



Elektrim TECHTOP

Product Catalogue



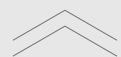
Elektrim **TECHTOP**

PRODUCT CATALOGUE

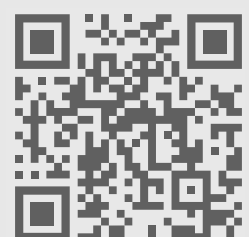




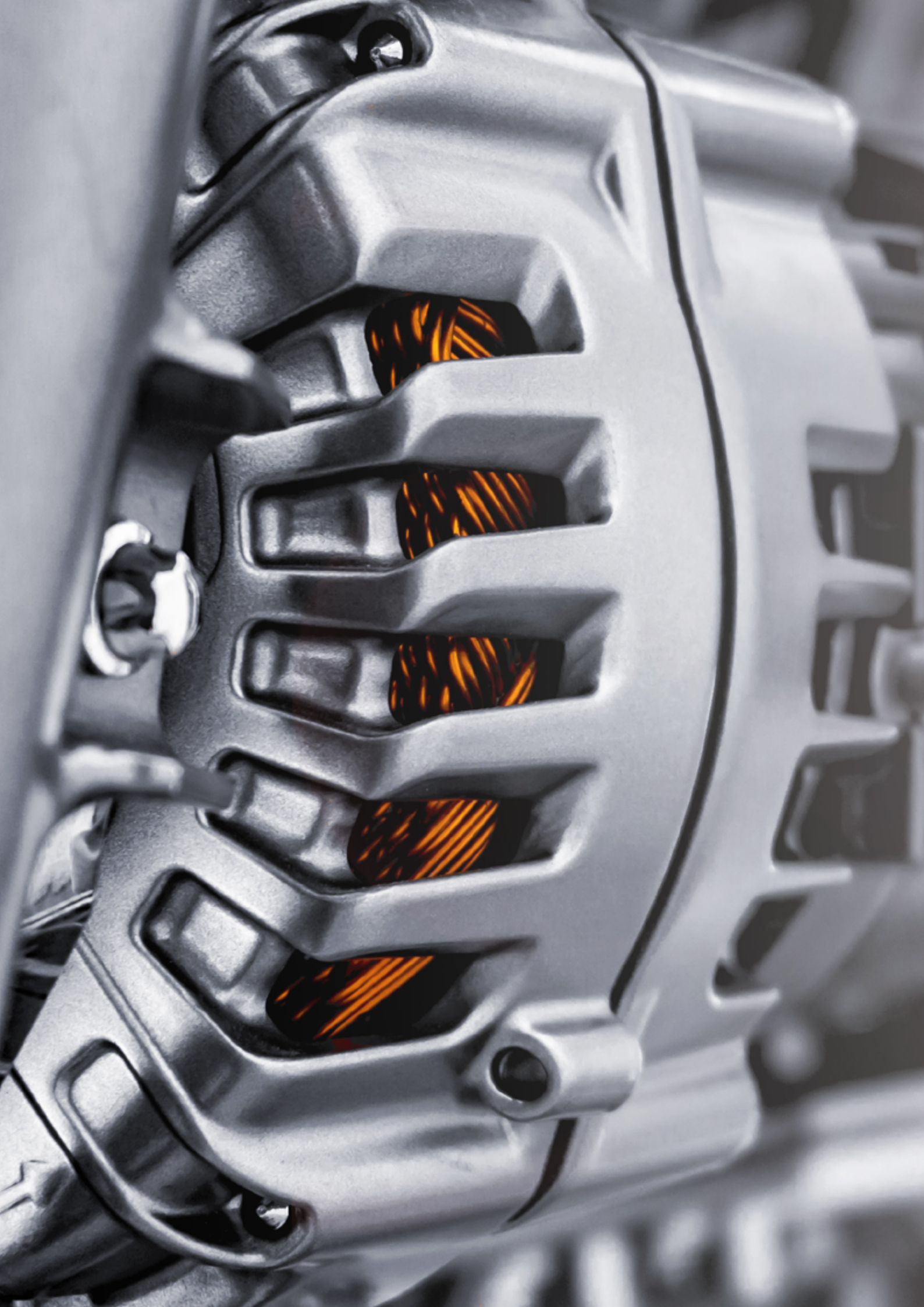
**PROJECT
REFERENCE**



**SCAN
HERE FOR
DIGITAL
CONTENT**



WEBSITE



Elektrim TECHTOP

Elektrim Techtop is a collaboration between two highly experienced companies in the electric motor industry. Our aim is to provide our customers with the highest quality electric motors on a global scale. We are committed to delivering excellent customer service and satisfaction, which is our top priority. To ensure this, we have the best after-sales policy in the industry, as well as a team of professional technical personnel and experienced sales representatives.

Our partnership has enabled us to provide personalized service and flexible product distribution in over 20 countries worldwide. This means that our customers can access our services and products easily, no matter where they are located. We are committed to **Driving Our Global Brand with Localized Service**, and we look forward to providing you with the best electric motors in the industry.

Established in 1981 as Elektrim Motors & Machinery Pte Ltd, our company has emerged as a prominent powerhouse in the motor industry over the last four decades. Our motto is to be **The Driving Force Behind Every Machine**. We have built a strong regional presence across more than 10 Asian countries, with branch offices situated in the East and West of Malaysia, as well as in the North and South of Vietnam, and we have formed partnerships with agents and distributors across the rest of the region. Our customers' needs are always well attended to.

Situated in Singapore, our Regional Headquarters covers an expansive area of 50,000 square feet and maintains an inventory valued at over S\$3 million to cater to the needs of our customers. Our extensive product line includes 14 types of AC motors that adhere to both IEC or NEMA standards, suitable for various industries.

Our brand is the No. 1 specialized brand in supplying electric motors to various industries such as the Palm Oil Industry, Water & Oil Pump, Fire Pump, and Quarry Mining. Our brand is well recognized and trusted in sectors like Rubber Machinery, Industrial Fan, Marine & Offshore Engineering, Agricultural, Buildings, Cement and particularly among OEM production.



GLOBAL MAP

SINGAPORE REGIONAL HQ

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HONG KONG HONG KONG

ZENITH INTERNATIONAL
ENTERPRISE LTD.

MYANMAR YANGON

MYANMA MANAW
CO., LTD

PHILIPPINES MANILA

PT CERNA CORPORATION

CAMBODIA PHNOM PENH

LPS CAMBODIA CO.

BANGLADESH SINGAPORE OFFICE

USAFE TRADING PTE LTD

SRI LANKA MOUNT LAVINIA

SM INTERNATIONAL
PTE., LTD

INDONESIA SURABAYA

PT INTERJAYA
SURYAMEGAH

BATAM
PT BIOTANI INDONESIA

EAST MALAYSIA SABAH

MILLIVEST SDN BHD
(EAST MALAYSIA) SDN BHD

SARAWAK
UNIPAKAR MACHINERY
SDN BHD

PENANG
MOTRADE SDN BHD

AUSTRALIA VICTORIA

TECHTOP AUSTRALIA
PTY LTD

UNITED KINGDOM ENGLAND

TEC ELECTRIC MOTORS LTD

GERMANY HESSE

TECHTOP ADDA
MOTOR GMBH

SPAIN BARCELONA

DIMOTOR S.A.

ITALY BOLOGNA

SIMOTOP GROUP
SPA

CANADA ONTARIO

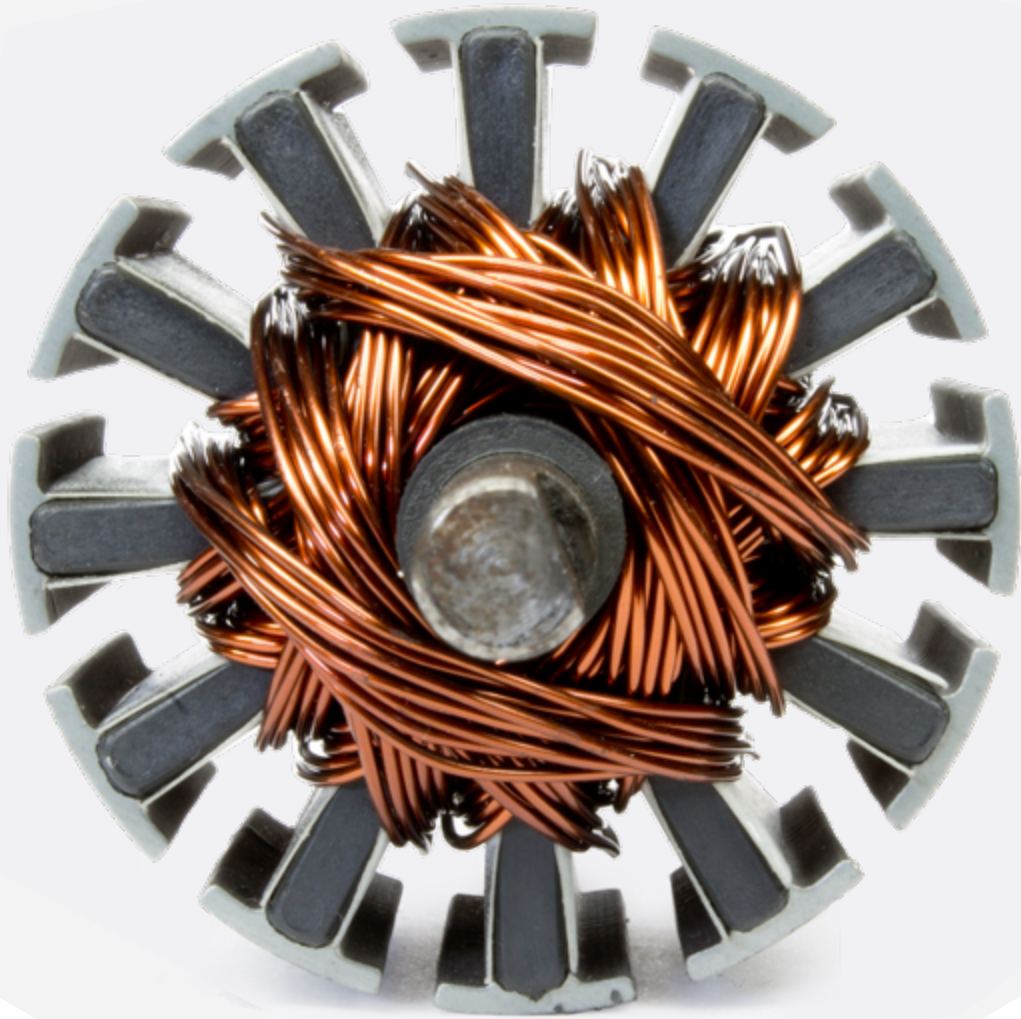
TECHTOP CANADA INC.

