

PRODUCTS CATALOG
COMMERCIAL AND INDUSTRIAL

CMP
Century
motors
Producer



EXPLOSION PROOF MOTORS
THREE PHASE

Introduction

CMP's E2AD/E3AD range of IE2/IE3 Ex d / Exde 'flameproof' motors are certified for use in Zone 1, Class 1, Group IIA, IIB, IIC hazardous locations. These motors are designed to contain any sparks within the motor without igniting external vapours. They incorporate features such as a robust cast iron construction and special terminal box to meet the stringent certification requirements.

The complete E2AD/E3AD range covers sizes 63 to 450, three phase 2, 4, 6, 8 & 10 pole, with foot and flange mounting options .

Certification

The E2AD/E3AD range is specially designed and certified to the essential health and safety requirements by compliance with applied standard: IEC60079-0-2018, EN 60079-1:2014, EN60079-31:2014, EN1127-1:2019.



ATEX certification number is **ECM 20 ATEX-B WQ50**

II 2G Ex d IIB T4 Gb (T3, T5, T6 as optional) Tamb: -45°C to 60°C

II 2G Ex d IIC T4 Gb (T3, T5, T6 as optional) Tamb: -45°C to 60°C

II 2G Ex d e IIC T4 Gb (T3, T5, T6 as optional) Tamb: -45°C to 60°C

II 2D Ex tb IIIC T85°C... T150°C Db IP65 Tamb: -45°C to 60°C

Standards and specifications

The main dimensions and rated outputs of the E2AD/E3AD series generally conform to International Standards IEC 60034 and IEC 60072.

Operating parameters

Motors are designed with the following parameters:

- Continuous duty (S1)
- Ambient temperatures up to 60°C
- Installation at altitudes up to 1000 metres
- Motors may be suitable for other operating parameters, enquire with CMP.

Performance data is based on these parameters and may need adjustment for different conditions. Motors can be manufactured for any supply between 100 and 1100 Volts and frequencies 0 Hz to 70 Hz.

Terminal box

The terminal box of the E2AD/E3AD series is amply sized to allow for termination of cables and to accept flameproof glands. Cable entry size as below table :

| Motor Frame | Cable Entry | Thermistor Entry |
|-------------|---------------|------------------|
| 63~71 | 2 x M25 x 1.5 | 1 x M20 x 1.5 |
| 80~100 | 2 x M25 x 1.5 | 1 x M20 x 1.5 |
| 112~132 | 2 x M32 x 1.5 | 1 x M20 x 1.5 |
| 160~180 | 2 x M32 x 1.5 | 1 x M20 x 1.5 |
| 200~225 | 1 x M50 x 1.5 | 1 x M20 x 1.5 |
| 250~280 | 1 x M63 x 1.5 | 1 x M20 x 1.5 |
| 315~355 | 2 x M63 x 1.5 | 1 x M20 x 1.5 |

F class insulation, T4 surface temperature

E2AD/E3AD series motors have F class insulation and B class temperature rise. This design feature assures cool running of the motor. Certified Ex d T4 class motors have a maximum allowable surface temperature of 135°C. (T6= 85°C ,T5=100°C , T3=200°C) surface temperature class is available on request.

Degree of protection

Level of enclosure protection for the E2AD/E3AD series is IP55. For IP65, IP56 or IP66 is available on request.

Thermistors

E2AD/E3AD, (T4, T5, T6) motors are fitted, as standard, with one set of (3) 145°C PTC thermistors and are terminated within the main terminal box.

Internal connections

Frame sizes 63 to 100 have three terminals suitable for DOL starting. Frame sizes 132 to 315 have six terminals suitable for DOL or Star/Delta starting.

VVVF drive selection

E2AD/E3AD Ex d hazardous location motors require thermistors when used in conjunction with VVVF drive to ensure the temperature rise remains below the certified T4 level. Exd/VVVF drive packages are available including a force ventilation option on request.

Bearing

Bearings fitted are deep groove ball type and are the same size both ends on frames 63 to 132. 315 Frame motors have a deep groove ball type bearing on the Non Drive end, with a deep groove ball bearing on the drive end for 2 Pole motors, and a cylindrical roller bearing for 4, 6, and 8 Pole motors. Frames 80 to 180 have sealed for life bearings. Frames 200 to 315 have open bearings that are capable of being replenished via grease nipples.

| Frame Size | DE | | NDE | |
|------------|------|------|------|------|
| | 2P | 4P | 2P | 4P |
| 63 | 6201 | | 6201 | |
| 71 | 6202 | | 6202 | |
| 80 | 6204 | | 6204 | |
| 90 | 6205 | | 6205 | |
| 100 | 6206 | | 6206 | |
| 112 | 6206 | | 6206 | |
| 132 | 6208 | | 6208 | |
| 160 | 6209 | 6309 | 6209 | |
| 180 | 6211 | 6311 | 6211 | |
| 200 | 6212 | 6312 | 6212 | |
| 225 | 6312 | 6313 | 6312 | |
| 250 | 6313 | 6314 | 6313 | |
| 280 | 6314 | 6317 | 6314 | |
| 315 | 6316 | 6319 | 6316 | 6319 |
| 355 | 6319 | 6322 | 6319 | 6322 |

Paint finish

Motors are painted with a high quality enamel finish. The standard colour is Bright Red Orange (RAL 2008), with other colours available on request.

Gaseous Hazards

Explosive gas atmospheres are classified into zones based on the frequency and duration of their occurrence as below:

- Zone 0: an area in which an explosive gas atmosphere is present continuously, for long periods, or is present frequently.
- Zone 1: an area in which an explosive gas atmosphere is likely to occur in normal operation occasionally.
- Zone 2: an area in which an explosive gas atmosphere is not likely to occur in normal operation, and if it does occur it will exist for a short period only.

Electrical apparatus for potentially explosive atmospheres is divided into the following groups.

Group I : mines susceptible to fire damp (methane)

Group II : other industries

High surface temperatures can cause ignition of flammable gases or vapors therefore the surface temperature of equipment in hazardous areas must not exceed the ignition temperature of these gases or vapors.

Group I : electrical equipment may not have a surface temperature that exceeds 150°C where coal dust can form a layer, and 450°C for internal surfaces where the above risk is avoided by sealing against ingress or dust.

Group II : electrical equipment may not have a surface temperature that exceeds its specified temperature class, as listed in the table below:

| Temperature class of electrical equipment | Maximum surface temperature of electrical equipment | Ignition temperature of gas or vapor |
|---|---|--------------------------------------|
| T1 | ≤450°C | >450°C |
| T2 | ≤300°C | >300°C |
| T3 | ≤200°C | >200°C |
| T4 | ≤135°C | >135°C |
| T5 | ≤100°C | >100°C |
| T6 | ≤85°C | >85°C |

Electrical apparatus of Group II may be subdivided according to the nature of the potentially explosive atmosphere for which it is intended.

Group specification and characteristics of some common flammable liquids, gases, and vapors are listed in the table below:

| Material | Bolling point [°C] | Flash point [°C] | Ignition temp. [°C] | Gas group |
|------------------|----------------------|--------------------|-----------------------|-----------|
| Acetone | 56 | -20 | 465 | IIA |
| Acetylene | -83 | Gas | 305 | IIC |
| Ammonia | -33 | Gas | 651 | IIA |
| Benzene | 80 | 12 | 498 | IIA |
| Butane | -1 | Gas | 287 | IIA |
| Carbon-Monoxide | -192 | Gas | 609 | IIA |
| Ethane | -89 | Gas | 472 | IIA |
| Ethyl Alcohol | 78 | 55 | 363 | IIA |
| Ethylene | -104 | Gas | 450 | IIB |
| Haptane | 98 | -4 | 204 | IIA |
| Hydrogen | -252 | Gas | 500 | IIC |
| Hydrogen cyanide | 26 | -18 | 538 | IIB |
| Methane | -162 | Gas | 537 | IIA |
| Propane | -42 | Gas | 432 | IIA |
| Toluene | 111 | 4 | 480 | IIA |

Note: The data given in this table is derived from NFPA 325M. Flashpoint is the lowest temperature at which a material gives off sufficient vapor to form an explosive gas / air mixture in the air immediately above the surface.

Equipment within a specific group may only be used within a location with an equal or less level of hazard. Allowable groups are summarized in the table below:

| Gas group | Allowable equipment group |
|-----------|---------------------------|
| IIA | IIA, IIB, IIC |
| IIB | IIB, IIC |
| IIC | IIC |

Dual certification

Ex d/de motors can also be used for Dust/Ex t applications in zone 21. The following combinations are possible:

- Ex tb IIIB T125 °C Db, IP 65 for zone 21 + Ex d/de IIB/C T3 Gb
- Ex tb IIIC T125 °C Db, IP 65 for zone 21 + Ex d/de IIB/C T3 Gb

ExtD Dust Proof

Dust-excluding ignition proofing (Ex tD) type of protection describes electrical equipment which is enclosed so that it excludes dust, and which will not permit arcs, sparks or heat otherwise generated or liberated inside the enclosure to cause ignition of exterior accumulations or atmospheric suspensions of a specific dust on or in the vicinity of the enclosure.

Dust-excluding ignition proofed (Ex tD) motors are suitable for Zone 21 and 22 dust laden hazardous areas, and CMP Australia provides for a temperature class of T4 (135°C) in a 50°C ambient.

Combustible dust hazards

Many dusts which are generated, processed, handled and stored, are combustible. When ignited, they can burn rapidly and with considerable explosive force if mixed with air in the appropriate proportions. Electrical apparatus used in locations where this hazard is present, requires adequate protection so as to reduce the likelihood of ignition of the external explosive atmosphere.

Areas where dusts, flyings and fibres in air occur in dangerous quantities are classified as hazardous and are divided into three zones according to the level of risk.

Zone 20: An area in which combustible dust, as a cloud, is present continuously or frequently during normal operation, in sufficient quantity to be capable of producing an explosive dust/air mixture, and/or where layers of dust of uncontrollable and excessive thickness can be formed.

Zone 21: An area not classified as Zone 20 in which combustible dust, as a cloud, is likely to occur during normal operation, in sufficient quantities to be capable of producing an explosive dust/air mixture.

Zone 22: An area not classified as Zone 21 in which combustible dust clouds may occur infrequently, and persist for only a short period, or in which accumulations or layers of combustible dust may be present under abnormal conditions and give rise to combustible dust/air mixtures. Where, following an abnormal condition, the removal of dust accumulations or layers cannot be assured then the area is to be classified.

Ignition protection is based on the limitation of the maximum surface temperature of the enclosure and on other surfaces which could be in contact with dust and on the restriction of dust ingress into the enclosure by the use of dust tight or dust protected enclosures.

