 | - | 18.5 |
| SC | 30 | 2 | Q2HI60L2DE | Aluminium | 305 | 591 | 1xM32 | 210-254 | 254 | 160 | 368 | 14.5 | 42 | 110 | 45 | 12 | 6309-ZZ | 6209-ZZ | 45*72*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| C | 30 | 2 | Q2HI80M2B | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 | 350 | 250 | 300 | - | 18.5 |
| | 30 | 2 | Q2H200L2B | Aluminium | 349 | 706 | 1xM50 | 267-305 | 318 | 200 | 455 | 18.5 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 | 400 | 300 | 350 | - | 18.5 |
| C | 30 | 4 | Q2HI80L4C | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 | 350 | 250 | 300 | - | 18.5 |
| | 30 | 4 | Q2H200L4C | Aluminium | 349 | 706 | 1xM50 | 267-305 | 318 | 200 | 455 | 18.5 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 | 400 | 300 | 350 | - | 18.5 |
| | 30 | 6 | Q2E225M6B | Aluminium | 456 | 765 | 1xM50 | 286-311 | 356 | 225 | 485 | 18.5 | 60 | 140 | 64 | 18 | 6313-ZZ | 6313-ZZ | 65*100*13 | 65*100*13 | 450 | 350 | 400 | - | 18.5 |
| C | 37 | 2 | Q2HI80M2C | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 | 350 | 250 | 300 | - | 18.5 |
| | 37 | 2 | Q2H200L2C | Aluminium | 349 | 706 | 1xM50 | 267-305 | 318 | 200 | 455 | 18.5 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 | 400 | 300 | 350 | - | 18.5 |
| SC | 37 | 4 | Q2HI80L4A | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 398 | 14.5 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 | 350 | 250 | 300 | - | 18.5 |
| C | 37 | 4 | Q2H200L4D | Aluminium | 349 | 759 | 1xM50 | 267-305 | 318 | 200 | 455 | 18.5 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 | 400 | 300 | 350 | - | 18.5 |
| | 37 | 4 | Q2E225M4A | Aluminium | 456 | 765 | 1xM50 | 286-311 | 356 | 225 | 485 | 18.5 | 60 | 140 | 64 | 18 | 6313-ZZ | 6313-ZZ | 65*100*13 | 65*100*13 | 450 | 350 | 400 | - | 18.5 |
| SC | 45 | 2 | Q2HI80L2D | Aluminium | 349 | 696 | 1xM40 | 241-279 | 279 | 180 | 437 | 14.5 | 48 | 110 | 51.5 | 14 | 6310-ZZ | 6310-ZZ | 50*80*10 | 50*80*10 | 350 | 250 | 300 | - | 18.5 |
| C | 45 | 2 | Q2H200L2D | Aluminium | 349 | 759 | 1xM50 | 267-305 | 318 | 200 | 455 | 18.5 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 60*90*10 | 400 | 300 | 350 | - | 18.5 |
| | 45 | 2 | Q2E225M2A | Aluminium | 456 | 735 | 1xM50 | 286-311 | 356 | 225 | 485 | 18.5 | 55 | 110 | 59 | 16 | 6313-ZZ | 6313-ZZ | 65*100*13 | 65*100*13 | 450 | 350 | 400 | - | 18.5 |
| | 45 | 4 | Q2E225M4B | Aluminium | 456 | 765 | 1xM50 | 286-311 | 356 | 225 | 485 | 18.5 | 60 | 140 | 64 | 18 | 6313-ZZ | 6313-ZZ | 65*100*13 | 65*100*13 | 450 | 350 | 400 | - | 18.5 |
| SC | 55 | 2 | Q2H200L2E | Aluminium | 349 | 759 | 1xM50 | 267-305 | 318 | 200 | 455 | 22.5 | 55 | 110 | 59 | 16 | 6312-ZZ | 6310-ZZ | 60*90*10 | 50*80*10 | 400 | 300 | 350 | - | 18.5 |
| C | 55 | 2 | Q2E225M2C | Aluminium | 456 | 735 | 1xM50 | 286-311 | 356 | 225 | 485 | 18.5 | 55 | 110 | 59 | 16 | 6313-ZZ | 6313-ZZ | 65*100*13 | 65*100*13 | 450 | 350 | 400 | - | 18.5 |
| | 55 | 2 | Q2E250M2A | Aluminium | 527 | 886 | 2*M50 | 349 | 406 | 250 | 615 | 24 | 60 | 140 | 18 | 64 | 6315-ZZ | 6313-ZZ | 75*112*12 | 65*100*13 | 550 | 450 | 500 | - | 18.5 |

DIMENSION - B14a, B34a



| SIZE | Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | Shaft | | | | Bearing | | Seal | | Flange [FC] [B14a] | | | | | |
|------|------------|-----------------|------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|-------|------------------|----|------|------------------|------------|----------------|------------|--------------------|-----|------------------|-----|---|-----|
| | | | | | AC | L | O | B | A | H | HD | K | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ⁽³⁾ | M | R | S |
| | 0.12 | 4 | Q2E63M4A | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 90 | 60 | 75 | - | M5 |
| | 0.18 | 2 | Q2E63M2A | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 90 | 60 | 75 | - | M5 |
| | 0.18 | 4 | Q2E63M4B | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 90 | 60 | 75 | - | M5 |
| | 0.25 | 2 | Q2E63M2B | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 90 | 60 | 75 | - | M5 |
| | 0.25 | 4 | Q2E71M4C | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 105 | 70 | 85 | - | M6 |
| | 0.37 | 2 | Q2E71M2C | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 105 | 70 | 85 | - | M6 |
| | 0.37 | 4 | Q2E71M4D | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 105 | 70 | 85 | - | M6 |
| | 0.55 | 2 | Q2E71M2D | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 105 | 70 | 85 | - | M6 |
| | 0.55 | 4 | Q2H80M4B | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| | 0.75 | 2 | Q2H80M2B | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| | 0.75 | 4 | Q2H80M4C | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| | 0.75 | 6 | Q2H90S6B | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| | 1.1 | 2 | Q2H80M2C | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| C | 1.1 | 4 | Q2H80M4D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| | 1.1 | 4 | Q2HS90S4B | Aluminium | 158 | 278 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 | 140 | 95 | 115 | - | M8 |
| | 1.1 | 6 | Q2H90L6C | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| C | 1.5 | 2 | Q2H80M2D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| | 1.5 | 2 | Q2HS90S2B | Aluminium | 158 | 278 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 | 140 | 95 | 115 | - | M8 |
| C | 1.5 | 4 | Q2H80M4DE | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| | 1.5 | 4 | Q2HS90L4C | Aluminium | 158 | 303 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 | 140 | 95 | 115 | - | M8 |
| | 1.5 | 6 | Q2H100L6C | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| C | 2.2 | 2 | Q2H80M2DE | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| | 2.2 | 2 | Q2HS90L2C | Aluminium | 158 | 303 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 | 140 | 95 | 115 | - | M8 |
| C | 2.2 | 4 | Q2H90L4D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| | 2.2 | 4 | Q2HS100L4B | Aluminium | 172 | 349 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| | 2.2 | 6 | Q2H112M6C | Aluminium | 210 | 396 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| C | 3 | 2 | Q2H90L2D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| | 3 | 2 | Q2HS100L2B | Aluminium | 172 | 349 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| C | 3 | 4 | Q2H90L4DE | Aluminium | 172 | 379 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| | 3 | 4 | Q2HS100L4C | Aluminium | 172 | 384 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| | 3 | 6 | Q2H132M6A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |

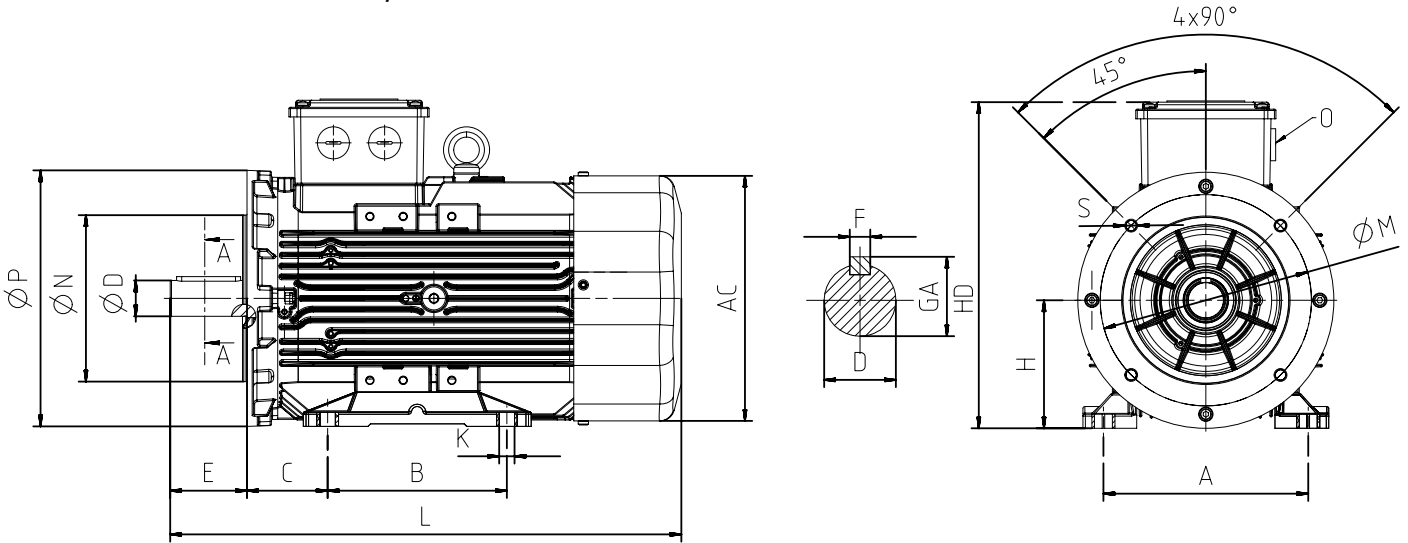
(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm
 (2) According to DIN 6885
 (3) Tolerance DIN EN 50347 "j6"

IE2 THREE PHASE ALUMINIUM MOTORS



| SIZE | Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | Shaft | | | | Bearing | | Seal | | Flange [FC] [B14a] | | | | |
|------|------------|-----------------|------------|--------------|-----------------|-------|-------|---------------------|-----|-----|-----|----|------------------|----|----|------------------|------------|----------------|------------|----------------|--------------------|------------------|-----|---|-----|
| | | | | | AC | L | O | B | A | H | HD | K | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ⁽³⁾ | M | R | S |
| SC | 4 | 2 | Q2H90L2DE | Aluminium | 172 | 378.5 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| C | 4 | 2 | Q2HS100L2C | Aluminium | 172 | 384 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| | 4 | 2 | Q2HS112M2B | Aluminium | 191 | 399 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| C | 4 | 4 | Q2HI00L4D | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| | 4 | 4 | Q2HS112M4C | Aluminium | 191 | 399 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| | 4 | 6 | Q2HI32M6B | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |
| SC | 5.5 | 2 | Q2HI00L2DE | Aluminium | 191 | 399.5 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| C | 5.5 | 2 | Q2HS112M2C | Aluminium | 191 | 399 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| | 5.5 | 2 | Q2HS132S2B | Aluminium | 210 | 422 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| C | 5.5 | 4 | Q2HI12M4D | Aluminium | 210 | 421 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| | 5.5 | 4 | Q2HS132S4A | Aluminium | 210 | 422 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| | 5.5 | 6 | Q2HI32M6C | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |
| SC | 7.5 | 2 | Q2HI00L2E | Aluminium | 191 | 422 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| C | 7.5 | 2 | Q2HS112M2D | Aluminium | 191 | 421 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| | 7.5 | 2 | Q2HS132S2C | Aluminium | 210 | 422 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| | 7.5 | 4 | Q2HI32M4C | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |
| C | 11 | 2 | Q2HI32M2A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |
| C | 11 | 4 | Q2HI32M4D | Aluminium | 260 | 539 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |
| C | 15 | 2 | Q2HI32M2B | Aluminium | 260 | 539 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |
| C | 15 | 4 | Q2HI32M4E | Aluminium | 260 | 539 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |
| C | 18.5 | 2 | Q2HI32M2C | Aluminium | 260 | 539 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 200 | 130 | 165 | - | M10 |

DIMENSION - B14b, B34b



| SIZE | Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | Shaft | | | | Bearing | | Seal | | Flange [FC] (B14a) | | | | |
|------|------------|-----------------|------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|----|------------------|----|------|------------------|------------|----------------|------------|----------------|--------------------|------------------|-----|---|-----|
| | | | | | AC | L | O | B | A | H | HD | K | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ⁽³⁾ | M | R | S |
| | 0.12 | 4 | Q2E63M4A | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 120 | 80 | 100 | - | M6 |
| | 0.18 | 2 | Q2E63M2A | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 120 | 80 | 100 | - | M6 |
| | 0.18 | 4 | Q2E63M4B | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 120 | 80 | 100 | - | M6 |
| | 0.25 | 2 | Q2E63M2B | Aluminium | 123 | 220 | 1xM20 | 80 | 100 | 63 | 162 | 7 | 11 | 23 | 12.5 | 4 | 6201-ZZ | 6201-ZZ | 12*22*7 | 12*22*7 | 120 | 80 | 100 | - | M6 |
| | 0.25 | 4 | Q2E71M4C | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 140 | 95 | 115 | - | M8 |
| | 0.37 | 2 | Q2E71M2C | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 140 | 95 | 115 | - | M8 |
| | 0.37 | 4 | Q2E71M4D | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 140 | 95 | 115 | - | M8 |
| | 0.55 | 2 | Q2E71M2D | Aluminium | 138 | 253 | 1xM20 | 90 | 112 | 71 | 190 | 7 | 14 | 30 | 16 | 5 | 6202-ZZ | 6202-ZZ | 15*24*5 | 15*24*5 | 140 | 95 | 115 | - | M8 |
| | 0.55 | 4 | Q2H80M4B | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| | 0.75 | 2 | Q2H80M2B | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| | 0.75 | 4 | Q2H80M4C | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| | 0.75 | 6 | Q2H90S6B | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| | 1.1 | 2 | Q2H80M2C | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| C | 1.1 | 4 | Q2H80M4D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| | 1.1 | 4 | Q2HS90S4B | Aluminium | 158 | 278 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| | 1.1 | 6 | Q2H90L6C | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| C | 1.5 | 2 | Q2H80M2D | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| | 1.5 | 2 | Q2HS90S2B | Aluminium | 158 | 278 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| C | 1.5 | 4 | Q2H80M4DE | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| | 1.5 | 4 | Q2HS90L4C | Aluminium | 158 | 303 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| | 1.5 | 6 | Q2HI00L6C | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| C | 2.2 | 2 | Q2H80M2DE | Aluminium | 158 | 268 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| | 2.2 | 2 | Q2HS90L2C | Aluminium | 158 | 303 | 1xM25 | 100-125 | 140 | 90 | 213 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6204-ZZ | 25*40*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| C | 2.2 | 4 | Q2H90L4D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| | 2.2 | 4 | Q2HS100L4B | Aluminium | 172 | 349 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 200 | 130 | 165 | - | M10 |
| | 2.2 | 6 | Q2HI12M6C | Aluminium | 210 | 396 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| C | 3 | 2 | Q2H90L2D | Aluminium | 172 | 344 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| | 3 | 2 | Q2HS100L2B | Aluminium | 172 | 349 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 200 | 130 | 165 | - | M10 |
| C | 3 | 4 | Q2H90L4DE | Aluminium | 172 | 379 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| | 3 | 4 | Q2HS100L4C | Aluminium | 172 | 384 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 200 | 130 | 165 | - | M10 |
| | 3 | 6 | Q2HI32M6A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |

(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

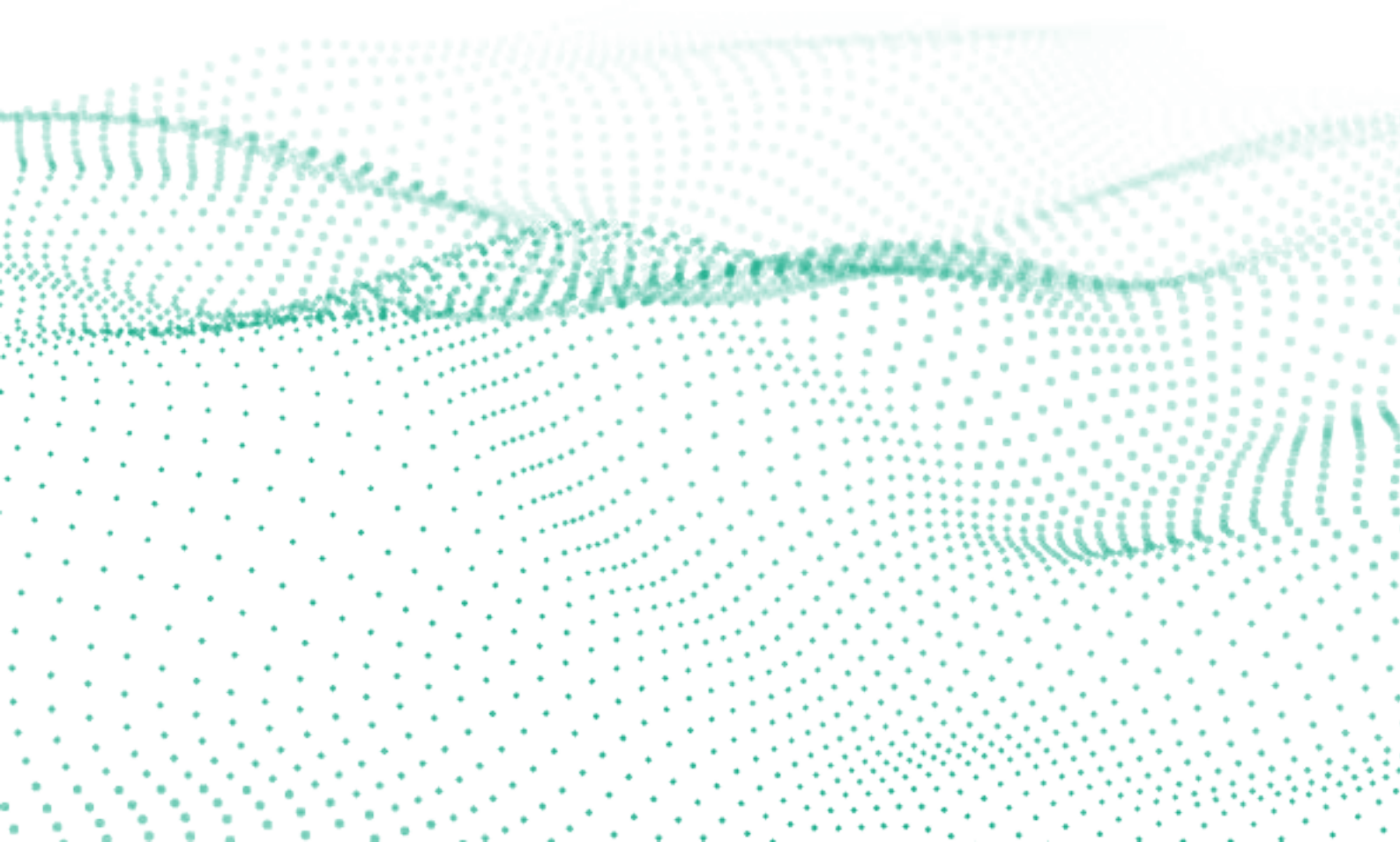
(2) According to DIN 6885

(3) Tolerance DIN EN 50347 "j6"

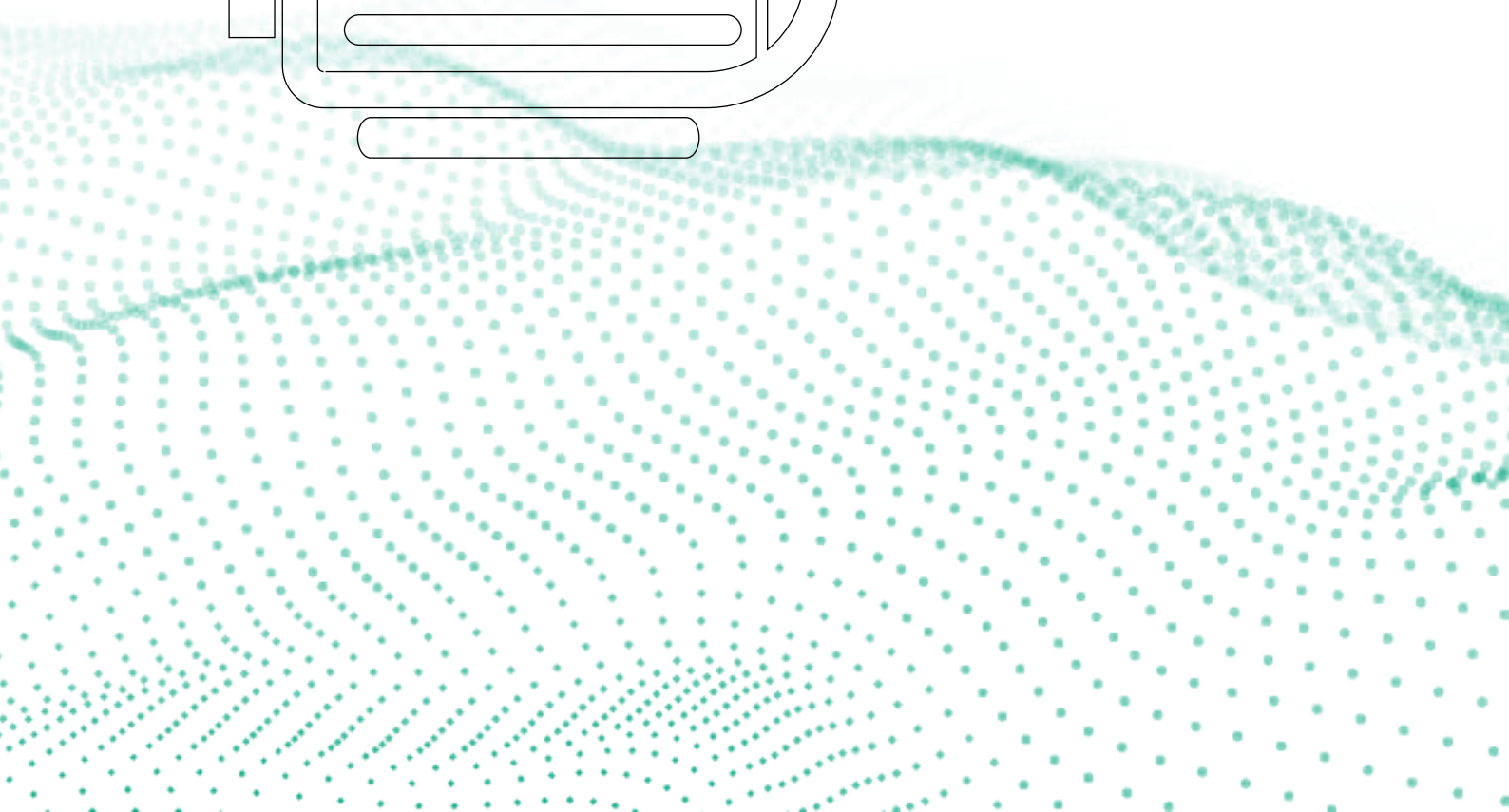
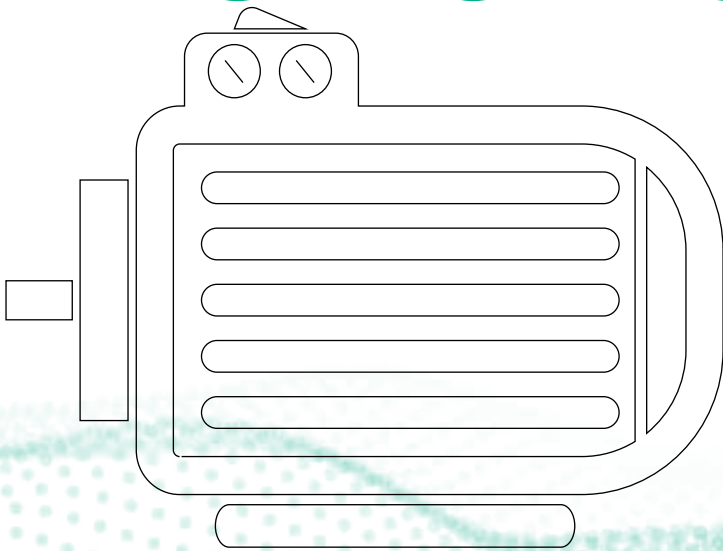
IE2 THREE PHASE ALUMINIUM MOTORS



| SIZE | Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | Shaft | | | | Bearing | | Seal | | Flange [FC] [B14a] | | | | |
|------|------------|-----------------|------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|----|------------------|----|----|------------------|------------|----------------|------------|----------------|--------------------|------------------|-----|---|-----|
| | | | | | AC | L | O | B | A | H | HD | K | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ⁽³⁾ | M | R | S |
| SC | 4 | 2 | Q2H90L2DE | Aluminium | 172 | 379 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| C | 4 | 2 | Q2HS100L2C | Aluminium | 172 | 384 | 1xM25 | 140 | 160 | 100 | 233 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 200 | 130 | 165 | - | M10 |
| | 4 | 2 | Q2HS112M2B | Aluminium | 191 | 399 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 200 | 130 | 165 | - | M10 |
| C | 4 | 4 | Q2HI00L4D | Aluminium | 191 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| | 4 | 4 | Q2HS112M4C | Aluminium | 191 | 399 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 200 | 130 | 165 | - | M10 |
| SC | 4 | 6 | Q2HI32M6B | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |
| | 5.5 | 2 | Q2HI00L2DE | Aluminium | 192 | 400 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| C | 5.5 | 2 | Q2HS112M2C | Aluminium | 191 | 399 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 200 | 130 | 165 | - | M10 |
| | 5.5 | 2 | Q2HS132S2B | Aluminium | 210 | 422 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 | 250 | 180 | 215 | - | M12 |
| C | 5.5 | 4 | Q2HI12M4D | Aluminium | 210 | 421 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| | 5.5 | 4 | Q2HS132S4A | Aluminium | 210 | 422 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 | 250 | 180 | 215 | - | M12 |
| | 5.5 | 6 | Q2HI32M6C | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |
| SC | 7.5 | 2 | Q2HI00L2E | Aluminium | 192 | 422 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| C | 7.5 | 2 | Q2HS112M2D | Aluminium | 191 | 421 | 1xM25 | 140 | 190 | 112 | 254 | 12 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 200 | 130 | 165 | - | M10 |
| | 7.5 | 2 | Q2HS132S2C | Aluminium | 210 | 422 | 1xM25 | 140-178 | 216 | 132 | 283 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6206-ZZ | 40*62*10 | 30*47*7 | 250 | 180 | 215 | - | M12 |
| C | 7.5 | 4 | Q2HI32M4C | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |
| | 11 | 2 | Q2HI32M2A | Aluminium | 260 | 481 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |
| C | 11 | 4 | Q2HI32M4D | Aluminium | 260 | 539 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |
| C | 15 | 2 | Q2HI32M2B | Aluminium | 260 | 539 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |
| C | 15 | 4 | Q2HI32M4E | Aluminium | 260 | 539 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |
| C | 18.5 | 2 | Q2HI32M2C | Aluminium | 260 | 539 | 1xM32 | 140-178 | 216 | 132 | 312 | 12 | 38 | 80 | 41 | 10 | 6208-ZZ | 6208-ZZ | 40*62*10 | 40*62*10 | 250 | 180 | 215 | - | M12 |



THREE PHASE CAST IRON MOTORS





IE3 THREE PHASE CAST IRON MOTORS

ELECTRICAL CHARACTERISTICS AT 50 Hz

| MOTOR TYPE | HOUSING TYPE | RATED VALUES | | | | | STARTING VALUES | | | | | Break-down Torque Ratio | EFFICIENCY * | | | Cosφ | J | Weight [B3] | Sound Pressure Level [dB] ** |
|------------------------|--------------|--------------|--------|-------|---------|--------|-----------------|----------|-------------|----------|---------|-------------------------|--------------|-------|-------|----------|---------|-------------|------------------------------|
| | | POWER | | SPEED | CURRENT | TORQUE | CURRENT | | TORQUE | | | | η % | | | | | | |
| | | kW | HP | rpm | A | Nm | I_A / I_N | Δ | M_A / M_N | Δ | Mk / Mn | | 4/4 | 3/4 | 2/4 | | | | |
| 2 pole 3000 rpm | | | | | | | | | | | | | | | | | | | |
| 230/400V | Q3HG80M2C | Cast Iron | 0.75 | 1 | 2890 | 1.6 | 2.5 | 8.2 | - | 3.3 | - | 4.0 | 80.7 | 79.5 | 75.8 | 0.82 | 0.00140 | 19 | 57 |
| | Q3HG80M2D | Cast Iron | 1.10 | 1.5 | 2900 | 2.4 | 3.6 | 7.4 | - | 3.5 | - | 4.3 | 82.7 | 80.2 | 76.4 | 0.81 | 0.00170 | 22 | 57 |
| | Q3HG90L2C | Cast Iron | 1.50 | 2 | 2930 | 3.1 | 4.9 | 9.5 | - | 3.0 | - | 4.9 | 84.2 | 86.2 | 84.2 | 0.84 | 0.00249 | 26 | 62 |
| | Q3HG90L2D | Cast Iron | 2.20 | 3 | 2917 | 4.3 | 7.2 | 9.2 | - | 3.1 | - | 4.9 | 85.9 | 86.4 | 85.2 | 0.87 | 0.00283 | 30 | 62 |
| | Q3HG100L2D | Cast Iron | 3.00 | 4 | 2925 | 5.5 | 9.8 | 11.8 | - | 3.8 | - | 4.6 | 87.1 | 87.1 | 85.4 | 0.90 | 0.00536 | 39 | 63 |
| 400/690V | Q3HG112M2C | Cast Iron | 4.00 | 5.5 | 2916 | 7.4 | 13.2 | - | 10.7 | - | 3.44 | 4.3 | 88.10 | 88.40 | 87.10 | 0.90 | 0.00604 | 52 | 67 |
| | Q3HSG112M2C | Cast Iron | 4.00 | 5.5 | 2950 | 7.7 | 12.7 | - | 13.6 | - | 4.9 | 5.8 | 88.10 | 87.00 | 84.40 | 0.86 | 0.00638 | 45 | 68 |
| | Q3HSG132S2C | Cast Iron | 5.50 | 7.5 | 2918 | 10 | 18.0 | - | 11.6 | - | 4.2 | 5.4 | 89.20 | 88.30 | 86.70 | 0.90 | 0.00772 | 56 | 69 |
| | Q3HSG132S2D | Cast Iron | 7.50 | 10 | 2903 | 13.5 | 24.7 | - | 11.0 | - | 4.2 | 5.2 | 90.10 | 89.80 | 88.90 | 0.90 | 0.00932 | 63 | 69 |
| | Q3HG160M2C | Cast Iron | 11.00 | 15 | 2965 | 20.1 | 35.4 | - | 1.4 | - | 3.4 | 5.1 | 91.20 | 91.80 | 90.40 | 0.86 | 0.03957 | 84 | 70 |
| | Q3HSG160M2D | Cast Iron | 11.00 | 15 | 2940 | 20.8 | 35.8 | - | 1.8 | - | 4.8 | 6.5 | 91.20 | 90.70 | 89.30 | 0.82 | 0.03517 | 99 | 70 |
| | Q3HG160M2D | Cast Iron | 15.00 | 20 | 2960 | 26.4 | 48.4 | - | 1.1 | - | 3.3 | 4.9 | 91.90 | 91.50 | 89.80 | 0.89 | 0.04322 | 108 | 70 |
| | Q3HSG160M2DE | Cast Iron | 15.00 | 20 | 2941 | 27.5 | 48.8 | - | 12.0 | - | 4.3 | 5.9 | 91.90 | 90.50 | 89.00 | 0.86 | 0.04015 | 115 | 71 |
| | Q3HG160L2C | Cast Iron | 18.50 | 25 | 2957 | 32.9 | 56.7 | - | 10.6 | - | 3.4 | 5.1 | 92.40 | 92.80 | 92.00 | 0.87 | 0.04809 | 132 | 70 |
| | Q3HSG180M2B | Cast Iron | 22.00 | 30 | 2959 | 39.5 | 71.0 | - | 1.8 | - | 3.7 | 5.4 | 92.70 | 91.90 | 90.70 | 0.87 | 0.05869 | 155 | 77 |
| | Q3HG200L2C | Cast Iron | 30.00 | 40 | 2964 | 51.2 | 97.6 | - | 10.4 | - | 2.7 | 4.1 | 93.30 | 92.80 | 91.60 | 0.91 | 0.10277 | 206 | 78 |
| | Q3HG200L2D | Cast Iron | 37.00 | 50 | 2960 | 61.6 | 118.7 | - | 9.9 | - | 2.75 | 4.2 | 93.70 | 93.70 | 93.10 | 0.92 | 0.11383 | 221 | 78 |
| | Q3HG225M2B | Cast Iron | 45.00 | 60 | 2976 | 77.7 | 144.4 | - | 11.4 | - | 3.2 | 6.7 | 94.00 | 94.40 | 93.50 | 0.89 | 0.23500 | 314 | 80 |
| | Q3HG250M2B | Cast Iron | 55.00 | 75 | 2968 | 93.6 | 177.1 | - | 8.5 | - | 2.8 | 5.0 | 94.30 | 93.90 | 93.30 | 0.90 | 0.48700 | 332 | 80 |
| | Q3EP280M2C | Cast Iron | 75.00 | 100 | 2975 | 124.9 | 240.7 | - | 8.4 | - | 2.2 | 4.4 | 94.70 | 94.20 | 93.10 | 0.92 | 0.54000 | 585 | 82 |
| | Q3EP280M2D | Cast Iron | 90.00 | 125 | 2975 | 150.7 | 288.9 | - | 8.6 | - | 2.4 | 5.4 | 95.00 | 94.70 | 93.70 | 0.93 | 0.64500 | 596 | 82 |
| | Q3HG315S2D | Cast Iron | 110.00 | 150 | 2989 | 202.2 | 351.6 | - | 11.5 | - | 2.0 | 5.4 | 95.20 | 93.90 | 92.30 | 0.83 | 2.19900 | 880 | 84 |
| | Q3HG315M2B | Cast Iron | 132.00 | 180 | 2984 | 226.2 | 423.2 | - | 9.7 | - | 2.0 | 4.3 | 95.40 | 95.10 | 94.10 | 0.87 | 2.37790 | 903 | 84 |
| | Q3HG315L2A | Cast Iron | 160.00 | 215 | 2990 | 302.1 | 511.6 | - | 11.2 | - | 2.6 | 6.1 | 95.60 | 94.50 | 92.70 | 0.81 | 2.62170 | 958 | 84 |
| | Q3HG315L2C | Cast Iron | 200.00 | 270 | 2983 | 343.0 | 640.3 | - | 10.8 | - | 2.2 | 4.7 | 95.80 | 95.40 | 94.50 | 0.87 | 2.90860 | 1013 | 84 |
| Q3EP355M2C | Cast Iron | 250.00 | 280 | 2983 | 419.0 | 800.0 | - | 7.3 | - | 1.7 | 2.5 | 95.80 | 95.80 | 94.70 | 0.90 | 3.81300 | 1612 | 91 | |
| Q3EP355L2B | Cast Iron | 315.00 | 353 | 2984 | 527.0 | 1008.0 | - | 7.3 | - | 1.8 | 2.5 | 95.80 | 95.70 | 94.40 | 0.90 | 4.52000 | 1771 | 91 | |
| Q3EP355L2C | Cast Iron | 355.00 | 398 | 2981 | 594.0 | 1137.0 | - | 7.9 | - | 2.2 | 2.5 | 95.80 | 95.80 | 95.00 | 0.90 | 5.58000 | 2002 | 91 | |
| 4 pole 1500 rpm | | | | | | | | | | | | | | | | | | | |
| 230/400V | Q3HG80M4C | Cast Iron | 0.55 | 0.75 | 1453 | 1.4 | 3.6 | 6.6 | - | 1.6 | - | 2.0 | 80.8 | 79.3 | 75.2 | 0.73 | 0.00170 | 19 | 57 |
| | Q3HG80M4D | Cast Iron | 0.75 | 1 | 1447 | 1.8 | 5.0 | 6.6 | - | 2.6 | - | 3.5 | 82.5 | 80.4 | 77.1 | 0.74 | 0.00261 | 19 | 52 |
| | Q3HG90L4C | Cast Iron | 1.10 | 1.5 | 1445 | 2.5 | 7.3 | 7.7 | - | 3.4 | - | 4.0 | 84.1 | 83.2 | 80.6 | 0.78 | 0.00464 | 29 | 53 |
| | Q3HG90L4D | Cast Iron | 1.50 | 2 | 1449 | 3.5 | 9.9 | 8.1 | - | 3.6 | - | 4.2 | 85.3 | 85.0 | 82.1 | 0.76 | 0.00526 | 30 | 53 |
| | Q3HG100L4C | Cast Iron | 2.20 | 3 | 1453 | 4.5 | 14.4 | 9.6 | - | 3.6 | - | 4.4 | 86.7 | 86.3 | 84 | 0.8 | 0.00871 | 41 | 56 |
| | Q3HG112M4D | Cast Iron | 4.00 | 5.5 | 1459 | 8.5 | 26.1 | - | 9.7 | - | 4.0 | 4.7 | 88.6 | 87.9 | 85.7 | 0.77 | 0.01383 | 56 | 54 |
| | Q3HG132S4B | Cast Iron | 5.50 | 7.5 | 1470 | 10.9 | 35.6 | - | 8.6 | - | 2.2 | 3.7 | 89.6 | 89.0 | 87.3 | 0.81 | 0.03560 | 82 | 61 |
| | Q3HG132M4D | Cast Iron | 7.50 | 10 | 1467 | 14.8 | 48.8 | - | 9.1 | - | 2.3 | 4.0 | 90.4 | 89.8 | 88.6 | 0.82 | 0.04030 | 87 | 60 |
| | Q3HG160M4C | Cast Iron | 11.00 | 15 | 1475 | 22.0 | 71.3 | - | 7.3 | - | 2.7 | 3.1 | 91.4 | 91.6 | 90.7 | 0.79 | 0.07542 | 125 | 62 |
| | Q3HSG160M4C | Cast Iron | 11.00 | 15 | 1470 | 20.9 | 71.6 | - | 9.1 | - | 2.6 | 3.9 | 91.4 | 91.0 | 90.1 | 0.84 | 0.05940 | 112 | 63 |
| Q3HG160L4B | Cast Iron | 15.00 | 20 | 1476 | 30.8 | 96.9 | - | 7.7 | - | 2.9 | 3.6 | 92.1 | 91.4 | 90.1 | 0.77 | 0.09005 | 137 | 62 | |
| Q3HSG180M4B | Cast Iron | 18.50 | 25 | 1474 | 36.8 | 119.8 | - | 7.2 | - | 2.7 | 3.2 | 92.6 | 92.3 | 91.7 | 0.79 | 0.11398 | 163 | 67 | |
| Q3HG180L4B | Cast Iron | 22.00 | 30 | 1484 | 42.4 | 141.4 | - | 9.3 | - | 2.8 | 3.8 | 93.0 | 92.6 | 91.5 | 0.81 | 0.18660 | 205 | 68 | |
| Q3HG200L4D | Cast Iron | 30.00 | 40 | 1475 | 54.8 | 195.4 | - | 8.0 | - | 2.5 | 3.1 | 93.6 | 94.2 | 93.9 | 0.85 | 0.22166 | 263 | 68 | |
| Q3HG225S4B | Cast Iron | 37.00 | 50 | 1483 | 68.5 | 237.9 | - | 8.4 | - | 2.85 | 3.9 | 93.9 | 92.9 | 91.7 | 0.84 | 0.36420 | 323 | 71 | |
| Q3HG225M4C | Cast Iron | 45.00 | 60 | 1481 | 82.3 | 290.1 | - | 7.8 | - | 2.6 | 4.2 | 94.2 | 93.8 | 93.1 | 0.84 | 0.43500 | 355 | 71 | |
| Q3HG250M4B | Cast Iron | 55.00 | 75 | 1477 | 103.7 | 357.1 | - | 7.5 | - | 2.8 | 4.0 | 94.6 | 94.0 | 93.4 | 0.82 | 0.90782 | 383 | 72 | |
| Q3EP280M4C | Cast Iron | 75.00 | 100 | 1485 | 138.9 | 482.3 | - | 7.8 | - | 3.0 | 3.2 | 95 | 94.8 | 94 | 0.82 | 1.06100 | 638 | 73 | |
| Q3EP280M4D | Cast Iron | 90.00 | 125 | 1485 | 163.5 | 578.7 | - | 7.9 | - | 3.0 | 3.2 | 95.2 | 95.0 | 93.9 | 0.86 | 1.14760 | 653 | 73 | |
| Q3HG315S4D | Cast Iron | 110.00 | 150 | 1491 | 195.3 | 703.3 | - | 11.1 | - | 2.86 | 4.1 | 95.4 | 94.5 | 93.2 | 0.85 | 3.46500 | 908 | 83 | |
| Q3HG315M4B | Cast Iron | 132.00 | 180 | 1489 | 223.7 | 846.6 | - | 9.1 | - | 2.3 | 3.2 | 95.6 | 95.6 | 95.1 | 0.89 | 3.96600 | 995 | 83 | |
| Q3HG315L4A | Cast Iron | 160.00 | 215 | 1489 | 270.6 | 1026.2 | - | 9.5 | - | 2.5 | 3.3 | 95.8 | 95.8 | 95.2 | 0.89 | 4.88320 | 1078 | 83 | |
| Q3HG315L4B | Cast Iron | 200.00 | 270 | 1489 | 345.0 | 1282.6 | - | 10.1 | - | 2.8 | 3.5 | 96.0 | 95.6 | 94.7 | 0.88 | 5.23440 | 1068 | 83 | |
| Q3EP355M4C | Cast Iron | 250.00 | 280 | 1491 | 422.0 | 1601.0 | - | 7.5 | - | 1.9 | 2.4 | 96.0 | 96.0 | 95.5 | 0.89 | 9.30600 | 1692 | 82 | |
| Q3EP355L4B | Cast Iron | 315.00 | 353 | 1491 | 532.0 | 2017.0 | - | 7.5 | - | 1.9 | 2.4 | 96.0 | 96.0 | 95.5 | 0.89 | 10.06700 | 1879 | 82 | |
| Q3EP355L4C | Cast Iron | 355.00 | 398 | 1491 | 600.0 | 2273.0 | - | 7.5 | - | 2.0 | 2.3 | 96.0 | 96.0 | 95.5 | 0.89 | 11.90000 | 1953 | 82 | |