USA GEORGIA

TECHTOP
INDUSTRIES INC.

U.A.E DUBAI

GLOBAL POWER
ENGINEERING CO. LTD.



THE

DRIVING FORCE

BEHIND EVERY MACHINE

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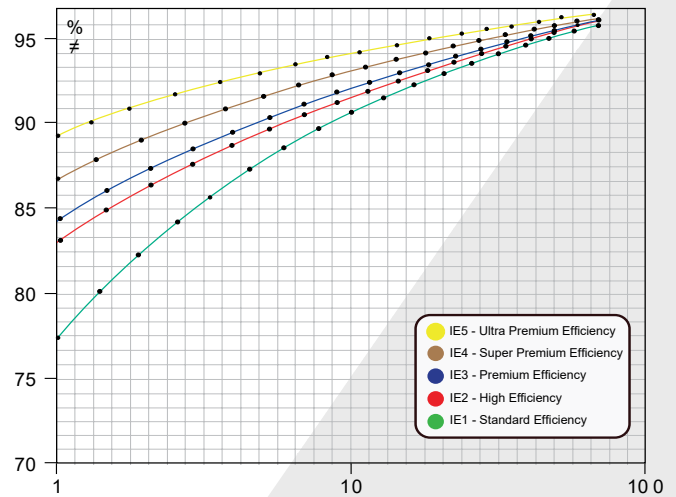
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MARINE MOTORS
DNV-GL CERTIFICATE

EU EFFICIENCY LEVEL CLASSIFICATION

An agreement has been reached between CEMEP and the European Union with the objective of reducing the power requirement of electric motors and energy consumption in Europe. This agreement affects 2, 4, 6 and 8 pole three phase AC motors, specifically standard motors that are defined as totally enclosed fan cooled, squirrel cage low voltage motors with 380V to 415V, running at 50Hz in the rated output range of 0.75kW to 90kW.

In the output range of 0.75kW to 90kW, the standard three phase motors described in this documentation correspond with the EU efficiency classification IE1 to IE5. The Efficiency designation and information of these motors is indicated on the nameplate. It is important to note that this agreement aims to contribute to energy efficiency and reduction of power consumption, and as such, adherence to these standards is recommended.



| 2 Pole | IE1 | IE2 | IE3 | IE4 | IE5 |
|--------|---------|---------|---------|---------|---------|
| kW | min- π% | min- π% | min- π% | min- π% | min- π% |
| 1.1 | 75 | 79.6 | 82.7 | 86.7 | 87.8 |
| 1.5 | 77.2 | 81.3 | 84.2 | 87.5 | 88.9 |
| 2.2 | 79.7 | 83.2 | 85.9 | 89.1 | 90.2 |
| 3 | 81.5 | 84.6 | 87.1 | 89.7 | 91.1 |
| 4 | 83.1 | 85.8 | 88.1 | 90.3 | 91.8 |
| 5.5 | 84.7 | 87 | 89.2 | 91.5 | 92.6 |
| 7.5 | 86 | 88.1 | 90.1 | 92.1 | 93.3 |
| 11 | 87.6 | 89.4 | 91.2 | 93 | 94 |
| 15 | 88.7 | 90.3 | 91.9 | 93.4 | 94.5 |
| 18.5 | 89.3 | 90.9 | 92.4 | 93.8 | 94.9 |
| 22 | 89.9 | 91.3 | 92.7 | 94.4 | 95.1 |
| 30 | 90.7 | 92 | 93.3 | 94.5 | 95.5 |
| 37 | 91.2 | 92.5 | 93.7 | 94.8 | 95.8 |
| 45 | 91.7 | 92.9 | 94 | 95.1 | 96 |
| 55 | 92.1 | 93.2 | 94.3 | 95.4 | 96.2 |
| 75 | 92.7 | 93.8 | 94.7 | 95.6 | 96.5 |
| 90 | 93 | 94.1 | 95 | 95.8 | 96.6 |

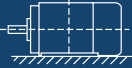
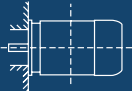
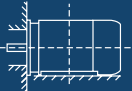


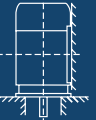


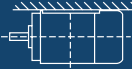

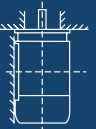

| 4 Pole | IE1 | IE2 | IE3 | IE4 | IE5 |
|--------|---------|---------|---------|---------|---------|
| kW | min- π% | min- π% | min- π% | min- π% | min- π% |
| 1.1 | 75 | 81.4 | 84.1 | 87.4 | 89.5 |
| 1.5 | 77.2 | 82.8 | 85.3 | 88.2 | 90.4 |
| 2.2 | 79.7 | 84.3 | 86.7 | 89.7 | 91.4 |
| 3 | 81.5 | 85.5 | 87.7 | 90.4 | 92.1 |
| 4 | 83.1 | 86.6 | 88.6 | 91.1 | 92.8 |
| 5.5 | 84.7 | 87.7 | 89.6 | 92.1 | 93.4 |
| 7.5 | 86 | 88.7 | 90.4 | 92.6 | 94 |
| 11 | 87.6 | 89.8 | 91.4 | 93.6 | 94.6 |
| 15 | 88.7 | 90.6 | 92.1 | 94 | 95.1 |
| 18.5 | 89.3 | 91.2 | 92.6 | 94.3 | 95.3 |
| 22 | 89.9 | 91.6 | 93 | 94.7 | 95.5 |
| 30 | 90.7 | 92.3 | 93.6 | 95 | 95.9 |
| 37 | 91.2 | 92.7 | 93.9 | 95.3 | 96.1 |
| 45 | 91.7 | 93.1 | 94.2 | 95.6 | 96.3 |
| 55 | 92.1 | 93.5 | 94.6 | 95.8 | 96.5 |
| 75 | 92.7 | 94 | 95 | 96 | 96.7 |
| 90 | 93 | 94.2 | 95.2 | 96.2 | 96.9 |

*Efficiency graph and table are used for illustration purposes only, and comply with IEC requirements. Kindly contact Elektrim sales personnel for detailed efficiency data for our motors.

DEGREES OF PROTECTION

| DESIGNATION | FIRST NUMERAL | SECOND NUMERAL |
|-------------|--|---|
| | Protection against contact and ingress of foreign bodies | Protection against water |
| | 5. Ingress of dust is not totally prevented, but dust shall not interfere with the satisfactory operation of equipment. A probe of 1mm diameter shall not penetrate the enclosure. | 5. Water projected in jets against the enclosure from any direction will have no harmful effects. |
| | 6. No ingress of dust | 6. Water projected in power jets shall have no harmful effects. |
| IP55 | Dust protected | Jetting water |
| IP56 | Dust protected | Powerful Jetting |
| IP65 | Dust tight | Jetting water |
| IP66 | Dust tight | Powerful Jetting |

MOUNTING ARRANGEMENTS

| FOOT MTG HORIZ | FLANGE MTG | FOOT/FLANGE MTG | FOOT MTG VERT |
|---|---|---|---|
| B3 IM1001 H80 ~ 355  | B5 IM3001 H80 ~ 280  | B35 IM2001 H80 ~ 355  | |
| B6 IM1051 H80 ~ 160  | V1 IM3011 H80 ~ 355  | V15 IM2011 H80 ~ 160  | V5 IM1011 H80 ~ 160  |
| B7 IM1061 H80 ~ 160  | | | |
| B8 IM1071 H80 ~ 160  | V3 IM3031 H80 ~ 160  | V36 IM2031 H80 ~ 160  | V6 IM1031 H80 ~ 160  |

BEARING DATA

| FRAME | DRIVE END BEARING | NON-DRIVE END BEARING | QUANTITY OF GREASE IN BEARING CHAMBER (GRAMS) |
|------------------|-------------------|-----------------------|---|
| EM 63 | 6201C3 | 6201C3 | Life Bearing |
| EM 70 | 6202C3 | 6202C3 | Life Bearing |
| EM 80 | 6204C3 | 6204C3 | Life Bearing |
| EM 90 | 6205C3 | 6205C3 | Life Bearing |
| EM 100 | 6206C3 | 6206C3 | Life Bearing |
| EM 112 | 6306C3 | 6306C3 | Life Bearing |
| EM 132 | 6308C3 | 6308C3 | Life Bearing |
| EM 160 | 6309C3 | 6309C3 | 20 |
| EM 180 | 6311C3 | 6311C3 | 25 |
| EM 200 | 6312C3 | 6312C3 | 25 |
| EM 225 | 6313C3 | 6313C3 | 30 |
| EM 250 | 6314C3 | 6314C3 | 40 |
| EM 280 (2P) | 6314C3 | 6314C3 | 40 |
| EM 280 (4P - 8P) | 6317C3 | 6317C3 | 40 |
| EM 315 (2P) | 6316C3 / 6317C3 | 6316C3 / 6317C3 | 45 |
| EM 315 (4P - 8P) | 6319C3 (N319) | 6319 C3 | 50 |
| EM 355 (2P) | 6319 C3 | 6319 C3 | 60 |
| EM 355 (4P - 8P) | 6322C3 (N322) | 6322 C3 | 60 |