The following table summarizes the relationship between temperature class, surface temperature and cloud or layer ignition temperature (whichever is the lower)

| Temperature class of electrical equipment | Maximum surface temperature of electrical equipment | Cloud or layer ignition temperature of dust |
|---|---|---|
| T1 | ≤450°C | ≥500°C |
| T2 | ≤300°C | ≥350°C |
| T3 | ≤200°C | ≥250°C |
| T4 | ≤135°C | ≥185°C |
| T5 | ≤100°C | ≥150°C |
| T6 | ≤85°C | ≥135°C |

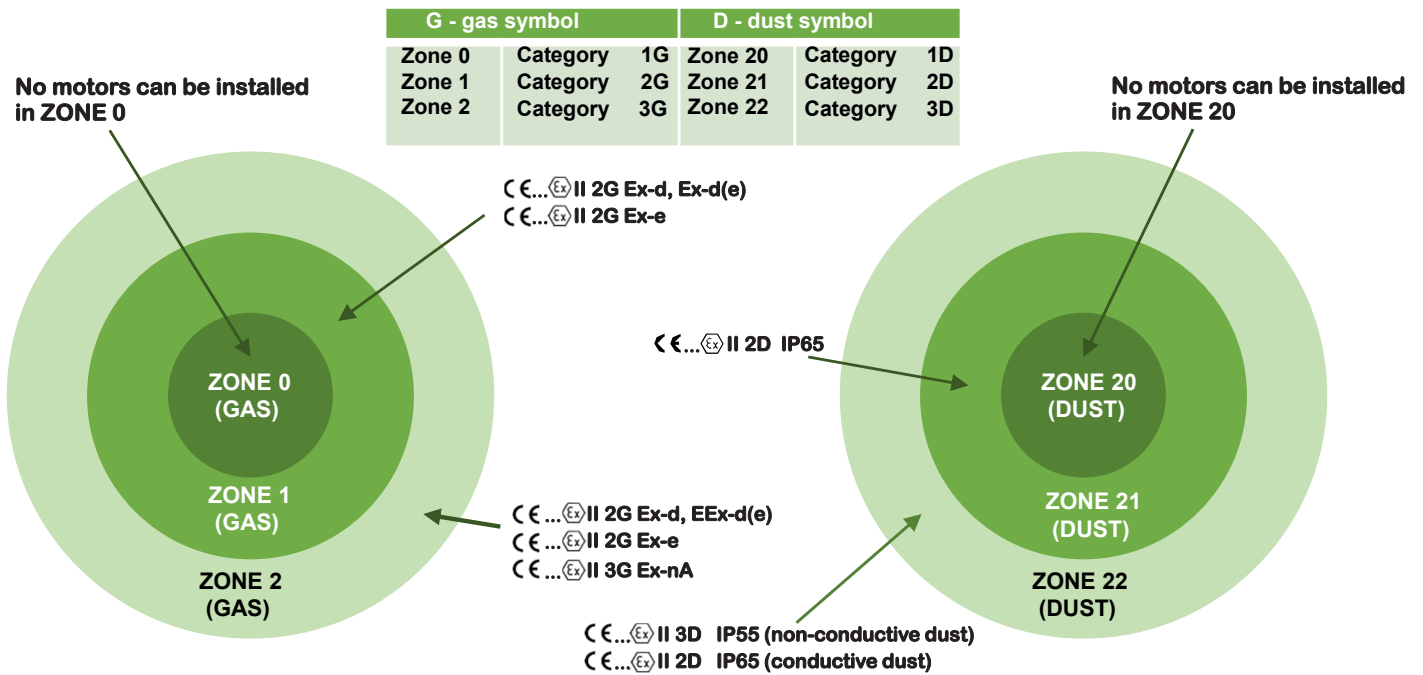
Specifications and characteristics of some common combustible dusts are listed in the table below:

| Material | Minimum ignition [mJ] | Ignition Temperature | |
|--------------------|-------------------------|----------------------|--------------|
| | | Cloud [°C] | Layer [°C] |
| Aluminium | 15 | 550 | 740 |
| Cellulose | 80 | 480 | 270 |
| Com | 40 | 400 | 250 |
| Flax | 80 | 230 | 430 |
| Polypropylene | 30 | 420 | -- |
| Rayon | 2400 | 520 | 250 |
| Rice | 50 | 440 | 220 |
| Rubber-(synthetic) | 30 | 320 | -- |
| Sugar | 30 | 370 | 400 |
| Wheat flour | 50 | 380 | 360 |

ATEX Categories Explanation

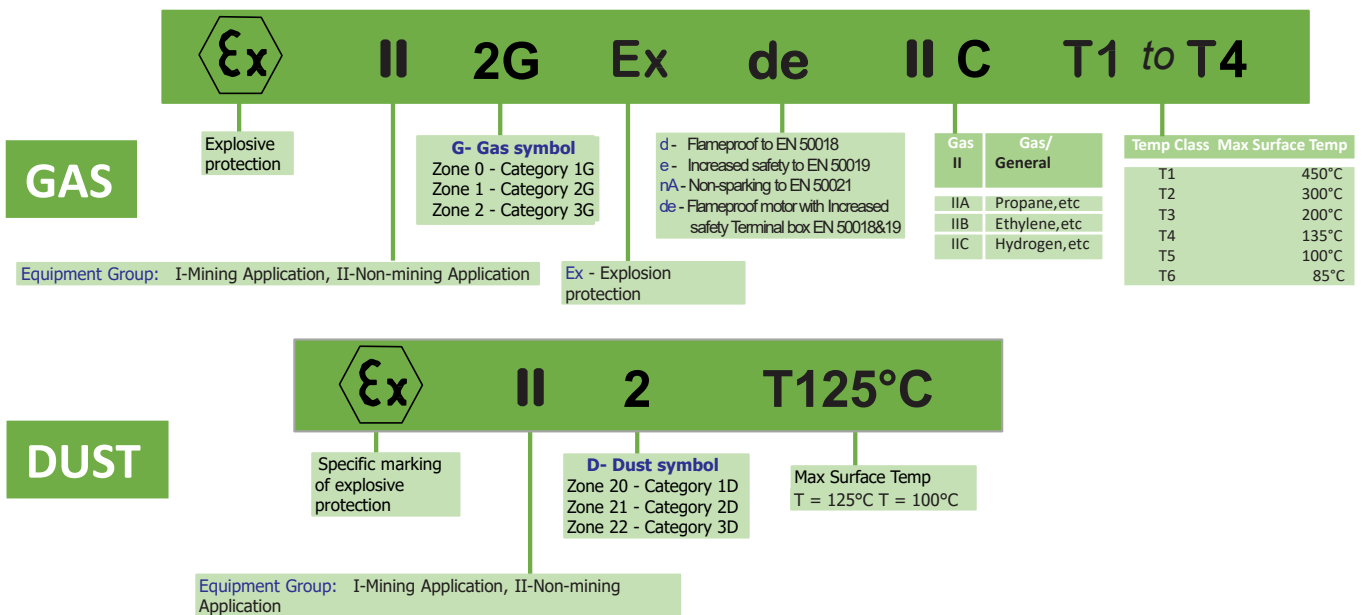
Electric Motors for GAS Explosive Atmospheres

Electric Motors for DUST Explosive Atmospheres



| GAS | | DUST | |
|--------|--|---------|--|
| Zone 0 | Explosive Gases present continuously | Zone 20 | Explosive Dust Atmosphere present continuously |
| Zone 1 | Explosive Gases likely to occur in normal service | Zone 21 | Explosive Dust Atmosphere likely to occur in normal service |
| Zone 2 | Explosive Gases unlikely to occur and would be infrequent and short term | Zone 22 | Explosive Dust Atmosphere unlikely to occur and would be infrequent and short term |

ATEX Marking of equipment protection



PERFORMANCE DATA IE2

PERFORMANCE DATA IE2

| FRAME | Output Power | | Full load Current (A) | | | Speed r/min | Eff % | Power Factory φ | Torque | | | Current | Weight |
|---------------------------|--------------|------|-----------------------|------|------|----------------|-------|-----------------------|----------------------|---------------------------|--------------------------|---------------------------|--------|
| | KW | HP | 380V | 400V | 415V | | | | Full Load (Nm) | Locked rotor Tst/Tn | Max torque Tmax/TN | Locked rotor Ist/In | Kg |
| 3000 RPM = 2 POLES | | | | | | | | | | | | | |
| E2AD 63M1-2 | 0.18 | 0.25 | 0.52 | 0.50 | 0.48 | 2720 | 66.0 | 0.80 | 0.66 | 2.2 | 2.3 | 5.0 | 14 |
| E2AD 63M2-2 | 0.25 | 0.33 | 0.69 | 0.66 | 0.63 | 2720 | 68.0 | 0.81 | 0.94 | 2.2 | 2.3 | 5.0 | 15 |
| E2AD 71M1-2 | 0.37 | 0.5 | 1.0 | 0.94 | 0.91 | 2740 | 70.0 | 0.81 | 1.34 | 2.2 | 2.3 | 5.5 | 17 |
| E2AD 71M2-2 | 0.55 | 0.75 | 1.4 | 1.3 | 1.3 | 2740 | 73.0 | 0.83 | 2.0 | 2.2 | 2.3 | 5.5 | 20 |
| E2AD 80M1-2 | 0.75 | 1.0 | 1.8 | 1.7 | 1.6 | 2875 | 77.4 | 0.83 | 2.5 | 2.2 | 2.3 | 6.0 | 24 |
| E2AD 80M2-2 | 1.1 | 1.5 | 2.5 | 2.4 | 2.3 | 2875 | 79.6 | 0.84 | 3.7 | 2.2 | 2.3 | 6.0 | 25 |
| E2AD 90S-2 | 1.5 | 2.0 | 3.3 | 3.2 | 3.0 | 2890 | 81.3 | 0.84 | 5.0 | 2.2 | 2.3 | 7.0 | 35 |
| E2AD 90L-2 | 2.2 | 3.0 | 4.7 | 4.5 | 4.3 | 2890 | 83.2 | 0.85 | 7.4 | 2.2 | 2.3 | 7.0 | 38 |
| E2AD 100L-2 | 3 | 4.0 | 6.2 | 5.9 | 5.7 | 2891 | 84.6 | 0.87 | 10.0 | 2.2 | 2.3 | 7.0 | 44 |
| E2AD 112M-2 | 4 | 5.5 | 8.0 | 7.6 | 7.4 | 2914 | 85.8 | 0.88 | 13.3 | 2.2 | 2.3 | 7.0 | 46 |
| E2AD 132S1-2 | 5.5 | 7.5 | 11.2 | 10.6 | 10.2 | 2918 | 87.0 | 0.88 | 18.1 | 2.2 | 2.3 | 7.5 | 81 |
| E2AD 132S2-2 | 7.5 | 10 | 14.6 | 13.9 | 13.4 | 2920 | 88.1 | 0.88 | 24.7 | 2.2 | 2.4 | 7.5 | 89 |
| E2AD 160M1-2 | 11 | 15 | 21.0 | 20.0 | 19.2 | 2930 | 89.4 | 0.89 | 35.9 | 2.2 | 2.4 | 7.5 | 142 |
| E2AD 160M2-2 | 15 | 20 | 28.4 | 26.9 | 26.0 | 2930 | 90.3 | 0.89 | 48.9 | 2.2 | 2.4 | 7.5 | 152 |
| E2AD 160L-2 | 18.5 | 25 | 34.7 | 33.0 | 31.8 | 2937 | 90.9 | 0.89 | 60.3 | 2.2 | 2.4 | 7.5 | 169 |
| E2AD 180M-2 | 22 | 30 | 41.6 | 39.5 | 38.1 | 2940 | 91.3 | 0.89 | 71.5 | 2.0 | 2.3 | 7.5 | 227 |
| E2AD 200L 1-2 | 30 | 40 | 56.2 | 53.4 | 51.5 | 2950 | 92.0 | 0.88 | 97.1 | 2.0 | 2.4 | 7.5 | 265 |
| E2AD 200L2-2 | 37 | 50 | 68.2 | 64.8 | 62.5 | 2950 | 92.5 | 0.89 | 120 | 2.0 | 2.4 | 7.5 | 275 |
| E2AD 225M-2 | 45 | 60 | 82.5 | 78.4 | 75.6 | 2960 | 92.9 | 0.89 | 145 | 2.0 | 2.3 | 7.6 | 340 |
| E2AD 250M-2 | 55 | 75 | 99.5 | 94.8 | 91.1 | 2965 | 93.2 | 0.90 | 177 | 2.1 | 2.3 | 7.6 | 477 |
| E2AD 280S-2 | 75 | 100 | 135 | 128 | 123 | 2970 | 93.8 | 0.90 | 241 | 2.0 | 2.3 | 7.5 | 655 |
| E2AD 260M-2 | 90 | 120 | 160 | 152 | 146 | 2970 | 94.1 | 0.91 | 289 | 2.1 | 2.3 | 7.5 | 733 |
| E2AD 315S-2 | 110 | 150 | 194 | 185 | 178 | 2970 | 94.3 | 0.91 | 353 | 1.8 | 2.3 | 7.0 | 1140 |
| E2AD 315M-2 | 132 | 180 | 233 | 221 | 213 | 2975 | 94.6 | 0.91 | 424 | 1.8 | 2.3 | 7.0 | 1170 |
| E2AD 315L1-2 | 160 | 220 | 278 | 265 | 255 | 2975 | 94.8 | 0.92 | 514 | 1.8 | 2.3 | 7.0 | 1385 |
| E2AD 315L2-2 | 200 | 270 | 348 | 330 | 318 | 2975 | 95.0 | 0.92 | 642 | 1.8 | 2.3 | 7.0 | 1610 |
| E2AD 355M1-2 | 220 | 300 | 383 | 364 | 351 | 2985 | 95.0 | 0.92 | 704 | 1.6 | 2.4 | 7.0 | 1680 |
| E2AD 355M2-2 | 250 | 340 | 434 | 412 | 398 | 2980 | 95.0 | 0.92 | 801 | 1.6 | 2.4 | 7.0 | 1720 |
| E2AD 355L 1-2 | 280 | 380 | 485 | 461 | 444 | 2985 | 95.0 | 0.92 | 896 | 1.6 | 2.4 | 7.0 | 1780 |
| E2AD 355L2-2 | 315 | 430 | 547 | 520 | 501 | 2980 | 95.0 | 0.92 | 1010 | 1.6 | 2.4 | 7.0 | 1850 |