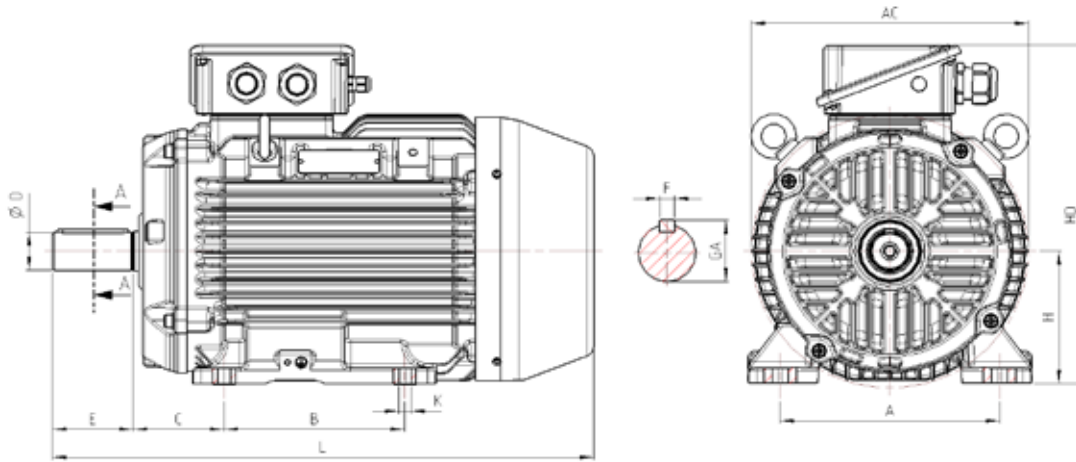
* According to IEC 60034-2-1

** The sound pressure measurements are taken 1m away from the motor

** Tolerance +3 dBA

IE3 THREE PHASE CAST IRON MOTORS

DIMENSION - B3



| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | | Shaft | | | | Bearing | | Seal | |
|------------|-----------------|-------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|------|-----|------------------|-----|------|------------------|------------|----------------|------------|----------------|
| | | | | AC | L | O | B | A | H | HD | K | C | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side |
| 0.55 | 4 | Q3HG80M4C | Cast Iron | 175 | 282 | 2xM25 | 100 | 125 | 80 | 225 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | 20*30*7 |
| 0.75 | 2 | Q3HG80M2C | Cast Iron | 175 | 282 | 2xM25 | 100 | 125 | 80 | 225 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | 20*30*7 |
| 0.75 | 4 | Q3HG80M4D | Cast Iron | 175 | 282 | 2xM25 | 100 | 125 | 80 | 225 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | 20*30*7 |
| 1.10 | 2 | Q3HG80M2D | Cast Iron | 175 | 317 | 2xM25 | 100 | 125 | 80 | 225 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | 20*30*7 |
| 1.10 | 4 | Q3HG90L4C | Cast Iron | 185 | 369 | 2xM25 | 125 | 140 | 90 | 232 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | 25*40*7 |
| 1.50 | 2 | Q3HG90L2C | Cast Iron | 185 | 339 | 2xM25 | 125 | 140 | 90 | 232 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | 25*40*7 |
| 1.50 | 4 | Q3HG90L4D | Cast Iron | 185 | 369 | 2xM25 | 125 | 140 | 90 | 232 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | 25*40*7 |
| 2.20 | 2 | Q3HG90L2D | Cast Iron | 185 | 369 | 2xM25 | 125 | 140 | 90 | 232 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | 25*40*7 |
| 2.20 | 4 | Q3HG100L4C | Cast Iron | 203 | 416 | 2xM25 | 140 | 160 | 100 | 266 | 12 | 63 | 28 | 60 | 31 | 8 | 6306 ZZ | 6306 ZZ | 30*47*7 | 30*47*7 |
| 3.00 | 2 | Q3HG100L2D | Cast Iron | 203 | 416 | 2xM25 | 140 | 160 | 100 | 266 | 12 | 63 | 28 | 60 | 31 | 8 | 6306 ZZ | 6306 ZZ | 30*47*7 | 30*47*7 |
| 3.00 | 4 | Q3HG100L4D | Cast Iron | 203 | 445 | 2xM25 | 140 | 160 | 100 | 266 | 12 | 63 | 28 | 60 | 31 | 8 | 6306 ZZ | 6306 ZZ | 30*47*7 | 30*47*7 |
| 4.00 | 2 | Q3HG112M2C | Cast Iron | 222 | 434 | 2xM25 | 140 | 190 | 112 | 290 | 12 | 70 | 28 | 60 | 31 | 8 | 6306 ZZ | 6306 ZZ | 30*47*7 | 30*47*7 |
| 4.00 | 2 | Q3HS112M2C | Cast Iron | 205 | 416 | 2xM25 | 140 | 190 | 112 | 283 | 12 | 70 | 28 | 60 | 31 | 8 | 6306 ZZ | 6306 ZZ | 30*47*7 | 30*47*7 |
| 4.00 | 4 | Q3HG112M4D | Cast Iron | 222 | 459 | 2xM25 | 140 | 190 | 112 | 290 | 12 | 70 | 28 | 60 | 31 | 8 | 6306 ZZ | 6306 ZZ | 30*47*7 | 30*47*7 |
| 5.50 | 2 | Q3HS132S2C | Cast Iron | 222 | 471 | 2xM25 | 140 | 216 | 132 | 311 | 12 | 89 | 38 | 80 | 41 | 10 | 6308 ZZ | 6306 ZZ | 40*62*10 | 40*62*10 |
| 5.50 | 4 | Q3HG132S4B | Cast Iron | 273 | 533 | 2xM32 | 178 | 216 | 132 | 337 | 12 | 89 | 38 | 80 | 41 | 10 | 6308 ZZ | 6308 ZZ | 40*62*10 | 40*62*10 |
| 7.50 | 2 | Q3HS132S2D | Cast Iron | 222 | 491 | 2xM25 | 140 | 216 | 132 | 311 | 12 | 89 | 38 | 80 | 41 | 10 | 6308 ZZ | 6306 ZZ | 40*62*10 | 40*62*10 |
| 7.50 | 4 | Q3HG132M4D | Cast Iron | 273 | 533 | 2xM32 | 178 | 216 | 132 | 337 | 12 | 89 | 38 | 80 | 41 | 10 | 6308 ZZ | 6308 ZZ | 40*62*10 | 40*62*10 |
| 11.00 | 2 | Q3HG160M2C | Cast Iron | 328 | 626 | 2xM32 | 210 | 254 | 160 | 387 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 |
| 11.00 | 2 | Q3HS160M2D | Cast Iron | 273 | 563 | 2xM32 | 210 | 254 | 160 | 366 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 |
| 11.00 | 4 | Q3HG160M4C | Cast Iron | 328 | 626 | 2xM32 | 210 | 254 | 160 | 387 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 |
| 11.00 | 4 | Q3HS160M4C | Cast Iron | 273 | 605 | 2xM32 | 210 | 254 | 160 | 366 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 |
| 15.00 | 2 | Q3HG160M2D | Cast Iron | 328 | 626 | 2xM32 | 210 | 254 | 160 | 387 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 |
| 15.00 | 2 | Q3HS160M2DE | Cast Iron | 273 | 605 | 2xM32 | 210 | 254 | 160 | 366 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 |
| 15.00 | 4 | Q3HG160L4B | Cast Iron | 328 | 626 | 2xM32 | 210 | 254 | 160 | 387 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 |
| 18.50 | 2 | Q3HG160L2C | Cast Iron | 328 | 626 | 2xM32 | 210 | 254 | 160 | 387 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 |
| 18.50 | 4 | Q3HS180M4B | Cast Iron | 328 | 680 | 2xM32 | 241 | 279 | 180 | 407 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310 ZZ | 6310 ZZ | 50*80*10 | 50*80*10 |
| 22.00 | 2 | Q3HS180M2B | Cast Iron | 328 | 680 | 2xM32 | 241 | 279 | 180 | 407 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310 ZZ | 6310 ZZ | 50*80*10 | 50*80*10 |
| 22.00 | 4 | Q3HG180L4B | Cast Iron | 356 | 759 | 2xM40 | 279 | 279 | 180 | 441 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310 ZZ | 6310 ZZ | 50*80*10 | 50*80*10 |
| 30.00 | 2 | Q3HG200L2C | Cast Iron | 356 | 763 | 2xM50 | 305 | 318 | 200 | 458 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312 ZZ | 6310 ZZ | 60*90*10 | 50*80*10 |
| 30.00 | 4 | Q3HG200L4D | Cast Iron | 356 | 816 | 2xM50 | 305 | 318 | 200 | 458 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312 ZZ | 6310 ZZ | 60*90*10 | 50*80*10 |

(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) According to DIN 6885



IE3 THREE PHASE CAST IRON MOTORS

DIMENSION - B3

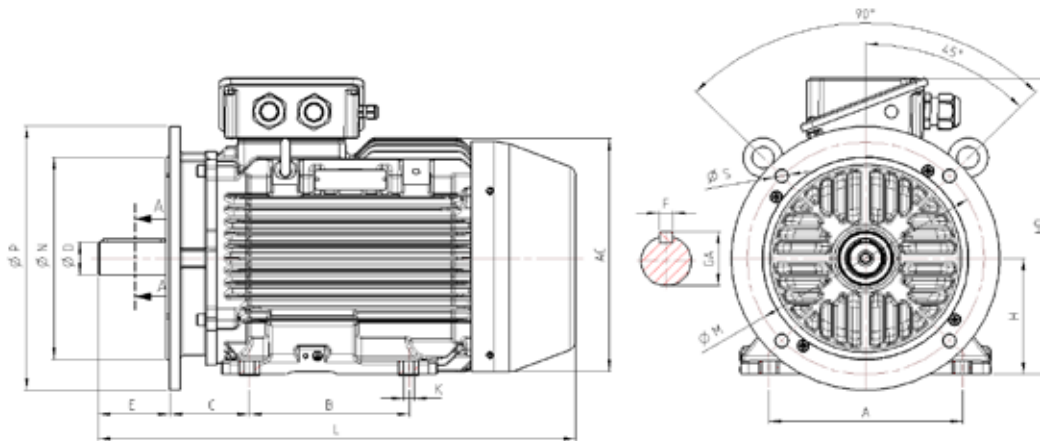
| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | | Shaft | | | | Bearing | | Seal | |
|------------|-----------------|------------|--------------|-----------------|------|-------|---------------------|-----|-----|-----|------|-----|------------------|-----|------|------------------|------------|----------------|-------------|----------------|
| | | | | AC | L | O | B | A | H | HD | K | C | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side |
| 37.00 | 2 | Q3HG200L2D | Cast Iron | 356 | 763 | 2xM50 | 305 | 318 | 200 | 458 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312 ZZ | 6310 ZZ | 60*90*10 | 50*80*10 |
| 37.00 | 4 | Q3HG225S4B | Cast Iron | 440 | 818 | 2xM50 | 286 | 356 | 225 | 524 | 18.5 | 149 | 60 | 140 | 64 | 18 | 6313 ZZ | 6313 ZZ | 65*100*13 | 65*100*13 |
| 45.00 | 2 | Q3HG225M2B | Cast Iron | 440 | 789 | 2xM50 | 311 | 356 | 225 | 524 | 18.5 | 149 | 55 | 110 | 59 | 16 | 6313 ZZ | 6313 ZZ | 65*100*13 | 65*100*13 |
| 45.00 | 4 | Q3HG225M4C | Cast Iron | 440 | 883 | 2xM50 | 311 | 356 | 225 | 524 | 18.5 | 149 | 60 | 140 | 64 | 18 | 6313 ZZ | 6313 ZZ | 65*100*13 | 65*100*13 |
| 55.00 | 2 | Q3HG250M2B | Cast Iron | 440 | 818 | 2xM50 | 349 | 406 | 250 | 549 | 24 | 168 | 60 | 140 | 64 | 18 | 6315 ZZ | 6313 ZZ | 75*112*12 | 75*112*12 |
| 55.00 | 4 | Q3HG250M4B | Cast Iron | 440 | 883 | 2xM50 | 349 | 406 | 250 | 549 | 24 | 168 | 65 | 140 | 69 | 18 | 6315 ZZ | 6313 ZZ | 65*100*13 | 65*100*13 |
| 75.00 | 2 | Q3EP280M2C | Cast Iron | 489 | 1025 | 2xM50 | 419 | 457 | 280 | 647 | 24 | 190 | 65 | 140 | 69 | 18 | 6316 | 6316 | 80*100*10 | 80*100*10 |
| 75.00 | 4 | Q3EP280M4C | Cast Iron | 489 | 1025 | 2xM50 | 419 | 457 | 280 | 647 | 24 | 190 | 75 | 140 | 79.5 | 20 | 6316 | 6316 | 80*100*10 | 80*100*10 |
| 90.00 | 2 | Q3EP280M2D | Cast Iron | 489 | 1025 | 2xM50 | 419 | 457 | 280 | 647 | 24 | 190 | 65 | 140 | 69 | 18 | 6316 | 6316 | 80*100*10 | 80*100*10 |
| 90.00 | 4 | Q3EP280M4D | Cast Iron | 489 | 1025 | 2xM50 | 419 | 457 | 280 | 647 | 24 | 190 | 75 | 140 | 79.5 | 20 | 6316 | 6316 | 80*100*10 | 80*100*10 |
| 110.00 | 2 | Q3HG315S2D | Cast Iron | 638 | 1070 | 2xM63 | 406 | 508 | 315 | 771 | 28 | 216 | 65 | 140 | 69 | 18 | 6316 | 6316 | 72*94*10 | 72*94*10 |
| 110.00 | 4 | Q3HG315S4D | Cast Iron | 638 | 1100 | 2xM63 | 406 | 508 | 315 | 771 | 28 | 216 | 80 | 170 | 85 | 22 | 6319 | 6319 | 85*107*10 | 85*107*10 |
| 132.00 | 2 | Q3HG315M2B | Cast Iron | 638 | 1070 | 2xM63 | 406 | 508 | 315 | 771 | 28 | 216 | 65 | 140 | 69 | 18 | 6316 | 6316 | 72*94*10 | 72*94*10 |
| 132.00 | 4 | Q3HG315M4B | Cast Iron | 638 | 1100 | 2xM63 | 406 | 508 | 315 | 771 | 28 | 216 | 80 | 170 | 85 | 22 | 6319 | 6319 | 85*107*10 | 85*107*10 |
| 160.00 | 2 | Q3HG315L2A | Cast Iron | 638 | 1070 | 2xM63 | 406 | 508 | 315 | 771 | 28 | 216 | 65 | 140 | 69 | 18 | 6316 | 6316 | 72*94*10 | 72*94*10 |
| 160.00 | 4 | Q3HG315L4A | Cast Iron | 638 | 1100 | 2xM63 | 406 | 508 | 315 | 771 | 28 | 216 | 80 | 170 | 85 | 22 | 6319 | 6319 | 85*107*10 | 85*107*10 |
| 200.00 | 2 | Q3HG315L2C | Cast Iron | 638 | 1070 | 2xM63 | 406 | 508 | 315 | 771 | 28 | 216 | 65 | 140 | 69 | 18 | 6316 | 6316 | 72*94*10 | 72*94*10 |
| 200.00 | 4 | Q3HG315L4B | Cast Iron | 638 | 1100 | 2xM63 | 406 | 508 | 315 | 771 | 28 | 216 | 80 | 170 | 85 | 22 | 6319 | 6319 | 85*107*10 | 85*107*10 |
| 250.00 | 2 | Q3EP355M2C | Cast Iron | 762 | 1512 | 4xM63 | 560 | 610 | 355 | 997 | 28 | 254 | 75 | 140 | 80 | 20 | 6317 | 6317 | 85*105*5.5 | 85*105*5.5 |
| 250.00 | 4 | Q3EP355M4C | Cast Iron | 762 | 1542 | 4xM63 | 560 | 610 | 355 | 997 | 28 | 254 | 95 | 170 | 100 | 25 | 6322 | 6322 | 110*130*5.5 | 110*130*5.5 |
| 315.00 | 2 | Q3EP355L2B | Cast Iron | 762 | 1512 | 4xM63 | 630 | 610 | 355 | 997 | 28 | 254 | 75 | 140 | 80 | 20 | 6317 | 6317 | 85*105*5.5 | 85*105*5.5 |
| 315.00 | 4 | Q3EP355L4B | Cast Iron | 762 | 1542 | 4xM63 | 630 | 610 | 355 | 997 | 28 | 254 | 95 | 170 | 100 | 25 | 6322 | 6322 | 110*130*5.5 | 110*130*5.5 |
| 355.00 | 2 | Q3EP355L2C | Cast Iron | 762 | 1512 | 4xM63 | 630 | 610 | 355 | 997 | 28 | 254 | 75 | 140 | 80 | 20 | 6317 | 6317 | 85*105*5.5 | 85*105*5.5 |
| 355.00 | 4 | Q3EP355L4C | Cast Iron | 762 | 1542 | 4xM63 | 630 | 610 | 355 | 997 | 28 | 254 | 95 | 170 | 100 | 25 | 6322 | 6322 | 110*130*5.5 | 110*130*5.5 |

(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) According to DIN 6885

IE3 THREE PHASE CAST IRON MOTORS

DIMENSION - B5, B35



| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | Shaft | | | | Bearing | | Seal | | Flange [FA B5, B35] | | | | | |
|------------|-----------------|-------------|--------------|-----------------|------|-------|---------------------|-----|-----|-----|------|-------|----|-----|------|---------|------------|----------------|------------|---------------------|-----|------------------|-----|---|------|
| | | | | AC | L | O | B | A | H | HD | K | C | D | E | GA | F | Drive Side | Non drive Side | Drive Side | Non drive side | P | N ^[3] | M | R | S |
| 0.55 | 4 | Q3HG80M4C | Cast Iron | 175 | 282 | 2xM25 | 100 | 125 | 80 | 225 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| 0.75 | 2 | Q3HG80M2C | Cast Iron | 175 | 282 | 2xM25 | 100 | 125 | 80 | 225 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| 0.75 | 4 | Q3HG80M4D | Cast Iron | 175 | 282 | 2xM25 | 100 | 125 | 80 | 225 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| 1.10 | 2 | Q3HG80M2D | Cast Iron | 175 | 317 | 2xM25 | 100 | 125 | 80 | 225 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| 1.10 | 4 | Q3HG90L4C | Cast Iron | 185 | 369 | 2xM25 | 125 | 140 | 90 | 232 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 13.5 |
| 1.50 | 2 | Q3HG90L2C | Cast Iron | 185 | 339 | 2xM25 | 125 | 140 | 90 | 232 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 13.5 |
| 1.50 | 4 | Q3HG90L4D | Cast Iron | 185 | 369 | 2xM25 | 125 | 140 | 90 | 232 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 13.5 |
| 2.20 | 2 | Q3HG90L2D | Cast Iron | 185 | 369 | 2xM25 | 125 | 140 | 90 | 232 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 13.5 |
| 2.20 | 4 | Q3HG100L4C | Cast Iron | 203 | 416 | 2xM25 | 140 | 160 | 100 | 266 | 12 | 63 | 28 | 60 | 31 | 8 | 6306 ZZ | 6306 ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| 3.00 | 2 | Q3HG100L2D | Cast Iron | 203 | 416 | 2xM25 | 140 | 160 | 100 | 266 | 12 | 63 | 28 | 60 | 31 | 8 | 6306 ZZ | 6306 ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| 3.00 | 4 | Q3HG100L4D | Cast Iron | 203 | 445 | 2xM25 | 140 | 160 | 100 | 266 | 12 | 63 | 28 | 60 | 31 | 8 | 6306 ZZ | 6306 ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| 4.00 | 2 | Q3HG112M2C | Cast Iron | 222 | 434 | 2xM25 | 140 | 190 | 112 | 290 | 12 | 70 | 28 | 60 | 31 | 8 | 6306 ZZ | 6306 ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| 4.00 | 2 | Q3HSG112M2C | Cast Iron | 205 | 416 | 2xM25 | 140 | 190 | 112 | 283 | 12 | 70 | 28 | 60 | 31 | 8 | 6306 ZZ | 6306 ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| 4.00 | 4 | Q3HG112M4D | Cast Iron | 222 | 459 | 2xM25 | 140 | 190 | 112 | 290 | 12 | 70 | 28 | 60 | 31 | 8 | 6306 ZZ | 6306 ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 14.5 |
| 5.50 | 2 | Q3HSG132S2C | Cast Iron | 222 | 471 | 2xM25 | 140 | 216 | 132 | 311 | 12 | 89 | 38 | 80 | 41 | 10 | 6308 ZZ | 6306 ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| 5.50 | 4 | Q3HG132S4B | Cast Iron | 273 | 533 | 2xM32 | 178 | 216 | 132 | 337 | 12 | 89 | 38 | 80 | 41 | 10 | 6308 ZZ | 6308 ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| 7.50 | 2 | Q3HSG132S2D | Cast Iron | 222 | 491 | 2xM25 | 140 | 216 | 132 | 311 | 12 | 89 | 38 | 80 | 41 | 10 | 6308 ZZ | 6306 ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| 7.50 | 4 | Q3HG132M4D | Cast Iron | 273 | 533 | 2xM32 | 178 | 216 | 132 | 337 | 12 | 89 | 38 | 80 | 41 | 10 | 6308 ZZ | 6308 ZZ | 40*62*10 | 40*62*10 | 300 | 230 | 265 | - | 14.5 |
| 11.00 | 2 | Q3HG160M2C | Cast Iron | 328 | 626 | 2xM32 | 210 | 254 | 160 | 387 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| 11.00 | 2 | Q3HSG160M2D | Cast Iron | 273 | 563 | 2xM32 | 210 | 254 | 160 | 366 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| 11.00 | 4 | Q3HG160M4C | Cast Iron | 328 | 626 | 2xM32 | 210 | 254 | 160 | 387 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| 11.00 | 4 | Q3HSG160M4C | Cast Iron | 273 | 605 | 2xM32 | 210 | 254 | 160 | 366 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| 15.00 | 2 | Q3HG160M2D | Cast Iron | 328 | 626 | 2xM32 | 210 | 254 | 160 | 387 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| 15.00 | 4 | Q3HG160L4B | Cast Iron | 328 | 626 | 2xM32 | 210 | 254 | 160 | 387 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| 18.50 | 2 | Q3HG160L2C | Cast Iron | 328 | 626 | 2xM32 | 210 | 254 | 160 | 387 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 | 350 | 250 | 300 | - | 18.5 |
| 18.50 | 4 | Q3HSG180M4B | Cast Iron | 328 | 680 | 2xM32 | 241 | 279 | 180 | 407 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310 ZZ | 6310 ZZ | 50*80*10 | 50*80*10 | 350 | 250 | 300 | - | 18.5 |
| 22.00 | 2 | Q3HSG180M2B | Cast Iron | 328 | 680 | 2xM32 | 241 | 279 | 180 | 407 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310 ZZ | 6310 ZZ | 50*80*10 | 50*80*10 | 350 | 250 | 300 | - | 18.5 |
| 22.00 | 4 | Q3HG180L4B | Cast Iron | 356 | 759 | 2xM40 | 279 | 279 | 180 | 441 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310 ZZ | 6310 ZZ | 50*80*10 | 50*80*10 | 350 | 250 | 300 | - | 18.5 |
| 30.00 | 2 | Q3HG200L2C | Cast Iron | 356 | 763 | 2xM50 | 305 | 318 | 200 | 458 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312 ZZ | 6310 ZZ | 60*90*10 | 50*80*10 | 400 | 300 | 350 | - | 18.5 |
| 30.00 | 4 | Q3HG200L4D | Cast Iron | 356 | 816 | 2xM50 | 305 | 318 | 200 | 458 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312 ZZ | 6310 ZZ | 60*90*10 | 50*80*10 | 400 | 300 | 350 | - | 18.5 |
| 37.00 | 2 | Q3HG200L2D | Cast Iron | 356 | 763 | 2xM50 | 305 | 318 | 200 | 458 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312 ZZ | 6310 ZZ | 60*90*10 | 50*80*10 | 400 | 300 | 350 | - | 18.5 |
| 37.00 | 4 | Q3HG225S4B | Cast Iron | 440 | 818 | 2xM50 | 286 | 356 | 225 | 524 | 18.5 | 149 | 60 | 140 | 64 | 18 | 6313 ZZ | 6313 ZZ | 65*100*13 | 65*100*13 | 450 | 350 | 400 | - | 18.5 |
| 45.00 | 2 | Q3HG225M2B | Cast Iron | 440 | 789 | 2xM50 | 311 | 356 | 225 | 524 | 18.5 | 149 | 55 | 110 | 59 | 16 | 6313 ZZ | 6313 ZZ | 65*100*13 | 65*100*13 | 450 | 350 | 400 | - | 18.5 |
| 45.00 | 4 | Q3HG225M4C | Cast Iron | 440 | 883 | 2xM50 | 311 | 356 | 225 | 524 | 18.5 | 149 | 60 | 140 | 64 | 18 | 6313 ZZ | 6313 ZZ | 65*100*13 | 65*100*13 | 450 | 350 | 400 | - | 18.5 |
| 55.00 | 2 | Q3HG250M2B | Cast Iron | 440 | 818 | 2xM50 | 349 | 406 | 250 | 549 | 24 | 168 | 60 | 140 | 64 | 18 | 6315 ZZ | 6313 ZZ | 75*112*12 | 75*112*12 | 550 | 450 | 500 | - | 18.5 |
| 55.00 | 4 | Q3HG250M4B | Cast Iron | 440 | 883 | 2xM50 | 349 | 406 | 250 | 549 | 24 | 168 | 65 | 140 | 69 | 18 | 6315 ZZ | 6313 ZZ | 65*100*13 | 65*100*13 | 550 | 450 | 500 | - | 18.5 |
| 75.00 | 2 | Q3EP280M2C | Cast Iron | 489 | 1025 | 2xM50 | 419 | 457 | 280 | 647 | 24 | 190 | 65 | 140 | 69 | 18 | 6316 | 6316 | 80*100*10 | 80*100*10 | 550 | 450 | 500 | - | 18.5 |
| 75.00 | 4 | Q3EP280M4C | Cast Iron | 489 | 1025 | 2xM50 | 419 | 457 | 280 | 647 | 24 | 190 | 75 | 140 | 79.5 | 20 | 6316 | 6316 | 80*100*10 | 80*100*10 | 550 | 450 | 500 | - | 18.5 |
| 90.00 | 2 | Q3EP280M2D | Cast Iron | 489 | 1025 | 2xM50 | 419 | 457 | 280 | 647 | 24 | 190 | 65 | 140 | 69 | 18 | 6316 | 6316 | 80*100*10 | 80*100*10 | 550 | 450 | 500 | - | 18.5 |
| 90.00 | 4 | Q3EP280M4D | Cast Iron | 489 | 1025 | 2xM50 | 419 | 457 | 280 | 647 | 24 | 190 | 75 | 140 | 79.5 | 20 | 6316 | 6316 | 80*100*10 | 80*100*10 | 550 | 450 | 500 | - | 18.5 |
| 110.00 | 2 | Q3HG315S2D | Cast Iron | 638 | 1070 | 2xM63 | 406 | 508 | 315 | 771 | 28 | 216 | 65 | 140 | 69 | 18 | 6316 | 6316 | 72*94*10 | 72*94*10 | 660 | 550 | 600 | - | 24 |
| 110.00 | 4 | Q3HG315S4D | Cast Iron | 638 | 1100 | 2xM63 | 406 | 508 | 315 | 771 | 28 | 216 | 80 | 170 | 85 | 22 | 6319 | 6319 | 85*107*10 | 85*107*10 | 660 | 550 | 600 | - | 24 |

(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm
 (2) According to DIN 6885
 (3) Tolerance DIN EN 50347 "j6"



IE3 THREE PHASE CAST IRON MOTORS

DIMENSION - B5, B35

| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | | Shaft | | | | Bearing | | Seal | | Flange (FA B5, B35) | | | | |
|------------|-----------------|------------|--------------|-----------------|------|-------|---------------------|-----|-----|-----|----|-----|-------|-----|-----|----|------------|----------------|-------------|----------------|---------------------|------------------|-----|---|----|
| | | | | AC | L | O | B | A | H | HD | K | C | D | E | GA | F | Drive Side | Non drive Side | Drive Side | Non drive side | P | N ⁽³⁾ | M | R | S |
| 132.00 | 2 | Q3HG315M2B | Cast Iron | 638 | 1070 | 2xM63 | 406 | 508 | 315 | 771 | 28 | 216 | 65 | 140 | 69 | 18 | 6316 | 6316 | 72*94*10 | 72*94*10 | 660 | 550 | 600 | - | 24 |
| 132.00 | 4 | Q3HG315M4B | Cast Iron | 638 | 1100 | 2xM63 | 406 | 508 | 315 | 771 | 28 | 216 | 80 | 170 | 85 | 22 | 6319 | 6319 | 85*107*10 | 85*107*10 | 660 | 550 | 600 | - | 24 |
| 160.00 | 2 | Q3HG315L2A | Cast Iron | 638 | 1070 | 2xM63 | 406 | 508 | 315 | 771 | 28 | 216 | 65 | 140 | 69 | 18 | 6316 | 6316 | 72*94*10 | 72*94*10 | 660 | 550 | 600 | - | 24 |
| 160.00 | 4 | Q3HG315L4A | Cast Iron | 638 | 1100 | 2xM63 | 406 | 508 | 315 | 771 | 28 | 216 | 80 | 170 | 85 | 22 | 6319 | 6319 | 85*107*10 | 85*107*10 | 660 | 550 | 600 | - | 24 |
| 200.00 | 2 | Q3HG315L2C | Cast Iron | 638 | 1070 | 2xM63 | 406 | 508 | 315 | 771 | 28 | 216 | 65 | 140 | 69 | 18 | 6316 | 6316 | 72*94*10 | 72*94*10 | 660 | 550 | 600 | - | 24 |
| 200.00 | 4 | Q3HG315L4B | Cast Iron | 638 | 1100 | 2xM63 | 406 | 508 | 315 | 771 | 28 | 216 | 80 | 170 | 85 | 22 | 6319 | 6319 | 85*107*10 | 85*107*10 | 660 | 550 | 600 | - | 24 |
| 250.00 | 2 | Q3EP355M2C | Cast Iron | 762 | 1512 | 4xM63 | 560 | 610 | 355 | 997 | 28 | 254 | 75 | 140 | 80 | 20 | 6317 | 6317 | 85*105*5.5 | 85*105*5.5 | 800 | 680 | 740 | - | 24 |
| 250.00 | 4 | Q3EP355M4C | Cast Iron | 762 | 1542 | 4xM63 | 560 | 610 | 355 | 997 | 28 | 254 | 95 | 170 | 100 | 25 | 6322 | 6322 | 110*130*5.5 | 110*130*5.5 | 800 | 680 | 740 | - | 24 |
| 315.00 | 2 | Q3EP355L2B | Cast Iron | 762 | 1512 | 4xM63 | 630 | 610 | 355 | 997 | 28 | 254 | 75 | 140 | 80 | 20 | 6317 | 6317 | 85*105*5.5 | 85*105*5.5 | 800 | 680 | 740 | - | 24 |
| 315.00 | 4 | Q3EP355L4B | Cast Iron | 762 | 1542 | 4xM63 | 630 | 610 | 355 | 997 | 28 | 254 | 95 | 170 | 100 | 25 | 6322 | 6322 | 110*130*5.5 | 110*130*5.5 | 800 | 680 | 740 | - | 24 |
| 355.00 | 2 | Q3EP355L2C | Cast Iron | 762 | 1512 | 4xM63 | 630 | 610 | 355 | 997 | 28 | 254 | 75 | 140 | 80 | 20 | 6317 | 6317 | 85*105*5.5 | 85*105*5.5 | 800 | 680 | 740 | - | 24 |
| 355.00 | 4 | Q3EP355L4C | Cast Iron | 762 | 1542 | 4xM63 | 630 | 610 | 355 | 997 | 28 | 254 | 95 | 170 | 100 | 25 | 6322 | 6322 | 110*130*5.5 | 110*130*5.5 | 800 | 680 | 740 | - | 24 |

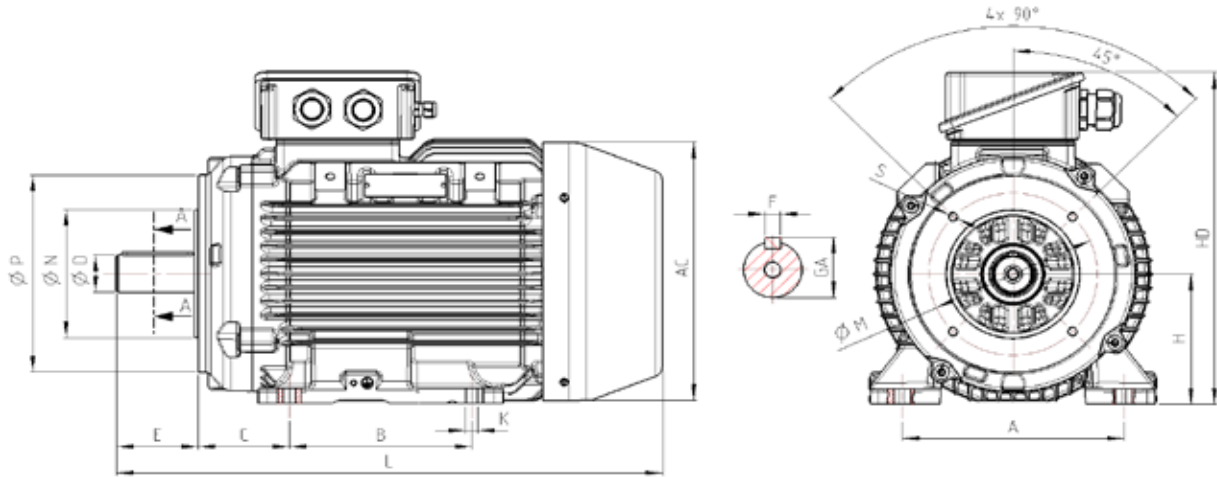
(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) According to DIN 6885

(3) Tolerance DIN EN 50347 "j6"