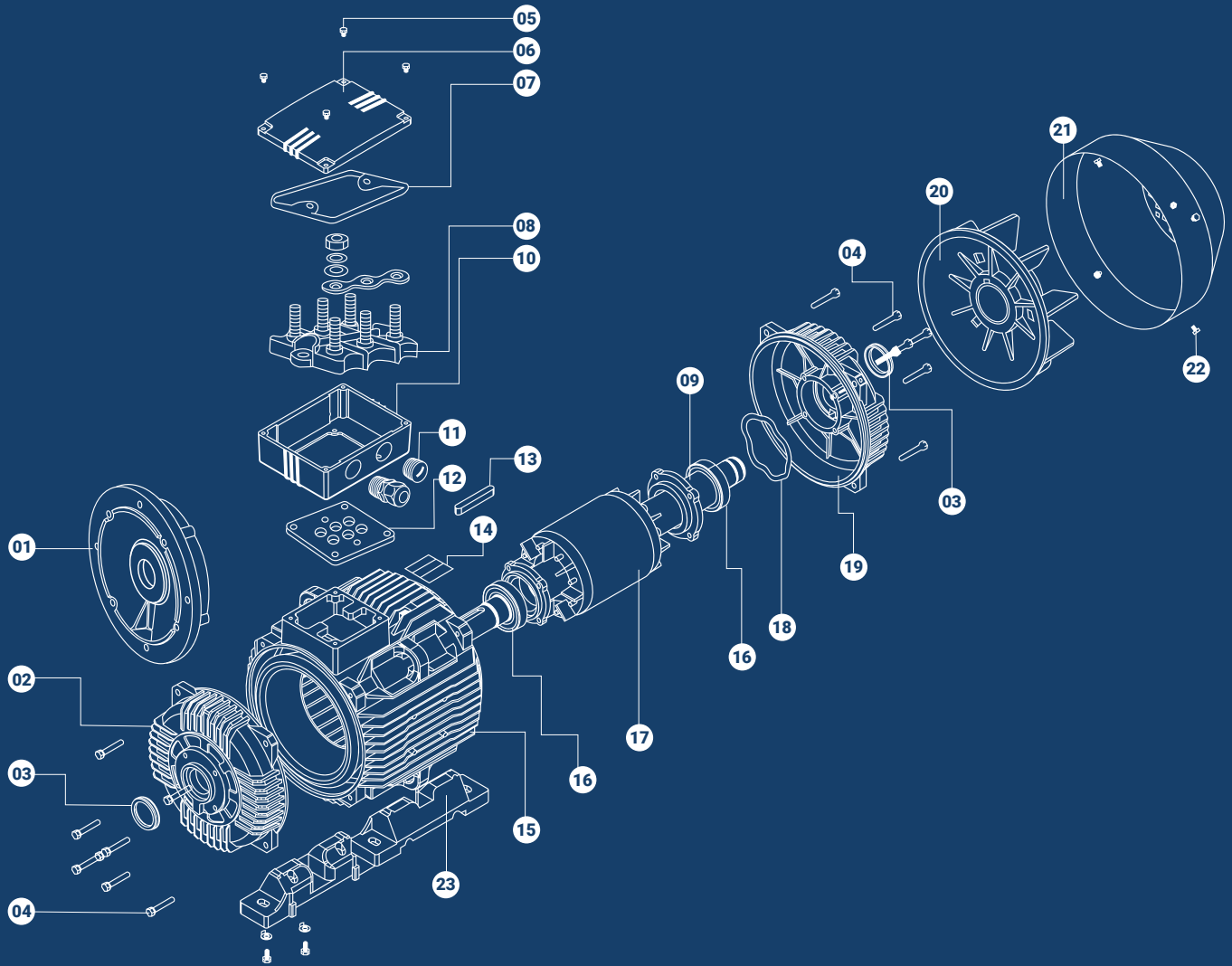
* Our choice of bearing to be used in Elektrim Cast Iron Motors will be SKF or equivalent quality.

TEMPERATURE

| | INSULATION CLASS | |
|---|------------------|-----------|
| | Class F | Class H |
| Max. permissible winding temperature (°C) | 155 | 180 |
| Max. ambient temperature (°C) | 45 | 80 |
| Min. ambient temperature (°C) | -15 | -15 |
| Max. hours of operation at max. ambient temperature | Unlimited | Unlimited |
| Max. permissible humidity (%) | 100 | 100 |
| Temperature rise safety margin (K) | 80K | 125K |

* The motor types listed in this catalogue are only for base models. For more information on motor modifications beyond the standard model and mounting options, kindly contact your Elektrim sales personnel for more information.

MOTOR SPARE PART LIST



PART LIST

| | | | |
|---|---|----------------------------------|---|
| 01 FLANGE B5 | 02 END SHIELD B3 | 03 V-RING | 04 SCREWS FOR END SHIELD |
| 05 SCREWS FOR FIXING TERMINAL BOXCOVER | 06 TERMINAL BOX COVER IP55 | 07 TERMINAL BOX SEAL | 08 TERMINAL BOARD COMPLETE WITH COMPONENTS |
| 09 BEARING COVER | 10 TERMINAL BOX BASE | 11 CABLE GLAND AND PLUG | 12 TERMINAL BASE SEAL |
| 13 KEY | 14 NAME PLATE | 15 FRAME | 16 BEARINGS |
| 17 ROTOR WITH SHAFT COMPLETE | 18 SPRING WASHER | 19 END SHIELD | 20 COOLING FAN |
| 21 FAN COVER | 22 SCREWS FOR FIXING FAN COVER | 23 FEET | |