PERFORMANCE DATA IE2

| FRAME | Output Power | | Full load Current (A) | | | Speed r/min | Eff % | Power Factory φ | Torque | | | Current | Weight |
|---------------------------|--------------|------|-----------------------|------|------|----------------|-------|-----------------------|----------------------|---------------------------|--------------------------|---------------------------|--------|
| | KW | HP | 380V | 400V | 415V | | | | Full Load (Nm) | Locked rotor Tst/Tn | Max torque Tmax/TN | Locked rotor Ist/In | Kg |
| 1500 RPM = 4 POLES | | | | | | | | | | | | | |
| E2AD 63M2-4 | 0.18 | 0.25 | 0.60 | 0.57 | 0.55 | 1310 | 63.0 | 0.73 | 1.37 | 2.2 | 2.3 | 4.0 | 16 |
| E2AD 71M1-4 | 0.25 | 0.33 | 0.78 | 0.74 | 0.71 | 1330 | 66.0 | 0.74 | 1.87 | 2.2 | 2.3 | 4.0 | 17 |
| E2AD 71M2-4 | 0.37 | 0.5 | 1.09 | 1.03 | 1.00 | 1330 | 69.0 | 0.75 | 2.77 | 2.2 | 2.3 | 4.0 | 19 |
| E2AD 80M1-4 | 0.55 | 0.75 | 1.5 | 1.4 | 1.3 | 1390 | 75.0 | 0.75 | 3.8 | 2.3 | 2.3 | 6.3 | 24 |
| E2AD 80M2-4 | 0.75 | 1.0 | 1.9 | 1.8 | 1.7 | 1400 | 79.6 | 0.76 | 5.2 | 2.3 | 2.3 | 6.0 | 27 |
| E2AD 90S-4 | 1.1 | 1.5 | 2.7 | 2.5 | 2.4 | 1440 | 81.4 | 0.75 | 7.5 | 2.3 | 2.3 | 6.0 | 34 |
| E2AD 90L-4 | 1.5 | 2.0 | 3.6 | 3.4 | 3.3 | 1445 | 82.8 | 0.75 | 10.2 | 2.3 | 2.3 | 6.0 | 38 |
| E2AD 100L 1-4 | 2.2 | 3.0 | 4.9 | 4.6 | 4.5 | 1440 | 84.3 | 0.81 | 14.8 | 2.3 | 2.3 | 7.0 | 46 |
| E2AD 100L2-4 | 3 | 4.0 | 6.5 | 6.2 | 6.0 | 1440 | 85.5 | 0.82 | 20.2 | 2.3 | 2.3 | 7.0 | 51 |
| E2AD 112M-4 | 4 | 5.5 | 8.6 | 8.1 | 7.8 | 1445 | 86.6 | 0.82 | 26.5 | 2.3 | 2.3 | 7.0 | 68 |
| E2AD 132S-4 | 5.5 | 7.5 | 11.5 | 10.9 | 10.5 | 1445 | 87.7 | 0.82 | 36.5 | 2.3 | 2.3 | 7.0 | 85 |
| E2AD 132M-4 | 7.5 | 10 | 15.3 | 14.5 | 14.0 | 1445 | 88.7 | 0.83 | 49.7 | 2.3 | 2.3 | 7.0 | 105 |
| E2AD 160M-4 | 11 | 15 | 22.1 | 21.0 | 20.3 | 1460 | 89.8 | 0.85 | 72.0 | 2.2 | 2.3 | 7.0 | 150 |
| E2AD 160L-4 | 15 | 20 | 29.6 | 28.1 | 27.1 | 1460 | 90.6 | 0.86 | 98.1 | 2.2 | 2.3 | 7.5 | 171 |
| E2AD 180M-4 | 18.5 | 25 | 35.8 | 34.0 | 32.8 | 1470 | 91.2 | 0.86 | 121 | 2.2 | 2.3 | 7.5 | 211 |
| E2AD 180L-4 | 22 | 30 | 42.3 | 40.2 | 38.8 | 1470 | 91.6 | 0.86 | 143 | 2.2 | 2.3 | 7.5 | 224 |
| E2AD 200L-4 | 30 | 40 | 57.3 | 54.4 | 52.5 | 1470 | 92.3 | 0.86 | 195 | 2.2 | 2.3 | 7.2 | 290 |
| E2AD 225S-4 | 37 | 50 | 69.7 | 66.2 | 63.8 | 1480 | 92.7 | 0.86 | 240 | 2.2 | 2.3 | 7.2 | 346 |
| E2AD 225M-4 | 45 | 60 | 84.3 | 80.1 | 77.2 | 1480 | 93.1 | 0.86 | 291 | 2.2 | 2.3 | 7.2 | 358 |
| E2AD 250M-4 | 55 | 75 | 103 | 97.5 | 94.0 | 1480 | 93.5 | 0.86 | 356 | 2.2 | 2.3 | 7.2 | 492 |
| E2AD 280S-4 | 75 | 100 | 139 | 132 | 127 | 1480 | 94.0 | 0.88 | 484 | 2.2 | 2.3 | 7.2 | 670 |
| E2AD 280M-4 | 90 | 120 | 167 | 158 | 153 | 1480 | 94.2 | 0.88 | 581 | 2.2 | 2.3 | 6.9 | 743 |
| E2AD 315S-4 | 110 | 150 | 201 | 191 | 184 | 1485 | 94.5 | 0.88 | 710 | 2.1 | 2.2 | 6.9 | 986 |
| E2AD 315M-4 | 132 | 180 | 241 | 229 | 220 | 1485 | 94.7 | 0.88 | 852 | 2.1 | 2.2 | 6.9 | 1070 |
| E2AD 315L1-4 | 160 | 220 | 288 | 273 | 263 | 1485 | 94.9 | 0.89 | 1032 | 2.1 | 2.2 | 6.9 | 1350 |
| E2AD 315L2-4 | 200 | 270 | 359 | 341 | 328 | 1485 | 95.1 | 0.89 | 1291 | 2.1 | 2.2 | 6.9 | 1572 |
| E2AD 355M1-4 | 220 | 300 | 390 | 371 | 357 | 1490 | 95.1 | 0.90 | 1410 | 2.1 | 2.2 | 6.9 | 1690 |
| E2AD 355M2-4 | 250 | 340 | 443 | 421 | 406 | 1490 | 95.1 | 0.90 | 1602 | 2.1 | 2.2 | 6.9 | 1750 |
| E2AD 355L1-4 | 280 | 380 | 495 | 470 | 453 | 1490 | 95.1 | 0.90 | 1795 | 2.1 | 2.2 | 6.9 | 1800 |
| E2AD 355L2-4 | 315 | 430 | 559 | 531 | 511 | 1490 | 95.1 | 0.90 | 2019 | 2.1 | 2.2 | 6.9 | 1850 |