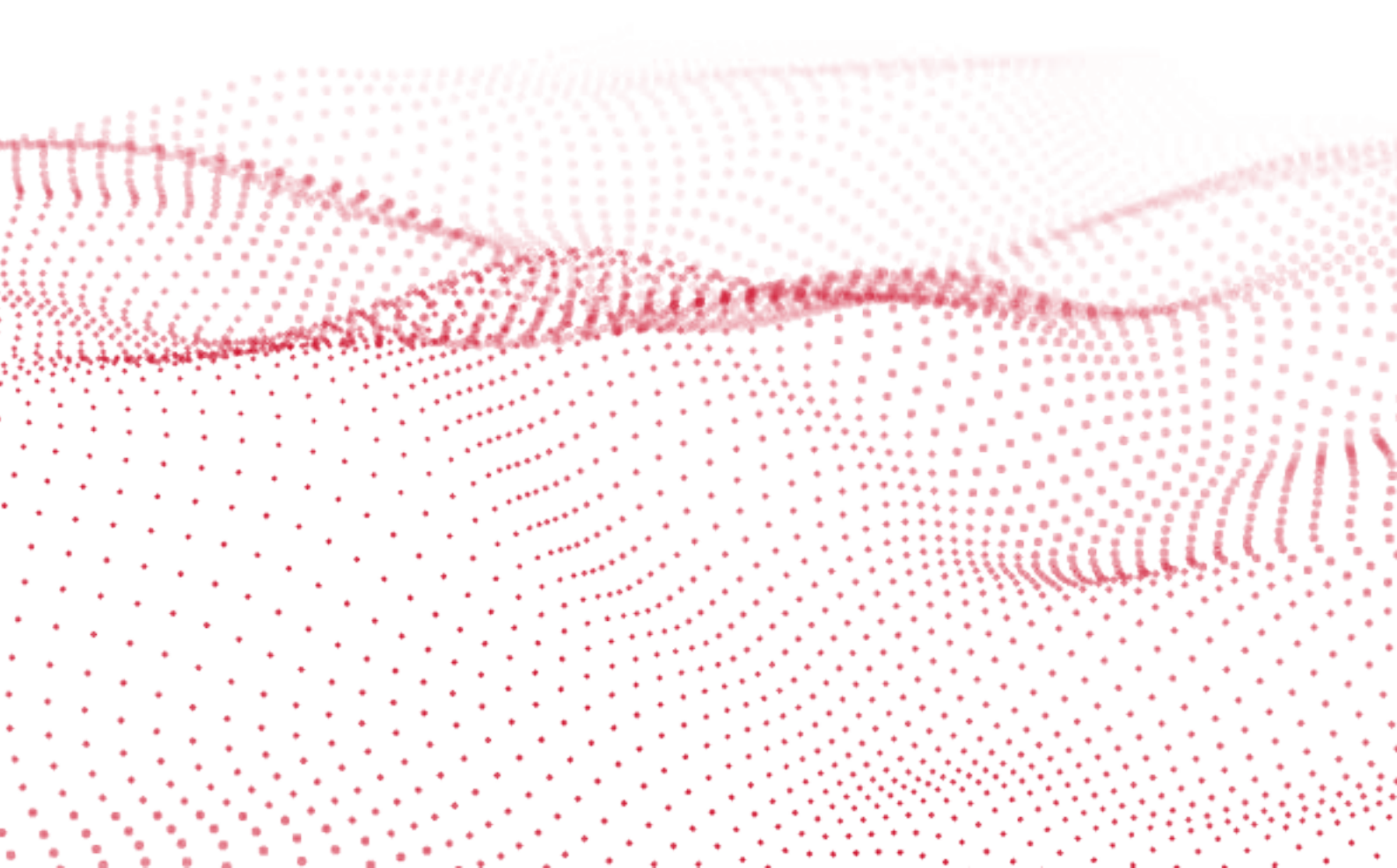
IE3 THREE PHASE CAST IRON MOTORS

DIMENSION - B14b, B34b

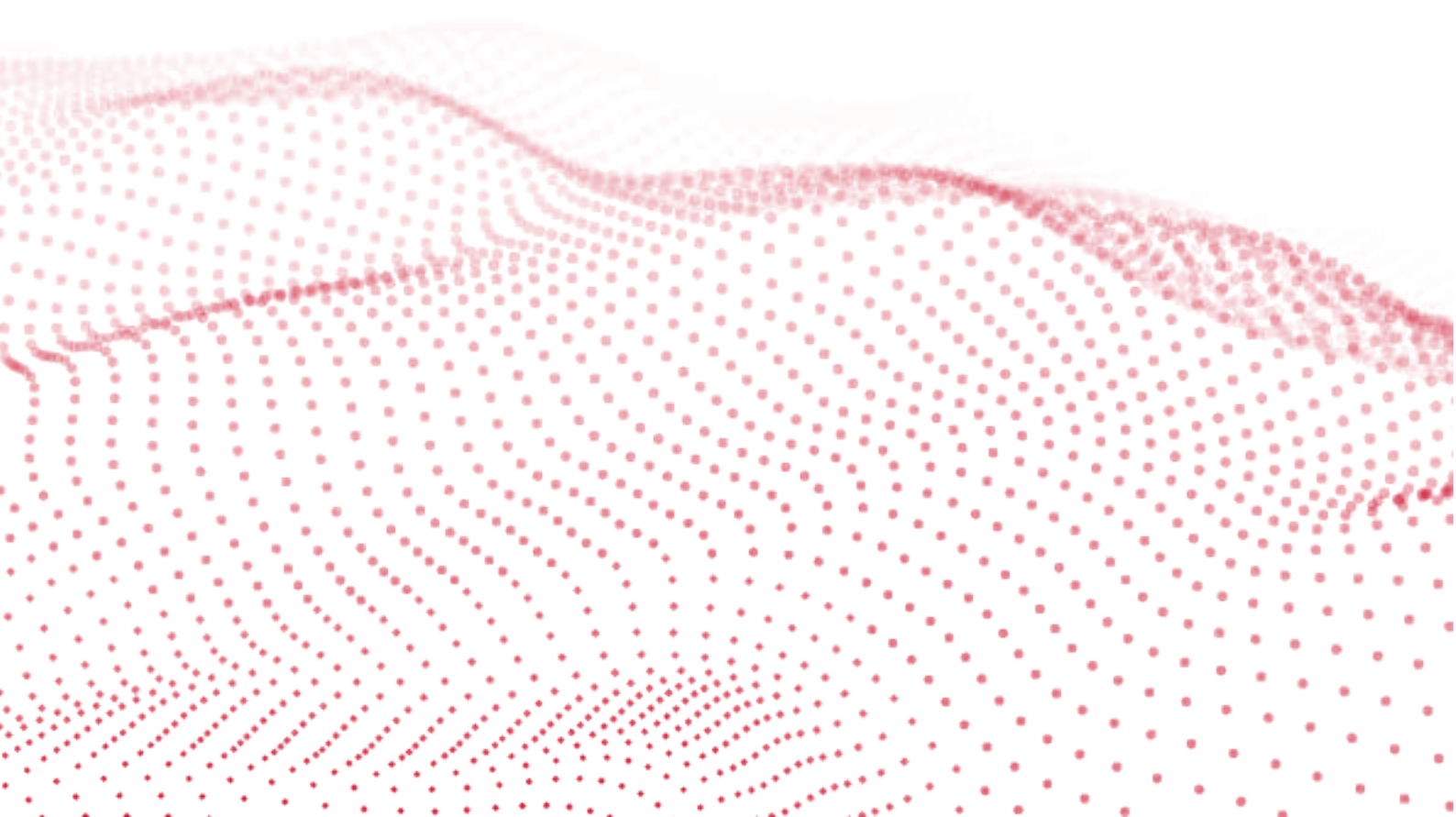


| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | | Shaft | | | | Bearing | | Seal | | Flange [FB B14b, B34b] | | | | |
|------------|-----------------|--------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|------|-----|-------|-----|------|----|------------|----------------|------------|----------------|------------------------|------------------|-----|---|-----|
| | | | | AC | L | O | B | A | H | HD | K | C | D | E | GA | F | Drive Side | Non drive Side | Drive Side | Non drive side | P | N ⁽²⁾ | M | R | S |
| 0.55 | 4 | Q3HG80M4C | Cast Iron | 175 | 282 | 2xM25 | 100 | 125 | 80 | 225 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| 0.75 | 2 | Q3HG80M2C | Cast Iron | 175 | 282 | 2xM25 | 100 | 125 | 80 | 225 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| 0.75 | 4 | Q3HG80M4D | Cast Iron | 175 | 282 | 2xM25 | 100 | 125 | 80 | 225 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| 1.10 | 2 | Q3HG80M2D | Cast Iron | 175 | 317 | 2xM25 | 100 | 125 | 80 | 225 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| 1.10 | 4 | Q3HG90L4C | Cast Iron | 185 | 369 | 2xM25 | 125 | 140 | 90 | 232 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| 1.50 | 2 | Q3HG90L2C | Cast Iron | 185 | 339 | 2xM25 | 125 | 140 | 90 | 232 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| 1.50 | 4 | Q3HG90L4D | Cast Iron | 185 | 369 | 2xM25 | 125 | 140 | 90 | 232 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| 2.20 | 2 | Q3HG90L2D | Cast Iron | 185 | 369 | 2xM25 | 125 | 140 | 90 | 232 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| 2.20 | 4 | Q3HG100L4C | Cast Iron | 203 | 416 | 2xM25 | 140 | 160 | 100 | 266 | 12 | 63 | 28 | 60 | 31 | 8 | 6306 ZZ | 6306 ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| 3.00 | 2 | Q3HG100L2D | Cast Iron | 203 | 416 | 2xM25 | 140 | 160 | 100 | 266 | 12 | 63 | 28 | 60 | 31 | 8 | 6306 ZZ | 6306 ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| 3.00 | 4 | Q3HG100L4D | Cast Iron | 203 | 445 | 2xM25 | 140 | 160 | 100 | 266 | 12 | 63 | 28 | 60 | 31 | 8 | 6306 ZZ | 6306 ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| 4.00 | 2 | Q3HG112M2C | Cast Iron | 222 | 434 | 2xM25 | 140 | 190 | 112 | 290 | 12 | 70 | 28 | 60 | 31 | 8 | 6306 ZZ | 6306 ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| 4.00 | 2 | Q3HSG112M2C | Cast Iron | 205 | 416 | 2xM25 | 140 | 190 | 112 | 283 | 12 | 70 | 28 | 60 | 31 | 8 | 6306 ZZ | 6306 ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| 4.00 | 4 | Q3HG112M4D | Cast Iron | 222 | 459 | 2xM25 | 140 | 190 | 112 | 290 | 12 | 70 | 28 | 60 | 31 | 8 | 6306 ZZ | 6306 ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| 5.50 | 2 | Q3HSG132S2C | Cast Iron | 222 | 471 | 2xM25 | 140 | 216 | 132 | 311 | 12 | 89 | 38 | 80 | 41 | 10 | 6308 ZZ | 6306 ZZ | 40*62*10 | 40*62*10 | 300 | 130 | 165 | - | M10 |
| 5.50 | 4 | Q3HG132S4B | Cast Iron | 273 | 533 | 2xM32 | 178 | 216 | 132 | 337 | 12 | 89 | 38 | 80 | 41 | 10 | 6308 ZZ | 6308 ZZ | 40*62*10 | 40*62*10 | 300 | 130 | 165 | - | M10 |
| 7.50 | 2 | Q3HSG132S2D | Cast Iron | 222 | 491 | 2xM25 | 140 | 216 | 132 | 311 | 12 | 89 | 38 | 80 | 41 | 10 | 6308 ZZ | 6306 ZZ | 40*62*10 | 40*62*10 | 300 | 130 | 165 | - | M10 |
| 7.50 | 4 | Q3HG132M4D | Cast Iron | 273 | 533 | 2xM32 | 178 | 216 | 132 | 337 | 12 | 89 | 38 | 80 | 41 | 10 | 6308 ZZ | 6308 ZZ | 40*62*10 | 40*62*10 | 300 | 130 | 165 | - | M10 |
| 11.00 | 2 | Q3HG160M2C | Cast Iron | 328 | 626 | 2xM32 | 210 | 254 | 160 | 387 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 | 250 | 180 | 215 | - | M10 |
| 11.00 | 2 | Q3HSG160M2D | Cast Iron | 273 | 563 | 2xM32 | 210 | 254 | 160 | 366 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 | 250 | 180 | 215 | - | M10 |
| 11.00 | 4 | Q3HG160M4C | Cast Iron | 328 | 626 | 2xM32 | 210 | 254 | 160 | 387 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 | 250 | 180 | 215 | - | M10 |
| 11.00 | 4 | Q3HSG160M4C | Cast Iron | 273 | 605 | 2xM32 | 210 | 254 | 160 | 366 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 | 250 | 180 | 215 | - | M10 |
| 15.00 | 2 | Q3HG160M2D | Cast Iron | 328 | 626 | 2xM32 | 210 | 254 | 160 | 387 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 | 250 | 180 | 215 | - | M10 |
| 15.00 | 2 | Q3HSG160M2DE | Cast Iron | 273 | 605 | 2xM32 | 210 | 254 | 160 | 366 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 | 250 | 180 | 215 | - | M10 |
| 15.00 | 4 | Q3HG160L4B | Cast Iron | 328 | 626 | 2xM32 | 210 | 254 | 160 | 387 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 | 250 | 180 | 215 | - | M10 |
| 18.50 | 2 | Q3HG160L2C | Cast Iron | 328 | 626 | 2xM32 | 210 | 254 | 160 | 387 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6309 ZZ | 45*72*10 | 45*72*10 | 250 | 180 | 215 | - | M10 |

- (1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm
- (2) According to DIN 6885
- (3) Tolerance DIN EN 50347 "j6"



SMOKE EXTRACTION MOTORS



IE3 SMOKE EXTRACTION MOTORS

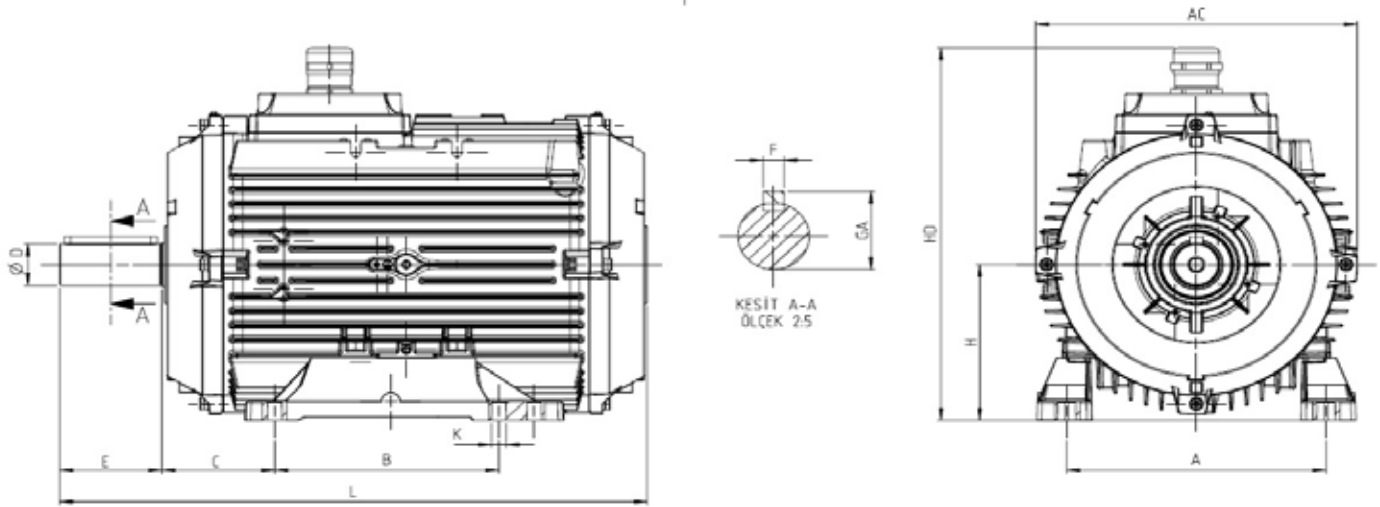
ELECTRICAL CHARACTERISTICS AT 50 Hz

| MOTOR TYPE | HOUSING TYPE | RATED VALUES | | | | | | STARTING VALUES | | | | Break-down Torque Ratio Mk/ Mn | EFFICIENCY* | | | Cosφ | J kgm ² | Weight [B3] kg | Sound Pressure Level dBA** |
|-----------------|--------------|--------------|-------|--------------|--------------|--------------|---------------------------------|---------------------------------|--------|-----|-----|-----------------------------------|-------------|------|------|------|-----------------------|-------------------|-------------------------------|
| | | POWER | | SPEED rpm | CURRENT A | TORQUE Nm | CURRENT | | TORQUE | | | | | | | | | | |
| | | kW | HP | | | | I _A / I _N | M _A / M _N | | | | | | | | | | | |
| | | λ | Δ | λ | Δ | η % | 4/4 | 3/4 | 2/4 | | | | | | | | | | |
| 2 pole 3000 rpm | | | | | | | | | | | | | | | | | | | |
| 230/400V | S3H80M2C | Aluminium | 0.75 | 1.00 | 2903 | 3.1 | 2.5 | 8.3 | - | 3.9 | - | 4.3 | 0.81 | 79.5 | 75.8 | 0.81 | 0.00140 | 11 | 57 |
| | S3H80M2D | Aluminium | 1.10 | 1.50 | 2908 | 4.3 | 3.6 | 9.0 | - | 4.0 | - | 4.3 | 0.83 | 80.2 | 76.4 | 0.83 | 0.00170 | 13 | 57 |
| | S3H90L2C | Aluminium | 1.50 | 2.00 | 2926 | 5.4 | 4.9 | 9.5 | - | 3.1 | - | 4.6 | 84.2 | 86.2 | 84.2 | 0.87 | 0.00249 | 17 | 62 |
| | S3H90L2D | Aluminium | 2.20 | 3.00 | 2931 | 8.5 | 7.2 | 8.1 | - | 2.6 | - | 4.1 | 85.9 | 85.0 | 83.0 | 0.81 | 0.00283 | 18 | 62 |
| | S3H100L2D | Aluminium | 3.00 | 4.00 | 2934 | 10.0 | 9.8 | 9.4 | - | 3.4 | - | 4.0 | 87.1 | 85.3 | 85.1 | 0.90 | 0.00536 | 26 | 63 |
| 400/690V | S3H112M2C | Aluminium | 4.00 | 5.50 | 2917 | 7.5 | 13.1 | - | 9.4 | - | 3.2 | 4.1 | 88.1 | 88.0 | 85.8 | 0.92 | 0.00604 | 30 | 67 |
| | S3H132S2C | Aluminium | 5.50 | 7.50 | 2927 | 11.1 | 18.0 | - | 8.4 | - | 3.2 | 4.3 | 89.2 | 89.0 | 88.5 | 0.88 | 0.02792 | 50 | 69 |
| | S3H132S2D | Aluminium | 7.50 | 10.00 | 2934 | 14.5 | 24.3 | - | 9.4 | - | 3.3 | 4.8 | 90.1 | 89.0 | 88.5 | 0.86 | 0.03091 | 54 | 69 |
| | S3H160M2C | Aluminium | 11.00 | 15.00 | 2971 | 20.8 | 35.4 | - | 11.1 | - | 3.3 | 5.1 | 91.2 | 89.9 | 87.6 | 0.86 | 0.03517 | 81 | 70 |
| | S3H160M2D | Aluminium | 15.00 | 20.00 | 2967 | 27.6 | 48.3 | - | 10.9 | - | 3.4 | 4.9 | 91.9 | 90.4 | 87.9 | 0.87 | 0.04322 | 87 | 70 |
| | S3H160L2C | Aluminium | 18.50 | 25.00 | 2972 | 37.4 | 59.3 | - | 11.0 | - | 3.5 | 5.4 | 92.4 | 90.7 | 88.0 | 0.80 | 0.04809 | 94 | 70 |
| | S3H180M2A | Aluminium | 22.00 | 30.00 | 2969 | 40.3 | 71.1 | - | 9.7 | - | 3.0 | 4.1 | 92.7 | 92.8 | 91.9 | 0.90 | 0.09460 | 115 | 77 |
| | S3H200L2C | Aluminium | 30.00 | 40.00 | 2970 | 53.3 | 97.3 | - | 10.2 | - | 3.0 | 7.0 | 93.3 | 92.8 | 91.6 | 0.90 | 0.10277 | 151 | 78 |
| | S3H200L2D | Aluminium | 37.00 | 50.00 | 2969 | 62.8 | 118.6 | - | 9.8 | - | 2.9 | 4.0 | 93.7 | 93.7 | 93.1 | 0.93 | 0.11383 | 166 | 78 |
| | S3H225M2B | Aluminium | 45.00 | 60.00 | 2976 | 77.7 | 144.4 | - | 10.4 | - | 3.5 | 5.6 | 94.0 | 94.4 | 93.5 | 0.89 | 0.23500 | 213 | 80 |
| | S3EP250M2B | Cast Iron | 55.00 | 75.00 | 2983 | 96.3 | 175.9 | - | 8.5 | - | 2.4 | 4.4 | 94.3 | 93.6 | 92.1 | 0.92 | 0.48700 | 475 | 81 |
| | S3H280M2C | Cast Iron | 75.00 | 100.00 | 2976 | 122.7 | 239.7 | - | 7.7 | - | 2.8 | 3.6 | 94.7 | 94.2 | 93.1 | 0.93 | 0.54000 | 585 | 82 |
| | S3EP280M2D | Cast Iron | 90.00 | 125.00 | 2980 | 147.7 | 288.3 | - | 9.0 | - | 2.6 | 6.9 | 95.0 | 95.1 | 94.7 | 0.93 | 0.64500 | 596 | 82 |
| 4 pole 1500 rpm | | | | | | | | | | | | | | | | | | | |
| 230/400V | S3H80M4C | Aluminium | 0.55 | 0.75 | 1455 | 2.5 | 3.6 | 5.0 | - | 2.7 | - | 3.6 | 80.8 | 78.2 | 77.1 | 0.71 | 0.00190 | 11 | 53 |
| | S3H80M4D | Aluminium | 0.75 | 1.00 | 1458 | 3.3 | 4.9 | 7.4 | - | 3.2 | - | 4.0 | 82.5 | 80.4 | 77.1 | 0.71 | 0.00261 | 12 | 52 |
| | S3H90L4C | Aluminium | 1.10 | 1.50 | 1448 | 4.3 | 7.3 | 7.5 | - | 3.4 | - | 3.9 | 84.1 | 81.0 | 77.3 | 0.77 | 0.00464 | 18 | 53 |
| | S3H90L4D | Aluminium | 1.50 | 2.00 | 1452 | 6.1 | 9.9 | 8.0 | - | 3.8 | - | 4.3 | 85.3 | 84.9 | 82.0 | 0.74 | 0.00526 | 20 | 53 |
| | S3H100L4C | Aluminium | 2.20 | 3.00 | 1458 | 9.2 | 14.4 | 7.5 | - | 3.5 | - | 4.3 | 86.7 | 85.4 | 83.5 | 0.80 | 0.00871 | 26 | 56 |
| | S3H100L4D | Aluminium | 3.00 | 4.00 | 1457 | 11.3 | 19.7 | 8.6 | - | 3.3 | - | 4.0 | 87.7 | 86.1 | 84.4 | 0.78 | 0.01059 | 30 | 58 |
| 400/690V | S3H112M4D | Aluminium | 4.00 | 5.50 | 1765 | 9.3 | 26.2 | - | 8.8 | - | 3.7 | 4.6 | 88.6 | 87.3 | 86.4 | 0.78 | 0.01383 | 35 | 54 |
| | S3H132S4B | Aluminium | 5.50 | 7.50 | 1473 | 11.2 | 35.5 | - | 8.7 | - | 2.9 | 3.9 | 89.6 | 87.3 | 85.0 | 0.81 | 0.03560 | 52 | 60 |
| | S3H132M4D | Aluminium | 7.50 | 10.00 | 1474 | 15.2 | 48.5 | - | 8.0 | - | 2.3 | 3.6 | 90.4 | 90.0 | 88.7 | 0.81 | 0.04030 | 64 | 63 |
| | S3H160L4A | Aluminium | 11.00 | 15.00 | 1475 | 22.0 | 71.3 | - | 7.3 | - | 2.7 | 3.1 | 91.4 | 91.6 | 90.7 | 0.79 | 0.05940 | 90 | 63 |
| | S3H160L4B | Aluminium | 15.00 | 20.00 | 1480 | 31.7 | 96.9 | - | 7.9 | - | 3.0 | 3.6 | 92.1 | 91.4 | 89.6 | 0.74 | 0.09005 | 100 | 62 |
| | S3H180M4B | Aluminium | 18.50 | 25.00 | 1485 | 35.0 | 118.9 | - | 9.2 | - | 3.0 | 3.6 | 92.6 | 91.8 | 90.3 | 0.84 | 0.18660 | 142 | 68 |
| | S3H180L4B | Aluminium | 22.00 | 30.00 | 1487 | 42.4 | 141.1 | - | 9.5 | - | 3.1 | 3.8 | 93.0 | 92.6 | 91.5 | 0.82 | 0.18660 | 157 | 68 |
| | S3H200L4D | Aluminium | 30.00 | 40.00 | 1484 | 57.2 | 194.2 | - | 7.5 | - | 2.1 | 3.3 | 93.6 | 93.8 | 93.6 | 0.83 | 0.22166 | 176 | 68 |
| | S3H225S4B | Aluminium | 37.00 | 50.00 | 1481 | 59.8 | 238.6 | - | 8.8 | - | 2.1 | 3.7 | 93.9 | 94.1 | 93.4 | 0.91 | 0.36400 | 190 | 71 |
| | S3H225M4C | Aluminium | 45.00 | 60.00 | 1485 | 85.1 | 291.9 | - | 7.4 | - | 2.6 | 3.8 | 94.2 | 93.8 | 93.1 | 0.83 | 0.43500 | 236 | 71 |
| | S3EP250M4E | Cast Iron | 55.00 | 75.00 | 1492 | 104.7 | 353.1 | - | 8.2 | - | 3.0 | 3.5 | 94.6 | 93.8 | 91.5 | 0.81 | 0.90800 | 494 | 72 |
| | S3EP280M4D | Cast Iron | 75.00 | 100.00 | 1492 | 136.3 | 480.3 | - | 7.7 | - | 2.2 | 3.7 | 95.0 | 94.3 | 93.4 | 0.83 | 1.06100 | 658 | 73 |

* According to IEC 60034-2-1
 ** The sound pressure measurements are taken 1m away from the motor
 ** Tolerance +3 dBA

IE3 SMOKE EXTRACTION MOTORS

F300 SERIES DIMENSIONS



| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | | Shaft | | | | Bearing | | Seal | |
|------------|-----------------|------------|--------------|-----------------|-----|-----|---------------------|-----|-----|-----|------|-----|-------|-----|------|----|------------|----------------|------------|----------------|
| | | | | AC | L | O | B | A | H | HD | K | C | D | E | GA | F | Drive Side | Non drive Side | Drive Side | Non drive side |
| 0.55 | 4 | S3H80M4C | Aluminum | 173 | 263 | M20 | 100 | 125 | 80 | 212 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 0.75 | 2 | S3H80M2C | Aluminum | 173 | 263 | M20 | 100 | 125 | 80 | 212 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 0.75 | 4 | S3H80M4D | Aluminum | 158 | 263 | M20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 1.10 | 2 | S3H80M2D | Aluminum | 173 | 263 | M20 | 100 | 125 | 80 | 212 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 1.10 | 4 | S3H90L4C | Aluminum | 188 | 308 | M25 | 100 | 140 | 90 | 238 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 1.50 | 2 | S3H90L2C | Aluminum | 188 | 308 | M25 | 100 | 140 | 90 | 238 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 1.50 | 4 | S3H90L4D | Aluminum | 188 | 346 | M25 | 100 | 140 | 90 | 238 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 2.20 | 2 | S3H90L2D | Aluminum | 188 | 308 | M25 | 100 | 140 | 90 | 238 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 2.20 | 4 | S3H100L4C | Aluminum | 196 | 348 | M25 | 140 | 160 | 100 | 257 | 12 | 63 | 28 | 60 | 31 | 8 | 6205 ZZ | 6306 ZZ | 30*47*7 | - |
| 3.00 | 2 | S3H100L2D | Aluminum | 196 | 348 | M25 | 140 | 160 | 100 | 257 | 12 | 63 | 28 | 60 | 31 | 8 | 6306 ZZ | 6205 ZZ | 30*47*7 | - |
| 3.00 | 4 | S3H100L4D | Aluminum | 196 | 348 | M25 | 140 | 160 | 100 | 257 | 12 | 63 | 28 | 60 | 31 | 8 | 6205 ZZ | 6306 ZZ | 30*47*7 | - |
| 4.00 | 2 | S3H12M2C | Aluminum | 225 | 355 | M25 | 140 | 190 | 112 | 277 | 12 | 70 | 28 | 60 | 31 | 8 | 6306 ZZ | 6206 ZZ | 30*47*7 | - |
| 4.00 | 4 | S3H12M4D | Aluminum | 225 | 381 | M25 | 140 | 190 | 112 | 277 | 12 | 70 | 28 | 60 | 31 | 8 | 6206 ZZ | 6306 ZZ | 30*47*7 | - |
| 5.50 | 2 | S3H132S2C | Aluminum | 260 | 430 | M32 | 140 | 216 | 132 | 323 | 12 | 89 | 38 | 80 | 41 | 10 | 6208 ZZ | 6208 ZZ | 40*62*10 | - |
| 5.50 | 4 | S3H132S4B | Aluminum | 260 | 430 | M32 | 140 | 216 | 132 | 323 | 12 | 89 | 38 | 80 | 41 | 10 | 6208 ZZ | 6208 ZZ | 40*62*10 | - |
| 7.50 | 2 | S3H132S2D | Aluminum | 260 | 430 | M32 | 140 | 216 | 132 | 323 | 12 | 89 | 38 | 80 | 41 | 10 | 6208 ZZ | 6208 ZZ | 40*62*10 | - |
| 7.50 | 4 | S3H132M4D | Aluminum | 260 | 490 | M32 | 178 | 216 | 132 | 312 | 12 | 89 | 38 | 80 | 41 | 10 | 6208 ZZ | 6208 ZZ | 40*62*10 | - |
| 11.00 | 2 | S3H160M2C | Aluminum | 314 | 539 | M32 | 210 | 254 | 160 | 374 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6209 ZZ | 45*72*10 | - |
| 11.00 | 4 | S3H160L4A | Aluminum | 314 | 539 | M32 | 210 | 254 | 160 | 374 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6208 ZZ | 45*72*10 | - |
| 15.00 | 2 | S3H160M2D | Aluminum | 314 | 539 | M32 | 210 | 254 | 160 | 374 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6209 ZZ | 45*72*10 | - |
| 15.00 | 4 | S3H160L4B | Aluminum | 314 | 539 | M32 | 210 | 254 | 160 | 374 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6209 ZZ | 45*72*10 | - |
| 18.50 | 2 | S3H160L2C | Aluminum | 314 | 539 | M32 | 210 | 254 | 160 | 374 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6209 ZZ | 45*72*10 | - |
| 18.50 | 4 | S3H180M4B | Aluminum | 346 | 632 | M40 | 241 | 279 | 180 | 430 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310 ZZ | 6310 ZZ | 50*80*10 | - |
| 22.00 | 2 | S3H180M2A | Aluminum | 346 | 632 | M40 | 241 | 279 | 180 | 430 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310 ZZ | 6310 ZZ | 50*80*10 | - |
| 22.00 | 4 | S3H180L4B | Aluminum | 346 | 682 | M40 | 241 | 279 | 180 | 430 | 14.5 | 121 | 48 | 110 | 51.5 | 14 | 6310 ZZ | 6310 ZZ | 50*80*10 | - |
| 30.00 | 2 | S3H200L2C | Aluminum | 388 | 692 | M40 | 267 | 318 | 200 | 450 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6310 ZZ | 6312 ZZ | 50*80*10 | - |
| 30.00 | 4 | S3H200L4D | Aluminum | 388 | 692 | M40 | 267 | 318 | 200 | 450 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6310 ZZ | 6312 ZZ | 50*80*10 | - |
| 37.00 | 2 | S3H200L2D | Aluminum | 388 | 692 | M40 | 267 | 318 | 200 | 450 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6310 ZZ | 6312 ZZ | 50*80*10 | - |
| 37.00 | 4 | S3H225S4B | Aluminum | 442 | 695 | M40 | 286 | 356 | 225 | 500 | 18.5 | 149 | 60 | 140 | 64 | 18 | 6313 ZZ | 6313 ZZ | 65*100*13 | - |
| 45.00 | 2 | S3H225M2B | Aluminum | 442 | 665 | M40 | 286 | 356 | 225 | 500 | 18.5 | 149 | 55 | 110 | 59 | 16 | 6313 ZZ | 6313 ZZ | 65*100*13 | - |
| 45.00 | 4 | S3H225M4C | Aluminum | 442 | 695 | M40 | 286 | 356 | 225 | 500 | 18.5 | 149 | 60 | 140 | 64 | 18 | 6313 ZZ | 6313 ZZ | 65*100*13 | - |
| 55.00 | 2 | S3EP250M2B | Cast Iron | 522 | 795 | M50 | 311 | 406 | 250 | 578 | 24 | 168 | 60 | 140 | 64 | 18 | 6316 Z | 6316 Z | 80*100*10 | - |
| 55.00 | 4 | S3EP250M4E | Cast Iron | 522 | 795 | M50 | 311 | 406 | 250 | 578 | 24 | 168 | 65 | 140 | 69 | 18 | 6316 Z | 6316 Z | 80*100*10 | - |
| 75.00 | 2 | S3H280M2C | Cast Iron | 550 | 929 | M50 | 368 | 457 | 280 | 612 | 24 | 190 | 65 | 140 | 69 | 18 | 6316 Z | 6316 Z | 80*100*10 | - |
| 75.00 | 4 | S3EP280M4D | Cast Iron | 550 | 929 | M50 | 368 | 457 | 280 | 612 | 24 | 190 | 75 | 140 | 79.5 | 20 | 6316 Z | 6316 Z | 80*100*10 | - |
| 90.00 | 2 | S3EP280M2D | Cast Iron | 550 | 929 | M50 | 368 | 457 | 280 | 612 | 24 | 190 | 65 | 140 | 69 | 18 | 6316 Z | 6316 Z | 80*100*10 | - |

IE2 SMOKE EXTRACTION MOTORS

ELECTRICAL CHARACTERISTICS AT 50 Hz

| MOTOR TYPE | HOUSING TYPE | RATED VALUES | | | | | | STARTING VALUES | | | | Break-down Torque Ratio | EFFICIENCY* | | | Cosφ | J | Weight [B3] | Sound Pressure Level |
|-----------------|-----------------|--------------|-------|--------|---------|--------|---------|-----------------|--------|-----|--------|-------------------------|-------------|------|------|------|---------|-------------|----------------------|
| | | POWER | | SPEED | CURRENT | TORQUE | CURRENT | | TORQUE | | η % | | | | | | | | |
| | | kW | HP | rpm | A | Nm | IA / IN | MA / MN | λ | Δ | 4/4 | | 3/4 | 2/4 | | | | | |
| | | | | | | | λ | Δ | λ | Δ | Mk/ Mn | | | | | | | | |
| 2 pole 3000 rpm | | | | | | | | | | | | | | | | | | | |
| 230/400V | S2H80M2B | Aluminium | 0.75 | 1.00 | 2873 | 3.0 | 2.5 | 6.7 | - | 3.3 | - | 3.5 | 77.4 | 76.5 | 74.3 | 0.84 | 0.00205 | 8.85 | 54 |
| | S2H80M2C | Aluminium | 1.10 | 1.50 | 2885 | 4.3 | 3.6 | 7.5 | - | 3.6 | - | 3.8 | 79.6 | 78.8 | 76.0 | 0.81 | 0.00205 | 10.3 | 54 |
| | S2H90S2B | Aluminium | 1.50 | 2.00 | 2923 | 5.7 | 4.9 | 8.9 | - | 2.9 | - | 3.9 | 81.3 | 79.3 | 78.3 | 0.84 | 0.00176 | 12.2 | 62 |
| | S2H90L2C | Aluminium | 2.20 | 3.00 | 2913 | 7.8 | 7.3 | 8.8 | - | 2.9 | - | 3.9 | 83.2 | 82.6 | 84.6 | 0.86 | 0.00231 | 16.8 | 62 |
| | S2H100L2C | Aluminium | 3.00 | 4.00 | 2920 | 10.3 | 9.9 | 10.1 | - | 3.7 | - | 4.5 | 84.6 | 85.1 | 83.3 | 0.89 | 0.00266 | 23.2 | 66 |
| 400/690V | S2HS112M2B | Aluminium | 4.00 | 5.50 | 2927 | 7.7 | 13.0 | - | 10.2 | - | 3.5 | 4.1 | 85.8 | 85.9 | 84.3 | 0.89 | 0.00487 | 26.0 | 68 |
| | S2HS132S2B | Aluminium | 5.50 | 7.50 | 2930 | 11.0 | 18.0 | - | 11.5 | - | 4.1 | 5.3 | 87.0 | 86.1 | 83.2 | 0.85 | 0.00703 | 33.7 | 69 |
| | S2HS132S2C | Aluminium | 7.50 | 10.00 | 2918 | 14.9 | 24.8 | - | 10.7 | - | 3.9 | 4.6 | 88.1 | 85.9 | 83.4 | 0.85 | 0.00772 | 36.5 | 69 |
| | S2HI60M2B | Aluminium | 11.00 | 15.00 | 2964 | 20.8 | 35.5 | - | 9.6 | - | 2.9 | 4.2 | 89.4 | 86.6 | 85.0 | 0.87 | 0.03952 | 78.8 | 70 |
| | S2HI60M2C | Aluminium | 15.00 | 20.00 | 2967 | 28.4 | 48.3 | - | 10.7 | - | 3.5 | 5.0 | 90.3 | 88.1 | 85.0 | 0.85 | 0.04015 | 82.8 | 70 |
| | S2HI60L2B | Aluminium | 18.50 | 25.00 | 2964 | 33.8 | 59.4 | - | 10.3 | - | 3.2 | 4.5 | 90.9 | 89.4 | 87.4 | 0.88 | 0.04613 | 88.0 | 70 |
| | S2HI80M2A | Aluminium | 22.00 | 30.00 | 2971 | 40.0 | 70.7 | - | 9.0 | - | 2.5 | 4.0 | 91.3 | 90.5 | 90.6 | 0.90 | 0.10913 | 118.0 | 67 |
| | S2H200M2A | Aluminium | 30.00 | 40.00 | 2970 | 54.6 | 96.5 | - | 9.0 | - | 2.6 | 4.2 | 92.0 | 90.5 | 87.9 | 0.88 | 0.08643 | 136.2 | 78 |
| | S2H200L2C | Aluminium | 37.00 | 50.00 | 2971 | 68.9 | 119.0 | - | 9.5 | - | 2.9 | 4.4 | 92.5 | 92.3 | 90.1 | 0.85 | 0.10277 | 178.0 | 78 |
| | S2H225M2A | Aluminium | 45.00 | 60.00 | 2980 | 85.3 | 144.2 | - | 11.2 | - | 3.7 | 5.1 | 92.9 | 90.8 | 87.8 | 0.83 | 0.23500 | 201.0 | 81 |
| | S2EP250M2B | Cast Iron | 55.00 | 75.00 | 2987 | 103.4 | 175.4 | - | 11.2 | - | 3.5 | 5.4 | 93.2 | 92.5 | 91.6 | 0.86 | 0.48700 | 486.0 | 82 |
| | S2EP280M2C | Cast Iron | 75.00 | 100.00 | 2980 | 129.0 | 240.6 | - | 8.9 | - | 2.4 | 3.2 | 93.8 | 92.1 | 90.1 | 0.90 | 0.54000 | 576.0 | 84 |
| | S2EP280M2D | Cast Iron | 90.00 | 125.00 | 2985 | 157.0 | 286.8 | - | 8.7 | - | 2.6 | 3.2 | 94.5 | 93.5 | 92.6 | 0.89 | 0.64500 | 610.0 | 84 |
| | 4 pole 1500 rpm | | | | | | | | | | | | | | | | | | |
| 230/400V | S2H80M4B | Aluminium | 0.55 | 0.75 | 1443 | 3.3 | 5.0 | 6.1 | - | 2.7 | - | 3.4 | 79.6 | 78.8 | 74.0 | 0.72 | 0.00216 | 10.8 | 49 |
| | S2H80M4C | Aluminium | 0.75 | 1.00 | 1450 | 2.4 | 3.6 | 5.5 | - | 2.2 | - | 3.0 | 77.1 | 76.6 | 72.3 | 0.72 | 0.00216 | 9.1 | 54 |
| | S2H90S4B | Aluminium | 1.10 | 1.50 | 1452 | 4.6 | 7.2 | 7.1 | - | 3.1 | - | 3.8 | 81.4 | 80.8 | 76.8 | 0.74 | 0.00205 | 15.7 | 54 |
| | S2H90L4C | Aluminium | 1.50 | 2.00 | 1443 | 6.2 | 9.9 | 7.7 | - | 3.6 | - | 4.2 | 82.8 | 81.6 | 80.4 | 0.73 | 0.00328 | 17.5 | 54 |
| | S2H100L4B | Aluminium | 2.20 | 3.00 | 1455 | 8.2 | 14.4 | 8.3 | - | 3.2 | - | 3.9 | 84.3 | 84.2 | 79.5 | 0.79 | 0.00694 | 24.5 | 55 |
| 400/690V | S2H100L4C | Aluminium | 3.00 | 4.00 | 1455 | 11.6 | 19.8 | 8.2 | - | 3.4 | - | 4.0 | 85.5 | 84.4 | 80.4 | 0.77 | 0.00694 | 26.0 | 55 |
| | S2HS112M4C | Aluminium | 4.00 | 5.50 | 1453 | 8.6 | 26.1 | - | 7.5 | - | 3.1 | 3.6 | 86.6 | 86.1 | 84.4 | 0.78 | 0.01085 | 30.5 | 58 |
| | S2HI32S4A | Aluminium | 5.50 | 7.50 | 1470 | 11.1 | 35.7 | - | 7.9 | - | 2.4 | 3.5 | 87.7 | 86.1 | 85.2 | 0.84 | 0.01414 | 48.6 | 59 |
| | S2HI32M4C | Aluminium | 7.50 | 10.00 | 1468 | 15.2 | 48.8 | - | 7.7 | - | 2.2 | 3.5 | 88.7 | 88.5 | 87.0 | 0.82 | 0.03560 | 54.8 | 62 |
| | S2HI60M4B | Aluminium | 11.00 | 15.00 | 1474 | 22.3 | 71.4 | - | 6.3 | - | 2.3 | 2.7 | 89.8 | 88.4 | 86.7 | 0.81 | 0.05468 | 75.6 | 63 |
| | S2HI60L4A | Aluminium | 15.00 | 20.00 | 1470 | 29.5 | 98.1 | - | 5.5 | - | 2.0 | 2.3 | 90.6 | 89.1 | 89.9 | 0.83 | 0.09940 | 86.2 | 63 |
| | S2HI80M4A | Aluminium | 18.50 | 25.00 | 1485 | 37.6 | 119.1 | - | 8.3 | - | 2.6 | 3.6 | 91.2 | 90.8 | 89.0 | 0.79 | 0.10913 | 118.0 | 67 |
| | S2HI80L4B | Aluminium | 22.00 | 30.00 | 1484 | 42.4 | 141.6 | - | 7.4 | - | 2.4 | 3.1 | 91.6 | 91.5 | 90.1 | 0.83 | 0.11398 | 127.0 | 67 |
| | S2H200L4C | Aluminium | 30.00 | 40.00 | 1480 | 56.9 | 195.4 | - | 6.7 | - | 2.0 | 2.7 | 92.3 | 91.9 | 91.1 | 0.85 | 0.18660 | 158.5 | 70 |
| | S2H225S4A | Aluminium | 37.00 | 50.00 | 1485 | 73.1 | 238.5 | - | 7.7 | - | 2.7 | 4.2 | 92.7 | 92.4 | 91.0 | 0.80 | 0.36420 | 203.0 | 71 |
| | S2H225M4B | Aluminium | 45.00 | 60.00 | 1485 | 85.5 | 290.0 | - | 7.4 | - | 2.5 | 4.0 | 93.1 | 93.2 | 92.5 | 0.83 | 0.43500 | 223.8 | 71 |
| | S2EP250M4D | Cast Iron | 55.00 | 75.00 | 1489 | 104.8 | 352.1 | - | 6.5 | - | 2.2 | 2.9 | 93.5 | 94.0 | 93.3 | 0.81 | 0.36400 | 465.0 | 72 |
| | S2EP280M4B | Cast Iron | 75.00 | 100.00 | 1490 | 137.9 | 480.9 | - | 7.7 | - | 2.2 | 3.7 | 95.0 | 94.3 | 93.4 | 0.83 | 1.06100 | 658.0 | 73 |