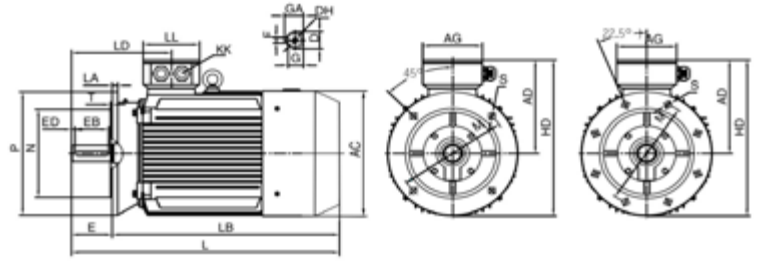


Elektrim
TECHTOP

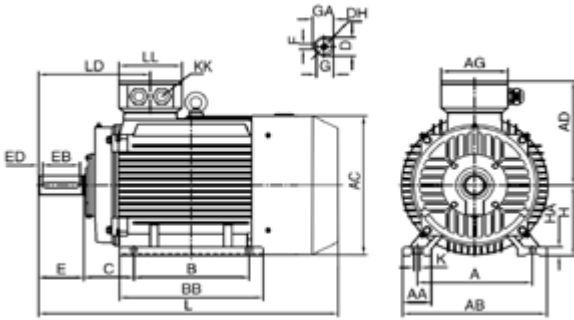
DIMENSIONAL DRAWING

CAST IRON - IE1 & IE2

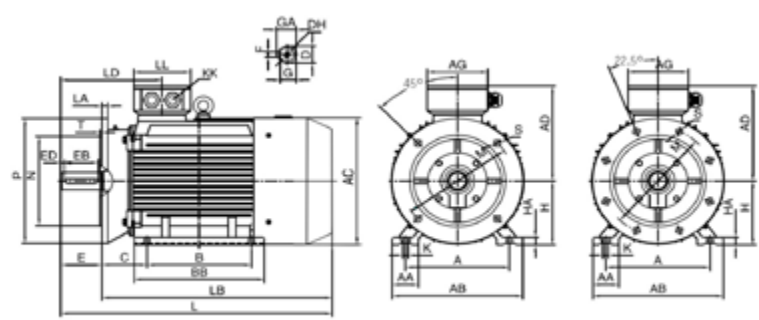
*all dimenions are measured in mm



FLANGE MOUNTED B5



FOOT MOUNTED B3



FOOT & FLANGE MOUNTED B35

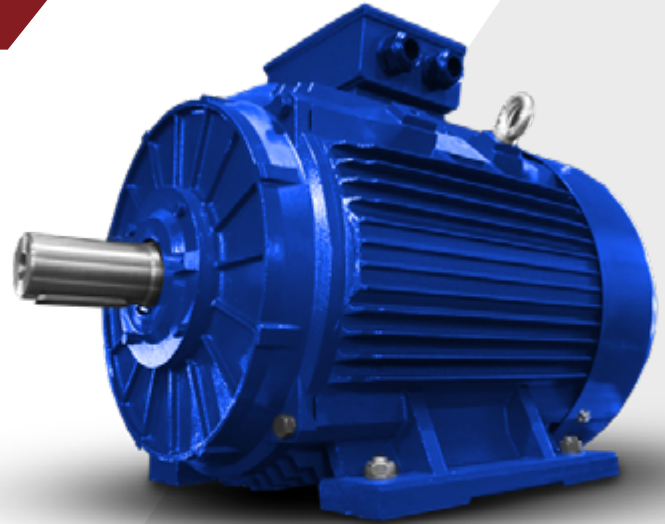
| Frame Size | A | AA | AB | AC | AD | AG | B | BB | C | D | DH | E | EB | ED | F | G | GA | H | HA | K | KK | L | LA | LB | LD | LL | N | P | S | T | |
|------------|----------|-----|-----|-----|-------|-----|-----|-----|-----|-----|----|--------|-----|-----|-----|----|------|------|-----|----|---------|---------|------|----|------|-------|-----|-----|-----|------|-----|
| 80 | 2,4,6,8 | 125 | 34 | 160 | 155.4 | 131 | 94 | 100 | 130 | 50 | 19 | M6X16 | 40 | 30 | 5 | 6 | 15.5 | 21.5 | 80 | 10 | 4-Φ10 | M20*1.5 | 284 | 12 | 244 | 112 | 94 | 130 | 200 | 12 | 3.5 |
| 90S | 2,4,6,8 | 140 | 36 | 176 | 175.4 | 148 | 102 | 100 | 130 | 56 | 24 | M8X19 | 50 | 40 | 5 | 8 | 20 | 27 | 90 | 12 | 4-Φ10 | M20*1.5 | 318 | 12 | 258 | 130 | 102 | 130 | 200 | 12 | 3.5 |
| 90L | 2,4,6,8 | 140 | 36 | 176 | 175.4 | 148 | 102 | 125 | 155 | 56 | 24 | M8X19 | 50 | 40 | 5 | 8 | 20 | 27 | 90 | 12 | 4-Φ10 | M20*1.5 | 343 | 12 | 283 | 130 | 102 | 130 | 200 | 12 | 3.5 |
| 100L | 2,4,6,8 | 160 | 40 | 200 | 195.4 | 162 | 102 | 140 | 176 | 63 | 28 | M10X22 | 60 | 50 | 5 | 8 | 24 | 31 | 100 | 14 | 4-Φ12 | M20*1.5 | 370 | 13 | 320 | 139 | 102 | 180 | 250 | 14.5 | 4 |
| 112M | 2,4,6,8 | 190 | 45 | 226 | 219.4 | 183 | 118 | 140 | 180 | 70 | 28 | M10X22 | 60 | 50 | 5 | 8 | 24 | 31 | 112 | 15 | 4-Φ12 | M25*1.5 | 394 | 14 | 334 | 147 | 110 | 180 | 250 | 14.5 | 4 |
| 132S | 2,4,6,8 | 216 | 55 | 262 | 258.4 | 203 | 118 | 140 | 186 | 89 | 38 | M12X28 | 80 | 65 | 7.5 | 10 | 33 | 41 | 132 | 18 | 4-Φ12 | M25*1.5 | 456 | 14 | 390 | 172 | 110 | 230 | 300 | 14.5 | 4 |
| 132M | 4,6,8 | 216 | 55 | 262 | 258.4 | 203 | 118 | 178 | 224 | 89 | 38 | M12X28 | 80 | 65 | 7.5 | 10 | 33 | 41 | 132 | 18 | 4-Φ12 | M25*1.5 | 494 | 14 | 428 | 172 | 110 | 230 | 300 | 14.5 | 4 |
| 160M | 2,4,6,8 | 254 | 65 | 314 | 314 | 251 | 162 | 210 | 260 | 108 | 42 | M16X36 | 110 | 90 | 10 | 12 | 37 | 45 | 160 | 20 | 4-Φ14.5 | M32*1.5 | 608 | 15 | 498 | 256 | 152 | 250 | 350 | 18.5 | 5 |
| 160L | 2,4,6,8 | 254 | 65 | 314 | 314 | 251 | 162 | 254 | 304 | 108 | 42 | M16X36 | 110 | 90 | 10 | 12 | 37 | 45 | 160 | 20 | 4-Φ14.5 | M32*1.5 | 652 | 15 | 542 | 256 | 152 | 250 | 350 | 18.5 | 5 |
| 180M | 2,4,8 | 279 | 70 | 349 | 355 | 267 | 162 | 241 | 311 | 121 | 48 | M16X36 | 110 | 90 | 10 | 14 | 42.5 | 51.5 | 180 | 22 | 4-Φ14.5 | M32*1.5 | 688 | 15 | 578 | 271 | 152 | 250 | 350 | 18.5 | 5 |
| 180L | 4,6,8 | 279 | 70 | 349 | 355 | 267 | 162 | 279 | 349 | 121 | 48 | M16X36 | 110 | 90 | 10 | 14 | 42.5 | 51.5 | 180 | 22 | 4-Φ14.5 | M32*1.5 | 726 | 15 | 616 | 271 | 152 | 250 | 350 | 18.5 | 5 |
| 200L | 2,4,6,8 | 318 | 70 | 388 | 397 | 299 | 210 | 305 | 369 | 133 | 55 | M20X42 | 110 | 100 | 5 | 16 | 49 | 59 | 200 | 25 | 4-Φ18.5 | M32*1.5 | 771 | 17 | 661 | 296 | 190 | 300 | 400 | 18.5 | 5 |
| 225S | 4,8 | 356 | 75 | 431 | 446 | 322 | 210 | 286 | 368 | 149 | 60 | M20X42 | 140 | 125 | 7.5 | 18 | 53 | 64 | 225 | 28 | 4-Φ18.5 | M50*1.5 | 824 | 20 | 684 | 329 | 190 | 350 | 450 | 18.5 | 5 |
| 225M | 2 | 356 | 75 | 431 | 446 | 322 | 210 | 311 | 393 | 149 | 55 | M20X42 | 110 | 100 | 5 | 16 | 49 | 59 | 225 | 28 | 4-Φ18.5 | M50*1.5 | 819 | 20 | 709 | 299 | 190 | 350 | 450 | 18.5 | 5 |
| 225M | 4,6,8 | 356 | 75 | 431 | 446 | 322 | 210 | 311 | 393 | 149 | 60 | M20X42 | 140 | 125 | 7.5 | 18 | 53 | 64 | 225 | 28 | 4-Φ18.5 | M50*1.5 | 849 | 20 | 709 | 329 | 190 | 350 | 450 | 18.5 | 5 |
| 250M | 2 | 406 | 80 | 484 | 485 | 358 | 248 | 349 | 445 | 168 | 60 | M20X42 | 140 | 125 | 7.5 | 18 | 53 | 64 | 250 | 30 | 4-Φ24 | M50*1.5 | 910 | 22 | 770 | 347 | 218 | 450 | 550 | 18.5 | 5 |
| 250M | 4,6,8 | 406 | 80 | 484 | 485 | 358 | 248 | 349 | 445 | 168 | 65 | M20X42 | 140 | 125 | 7.5 | 18 | 58 | 69 | 250 | 30 | 4-Φ24 | M50*1.5 | 910 | 22 | 770 | 347 | 218 | 450 | 550 | 18.5 | 5 |
| 280S | 2 | 457 | 85 | 542 | 547 | 387 | 248 | 368 | 485 | 190 | 65 | M20X42 | 140 | 125 | 7.5 | 18 | 58 | 69 | 280 | 35 | 4-Φ24 | M50*1.5 | 982 | 22 | 842 | 355.5 | 218 | 450 | 550 | 18.5 | 5 |
| 280S | 4,6,8 | 457 | 85 | 542 | 547 | 387 | 248 | 368 | 485 | 190 | 75 | M20X42 | 140 | 125 | 7.5 | 20 | 67.5 | 79.5 | 280 | 35 | 4-Φ24 | M50*1.5 | 982 | 22 | 842 | 355.5 | 218 | 450 | 550 | 18.5 | 5 |
| 280M | 2 | 457 | 85 | 542 | 547 | 387 | 248 | 419 | 536 | 190 | 65 | M20X42 | 140 | 125 | 7.5 | 18 | 58 | 69 | 280 | 35 | 4-Φ24 | M50*1.5 | 1033 | 22 | 893 | 355.5 | 218 | 450 | 550 | 18.5 | 5 |
| 280M | 4,6,8 | 457 | 85 | 542 | 547 | 387 | 248 | 419 | 536 | 190 | 75 | M20X42 | 140 | 125 | 7.5 | 20 | 67.5 | 79.5 | 280 | 35 | 4-Φ24 | M50*1.5 | 1033 | 22 | 893 | 355.5 | 218 | 450 | 550 | 18.5 | 5 |
| 315S | 2 | 508 | 120 | 628 | 620 | 527 | 320 | 406 | 570 | 216 | 65 | M20X42 | 140 | 125 | 7.5 | 18 | 58 | 69 | 315 | 45 | 4-Φ28 | M63*1.5 | 1178 | 22 | 1038 | 397 | 280 | 550 | 660 | 24 | 6 |
| 315S | 4,6,8,10 | 508 | 120 | 628 | 620 | 527 | 320 | 406 | 570 | 216 | 80 | M20X42 | 170 | 160 | 5 | 22 | 71 | 85 | 315 | 45 | 4-Φ28 | M63*1.5 | 1208 | 22 | 1038 | 427 | 280 | 550 | 660 | 24 | 6 |
| 315M | 2 | 508 | 120 | 628 | 620 | 527 | 320 | 457 | 680 | 216 | 65 | M20X42 | 140 | 125 | 7.5 | 18 | 58 | 69 | 315 | 45 | 4-Φ28 | M63*1.5 | 1288 | 22 | 1148 | 397 | 280 | 550 | 660 | 24 | 6 |
| 315M | 4,6,8,10 | 508 | 120 | 628 | 620 | 527 | 320 | 457 | 680 | 216 | 80 | M20X42 | 170 | 160 | 5 | 22 | 71 | 85 | 315 | 45 | 4-Φ28 | M63*1.5 | 1318 | 22 | 1148 | 427 | 280 | 550 | 660 | 24 | 6 |
| 315L | 2 | 508 | 120 | 628 | 620 | 527 | 320 | 508 | 680 | 216 | 65 | M20X42 | 140 | 125 | 7.5 | 18 | 58 | 69 | 315 | 45 | 4-Φ28 | M63*1.5 | 1288 | 22 | 1148 | 397 | 280 | 550 | 660 | 24 | 6 |
| 315L | 4,6,8,10 | 508 | 120 | 628 | 620 | 527 | 320 | 508 | 680 | 216 | 80 | M20X42 | 170 | 160 | 5 | 22 | 71 | 85 | 315 | 45 | 4-Φ28 | M63*1.5 | 1318 | 22 | 1148 | 427 | 280 | 550 | 660 | 24 | 6 |
| 355M | 2 | 610 | 116 | 726 | 698 | 642 | 380 | 560 | 750 | 254 | 75 | M20X42 | 140 | 130 | 5 | 20 | 67.5 | 79.5 | 355 | 52 | 6-Φ28 | M63*1.5 | 1486 | 25 | 1346 | 414 | 330 | 680 | 800 | 24 | 6 |
| 355M | 4,6,8,10 | 610 | 116 | 726 | 698 | 642 | 380 | 560 | 750 | 254 | 95 | M24X50 | 170 | 160 | 5 | 25 | 86 | 100 | 355 | 52 | 6-Φ28 | M63*1.5 | 1516 | 25 | 1346 | 444 | 330 | 680 | 800 | 24 | 6 |
| 355L | 2 | 610 | 116 | 726 | 698 | 642 | 380 | 630 | 750 | 254 | 75 | M20X42 | 140 | 130 | 5 | 20 | 67.5 | 79.5 | 355 | 52 | 6-Φ28 | M63*1.5 | 1486 | 25 | 1346 | 414 | 330 | 680 | 800 | 24 | 6 |
| 355L | 4,6,8,10 | 610 | 116 | 726 | 698 | 642 | 380 | 630 | 750 | 254 | 95 | M24X50 | 170 | 160 | 5 | 25 | 86 | 100 | 355 | 52 | 6-Φ28 | M63*1.5 | 1516 | 25 | 1346 | 444 | 330 | 680 | 800 | 24 | 6 |

INDUCTION MOTORS

THREE-PHASE ASYNCHRONOUS MOTORS CAST IRON HOUSING

The EMM series of three-phase asynchronous motors are constructed as Totally Enclosed Fan Cooled (TEFC) and are available in both cast iron and aluminum housing. They encompass our latest design with many new features, are made of selected high-quality materials, and conform to the IEC Standard.

Some unique design features include our special conical pro-ventilation fan cover, detachable feet for cast iron housing, and an extended aluminum housing range up to frame size 200. EMM series motors come with Protection IP55, Insulation Class F, and SKF imported bearings as standard. These series of motors can be used for general drives.