PERFORMANCE DATA IE2

PERFORMANCE DATA IE2

| FRAME | Output Power | | Full load Current (A) | | | Speed r/min | Eff % | Power Factory φ | Torque | | | Current | Weight |
|---------------------------|--------------|------|-----------------------|------|------|----------------|-------|-----------------------|----------------------|---------------------------|--------------------------|---------------------------|--------|
| | KW | HP | 380V | 400V | 415V | | | | Full Load (Nm) | Locked rotor Tst/Tn | Max torque Tmax/TN | Locked rotor Ist/In | Kg |
| 1000 RPM = 6 POLES | | | | | | | | | | | | | |
| E2AD 71M1-6 | 0.18 | 0.25 | 0.67 | 0.64 | 0.61 | 850 | 62.0 | 0.66 | 2.11 | 1.9 | 2.1 | 4.0 | 18 |
| E2AD 71M2-6 | 0.25 | 0.33 | 0.89 | 0.84 | 0.81 | 850 | 63.0 | 0.68 | 2.93 | 1.9 | 2.1 | 4.0 | 19 |
| E2AD 80M1-6 | 0.37 | 0.5 | 1.3 | 1.2 | 0.7 | 910 | 63.0 | 0.70 | 3.9 | 1.9 | 2.1 | 4.0 | 20 |
| E2AD 80M2-6 | 0.55 | 0.75 | 1.5 | 1.4 | 0.9 | 910 | 75.4 | 0.72 | 5.8 | 1.9 | 2.1 | 4.0 | 25 |
| E2AD 90S-6 | 0.75 | 1.0 | 2.1 | 2.0 | 1.9 | 934 | 75.9 | 0.72 | 7.7 | 2.0 | 2.1 | 5.5 | 39 |
| E2AD 90L-6 | 1.1 | 1.5 | 3.0 | 2.8 | 2.7 | 945 | 78.1 | 0.72 | 11.1 | 2.0 | 2.1 | 5.5 | 41 |
| E2AD 100L-6 | 1.5 | 2.0 | 3.8 | 3.6 | 3.5 | 960 | 79.8 | 0.75 | 15.2 | 2.0 | 2.1 | 5.5 | 45 |
| E2AD 112M-6 | 2.2 | 3.0 | 5.4 | 5.1 | 4.9 | 964 | 81.8 | 0.76 | 21.9 | 2.0 | 2.1 | 6.5 | 57 |
| E2AD 132S-6 | 3 | 4.0 | 7.2 | 6.8 | 6.6 | 965 | 83.3 | 0.76 | 29.7 | 2.1 | 2.1 | 6.5 | 84 |
| E2AD 132M1-6 | 4 | 5.5 | 9.4 | 9.0 | 8.6 | 965 | 84.6 | 0.76 | 39.6 | 2.1 | 2.1 | 6.5 | 92 |
| E2AD 132M2-6 | 5.5 | 7.5 | 12.6 | 12.0 | 11.5 | 970 | 86.0 | 0.76 | 54.4 | 2.1 | 2.1 | 6.5 | 104 |
| E2AD 160M-6 | 7.5 | 10 | 16.7 | 15.9 | 15.3 | 970 | 87.2 | 0.77 | 73.8 | 2.0 | 2.1 | 8.5 | 171 |
| E2AD 160L-6 | 11 | 15 | 24.8 | 23.5 | 22.7 | 975 | 88.7 | 0.78 | 108 | 2.0 | 2.1 | 6.5 | 180 |
| E2AD 180L-6 | 15 | 20 | 31.4 | 29.8 | 28.7 | 980 | 89.7 | 0.81 | 147 | 2.0 | 2.1 | 7.0 | 230 |
| E2AD 200L 1-6 | 18.5 | 25 | 38.3 | 36.4 | 35.1 | 980 | 90.4 | 0.81 | 180 | 2.1 | 2.1 | 7.0 | 309 |
| E2AD 200L2-6 | 22 | 30 | 44.3 | 42.0 | 40.5 | 980 | 90.9 | 0.83 | 214 | 2.1 | 2.1 | 7.0 | 320 |
| E2AD 225M-6 | 30 | 40 | 59.2 | 56.2 | 54.2 | 980 | 91.7 | 0.84 | 292 | 2.0 | 2.1 | 7.0 | 364 |
| E2AD 250M-6 | 37 | 50 | 70.8 | 67.3 | 64.8 | 980 | 92.2 | 0.86 | 361 | 2.1 | 2.1 | 7.0 | 535 |
| E2AD 280S-6 | 45 | 60 | 85.8 | 81.5 | 78.5 | 980 | 92.7 | 0.86 | 439 | 2.1 | 2.0 | 7.0 | 643 |
| E2AD 280M-6 | 55 | 75 | 104 | 99.2 | 95.6 | 980 | 93.1 | 0.86 | 536 | 2.1 | 2.0 | 7.0 | 735 |
| E2AD 315S-6 | 75 | 100 | 141 | 134 | 129 | 985 | 93.7 | 0.86 | 727 | 2.0 | 2.0 | 7.0 | 1095 |
| E2AD 315M-6 | 90 | 120 | 169 | 160 | 155 | 985 | 94.0 | 0.86 | 873 | 2.0 | 2.0 | 7.0 | 1153 |
| E2AD 315L1-6 | 110 | 150 | 206 | 196 | 189 | 985 | 94.3 | 0.86 | 1066 | 2.0 | 2.0 | 6.7 | 1330 |
| E2AD 315L2-6 | 132 | 180 | 243 | 231 | 223 | 985 | 94.6 | 0.87 | 1280 | 2.0 | 2.0 | 6.7 | 1485 |
| E2AD 355S-6 | 160 | 220 | 291 | 277 | 267 | 990 | 94.8 | 0.88 | 1543 | 1.9 | 2.0 | 6.7 | 1610 |
| E2AD 355M1-6 | 185 | 250 | 336 | 321 | 310 | 990 | 95.0 | 0.88 | 1785 | 1.9 | 2.0 | 6.7 | 1750 |
| E2AD 355M2-6 | 200 | 270 | 363 | 345 | 333 | 990 | 95.0 | 0.88 | 1929 | 1.9 | 2.0 | 6.7 | 1770 |

PERFORMANCE DATA IE2

| FRAME | Output Power | | Full load Current (A) | | | Speed r/min | Eff % | Power Factory φ | Torque | | | Current | Weight |
|--------------------------|--------------|------|-----------------------|------|------|----------------|-------|-----------------------|----------------------|---------------------------|--------------------------|---------------------------|--------|
| | KW | HP | 380V | 400V | 415V | | | | Full Load (Nm) | Locked rotor Tst/Tn | Max torque Tmax/TN | Locked rotor Ist/In | Kg |
| 750 RPM = 8 POLES | | | | | | | | | | | | | |
| E2AD 80M1-8 | 0.18 | 0.25 | 0.88 | 0.84 | 0.8 | 650 | 51.0 | 0.61 | 2.6 | 1.8 | 1.9 | 3.3 | 20 |
| E2AD 80M2-8 | 0.25 | 0.37 | 1.15 | 1.1 | 1.06 | 650 | 54.0 | 0.61 | 3.7 | 1.8 | 1.9 | 3.3 | 22 |
| E2AD 90S-8 | 0.37 | 0.5 | 1.49 | 1.41 | 1.36 | 660 | 62.0 | 0.61 | 5.4 | 1.8 | 1.9 | 4.0 | 28 |
| E2AD 90L-8 | 0.55 | 0.75 | 2.17 | 2.07 | 1.99 | 660 | 63.0 | 0.61 | 8.0 | 1.8 | 2.0 | 4.0 | 30 |
| E2AD 100L1-8 | 0.75 | 1.0 | 2.4 | 2.28 | 2.19 | 690 | 71.0 | 0.67 | 10.4 | 1.8 | 2.0 | 4.0 | 40 |
| E2AD 100L2-8 | 1.1 | 1.5 | 3.32 | 3.15 | 3.04 | 690 | 73.0 | 0.69 | 15.2 | 1.8 | 2.0 | 5.0 | 46 |
| E2AD 112M-8 | 1.5 | 2.2 | 4.40 | 4.18 | 4.03 | 700 | 75.0 | 0.69 | 20.5 | 1.8 | 2.0 | 5.0 | 57 |
| E2AD 132S-8 | 2.2 | 3.0 | 6.04 | 5.73 | 5.53 | 710 | 78.0 | 0.71 | 29.6 | 1.8 | 2.0 | 6.0 | 83 |
| E2AD 132M-8 | 3 | 4.0 | 7.90 | 7.51 | 7.24 | 710 | 79.0 | 0.73 | 40.4 | 1.8 | 2.0 | 6.0 | 95 |
| E2AD 160M1-8 | 4 | 5.5 | 10.3 | 9.8 | 9.4 | 720 | 81.0 | 0.73 | 53.1 | 1.9 | 2.0 | 6.0 | 158 |
| E2AD 160M2-8 | 5.5 | 7.5 | 13.6 | 12.9 | 12.5 | 720 | 83.0 | 0.74 | 73.0 | 2.0 | 2.0 | 6.0 | 180 |
| E2AD 160L-8 | 7.5 | 10 | 17.8 | 16.9 | 16.3 | 720 | 85.5 | 0.75 | 99.5 | 2.0 | 2.0 | 6.0 | 181 |
| E2AD 180L-8 | 11 | 15 | 25.1 | 23.9 | 23.0 | 730 | 87.5 | 0.76 | 144 | 2.0 | 2.0 | 6.6 | 228 |
| E2AD 200L-8 | 15 | 20 | 34.1 | 32.4 | 31.2 | 730 | 88.0 | 0.76 | 196 | 2.0 | 2.0 | 6.6 | 335 |
| E2AD 225S-8 | 18.5 | 25 | 41.1 | 39.0 | 37.6 | 730 | 90.0 | 0.76 | 242 | 1.9 | 2.0 | 6.6 | 371 |
| E2AD 225M-8 | 22 | 30 | 47.4 | 45.0 | 43.3 | 730 | 90.5 | 0.78 | 288 | 1.9 | 2.0 | 6.6 | 398 |
| E2AD 250M-8 | 30 | 40 | 63.4 | 60.2 | 58.1 | 735 | 91.0 | 0.79 | 390 | 1.9 | 2.0 | 6.6 | 522 |
| E2AD 280S-8 | 37 | 50 | 77.8 | 73.9 | 71.2 | 735 | 91.5 | 0.79 | 481 | 1.9 | 2.0 | 6.6 | 626 |
| E2AD 280M-8 | 45 | 60 | 94.1 | 89.4 | 86.1 | 735 | 92.0 | 0.79 | 585 | 1.9 | 2.0 | 6.6 | 722 |
| E2AD 315S-8 | 55 | 75 | 111 | 106 | 102 | 735 | 92.8 | 0.81 | 715 | 1.8 | 2.0 | 6.6 | 955 |
| E2AD 315M-8 | 75 | 100 | 151 | 144 | 139 | 735 | 93.0 | 0.81 | 975 | 1.8 | 2.0 | 6.6 | 1160 |
| E2AD 315L1-8 | 90 | 120 | 178 | 169 | 163 | 740 | 93.8 | 0.82 | 1162 | 1.8 | 2.0 | 6.6 | 1238 |
| E2AD 315L2-8 | 110 | 150 | 217 | 206 | 199 | 740 | 94.0 | 0.82 | 1420 | 1.8 | 2.0 | 6.4 | 1362 |
| E2AD 355S-8 | 132 | 180 | 261 | 248 | 239 | 740 | 94.0 | 0.82 | 1704 | 1.8 | 2.0 | 6.4 | 1620 |
| E2AD 355M-8 | 160 | 220 | 315 | 299 | 288 | 740 | 94.2 | 0.82 | 2065 | 1.8 | 2.0 | 6.4 | 1710 |
| E2AD 355L1-8 | 185 | 250 | 362 | 344 | 332 | 740 | 94.5 | 0.82 | 2388 | 1.8 | 2.0 | 6.4 | 1900 |
| E2AD 355L2-8 | 200 | 270 | 387 | 368 | 355 | 740 | 94.5 | 0.82 | 2581 | 1.8 | 2.0 | 6.4 | 2000 |