* According to IEC 60034-2-1

** The sound pressure measurements are taken 1m away from the motor

** Tolerance +3 dBA

** According to EN 12101-3

IE2 SMOKE EXTRACTION MOTORS

ELECTRICAL CHARACTERISTICS AT 50 Hz

| MOTOR TYPE | HOUSING TYPE | RATED VALUES | | | | | STARTING VALUES | | | | Break-down Torque Ratio | EFFICIENCY* | | | Cosφ | J | Weight [B3] | Sound Pressure Level |
|------------------------|--------------|--------------|--------|-------|---------|--------|-----------------|---------|--------|-----|-------------------------|-------------|-----|-----|------|---------|-------------|----------------------|
| | | POWER | | SPEED | CURRENT | TORQUE | CURRENT | | TORQUE | | | η % | | | | | | |
| | | kW | HP | rpm | A | Nm | IA / IN | MA / MN | λ | Δ | | 4/4 | 3/4 | 2/4 | | | | |
| | | | | | | | λ | Δ | λ | Δ | | Mk/ Mn | 4/4 | 3/4 | | | | |
| 2 -4pole 3000-1500 rpm | | | | | | | | | | | | | | | | | | |
| S2H80M2-4A | Aluminium | 0.80 | 1.07 | 2848 | 19 | 2.7 | 4.6 | - | 2.0 | - | 2.4 | 74.5 | - | - | 0.83 | 0.00205 | 9 | 56 |
| | | 0.20 | 0.27 | 1437 | 0.5 | 1.3 | - | 4.6 | - | 1.7 | 2.5 | 71.4 | - | - | 0.82 | | | 46 |
| S2H80M2-4B | Aluminium | 1.10 | 1.47 | 2865 | 2.3 | 3.7 | 5.0 | - | 2.0 | - | 2.3 | 79.6 | - | - | 0.87 | 0.00205 | 11 | 54 |
| | | 0.25 | 0.33 | 1483 | 12 | 16 | - | 7.5 | - | 5.4 | 7.9 | 68.5 | - | - | 0.44 | | | 54 |
| S2H90S2-4B | Aluminium | 1.50 | 2.00 | 2860 | 3.3 | 5.0 | 5.7 | - | 2.3 | - | 2.7 | 75.0 | - | - | 0.88 | 0.00267 | 16 | 54 |
| | | 0.37 | 0.49 | 1480 | 15 | 24 | - | 9.4 | - | 5.8 | 8.5 | 71.5 | - | - | 0.49 | | | 57 |
| S2H90L2-4C | Aluminium | 2.20 | 2.93 | 2835 | 4.5 | 7.4 | 5.1 | - | 1.8 | - | 2.2 | 76.5 | - | - | 0.92 | 0.00205 | 19 | 55 |
| | | 0.50 | 0.67 | 1475 | 18 | 32 | - | 9.5 | - | 5.7 | 7.5 | 75.0 | - | - | 0.54 | | | 58 |
| S2H100L2-4B | Aluminium | 2.50 | 3.33 | 2910 | 5.2 | 8.2 | 8.4 | - | 3.1 | - | 3.7 | 83.8 | - | - | 0.88 | 0.00521 | 26 | 70 |
| | | 0.65 | 0.87 | 1452 | 14 | 4.3 | - | 9.4 | - | 2.4 | 3.1 | 78.0 | - | - | 0.86 | | | 58 |
| S2H100L2-4D | Aluminium | 3.10 | 4.13 | 2913 | 6.3 | 10.2 | 8.2 | - | 2.8 | - | 3.3 | 82.5 | - | - | 0.90 | 0.00694 | 30 | 60 |
| | | 0.80 | 1.07 | 1448 | 17 | 5.3 | - | 6.4 | - | 2.1 | 2.9 | 79.0 | - | - | 0.87 | | | 57 |
| S2H112M2-4D | Aluminium | 4.40 | 5.87 | 2925 | 9.1 | 14.3 | 9.0 | - | 3.2 | - | 3.9 | 86.2 | - | - | 0.85 | 0.01383 | 37 | 71 |
| | | 1.10 | 1.47 | 1455 | 2.2 | 7.2 | - | 7.4 | - | 2.3 | 3.3 | 81.4 | - | - | 0.85 | | | 60 |
| S2H132S2-4B | Aluminium | 6.00 | 8.00 | 2963 | 15.4 | 19.3 | 8.5 | - | 3.3 | - | 4.9 | 85.5 | - | - | 0.70 | 0.03560 | 62 | 73 |
| | | 1.50 | 2.00 | 1482 | 3.1 | 9.7 | - | 9.9 | - | 2.7 | 4.6 | 82.0 | - | - | 0.80 | | | 63 |
| S2H132M2-4D | Aluminium | 8.00 | 10.67 | 2927 | 16.3 | 26.1 | 6.7 | - | 2.1 | - | 3.1 | 87.8 | - | - | 0.86 | 0.03842 | 63 | 73 |
| | | 2.00 | 2.67 | 1468 | 4.2 | 13.1 | - | 6.0 | - | 2.0 | 2.8 | 81.5 | - | - | 0.88 | | | 63 |
| S2H160M2-4B | Aluminium | 12.00 | 16.00 | 2974 | 26.9 | 38.6 | 9.7 | - | 3.5 | - | 5.1 | 89.7 | - | - | 0.75 | 0.03517 | 100 | 61 |
| | | 3.00 | 4.00 | 1485 | 6.3 | 19.3 | - | 8.8 | - | 3.2 | 4.3 | 85.5 | - | - | 0.78 | | | 56 |
| S2H160L2-4B | Aluminium | 16.00 | 21.33 | 2963 | 30.1 | 51.8 | 7.9 | - | 2.4 | - | 3.5 | 88.9 | - | - | 0.87 | 0.05940 | 108 | 62 |
| | | 4.00 | 5.33 | 1479 | 7.7 | 25.6 | - | 6.6 | - | 2.2 | 2.9 | 85.5 | - | - | 0.84 | | | 58 |
| S2H180L2-4B | Aluminium | 25.00 | 33.33 | 2975 | 45.0 | 80.3 | 11.1 | - | 2.2 | - | 5.5 | 91.4 | - | - | 0.88 | 0.11398 | 142 | 70 |
| | | 6.30 | 8.40 | 1485 | 12.0 | 40.5 | - | 9.4 | - | 2.4 | 4.7 | 88.5 | - | - | 0.85 | | | 73 |
| S2H180L2-4C | Aluminium | 20.00 | 26.67 | 2957 | 32.8 | 64.6 | 7.2 | - | 2.0 | - | 3.2 | 91.4 | - | - | 0.96 | 0.14659 | 131 | 70 |
| | | 5.00 | 6.67 | 1479 | 9.0 | 32.3 | - | 6.0 | - | 1.4 | 2.8 | 88.3 | - | - | 0.91 | | | 73 |
| S2H200L2-4B | Aluminium | 33.00 | 44.00 | 2973 | 66.3 | 106.0 | 9.7 | - | 2.1 | - | 5.3 | 91.4 | - | - | 0.80 | 0.18598 | 149 | 70 |
| | | 8.50 | 11.33 | 1484 | 15.6 | 54.7 | - | 8.9 | - | 2.2 | 4.3 | 91.6 | - | - | 0.86 | | | 73 |
| S2H225M2-4C | Aluminium | 37.00 | 49.33 | 2979 | 89.6 | 119.4 | 8.6 | - | 2.9 | - | 3.8 | 93.0 | - | - | 0.70 | 0.36420 | 234 | 71 |
| | | 9.00 | 12.00 | 1489 | 17.7 | 58.0 | - | 9.8 | - | 3.0 | 5.0 | 90.4 | - | - | 0.86 | | | 57 |
| S2H225M2-4D | Aluminium | 46.00 | 61.33 | 2973 | 91.4 | 147.0 | 8.2 | - | 2.3 | - | 5.4 | 93.1 | - | - | 0.88 | 0.43500 | 250 | 69 |
| | | 12.00 | 16.00 | 1485 | 22.4 | 77.9 | - | 7.5 | - | 2.2 | 3.7 | 90.1 | - | - | 0.89 | | | 57 |
| S2EP250M2-4C | Cast Iron | 55.00 | 73.33 | 2978 | 92.0 | 176.4 | 9.5 | - | 2.0 | - | 4.0 | 93.3 | - | - | 0.91 | 0.36400 | 506 | 72 |
| | | 15.00 | 20.00 | 1488 | 26.0 | 96.3 | - | 9.0 | - | 2.4 | 4.0 | 91.0 | - | - | 0.91 | | | 75 |
| S2EP280M2-4B | Cast Iron | 75.00 | 100.00 | 2983 | 139.8 | 240.3 | 7.9 | - | 2.4 | - | 3.3 | 93.8 | - | - | 0.89 | 1.14800 | 609 | 76 |
| | | 20.00 | 26.67 | 1492 | 39.1 | 129.2 | - | 6.9 | - | 2.0 | 2.3 | 90.9 | - | - | 0.87 | | | 68 |

* According to IEC 60034-2-1
 ** The sound pressure measurements are taken 1m away from the motor
 ** Tolerance +3 dBA

IE2 SMOKE EXTRACTION MOTORS

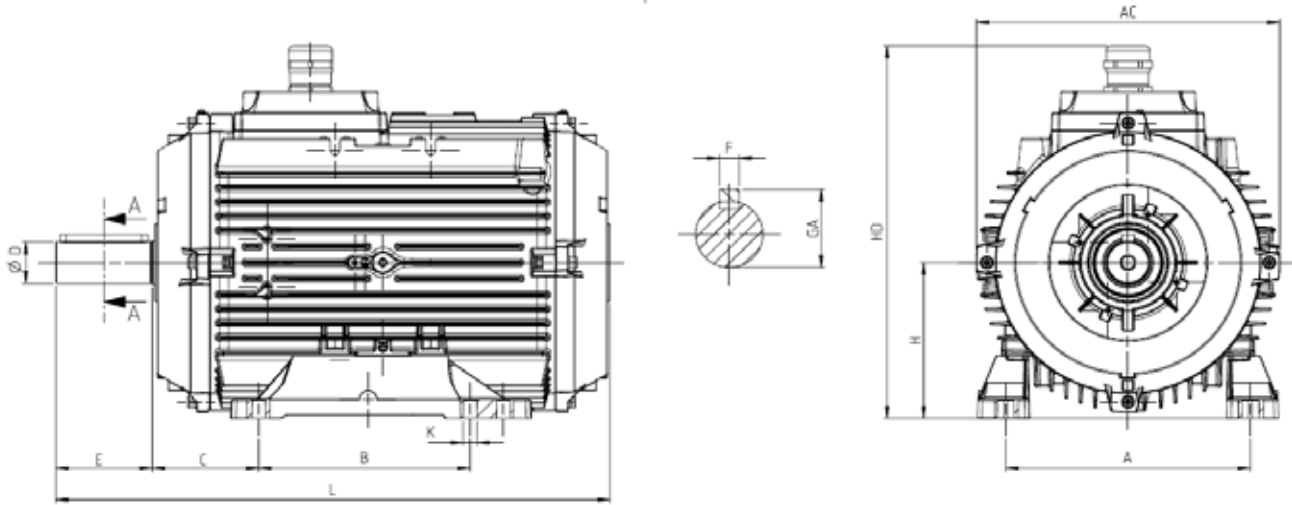
ELECTRICAL CHARACTERISTICS AT 50 Hz

| MOTOR TYPE | HOUSING TYPE | RATED VALUES | | | | | STARTING VALUES | | | | Break-down Torque Ratio Mk/ Mn | EFFICIENCY* | | | Cosφ | J kgm2 | Weight [B3] kg | Sound Pressure Level dBA** |
|-----------------------|--------------|--------------|-------|--------------|--------------|--------------|---------------------------------|-----|---------------------------------|-----|-----------------------------------|-------------|---|---|------|-----------|-------------------|-------------------------------|
| | | POWER | | SPEED rpm | CURRENT A | TORQUE Nm | CURRENT | | TORQUE | | | η % | | | | | | |
| | | kW | HP | | | | I _A / I _N | Δ | M _A / M _N | Δ | | | | | | | | |
| | | 4/4 | 3/4 | 2/4 | 4/4 | 3/4 | 2/4 | | | | | | | | | | | |
| 4-8 pole 1500-750 rpm | | | | | | | | | | | | | | | | | | |
| S2H80M4-8C | Aluminium | 0.60 | 0.80 | 1463 | 2.1 | 3.9 | 4.9 | - | 2.4 | - | 6.7 | 70.7 | - | - | 0.59 | 0.00205 | 9 | 54 |
| | | 0.15 | 0.20 | 728 | 1.0 | 2.0 | - | 2.6 | - | 2.2 | 6.0 | 48.4 | - | - | 0.48 | | | 58 |
| S2H80M4-8D | Aluminium | 0.80 | 1.07 | 1432 | 1.8 | 5.3 | 6.4 | - | 2.5 | - | 3.3 | 78.2 | - | - | 0.83 | 0.00216 | 10 | 54 |
| | | 0.20 | 0.27 | 703 | 1.1 | 2.7 | - | 3.3 | - | 2.3 | 2.9 | 49.4 | - | - | 0.62 | | | 58 |
| S2H90S4-8B | Aluminium | 1.20 | 1.60 | 1430 | 2.7 | 8.0 | 5.6 | - | 2.1 | - | 2.7 | 85.5 | - | - | 0.82 | 0.00205 | 17 | 55 |
| | | 0.30 | 0.40 | 705 | 1.2 | 4.0 | - | 2.7 | - | 1.5 | 2.0 | 50.6 | - | - | 0.59 | | | 58 |
| S2H90L4-8C | Aluminium | 1.60 | 2.13 | 1427 | 3.5 | 10.7 | 5.5 | - | 2.0 | - | 2.5 | 82.8 | - | - | 0.85 | 0.00267 | 20 | 54 |
| | | 0.40 | 0.53 | 693 | 1.4 | 5.5 | - | 2.8 | - | 1.5 | 2.0 | 57.2 | - | - | 0.65 | | | 57 |
| S2H100L4-8B | Aluminium | 2.00 | 2.67 | 1465 | 5.3 | 13.1 | 7.5 | - | 3.2 | - | 4.2 | 83.6 | - | - | 0.70 | 0.00521 | 26 | 46 |
| | | 0.50 | 0.67 | 723 | 2.5 | 6.6 | - | 3.0 | - | 2.4 | 3.0 | 61.7 | - | - | 0.50 | | | 54 |
| S2H100L4-8C | Aluminium | 2.80 | 3.73 | 1438 | 5.6 | 18.6 | 6.2 | - | 2.0 | - | 2.6 | 84.3 | - | - | 0.87 | 0.00694 | 29 | 46 |
| | | 0.70 | 0.93 | 707 | 2.1 | 9.4 | - | 3.2 | - | 1.5 | 2.0 | 70.0 | - | - | 0.67 | | | 54 |
| S2H112M4-8B | Aluminium | 3.80 | 5.07 | 1458 | 7.8 | 24.9 | 7.5 | - | 2.3 | - | 3.2 | 84.5 | - | - | 0.82 | 0.01085 | 33 | 60 |
| | | 1.00 | 1.33 | 718 | 3.1 | 13.3 | - | 3.9 | - | 1.5 | 2.3 | 70.8 | - | - | 0.61 | | | 55 |
| S2H132S4-8B | Aluminium | 5.00 | 6.67 | 1476 | 10.2 | 32.5 | 8.2 | - | 2.1 | - | 3.6 | 85.9 | - | - | 0.83 | 0.14136 | 60 | 59 |
| | | 1.30 | 1.73 | 739 | 4.1 | 16.8 | - | 4.2 | - | 1.5 | 2.6 | 75.2 | - | - | 0.58 | | | 62 |
| S2H132M4-8C | Aluminium | 7.20 | 9.60 | 1479 | 14.7 | 46.4 | 9.2 | - | 2.1 | - | 4.2 | 88.7 | - | - | 0.81 | 0.03560 | 66 | 63 |
| | | 1.80 | 2.40 | 737 | 5.7 | 23.2 | - | 5.0 | - | 1.6 | 3.2 | 74.0 | - | - | 0.55 | | | 58 |
| S2H160M4-8B | Aluminium | 11.00 | 14.67 | 1476 | 22.5 | 71.2 | 6.4 | - | 2.3 | - | 2.9 | 89.8 | - | - | 0.80 | 0.03517 | 77 | 64 |
| | | 3.00 | 4.00 | 732 | 9.1 | 39.3 | - | 3.3 | - | 1.7 | 2.0 | 80.0 | - | - | 0.58 | | | 52 |
| S2H160L4-8A | Aluminium | 14.00 | 18.67 | 1475 | 28.1 | 90.7 | 5.4 | - | 1.8 | - | 2.3 | 90.5 | - | - | 0.81 | 0.09940 | 84 | 63 |
| | | 3.50 | 4.67 | 734 | 10.4 | 45.6 | - | 3.6 | - | 1.8 | 2.1 | 80.0 | - | - | 0.58 | | | 66 |
| S2H180M4-8B | Aluminium | 17.00 | 22.67 | 1484 | 33.2 | 109.5 | 7.8 | - | 1.9 | - | 3.2 | 91.0 | - | - | 0.83 | 0.18660 | 121 | 70 |
| | | 4.30 | 5.73 | 739 | 12.2 | 55.4 | - | 4.4 | - | 1.5 | 2.3 | 81.9 | - | - | 0.60 | | | 66 |
| S2H180L4-8A | Aluminium | 20.00 | 26.67 | 1484 | 39.0 | 128.9 | 6.7 | - | 2.0 | - | 2.7 | 91.4 | - | - | 0.83 | 0.18598 | 128 | 70 |
| | | 5.00 | 6.67 | 731 | 13.3 | 65.6 | - | 3.1 | - | 1.4 | 1.8 | 81.4 | - | - | 0.65 | | | 67 |
| S2H200L4-8B | Aluminium | 28.00 | 37.33 | 1487 | 57.1 | 181.2 | 8.7 | - | 2.7 | - | 4.0 | 92.3 | - | - | 0.80 | 0.18660 | 192 | 70 |
| | | 6.50 | 8.67 | 737 | 17.4 | 84.1 | - | 4.4 | - | 1.6 | 2.3 | 85.3 | - | - | 0.62 | | | 73 |
| S2H200L4-8D | Aluminium | 30.00 | 40.00 | 1489 | 71.0 | 193.1 | 9.2 | - | 3.1 | - | 4.3 | 92.3 | - | - | 0.75 | 0.36420 | 181 | 70 |
| | | 8.00 | 10.67 | 738 | 21.8 | 103.6 | - | 4.0 | - | 1.5 | 2.1 | 85.3 | - | - | 0.62 | | | 73 |
| S2H225S4-8A | Aluminium | 37.00 | 49.33 | 1483 | 72.6 | 236.6 | 7.1 | - | 2.2 | - | 3.2 | 90.2 | - | - | 0.81 | 0.36421 | 201 | 71 |
| | | 9.20 | 12.27 | 739 | 23.2 | 119.4 | - | 4.9 | - | 1.8 | 2.6 | 86.1 | - | - | 0.67 | | | 74 |
| S2H225M4-8B | Cast Iron | 44.00 | 58.67 | 1483 | 85.8 | 282.4 | 7.4 | - | 2.2 | - | 3.3 | 93.1 | - | - | 0.81 | 0.36421 | 219 | 71 |
| | | 11.00 | 14.67 | 740 | 27.2 | 143.0 | - | 4.6 | - | 2.0 | 2.3 | 86.9 | - | - | 0.66 | | | 74 |
| S2EP250L4-8D | Cast Iron | 55.00 | 73.33 | 1488 | 92.5 | 352.9 | 10.2 | - | 3.3 | - | 4.5 | 93.6 | - | - | 0.92 | 0.43500 | 278 | 72 |
| | | 14.70 | 19.60 | 740 | 31.9 | 193.5 | - | 7.2 | - | 2.6 | 3.0 | 90.6 | - | - | 0.75 | | | 75 |

* According to IEC 60034-2-1
 ** The sound pressure measurements are taken 1m away from the motor

** Tolerance +3 dBA
 ** According to EN 12101-3

F300 SERIES DIMENSIONS

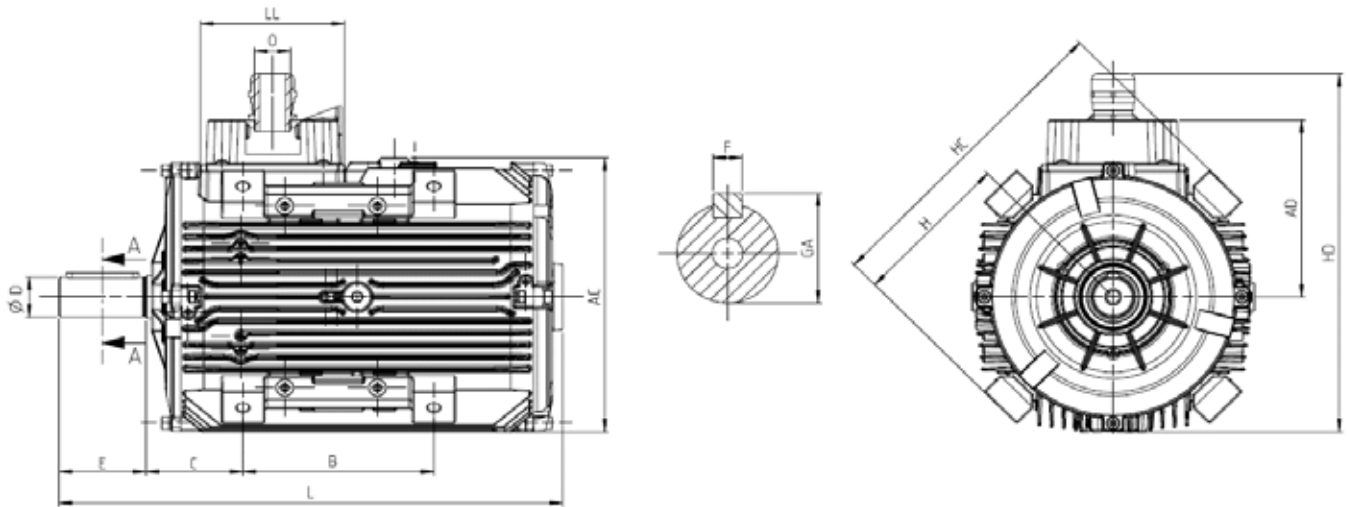


| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | | Shaft | | | | Bearing | | Seal | |
|------------|-----------------|------------|--------------|-----------------|-----|-----|---------------------|-----|-----|-----|------|-------|-------|-----|------|----|------------|----------------|------------|----------------|
| | | | | AC | L | O | B | A | H | HD | K | C | D | E | GA | F | Drive Side | Non drive Side | Drive Side | Non drive side |
| 0.75 | 2 | S2H80M2B | Aluminium | 173 | 238 | M20 | 100 | 125 | 80 | 213 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 1.10 | 2 | S2H80M2C | Aluminium | 173 | 263 | M20 | 100 | 125 | 80 | 213 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 1.50 | 2 | S2H90S2B | Aluminium | 189 | 308 | M25 | 100 | 140 | 90 | 238 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 2.20 | 2 | S2H90L2C | Aluminium | 189 | 308 | M25 | 100 | 140 | 90 | 238 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 3.00 | 2 | S2H100L2C | Aluminium | 206 | 348 | M25 | 140 | 160 | 100 | 257 | 12 | 63 | 28 | 60 | 31 | 8 | 6306 ZZ | 6205 ZZ | 30*47*7 | - |
| 4.00 | 2 | S2HS112M2B | Aluminium | 222 | 348 | M25 | 140 | 190 | 112 | 269 | 12 | 56 | 28 | 60 | 31 | 8 | 6306 ZZ | 6205 ZZ | 30*47*7 | - |
| 5.50 | 2 | S2HS132S2B | Aluminium | 245 | 382 | M25 | 140 | 216 | 132 | 297 | 12 | 89 | 38 | 80 | 41 | 10 | 6208 ZZ | 6206 ZZ | 40*62*10 | - |
| 7.50 | 2 | S2HS132S2C | Aluminium | 245 | 382 | M25 | 140 | 216 | 132 | 297 | 12 | 89 | 38 | 80 | 41 | 10 | 6208 ZZ | 6206 ZZ | 40*62*10 | - |
| 11.00 | 2 | S2H160M2B | Aluminium | 345 | 538 | M32 | 210 | 254 | 160 | 374 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6209 ZZ | 45*72*10 | - |
| 15.00 | 2 | S2H160M2C | Aluminium | 345 | 538 | M32 | 210 | 254 | 160 | 374 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6209 ZZ | 45*72*10 | - |
| 18.50 | 2 | S2H160L2B | Aluminium | 345 | 568 | M32 | 210 | 254 | 160 | 374 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6209 ZZ | 45*72*10 | - |
| 22.00 | 2 | S2H180M2A | Aluminium | 346 | 632 | M40 | 241 | 279 | 180 | 430 | 15 | 121.5 | 48 | 110 | 51.5 | 14 | 6310 ZZ | 6310 ZZ | 50*80*10 | - |
| 30.00 | 2 | S2H200M2A | Aluminium | 346 | 692 | M40 | 267 | 318 | 200 | 450 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312 ZZ | 6310 ZZ | 60*90*10 | - |
| 37.00 | 2 | S2H200L2C | Aluminium | 346 | 692 | M40 | 267 | 318 | 200 | 450 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312 ZZ | 6310 ZZ | 60*90*10 | - |
| 45.00 | 2 | S2H225M2A | Aluminium | 442 | 695 | M40 | 286 | 356 | 225 | 500 | 18.5 | 149 | 60 | 140 | 64 | 18 | 6313 ZZ | 6313 ZZ | 65*100*13 | - |
| 55.00 | 2 | S2EP250M2B | Cast Iron | 522 | 795 | M50 | 311 | 406 | 250 | 578 | 24 | 168 | 65 | 140 | 69 | 18 | 6316 | 6316 | 90*130*10 | - |
| 75.00 | 2 | S2EP280M2C | Cast Iron | 550 | 929 | M50 | 368 | 457 | 280 | 612 | 24 | 190 | 75 | 140 | 79.5 | 20 | 6316 | 6316 | 90*130*10 | - |
| 90.00 | 2 | S2EP280M2D | Cast Iron | 550 | 929 | M50 | 368 | 457 | 280 | 612 | 24 | 190 | 75 | 140 | 79.5 | 20 | 6316 | 6316 | 90*130*10 | - |
| 0.55 | 4 | S2H80M4B | Aluminium | 173 | 263 | M20 | 100 | 125 | 80 | 213 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 0.75 | 4 | S2H80M4C | Aluminium | 173 | 263 | M20 | 100 | 125 | 80 | 213 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 1.10 | 4 | S2H90S4B | Aluminium | 189 | 308 | M25 | 100 | 140 | 90 | 238 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 1.50 | 4 | S2H90L4C | Aluminium | 189 | 308 | M25 | 100 | 140 | 90 | 238 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 2.20 | 4 | S2H100L4B | Aluminium | 206 | 348 | M25 | 140 | 160 | 100 | 257 | 12 | 63 | 28 | 60 | 31 | 8 | 6306 ZZ | 6205 ZZ | 30*47*7 | - |
| 3.00 | 4 | S2H100L4C | Aluminium | 206 | 348 | M25 | 140 | 160 | 100 | 257 | 12 | 63 | 28 | 60 | 31 | 8 | 6306 ZZ | 6205 ZZ | 30*47*7 | - |
| 4.00 | 4 | S2HS112M4C | Aluminium | 222 | 348 | M25 | 140 | 190 | 112 | 269 | 12 | 56 | 28 | 60 | 31 | 8 | 6306 ZZ | 6205 ZZ | 30*47*7 | - |
| 5.50 | 4 | S2H132S4A | Aluminium | 291 | 490 | M32 | 140 | 216 | 132 | 323 | 12 | 89 | 38 | 80 | 41 | 10 | 6208 ZZ | 6208 ZZ | 40*62*10 | - |
| 7.50 | 4 | S2H132M4C | Aluminium | 291 | 490 | M32 | 140 | 216 | 132 | 323 | 12 | 89 | 38 | 80 | 41 | 10 | 6208 ZZ | 6208 ZZ | 40*62*10 | - |
| 11.00 | 4 | S2H160M4B | Aluminium | 345 | 538 | M32 | 210 | 254 | 160 | 374 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6209 ZZ | 45*72*10 | - |
| 15.00 | 4 | S2H160L4A | Aluminium | 345 | 568 | M32 | 210 | 254 | 160 | 374 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6209 ZZ | 45*72*10 | - |
| 18.50 | 4 | S2H180M4A | Aluminium | 346 | 632 | M40 | 241 | 279 | 180 | 430 | 15 | 121.5 | 48 | 110 | 51.5 | 14 | 6310 ZZ | 6310 ZZ | 50*80*10 | - |
| 22.00 | 4 | S2H180L4B | Aluminium | 346 | 632 | M40 | 241 | 279 | 180 | 430 | 15 | 121.5 | 48 | 110 | 51.5 | 14 | 6310 ZZ | 6310 ZZ | 50*80*10 | - |
| 30.00 | 4 | S2H200L4C | Aluminium | 346 | 692 | M40 | 267 | 318 | 200 | 450 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312 ZZ | 6310 ZZ | 60*90*10 | - |
| 37.00 | 4 | S2H225S4A | Aluminium | 442 | 695 | M40 | 286 | 356 | 225 | 500 | 18.5 | 149 | 60 | 140 | 64 | 18 | 6313 ZZ | 6313 ZZ | 65*100*13 | - |
| 45.00 | 4 | S2H225M4B | Aluminium | 442 | 695 | M40 | 286 | 356 | 225 | 500 | 18.5 | 149 | 60 | 140 | 64 | 18 | 6313 ZZ | 6313 ZZ | 65*100*13 | - |
| 55.00 | 4 | S2EP250M4D | Cast Iron | 522 | 795 | M50 | 311 | 406 | 250 | 578 | 24 | 168 | 65 | 140 | 69 | 18 | 6316 | 6316 | 90*130*10 | - |
| 75.00 | 4 | S2EP280M4B | Cast Iron | 550 | 929 | M50 | 368 | 457 | 280 | 612 | 24 | 190 | 75 | 140 | 79.5 | 20 | 6316 | 6316 | 90*130*10 | - |



| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | | Shaft | | | | Bearing | | Seal | |
|-------------|-----------------|--------------|--------------|-----------------|-----|-----|---------------------|-----|-----|-----|------|-------|-------|-----|------|----|------------|----------------|------------|----------------|
| | | | | AC | L | O | B | A | H | HD | K | C | D | E | GA | F | Drive Side | Non drive Side | Drive Side | Non drive side |
| 0.20-0.80 | 2-4 | S2H80M2-4A | Aluminium | 173 | 238 | M20 | 100 | 125 | 80 | 213 | 10 | 50 | 19 | 40 | 215 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 0.25-1.10 | 2-4 | S2H80M2-4B | Aluminium | 173 | 263 | M20 | 100 | 125 | 80 | 213 | 10 | 50 | 19 | 40 | 215 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 0.37-1.50 | 2-4 | S2H90S2-4B | Aluminium | 189 | 308 | M25 | 100 | 140 | 90 | 238 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 0.50-2.20 | 2-4 | S2H90L2-4C | Aluminium | 189 | 308 | M25 | 100 | 140 | 90 | 238 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 0.65-2.50 | 2-4 | S2H100L2-4B | Aluminium | 206 | 348 | M25 | 140 | 160 | 100 | 257 | 12 | 63 | 28 | 60 | 31 | 8 | 6306 ZZ | 6205 ZZ | 30*47*7 | - |
| 0.80-3.10 | 2-4 | S2H100L2-4D | Aluminium | 206 | 348 | M25 | 140 | 160 | 100 | 257 | 12 | 63 | 28 | 60 | 31 | 8 | 6306 ZZ | 6205 ZZ | 30*47*7 | - |
| 1.10-4.40 | 2-4 | S2H112M2-4D | Aluminium | 228 | 380 | M25 | 140 | 190 | 112 | 277 | 12 | 70 | 28 | 60 | 31 | 8 | 6306 ZZ | 6205 ZZ | 30*47*7 | - |
| 1.50-6.00 | 2-4 | S2H132S2-4B | Aluminium | 291 | 490 | M32 | 140 | 216 | 132 | 323 | 12 | 89 | 38 | 80 | 41 | 10 | 6208 ZZ | 6208 ZZ | 40*62*10 | - |
| 2.00-8.00 | 2-4 | S2H132M2-4D | Aluminium | 291 | 490 | M32 | 140 | 216 | 132 | 323 | 12 | 89 | 38 | 80 | 41 | 10 | 6208 ZZ | 6208 ZZ | 40*62*10 | - |
| 3.00-12.00 | 2-4 | S2H160M2-4B | Aluminium | 345 | 538 | M32 | 210 | 254 | 160 | 374 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6209 ZZ | 45*72*10 | - |
| 4.00-16.00 | 2-4 | S2H160L2-4C | Aluminium | 345 | 568 | M32 | 210 | 254 | 160 | 374 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6209 ZZ | 45*72*10 | - |
| 5.00-20.00 | 2-4 | S2H180L2-4B | Aluminium | 346 | 683 | M40 | 241 | 279 | 180 | 430 | 15 | 121.5 | 48 | 110 | 51.5 | 14 | 6310 ZZ | 6310 ZZ | 50*80*10 | - |
| 6.30-25.00 | 2-4 | S2H180L2-4B | Aluminium | 346 | 683 | M40 | 241 | 279 | 180 | 430 | 15 | 121.5 | 48 | 110 | 51.5 | 14 | 6310 ZZ | 6310 ZZ | 50*80*10 | - |
| 8.50-33.00 | 2-4 | S2H200L2-4B | Aluminium | 346 | 692 | M40 | 267 | 318 | 200 | 450 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312 ZZ | 6310 ZZ | 60*90*10 | - |
| 9.00-37.00 | 2-4 | S2H225M2-4C | Aluminium | 442 | 695 | M40 | 286 | 356 | 225 | 500 | 18.5 | 149 | 60 | 140 | 64 | 18 | 6313 ZZ | 6313 ZZ | 65*100*13 | - |
| 12.00-46.00 | 2-4 | S2H225M2-4D | Aluminium | 442 | 695 | M40 | 286 | 356 | 225 | 500 | 18.5 | 149 | 60 | 140 | 64 | 18 | 6313 ZZ | 6313 ZZ | 65*100*13 | - |
| 15.00-55.00 | 2-4 | S2EP250M2-4C | Cast Iron | 522 | 795 | M50 | 311 | 406 | 250 | 578 | 24 | 168 | 65 | 140 | 69 | 18 | 6316 | 6316 | 90*130*10 | - |
| 20.00-75.00 | 2-4 | S2EP280M2-4B | Cast Iron | 550 | 929 | M50 | 368 | 457 | 280 | 612 | 24 | 190 | 75 | 140 | 79.5 | 20 | 6316 | 6316 | 90*130*10 | - |
| 0.15-0.60 | 4-8 | S2H80M4-8C | Aluminium | 173 | 263 | M20 | 100 | 125 | 80 | 213 | 10 | 50 | 19 | 40 | 215 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 0.20-0.80 | 4-8 | S2H80M4-8D | Aluminium | 173 | 263 | M20 | 100 | 125 | 80 | 213 | 10 | 50 | 19 | 40 | 215 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 0.30-1.20 | 4-8 | S2H90S4-8B | Aluminium | 189 | 308 | M25 | 100 | 140 | 90 | 238 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 0.40-1.60 | 4-8 | S2H90L4-8C | Aluminium | 189 | 346 | M25 | 100 | 140 | 90 | 238 | 10 | 56 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 0.50-2.00 | 4-8 | S2H100L4-8B | Aluminium | 206 | 348 | M25 | 140 | 160 | 100 | 257 | 12 | 63 | 28 | 60 | 31 | 8 | 6306 ZZ | 6205 ZZ | 30*47*7 | - |
| 0.70-2.80 | 4-8 | S2H100L4-8C | Aluminium | 206 | 348 | M25 | 140 | 160 | 100 | 257 | 12 | 63 | 28 | 60 | 31 | 8 | 6306 ZZ | 6205 ZZ | 30*47*7 | - |
| 1.00-3.80 | 4-8 | S2H112M4-8B | Aluminium | 228 | 380 | M25 | 140 | 190 | 112 | 277 | 12 | 70 | 28 | 60 | 31 | 8 | 6306 ZZ | 6205 ZZ | 30*47*7 | - |
| 1.30-5.00 | 4-8 | S2H132S4-8B | Aluminium | 291 | 490 | M32 | 140 | 216 | 132 | 323 | 12 | 89 | 38 | 80 | 41 | 10 | 6208 ZZ | 6208 ZZ | 40*62*10 | - |
| 1.80-7.20 | 4-8 | S2H132M4-8C | Aluminium | 291 | 490 | M32 | 140 | 216 | 132 | 323 | 12 | 89 | 38 | 80 | 41 | 10 | 6208 ZZ | 6208 ZZ | 40*62*10 | - |
| 3.50-14.00 | 4-8 | S2H160L4-8A | Aluminium | 345 | 536 | M32 | 210 | 254 | 160 | 374 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6209 ZZ | 45*72*10 | - |
| 3.00-11.00 | 4-8 | S2H160M4-8B | Aluminium | 345 | 538 | M32 | 210 | 254 | 160 | 374 | 14.5 | 108 | 42 | 110 | 45 | 12 | 6309 ZZ | 6209 ZZ | 45*72*10 | - |
| 4.30-17.00 | 4-8 | S2H180M4-8B | Aluminium | 346 | 632 | M40 | 241 | 279 | 180 | 430 | 15 | 121.5 | 48 | 110 | 51.5 | 14 | 6310 ZZ | 6310 ZZ | 50*80*10 | - |
| 5.00-20.00 | 4-8 | S2H180L4-8A | Aluminium | 346 | 632 | M40 | 241 | 279 | 180 | 430 | 15 | 121.5 | 48 | 110 | 51.5 | 14 | 6310 ZZ | 6310 ZZ | 50*80*10 | - |
| 6.50-28.00 | 4-8 | S2H200L4-8B | Aluminium | 346 | 692 | M40 | 267 | 318 | 200 | 450 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312 ZZ | 6310 ZZ | 60*90*10 | - |
| 8.00-30.00 | 4-8 | S2H200L4-8D | Aluminium | 346 | 692 | M40 | 267 | 318 | 200 | 450 | 18.5 | 133 | 55 | 110 | 59 | 16 | 6312 ZZ | 6310 ZZ | 60*90*10 | - |
| 9.20-37.00 | 4-8 | S2H225S4-8A | Aluminium | 442 | 695 | M40 | 286 | 356 | 225 | 500 | 18.5 | 149 | 60 | 140 | 64 | 18 | 6313 ZZ | 6313 ZZ | 65*100*13 | - |
| 11.00-44.00 | 4-8 | S2H225M4-8B | Aluminium | 442 | 695 | M40 | 286 | 356 | 225 | 500 | 18.5 | 149 | 60 | 140 | 64 | 18 | 6313 ZZ | 6313 ZZ | 65*100*13 | - |
| 14.70-55.00 | 4-8 | S2EP250L4-8D | Cast Iron | 522 | 795 | M50 | 311 | 406 | 250 | 578 | 24 | 168 | 65 | 140 | 69 | 18 | 6316 | 6316 | 90*130*10 | - |