TECHNICAL DATA

CAST IRON - IE1 2 POLE

| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|------------|--------------|-----|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM80A-2 | 0.75 | 1 | 2830 | 1.90 | 1.81 | 1.74 | 72.1 | 0.83 | 2.5 | 2.2 | 2.3 | 6.1 | 0.001 | 62 | 16 |
| EM80B-2 | 1.1 | 1.5 | 2830 | 2.65 | 2.52 | 2.43 | 75 | 0.84 | 3.7 | 2.2 | 2.3 | 6.9 | 0.002 | 62 | 17 |
| EM90S-2 | 1.5 | 2 | 2840 | 3.51 | 3.34 | 3.22 | 77.2 | 0.84 | 5 | 2.2 | 2.3 | 7 | 0.002 | 67 | 20 |
| EM90L-2 | 2.2 | 3 | 2840 | 4.93 | 4.69 | 4.52 | 79.7 | 0.85 | 7.4 | 2.2 | 2.3 | 7 | 0.003 | 67 | 23 |
| EM100L-2 | 3 | 4 | 2870 | 6.43 | 6.11 | 5.89 | 81.5 | 0.87 | 10 | 2.2 | 2.3 | 7.5 | 0.005 | 74 | 29 |
| EM112M-2 | 4 | 5.5 | 2890 | 8.31 | 7.90 | 7.61 | 83.1 | 0.88 | 13.3 | 2.2 | 2.3 | 7.5 | 0.008 | 77 | 41 |
| EM132SA-2 | 5.5 | 7.5 | 2900 | 11.2 | 10.7 | 10.3 | 84.7 | 0.88 | 18.1 | 2.2 | 2.3 | 7.5 | 0.014 | 79 | 57 |
| EM132SB-2 | 7.5 | 10 | 2900 | 15.1 | 14.3 | 13.8 | 86 | 0.88 | 24.5 | 2.2 | 2.3 | 7.5 | 0.018 | 79 | 60 |
| EM160MA-2 | 11 | 15 | 2930 | 21.4 | 20.4 | 19.6 | 87.6 | 0.89 | 35.8 | 2.2 | 2.3 | 7.5 | 0.051 | 81 | 104 |
| EM160MB-2 | 15 | 20 | 2930 | 28.9 | 27.4 | 26.4 | 88.7 | 0.89 | 48.8 | 2.2 | 2.3 | 7.5 | 0.064 | 81 | 106 |
| EM160L-2 | 18.5 | 25 | 2930 | 35.0 | 33.2 | 32.0 | 89.3 | 0.9 | 60.4 | 2.2 | 2.3 | 7.5 | 0.076 | 81 | 132 |
| EM180M-2 | 22 | 30 | 2940 | 41.3 | 39.2 | 37.8 | 89.9 | 0.9 | 71.4 | 2 | 2.3 | 7.5 | 0.105 | 83 | 155 |
| EM200LA-2 | 30 | 40 | 2950 | 55.8 | 53.0 | 51.1 | 90.7 | 0.9 | 97.2 | 2 | 2.3 | 7.5 | 0.179 | 84 | 217 |
| EM200LB-2 | 37 | 50 | 2950 | 68.5 | 65.1 | 62.7 | 91.2 | 0.9 | 119.8 | 2 | 2.3 | 7.5 | 0.201 | 84 | 228 |
| EM225M-2 | 45 | 60 | 2970 | 82.8 | 78.7 | 75.9 | 91.7 | 0.9 | 144.8 | 2 | 2.3 | 7.5 | 0.305 | 86 | 286 |
| EM250M-2 | 55 | 75 | 2970 | 101 | 95.8 | 92.3 | 92.1 | 0.9 | 177 | 2 | 2.3 | 7.5 | 0.414 | 89 | 354 |
| EM280S-2 | 75 | 100 | 2970 | 137 | 130 | 125 | 92.7 | 0.9 | 241.3 | 2 | 2.3 | 7 | 0.695 | 91 | 493 |
| EM280M-2 | 90 | 125 | 2970 | 162 | 154 | 148 | 93 | 0.91 | 289.5 | 2 | 2.3 | 7.1 | 0.852 | 91 | 505 |
| EM315S-2 | 110 | 150 | 2980 | 197 | 187 | 180 | 93.3 | 0.91 | 352.7 | 1.8 | 2.2 | 7.1 | 1.753 | 92 | 870 |
| EM315M-2 | 132 | 180 | 2980 | 236 | 224 | 216 | 93.5 | 0.91 | 423.2 | 1.8 | 2.2 | 7.1 | 1.874 | 92 | 945 |
| EM315LA-2 | 160 | 220 | 2980 | 285 | 271 | 261 | 93.8 | 0.91 | 513 | 1.8 | 2.2 | 7.1 | 2.296 | 92 | 995 |
| EM315L-2 | 185 | 250 | 2980 | 326 | 310 | 301 | 94 | 0.91 | 592.9 | 1.8 | 2.2 | 7.1 | 2.38 | 92 | 1050 |
| EM315LB-2 | 200 | 270 | 2980 | 351 | 334 | 322 | 94 | 0.92 | 641.2 | 1.8 | 2.2 | 7.1 | 3.2 | 92 | 1120 |
| EM355MA-2 | 220 | 300 | 2980 | 391 | 367 | 358 | 94 | 0.92 | 640.9 | 1.8 | 2.2 | 7.1 | 2.478 | 100 | 1800 |
| EM355MB-2 | 250 | 340 | 2980 | 439 | 417 | 402 | 94 | 0.92 | 801.5 | 1.6 | 2.2 | 7.1 | 3.14 | 100 | 1890 |
| EM355LA-2 | 280 | 375 | 2980 | 497 | 468 | 455 | 94 | 0.92 | 897.3 | 1.6 | 2.2 | 7.1 | 4.4 | 100 | 2040 |
| EM355L-2 | 315 | 430 | 2980 | 553 | 526 | 507 | 94 | 0.92 | 1009.9 | 1.6 | 2.2 | 7.1 | 3.85 | 100 | 2235 |
| EM355LB-2 | 355 | 475 | 2980 | 631 | 593 | 577 | 94 | 0.92 | 1137.6 | 1.6 | 2.2 | 7.1 | 5.2 | 100 | 2310 |

CAST IRON - IE1 4 POLE

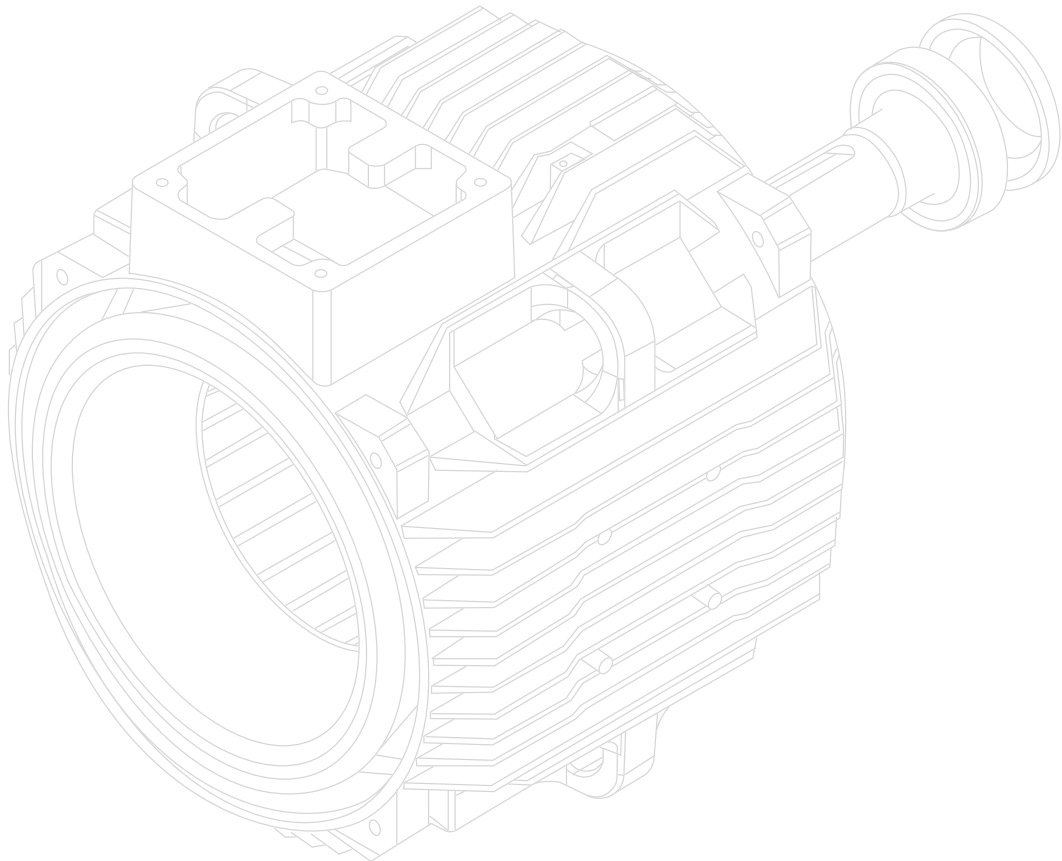
| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|------------|--------------|------|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM80A-4 | 0.55 | 0.75 | 1390 | 1.59 | 1.51 | 1.46 | 70 | 0.75 | 3.8 | 2.4 | 2.3 | 5.2 | 0.001 | 56 | 15 |
| EM80B-4 | 0.75 | 1 | 1390 | 2.08 | 1.98 | 1.90 | 72.1 | 0.76 | 5.2 | 2.3 | 2.3 | 6 | 0.003 | 56 | 16 |
| EM90S-4 | 1.1 | 1.5 | 1400 | 2.89 | 2.75 | 2.65 | 75 | 0.77 | 7.5 | 2.3 | 2.3 | 6 | 0.004 | 59 | 19 |
| EM90L-4 | 1.5 | 2 | 1400 | 3.78 | 3.60 | 3.47 | 77.2 | 0.78 | 10.2 | 2.3 | 2.3 | 6 | 0.006 | 59 | 23 |
| EM100LA-4 | 2.2 | 3 | 1430 | 5.18 | 4.92 | 4.74 | 79.7 | 0.81 | 14.8 | 2.3 | 2.3 | 7 | 0.01 | 64 | 29 |
| EM100LB-4 | 3 | 4 | 1430 | 6.82 | 6.48 | 6.25 | 81.5 | 0.82 | 20.2 | 2.3 | 2.3 | 7 | 0.013 | 64 | 31 |
| EM112M-4 | 4 | 5.5 | 1440 | 8.92 | 8.47 | 8.17 | 83.1 | 0.82 | 26.5 | 2.3 | 2.3 | 7 | 0.019 | 65 | 41 |
| EM132S-4 | 5.5 | 7.5 | 1440 | 11.9 | 11.3 | 10.9 | 84.7 | 0.83 | 36.5 | 2.3 | 2.3 | 7 | 0.036 | 71 | 52 |
| EM132M-4 | 7.5 | 10 | 1440 | 15.8 | 15.0 | 14.4 | 86 | 0.84 | 49.8 | 2.3 | 2.3 | 7 | 0.047 | 71 | 64 |
| EM160M-4 | 11 | 15 | 1460 | 22.7 | 21.6 | 20.8 | 87.6 | 0.84 | 72 | 2.2 | 2.3 | 7 | 0.103 | 73 | 100 |
| EM160L-4 | 15 | 20 | 1460 | 30.2 | 28.7 | 27.7 | 88.7 | 0.85 | 98.2 | 2.2 | 2.3 | 7.5 | 0.131 | 73 | 127 |
| EM180M-4 | 18.5 | 25 | 1470 | 36.6 | 34.8 | 33.5 | 89.3 | 0.86 | 120.2 | 2.2 | 2.3 | 7.5 | 0.183 | 76 | 150 |
| EM180L-4 | 22 | 30 | 1470 | 43.2 | 41.1 | 39.6 | 89.9 | 0.86 | 143 | 2.2 | 2.3 | 7.5 | 0.219 | 76 | 165 |
| EM200L-4 | 30 | 40 | 1470 | 58.4 | 55.5 | 53.5 | 90.7 | 0.86 | 195 | 2.2 | 2.3 | 7.2 | 0.297 | 76 | 226 |
| EM225S-4 | 37 | 50 | 1480 | 70.9 | 67.3 | 64.9 | 91.2 | 0.87 | 238.9 | 2.2 | 2.3 | 7.2 | 0.578 | 78 | 265 |
| EM225M-4 | 45 | 60 | 1480 | 85.7 | 81.4 | 78.5 | 91.7 | 0.87 | 290.5 | 2.2 | 2.3 | 7.2 | 0.659 | 78 | 311 |
| EM250M-4 | 55 | 75 | 1480 | 104 | 99.1 | 95.5 | 92.1 | 0.87 | 355.1 | 2.2 | 2.3 | 7.2 | 0.818 | 79 | 365 |
| EM280S-4 | 75 | 100 | 1480 | 140 | 133 | 128 | 92.7 | 0.88 | 483.9 | 2.2 | 2.3 | 6.8 | 1.571 | 80 | 480 |
| EM280M-4 | 90 | 125 | 1480 | 167 | 159 | 153 | 93 | 0.88 | 580.7 | 2.2 | 2.3 | 6.8 | 1.964 | 80 | 555 |
| EM315S-4 | 110 | 150 | 1480 | 204 | 193 | 186 | 93.3 | 0.88 | 709.8 | 2.1 | 2.2 | 6.9 | 3.247 | 88 | 845 |
| EM315M-4 | 132 | 180 | 1490 | 244 | 232 | 223 | 93.5 | 0.88 | 851.8 | 2.1 | 2.2 | 6.9 | 3.527 | 88 | 930 |
| EM315LA-4 | 160 | 220 | 1490 | 291 | 277 | 267 | 93.8 | 0.89 | 1032 | 2.1 | 2.2 | 6.9 | 4.087 | 88 | 1030 |
| EM315L-4 | 185 | 250 | 1485 | 322 | 313 | 304 | 94 | 0.9 | 1189.7 | 2.1 | 2.2 | 6.9 | 4.927 | 88 | 1090 |
| EM315LB-4 | 200 | 270 | 1490 | 359 | 345 | 329 | 94 | 0.9 | 1290 | 2.1 | 2.2 | 6.9 | 5.374 | 88 | 1150 |
| EM355MA-4 | 220 | 300 | 1485 | 395 | 375 | 362 | 94 | 0.9 | 1411 | 2.1 | 2.2 | 6.9 | 7.6 | 95 | 1600 |
| EM355MB-4 | 250 | 340 | 1485 | 449 | 427 | 411 | 94 | 0.9 | 1603 | 2.1 | 2.2 | 6.9 | 8.4 | 95 | 1680 |
| EM355LA-4 | 280 | 375 | 1485 | 503 | 478 | 460 | 94 | 0.9 | 1796 | 2.1 | 2.2 | 7.1 | 9.2 | 95 | 1790 |
| EM355L-4 | 315 | 430 | 1485 | 566 | 537 | 518 | 94 | 0.9 | 2020 | 2.1 | 2.2 | 7.1 | 9.9 | 95 | 1900 |
| EM355LB-4 | 355 | 475 | 1490 | 638 | 605 | 584 | 94 | 0.9 | 2275.3 | 2 | 2.2 | 6.9 | 11.2 | 95 | 2000 |