PERFORMANCE DATA IE3

| FRAME | Output Power | | Full load Current (A) | | | Speed r/min | Eff % | Power Factory φ | Torque | | | Current | Weight |
|---------------------------|--------------|-----|-----------------------|------|------|----------------|-------|-----------------------|----------------------|---------------------------|--------------------------|---------------------------|--------|
| | KW | HP | 380V | 400V | 415V | | | | Full Load (Nm) | Locked rotor Tst/Tn | Max torque Tmax/TN | Locked rotor Ist/In | Kg |
| 3000 RPM = 2 POLES | | | | | | | | | | | | | |
| E3AD 80M1-2 | 0.75 | 1.0 | 1.8 | 1.7 | 1.6 | 2880 | 80.7 | 0.83 | 2.5 | 2.2 | 2.3 | 6.0 | 26 |
| E3AD 80M2-2 | 1.1 | 1.5 | 2.4 | 2.3 | 2.2 | 2880 | 82.7 | 0.84 | 3.7 | 2.2 | 2.3 | 6.0 | 30 |
| E3AD 90S-2 | 1.5 | 2.0 | 3.2 | 3.1 | 3.0 | 2890 | 84.2 | 0.84 | 5.0 | 2.2 | 2.3 | 7.0 | 38 |
| E3AD 90L-2 | 2.2 | 3.0 | 4.6 | 4.4 | 4.2 | 2890 | 85.9 | 0.85 | 7.4 | 2.2 | 2.3 | 7.0 | 40 |
| E3AD 100L-2 | 3 | 4.0 | 5.9 | 5.6 | 5.4 | 2895 | 87.1 | 0.87 | 10.0 | 2.2 | 2.3 | 7.0 | 54 |
| E3AD 112M-2 | 4 | 5.5 | 7.8 | 7.5 | 7.2 | 2905 | 88.1 | 0.88 | 13.3 | 2.2 | 2.3 | 7.0 | 72 |
| E3AD 132S 1-2 | 5.5 | 7.5 | 10.6 | 10.1 | 9.8 | 2930 | 89.2 | 0.88 | 18.1 | 2.2 | 2.3 | 7.5 | 92 |
| E3AD 132S2-2 | 7.5 | 10 | 14.4 | 13.7 | 13.2 | 2930 | 90.1 | 0.88 | 24.7 | 2.2 | 2.4 | 7.5 | 99 |
| E3AD 160M 1-2 | 11 | 15 | 20.4 | 19.3 | 18.6 | 2930 | 91.2 | 0.89 | 35.9 | 2.2 | 2.4 | 7.5 | 145 |
| E3AD 160M2-2 | 15 | 20 | 27.9 | 26.5 | 25.6 | 2940 | 91.9 | 0.89 | 48.9 | 2.2 | 2.4 | 7.5 | 154 |
| E3AD 160L-2 | 18.5 | 25 | 34.1 | 32.4 | 31.3 | 2940 | 92.4 | 0.89 | 60.3 | 2.2 | 2.4 | 7.5 | 165 |
| E3AD 180M-2 | 22 | 30 | 40.1 | 38.1 | 36.7 | 2945 | 92.7 | 0.88 | 71.5 | 2.0 | 2.3 | 7.5 | 260 |
| E3AD 200L 1-2 | 30 | 40 | 55.5 | 52.7 | 50.8 | 2950 | 93.3 | 0.88 | 97.1 | 2.0 | 2.4 | 7.5 | 297 |
| E3AD 200L2-2 | 37 | 50 | 65.9 | 62.6 | 60.3 | 2960 | 93.7 | 0.89 | 120 | 2.0 | 2.4 | 7.5 | 323 |
| E3AD 225M-2 | 45 | 60 | 82.5 | 78.4 | 75.5 | 2960 | 94.0 | 0.89 | 145 | 2.0 | 2.3 | 7.5 | 457 |
| E3AD 250M-2 | 55 | 75 | 98.5 | 93.5 | 90.2 | 2970 | 94.3 | 0.90 | 177 | 2.1 | 2.3 | 7.5 | 518 |
| E3AD 280S-2 | 75 | 100 | 134 | 127 | 122 | 2975 | 94.7 | 0.90 | 241 | 2.0 | 2.3 | 7.5 | 693 |
| E3AD 280M-2 | 90 | 120 | 162 | 153 | 148 | 2975 | 95.0 | 0.91 | 289 | 2.1 | 2.3 | 7.5 | 756 |
| E3AD 315S-2 | 110 | 150 | 195 | 185 | 179 | 2978 | 95.2 | 0.91 | 353 | 1.8 | 2.3 | 7.0 | 1174 |
| E3AD 315M-2 | 132 | 180 | 231 | 219 | 212 | 2978 | 95.4 | 0.91 | 424 | 1.8 | 2.3 | 7.0 | 1328 |
| E3AD 315L 1-2 | 160 | 220 | 283 | 268 | 259 | 2980 | 95.6 | 0.92 | 514 | 1.8 | 2.3 | 7.0 | 1371 |
| E3AD 315L2-2 | 200 | 270 | 345 | 328 | 316 | 2980 | 95.8 | 0.92 | 642 | 1.8 | 2.3 | 7.0 | 1446 |
| E3AD 355M 1-2 | 220 | 300 | 379 | 360 | 347 | 2985 | 95.8 | 0.92 | 704 | 1.6 | 2.4 | 7.0 | 1705 |
| E3AD 355M2-2 | 250 | 340 | 431 | 409 | 394 | 2982 | 95.8 | 0.92 | 801 | 1.6 | 2.4 | 7.0 | 1705 |
| E3AD 355L 1-2 | 280 | 380 | 483 | 459 | 442 | 2985 | 95.8 | 0.92 | 896 | 1.6 | 2.4 | 7.0 | 1915 |
| E3AD 355L2-2 | 315 | 430 | 543 | 516 | 497 | 2982 | 95.8 | 0.92 | 1010 | 1.6 | 2.4 | 7.0 | 2068 |

PERFORMANCE DATA IE3

PERFORMANCE DATA IE3

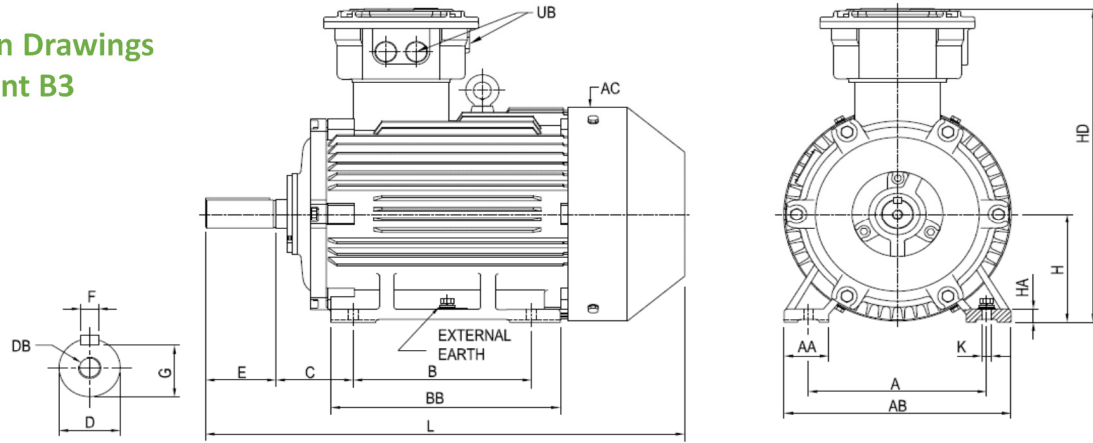
| FRAME | Output Power | | Full load Current (A) | | | Speed r/min | Eff % | Power Factory φ | Torque | | | Current | Weight |
|---------------------------|--------------|-----|-----------------------|------|------|----------------|-------|-----------------------|----------------------|---------------------------|--------------------------|---------------------------|--------|
| | KW | HP | 380V | 400V | 415V | | | | Full Load (Nm) | Locked rotor Tst/Tn | Max torque Tmax/TN | Locked rotor Ist/In | Kg |
| 1500 RPM = 4 POLES | | | | | | | | | | | | | |
| E3AD 80M2-4 | 0.75 | 1.0 | 1.9 | 1.8 | 1.7 | 1420 | 82.5 | 0.74 | 5.0 | 2.3 | 2.3 | 6.0 | 29 |
| E3AD 90S-4 | 1.1 | 1.5 | 2.7 | 2.6 | 2.5 | 1440 | 84.1 | 0.74 | 7.3 | 2.3 | 2.3 | 6.0 | 37 |
| E3AD 90L-4 | 1.5 | 2.0 | 3.6 | 3.4 | 3.3 | 1445 | 85.3 | 0.74 | 9.9 | 2.3 | 2.3 | 6.0 | 38 |
| E3AD 100L 1-4 | 2.2 | 3.0 | 4.9 | 4.7 | 4.5 | 1440 | 86.7 | 0.78 | 14.6 | 2.3 | 2.3 | 7.0 | 56 |
| E3AD 100L2-4 | 3 | 4.0 | 6.6 | 6.3 | 6.0 | 1440 | 87.7 | 0.78 | 20.2 | 2.3 | 2.3 | 7.0 | 60 |
| E3AD 112M-4 | 4 | 5.5 | 8.6 | 8.1 | 7.8 | 1445 | 88.6 | 0.80 | 26.5 | 2.3 | 2.3 | 7.0 | 78 |
| E3AD 132S-4 | 5.5 | 7.5 | 11.6 | 11.1 | 10.7 | 1460 | 89.6 | 0.80 | 36.0 | 2.3 | 2.3 | 7.0 | 99 |
| E3AD 132M-4 | 7.5 | 10 | 15.3 | 14.6 | 14.0 | 1460 | 90.4 | 0.82 | 49.1 | 2.3 | 2.3 | 7.0 | 110 |
| E3AD 160M-4 | 11 | 15 | 22.3 | 21.2 | 20.4 | 1460 | 91.4 | 0.82 | 71.7 | 2.2 | 2.3 | 7.0 | 150 |
| E3AD 160L-4 | 15 | 20 | 30.1 | 28.6 | 27.6 | 1465 | 92.1 | 0.82 | 97.8 | 2.2 | 2.3 | 7.5 | 162 |
| E3AD 180M-4 | 18.5 | 25 | 36.1 | 34.3 | 33.1 | 1470 | 92.6 | 0.84 | 120 | 2.2 | 2.3 | 7.5 | 253 |
| E3AD 180L-4 | 22 | 30 | 42.3 | 40.2 | 38.7 | 1470 | 93.0 | 0.85 | 143 | 2.2 | 2.3 | 7.5 | 275 |
| E3AD 200L-4 | 30 | 40 | 56.5 | 53.7 | 51.7 | 1470 | 93.6 | 0.86 | 194 | 2.2 | 2.3 | 7.2 | 309 |
| E3AD 225S-4 | 37 | 50 | 69.5 | 66.1 | 63.7 | 1480 | 93.9 | 0.86 | 238 | 2.2 | 2.3 | 7.2 | 390 |
| E3AD 225M-4 | 45 | 60 | 83.2 | 79.1 | 76.2 | 1480 | 94.2 | 0.87 | 289 | 2.2 | 2.3 | 7.2 | 422 |
| E3AD 250M-4 | 55 | 75 | 101 | 96.2 | 92.7 | 1480 | 94.6 | 0.87 | 354 | 2.2 | 2.3 | 7.2 | 536 |
| E3AD 280S-4 | 75 | 100 | 138 | 131 | 126 | 1480 | 95.0 | 0.87 | 483 | 2.2 | 2.3 | 7.2 | 777 |
| E3AD 280M-4 | 90 | 120 | 165 | 157 | 151 | 1480 | 95.2 | 0.87 | 578 | 2.2 | 2.3 | 7.2 | 885 |
| E3AD 315S-4 | 110 | 150 | 199 | 189 | 182 | 1485 | 95.4 | 0.87 | 706 | 2.1 | 2.2 | 6.9 | 1195 |
| E3AD 315M-4 | 132 | 180 | 238 | 226 | 218 | 1485 | 95.6 | 0.88 | 847 | 2.1 | 2.2 | 6.9 | 1324 |
| E3AD 315L 1-4 | 160 | 220 | 288 | 274 | 264 | 1485 | 95.8 | 0.88 | 1027 | 2.1 | 2.2 | 6.9 | 1397 |
| E3AD 315L2 -4 | 200 | 270 | 360 | 342 | 329 | 1485 | 96.0 | 0.88 | 1282 | 2.1 | 2.2 | 6.9 | 1507 |
| E3AD 355M1-4 | 220 | 300 | 387 | 368 | 354 | 1490 | 96.0 | 0.90 | 1410 | 2.1 | 2.2 | 6.9 | 1804 |
| E3AD 355M2-4 | 250 | 340 | 449 | 427 | 411 | 1490 | 96.0 | 0.88 | 1602 | 2.1 | 2.2 | 6.9 | 1865 |
| E3AD 355L 1-4 | 280 | 380 | 495 | 470 | 453 | 1490 | 96.0 | 0.90 | 1795 | 2.1 | 2.2 | 6.9 | 2061 |
| E3AD 355L2 -4 | 315 | 430 | 567 | 538 | 519 | 1490 | 96.0 | 0.88 | 2019 | 2.1 | 2.2 | 6.9 | 2174 |