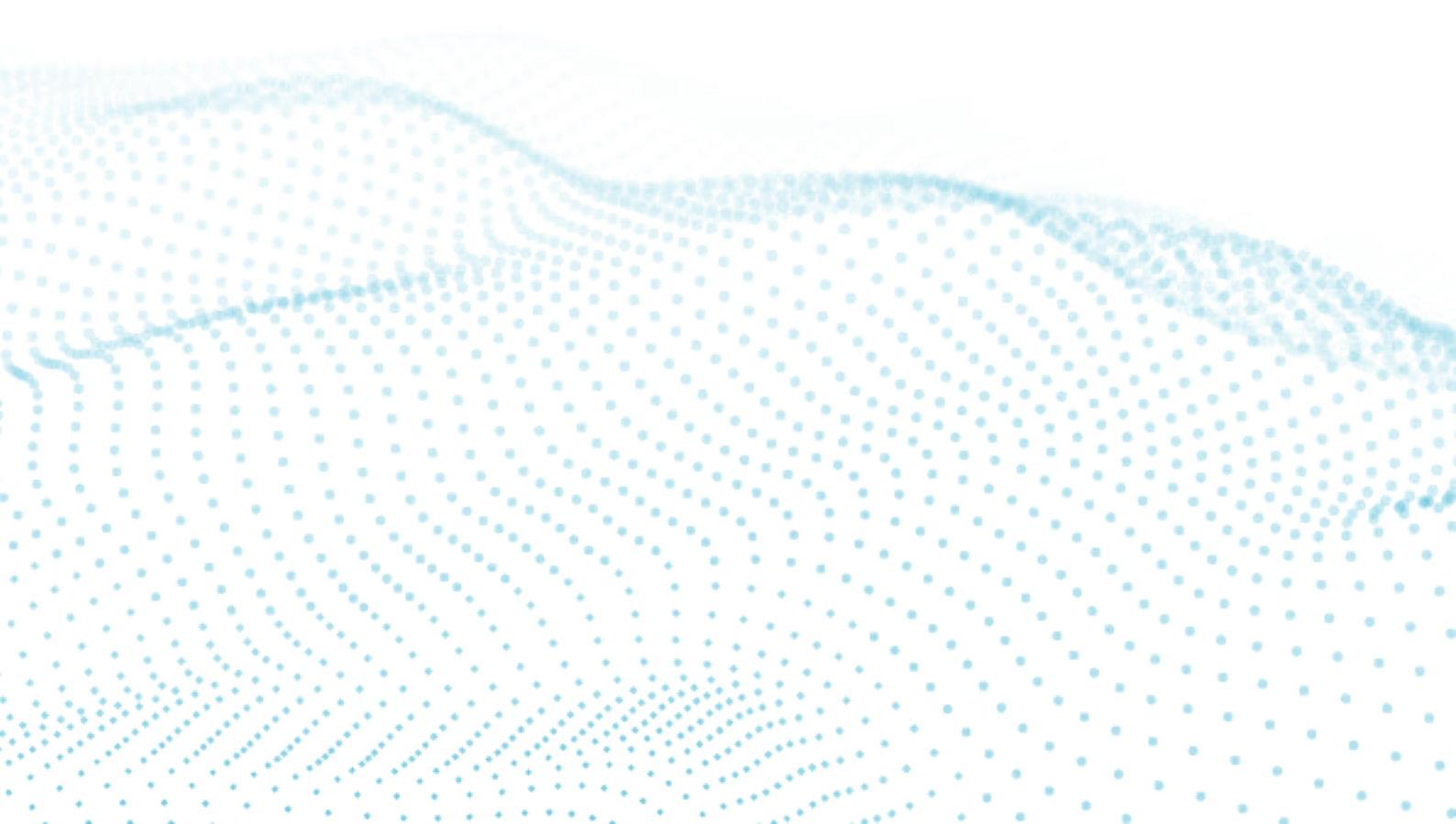
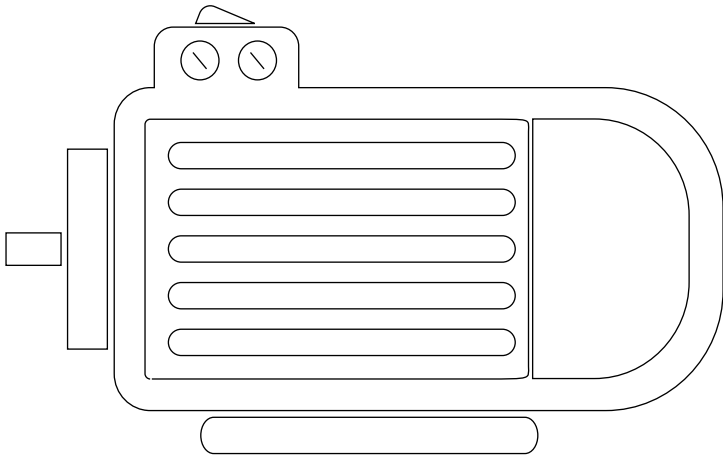
F300 PAD MOUNT SERIES DIMENSIONS



| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | | Foot&Terminal Cover Dimensions | | | | Shaft | | | | Bearing | | Seal | |
|------------|-----------------|---------------|--------------|-----------------|-----|-----|-------|--------------------------------|-----|-----|-----|-------|----|-----|---|------------|----------------|------------|----------------|
| | | | | AC | L | HD | O | LL | AD | H | HC | D | E | GA | F | Drive Side | Non drive Side | Drive Side | Non drive side |
| 0.75 | 2 | S2HPM80M2B | Aluminium | 154 | 238 | 210 | 1xM20 | 85 | 105 | 95 | 189 | 19 | 40 | 215 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 1.10 | 2 | S2HPM80M2C | Aluminium | 154 | 263 | 210 | 1xM20 | 85 | 105 | 95 | 189 | 19 | 40 | 215 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 1.50 | 2 | S2HPM90S2B | Aluminium | 171 | 308 | 234 | 1xM25 | 100 | 115 | 100 | 199 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 2.20 | 2 | S2HPM90L2C | Aluminium | 171 | 308 | 234 | 1xM25 | 100 | 115 | 100 | 199 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 3.00 | 2 | S2HPM100L2C | Aluminium | 193 | 348 | 252 | 1xM25 | 100 | 125 | 111 | 221 | 28 | 60 | 31 | 8 | 6306 ZZ | 6205 ZZ | 30*47*7 | - |
| 0.55 | 4 | S2HPM80M4B | Aluminium | 154 | 263 | 210 | 1xM20 | 85 | 105 | 95 | 189 | 19 | 40 | 215 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 0.75 | 4 | S2HPM80M4C | Aluminium | 154 | 238 | 210 | 1xM20 | 85 | 105 | 95 | 191 | 19 | 40 | 215 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 1.10 | 4 | S2HPM90S4B | Aluminium | 171 | 308 | 234 | 1xM25 | 100 | 115 | 100 | 199 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 1.50 | 4 | S2HPM90L4C | Aluminium | 171 | 308 | 234 | 1xM25 | 100 | 115 | 100 | 199 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 2.20 | 4 | S2HPM100L4B | Aluminium | 193 | 348 | 252 | 1xM25 | 100 | 125 | 111 | 221 | 28 | 60 | 31 | 8 | 6306 ZZ | 6205 ZZ | 30*47*7 | - |
| 3.00 | 4 | S2HPM100L4C | Aluminium | 193 | 348 | 252 | 1xM25 | 100 | 125 | 111 | 221 | 28 | 60 | 31 | 8 | 6306 ZZ | 6205 ZZ | 30*47*7 | - |
| 0.20-0.80 | 2-4 | S2HPM80M2-4A | Aluminium | 154 | 238 | 210 | 1xM20 | 85 | 105 | 95 | 189 | 19 | 40 | 215 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 0.25-1.10 | 2-4 | S2HPM80M2-4B | Aluminium | 154 | 263 | 210 | 1xM20 | 85 | 105 | 95 | 189 | 19 | 40 | 215 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 0.37-1.50 | 2-4 | S2HPM90S2-4B | Aluminium | 172 | 308 | 234 | 1xM25 | 100 | 115 | 100 | 199 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 0.50-2.20 | 2-4 | S2HPM90L2-4C | Aluminium | 172 | 308 | 234 | 1xM25 | 100 | 115 | 100 | 199 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 0.65-2.50 | 2-4 | S2HPM100L2-4B | Aluminium | 193 | 348 | 252 | 1xM25 | 100 | 125 | 111 | 221 | 28 | 60 | 31 | 8 | 6306 ZZ | 6205 ZZ | 30*47*7 | - |
| 0.80-3.10 | 2-4 | S2HPM100L2-4D | Aluminium | 193 | 348 | 252 | 1xM25 | 100 | 125 | 111 | 221 | 28 | 60 | 31 | 8 | 6306 ZZ | 6205 ZZ | 30*47*7 | - |
| 0.15-0.60 | 4-8 | S2HPM80M4-8C | Aluminium | 154 | 263 | 210 | 1xM20 | 85 | 105 | 95 | 189 | 19 | 40 | 215 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 0.20-0.80 | 4-8 | S2HPM80M4-8D | Aluminium | 154 | 263 | 210 | 1xM20 | 85 | 105 | 95 | 189 | 19 | 40 | 215 | 6 | 6204 ZZ | 6204 ZZ | 20*30*7 | - |
| 0.30-1.20 | 4-8 | S2HPM90S4-8B | Aluminium | 172 | 308 | 234 | 1xM25 | 100 | 115 | 100 | 199 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 0.40-1.60 | 4-8 | S2HPM90L4-8C | Aluminium | 172 | 346 | 234 | 1xM25 | 100 | 115 | 100 | 199 | 24 | 50 | 27 | 8 | 6305 ZZ | 6205 ZZ | 25*40*7 | - |
| 0.55-2.20 | 4-8 | S2HPM100L4-8B | Aluminium | 193 | 348 | 252 | 1xM25 | 100 | 125 | 111 | 221 | 28 | 60 | 31 | 8 | 6306 ZZ | 6205 ZZ | 30*47*7 | - |
| 0.70-2.80 | 4-8 | S2HPM100L4-8C | Aluminium | 193 | 348 | 252 | 1xM25 | 100 | 125 | 111 | 221 | 28 | 60 | 31 | 8 | 6306 ZZ | 6205 ZZ | 30*47*7 | - |



BRAKE MOTORS



TECHNICAL DOCUMENTATION

Mechanical and electrical properties are same as standard type motors. Non-drive endshields are made of cast-iron

Brake Specifications

DC electromagnetic brakes with a safety-design are used in brake motors. Different brake voltages are available upon request.

Working Principle

When the supply fails, the springs make the armature plate press the brake disk and then motor automatically starts braking. When the brake being supplied, electromagnet pulls the armature plate then both the brake disk and motor shaft are set to free.

Brake Disk

Asbestos-free brake material is used with long-life friction rings.

| Type | Distance between Adjusting-ring and Electromagnet: "A" (in mm) | | | | | | | | | "A" |
|--------|--|-----|------|------|------|------|------|------|------|-------------------|
| | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | |
| Q3H80 | - | - | - | - | 0.1 | 3.2 | 5.4 | 7.6 | 9.8 | 12 |
| Q3H90 | - | - | - | - | - | 1.6 | 5.2 | 8.8 | 12.4 | 16 |
| Q3H100 | 3.5 | 7.0 | 14.5 | 14.0 | 17.5 | 21.0 | 24.5 | 28.0 | 31.5 | 35 |
| Q3H112 | - | 4.0 | 11.0 | 18.0 | 25.0 | 32.0 | 39.0 | 46.0 | 53.0 | 60 |
| | Breaking Torque Value (Kgm) | | | | | | | | | Max. Torque (Kgm) |

Braking Torque

Braking torque can be adjusted by ring. In the table shown below, you will find the distance "A" in order to obtain the braking torque requested. The variation in the wear of friction material which is subject to change in braking torque is given below.

Switching Times

Normal switching times are given in the table below. These values are subject to change according to load characteristics.

| Type | Normal switch-off time ms | Normal switch-on time ms | Fast switch-off time ms |
|--------|---------------------------|--------------------------|-------------------------|
| Q3H80 | 15 | 55 | 30 |
| Q3H90 | 15 | 65 | 40 |
| Q3H100 | 20 | 75 | 45 |
| Q3H112 | 25 | 180 | 85 |

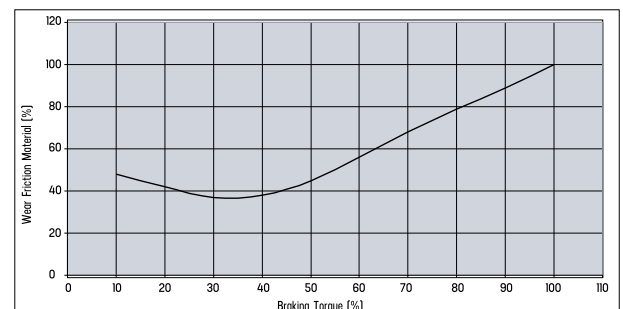
Special Constructions

The following special construction class features are possible upon request;

- Special shaft end
- Special flanges
- Different type bearings
- Fixed bearings
- IP55 protection class
- Different voltages an frequencies
- AC type brake

Air Gap

Ideal air-gap values are given in the table below. The maximum acceptable air-gap value is 0,7 mm. If this value is exceeded, the brake's performance will change and air gap must be adjusted again.



| Type | Q3H80 | Q3H90 | Q3H100 | Q3H112 |
|--------------------|-------|-------|--------|--------|
| Ideal Air-gap (mm) | 0,2 | 0,2 | 0,3 | 0,3 |

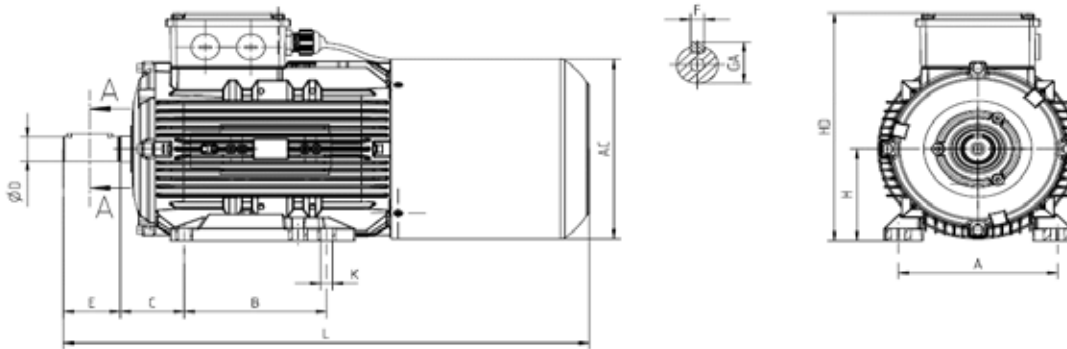
Rectifier Bridge

Normal Type (AS) half-wave rectifier is used as standard in motors. By using fast type (ASR) rectifier, it is possible to get fast switch on times which is shown on the table.

ELECTRICAL CHARACTERISTICS AT 50 Hz

| MOTOR TYPE | HOUSING TYPE | RATED VALUES | | | | | STARTING VALUES | | | | Breakdown Torque Ratio Mk/ Mn | EFFICIENCY ** η % | Cosφ 4/4 | Brake Max Torque kgm ² | J kgm ² | Weight (B3) kg | Sound Pressure Level dBA ** | |
|------------------------|--------------|--------------|------|-------|---------|--------|---------------------------------|------|--------|---------------------------------|----------------------------------|----------------------|-------------|--------------------------------------|-----------------------|-------------------|-----------------------------|----|
| | | POWER | | SPEED | CURRENT | TORQUE | CURRENT | | TORQUE | | | | | | | | | |
| | | kW | HP | rpm | A | Nm | I _A / I _N | λ | Δ | M _A / M _N | | λ | Δ | 4/4 | 4/4 | kgm ² | kgm ² | kg |
| 2 pole 3000 rpm | | | | | | | | | | | | | | | | | | |
| 230/400V | Q3H80M2A70 | Aluminium | 0.75 | 1 | 2890 | 1.6 | 2.5 | 8.3 | - | 3.7 | - | 4.2 | 80.7 | 0.85 | 12 | 0.0014 | 13 | 57 |
| | Q3H80M2B70 | Aluminium | 1.1 | 1.5 | 2890 | 2.3 | 3.6 | 9.1 | - | 3.9 | - | 4.3 | 82.7 | 0.85 | 12 | 0.0017 | 13 | 57 |
| | Q3H90S2A70 | Aluminium | 1.5 | 2 | 2930 | 3.0 | 4.9 | 11.3 | - | 3.8 | - | 5.0 | 84.2 | 0.85 | 16 | 0.0023 | 17 | 62 |
| | Q3H90L2A70 | Aluminium | 2.2 | 3 | 2917 | 4.3 | 7.2 | 9.2 | - | 3.1 | - | 4.9 | 85.9 | 0.87 | 16 | 0.0028 | 19 | 62 |
| | Q3H100L2A70 | Aluminium | 3 | 4 | 2925 | 5.5 | 9.8 | 11 | - | 3.9 | - | 4.7 | 87.1 | 0.90 | 35 | 0.0052 | 19 | 66 |
| 400/690V | Q3H112M2A70 | Aluminium | 4 | 5.5 | 2918 | 7.3 | 13.1 | 3.7 | 11.1 | 1.1 | 3.4 | 4.5 | 88.1 | 0.89 | 60 | 0.0056 | 32 | 68 |
| 4 pole 1500 rpm | | | | | | | | | | | | | | | | | | |
| 230/400V | Q3H80M4A70 | Aluminium | 0.55 | 3/4 | 1435 | 1.3 | 3.6 | 6.4 | - | 2.3 | - | 3.2 | 77.1 | 0.76 | 12 | 0.00175 | 10 | 49 |
| | Q3H80M4B70 | Aluminium | 0.75 | 1 | 1445 | 1.7 | 5.0 | 6.7 | - | 2.8 | - | 3.4 | 82.5 | 0.77 | 12 | 0.00261 | 13 | 52 |
| | Q3H90S4A70 | Aluminium | 1.1 | 1.5 | 1445 | 2.5 | 7.3 | 7.2 | - | 3.2 | - | 4.0 | 84.1 | 0.78 | 16 | 0.0043 | 19 | 54 |
| | Q3H90L4A70 | Aluminium | 1.5 | 2 | 1449 | 3.5 | 9.9 | 8.1 | - | 3.6 | - | 4.2 | 85.3 | 0.76 | 16 | 0.00526 | 20 | 54 |
| | Q3H100L4A70 | Aluminium | 2.2 | 3 | 1445 | 4.5 | 14.4 | 8.9 | - | 3.5 | - | 4.3 | 86.7 | 0.83 | 35 | 0.0081 | 26 | 55 |
| | Q3H100L4B70 | Aluminium | 3 | 4 | 1446 | 6.2 | 19.9 | 8.4 | - | 3.3 | - | 3.8 | 87.7 | 0.81 | 35 | 0.01059 | 31 | 56 |
| 400/690V | Q3H112M4B70 | Aluminium | 4 | 5.5 | 1452 | 8.2 | 26.5 | 9.1 | 3.0 | 1.1 | 3.3 | 4.1 | 88.6 | 0.80 | 60 | 0.01383 | 31 | 56 |
| 6 pole 1000 rpm | | | | | | | | | | | | | | | | | | |
| 230/400V | Q3H80M6A70 | Aluminium | 0.37 | 1/2 | 953 | 1.2 | 3.7 | 4.4 | - | 2.1 | - | 2.8 | 67.6 | 0.65 | 12 | 0.00261 | 10 | 52 |
| | Q3H80M6B70 | Aluminium | 0.55 | 3/4 | 942 | 1.6 | 5.6 | 4.1 | - | 1.8 | - | 2.3 | 73.1 | 0.70 | 12 | 0.00328 | 12 | 52 |
| | Q3H90S6A70 | Aluminium | 0.75 | 1 | 950 | 2.1 | 7.6 | 4.9 | - | 2.5 | - | 3.0 | 78.9 | 0.67 | 16 | 0.00460 | 18 | 53 |
| | Q3H90L6B70 | Aluminium | 1.1 | 1.5 | 950 | 3.0 | 11.1 | 4.5 | - | 2.6 | - | 2.9 | 81.0 | 0.67 | 16 | 0.00528 | 20 | 53 |
| | Q3H100L6A70 | Aluminium | 1.5 | 2 | 960 | 4.1 | 14.9 | 4.8 | - | 2.6 | - | 3.0 | 82.5 | 0.65 | 35 | 0.01059 | 26 | 55 |
| | Q3H112M6A70 | Aluminium | 2.2 | 3 | 957 | 5.2 | 22.0 | 4.9 | - | 2.7 | - | 3.0 | 84.3 | 0.71 | 60 | 0.01383 | 32 | 57 |

DIMENSION B3



| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | | Shaft | | | | Bearing | | Seal | |
|------------|-----------------|-------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|----|----|-------|----|------|---|------------|----------------|------------|----------------|
| | | | | AC | L | O | B | A | H | HD | K | C | D | E | GA | F | Drive Side | Non drive Side | Drive Side | Non drive side |
| 0.37 | 6 | Q3H80M6A70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| 0.55 | 4 | Q3H80M4A70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| 0.55 | 6 | Q3H80M6B70 | Aluminium | 158 | 365 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| 0.75 | 2 | Q3H80M2A70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| 0.75 | 4 | Q3H80M4B70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| 0.75 | 6 | Q3H90S6A70 | Aluminium | 176 | 420 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| 11 | 2 | Q3H80M2B70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 |
| 11 | 4 | Q3H90S4A70 | Aluminium | 176 | 460 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| 11 | 6 | Q3H90L6B70 | Aluminium | 176 | 420 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| 15 | 2 | Q3H90S2A70 | Aluminium | 176 | 420 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| 15 | 4 | Q3H90L4A70 | Aluminium | 176 | 460 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| 15 | 6 | Q3H100L6A70 | Aluminium | 196 | 482 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 |
| 2.2 | 2 | Q3H90L2A70 | Aluminium | 176 | 420 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 |
| 2.2 | 4 | Q3H100L4A70 | Aluminium | 196 | 482 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 |
| 2.2 | 6 | Q3H12M6A70 | Aluminium | 219 | 497 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 |
| 3 | 2 | Q3H100L2A70 | Aluminium | 196 | 482 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 |
| 3 | 4 | Q3H100L4B70 | Aluminium | 196 | 482 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 |
| 4 | 2 | Q3H12M2A70 | Aluminium | 219 | 497 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 |
| 4 | 4 | Q3H12M4B70 | Aluminium | 219 | 497 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 |

Dimensions are in mm.

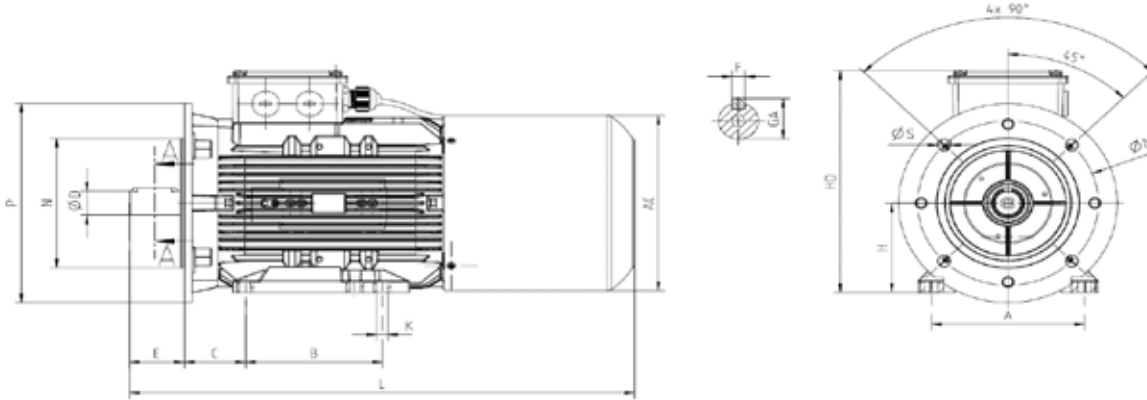
(1) Tolerance DIN EN 50347 "j6" up to f28mm., "k6" above f28mm.

(2) According to DIN 6885

(3) Tolerance DIN EN 50347 "j6"

(4) Lifting bolt is mounted from frame size 112 on

DIMENSION B5 - B35



| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | Shaft | | | | Bearing | | Seal | | Flange [FA] [B5] | | | | | |
|------------|-----------------|-------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|----|-------|------------------|----|------|------------------|------------|----------------|------------|------------------|-----|------------------|-----|---|------|
| | | | | AC | L | O | B | A | H | HD | K | C | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ⁽³⁾ | M | R | S |
| 0.37 | 6 | Q3H80M6A70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| 0.55 | 4 | Q3H80M4A70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| 0.55 | 6 | Q3H80M6B70 | Aluminium | 158 | 365 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 13 |
| 0.75 | 2 | Q3H80M2A70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| 0.75 | 4 | Q3H80M4B70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 13 |
| 0.75 | 6 | Q3H90S6A70 | Aluminium | 176 | 420 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 14 |
| 1.1 | 2 | Q3H80M2B70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 200 | 130 | 165 | - | 12 |
| 1.1 | 4 | Q3H90S4A70 | Aluminium | 176 | 460 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 14 |
| 1.1 | 6 | Q3H90L6B70 | Aluminium | 176 | 420 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 15 |
| 1.5 | 2 | Q3H90S2A70 | Aluminium | 176 | 420 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 12 |
| 1.5 | 4 | Q3H90L4A70 | Aluminium | 176 | 460 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 15 |
| 1.5 | 6 | Q3H100L6A70 | Aluminium | 196 | 482 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 250 | 180 | 215 | - | 14.5 |
| 2.2 | 2 | Q3H90L2A70 | Aluminium | 176 | 420 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 200 | 130 | 165 | - | 12 |
| 2.2 | 4 | Q3H100L4A70 | Aluminium | 196 | 482 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 250 | 180 | 215 | - | 14.5 |
| 2.2 | 6 | Q3H112M6A70 | Aluminium | 219 | 497 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 15.5 |
| 3 | 2 | Q3H100L2A70 | Aluminium | 196 | 482 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 250 | 180 | 215 | - | 14.5 |
| 3 | 4 | Q3H100L4B70 | Aluminium | 196 | 482 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 250 | 180 | 215 | - | 15.5 |
| 4 | 2 | Q3H112M2A70 | Aluminium | 219 | 497 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 15.5 |
| 4 | 4 | Q3H112M4B70 | Aluminium | 219 | 497 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 250 | 180 | 215 | - | 16.5 |

Dimensions are in mm.

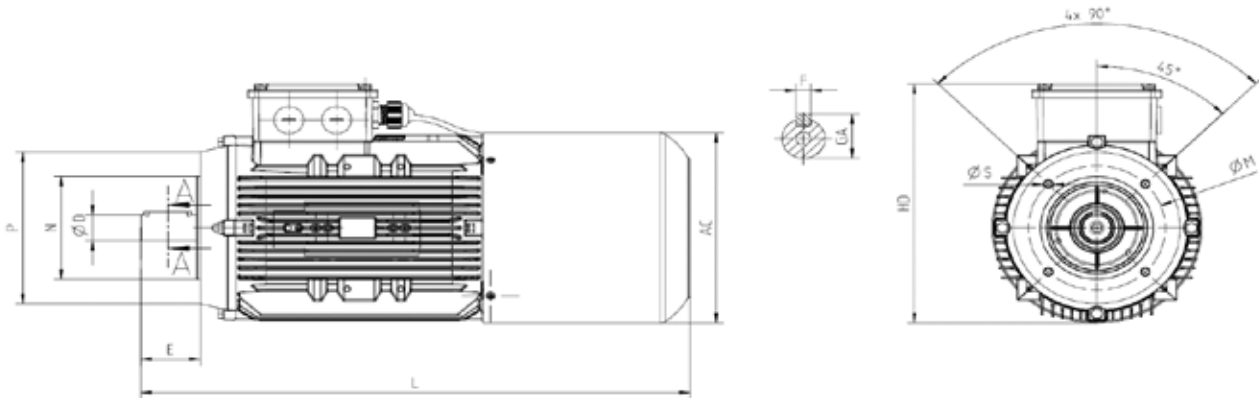
(1) Tolerance DIN EN 50347 "j6" up to f28mm., "k6" above f28mm.

(2) According to DIN 6885

(3) Tolerance DIN EN 50347 "j6"

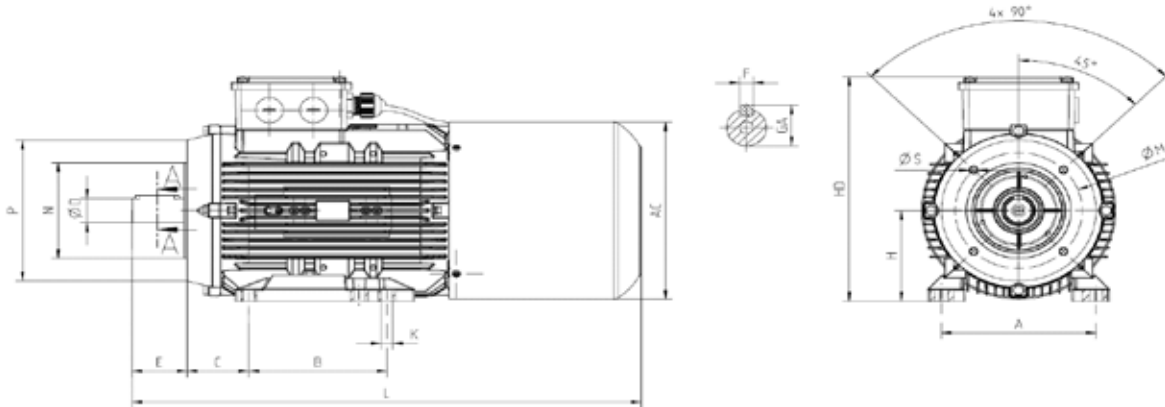
(4) Lifting bolt is mounted from frame size 112 on

DIMENSION B14a - 34a



| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | | Shaft | | | | Bearing | | Seal | | Flange [FA] [BS] | | | | |
|------------|-----------------|-------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|----|----|------------------|----|------|------------------|------------|----------------|------------|----------------|------------------|------------------|-----|---|----|
| | | | | AC | L | O | B | A | H | HD | K | C | D ^[1] | E | GA | F ^[2] | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ^[3] | M | R | S |
| 0.37 | 6 | Q3H80M6A70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| 0.55 | 4 | Q3H80M4A70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| 0.55 | 6 | Q3H80M6B70 | Aluminium | 158 | 365 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| 0.75 | 2 | Q3H80M2A70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| 0.75 | 4 | Q3H80M4B70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| 0.75 | 6 | Q3H90S6A70 | Aluminium | 176 | 420 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| 1.1 | 2 | Q3H80M2B70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 120 | 80 | 100 | - | M6 |
| 1.1 | 4 | Q3H90S4A70 | Aluminium | 176 | 460 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| 1.1 | 6 | Q3H90L6B70 | Aluminium | 176 | 420 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| 1.5 | 2 | Q3H90S2A70 | Aluminium | 176 | 420 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| 1.5 | 4 | Q3H90L4A70 | Aluminium | 176 | 460 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| 1.5 | 6 | Q3H100L6A70 | Aluminium | 196 | 482 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| 2.2 | 2 | Q3H90L2A70 | Aluminium | 176 | 420 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 140 | 95 | 115 | - | M8 |
| 2.2 | 4 | Q3H100L4A70 | Aluminium | 196 | 482 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| 2.2 | 6 | Q3H12M6A70 | Aluminium | 219 | 497 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| 3 | 2 | Q3H100L2A70 | Aluminium | 196 | 482 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| 3 | 4 | Q3H100L4B70 | Aluminium | 196 | 482 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| 4 | 2 | Q3H12M2A70 | Aluminium | 219 | 497 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |
| 4 | 4 | Q3H12M4B70 | Aluminium | 219 | 497 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 160 | 110 | 130 | - | M8 |

DIMENSION B14b - 34b



| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | Shaft | | | | Bearing | | Seal | | Flange [FA] [BS] | | | | | |
|------------|-----------------|-------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|----|-------|------------------|----|------|------------------|------------|----------------|------------|------------------|-----|------------------|-----|---|-----|
| | | | | AC | L | O | B | A | H | HD | K | C | D ^[1] | E | GA | F ^[2] | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ^[3] | M | R | S |
| 0.37 | 6 | Q3H80M6A70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| 0.55 | 4 | Q3H80M4A70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| 0.55 | 6 | Q3H80M6B70 | Aluminium | 158 | 365 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| 0.75 | 2 | Q3H80M2A70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| 0.75 | 4 | Q3H80M4B70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| 0.75 | 6 | Q3H90S6A70 | Aluminium | 176 | 420 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| 1.1 | 2 | Q3H80M2B70 | Aluminium | 158 | 340 | 1xM20 | 100 | 125 | 80 | 216 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-ZZ | 6204-ZZ | 20*30*7 | 20*30*7 | 160 | 110 | 130 | - | M8 |
| 1.1 | 4 | Q3H90S4A70 | Aluminium | 176 | 460 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| 1.1 | 6 | Q3H90L6B70 | Aluminium | 176 | 420 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| 1.5 | 2 | Q3H90S2A70 | Aluminium | 176 | 420 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| 1.5 | 4 | Q3H90L4A70 | Aluminium | 176 | 460 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| 1.5 | 6 | Q3H100L6A70 | Aluminium | 196 | 482 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 200 | 130 | 165 | - | M10 |
| 2.2 | 2 | Q3H90L2A70 | Aluminium | 176 | 420 | 1xM25 | 100-125 | 140 | 90 | 223 | 10 | 56 | 24 | 50 | 27 | 8 | 6305-ZZ | 6205-ZZ | 25*40*7 | 25*40*7 | 160 | 110 | 130 | - | M8 |
| 2.2 | 4 | Q3H100L4A70 | Aluminium | 196 | 482 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 200 | 130 | 165 | - | M10 |
| 2.2 | 6 | Q3H112M6A70 | Aluminium | 219 | 497 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| 3 | 2 | Q3H100L2A70 | Aluminium | 196 | 482 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 200 | 130 | 165 | - | M10 |
| 3 | 4 | Q3H100L4B70 | Aluminium | 196 | 482 | 1xM25 | 140 | 160 | 100 | 243 | 12 | 63 | 28 | 60 | 31 | 8 | 6306-ZZ | 6205-ZZ | 30*47*7 | 25*40*7 | 200 | 130 | 165 | - | M10 |
| 4 | 2 | Q3H112M2A70 | Aluminium | 219 | 497 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |
| 4 | 4 | Q3H112M4B70 | Aluminium | 219 | 497 | 1xM25 | 140 | 190 | 112 | 265 | 12 | 70 | 28 | 60 | 31 | 8 | 6306-ZZ | 6206-ZZ | 30*47*7 | 30*47*7 | 200 | 130 | 165 | - | M10 |

BRAKE KIT



Flexibility - Our IEC standard motors can easily be converted into a brake motor within minutes using our modular brake kit



BRAKE KIT NOMENCLATURE

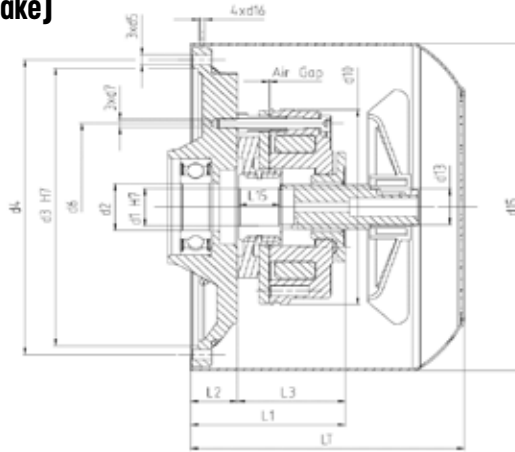
| Default [2 digit] | Frame [2 digit] | | NDE End-Shield Type [2 digit] | | Brand, rectifier [2 digit] | | Connection Diameter [3] | | Brake Gear [1 digit] | | Brake Voltage [3 digit] | | Other [1 digit] | Fan Cover Color [1 digit] | |
|-------------------|-----------------|----|---|----|-----------------------------|----|-------------------------|-----|----------------------|---|-------------------------|-----|---|---------------------------|---------------|
| FK | H80 | 08 | Normal, without friction plate | N0 | Without Brake | 00 | 72 | 072 | Small | S | Without Brake | 000 | Without dust seal, Without hand-release | X | Without Paint |
| | H90 | 09 | Deep, without friction plate | L0 | EMF, half wave | AA | 90 | 090 | Normal | N | 24V DC | 024 | With dust seal, without hand-release | A | RAL 6011 W |
| | HS90 | 08 | Normal, without friction plate, fixed NDE | N1 | EMF, full wave | AB | 112 | 112 | Large | L | 100V DC | 100 | Without dust seal, With hand-release | B | RAL 7015 H |
| | HI00 | 10 | Deep, without friction plate, fixed NDE | L1 | EMF, half wave, microswitch | AC | 132 | 132 | | | 180V DC | 180 | With dust seal, With hand-release | C | RAL 7030 L |
| | HSI00 | 09 | Normal, with friction plate | N2 | EMF, full wave, microswitch | AD | 145 | 145 | | | 220V AC | 220 | | | RAL 7031 0 |
| | HI12 | 11 | Deep, with friction plate | L2 | Temporiti, 1 | BA | 170 | 170 | | | 230V AC | 230 | | | |
| | HSI12 | 10 | Normal, with friction plate, fixed NDE | N3 | Temporiti, 2 | BB | 196 | 196 | | | 380V AC | 380 | | | |
| | HI32 | 13 | Deep, with friction plate, fixed NDE | L3 | Temporiti, 3 | BC | | | | | 400V AC | 400 | | | |
| | HSI32 | 11 | | | Temporiti, 4 | BD | | | | | | | | | |
| | HI60 | 16 | | | Intorq | CA | | | | | | | | | |
| | HSI60 | 13 | | | Precima | DA | | | | | | | | | |
| | HI80 | 18 | | | Dereli | EA | | | | | | | | | |
| | H200 | 20 | | | | | | | | | | | | | |

| Brake Connection Diameter | Gear Size | Gear Hub Dimension | | |
|---------------------------|-----------|--------------------|------|-------|
| 090 | N | 20x20 | 090N | 20x20 |
| 112 | S | 15x20 | 112S | 15x20 |
| 112 | N | 20x20 | 112N | 20x20 |
| 132 | S | 20x20 | 132S | 20x20 |
| 132 | N | 25x25 | 132N | 25x25 |
| 145 | S | 20x20 | 145S | 20x20 |
| 145 | N | 25x25 | 145N | 25x25 |
| 170 | S | 25x25 | 170S | 25x25 |
| 170 | N | 35x30 | 170N | 35x30 |
| 196 | N | 35x30 | 196N | 35x30 |