CAST IRON - IE1 6 POLE

| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|------------|--------------|------|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM80A-6 | 0.37 | 0.5 | 900 | 1.35 | 1.28 | 1.23 | 59.7 | 0.7 | 4 | 1.9 | 2 | 4.7 | 0.002 | 54 | 15 |
| EM80B-6 | 0.55 | 0.75 | 900 | 1.76 | 1.68 | 1.62 | 65.8 | 0.72 | 5.9 | 1.9 | 2.1 | 4.7 | 0.003 | 54 | 16 |
| EM90S-6 | 0.75 | 1 | 910 | 2.26 | 2.15 | 2.07 | 70 | 0.72 | 7.9 | 2 | 2.1 | 4.7 | 0.005 | 57 | 20 |
| EM90L-6 | 1.1 | 1.5 | 910 | 3.14 | 2.98 | 2.88 | 72.9 | 0.73 | 11.5 | 2 | 2.1 | 5.3 | 0.008 | 57 | 23 |
| EM100L-6 | 1.5 | 2 | 940 | 4.04 | 3.84 | 3.70 | 75.2 | 0.75 | 15.6 | 2 | 2.1 | 5.5 | 0.013 | 61 | 29 |
| EM112M-6 | 2.2 | 3 | 940 | 5.66 | 5.38 | 5.18 | 77.7 | 0.76 | 22.4 | 2 | 2.1 | 5.5 | 0.02 | 65 | 40 |
| EM132S-6 | 3 | 4 | 960 | 7.53 | 7.15 | 6.89 | 79.7 | 0.76 | 29.9 | 2.1 | 2.1 | 6.5 | 0.038 | 69 | 58 |
| EM132MA-6 | 4 | 5.5 | 960 | 9.82 | 9.33 | 9.00 | 81.4 | 0.76 | 39.8 | 2.1 | 2.1 | 6.5 | 0.05 | 69 | 63 |
| EM132MB-6 | 5.5 | 7.5 | 960 | 13.1 | 12.4 | 12.0 | 83.1 | 0.77 | 54.7 | 2.1 | 2.1 | 6.5 | 0.066 | 69 | 73 |
| EM160M-6 | 7.5 | 10 | 970 | 17.2 | 16.6 | 15.8 | 84.7 | 0.78 | 73.9 | 2 | 2.1 | 6.5 | 0.121 | 73 | 105 |
| EM160L-6 | 11 | 15 | 970 | 24.8 | 23.6 | 22.7 | 86.4 | 0.78 | 108.3 | 2 | 2.1 | 6.5 | 0.161 | 73 | 120 |
| EM180L-6 | 15 | 20 | 970 | 32.1 | 30.5 | 29.4 | 87.7 | 0.81 | 147.7 | 2 | 2.1 | 7 | 0.264 | 73 | 152 |
| EM200LA-6 | 18.5 | 25 | 970 | 39.2 | 37.2 | 35.9 | 88.6 | 0.81 | 182.2 | 2.1 | 2.1 | 7 | 0.407 | 73 | 200 |
| EM200LB-6 | 22 | 30 | 970 | 45.1 | 42.9 | 41.3 | 89.2 | 0.83 | 216.7 | 2 | 2.1 | 7 | 0.459 | 73 | 213 |
| EM225M-6 | 30 | 40 | 980 | 60.2 | 57.2 | 55.1 | 90.2 | 0.84 | 292.5 | 2 | 2.1 | 7 | 0.648 | 74 | 282 |
| EM250M-6 | 37 | 50 | 980 | 72.0 | 68.4 | 65.9 | 90.8 | 0.86 | 360.7 | 2.1 | 2.1 | 7 | 0.979 | 76 | 350 |
| EM280S-6 | 45 | 60 | 980 | 87.0 | 82.6 | 79.6 | 91.4 | 0.86 | 438.7 | 2.1 | 2.1 | 7 | 1.79 | 78 | 441 |
| EM280M-6 | 55 | 75 | 980 | 106 | 100 | 96.8 | 91.9 | 0.86 | 536.2 | 2.1 | 2 | 7 | 2.164 | 78 | 493 |
| EM315S-6 | 75 | 100 | 990 | 143 | 136 | 131 | 92.6 | 0.86 | 723.8 | 2 | 2 | 6.7 | 4.279 | 83 | 850 |
| EM315M-6 | 90 | 125 | 990 | 171 | 163 | 157 | 92.9 | 0.86 | 868.6 | 2 | 2 | 6.7 | 5.017 | 83 | 930 |
| EM315LA-6 | 110 | 150 | 990 | 208 | 198 | 191 | 93.3 | 0.86 | 1061.6 | 2 | 2 | 6.7 | 5.607 | 83 | 997 |
| EM315LB-6 | 132 | 180 | 990 | 247 | 234 | 226 | 93.5 | 0.87 | 1274 | 2 | 2 | 6.7 | 6.64 | 83 | 1080 |
| EM355MA-6 | 160 | 220 | 990 | 295 | 280 | 270 | 93.8 | 0.88 | 1544 | 1.9 | 2 | 6.7 | 9.6 | 85 | 1480 |
| EM355M-6 | 185 | 250 | 990 | 340 | 328 | 311 | 94 | 0.88 | 1784.6 | 2 | 2.2 | 6.8 | 10.5 | 85 | 1550 |
| EM355MB-6 | 200 | 270 | 990 | 367 | 349 | 336 | 94 | 0.88 | 1930 | 1.9 | 2 | 6.7 | 11.9 | 85 | 1600 |
| EM355LA-6 | 220 | 300 | 990 | 404 | 389 | 370 | 94 | 0.88 | 2122.2 | 2 | 2.2 | 6.8 | 12.9 | 85 | 1650 |
| EM355LB-6 | 250 | 340 | 990 | 459 | 436 | 420 | 94 | 0.88 | 2413 | 1.9 | 2 | 6.7 | 13.4 | 85 | 1700 |
| EM355LC-6 | 280 | 375 | 990 | 514 | 495 | 471 | 94 | 0.88 | 2701 | 2 | 2.2 | 6.8 | 13.9 | 85 | 1820 |
| EM355LD-6 | 315 | 430 | 990 | 579 | 557 | 530 | 94 | 0.88 | 3038.6 | 2 | 2.2 | 6.8 | 14.3 | 85 | 1950 |