PERFORMANCE DATA IE3

PERFORMANCE DATA IE3

| FRAME | Output Power | | Full load Current (A) | | | Speed r/min | Eff % | Power Factory φ | Torque | | | Current | Weight |
|---------------------------|--------------|-----|-----------------------|------|------|----------------|-------|-----------------------|----------------------|---------------------------|--------------------------|---------------------------|--------|
| | KW | HP | 380V | 400V | 415V | | | | Full Load (Nm) | Locked rotor Tst/Tn | Max torque Tmax/TN | Locked rotor Ist/In | Kg |
| 1000 RPM = 6 POLES | | | | | | | | | | | | | |
| E3AD 90S-6 | 0.75 | 1.0 | 2.4 | 2.3 | 2.2 | 935 | 78.9 | 0.61 | 7.7 | 2.1 | 2.1 | 5.5 | 35 |
| E3AD 90L-6 | 1.1 | 1.5 | 3.0 | 2.8 | 2.7 | 945 | 81.0 | 0.69 | 11.1 | 2.1 | 2.1 | 5.5 | 37 |
| E3AD 100L-6 | 1.5 | 2.0 | 4.0 | 3.8 | 3.7 | 950 | 82.5 | 0.69 | 15.2 | 2.1 | 2.1 | 5.5 | 55 |
| E3AD 112M-6 | 2.2 | 3.0 | 5.6 | 5.3 | 5.1 | 955 | 84.3 | 0.71 | 22.0 | 2.1 | 2.1 | 6.5 | 67 |
| E3AD 132S-6 | 3 | 4.0 | 7.5 | 7.1 | 6.8 | 965 | 85.6 | 0.71 | 29.6 | 2.1 | 2.1 | 6.5 | 88 |
| E3AD 132M1-6 | 4 | 5.5 | 9.8 | 9.4 | 9.0 | 965 | 86.8 | 0.71 | 39.5 | 2.0 | 2.1 | 6.5 | 95 |
| E3AD 132M2-6 | 5.5 | 7.5 | 12.6 | 12.0 | 11.6 | 970 | 88.0 | 0.75 | 54.3 | 2.0 | 2.1 | 6.5 | 104 |
| E3AD 160M-6 | 7.5 | 10 | 16.6 | 15.7 | 15.2 | 970 | 89.1 | 0.77 | 73.8 | 2.0 | 2.1 | 6.5 | 140 |
| E3AD 160L-6 | 11 | 15 | 23.4 | 22.2 | 21.4 | 978 | 90.3 | 0.79 | 108 | 2.1 | 2.1 | 6.5 | 165 |
| E3AD 180L-6 | 15 | 20 | 30.8 | 29.3 | 28.2 | 980 | 91.2 | 0.81 | 147 | 2.1 | 2.1 | 7.0 | 236 |
| E3AD 200L1-6 | 18.5 | 25 | 37.8 | 35.9 | 34.6 | 980 | 91.7 | 0.81 | 180 | 2.1 | 2.1 | 7.0 | 259 |
| E3AD 200L2-6 | 22 | 30 | 43.6 | 41.4 | 40.0 | 985 | 92.2 | 0.83 | 214 | 2.1 | 2.1 | 7.0 | 302 |
| E3AD 225M-6 | 30 | 40 | 58.3 | 55.4 | 53.4 | 985 | 92.9 | 0.84 | 292 | 2.0 | 2.1 | 7.0 | 390 |
| E3AD 250M-6 | 37 | 50 | 71.7 | 68.1 | 65.7 | 985 | 93.3 | 0.84 | 359 | 2.1 | 2.1 | 7.0 | 510 |
| E3AD 280S-6 | 45 | 60 | 85.8 | 81.5 | 78.5 | 985 | 93.7 | 0.85 | 436 | 2.1 | 2.0 | 7.0 | 709 |
| E3AD 280M-6 | 55 | 75 | 104 | 99.1 | 95.6 | 988 | 94.1 | 0.85 | 533 | 2.1 | 2.0 | 7.0 | 786 |
| E3AD 315S-6 | 75 | 100 | 142 | 135 | 130 | 988 | 94.6 | 0.85 | 727 | 2.0 | 2.0 | 7.0 | 1155 |
| E3AD 315M-6 | 90 | 120 | 169 | 161 | 155 | 988 | 94.9 | 0.85 | 869 | 2.0 | 2.0 | 7.0 | 1277 |
| E3AD 315L 1-6 | 110 | 150 | 204 | 194 | 187 | 988 | 95.1 | 0.86 | 1063 | 2.0 | 2.0 | 6.7 | 1375 |
| E3AD 315L2-6 | 132 | 180 | 244 | 232 | 224 | 988 | 95.4 | 0.86 | 1276 | 2.0 | 2.0 | 6.7 | 1467 |
| E3AD 355M 1-6 | 160 | 220 | 296 | 281 | 271 | 990 | 95.6 | 0.87 | 1543 | 2.0 | 2.0 | 6.7 | 1815 |
| E3AD 355M2-6 | 185 | 250 | 339 | 317 | 306 | 990 | 95.7 | 0.88 | 1785 | 1.9 | 2.0 | 6.7 | 1866 |
| E3AD 355M3-6 | 200 | 270 | 360 | 342 | 330 | 990 | 95.8 | 0.88 | 1929 | 2.0 | 2.0 | 6.7 | 1900 |
| E3AD 355L 1-6 | 220 | 300 | 396 | 377 | 363 | 990 | 95.8 | 0.88 | 2122 | 1.9 | 2.0 | 6.7 | 2070 |
| E3AD 355L2-6 | 250 | 340 | 451 | 428 | 413 | 990 | 95.8 | 0.88 | 2412 | 2.0 | 2.0 | 6.7 | 2180 |