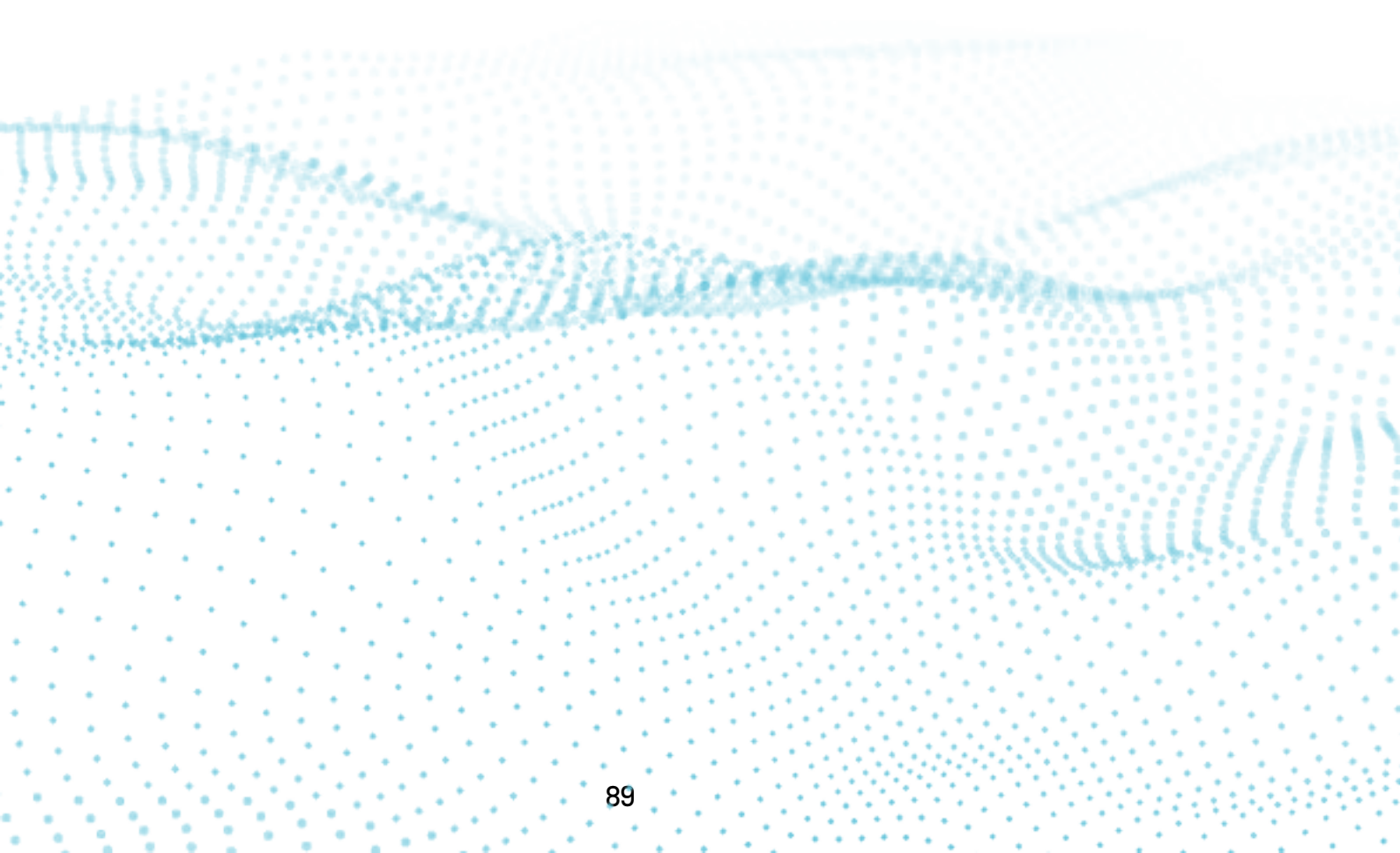
| Motor information | | | | BRAKE KIT [W/O Brake] | | BRAKE KIT [w/ EMF Brake] | | | |
|-------------------|------------|-------------------|---------------|-----------------------|------------------|--------------------------|--------------------|------------------|--------------------|
| | | | | Light braking | Heavy braking | Light braking | | Heavy braking | |
| Common SKU | Motor Type | Motor torque [Nm] | Motor voltage | Brake kit code | Brake kit code | Brake kit code | Safety coefficient | Brake kit code | Safety coefficient |
| Q3H80M2C | S | 2.48 | 230/400V | FK08N000090N000X | FK08N000090N000X | FK08N0AA090N100X | 3.23 - 4.84 | FK08N0AA090N100X | 3.23 - 4.84 |
| Q3H80M2D | S | 3.63 | 230/400V | FK08N000090N000X | FK08N000090N000X | FK08N0AA090N100X | 2.2 - 3.31 | FK08N0AA090N100X | 2.2 - 3.31 |
| Q3H80M4D | S | 4.96 | 230/400V | FK08N000090N000X | FK08N000090N000X | FK08N0AA090N100X | 1.61 - 2.42 | FK08N0AA090N100X | 1.61 - 2.42 |
| Q3H80M2DE | C | 4.93 | 230/400V | FK08L000090N000X | FK08L000090N000X | FK08L0AA090N100X | 1.62 - 2.43 | FK08L0AA090N100X | 1.62 - 2.43 |
| Q3H80M4DE | C | 7.25 | 230/400V | FK08L000090N000X | FK08L000112N000X | FK08L0AA090N100X | 1.1 - 1.66 | FK08L0AA112N100X | 2.21 - 3.59 |
| Q2H80M2B | S | 2.51 | 230/400V | FK08N000090N000X | FK08N000090N000X | FK08N0AA090N100X | 3.19 - 4.78 | FK08N0AA090N100X | 3.19 - 4.78 |
| Q2H80M2C | S | 3.67 | 230/400V | FK08N000090N000X | FK08N000090N000X | FK08N0AA090N100X | 2.18 - 3.27 | FK08N0AA090N100X | 2.18 - 3.27 |
| Q2H80M4B | S | 3.66 | 230/400V | FK08N000090N000X | FK08N000090N000X | FK08N0AA090N100X | 2.19 - 3.28 | FK08N0AA090N100X | 2.19 - 3.28 |
| Q2H80M4C | S | 4.97 | 230/400V | FK08N000090N000X | FK08N000090N000X | FK08N0AA090N100X | 1.61 - 2.41 | FK08N0AA090N100X | 1.61 - 2.41 |
| Q2H80M2D | C | 4.98 | 230/400V | FK08N000090N000X | FK08N000090N000X | FK08N0AA090N100X | 1.61 - 2.41 | FK08N0AA090N100X | 1.61 - 2.41 |
| Q2H80M2DE | C | 7.32 | 230/400V | FK08L000090N000X | FK08L000112N000X | FK08L0AA090N100X | 1.09 - 1.64 | FK08L0AA112N100X | 2.19 - 3.55 |
| Q2H80M4D | C | 7.35 | 230/400V | FK08N000090N000X | FK08N000112N000X | FK08N0AA090N100X | 1.09 - 1.63 | FK08N0AA112N100X | 2.18 - 3.54 |
| Q2H80M4DE | C | 10.04 | 230/400V | FK08L000090N000X | FK08L000112N000X | FK08L0AA090N100X | 0.8 - 1.2 | FK08L0AA112N100X | 1.59 - 2.59 |
| Q3H80M4C | S | 3.61 | 230/400V | FK08N000090N000X | FK08N000090N000X | FK08N0AA090N100X | 2.22 - 3.32 | FK08N0AA090N100X | 2.22 - 3.32 |
| Q3H80M6A | S | 3.76 | 230/400V | FK08L000090N000X | FK08L000090N000X | FK08L0AA090N100X | 2.13 - 3.19 | FK08L0AA090N100X | 2.13 - 3.19 |
| Q3H80M6B | S | 5.59 | 230/400V | FK08L000090N000X | FK08L000112N000X | FK08L0AA090N100X | 1.43 - 2.15 | FK08L0AA112N100X | 2.86 - 4.65 |
| Q3H90L2C | S | 4.97 | 230/400V | FK09N000090N000X | FK09N000090N000X | FK09N0AA090N100X | 1.61 - 2.41 | FK09N0AA090N100X | 1.61 - 2.41 |
| Q3H90L2D | S | 7.2 | 230/400V | FK09N000090N000X | FK09N000112N000X | FK09N0AA090N100X | 1.11 - 1.67 | FK09N0AA112N100X | 2.22 - 3.61 |
| Q3H90L4C | S | 7.62 | 230/400V | FK09N000090N000X | FK09N000112N000X | FK09N0AA090N100X | 1.05 - 1.57 | FK09N0AA112N100X | 2.1 - 3.41 |
| Q3H90L4D | S | 9.89 | 230/400V | FK09N000090N000X | FK09N000112N000X | FK09N0AA090N100X | 0.81 - 1.21 | FK09N0AA112N100X | 1.62 - 2.63 |
| Q3H90L6C | S | 7.54 | 230/400V | FK09N000090N000X | FK09N000112N000X | FK09N0AA090N100X | 1.06 - 1.59 | FK09N0AA112N100X | 2.12 - 3.45 |
| Q3H90L6D | S | 11.06 | 230/400V | FK09N000090N000X | FK09N000112N000X | FK09N0AA090N100X | 0.72 - 1.08 | FK09N0AA112N100X | 1.45 - 2.35 |
| Q3H90L2E | C | 9.91 | 230/400V | FK09N000090N000X | FK09N000112N000X | FK09N0AA090N100X | 0.81 - 1.21 | FK09N0AA112N100X | 1.61 - 2.62 |
| Q3H90L4DE | C | 14.46 | 230/400V | FK09L000112N000X | FK09L000132S000X | FK09L0AA112N100X | 1.11 - 1.8 | FK09L0AA132S100X | 1.8 - 3.32 |
| Q2H90S6B | S | 7.6 | 230/400V | FK09N000090N000X | FK09N000112N000X | FK09N0AA090N100X | 1.05 - 1.58 | FK09N0AA112N100X | 2.11 - 3.42 |
| Q2H90L6C | S | 11.2 | 230/400V | FK09N000090N000X | FK09N000112N000X | FK09N0AA090N100X | 0.71 - 1.07 | FK09N0AA112N100X | 1.43 - 2.32 |
| Q2H90L2D | C | 9.92 | 230/400V | FK09N000090N000X | FK09N000112N000X | FK09N0AA090N100X | 0.81 - 1.21 | FK09N0AA112N100X | 1.61 - 2.62 |
| Q2H90L4D | C | 14.62 | 230/400V | FK09N000112N000X | FK09N000132S000X | FK09N0AA112N100X | 1.09 - 1.78 | FK09N0AA132S100X | 1.78 - 3.28 |
| Q2H90L4DE | C | 19.9 | 230/400V | FK09L000112N000X | FK09L000132S000X | FK09L0AA112N100X | 0.8 - 1.31 | FK09L0AA132S100X | 1.31 - 2.41 |
| Q2H90L2DE | SC | 13.11 | 400/690V | FK09L000112N000X | FK09L000132S000X | FK09L0AA112N180X | 1.22 - 1.98 | FK09L0AA132S180X | 1.98 - 3.66 |
| Q3HS90S2C | S | 4.92 | 230/400V | FK08L000090N000X | FK08L000112N000X | FK08L0AA090N100X | 1.63 - 2.44 | FK08L0AA112N100X | 3.25 - 5.28 |
| Q3HS90S4C | S | 7.26 | 230/400V | FK08L000090N000X | FK08L000112N000X | FK08L0AA090N100X | 1.1 - 1.65 | FK08L0AA112N100X | 2.2 - 3.58 |
| Q2HS90S2B | S | 4.98 | 230/400V | FK08N000090N000X | FK08N000112N000X | FK08N0AA090N100X | 1.61 - 2.41 | FK08N0AA112N100X | 3.21 - 5.22 |
| Q2HS90L2C | S | 7.32 | 230/400V | FK08L000090N000X | FK08L000112N000X | FK08L0AA090N100X | 1.09 - 1.64 | FK08L0AA112N100X | 2.19 - 3.55 |
| Q2HS90S4B | S | 7.35 | 230/400V | FK08N000090N000X | FK08N000112N000X | FK08N0AA090N100X | 1.09 - 1.63 | FK08N0AA112N100X | 2.18 - 3.54 |
| Q2HS90L4C | S | 10.04 | 230/400V | FK08L000090N000X | FK08L000112N000X | FK08L0AA090N100X | 0.8 - 1.2 | FK08L0AA112N100X | 1.59 - 2.59 |
| Q3H100L4C | S | 14.49 | 230/400V | FK10N000132N000X | FK10N000132N000X | FK10N0AA132N100X | 1.79 - 3.31 | FK10N0AA132N100X | 1.79 - 3.31 |
| Q3H100L4D | S | 19.81 | 230/400V | FK10N000132N000X | FK10N000145N000X | FK10N0AA132N100X | 1.31 - 2.42 | FK10N0AA145N100X | 2.27 - 4.04 |
| Q3H100L6D | S | 14.92 | 230/400V | FK10N000132N000X | FK10N000132N000X | FK10N0AA132N100X | 1.74 - 3.22 | FK10N0AA132N100X | 1.74 - 3.22 |
| Q3H100L2DE | C | 13.01 | 400/690V | FK10N000112N000X | FK10N000132S000X | FK10N0AA112N180X | 1.23 - 2 | FK10N0AA132S180X | 2 - 3.69 |
| Q3H100L4E | C | 26.44 | 400/690V | FK10L000132N000X | FK10L000145N000X | FK10L0AA132N180X | 0.98 - 1.82 | FK10L0AA145N180X | 1.7 - 3.03 |
| Q3H100L2D | S | 9.73 | 230/400V | FK10N000112N000X | FK10N000132S000X | FK10N0AA112N100X | 1.64 - 2.67 | FK10N0AA132S100X | 2.67 - 4.93 |
| Q3H100L2E | SC | 17.91 | 400/690V | FK10L000132N000X | FK10L000145N000X | FK10L0AA132N180X | 1.45 - 2.68 | FK10L0AA145N180X | 2.51 - 4.47 |
| Q2H100L6C | S | 15 | 230/400V | FK10N000132N000X | FK10N000132N000X | FK10N0AA132N100X | 1.73 - 3.2 | FK10N0AA132N100X | 1.73 - 3.2 |
| Q2H100L4D | C | 26.53 | 400/690V | FK10N000132N000X | FK10N000145N000X | FK10N0AA132N180X | 0.98 - 1.81 | FK10N0AA145N180X | 1.7 - 3.02 |
| Q2H100L2DE | SC | 18.05 | 400/690V | FK10N000112N000X | FK10N000132S000X | FK10N0AA112N180X | 0.89 - 1.44 | FK10N0AA132S180X | 1.44 - 2.66 |
| Q2H100L2E | SC | 24.74 | 400/690V | FK10L000132N000X | FK10L000145N000X | FK10L0AA132N180X | 1.05 - 1.94 | FK10L0AA145N180X | 1.82 - 3.23 |
| Q3HS100L2C | S | 9.91 | 230/400V | FK09N000090N000X | FK09N000112N000X | FK09N0AA090N100X | 0.81 - 1.21 | FK09N0AA112N100X | 1.61 - 2.62 |
| Q3HS100L4C | S | 14.56 | 230/400V | FK09L000112N000X | FK09L000132S000X | FK09L0AA112N100X | 1.1 - 1.79 | FK09L0AA132S100X | 1.79 - 3.3 |
| Q2HS100L2B | S | 9.92 | 230/400V | FK09N000090N000X | FK09N000112N000X | FK09N0AA090N100X | 0.81 - 1.21 | FK09N0AA112N100X | 1.61 - 2.62 |
| Q2HS100L4B | S | 14.62 | 230/400V | FK09N000112N000X | FK09N000132S000X | FK09N0AA112N100X | 1.09 - 1.78 | FK09N0AA132S100X | 1.78 - 3.28 |
| Q2HS100L4C | S | 19.9 | 230/400V | FK09L000132N000X | FK09L000132N000X | FK09L0AA132N100X | 1.31 - 2.41 | FK09L0AA132N100X | 1.31 - 2.41 |
| Q2HS100L2C | C | 13.11 | 400/690V | FK09L000112N000X | FK09L000132S000X | FK09L0AA112N180X | 1.22 - 1.98 | FK09L0AA132S180X | 1.98 - 3.66 |
| Q3H112M4D | S | 26.31 | 400/690V | FK11N000132N000X | FK11N000145N000X | FK11N0AA132N180X | 0.99 - 1.82 | FK11N0AA145N180X | 1.71 - 3.04 |
| Q3H112M6D | S | 21.95 | 230/400V | FK11N000132N000X | FK11N000145N000X | FK11N0AA132N100X | 1.18 - 2.19 | FK11N0AA145N100X | 2.05 - 3.64 |
| Q3H112M2C | S | 13.04 | 400/690V | FK11N000132N000X | FK11N000132N000X | FK11N0AA132N180X | 1.99 - 3.68 | FK11N0AA132N180X | 1.99 - 3.68 |
| Q3H112M2D | C | 17.99 | 400/690V | FK11N000132N000X | FK11N000145N000X | FK11N0AA132N180X | 1.45 - 2.67 | FK11N0AA145N180X | 2.5 - 4.45 |

| Motor information | | | | BRAKE KIT [W/O Brake] | | BRAKE KIT [w/ EMF Brake] | | | |
|-------------------|------------|-------------------|---------------|-----------------------|------------------|--------------------------|--------------------|------------------|--------------------|
| | | | | Light braking | Heavy braking | Light braking | | Heavy braking | |
| Common SKU | Motor Type | Motor torque [Nm] | Motor voltage | Brake kit code | Brake kit code | Brake kit code | Safety coefficient | Brake kit code | Safety coefficient |
| Q3HI2M2DE | C | 24.55 | 400/690V | FK11L000132N000X | FK11L000145N000X | FK11LOAA132N180X | 1.06 - 1.96 | FK11LOAA145N180X | 1.83 - 3.26 |
| Q3HI2M4E | C | 36.4 | 400/690V | FK11L000132N000X | FK11L000145N000X | FK11LOAA132N180X | 0.71 - 1.32 | FK11LOAA145N180X | 1.24 - 2.2 |
| Q2HI2M6C | S | 22.3 | 230/400V | FK11N000132N000X | FK11N000145N000X | FK11NOAA132N100X | 1.17 - 2.15 | FK11NOAA145N100X | 2.02 - 3.59 |
| Q2HI2M4D | C | 36.35 | 400/690V | FK11N000132N000X | FK11N000145N000X | FK11NOAA132N180X | 0.72 - 1.32 | FK11NOAA145N180X | 1.24 - 2.2 |
| Q3HSI2M2C | S | 13.01 | 400/690V | FK10N000112N000X | FK10N000132S000X | FK10NOAA112N180X | 1.23 - 2 | FK10NOAA132S180X | 2 - 3.69 |
| Q2HSI2M2B | S | 13.17 | 400/690V | FK10N000112N000X | FK10N000132S000X | FK10NOAA112N180X | 1.21 - 1.97 | FK10NOAA132S180X | 1.97 - 3.64 |
| Q2HSI2M4C | S | 26.53 | 400/690V | FK10N000132N000X | FK10N000145N000X | FK10NOAA132N180X | 0.98 - 1.81 | FK10NOAA145N180X | 1.7 - 3.02 |
| Q2HSI2M2C | C | 18.05 | 400/690V | FK10N000112N000X | FK10N000132S000X | FK10NOAA112N180X | 0.89 - 1.44 | FK10NOAA132S180X | 1.44 - 2.66 |
| Q2HSI2M2D | C | 24.74 | 400/690V | FK10N000132N000X | FK10N000145N000X | FK10NOAA132N180X | 1.05 - 1.94 | FK10NOAA145N180X | 1.82 - 3.23 |
| Q4HI32S2D | S | 17.84 | 400/690V | FK13N000132N000X | FK13N000145N000X | FK13NOAA132N180X | 1.46 - 2.69 | FK13NOAA145N180X | 2.52 - 4.48 |
| Q4HI32S2DE | S | 24.39 | 400/690V | FK13N000132N000X | FK13N000145N000X | FK13NOAA132N180X | 1.07 - 1.97 | FK13NOAA145N180X | 1.85 - 3.28 |
| Q4HI32S4C | S | 35.63 | 400/690V | FK13N000145N000X | FK13N000170S000X | FK13NOAA145N180X | 1.26 - 2.25 | FK13NOAA170S180X | 2.25 - 3.37 |
| Q4HI32M4E | S | 48.89 | 400/690V | FK13N000145N000X | FK13N000170S000X | FK13NOAA145N180X | 0.92 - 1.64 | FK13NOAA170S180X | 1.64 - 2.45 |
| Q3HI32S4B | S | 35.8 | 400/690V | FK13N000145N000X | FK13N000170S000X | FK13NOAA145N180X | 1.26 - 2.23 | FK13NOAA170S180X | 2.23 - 3.35 |
| Q3HI32M4D | S | 48.82 | 400/690V | FK13N000145N000X | FK13N000170S000X | FK13NOAA145N180X | 0.92 - 1.64 | FK13NOAA170S180X | 1.64 - 2.46 |
| Q3HI32S6A | S | 29.29 | 230/400V | FK13N000132N000X | FK13N000145N000X | FK13NOAA132N100X | 0.89 - 1.64 | FK13NOAA145N100X | 1.54 - 2.73 |
| Q3HI32M6A | S | 39.18 | 400/690V | FK13N000145N000X | FK13N000170S000X | FK13NOAA145N180X | 1.15 - 2.04 | FK13NOAA170S180X | 2.04 - 3.06 |
| Q3HI32M6B | S | 54.09 | 400/690V | FK13N000170N000X | FK13N000170N000X | FK13NOAA170N180X | 1.48 - 2.22 | FK13NOAA170N180X | 1.48 - 2.22 |
| Q3HI32S2C | S | 17.99 | 400/690V | FK13N000132N000X | FK13N000145N000X | FK13NOAA132N180X | 1.45 - 2.67 | FK13NOAA145N180X | 2.5 - 4.45 |
| Q3HI32S2D | S | 24.28 | 400/690V | FK13N000132N000X | FK13N000145N000X | FK13NOAA132N180X | 1.07 - 1.98 | FK13NOAA145N180X | 1.85 - 3.29 |
| Q3HI32M2A | C | 35.91 | 400/690V | FK13N000145N000X | FK13N000170S000X | FK13NOAA145N180X | 1.25 - 2.23 | FK13NOAA170S180X | 2.23 - 3.34 |
| Q3HI32M2B | C | 48.81 | 400/690V | FK13L000145N000X | FK13L000170S000X | FK13LOAA145N180X | 0.92 - 1.64 | FK13LOAA170S180X | 1.64 - 2.46 |
| Q3HI32M4E | C | 71.46 | 400/690V | FK13L000170N000X | FK13L000196N000X | FK13LOAA170N180X | 1.12 - 1.68 | FK13LOAA196N180X | 1.82 - 3.36 |
| Q2HI32M4C | S | 49.06 | 400/690V | FK13N000145N000X | FK13N000170S000X | FK13NOAA145N180X | 0.92 - 1.63 | FK13NOAA170S180X | 1.63 - 2.45 |
| Q2HI32S6A | S | 29.69 | 230/400V | FK13N000132N000X | FK13N000145N000X | FK13NOAA132N100X | 0.88 - 1.62 | FK13NOAA145N100X | 1.52 - 2.69 |
| Q2HI32M6A | S | 39.38 | 400/690V | FK13N000145N000X | FK13N000170S000X | FK13NOAA145N180X | 1.14 - 2.03 | FK13NOAA170S180X | 2.03 - 3.05 |
| Q2HI32M6B | S | 54.71 | 400/690V | FK13N000145N000X | FK13N000170S000X | FK13NOAA145N180X | 0.82 - 1.46 | FK13NOAA170S180X | 1.46 - 2.19 |
| Q2HI32M2A | C | 35.94 | 400/690V | FK13N000145N000X | FK13N000170S000X | FK13NOAA145N180X | 1.25 - 2.23 | FK13NOAA170S180X | 2.23 - 3.34 |
| Q2HI32M2B | C | 49.14 | 400/690V | FK13N000145N000X | FK13N000170S000X | FK13NOAA145N180X | 0.92 - 1.63 | FK13NOAA170S180X | 1.63 - 2.44 |
| Q2HI32M2C | C | 60.3 | 400/690V | FK13L000170N000X | FK13L000196N000X | FK13LOAA170N180X | 1.33 - 1.99 | FK13LOAA196N180X | 2.16 - 3.98 |
| Q2HI32M4D | C | 71.56 | 400/690V | FK13L000170N000X | FK13L000196N000X | FK13LOAA170N180X | 1.12 - 1.68 | FK13LOAA196N180X | 1.82 - 3.35 |
| Q2HI32M4E | C | 97.98 | 400/690V | FK13L000170N000X | FK13L000196N000X | FK13LOAA170N180X | 0.82 - 1.22 | FK13LOAA196N180X | 1.33 - 2.45 |
| Q3HSI32S2C | S | 18 | 400/690V | FK11N000132N000X | FK11N000145N000X | FK11NOAA132N180X | 1.44 - 2.67 | FK11NOAA145N180X | 2.5 - 4.44 |
| Q3HSI32S2D | S | 24.55 | 400/690V | FK11L000132N000X | FK11L000145N000X | FK11LOAA132N180X | 1.06 - 1.96 | FK11LOAA145N180X | 1.83 - 3.26 |
| Q2HSI32S2B | S | 18.02 | 400/690V | FK11N000132N000X | FK11N000145N000X | FK11NOAA132N180X | 1.44 - 2.66 | FK11NOAA145N180X | 2.5 - 4.44 |
| Q2HSI32S2C | S | 24.7 | 400/690V | FK11N000132N000X | FK11N000145N000X | FK11NOAA132N180X | 1.05 - 1.94 | FK11NOAA145N180X | 1.82 - 3.24 |
| Q2HSI32S4A | S | 36.35 | 400/690V | FK11N000132N000X | FK11N000145N000X | FK11NOAA132N180X | 0.72 - 1.32 | FK11NOAA145N180X | 1.24 - 2.2 |
| Q3HI00L6C | S | 11.06 | 230/400V | FK10N000112N000X | FK10N000112N000X | FK10NOAA112N100X | 1.45 - 2.35 | FK10NOAA112N100X | 1.45 - 2.35 |
| Q4HI00L2D | S | 9.71 | 230/400V | FK10N000112N000X | FK10N000132S000X | FK10NOAA112N100X | 1.65 - 2.68 | FK10NOAA132S100X | 2.68 - 4.94 |
| Q4HI00L4E | S | 20.11 | 230/400V | FK10L000132N000X | FK10L000145N000X | FK10LOAA132N100X | 1.29 - 2.39 | FK10LOAA145N100X | 2.24 - 3.98 |
| Q4HI2M4E | S | 26.71 | 400/690V | FK11L000132N000X | FK11L000145N000X | FK11LOAA132N180X | 0.97 - 1.8 | FK11LOAA145N180X | 1.68 - 3 |
| Q3HI32S2DE | C | 29.09 | 400/690V | FK13N000132N000X | FK13N000145N000X | FK13NOAA132N180X | 0.89 - 1.65 | FK13NOAA145N180X | 1.55 - 2.75 |
| Q4HI32M2AE | C | 35.73 | 400/690V | FK13L000145N000X | FK13L000170S000X | FK13LOAA145N180X | 1.26 - 2.24 | FK13LOAA170S180X | 2.24 - 3.36 |
| Q4H80M2D | S | 2.43 | 230/400V | FK08N000090N000X | FK08N000090N000X | FK08NOAA090N100X | 3.29 - 4.94 | FK08NOAA090N100X | 3.29 - 4.94 |
| Q4H80M4E | S | 5.08 | 230/400V | FK08L000090N000X | FK08L000090N000X | FK08LOAA090N100X | 1.57 - 2.36 | FK08LOAA090N100X | 1.57 - 2.36 |
| Q3H90L4E | S | 10.2 | 230/400V | FK09N000090N000X | FK09N000112N000X | FK09NOAA090N100X | 0.78 - 1.18 | FK09NOAA112N100X | 1.57 - 2.55 |
| Q4H90L2D | S | 4.86 | 230/400V | FK09N000090N000X | FK09N000090N000X | FK09NOAA090N100X | 1.65 - 2.47 | FK09NOAA090N100X | 1.65 - 2.47 |
| Q4H90L2E | S | 7.11 | 230/400V | FK09N000090N000X | FK09N000112N000X | FK09NOAA090N100X | 1.13 - 1.69 | FK09NOAA112N100X | 2.25 - 3.66 |
| Q4H90L4E | S | 10.31 | 230/400V | FK09N000090N000X | FK09N000112N000X | FK09NOAA090N100X | 0.78 - 1.16 | FK09NOAA112N100X | 1.55 - 2.52 |
| Q4H90L4D | S | 7.45 | 230/400V | FK09N000090N000X | FK09N000112N000X | FK09NOAA090N100X | 1.07 - 1.61 | FK09NOAA112N100X | 2.15 - 3.49 |
| Q3HSI32S4B | S | 36.99 | 230/400V | FK11L000145N000X | FK11L000145N000X | FK11LOAA145N100X | 1.22 - 2.16 | FK11LOAA145N100X | 1.22 - 2.16 |
| Q4H80M4D | S | 3.74 | 230/400V | FK08N000090N000X | FK08N000090N000X | FK08NOAA090N100X | 2.14 - 3.21 | FK08NOAA090N100X | 2.14 - 3.21 |
| Q4HI00L6A | S | 11.12 | 230/400V | FK10N000112N000X | FK10N000112N000X | FK10NOAA112N100X | 1.44 - 2.34 | FK10NOAA112N100X | 1.44 - 2.34 |
| Q4H80M2DE | S | 3.57 | 230/400V | FK08L000090N000X | FK08L000090N000X | FK08LOAA090N100X | 2.24 - 3.36 | FK08LOAA090N100X | 2.24 - 3.36 |
| Q4HI00L4C | S | 10.16 | 230/400V | FK10N000132N000X | FK10N000132N000X | FK10NOAA132N100X | 2.56 - 4.72 | FK10NOAA132N100X | 2.56 - 4.72 |
| Q4HI00L4D | S | 14.8 | 230/400V | FK10N000132N000X | FK10N000132N000X | FK10NOAA132N100X | 1.76 - 3.24 | FK10NOAA132N100X | 1.76 - 3.24 |
| Q4HI2M4D | S | 20.32 | 230/400V | FK11L000132N000X | FK11L000145N000X | FK11LOAA132N100X | 1.28 - 2.36 | FK11LOAA145N100X | 2.21 - 3.94 |
| Q4HI2M2D | S | 12.91 | 400/690V | FK11N000112N000X | FK11N000132S000X | FK11NOAA112N180X | 1.24 - 2.01 | FK11NOAA132S180X | 2.01 - 3.72 |

BRAKE KIT DIMENSIONS (Based on EMF Brand Brake)

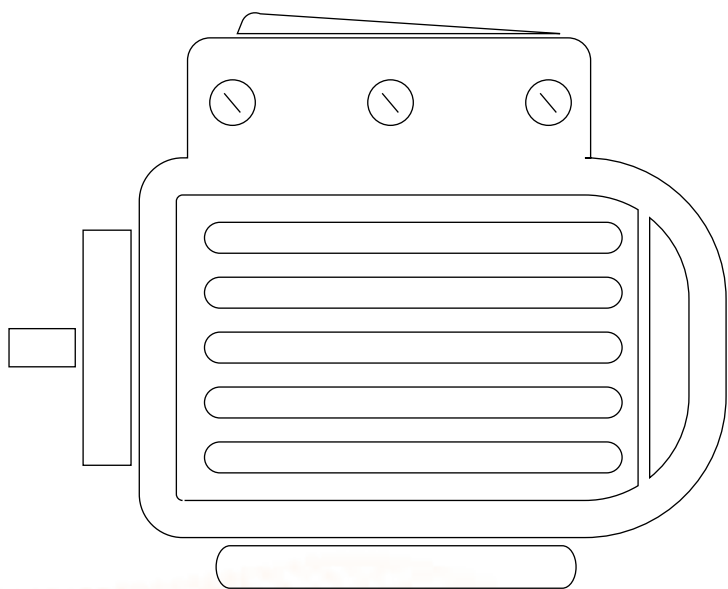


| Brake kit SKU | "Mn [max]" | "d1 H7" | "d2 f6" | "d3 H7" | d4 | d5 | d6 | d7 | d10 | d13 | d15 | d16 | L1 | "L2 h11" | L3 | L15 | Lt | Air gap | "Mass [only brake]" |
|------------------|------------|---------|---------|---------|-------|----|-----|------|-----|-----|-------|------|-------|----------|----|-----|-------|---------|---------------------|
| FK08LOAA090N100X | 12 | 20 | 20 | 140.5 | 149.6 | M5 | 90 | 3xM5 | 105 | 20 | 155.5 | 4xM4 | 99 | 54 | 45 | 20 | 159 | 0.25 | 2 kg |
| FK08LOAA112N100X | 26 | 20 | 20 | 140.5 | 149.6 | M5 | 112 | 3xM6 | 130 | 20 | 155.5 | 4xM4 | 104 | 54 | 50 | 20 | 159 | 0.25 | 3.6 kg |
| FK08NOAA090N100X | 12 | 20 | 20 | 140.5 | 149.6 | M5 | 90 | 3xM5 | 105 | 20 | 155.5 | 4xM4 | 73.7 | 28.7 | 45 | 20 | 130 | 0.25 | 2 kg |
| FK08NOAA112N100X | 26 | 20 | 20 | 140.5 | 149.6 | M5 | 112 | 3xM6 | 130 | 20 | 155.5 | 4xM4 | 78.7 | 28.7 | 50 | 20 | 130 | 0.25 | 3.6 kg |
| FK09LOAA112N100X | 26 | 20 | 20 | 149.5 | 158.6 | M5 | 112 | 3xM6 | 130 | 20 | 174 | 4xM5 | 110 | 60 | 50 | 20 | 176.5 | 0.25 | 3.6 kg |
| FK09LOAA112N180X | 26 | 20 | 20 | 149.5 | 158.6 | M5 | 112 | 3xM6 | 130 | 20 | 174 | 4xM5 | 110 | 60 | 50 | 20 | 176.5 | 0.25 | 3.6 kg |
| FK09LOAA132N100X | 48 | 25 | 25 | 149.5 | 158.6 | M5 | 132 | 3xM6 | 150 | 25 | 174 | 4xM5 | 118 | 60 | 58 | 25 | 176.5 | 0.3 | 5.6 kg |
| FK09LOAA132S100X | 48 | 20 | 20 | 149.5 | 158.6 | M5 | 132 | 3xM6 | 150 | 20 | 174 | 4xM5 | 118 | 60 | 58 | 20 | 176.5 | 0.3 | 5.6 kg |
| FK09LOAA132S180X | 48 | 20 | 20 | 149.5 | 158.6 | M5 | 132 | 3xM6 | 150 | 20 | 174 | 4xM5 | 118 | 60 | 58 | 20 | 176.5 | 0.3 | 5.6 kg |
| FK09NOAA090N100X | 12 | 20 | 20 | 149.5 | 158.6 | M5 | 90 | 3xM5 | 105 | 20 | 174 | 4xM5 | 67.5 | 22.5 | 45 | 20 | 133.5 | 0.25 | 2 kg |
| FK09NOAA112N100X | 26 | 20 | 20 | 149.5 | 158.6 | M5 | 112 | 3xM6 | 130 | 20 | 174 | 4xM5 | 72.5 | 22.5 | 50 | 20 | 133.5 | 0.25 | 3.6 kg |
| FK09NOAA132S100X | 48 | 20 | 20 | 149.5 | 158.6 | M5 | 132 | 3xM6 | 150 | 20 | 174 | 4xM5 | 80.5 | 22.5 | 58 | 20 | 133.5 | 0.3 | 5.6 kg |
| FK10LOAA132N100X | 48 | 25 | 25 | 166 | 178 | M5 | 132 | 3xM6 | 150 | 25 | 192 | 4xM4 | 98.5 | 40.5 | 58 | 25 | 144 | 0.3 | 5.6 kg |
| FK10LOAA132N180X | 48 | 25 | 25 | 166 | 178 | M5 | 132 | 3xM6 | 150 | 25 | 192 | 4xM4 | 98.5 | 40.5 | 58 | 25 | 144 | 0.3 | 5.6 kg |
| FK10LOAA145N100X | 80 | 25 | 25 | 166 | 178 | M5 | 145 | 3xM8 | 165 | 25 | 192 | 4xM4 | 112.5 | 40.5 | 72 | 25 | 144 | 0.3 | 7.9 kg |
| FK10LOAA145N180X | 80 | 25 | 25 | 166 | 178 | M5 | 145 | 3xM8 | 165 | 25 | 192 | 4xM4 | 112.5 | 40.5 | 72 | 25 | 144 | 0.3 | 7.9 kg |
| FK10NOAA112N100X | 26 | 20 | 20 | 166 | 178 | M5 | 112 | 3xM6 | 130 | 20 | 192 | 4xM4 | 76 | 26 | 50 | 20 | 139 | 0.25 | 3.6 kg |
| FK10NOAA112N180X | 26 | 20 | 20 | 166 | 178 | M5 | 112 | 3xM6 | 130 | 20 | 192 | 4xM4 | 76 | 26 | 50 | 20 | 139 | 0.25 | 3.6 kg |
| FK10NOAA132N100X | 48 | 25 | 25 | 166 | 178 | M5 | 132 | 3xM6 | 150 | 25 | 192 | 4xM4 | 84 | 26 | 58 | 25 | 139 | 0.3 | 5.6 kg |
| FK10NOAA132N180X | 48 | 25 | 25 | 166 | 178 | M5 | 132 | 3xM6 | 150 | 25 | 192 | 4xM4 | 84 | 26 | 58 | 25 | 139 | 0.3 | 5.6 kg |
| FK10NOAA132S100X | 48 | 20 | 20 | 166 | 178 | M5 | 132 | 3xM6 | 150 | 20 | 192 | 4xM4 | 84 | 26 | 58 | 20 | 139 | 0.3 | 5.6 kg |
| FK10NOAA132S180X | 48 | 20 | 20 | 166 | 178 | M5 | 132 | 3xM6 | 150 | 20 | 192 | 4xM4 | 84 | 26 | 58 | 20 | 139 | 0.3 | 5.6 kg |
| FK10NOAA145N100X | 80 | 25 | 25 | 166 | 178 | M5 | 145 | 3xM8 | 165 | 25 | 192 | 4xM4 | 98 | 26 | 72 | 25 | 139 | 0.3 | 7.9 kg |
| FK10NOAA145N180X | 80 | 25 | 25 | 166 | 178 | M5 | 145 | 3xM8 | 165 | 25 | 192 | 4xM4 | 98 | 26 | 72 | 25 | 139 | 0.3 | 7.9 kg |
| FK11LOAA132N100X | 48 | 25 | 25 | 182 | 193 | M6 | 132 | 3xM6 | 150 | 25 | 216 | 4xM6 | 109 | 51 | 58 | 25 | 194 | 0.3 | 5.6 kg |
| FK11LOAA132N180X | 48 | 25 | 25 | 182 | 193 | M6 | 132 | 3xM6 | 150 | 25 | 216 | 4xM6 | 109 | 51 | 58 | 25 | 194 | 0.3 | 5.6 kg |
| FK11LOAA145N100X | 80 | 25 | 25 | 182 | 193 | M6 | 145 | 3xM8 | 165 | 25 | 216 | 4xM6 | 123 | 51 | 72 | 25 | 194 | 0.3 | 7.9 kg |
| FK11LOAA145N180X | 80 | 25 | 25 | 182 | 193 | M6 | 145 | 3xM8 | 165 | 25 | 216 | 4xM6 | 123 | 51 | 72 | 25 | 194 | 0.3 | 7.9 kg |
| FK11NOAA112N180X | 26 | 20 | 20 | 182 | 193 | M6 | 112 | 3xM6 | 130 | 20 | 216 | 4xM6 | 81 | 27.5 | 50 | 20 | 165 | 0.25 | 3.6 kg |
| FK11NOAA132S180X | 48 | 20 | 20 | 182 | 193 | M6 | 112 | 3xM6 | 150 | 20 | 216 | 4xM6 | 85.5 | 27.5 | 58 | 20 | 165 | 0.3 | 5.6 kg |
| FK11NOAA132N100X | 48 | 25 | 25 | 182 | 193 | M6 | 132 | 3xM6 | 150 | 25 | 216 | 4xM6 | 85.5 | 27.5 | 58 | 25 | 165 | 0.3 | 5.6 kg |
| FK11NOAA132N180X | 48 | 25 | 25 | 182 | 193 | M6 | 132 | 3xM6 | 150 | 25 | 216 | 4xM6 | 85.5 | 27.5 | 58 | 25 | 165 | 0.3 | 5.6 kg |
| FK11NOAA145N100X | 80 | 25 | 25 | 182 | 193 | M6 | 145 | 3xM8 | 165 | 25 | 216 | 4xM6 | 99.5 | 27.5 | 72 | 25 | 165 | 0.3 | 7.9 kg |
| FK11NOAA145N180X | 80 | 25 | 25 | 182 | 193 | M6 | 145 | 3xM8 | 165 | 25 | 216 | 4xM6 | 99.5 | 27.5 | 72 | 25 | 165 | 0.3 | 7.9 kg |
| FK13LOAA145N180X | 80 | 25 | 25 | 225 | 241 | M8 | 145 | 3xM8 | 165 | 25 | 253 | 4xM5 | 156 | 84 | 72 | 25 | 234 | 0.3 | 7.9 kg |
| FK13LOAA170N180X | 120 | 35 | 35 | 225 | 241 | M8 | 170 | 3xM8 | 190 | 35 | 253 | 4xM5 | 162 | 84 | 78 | 30 | 234 | 0.3 | 11.8 kg |
| FK13LOAA170S180X | 120 | 25 | 25 | 225 | 241 | M8 | 170 | 3xM8 | 190 | 25 | 253 | 4xM5 | 162 | 84 | 78 | 25 | 234 | 0.3 | 11.8 kg |
| FK13LOAA196N180X | 240 | 35 | 35 | 225 | 241 | M8 | 196 | 6xM8 | 217 | 35 | 253 | 4xM5 | 169 | 84 | 85 | 30 | 234 | 0.4 | 18.4 kg |
| FK13NOAA132N100X | 48 | 25 | 25 | 225 | 241 | M8 | 132 | 3xM6 | 150 | 25 | 253 | 4xM5 | 85.5 | 27.5 | 58 | 25 | 143 | 0.3 | 5.6 kg |
| FK13NOAA132N180X | 48 | 25 | 25 | 225 | 241 | M8 | 132 | 3xM6 | 150 | 25 | 253 | 4xM5 | 85.5 | 27.5 | 58 | 25 | 143 | 0.3 | 5.6 kg |
| FK13NOAA145N100X | 80 | 25 | 25 | 225 | 241 | M8 | 145 | 3xM8 | 165 | 25 | 253 | 4xM5 | 99.5 | 27.5 | 72 | 25 | 143 | 0.3 | 7.9 kg |
| FK13NOAA145N180X | 80 | 25 | 25 | 225 | 241 | M8 | 145 | 3xM8 | 165 | 25 | 253 | 4xM5 | 99.5 | 27.5 | 72 | 25 | 143 | 0.3 | 7.9 kg |
| FK13NOAA170N180X | 120 | 35 | 35 | 225 | 241 | M8 | 170 | 3xM8 | 190 | 35 | 253 | 4xM5 | 105.5 | 27.5 | 78 | 30 | 143 | 0.3 | 11.8 kg |
| FK13NOAA170S180X | 120 | 25 | 25 | 225 | 241 | M8 | 170 | 3xM8 | 190 | 25 | 253 | 4xM5 | 105.5 | 27.5 | 78 | 25 | 143 | 0.3 | 11.8 kg |





INVERTER INTEGRATED MOTORS



TECHNICAL DOCUMENTATION

Our inverter integrated motors are between 0,55-22,0 kW, and they are available from 80 to 200 frames. One of the main advantage of this type is that the motor parameters for inverter are setted and by ourself and there is no effect of cable between inverter and motor that can reduce motors' insulation life.

| | | | | | | | | | | | | | |
|--|--|------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| Motor Power [kW] | 0.55 | 0.75 | 1.1 | 1.5 | 2.2 | 3 | 4 | 5.5 | 7.5 | 11 | 15 | 18.5 | 22 |
| Supply voltage [V] | 3~400 V [-15%]... 480 V [+10%], 50/60 Hz | | | | | | | | | | | | |
| Effective nominal current [A] [at 400 V/8 kHz] | 1.7 | 2.3 | 3.1 | 4 | 5.6 | 7.5 | 9.5 | 13 | 17.8 | 28.0 | 34.0 | 40.0 | 48.0 |
| Maximum effective current with time [%] | 150% for 60 Seconds | | | | | | | | | | | | |
| Switching frequency [kHz] | 4, 8, 16 [factory setting: 8 kHz] | | | | | | | | | | | | |
| Rotating field frequency [kHz] | 0.. 400 | | | | | | | | | | | | |
| Ambient temperature for power rating [°C] | -10 to +40 | | | | | | | | | | | | |
| Process control | PID controller, freely configurable | | | | | | | | | | | | |
| Protective functions | Undervoltage, overvoltage, I2t limitation, short circuits, motor temperature, inverter temperature, stall protection | | | | | | | | | | | | |

High Efficiency
(IE2/IE3 + Inverter)



Solutions for specific
applications

Perfect matching of
motor and inverter

High temperature and
vibration resistance

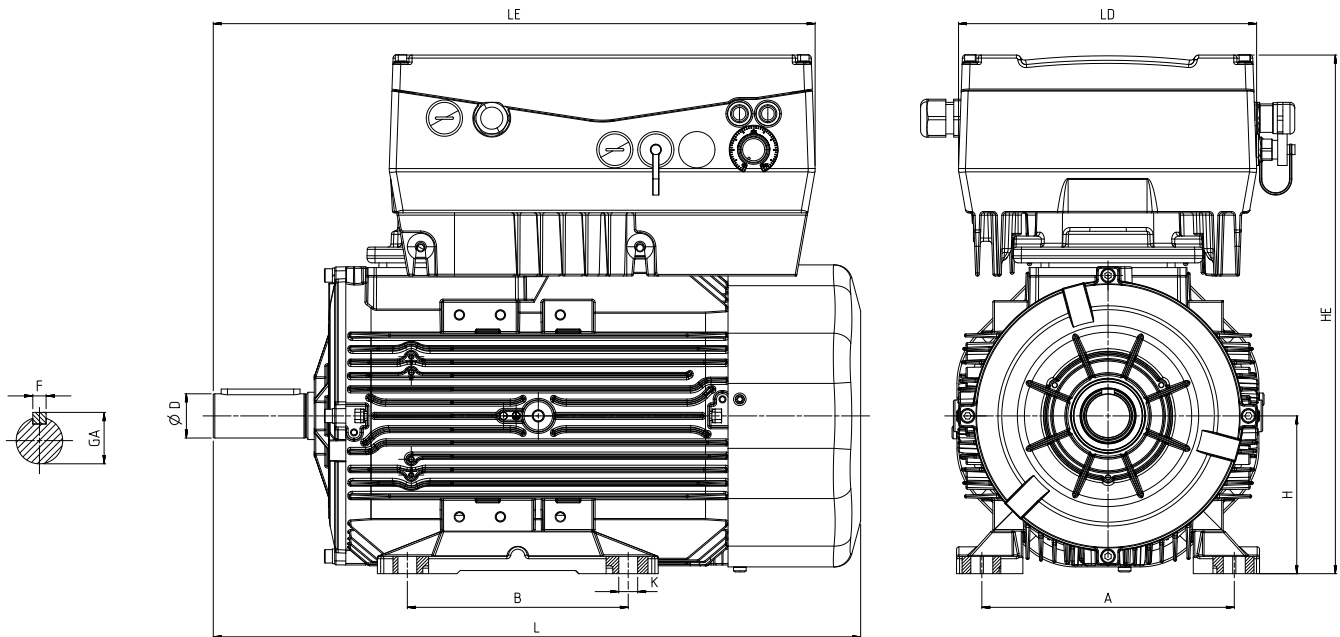
TECHNICAL SPECIFICATIONS

- Perfect combination with IE3 motors
- Energy saving function, catch-on-fly function, PID on board
- Standard independence from motor fan
- User friendly MMI (M12 interface on board)
- 24V/100mA (160 mA) switching power supply integrated
- Very high durability through innovative DC bus
- Performance optimized flux reduction
- No power losses in the capacitor
- No aging of the capacitors, thus long-term storage without maintenance possible
- Almost unlimited ripple current persistency
- Less distortion in the power grid (less losses in the EMC filter and rectifier)
- Small construction volume
- Reduced weight
- Very good vibration resistance
- Very low leakage currents (<3.5 mA), thus application on 30m A FI (RCD Type B) possible

PAINTING

Our inverter integrated motors are painted with a black protective paint according to RAL 9005 (black).