CAST IRON - IE1 8 POLE

| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|------------|--------------|------|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM80A-8 | 0.18 | 0.25 | 710 | 1.18 | 1.12 | 1.08 | 38 | 0.61 | 2.8 | 1.8 | 1.9 | 3.3 | 0.002 | 52 | 13 |
| EM80B-8 | 0.25 | 0.37 | 710 | 1.43 | 1.36 | 1.31 | 43.4 | 0.61 | 3.7 | 1.8 | 1.9 | 3.3 | 0.003 | 52 | 15 |
| EM90S-8 | 0.37 | 0.5 | 720 | 1.85 | 1.76 | 1.70 | 49.7 | 0.61 | 5.4 | 1.8 | 1.9 | 4 | 0.003 | 56 | 19 |
| EM90L-8 | 0.55 | 0.75 | 720 | 2.44 | 2.32 | 2.24 | 56.1 | 0.61 | 8 | 1.8 | 2 | 4 | 0.005 | 56 | 20 |
| EM100LA-8 | 0.75 | 1 | 720 | 2.78 | 2.64 | 2.54 | 61.2 | 0.67 | 10.4 | 1.8 | 2 | 4 | 0.008 | 59 | 29 |
| EM100LB-8 | 1.1 | 1.5 | 730 | 3.64 | 3.46 | 3.34 | 66.5 | 0.69 | 15.2 | 1.8 | 2 | 5 | 0.010 | 59 | 31 |
| EM112M-8 | 1.5 | 2 | 730 | 4.64 | 4.41 | 4.25 | 70.2 | 0.7 | 20.8 | 1.8 | 2 | 5 | 0.017 | 61 | 39 |
| EM132S-8 | 2.2 | 3 | 730 | 6.34 | 6.03 | 5.81 | 74.2 | 0.71 | 29.6 | 1.8 | 2 | 6 | 0.031 | 64 | 61 |
| EM132M-8 | 3 | 4 | 730 | 8.11 | 7.70 | 7.43 | 77 | 0.73 | 40.4 | 1.8 | 2 | 6 | 0.040 | 64 | 75 |
| EM160MA-8 | 4 | 5.5 | 740 | 10.5 | 9.99 | 9.63 | 79.2 | 0.73 | 53.1 | 1.9 | 2 | 6 | 0.075 | 68 | 90 |
| EM160MB-8 | 5.5 | 7.5 | 740 | 13.9 | 13.2 | 12.7 | 81.4 | 0.74 | 73 | 1.9 | 2 | 6 | 0.093 | 68 | 103 |
| EM160L-8 | 7.5 | 10 | 740 | 18.3 | 17.4 | 16.7 | 83.1 | 0.75 | 99.5 | 1.9 | 2 | 6 | 0.126 | 68 | 120 |
| EM180L-8 | 11 | 15 | 740 | 26.2 | 24.9 | 24.0 | 85 | 0.75 | 144 | 2 | 2 | 6.5 | 0.203 | 70 | 163 |
| EM200L-8 | 15 | 20 | 740 | 34.8 | 33.0 | 31.9 | 86.2 | 0.76 | 196.3 | 2 | 2 | 6.6 | 0.339 | 73 | 225 |
| EM225S-8 | 18.5 | 25 | 740 | 42.6 | 40.4 | 39.0 | 86.9 | 0.76 | 242.1 | 1.9 | 2 | 6.6 | 0.491 | 73 | 255 |
| EM225M-8 | 22 | 30 | 740 | 49.0 | 46.6 | 44.9 | 87.4 | 0.78 | 284 | 1.9 | 2 | 6.6 | 0.547 | 73 | 275 |
| EM250M-8 | 30 | 40 | 740 | 65.3 | 62.1 | 59.8 | 88.3 | 0.79 | 387.3 | 1.9 | 2 | 6.5 | 0.830 | 75 | 350 |
| EM280S-8 | 37 | 50 | 740 | 80.1 | 76.1 | 73.4 | 88.8 | 0.79 | 477.7 | 1.9 | 2 | 6.6 | 1.390 | 76 | 470 |
| EM280M-8 | 45 | 60 | 740 | 97.0 | 92.2 | 88.8 | 89.2 | 0.79 | 581 | 1.9 | 2 | 6.6 | 1.650 | 76 | 520 |
| EM315S-8 | 55 | 75 | 740 | 115 | 109 | 105 | 89.7 | 0.81 | 710.1 | 1.8 | 2 | 6.6 | 4.790 | 82 | 810 |
| EM315M-8 | 75 | 100 | 740 | 156 | 148 | 143 | 90.3 | 0.81 | 968.3 | 1.8 | 2 | 6.2 | 5.580 | 82 | 900 |
| EM315LA-8 | 90 | 125 | 740 | 184 | 175 | 168 | 90.7 | 0.82 | 1162 | 1.8 | 2 | 6.4 | 6.370 | 82 | 980 |
| EM315LB-8 | 110 | 150 | 740 | 224 | 213 | 205 | 91.1 | 0.82 | 1420 | 1.8 | 2 | 6.4 | 7.230 | 82 | 995 |
| EM355M-8 | 132 | 180 | 740 | 267 | 254 | 245 | 91.5 | 0.82 | 1704 | 1.8 | 2 | 6.4 | 7.600 | 90 | 1700 |
| EM355MA-8 | 160 | 220 | 740 | 323 | 306 | 295 | 91.9 | 0.82 | 2066 | 1.8 | 2 | 6.4 | 11.700 | 90 | 1850 |
| EM355MB-8 | 185 | 250 | 740 | 367 | 348 | 336 | 92.5 | 0.82 | 2388 | 1.8 | 2 | 6.3 | 12.500 | 89 | 1900 |
| EM355L-8 | 200 | 270 | 740 | 396 | 376 | 362 | 92.5 | 0.83 | 2582 | 1.8 | 2 | 6.4 | 12.900 | 90 | 1930 |
| EM355LA-8 | 220 | 300 | 740 | 435 | 414 | 399 | 92.5 | 0.83 | 2839 | 1.8 | 2 | 6.4 | 13.900 | 89 | 2000 |
| EM355LB-8 | 250 | 340 | 740 | 495 | 471 | 453 | 92.5 | 0.83 | 3226 | 1.8 | 2 | 6.4 | 14.200 | 89 | 2120 |



CAST IRON - IE2 2 POLE

| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|-------------|--------------|-----|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM2-80A-2 | 0.75 | 1 | 2860 | 1.77 | 1.69 | 1.62 | 77.4 | 0.83 | 2.5 | 2.3 | 2.3 | 6.8 | 0.0012 | 62 | 16 |
| EM2-80B-2 | 1.1 | 1.5 | 2860 | 2.50 | 2.37 | 2.29 | 79.6 | 0.84 | 3.7 | 2.3 | 2.3 | 7.3 | 0.0017 | 62 | 17 |
| EM2-90S-2 | 1.5 | 2 | 2850 | 3.34 | 3.17 | 3.06 | 81.3 | 0.84 | 5.0 | 2.3 | 2.3 | 7.6 | 0.0026 | 67 | 20 |
| EM2-90L-2 | 2.2 | 3 | 2855 | 4.73 | 4.49 | 4.33 | 83.2 | 0.85 | 7.4 | 2.3 | 2.3 | 7.8 | 0.0034 | 67 | 23 |
| EM2-100L-2 | 3 | 4 | 2890 | 6.19 | 5.88 | 5.67 | 84.6 | 0.87 | 9.9 | 2.3 | 2.3 | 8.1 | 0.006 | 74 | 29 |
| EM2-112M-2 | 4 | 5.5 | 2895 | 8.05 | 7.65 | 7.37 | 85.8 | 0.88 | 13.2 | 2.3 | 2.3 | 8.3 | 0.0086 | 77 | 41 |
| EM2-132SA-2 | 5.5 | 7.5 | 2910 | 11.2 | 10.6 | 10.2 | 87 | 0.86 | 18.0 | 2.2 | 2.3 | 8 | 0.016 | 79 | 57 |
| EM2-132SB-2 | 7.5 | 10 | 2910 | 14.7 | 14.0 | 13.5 | 88.1 | 0.88 | 24.6 | 2.2 | 2.3 | 7.8 | 0.0188 | 79 | 60 |
| EM2-160MA-2 | 11 | 15 | 2940 | 21.0 | 20.0 | 19.2 | 89.4 | 0.89 | 35.7 | 2.2 | 2.3 | 7.9 | 0.0618 | 81 | 104 |
| EM2-160MB-2 | 15 | 20 | 2940 | 28.4 | 26.9 | 26.0 | 90.3 | 0.89 | 48.7 | 2.2 | 2.3 | 8 | 0.0674 | 81 | 106 |
| EM2-160L-2 | 18.5 | 25 | 2935 | 34.7 | 33.0 | 31.8 | 90.9 | 0.89 | 60.2 | 2.2 | 2.3 | 8.1 | 0.0808 | 81 | 132 |
| EM2-180M-2 | 22 | 30 | 2945 | 41.0 | 39.0 | 37.5 | 91.3 | 0.88 | 71.3 | 2.2 | 2.3 | 8.2 | 0.1003 | 83 | 155 |
| EM2-200LA-2 | 30 | 40 | 2960 | 55.5 | 52.7 | 50.8 | 92 | 0.88 | 96.8 | 2.2 | 2.3 | 7.5 | 0.189 | 84 | 217 |
| EM2-200LB-2 | 37 | 50 | 2960 | 68.3 | 64.9 | 62.5 | 92.5 | 0.89 | 119.4 | 2.2 | 2.3 | 7.5 | 0.1971 | 84 | 228 |
| EM2-225M-2 | 45 | 60 | 2970 | 82.8 | 78.6 | 75.8 | 92.9 | 0.89 | 144.7 | 2.2 | 2.3 | 7.6 | 0.3619 | 86 | 286 |
| EM2-250M-2 | 55 | 75 | 2975 | 100 | 94.6 | 91.2 | 93.2 | 0.9 | 176.6 | 2.2 | 2.3 | 7.6 | 0.4387 | 89 | 354 |
| EM2-280S-2 | 75 | 100 | 2980 | 135 | 128 | 124 | 93.8 | 0.9 | 240.4 | 2 | 2.3 | 6.9 | 0.8084 | 91 | 493 |
| EM2-280M-2 | 90 | 125 | 2980 | 161 | 153 | 147 | 94.1 | 0.91 | 288.4 | 2 | 2.3 | 7 | 0.9208 | 91 | 505 |
| EM2-315S-2 | 110 | 150 | 2980 | 196 | 186 | 179 | 94.3 | 0.91 | 352.5 | 2 | 2.2 | 7.1 | 1.693 | 92 | 870 |
| EM2-315M-2 | 132 | 180 | 2980 | 235 | 223 | 215 | 94.6 | 0.91 | 423.0 | 2 | 2.2 | 7.1 | 1.8746 | 92 | 945 |
| EM2-315LA-2 | 160 | 220 | 2980 | 283 | 269 | 259 | 94.8 | 0.92 | 512.8 | 2 | 2.2 | 7.1 | 2.2144 | 92 | 995 |
| EM2-315LB-2 | 200 | 270 | 2975 | 350 | 333 | 320 | 95 | 0.92 | 642.0 | 2 | 2.2 | 7.1 | 2.5171 | 92 | 1120 |
| EM2-355MB-2 | 250 | 340 | 2980 | 438 | 416 | 401 | 95 | 0.92 | 801.2 | 2 | 2.2 | 7.1 | 3.8265 | 100 | 1890 |
| EM2-355L-2 | 315 | 430 | 2980 | 551 | 523 | 505 | 95 | 0.92 | 1009.5 | 2 | 2.2 | 7.1 | 4.5516 | 100 | 2235 |