Dimension Drawings
Foot Mount B3

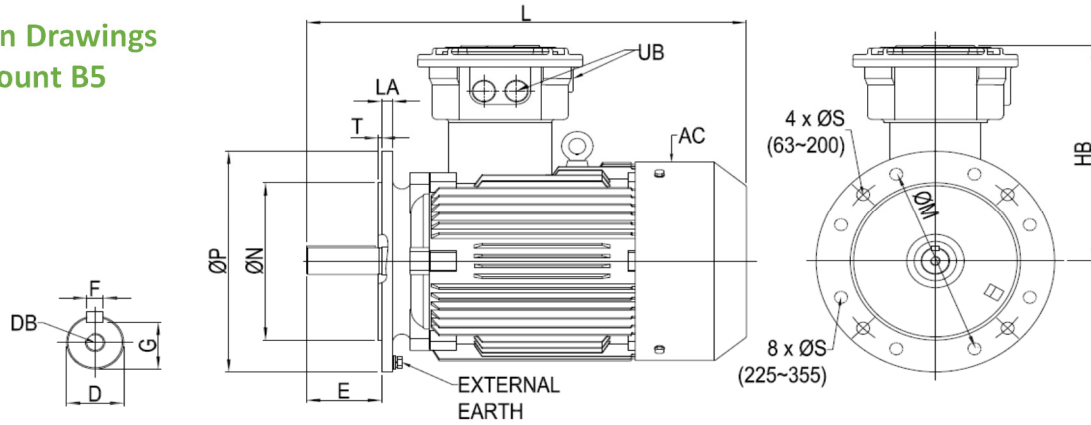


DIMENSION DRAWING B3

| FRAME | A | B | C | D | DB | E | F | G | H | K | AA | AB | AC | BB | UB | HA | HD | L |
|-------|-----|-----|-----|----|-----|-----|----|------|-----|----|-----|-----|-----|-----|-------------|----|------|------|
| 63M | 100 | 80 | 40 | 11 | M4 | 23 | 4 | 8.5 | 63 | 7 | 23 | 125 | 125 | 105 | 2xM25,1xM20 | 6 | 240 | 245 |
| 71M | 112 | 90 | 45 | 14 | M5 | 30 | 5 | 11 | 71 | 7 | 28 | 140 | 143 | 114 | 2xM25,1xM20 | 7 | 270 | 270 |
| 80M | 125 | 100 | 50 | 19 | M6 | 40 | 6 | 15.5 | 80 | 10 | 34 | 165 | 165 | 130 | 2xM25,1xM20 | 10 | 320 | 330 |
| 90S | 140 | 100 | 56 | 24 | M8 | 50 | 8 | 20 | 90 | 10 | 36 | 180 | 180 | 130 | 2xM25,1xM20 | 14 | 350 | 360 |
| 90L | 140 | 125 | 56 | 24 | M8 | 50 | 8 | 20 | 90 | 10 | 36 | 180 | 180 | 155 | 2xM25,1xM20 | 14 | 350 | 385 |
| 100L | 160 | 140 | 63 | 28 | M10 | 60 | 8 | 24 | 100 | 12 | 39 | 200 | 205 | 176 | 2xM25,1xM20 | 15 | 400 | 440 |
| 112M | 190 | 140 | 70 | 28 | M10 | 60 | 8 | 24 | 112 | 12 | 50 | 245 | 230 | 180 | 2xM32,1xM20 | 16 | 420 | 460 |
| 132S | 216 | 140 | 89 | 38 | M12 | 80 | 10 | 33 | 132 | 12 | 60 | 280 | 270 | 190 | 2xM32,1xM20 | 18 | 450 | 510 |
| 132M | 216 | 178 | 89 | 38 | M12 | 80 | 10 | 33 | 132 | 12 | 60 | 280 | 270 | 230 | 2xM32,1xM20 | 18 | 450 | 550 |
| 160M | 254 | 210 | 108 | 42 | M16 | 110 | 12 | 37 | 160 | 15 | 70 | 330 | 325 | 252 | 2xM32,1xM20 | 20 | 520 | 670 |
| 160L | 254 | 254 | 108 | 42 | M16 | 110 | 12 | 37 | 160 | 15 | 70 | 330 | 325 | 302 | 2xM32,1xM20 | 20 | 520 | 710 |
| 180M | 279 | 241 | 121 | 48 | M16 | 110 | 14 | 42.5 | 180 | 15 | 70 | 355 | 360 | 311 | 2xM32,1xM20 | 22 | 550 | 730 |
| 180L | 279 | 279 | 121 | 48 | M16 | 110 | 14 | 42.5 | 180 | 15 | 70 | 355 | 360 | 349 | 2xM32,1xM20 | 22 | 550 | 750 |
| 200L | 318 | 305 | 133 | 55 | M20 | 110 | 16 | 49 | 200 | 19 | 70 | 390 | 400 | 366 | 1xM50,1xM20 | 25 | 645 | 805 |
| 225S | 356 | 286 | 149 | 60 | M20 | 140 | 18 | 53 | 225 | 19 | 75 | 435 | 450 | 355 | 1xM50,1xM20 | 28 | 690 | 865 |
| 225M* | 356 | 311 | 149 | 55 | M20 | 110 | 16 | 49 | 225 | 19 | 75 | 435 | 450 | 380 | 1xM50,1xM20 | 28 | 690 | 860 |
| 225M | 356 | 311 | 149 | 60 | M20 | 140 | 18 | 53 | 225 | 19 | 75 | 435 | 450 | 380 | 1xM50,1xM20 | 28 | 690 | 890 |
| 250M* | 406 | 349 | 168 | 60 | M20 | 140 | 18 | 53 | 250 | 24 | 75 | 490 | 500 | 420 | 1xM63,1xM20 | 30 | 730 | 945 |
| 250M | 406 | 349 | 168 | 65 | M20 | 140 | 18 | 58 | 250 | 24 | 80 | 490 | 500 | 420 | 1xM63,1xM20 | 30 | 730 | 945 |
| 280S* | 457 | 368 | 190 | 65 | M20 | 140 | 18 | 58 | 280 | 24 | 90 | 545 | 560 | 438 | 1xM63,1xM20 | 35 | 810 | 1010 |
| 280S | 457 | 368 | 190 | 75 | M20 | 140 | 20 | 67.5 | 280 | 24 | 90 | 545 | 560 | 438 | 1xM63,1xM20 | 35 | 810 | 1010 |
| 280M* | 457 | 419 | 190 | 65 | M20 | 140 | 18 | 58 | 280 | 24 | 90 | 545 | 560 | 493 | 1xM63,1xM20 | 35 | 810 | 1060 |
| 280M | 457 | 419 | 190 | 75 | M20 | 140 | 20 | 67.5 | 280 | 24 | 90 | 545 | 560 | 493 | 1xM63,1xM20 | 35 | 810 | 1060 |
| 315S* | 508 | 406 | 216 | 65 | M20 | 140 | 18 | 58 | 315 | 28 | 120 | 640 | 630 | 550 | 2xM63,1xM20 | 45 | 1020 | 1320 |
| 315S | 508 | 406 | 216 | 80 | M20 | 170 | 22 | 71 | 315 | 28 | 120 | 640 | 630 | 550 | 2xM63,1xM20 | 45 | 1020 | 1350 |
| 315M* | 508 | 457 | 216 | 65 | M20 | 140 | 18 | 58 | 315 | 28 | 120 | 640 | 630 | 680 | 2xM63,1xM20 | 45 | 1020 | 1350 |
| 315M | 508 | 457 | 216 | 80 | M20 | 170 | 22 | 71 | 315 | 28 | 120 | 640 | 630 | 680 | 2xM63,1xM20 | 45 | 1020 | 1380 |
| 315L* | 508 | 508 | 216 | 65 | M20 | 140 | 18 | 58 | 315 | 28 | 120 | 640 | 630 | 680 | 2xM63,1xM20 | 45 | 1020 | 1490 |
| 315L | 508 | 508 | 216 | 80 | M20 | 170 | 22 | 71 | 315 | 28 | 120 | 640 | 630 | 680 | 2xM63,1xM20 | 45 | 1020 | 1520 |
| 355S* | 610 | 500 | 254 | 75 | M20 | 140 | 20 | 67.5 | 355 | 28 | 120 | 740 | 750 | 636 | 2xM63,1xM20 | 52 | 1080 | 1570 |
| 355S* | 610 | 500 | 254 | 95 | M20 | 170 | 25 | 86 | 355 | 28 | 120 | 740 | 750 | 636 | 2xM63,1xM20 | 52 | 1080 | 1570 |
| 355M* | 610 | 560 | 254 | 75 | M20 | 140 | 20 | 67.5 | 355 | 28 | 120 | 740 | 750 | 696 | 2xM63,1xM20 | 52 | 1080 | 1650 |
| 355M | 610 | 560 | 254 | 95 | M20 | 170 | 25 | 86 | 355 | 28 | 120 | 740 | 750 | 696 | 2xM63,1xM20 | 52 | 1080 | 1650 |
| 355L* | 610 | 630 | 254 | 75 | M20 | 140 | 20 | 67.5 | 355 | 28 | 120 | 740 | 750 | 766 | 2xM63,1xM20 | 52 | 1080 | 1750 |
| 355L | 610 | 630 | 254 | 95 | M20 | 170 | 25 | 86 | 355 | 28 | 120 | 740 | 750 | 766 | 2xM63,1xM20 | 52 | 1080 | 1750 |

* FOR 2 POLE MOTOR ONLY

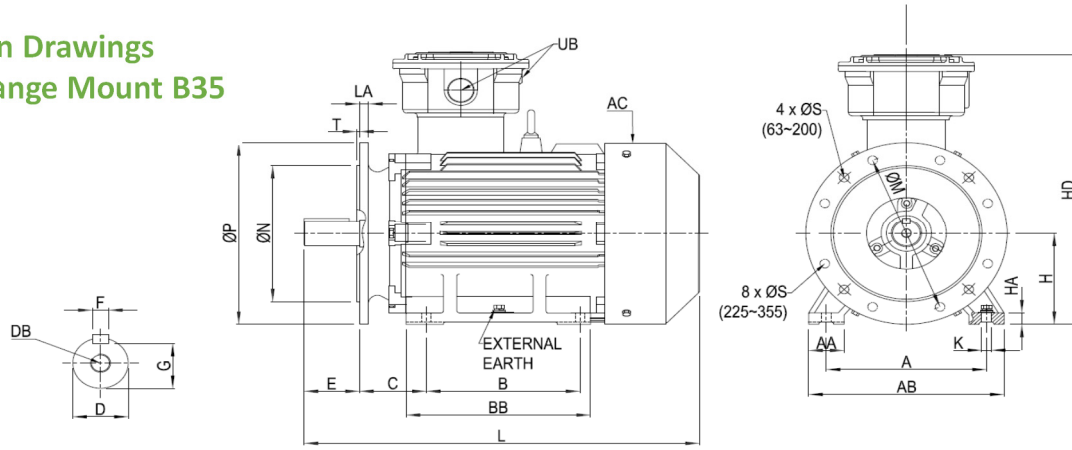
Dimension Drawings
Flange Mount B5



| FRAME | D | DB | E | F | G | M | N | P | S | T | AC | UB | HB | LA | L |
|-------|----|-----|-----|----|------|-----|-----|-----|----|-----|-----|-------------|-----|-----|------|
| 63M | 11 | M4 | 23 | 4 | 8.5 | 115 | 95 | 140 | 10 | 3 | 125 | 2xM25,1xM20 | 177 | 6.5 | 245 |
| 71M | 14 | M5 | 30 | 5 | 11 | 130 | 110 | 160 | 10 | 3.5 | 143 | 2xM25,1xM20 | 199 | 6.5 | 270 |
| 80M | 19 | M6 | 40 | 6 | 15.5 | 165 | 130 | 200 | 12 | 3.5 | 165 | 2xM25,1xM20 | 240 | 12 | 330 |
| 90S | 24 | M8 | 50 | 8 | 20 | 165 | 130 | 200 | 12 | 3.5 | 180 | 2xM25,1xM20 | 260 | 12 | 360 |
| 90L | 24 | M8 | 50 | 8 | 20 | 165 | 130 | 200 | 12 | 3.5 | 180 | 2xM25,1xM20 | 260 | 12 | 385 |
| 100L | 28 | M10 | 60 | 8 | 24 | 215 | 180 | 250 | 15 | 4 | 205 | 2xM25,1xM20 | 300 | 14 | 440 |
| 112M | 28 | M10 | 60 | 8 | 24 | 215 | 180 | 250 | 15 | 4 | 230 | 2xM32,1xM20 | 308 | 14 | 460 |
| 132S | 38 | M12 | 80 | 10 | 33 | 265 | 230 | 300 | 15 | 4 | 270 | 2xM32,1xM20 | 318 | 14 | 510 |
| 132M | 38 | M12 | 80 | 10 | 33 | 265 | 230 | 300 | 15 | 4 | 270 | 2xM32,1xM20 | 318 | 14 | 550 |
| 160M | 42 | M16 | 110 | 12 | 37 | 300 | 250 | 350 | 19 | 5 | 325 | 2xM32,1xM20 | 360 | 16 | 670 |
| 160L | 42 | M16 | 110 | 12 | 37 | 300 | 250 | 350 | 19 | 5 | 325 | 2xM32,1xM20 | 360 | 16 | 710 |
| 180M | 48 | M16 | 110 | 14 | 42.5 | 300 | 250 | 350 | 19 | 5 | 360 | 2xM32,1xM20 | 370 | 18 | 730 |
| 180L | 48 | M16 | 110 | 14 | 42.5 | 300 | 250 | 350 | 19 | 5 | 360 | 2xM32,1xM20 | 370 | 18 | 750 |
| 200L | 55 | M20 | 110 | 16 | 49 | 350 | 300 | 400 | 19 | 5 | 400 | 1xM50,1xM20 | 445 | 18 | 805 |
| 225S | 60 | M20 | 140 | 18 | 53 | 400 | 350 | 450 | 19 | 5 | 450 | 1xM50,1xM20 | 465 | 20 | 865 |
| 225M* | 55 | M20 | 110 | 16 | 49 | 400 | 350 | 450 | 19 | 5 | 450 | 1xM50,1xM20 | 465 | 20 | 860 |
| 225M | 60 | M20 | 140 | 18 | 53 | 400 | 350 | 450 | 19 | 5 | 450 | 1xM50,1xM20 | 465 | 20 | 890 |
| 250M* | 60 | M20 | 140 | 18 | 53 | 500 | 450 | 550 | 19 | 5 | 500 | 1xM63,1xM20 | 480 | 22 | 945 |
| 250M | 65 | M20 | 140 | 18 | 58 | 500 | 450 | 550 | 19 | 5 | 500 | 1xM63,1xM20 | 480 | 22 | 945 |
| 280S* | 65 | M20 | 140 | 18 | 58 | 500 | 450 | 550 | 19 | 5 | 560 | 1xM63,1xM20 | 530 | 22 | 1010 |
| 280S | 75 | M20 | 140 | 20 | 67.5 | 500 | 450 | 550 | 19 | 5 | 560 | 1xM63,1xM20 | 530 | 22 | 1010 |
| 280M* | 65 | M20 | 140 | 18 | 58 | 500 | 450 | 550 | 19 | 5 | 560 | 1xM63,1xM20 | 530 | 22 | 1060 |
| 280M | 75 | M20 | 140 | 20 | 67.5 | 500 | 450 | 550 | 19 | 5 | 560 | 1xM63,1xM20 | 530 | 22 | 1060 |
| 315S* | 65 | M20 | 140 | 18 | 58 | 600 | 550 | 660 | 24 | 6 | 630 | 2xM63,1xM20 | 705 | 25 | 1320 |
| 315S | 80 | M20 | 170 | 22 | 71 | 600 | 550 | 660 | 24 | 6 | 630 | 2xM63,1xM20 | 705 | 25 | 1350 |
| 315M* | 65 | M20 | 140 | 18 | 58 | 600 | 550 | 660 | 24 | 6 | 630 | 2xM63,1xM20 | 705 | 25 | 1350 |
| 315M | 80 | M20 | 170 | 22 | 71 | 600 | 550 | 660 | 24 | 6 | 630 | 2xM63,1xM20 | 705 | 25 | 1380 |
| 315L* | 65 | M20 | 140 | 18 | 58 | 600 | 550 | 660 | 24 | 6 | 630 | 2xM63,1xM20 | 705 | 25 | 1490 |
| 315L | 80 | M20 | 170 | 22 | 71 | 600 | 550 | 660 | 24 | 6 | 630 | 2xM63,1xM20 | 705 | 25 | 1520 |
| 355S* | 75 | M20 | 140 | 20 | 67.5 | 740 | 680 | 800 | 24 | 6 | 750 | 2xM63,1xM20 | 725 | 25 | 1570 |
| 355S* | 95 | M20 | 170 | 25 | 86 | 740 | 680 | 800 | 24 | 6 | 750 | 2xM63,1xM20 | 725 | 25 | 1570 |
| 355M* | 75 | M20 | 140 | 20 | 67.5 | 740 | 680 | 800 | 24 | 6 | 750 | 2xM63,1xM20 | 725 | 25 | 1650 |
| 355M | 95 | M20 | 170 | 25 | 86 | 740 | 680 | 800 | 24 | 6 | 750 | 2xM63,1xM20 | 725 | 25 | 1650 |
| 355L* | 75 | M20 | 140 | 20 | 67.5 | 740 | 680 | 800 | 24 | 6 | 750 | 2xM63,1xM20 | 725 | 25 | 1750 |
| 355L | 95 | M20 | 170 | 25 | 86 | 740 | 680 | 800 | 24 | 6 | 750 | 2xM63,1xM20 | 725 | 25 | 1750 |