DIMENSION - B3



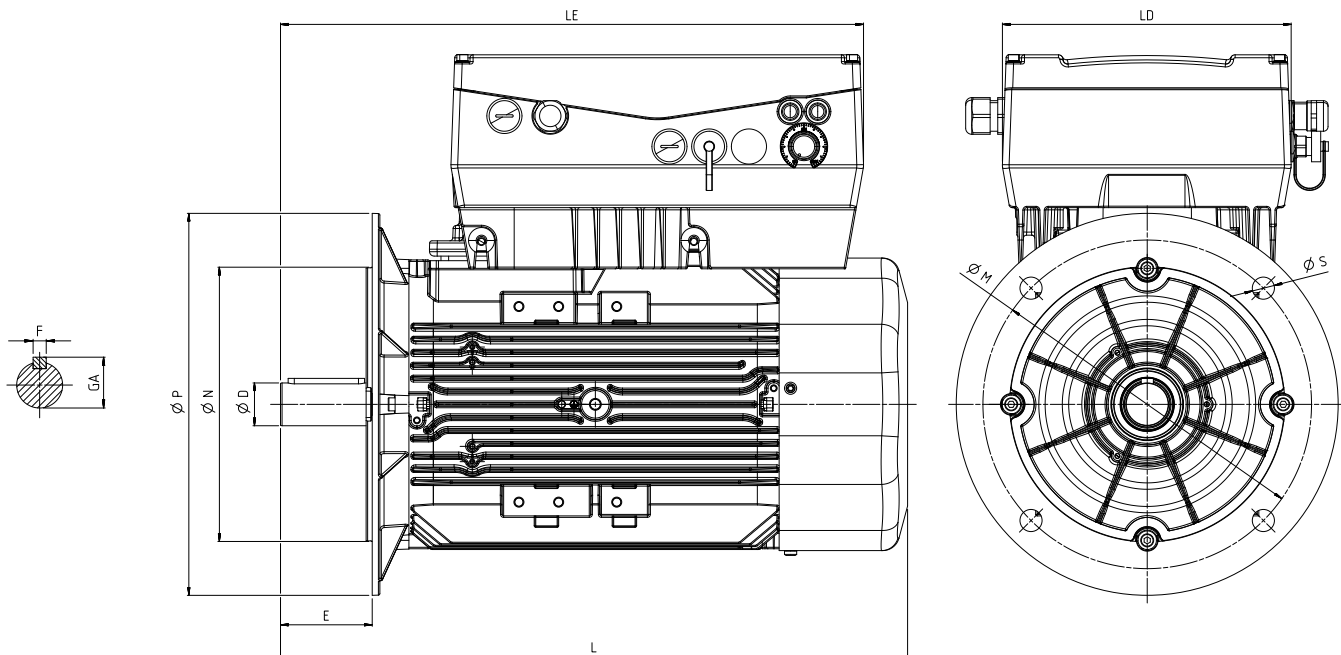
| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | Shaft | | | | Bearing | | Seal | |
|------------|-----------------|-------------|--------------|-----------------|-----|-----|---------------------|-----|-----|-----|----|------------------|----|-----|------------------|------------|----------------|------------|----------------|
| | | | | LD | L | LE | B | A | H | HE | K | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side |
| 0.75 | 2 | Q3HD80M2C | Aluminium | 189 | 268 | 365 | 100 | 125 | 80 | 290 | 10 | 19 | 40 | 215 | 6 | 6204-2Z | 6204-2Z | 20*30*7 | 20*30*7 |
| | 4 | Q3HD80M4D | Aluminium | 189 | 268 | 365 | 100 | 125 | 80 | 290 | 10 | 19 | 40 | 215 | 6 | 6204-2Z | 6204-2Z | 20*30*7 | 20*30*7 |
| 1.1 | 2 | Q3HD80M2D | Aluminium | 189 | 268 | 365 | 100 | 125 | 80 | 290 | 10 | 19 | 40 | 215 | 6 | 6204-2Z | 6204-2Z | 20*30*7 | 20*30*7 |
| | 4 | Q3HSD90S4C | Aluminium | 189 | 303 | 317 | 100 | 140 | 90 | 311 | 10 | 24 | 50 | 27 | 8 | 6305-2Z | 6204-2Z | 25*40*7 | 25*30*7 |
| 1.5 | 2 | Q3HSD90S2C | Aluminium | 189 | 303 | 317 | 100 | 140 | 90 | 311 | 10 | 24 | 50 | 27 | 8 | 6305-2Z | 6204-2Z | 25*40*7 | 25*30*7 |
| | 4 | Q3HD90L4D | Aluminium | 189 | 344 | 317 | 100 | 140 | 90 | 311 | 10 | 24 | 50 | 27 | 8 | 6305-2Z | 6205-2Z | 25*40*7 | 25*40*7 |
| 2.2 | 2 | Q3HD90L2D | Aluminium | 189 | 344 | 317 | 100 | 140 | 90 | 311 | 10 | 24 | 50 | 27 | 8 | 6305-2Z | 6205-2Z | 25*40*7 | 25*40*7 |
| | 4 | Q3HSD100L4C | Aluminium | 189 | 384 | 370 | 140 | 160 | 100 | 331 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6205-2Z | 30*47*7 | 25*40*7 |
| 3 | 2 | Q3HSD100L2C | Aluminium | 189 | 349 | 370 | 140 | 160 | 100 | 331 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6205-2Z | 30*47*7 | 25*40*7 |
| | 4 | Q3HD100L4D | Aluminium | 189 | 400 | 370 | 140 | 160 | 100 | 331 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6205-2Z | 30*47*7 | 25*40*7 |
| 4 | 2 | Q3HSD112M2C | Aluminium | 189 | 399 | 396 | 140 | 190 | 112 | 333 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6205-2Z | 30*47*7 | 25*40*7 |
| | 4 | Q3HD112M4D | Aluminium | 189 | 396 | 396 | 140 | 190 | 112 | 333 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6206-2Z | 30*47*7 | 30*47*7 |
| 5.5 | 2 | Q3HSD132S2C | Aluminium | 223 | 422 | 476 | 140-178 | 216 | 132 | 314 | 12 | 38 | 80 | 41 | 10 | 6208-2Z | 6208-2Z | 40*62*10 | 30*47*7 |
| | 4 | Q3HD132S4B | Aluminium | 223 | 481 | 476 | 140-178 | 216 | 132 | 314 | 12 | 38 | 80 | 41 | 10 | 6208-2Z | 6208-2Z | 40*62*10 | 40*62*10 |
| 7.5 | 2 | Q3HSD132S2D | Aluminium | 223 | 447 | 476 | 140-178 | 216 | 132 | 314 | 12 | 38 | 80 | 41 | 10 | 6208-2Z | 6206-2Z | 40*62*10 | 30*47*7 |
| | 4 | Q3HD132M4D | Aluminium | 223 | 481 | 476 | 140-178 | 216 | 132 | 314 | 12 | 38 | 80 | 41 | 10 | 6208-2Z | 6208-2Z | 40*62*10 | 40*62*10 |

(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) According to DIN 6885

Please contact with us for motors above 7,5kW.

DIMENSION - B5, B35



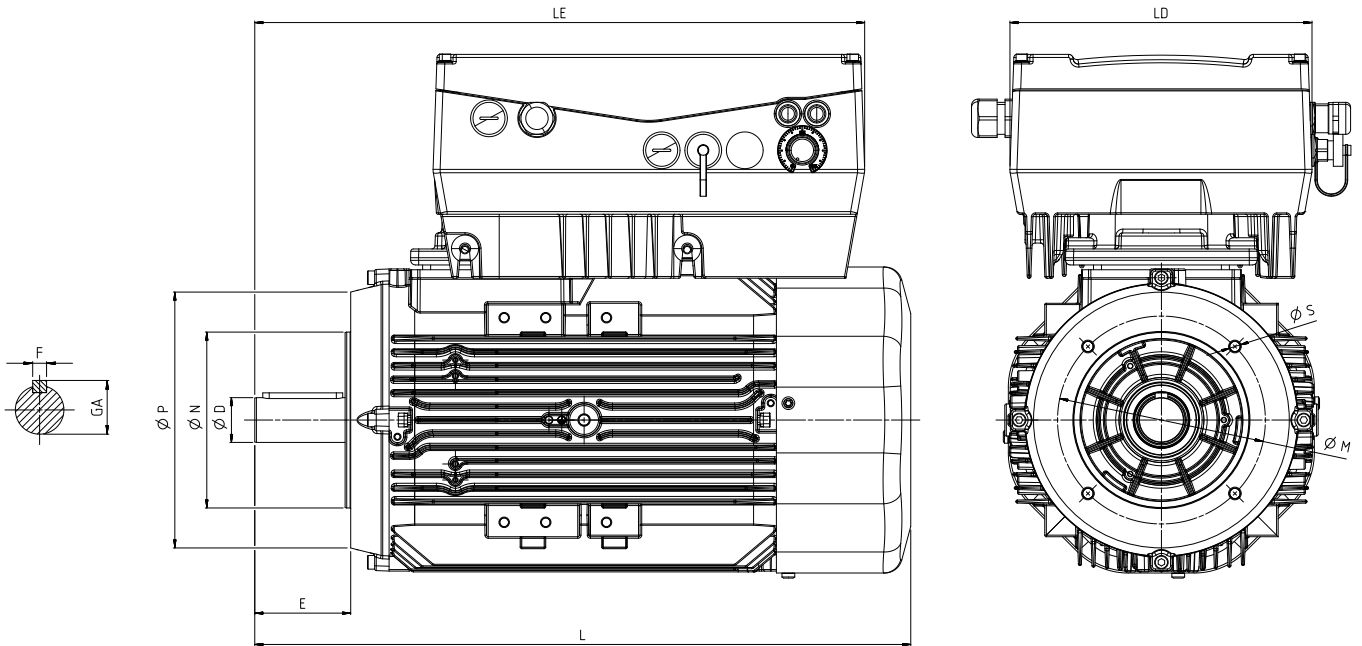
| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | Shaft | | | | Bearing | | Seal | | Flange [FA] [B5] | | | | | |
|------------|-----------------|-------------|--------------|-----------------|-----|-----|---------------------|-----|-----|-----|-------|------------------|----|------|------------------|------------|----------------|------------|------------------|-----|------------------|-----|---|------|
| | | | | LD | L | LE | B | A | H | HE | K | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ⁽³⁾ | M | R | S |
| 0.75 | 2 | Q3HD80M2C | Aluminium | 189 | 268 | 365 | 100 | 125 | 80 | 290 | 10 | 19 | 40 | 21.5 | 6 | 6204-2Z | 6204-2Z | 20*30*7 | 20*30*7 | 200 | 130 | 165 | 0 | 12 |
| | 4 | Q3HD80M4D | Aluminium | 189 | 268 | 365 | 100 | 125 | 80 | 290 | 10 | 19 | 40 | 21.5 | 6 | 6204-2Z | 6204-2Z | 20*30*7 | 20*30*7 | 200 | 130 | 165 | 0 | 12 |
| 1.1 | 2 | Q3HD80M2D | Aluminium | 189 | 268 | 365 | 100 | 125 | 80 | 290 | 10 | 19 | 40 | 21.5 | 6 | 6204-2Z | 6204-2Z | 20*30*7 | 20*30*7 | 200 | 130 | 165 | 0 | 12 |
| | 4 | Q3HSD90S4C | Aluminium | 189 | 303 | 317 | 100 | 140 | 90 | 311 | 10 | 24 | 50 | 27 | 8 | 6305-2Z | 6204-2Z | 25*40*7 | 25*30*7 | 200 | 130 | 165 | 0 | 12 |
| 1.5 | 2 | Q3HSD90S2C | Aluminium | 189 | 303 | 317 | 100 | 140 | 90 | 311 | 10 | 24 | 50 | 27 | 8 | 6305-2Z | 6204-2Z | 25*40*7 | 25*30*7 | 200 | 130 | 165 | 0 | 12 |
| | 4 | Q3HD90L4D | Aluminium | 189 | 344 | 317 | 100 | 140 | 90 | 311 | 10 | 24 | 50 | 27 | 8 | 6305-2Z | 6205-2Z | 25*40*7 | 25*40*7 | 200 | 130 | 165 | 0 | 12 |
| 2.2 | 2 | Q3HD90L2D | Aluminium | 189 | 344 | 317 | 100 | 140 | 90 | 311 | 10 | 24 | 50 | 27 | 8 | 6305-2Z | 6205-2Z | 25*40*7 | 25*40*7 | 200 | 130 | 165 | 0 | 12 |
| | 4 | Q3HSD100L4C | Aluminium | 189 | 384 | 370 | 140 | 160 | 100 | 331 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6205-2Z | 30*47*7 | 25*40*7 | 250 | 180 | 215 | 0 | 14.5 |
| 3 | 2 | Q3HSD100L2C | Aluminium | 189 | 349 | 370 | 140 | 160 | 100 | 331 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6205-2Z | 30*47*7 | 25*40*7 | 250 | 180 | 215 | 0 | 14.5 |
| | 4 | Q3HDI00L4D | Aluminium | 189 | 400 | 370 | 140 | 160 | 100 | 331 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6205-2Z | 30*47*7 | 25*40*7 | 250 | 180 | 215 | 0 | 14.5 |
| 4 | 2 | Q3HSD112M2C | Aluminium | 189 | 399 | 396 | 140 | 190 | 112 | 333 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6205-2Z | 30*47*7 | 25*40*7 | 250 | 180 | 215 | 0 | 14.5 |
| | 4 | Q3HD112M4D | Aluminium | 189 | 396 | 396 | 140 | 190 | 112 | 333 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6206-2Z | 30*47*7 | 30*47*7 | 250 | 180 | 215 | 0 | 14.5 |
| 5.5 | 2 | Q3HSD132S2C | Aluminium | 223 | 422 | 476 | 140-178 | 216 | 132 | 314 | 12 | 38 | 80 | 41 | 10 | 6208-2Z | 6208-2Z | 40*62*10 | 30*47*7 | 300 | 230 | 265 | 0 | 14.5 |
| | 4 | Q3HDI32S4B | Aluminium | 223 | 481 | 476 | 140-178 | 216 | 132 | 314 | 12 | 38 | 80 | 41 | 10 | 6208-2Z | 6208-2Z | 40*62*10 | 40*62*10 | 300 | 230 | 265 | 0 | 14.5 |
| 7.5 | 2 | Q3HSD132S2D | Aluminium | 223 | 447 | 476 | 140-178 | 216 | 132 | 314 | 12 | 38 | 80 | 41 | 10 | 6208-2Z | 6206-2Z | 40*62*10 | 30*47*7 | 300 | 230 | 265 | 0 | 14.5 |
| | 4 | Q3HDI32M4D | Aluminium | 223 | 481 | 476 | 140-178 | 216 | 132 | 314 | 12 | 38 | 80 | 41 | 10 | 6208-2Z | 6208-2Z | 40*62*10 | 40*62*10 | 300 | 230 | 265 | 0 | 14.5 |

(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm
 (2) According to DIN 6885
 (3) Tolerance DIN EN 50347 "j6"
 Please contact with us for motors above 7,5kW.

Q3D INVERTER INTEGRATED MOTORS



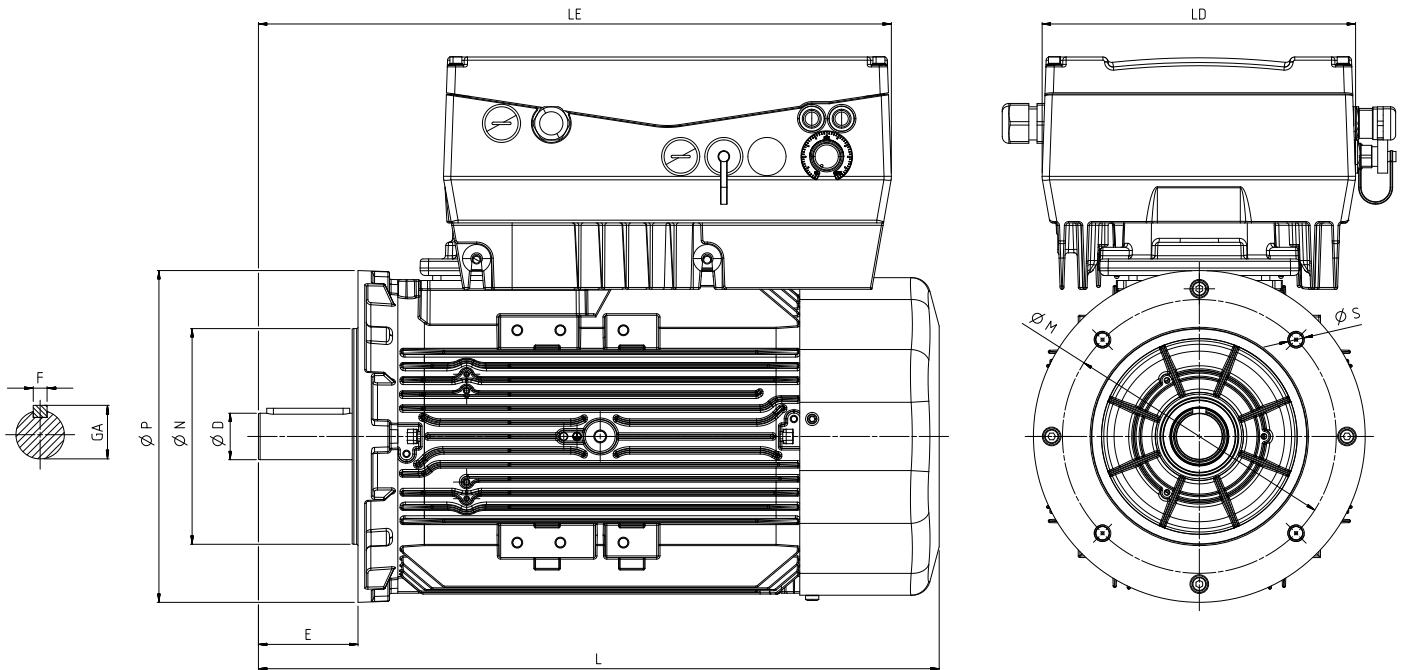
DIMENSION - B14a, B34a



| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | Shaft | | | | Bearing | | Seal | | Flange [FC] [B14a] | | | | |
|------------|-----------------|-------------|--------------|-----------------|-----|-----|---------------------|-----|-----|-----|----|------------------|----|------|------------------|------------|----------------|------------|----------------|--------------------|------------------|-----|---|-----|
| | | | | LD | L | LE | B | A | H | HE | K | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ⁽³⁾ | M | R | S |
| 0.75 | 2 | Q3HD80M2C | Aluminium | 189 | 268 | 365 | 100 | 125 | 80 | 290 | 10 | 19 | 40 | 21.5 | 6 | 6204-2Z | 6204-2Z | 20*30*7 | 20*30*7 | 120 | 80 | 100 | 0 | M6 |
| | 4 | Q3HD80M4D | Aluminium | 189 | 268 | 365 | 100 | 125 | 80 | 290 | 10 | 19 | 40 | 21.5 | 6 | 6204-2Z | 6204-2Z | 20*30*7 | 20*30*7 | 120 | 80 | 100 | 0 | M6 |
| 1.1 | 2 | Q3HD80M2D | Aluminium | 189 | 268 | 365 | 100 | 125 | 80 | 290 | 10 | 19 | 40 | 21.5 | 6 | 6204-2Z | 6204-2Z | 20*30*7 | 20*30*7 | 120 | 80 | 100 | 0 | M6 |
| | 4 | Q3HSD90S4C | Aluminium | 189 | 303 | 317 | 100 | 140 | 90 | 311 | 10 | 24 | 50 | 27 | 8 | 6305-2Z | 6204-2Z | 25*40*7 | 25*30*7 | 140 | 95 | 115 | 0 | M8 |
| 1.5 | 2 | Q3HSD90S2C | Aluminium | 189 | 303 | 317 | 100 | 140 | 90 | 311 | 10 | 24 | 50 | 27 | 8 | 6305-2Z | 6204-2Z | 25*40*7 | 25*30*7 | 140 | 95 | 115 | 0 | M8 |
| | 4 | Q3HD90L4D | Aluminium | 189 | 344 | 317 | 100 | 140 | 90 | 311 | 10 | 24 | 50 | 27 | 8 | 6305-2Z | 6205-2Z | 25*40*7 | 25*40*7 | 140 | 95 | 115 | 0 | M8 |
| 2.2 | 2 | Q3HD90L2D | Aluminium | 189 | 344 | 317 | 100 | 140 | 90 | 311 | 10 | 24 | 50 | 27 | 8 | 6305-2Z | 6205-2Z | 25*40*7 | 25*40*7 | 140 | 95 | 115 | 0 | M8 |
| | 4 | Q3HSD100L4C | Aluminium | 189 | 384 | 370 | 140 | 160 | 100 | 331 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6205-2Z | 30*47*7 | 25*40*7 | 160 | 110 | 130 | 0 | M8 |
| 3 | 2 | Q3HSD100L2C | Aluminium | 189 | 349 | 370 | 140 | 160 | 100 | 331 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6205-2Z | 30*47*7 | 25*40*7 | 160 | 110 | 130 | 0 | M8 |
| | 4 | Q3HDI00L4D | Aluminium | 189 | 400 | 370 | 140 | 160 | 100 | 331 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6205-2Z | 30*47*7 | 25*40*7 | 160 | 110 | 130 | 0 | M8 |
| 4 | 2 | Q3HSD112M2C | Aluminium | 189 | 399 | 396 | 140 | 190 | 112 | 333 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6205-2Z | 30*47*7 | 25*40*7 | 160 | 110 | 130 | 0 | M8 |
| | 4 | Q3HDI12M4D | Aluminium | 189 | 396 | 396 | 140 | 190 | 112 | 333 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6206-2Z | 30*47*7 | 30*47*7 | 160 | 110 | 130 | 0 | M8 |
| 5.5 | 2 | Q3HSD132S2C | Aluminium | 223 | 422 | 476 | 140-178 | 216 | 132 | 314 | 12 | 38 | 80 | 41 | 10 | 6208-2Z | 6206-2Z | 40*62*10 | 30*47*7 | 200 | 130 | 165 | 0 | M10 |
| | 4 | Q3HDI32S4B | Aluminium | 223 | 481 | 476 | 140-178 | 216 | 132 | 314 | 12 | 38 | 80 | 41 | 10 | 6208-2Z | 6206-2Z | 40*62*10 | 40*62*10 | 200 | 130 | 165 | 0 | M10 |
| 7.5 | 2 | Q3HSD132S2D | Aluminium | 223 | 447 | 476 | 140-178 | 216 | 132 | 314 | 12 | 38 | 80 | 41 | 10 | 6208-2Z | 6206-2Z | 40*62*10 | 30*47*7 | 200 | 130 | 165 | 0 | M10 |
| | 4 | Q3HDI32M4D | Aluminium | 223 | 481 | 476 | 140-178 | 216 | 132 | 314 | 12 | 38 | 80 | 41 | 10 | 6208-2Z | 6206-2Z | 40*62*10 | 40*62*10 | 200 | 130 | 165 | 0 | M10 |

(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm
 (2) According to DIN 6885
 (3) Tolerance DIN EN 50347 "j6"
 Please contact with us for motors above 7,5kW.

DIMENSION - B14b, B34b



| Power [kW] | Number of Poles | Motor Type | Housing Type | Main Dimensions | | | Foot Mounted Motors | | | | | Shaft | | | Bearing | | Seal | | Flange [FB] (B14b) | | | | | |
|------------|-----------------|-------------|--------------|-----------------|-----|-----|---------------------|-----|-----|-----|----|------------------|----|------|------------------|------------|----------------|------------|--------------------|-----|------------------|-----|---|-----------|
| | | | | LD | L | LE | B | A | H | HE | K | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non drive Side | Drive Side | Non drive Side | P | N ⁽³⁾ | M | R | S |
| 0.75 | 2 | Q3HD80M2C | Aluminium | 189 | 268 | 365 | 100 | 125 | 80 | 290 | 10 | 19 | 40 | 21.5 | 6 | 6204-2Z | 6204-2Z | 20*30*7 | 20*30*7 | 160 | 110 | 130 | 0 | M8 |
| | 4 | Q3HD80M4D | Aluminium | 189 | 268 | 365 | 100 | 125 | 80 | 290 | 10 | 19 | 40 | 21.5 | 6 | 6204-2Z | 6204-2Z | 20*30*7 | 20*30*7 | 160 | 110 | 130 | 0 | M8 |
| 1.1 | 2 | Q3HD80M2D | Aluminium | 189 | 268 | 365 | 100 | 125 | 80 | 290 | 10 | 19 | 40 | 21.5 | 6 | 6204-2Z | 6204-2Z | 20*30*7 | 20*30*7 | 160 | 110 | 130 | 0 | M8 |
| | 4 | Q3HSD90S4C | Aluminium | 189 | 303 | 317 | 100 | 140 | 90 | 311 | 10 | 24 | 50 | 27 | 8 | 6305-2Z | 6204-2Z | 25*40*7 | 25*30*7 | 160 | 110 | 130 | 0 | M8 |
| 1.5 | 2 | Q3HSD90S2C | Aluminium | 189 | 303 | 317 | 100 | 140 | 90 | 311 | 10 | 24 | 50 | 27 | 8 | 6305-2Z | 6204-2Z | 25*40*7 | 25*30*7 | 160 | 110 | 130 | 0 | M8 |
| | 4 | Q3HD90L4D | Aluminium | 189 | 344 | 317 | 100 | 140 | 90 | 311 | 10 | 24 | 50 | 27 | 8 | 6305-2Z | 6205-2Z | 25*40*7 | 25*40*7 | 160 | 110 | 130 | 0 | M8 |
| 2.2 | 2 | Q3HD90L2D | Aluminium | 189 | 344 | 317 | 100 | 140 | 90 | 311 | 10 | 24 | 50 | 27 | 8 | 6305-2Z | 6205-2Z | 25*40*7 | 25*40*7 | 160 | 110 | 130 | 0 | M8 |
| | 4 | Q3HSD100L4C | Aluminium | 189 | 384 | 370 | 140 | 160 | 100 | 331 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6205-2Z | 30*47*7 | 25*40*7 | 200 | 130 | 165 | 0 | M10 |
| 3 | 2 | Q3HSD100L2C | Aluminium | 189 | 349 | 370 | 140 | 160 | 100 | 331 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6205-2Z | 30*47*7 | 25*40*7 | 200 | 130 | 165 | 0 | M10 |
| | 4 | Q3HD100L4D | Aluminium | 189 | 400 | 370 | 140 | 160 | 100 | 331 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6205-2Z | 30*47*7 | 25*40*7 | 200 | 130 | 165 | 0 | M10 |
| 4 | 2 | Q3HSD112M2C | Aluminium | 189 | 399 | 396 | 140 | 190 | 112 | 333 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6205-2Z | 30*47*7 | 25*40*7 | 200 | 130 | 165 | 0 | M10 |
| | 4 | Q3HD112M4D | Aluminium | 189 | 396 | 396 | 140 | 190 | 112 | 333 | 12 | 28 | 60 | 31 | 8 | 6306-2Z | 6206-2Z | 30*47*7 | 30*47*7 | 200 | 130 | 165 | 0 | M10 |
| 5.5 | 2 | Q3HSD132S2C | Aluminium | 223 | 422 | 476 | 140-178 | 216 | 132 | 314 | 12 | 38 | 80 | 41 | 10 | 6208-2Z | 6206-2Z | 40*62*10 | 30*47*7 | 250 | 180 | 215 | 0 | M12 or 15 |
| | 4 | Q3HD132S4B | Aluminium | 223 | 481 | 476 | 140-178 | 216 | 132 | 314 | 12 | 38 | 80 | 41 | 10 | 6208-2Z | 6206-2Z | 40*62*10 | 40*62*10 | 250 | 180 | 215 | 0 | M12 or 15 |
| 7.5 | 2 | Q3HSD132S2D | Aluminium | 223 | 447 | 476 | 140-178 | 216 | 132 | 314 | 12 | 38 | 80 | 41 | 10 | 6208-2Z | 6206-2Z | 40*62*10 | 30*47*7 | 250 | 180 | 215 | 0 | M12 or 15 |
| | 4 | Q3HD132M4D | Aluminium | 223 | 481 | 476 | 140-178 | 216 | 132 | 314 | 12 | 38 | 80 | 41 | 10 | 6208-2Z | 6206-2Z | 40*62*10 | 40*62*10 | 250 | 180 | 215 | 0 | M12 or 15 |

(1) Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

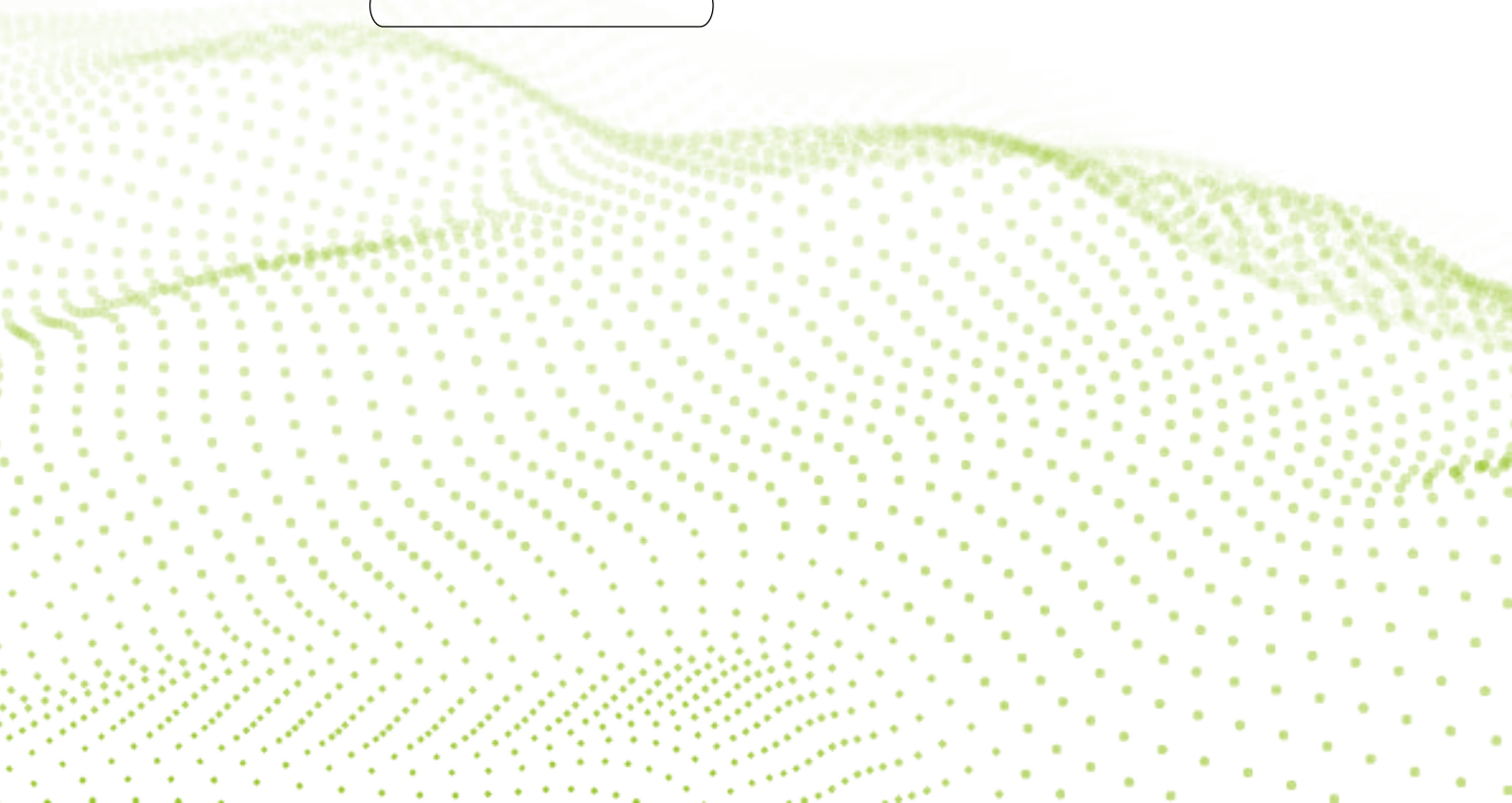
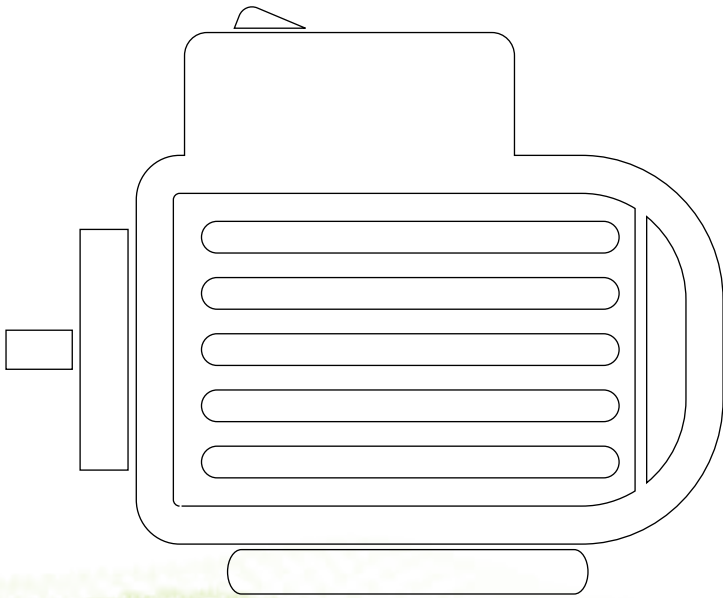
(2) According to DIN 6885

(3) Tolerance DIN EN 50347 "j6"





SINGLE PHASE MOTORS



TECHNICAL DOCUMENTATION

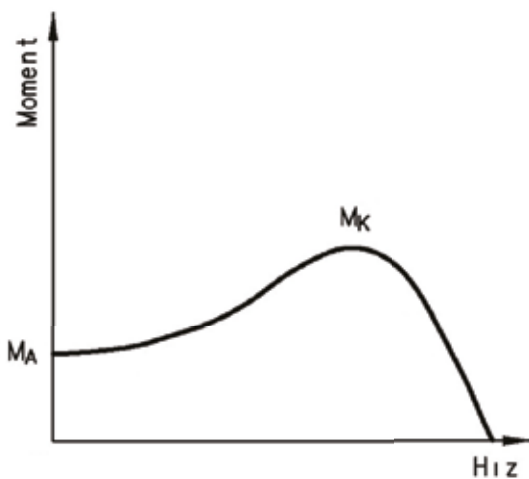
Motors are manufactured in IEC 63-100 frame size as single phase, fully closed, short-circuit rotor and fan cooling.

Motors have been designed according to 230V, 50Hz as standard. Motors with other voltage and 60Hz frequency rating can be manufactured on demand.

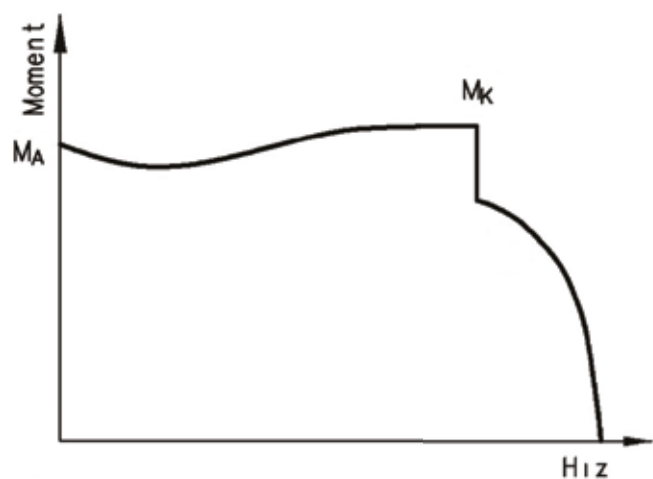
QM type single phase motors are with run capacitors and QC type single phase motors are with start and run capacitors.