* FOR 2 POLE MOTOR ONLY

Dimension Drawings
Foot & Flange Mount B35



DIMENSION DRAWING B35

| FRAME | A | B | C | D | DB | E | F | G | H | K | AA | AB | M | N | P | S | T | AC | BB | UB | HA | HD | LA | L |
|-------|-----|-----|-----|----|-----|-----|----|------|-----|----|-----|-----|-----|-----|-----|----|-----|-----|-----|-------------|----|------|-----|------|
| 63M | 100 | 80 | 40 | 11 | M4 | 23 | 4 | 8.5 | 63 | 7 | 23 | 125 | 115 | 95 | 140 | 10 | 3 | 125 | 105 | 2xM25,1xM20 | 6 | 240 | 6.5 | 245 |
| 71M | 112 | 90 | 45 | 14 | M5 | 30 | 5 | 11 | 71 | 7 | 28 | 140 | 130 | 110 | 160 | 10 | 3.5 | 143 | 114 | 2xM25,1xM20 | 7 | 270 | 6.5 | 270 |
| 80M | 125 | 100 | 50 | 19 | M6 | 40 | 6 | 15.5 | 80 | 10 | 34 | 165 | 165 | 130 | 200 | 12 | 3.5 | 165 | 130 | 2xM25,1xM20 | 10 | 320 | 12 | 330 |
| 90S | 140 | 100 | 56 | 24 | M8 | 50 | 8 | 20 | 90 | 10 | 36 | 180 | 165 | 130 | 200 | 12 | 3.5 | 180 | 130 | 2xM25,1xM20 | 14 | 350 | 12 | 360 |
| 90L | 140 | 125 | 56 | 24 | M8 | 50 | 8 | 20 | 90 | 10 | 36 | 180 | 165 | 130 | 200 | 12 | 3.5 | 180 | 155 | 2xM25,1xM20 | 14 | 350 | 12 | 385 |
| 100L | 160 | 140 | 63 | 28 | M10 | 60 | 8 | 24 | 100 | 12 | 39 | 200 | 215 | 180 | 250 | 15 | 4 | 205 | 176 | 2xM25,1xM20 | 15 | 400 | 14 | 440 |
| 112M | 190 | 140 | 70 | 28 | M10 | 60 | 8 | 24 | 112 | 12 | 50 | 245 | 215 | 180 | 250 | 15 | 4 | 230 | 180 | 2xM32,1xM20 | 16 | 420 | 14 | 460 |
| 132S | 216 | 140 | 89 | 38 | M12 | 80 | 10 | 33 | 132 | 12 | 60 | 280 | 265 | 230 | 300 | 15 | 4 | 270 | 190 | 2xM32,1xM20 | 18 | 450 | 14 | 510 |
| 132M | 216 | 178 | 89 | 38 | M12 | 80 | 10 | 33 | 132 | 12 | 60 | 280 | 265 | 230 | 300 | 15 | 4 | 270 | 230 | 2xM32,1xM20 | 18 | 450 | 14 | 550 |
| 160M | 254 | 210 | 108 | 42 | M16 | 110 | 12 | 37 | 160 | 15 | 70 | 330 | 300 | 250 | 350 | 19 | 5 | 325 | 252 | 2xM32,1xM20 | 20 | 520 | 16 | 670 |
| 160L | 254 | 254 | 108 | 42 | M16 | 110 | 12 | 37 | 160 | 15 | 70 | 330 | 300 | 250 | 350 | 19 | 5 | 325 | 302 | 2xM32,1xM20 | 20 | 520 | 16 | 710 |
| 180M | 279 | 241 | 121 | 48 | M16 | 110 | 14 | 42.5 | 180 | 15 | 70 | 355 | 300 | 250 | 350 | 19 | 5 | 360 | 311 | 2xM32,1xM20 | 22 | 550 | 18 | 730 |
| 180L | 279 | 279 | 121 | 48 | M16 | 110 | 14 | 42.5 | 180 | 15 | 70 | 355 | 300 | 250 | 350 | 19 | 5 | 360 | 349 | 2xM32,1xM20 | 22 | 550 | 18 | 750 |
| 200L | 318 | 305 | 133 | 55 | M20 | 110 | 16 | 49 | 200 | 19 | 70 | 390 | 350 | 300 | 400 | 19 | 5 | 400 | 366 | 1xM50,1xM20 | 25 | 645 | 18 | 805 |
| 225S | 356 | 286 | 149 | 60 | M20 | 140 | 18 | 53 | 225 | 19 | 75 | 435 | 400 | 350 | 450 | 19 | 5 | 450 | 355 | 1xM50,1xM20 | 28 | 690 | 20 | 865 |
| 225M* | 356 | 311 | 149 | 55 | M20 | 110 | 16 | 49 | 225 | 19 | 75 | 435 | 400 | 350 | 450 | 19 | 5 | 450 | 380 | 1xM50,1xM20 | 28 | 690 | 20 | 860 |
| 225M | 356 | 311 | 149 | 60 | M20 | 140 | 18 | 53 | 225 | 19 | 75 | 435 | 400 | 350 | 450 | 19 | 5 | 450 | 380 | 1xM50,1xM20 | 28 | 690 | 20 | 890 |
| 250M* | 406 | 349 | 168 | 60 | M20 | 140 | 18 | 53 | 250 | 24 | 75 | 490 | 500 | 450 | 550 | 19 | 5 | 500 | 420 | 1xM63,1xM20 | 30 | 730 | 22 | 945 |
| 250M | 406 | 349 | 168 | 65 | M20 | 140 | 18 | 58 | 250 | 24 | 80 | 490 | 500 | 450 | 550 | 19 | 5 | 500 | 420 | 1xM63,1xM20 | 30 | 730 | 22 | 945 |
| 280S* | 457 | 368 | 190 | 65 | M20 | 140 | 18 | 58 | 280 | 24 | 90 | 545 | 500 | 450 | 550 | 19 | 5 | 560 | 438 | 1xM63,1xM20 | 35 | 810 | 22 | 1010 |
| 280S | 457 | 368 | 190 | 75 | M20 | 140 | 20 | 67.5 | 280 | 24 | 90 | 545 | 500 | 450 | 550 | 19 | 5 | 560 | 438 | 1xM63,1xM20 | 35 | 810 | 22 | 1010 |
| 280M* | 457 | 419 | 190 | 65 | M20 | 140 | 18 | 58 | 280 | 24 | 90 | 545 | 500 | 450 | 550 | 19 | 5 | 560 | 493 | 1xM63,1xM20 | 35 | 810 | 22 | 1060 |
| 280M | 457 | 419 | 190 | 75 | M20 | 140 | 20 | 67.5 | 280 | 24 | 90 | 545 | 500 | 450 | 550 | 19 | 5 | 560 | 493 | 1xM63,1xM20 | 35 | 810 | 22 | 1060 |
| 315S* | 508 | 406 | 216 | 65 | M20 | 140 | 18 | 58 | 315 | 28 | 120 | 640 | 600 | 550 | 660 | 24 | 6 | 630 | 550 | 2xM63,1xM20 | 45 | 1020 | 25 | 1320 |
| 315S | 508 | 406 | 216 | 80 | M20 | 170 | 22 | 71 | 315 | 28 | 120 | 640 | 600 | 550 | 660 | 24 | 6 | 630 | 550 | 2xM63,1xM20 | 45 | 1020 | 25 | 1350 |
| 315M* | 508 | 457 | 216 | 65 | M20 | 140 | 18 | 58 | 315 | 28 | 120 | 640 | 600 | 550 | 660 | 24 | 6 | 630 | 680 | 2xM63,1xM20 | 45 | 1020 | 25 | 1350 |
| 315M | 508 | 457 | 216 | 80 | M20 | 170 | 22 | 71 | 315 | 28 | 120 | 640 | 600 | 550 | 660 | 24 | 6 | 630 | 680 | 2xM63,1xM20 | 45 | 1020 | 25 | 1380 |
| 315L* | 508 | 508 | 216 | 65 | M20 | 140 | 18 | 58 | 315 | 28 | 120 | 640 | 600 | 550 | 660 | 24 | 6 | 630 | 680 | 2xM63,1xM20 | 45 | 1020 | 25 | 1490 |
| 315L | 508 | 508 | 216 | 80 | M20 | 170 | 22 | 71 | 315 | 28 | 120 | 640 | 600 | 550 | 660 | 24 | 6 | 630 | 680 | 2xM63,1xM20 | 45 | 1020 | 25 | 1520 |
| 355S* | 610 | 500 | 254 | 75 | M20 | 140 | 20 | 67.5 | 355 | 28 | 120 | 740 | 740 | 680 | 800 | 24 | 6 | 750 | 636 | 2xM63,1xM20 | 52 | 1080 | 25 | 1570 |
| 355S* | 610 | 500 | 254 | 95 | M20 | 170 | 25 | 86 | 355 | 28 | 120 | 740 | 740 | 680 | 800 | 24 | 6 | 750 | 636 | 2xM63,1xM20 | 52 | 1080 | 25 | 1570 |
| 355M* | 610 | 560 | 254 | 75 | M20 | 140 | 20 | 67.5 | 355 | 28 | 120 | 740 | 740 | 680 | 800 | 24 | 6 | 750 | 696 | 2xM63,1xM20 | 52 | 1080 | 25 | 1650 |
| 355M | 610 | 560 | 254 | 95 | M20 | 170 | 25 | 86 | 355 | 28 | 120 | 740 | 740 | 680 | 800 | 24 | 6 | 750 | 696 | 2xM63,1xM20 | 52 | 1080 | 25 | 1650 |
| 355L* | 610 | 630 | 254 | 75 | M20 | 140 | 20 | 67.5 | 355 | 28 | 120 | 740 | 740 | 680 | 800 | 24 | 6 | 750 | 766 | 2xM63,1xM20 | 52 | 1080 | 25 | 1750 |
| 355L | 610 | 630 | 254 | 95 | M20 | 170 | 25 | 86 | 355 | 28 | 120 | 740 | 740 | 680 | 800 | 24 | 6 | 750 | 766 | 2xM63,1xM20 | 52 | 1080 | 25 | 1750 |

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