QM type motors with run capacitor:
400V run capacitor is used in the motors.

QC type motors with start and run capacitor:
Motors have electronic relay as well as 400V run capacitor and start capacitor. These type of motors with high startup moment have the capability of 300 start/stop per hour. Frequent direction of rotation change, will affect this capability. If you have such an application, please contact with us to get more detailed information. Thanks to current smoothing and rotor blocking protection properties of electronic relay, our single phase motors are guaranteed an extended service life.



Torque-Speed curve of QM type motors with run capacitor



Torque-Speed curve of QC type motors with start and run capacitor

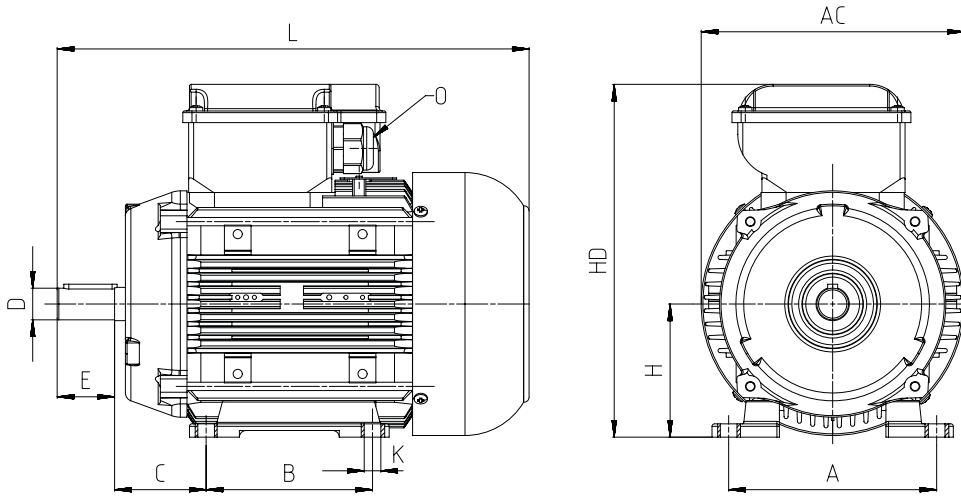
Thanks to the electronic relay, the starting torque (M_A) of QC type motors is 2.5-3 times the nominal torque.



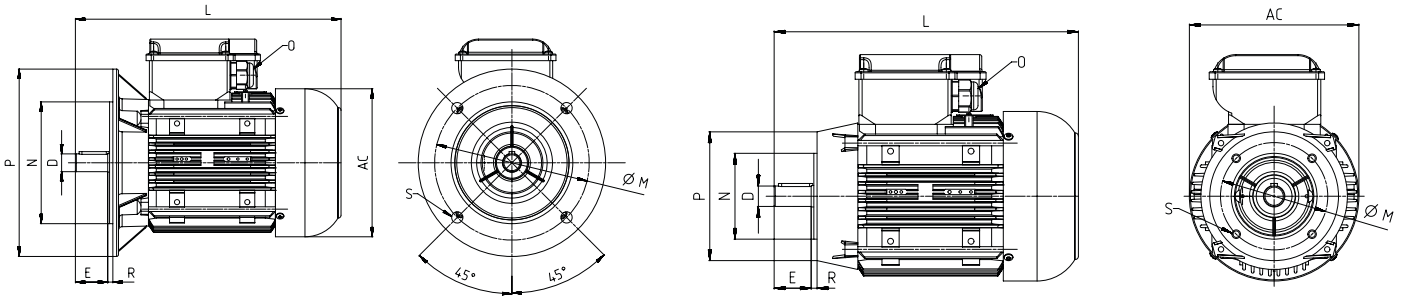
ELECTRICAL CHARACTERISTICS AT 50 Hz

| MOTOR TYPE | HOUSING TYPE | RATED VALUES | | | | | STARTING VALUES | | Breakdown Torque Ratio | η % | Cos ϕ | μ F [400 V] | J kgm ² | Weight [B3] kg | |
|------------------------|--------------|--------------|------|-------|---------|--------|-----------------|--------|------------------------|----------|------------|-----------------|--------------------|----------------|------|
| | | Power | | Speed | Current | Torque | Current | Torque | | | | | | | |
| | | HP | kW | rpm | A | Nm | IA/ N | MA/ MN | | | | | | | |
| 2 pole 3000 rpm | | | | | | | | | | | | | | | |
| 230V 50Hz | QM63M2B | Aluminium | 1/3 | 0.25 | 2780 | 1.95 | 0.85 | 3.6 | 0.60 | 1.90 | 60 | 0.94 | 10 | 0.00021 | 6 |
| | QM63M2C | Aluminium | 1/2 | 0.37 | 2780 | 2.80 | 1.28 | 3.6 | 0.60 | 1.80 | 61 | 0.94 | 15 | 0.00026 | 6 |
| | QM63M2D | Aluminium | 3/4 | 0.55 | 2820 | 4.00 | 1.88 | 4.0 | 0.55 | 1.80 | 63 | 0.93 | 15 | 0.00030 | 7 |
| | QM71M2A | Aluminium | 1/3 | 0.25 | 2780 | 2.00 | 0.85 | 3.8 | 0.80 | 2.20 | 63 | 0.93 | 12.5 | 0.00028 | 6 |
| | QM71M2B | Aluminium | 1/2 | 0.37 | 2780 | 2.85 | 1.25 | 3.8 | 0.70 | 2.20 | 66 | 0.92 | 18 | 0.00035 | 7 |
| | QM71M2C | Aluminium | 3/4 | 0.55 | 2800 | 4.00 | 1.89 | 3.8 | 0.60 | 2.10 | 67 | 0.88 | 20 | 0.00040 | 8 |
| | QM71M2D | Aluminium | 1.0 | 0.75 | 2800 | 4.80 | 2.56 | 4.2 | 0.55 | 2.00 | 69 | 0.94 | 25 | 0.00051 | 9 |
| | QM80M2A | Aluminium | 3/4 | 0.55 | 2820 | 3.90 | 1.88 | 4.0 | 0.70 | 2.10 | 64 | 0.95 | 20 | 0.00092 | 10 |
| | QM80M2B | Aluminium | 1.0 | 0.75 | 2820 | 5.00 | 2.56 | 4.0 | 0.70 | 2.10 | 68 | 0.94 | 25 | 0.00107 | 11 |
| | QM80M2C | Aluminium | 1.5 | 1.10 | 2800 | 7.80 | 3.75 | 3.8 | 0.60 | 2.00 | 68 | 0.86 | 30 | 0.00126 | 12 |
| | QM90S2A | Aluminium | 1.5 | 1.10 | 2820 | 7.70 | 3.75 | 4.5 | 0.70 | 2.10 | 72 | 0.88 | 30 | 0.00118 | 14 |
| | QM90L2A | Aluminium | 2.0 | 1.50 | 2840 | 9.90 | 5.12 | 4.5 | 0.65 | 2.10 | 74 | 0.94 | 40 | 0.00152 | 16 |
| QM90L2C | Aluminium | 3.0 | 2.20 | 2790 | 14.50 | 7.53 | 4.5 | 0.55 | 2.10 | 74 | 0.90 | 50 | 0.00172 | 18 | |
| QM100L2B | Aluminium | 4.0 | 3.00 | 2750 | 18.70 | 10.10 | 2.7 | 0.40 | 1.80 | 75 | 0.97 | 80 | 0.00213 | 22 | |
| 4 pole 1500 rpm | | | | | | | | | | | | | | | |
| 230V 50Hz | QM63M4B | Aluminium | 1/6 | 0.12 | 1400 | 1.10 | 1.12 | 3.5 | 0.70 | 2.00 | 51 | 0.91 | 12.5 | 0.00025 | 6 |
| | QM71M4A | Aluminium | 1/4 | 0.18 | 1400 | 1.50 | 1.24 | 3.5 | 0.70 | 2.00 | 57 | 0.92 | 12.5 | 0.00071 | 6.5 |
| | QM71M4B | Aluminium | 1/3 | 0.25 | 1400 | 2.00 | 1.72 | 3.5 | 0.70 | 2.00 | 60 | 0.90 | 15 | 0.00095 | 7.5 |
| | QM71M4C | Aluminium | 1/2 | 0.37 | 1400 | 2.70 | 2.54 | 3.5 | 0.65 | 1.90 | 64 | 0.91 | 20 | 0.00107 | 8.0 |
| | QM80M4A | Aluminium | 1/2 | 0.37 | 1400 | 2.60 | 2.52 | 3.5 | 0.70 | 1.80 | 66 | 0.84 | 20 | 0.00167 | 9.5 |
| | QM80M4B | Aluminium | 3/4 | 0.55 | 1390 | 3.80 | 3.78 | 2.2 | 0.70 | 1.80 | 68 | 0.95 | 25 | 0.00204 | 10.5 |
| | QM80M4C | Aluminium | 1.0 | 0.75 | 1380 | 5.00 | 5.23 | 3.5 | 0.65 | 1.75 | 69 | 0.95 | 30 | 0.00229 | 11.5 |
| | QM90S4A | Aluminium | 1.0 | 0.75 | 1400 | 5.50 | 5.15 | 4.5 | 0.60 | 1.80 | 68 | 0.88 | 30 | 0.00237 | 14 |
| | QM90L4A | Aluminium | 1.5 | 1.10 | 1400 | 7.40 | 7.50 | 4.5 | 0.65 | 1.90 | 69 | 0.90 | 40 | 0.00309 | 16 |
| | QM90L4C | Aluminium | 2.0 | 1.50 | 1400 | 10.20 | 10.31 | 5.0 | 0.55 | 1.60 | 69 | 0.90 | 50 | 0.00351 | 18 |
| | QM100L4B | Aluminium | 3.0 | 2.20 | 1410 | 13.50 | 15.34 | 3.0 | 0.55 | 1.80 | 76 | 0.94 | 75 | 0.00471 | 24 |

DIMENSION



B3-B6-B7-B8-V5-V6



B14-V18-V19

B5-V1-V3

| Frame Size | Housing Type | No. Of poles | Main Dimensions | | | Foot Mounted Motors | | | | | Shaft | | | | Bearing | | Seal | | Flange | | | | | | | |
|------------|--------------|--------------|-----------------|------------|-------|---------------------|-----|-----|-----|----|-------|------------------|----|------|------------------|------------|----------------|------------|----------------|---------------|-------------|-----|------------------|-----|---|------|
| | | | AC | L | O | B | A | H | HD | K | C | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non Drive Side | Drive Side | Non Drive Side | Mounting Type | Flange Type | P | N ⁽³⁾ | M | R | S |
| 63 M | Aluminium | 2...4 | 123 | 220 | 1*M20 | 80 | 100 | 63 | 182 | 7 | 40 | 11 | 23 | 12.5 | 4 | 6201-2Z | 6201-2Z | 12*22*7 | 12*22*7 | B5 | FA | 140 | 95 | 115 | 0 | 10 |
| | | | | | | | | | | | | | | | | | | | | B14 | FB | 120 | 80 | 100 | 0 | M6 |
| | | | | | | | | | | | | | | | | | | | | B14 | FC | 90 | 60 | 75 | 0 | M5 |
| 71 M | Aluminium | 2...4 | 138 | 253 | 1*M20 | 90 | 112 | 71 | 198 | 7 | 45 | 14 | 30 | 16.0 | 5 | 6202-2Z | 6202-2Z | 15*24*5 | 15*24*5 | B5 | FA | 160 | 110 | 130 | 0 | 10 |
| | | | | | | | | | | | | | | | | | | | | B14 | FB | 140 | 95 | 115 | 0 | M8 |
| | | | | | | | | | | | | | | | | | | | | B14 | FC | 105 | 70 | 85 | 0 | M6 |
| 80 M | Aluminium | 2...4 | 158 | 284 | 1*M20 | 100 | 125 | 80 | 215 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-2Z | 6204-2Z | 20*30*7 | 20*30*7 | B5 | FA | 200 | 130 | 165 | 0 | 12 |
| | | | | | | | | | | | | | | | | | | | | B14 | FB | 160 | 110 | 130 | 0 | M8 |
| | | | | | | | | | | | | | | | | | | | | B14 | FC | 120 | 80 | 100 | 0 | M6 |
| 90 S L | Aluminium | 2...4 | 193 | 297 317 | 1*M20 | 100 125 | 140 | 90 | 241 | 10 | 56 | 24 | 50 | 27.0 | 8 | 6305-2Z | 6205-2Z | 25*40*7 | 25*40*7 | B5 | FA | 200 | 130 | 165 | 0 | 12 |
| | | | | | | | | | | | | | | | | | | | | B14 | FB | 160 | 110 | 130 | 0 | M8 |
| | | | | | | | | | | | | | | | | | | | | B14 | FC | 140 | 95 | 115 | 0 | M8 |
| 100 L | Aluminium | 2...4 | 217 | 352 | 1*M25 | 140 | 160 | 100 | 241 | 12 | 63 | 28 | 60 | 31.0 | 8 | 6306-2Z | 6205-2Z | 30*47*7 | 25*40*7 | B5 | FA | 250 | 180 | 215 | 0 | 14.5 |
| | | | | | | | | | | | | | | | | | | | | B14 | FB | 200 | 130 | 165 | 0 | M10 |
| | | | | | | | | | | | | | | | | | | | | B14 | FC | 160 | 110 | 130 | 0 | M8 |

Dimensions are in mm

(1) Tolerance DIN EN 50347 "j6"

(2) According to DIN 6885

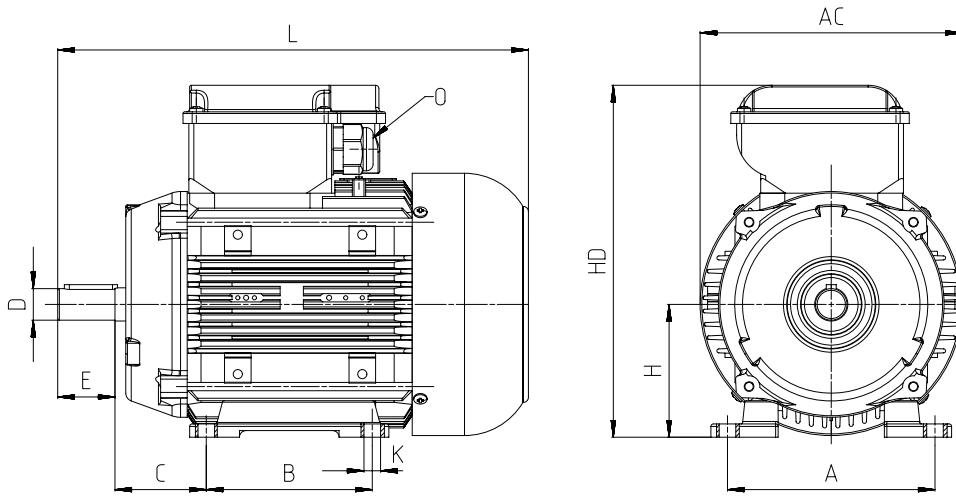
(3) Tolerance DIN EN 50347 "j6"



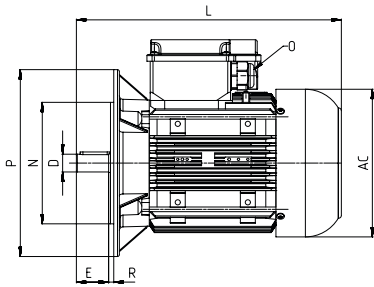
ELECTRICAL CHARACTERISTICS AT 50 Hz

| MOTOR TYPE | HOUSING TYPE | RATED VALUES | | | | | STARTING VALUES | | Breakdown Torque Ratio | η % | Cos ϕ | Capacitor | | J kgm ² | Weight [B3] kg | |
|------------------------|--------------|--------------|-----|-------|---------|--------|---------------------------------|---------------------------------|------------------------|----------|------------|-----------|-------|-----------------------|-------------------|----|
| | | Power | | Speed | Current | Torque | Current | Torque | | | | Run | Start | | | |
| | | HP | kW | rpm | A | Nm | I _A / I _N | M _A / M _N | | | | μF | μF | | | |
| 2 pole 3000 rpm | | | | | | | | | | | | | | | | |
| 230V 50Hz | QC80M2A | Aluminium | 3/4 | 0.55 | 2800 | 3.80 | 1.88 | 4.9 | 2.70 | 2.10 | 64 | 0.98 | 20 | 124-149 | 0.00092 | 10 |
| | QC80M2B | Aluminium | 1.0 | 0.75 | 2800 | 4.95 | 2.56 | 4.9 | 2.70 | 2.10 | 68 | 0.98 | 25 | 124-149 | 0.00107 | 11 |
| | QC80M2C | Aluminium | 1.5 | 1.10 | 2800 | 7.70 | 3.75 | 5.1 | 2.60 | 2.00 | 68 | 0.86 | 30 | 145-175 | 0.00126 | 12 |
| | QC90S2A | Aluminium | 1.5 | 1.10 | 2800 | 7.60 | 3.75 | 5.0 | 2.95 | 2.10 | 72 | 0.88 | 30 | 189-227 | 0.00118 | 15 |
| | QC90L2A | Aluminium | 2.0 | 1.50 | 2810 | 9.10 | 5.10 | 5.1 | 2.95 | 2.10 | 74 | 0.94 | 40 | 189-227 | 0.00152 | 17 |
| | QC90L2C | Aluminium | 3.0 | 2.20 | 2780 | 14.50 | 7.53 | 5.2 | 2.95 | 2.10 | 74 | 0.90 | 50 | 280-333 | 0.00172 | 19 |
| | QC100L2B | Aluminium | 4.0 | 3.00 | 2860 | 17.80 | 10.10 | 2.5 | 1.80 | 1.80 | 75 | 0.97 | 80 | 189-227 | 0.00213 | 23 |
| 4 pole 1500 rpm | | | | | | | | | | | | | | | | |
| 230V 50Hz | QC80M4A | Aluminium | 1/2 | 0.37 | 1390 | 2.80 | 2.54 | 4.5 | 2.50 | 1.80 | 66 | 0.84 | 20 | 130-156 | 0.00167 | 10 |
| | QC80M4B | Aluminium | 3/4 | 0.55 | 1390 | 3.70 | 3.80 | 4.5 | 2.55 | 1.80 | 69 | 0.98 | 25 | 130-156 | 0.00204 | 11 |
| | QC80M4C | Aluminium | 1.0 | 0.75 | 1370 | 5.00 | 5.20 | 4.6 | 2.65 | 1.75 | 69 | 0.95 | 30 | 130-156 | 0.00229 | 12 |
| | QC90S4A | Aluminium | 1.0 | 0.75 | 1400 | 5.80 | 5.15 | 4.8 | 2.85 | 1.80 | 68 | 0.93 | 30 | 145-175 | 0.00237 | 15 |
| | QC90L4A | Aluminium | 1.5 | 1.10 | 1400 | 7.40 | 7.50 | 4.9 | 2.95 | 1.90 | 69 | 0.90 | 40 | 145-175 | 0.00309 | 17 |
| | QC90L4C | Aluminium | 2.0 | 1.50 | 1400 | 10.70 | 10.31 | 5.3 | 2.85 | 1.60 | 69 | 0.90 | 50 | 145-175 | 0.00351 | 19 |
| | QC100L4B | Aluminium | 3.0 | 2.20 | 1415 | 14.20 | 15.30 | 3.0 | 1.90 | 1.80 | 76 | 0.94 | 75 | 145-175 | 0.00471 | 24 |

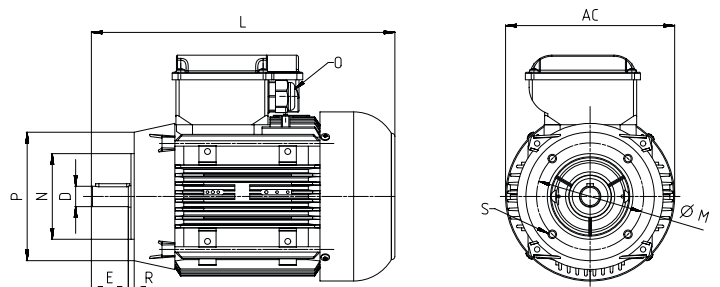
DIMENSION



B3-B6-B7-B8-V5-V6



B14-V18-V19



B5-V1-V3

| Frame Size | Housing Type | No. Of poles | Main Dimensions | | | Foot Mounted Motors | | | | | | Shaft | | | Bearing | | Seal | | Flange | | | | | | | |
|------------|--------------|--------------|-----------------|-----|-------|---------------------|-----|-----|-----|-----|----|------------------|----|------|------------------|------------|----------------|------------|----------------|---------------|-------------|-----|------------------|-----|----|------|
| | | | AC | L | O | B | A | H | HD | K | C | D ⁽¹⁾ | E | GA | F ⁽²⁾ | Drive Side | Non Drive Side | Drive Side | Non Drive Side | Mounting Type | Flange Type | P | N ⁽³⁾ | M | R | S |
| 80 M | Aluminium | 2...4 | 158 | 284 | 1*M20 | 100 | 125 | 80 | 215 | 10 | 50 | 19 | 40 | 21.5 | 6 | 6204-2Z | 6204-2Z | 20*30*7 | 20*30*7 | B5 | FA | 200 | 130 | 165 | 0 | 12 |
| | | | | B14 | FB | 160 | 110 | 130 | 0 | M8 | | | | | | | | | | | | | | | | |
| 90 | Aluminium | 2...4 | 193 | 297 | 1*M20 | 100 | 140 | 90 | 241 | 10 | 56 | 24 | 50 | 27.0 | 8 | 6305-2Z | 6205-2Z | 25*40*7 | 25*40*7 | B5 | FA | 200 | 130 | 165 | 0 | 12 |
| | | | | B14 | FB | 160 | 110 | 130 | 0 | M8 | | | | | | | | | | | | | | | | |
| 100 L | Aluminium | 2...4 | 217 | 317 | 1*M25 | 125 | 160 | 100 | 241 | 12 | 63 | 28 | 60 | 31.0 | 8 | 6306-2Z | 6205-2Z | 30*47*7 | 25*40*7 | B5 | FA | 250 | 180 | 215 | 0 | 14.5 |
| | | | | B14 | FB | 200 | 130 | 165 | 0 | M10 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | B14 | FC | 160 | 110 | 130 | 0 | M8 | |

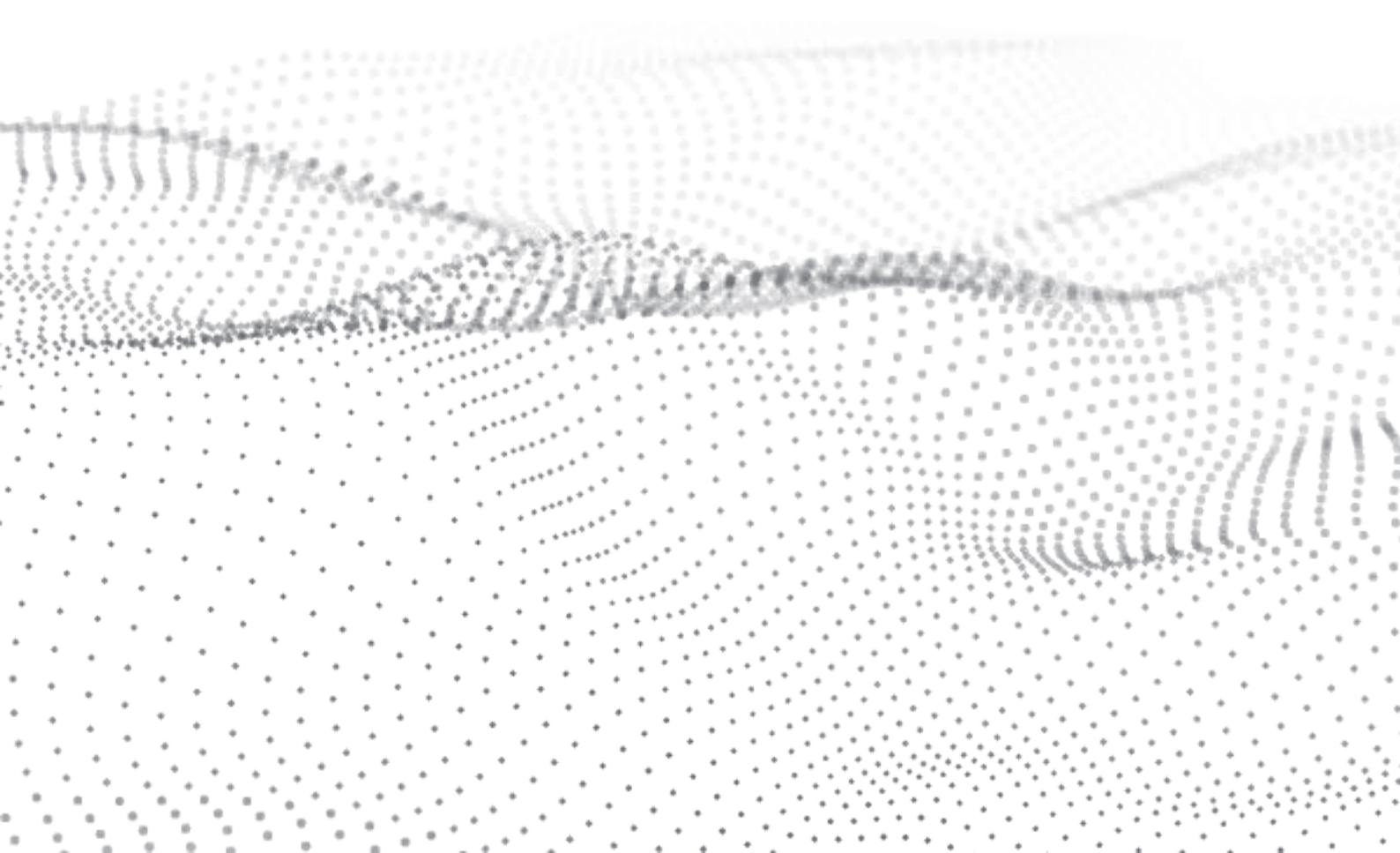
Dimensions are in mm

(1) Tolerance DIN EN 50347 "j6"

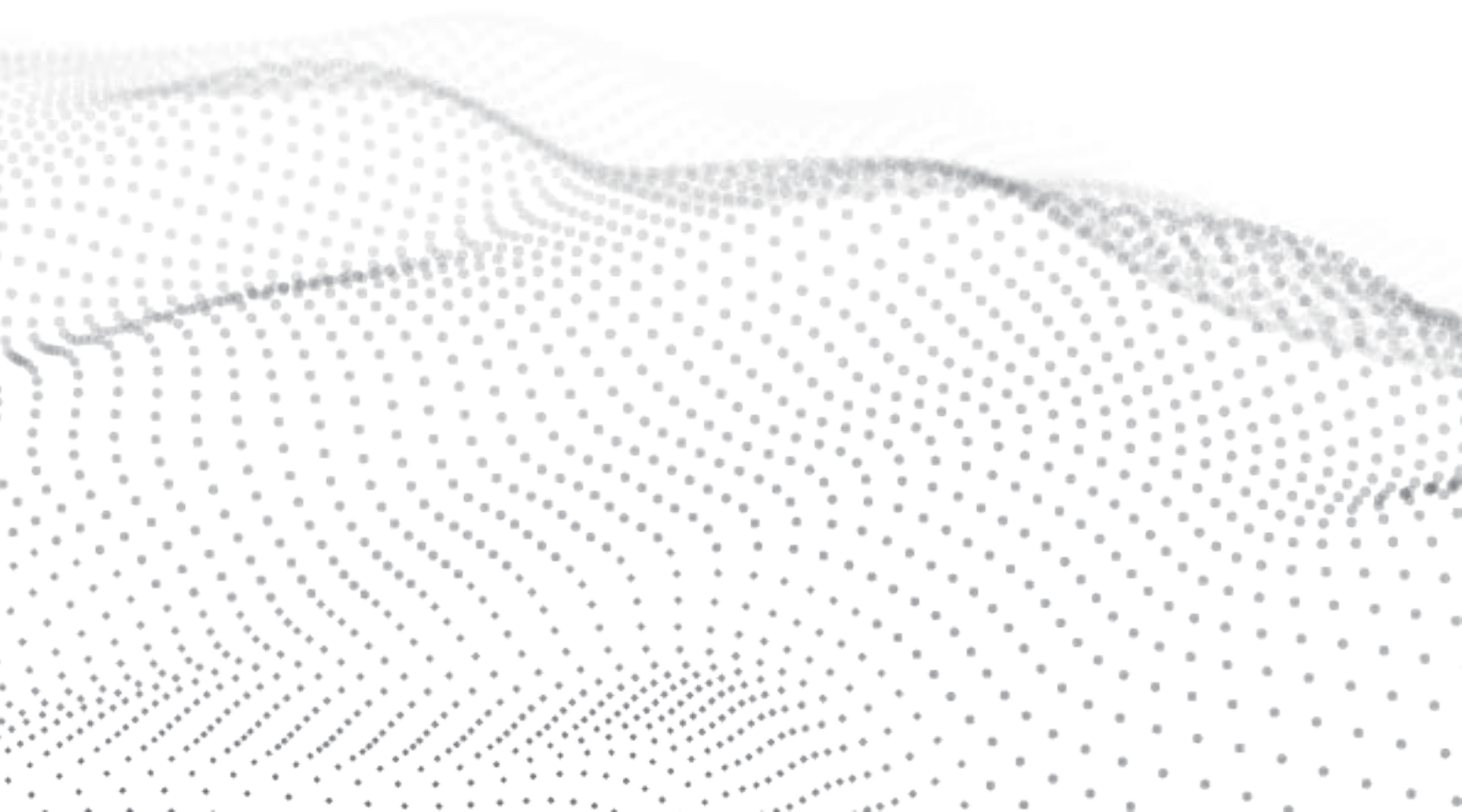
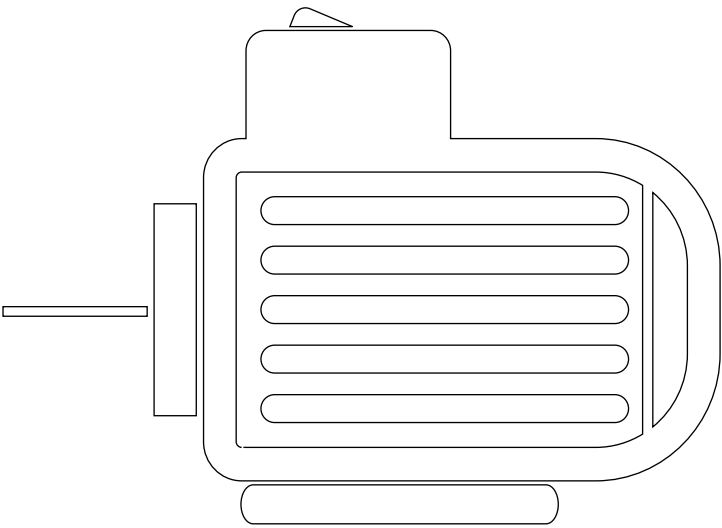
(2) According to DIN 6885

(3) Tolerance DIN EN 50347 "j6"



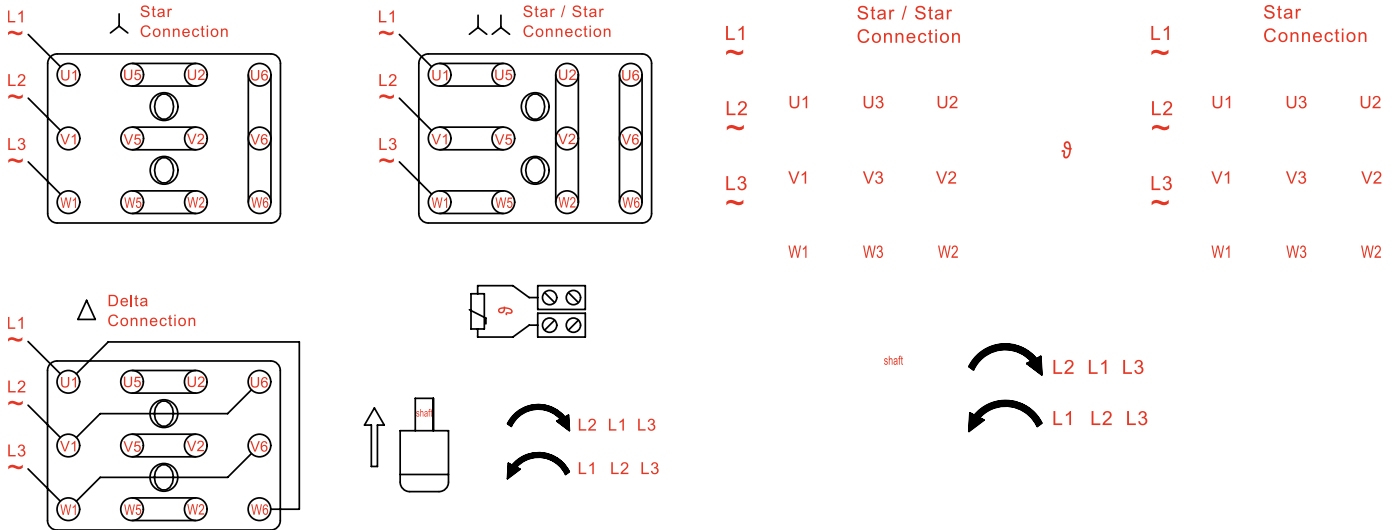


SPECIAL MOTORS



DOUBLE VOLTAGE MOTORS

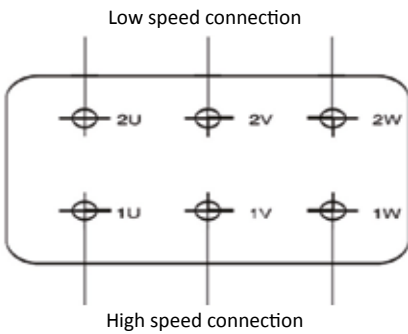
9-lead motors with YY / Y connection and 12-lead motors with Δ /YY/Y connection. Generally designed for 230/460V 60Hz operating values, these motors address different mains voltage needs.



SEPARATE WINDING MOTORS

9-lead motors with YY / Y connection and 12-lead motors with Δ /YY/Y connection. Generally designed for 230/460V 60Hz operating values, these motors address different mains voltage needs.

Q1E112M2/12D 380V 50Hz 4.9/0.8kW 2900/385 d/d





ANTI-CONDENSATION HEATER

Humidity, particularly on motor windings operating in humid environment, reduces insulation resistance and causes shorter motor life. In such applications, with the heaters placed on motor winding, the humidity of windings are removed before starting the motor.

H INSULATION CLASS MOTORS

Our standard motors have Class F insulation. However, we also manufacture motors with Class H insulation.

| Ambient Temperature | Winding Temperature Rise Limit | Tolerance |
|---------------------|--------------------------------|-----------|
| 40 | 125 | 15 |

180 °

UL CERTIFIED MOTORS

We also manufacture UL certified motors upon request.

BUREU VERITAS CERTIFIED MOTORS

We also produce Bureau Veritas Certified marine motors upon request

SPECIAL VOLTAGE MOTORS

Different from standard voltages, we also manufacture motors in different voltage steps (290/500V, 330/570V etc) upon request.

SPECIAL FREQUENCY MOTORS

Different from standard frequencies, we also manufacture motors in different frequencies (32Hz, 87Hz etc) upon request.

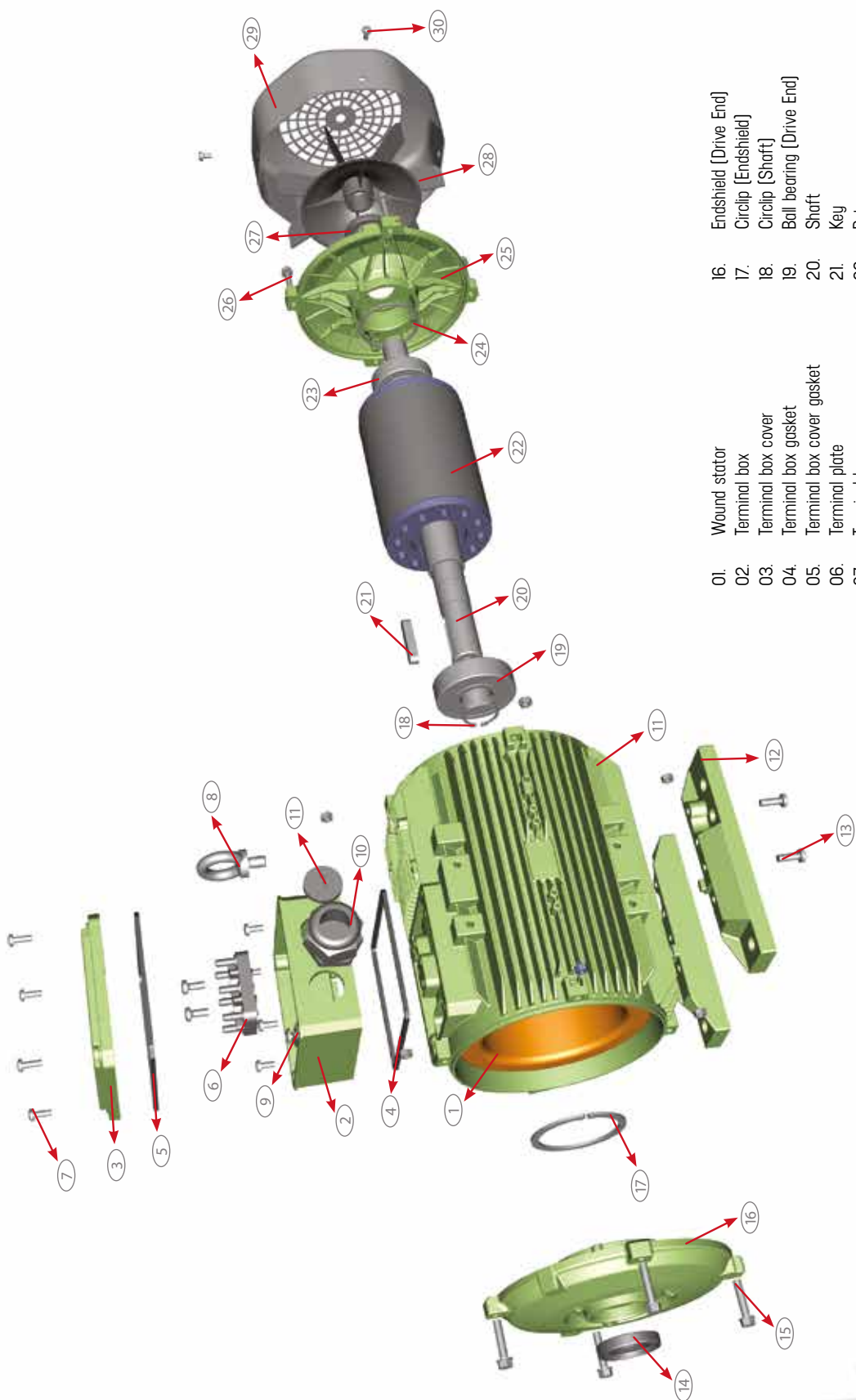
SPECIAL BEARING MOTORS

We manufacture motors with bearings that suit to various temperature steps (150°C , 200°C etc) and axial-radial loads for different applications.

OTHER SPECIAL APPLICATIONS

- Special axle or double axle motors
- Special flange motors
- Fixed bearing motors
- Drain hole to remove condensation
- Use of thermic or thermistor to prevent motor winding temperature from rising above limit values
- Inverter duty motors

MOTOR PART LIST



- | | | | |
|-----|------------------------------|-----|----------------------------------|
| 01. | Wound stator | 16. | Endshield (Drive End) |
| 02. | Terminal box | 17. | Circlip (Endshield) |
| 03. | Terminal box cover | 18. | Circlip (Shaft) |
| 04. | Terminal box gasket | 19. | Ball bearing (Drive End) |
| 05. | Terminal box cover gasket | 20. | Shaft |
| 06. | Terminal plate | 21. | Key |
| 07. | Terminal box screws | 22. | Rotor |
| 08. | Eyebolt | 23. | Ball bearing (Non-drive End) |
| 09. | Grounding screw | 24. | Spring washer |
| 10. | Cable gland | 25. | Endshield (Non-drive End) |
| 11. | Blind Plug | 26. | Endshield screws (Non-drive End) |
| 12. | Foot | 27. | Seal (Non-drive End) |
| 13. | Foot screws | 28. | Fan |
| 14. | Seal (Drive End) | 29. | Fan cover |
| 15. | Endshield screws (Drive End) | 30. | Fan cover screws |



WAT Motor Sanayi ve Ticaret A.Ş. reserves the right
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