CAST IRON - IE2 4 POLE

| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|-------------|--------------|-----|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM2-80B-4 | 0.75 | 1 | 1425 | 1.88 | 1.79 | 1.72 | 79.6 | 0.76 | 5.0 | 2.3 | 2.3 | 6.5 | 0.0036 | 56 | 16.9 |
| EM2-90S-4 | 1.1 | 1.5 | 1420 | 2.67 | 2.53 | 2.44 | 81.4 | 0.77 | 7.4 | 2.3 | 2.3 | 6.6 | 0.0044 | 59 | 20 |
| EM2-90L-4 | 1.5 | 2 | 1425 | 3.57 | 3.40 | 3.27 | 82.8 | 0.77 | 10.1 | 2.3 | 2.3 | 6.9 | 0.0056 | 59 | 24 |
| EM2-100LA-4 | 2.2 | 3 | 1440 | 4.90 | 4.65 | 4.48 | 84.3 | 0.81 | 14.6 | 2.3 | 2.3 | 7.5 | 0.0109 | 64 | 31 |
| EM2-100LB-4 | 3 | 4 | 1445 | 6.50 | 6.18 | 5.95 | 85.5 | 0.82 | 19.8 | 2.3 | 2.3 | 7.6 | 0.0144 | 64 | 33 |
| EM2-112M-4 | 4 | 5.5 | 1440 | 8.56 | 8.13 | 7.84 | 86.6 | 0.82 | 26.5 | 2.3 | 2.3 | 7.7 | 0.0171 | 65 | 43 |
| EM2-132S-4 | 5.5 | 7.5 | 1450 | 11.5 | 10.9 | 10.5 | 87.7 | 0.83 | 36.2 | 2.2 | 2.3 | 7.5 | 0.0385 | 71 | 55 |
| EM2-132M-4 | 7.5 | 10 | 1455 | 15.3 | 14.5 | 14.0 | 88.7 | 0.84 | 49.2 | 2.2 | 2.3 | 7.4 | 0.0514 | 71 | 68 |
| EM2-160M-4 | 11 | 15 | 1465 | 22.2 | 21.0 | 20.3 | 89.8 | 0.84 | 71.7 | 2.2 | 2.3 | 7.5 | 0.1076 | 73 | 106 |
| EM2-160L-4 | 15 | 20 | 1465 | 29.6 | 28.1 | 27.1 | 90.6 | 0.85 | 97.8 | 2.2 | 2.3 | 7.5 | 0.139 | 73 | 134 |
| EM2-180M-4 | 18.5 | 25 | 1470 | 35.8 | 34.0 | 32.8 | 91.2 | 0.86 | 120.2 | 2.2 | 2.3 | 7.7 | 0.1913 | 76 | 158 |
| EM2-180L-4 | 22 | 30 | 1475 | 42.4 | 40.3 | 38.9 | 91.6 | 0.86 | 142.4 | 2.2 | 2.3 | 7.8 | 0.2192 | 76 | 174 |
| EM2-200L-4 | 30 | 40 | 1475 | 57.4 | 54.6 | 52.6 | 92.3 | 0.86 | 194.2 | 2.2 | 2.3 | 7.2 | 0.3187 | 76 | 239 |
| EM2-225S-4 | 37 | 50 | 1480 | 69.7 | 66.2 | 63.8 | 92.7 | 0.87 | 238.8 | 2.2 | 2.3 | 7.3 | 0.6463 | 78 | 280 |
| EM2-225M-4 | 45 | 60 | 1485 | 84.4 | 80.2 | 77.3 | 93.1 | 0.87 | 289.4 | 2.2 | 2.3 | 7.4 | 0.7547 | 78 | 328 |
| EM2-250M-4 | 55 | 75 | 1480 | 103 | 97.6 | 94.1 | 93.5 | 0.87 | 354.9 | 2.2 | 2.3 | 7.4 | 0.9344 | 79 | 385 |
| EM2-280S-4 | 75 | 100 | 1485 | 139 | 132 | 128 | 94 | 0.87 | 482.3 | 2.2 | 2.3 | 6.7 | 1.7867 | 80 | 500 |
| EM2-280M-4 | 90 | 125 | 1490 | 167 | 159 | 153 | 94.2 | 0.87 | 576.8 | 2.2 | 2.3 | 6.9 | 2.1229 | 80 | 577 |
| EM2-315S-4 | 110 | 150 | 1490 | 201 | 191 | 184 | 94.5 | 0.88 | 705.0 | 2.2 | 2.2 | 6.9 | 3.8188 | 88 | 867 |
| EM2-315M-4 | 132 | 180 | 1485 | 241 | 229 | 220 | 94.7 | 0.88 | 848.9 | 2.2 | 2.2 | 6.9 | 3.8306 | 88 | 953 |
| EM2-315LA-4 | 160 | 220 | 1485 | 288 | 273 | 264 | 94.9 | 0.89 | 1029.0 | 2.2 | 2.2 | 6.9 | 4.6727 | 88 | 1055 |
| EM2-315LB-4 | 200 | 270 | 1485 | 357 | 341 | 329 | 95.1 | 0.89 | 1286.2 | 2.2 | 2.2 | 6.9 | 5.3463 | 88 | 1179 |
| EM2-355MB-4 | 250 | 340 | 1490 | 444 | 422 | 406 | 95.1 | 0.9 | 1602.3 | 2.2 | 2.2 | 6.9 | 8.2188 | 95 | 1715 |
| EM2-355L-4 | 315 | 430 | 1490 | 559 | 531 | 512 | 95.1 | 0.9 | 2019.0 | 2.2 | 2.2 | 6.9 | 10.5146 | 95 | 1940 |

CAST IRON - IE2 6 POLE

| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|-------------|--------------|-----|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM2-90S-6 | 0.75 | 1 | 935 | 2.09 | 1.98 | 1.91 | 75.9 | 0.72 | 7.7 | 2.1 | 2.1 | 5.8 | 0.0057 | 57 | 21 |
| EM2-90L-6 | 1.1 | 1.5 | 940 | 2.97 | 2.82 | 2.72 | 78.1 | 0.72 | 11.2 | 2.1 | 2.1 | 5.9 | 0.0072 | 57 | 24 |
| EM2-100L-6 | 1.5 | 2 | 950 | 3.81 | 3.62 | 3.49 | 79.8 | 0.75 | 15.1 | 2.1 | 2.1 | 6.0 | 0.0144 | 61 | 31 |
| EM2-112M-6 | 2.2 | 3 | 950 | 5.38 | 5.11 | 4.92 | 81.8 | 0.76 | 22.1 | 2 | 2.1 | 6.0 | 0.0229 | 65 | 42 |
| EM2-132S-6 | 3 | 4 | 960 | 7.20 | 6.84 | 6.59 | 83.3 | 0.76 | 29.8 | 2 | 2.1 | 6.2 | 0.039 | 69 | 61 |
| EM2-132MA-6 | 4 | 5.5 | 960 | 9.70 | 8.98 | 8.66 | 84.6 | 0.76 | 39.8 | 2 | 2.1 | 6.8 | 0.0499 | 69 | 67 |
| EM2-132MB-6 | 5.5 | 7.5 | 965 | 12.9 | 12.0 | 11.6 | 86 | 0.77 | 54.4 | 2 | 2.1 | 7.1 | 0.0714 | 69 | 77 |
| EM2-160M-6 | 7.5 | 10 | 970 | 16.8 | 15.9 | 15.3 | 87.2 | 0.78 | 73.8 | 2.1 | 2.1 | 6.7 | 0.1248 | 73 | 111 |
| EM2-160L-6 | 11 | 15 | 970 | 24.2 | 22.9 | 22.1 | 88.7 | 0.78 | 108.3 | 2.1 | 2.1 | 6.9 | 0.18 | 73 | 127 |
| EM2-180L-6 | 15 | 20 | 975 | 31.4 | 29.8 | 28.7 | 89.7 | 0.81 | 146.9 | 2 | 2.1 | 7.2 | 0.3415 | 73 | 160 |
| EM2-200LA-6 | 18.5 | 25 | 980 | 38.4 | 36.5 | 35.1 | 90.4 | 0.81 | 180.3 | 2.1 | 2.1 | 7.2 | 0.4894 | 73 | 211 |
| EM2-200LB-6 | 22 | 30 | 980 | 45.0 | 42.1 | 40.6 | 90.9 | 0.83 | 214.4 | 2.1 | 2.1 | 7.3 | 0.552 | 73 | 225 |
| EM2-225M-6 | 30 | 40 | 985 | 59.2 | 56.2 | 54.2 | 91.7 | 0.84 | 290.9 | 2 | 2.1 | 7.1 | 0.7063 | 74 | 298 |
| EM2-250M-6 | 37 | 50 | 985 | 71.9 | 67.4 | 64.9 | 92.2 | 0.86 | 358.7 | 2.1 | 2.1 | 7.1 | 1.1189 | 76 | 369 |
| EM2-280S-6 | 45 | 60 | 985 | 86.6 | 81.5 | 78.5 | 92.7 | 0.86 | 436.3 | 2.1 | 2 | 7.2 | 2.1645 | 78 | 462 |
| EM2-280M-6 | 55 | 75 | 985 | 104 | 99.2 | 95.6 | 93.1 | 0.86 | 533.2 | 2.1 | 2 | 7.2 | 2.6692 | 78 | 515 |
| EM2-315S-6 | 75 | 100 | 990 | 141 | 134 | 129 | 93.7 | 0.86 | 723.5 | 2 | 2 | 6.7 | 4.11 | 83 | 873 |
| EM2-315M-6 | 90 | 125 | 990 | 169 | 161 | 155 | 94 | 0.86 | 868.2 | 2 | 2 | 6.7 | 4.8746 | 83 | 954 |
| EM2-315LA-6 | 110 | 150 | 990 | 206 | 196 | 189 | 94.3 | 0.86 | 1061.1 | 2 | 2 | 6.7 | 5.9125 | 83 | 1024 |
| EM2-315LB-6 | 132 | 180 | 990 | 246 | 232 | 223 | 94.6 | 0.87 | 1273.3 | 2 | 2 | 6.7 | 6.9504 | 83 | 1108 |
| EM2-355MA-6 | 160 | 220 | 990 | 291 | 277 | 267 | 94.8 | 0.88 | 1543.4 | 2 | 2 | 6.7 | 9.9993 | 85 | 1511 |
| EM2-355MB-6 | 200 | 270 | 990 | 366 | 345 | 333 | 95 | 0.88 | 1929.3 | 2 | 2 | 6.7 | 11.1898 | 85 | 1633 |
| EM2-355LB-6 | 250 | 340 | 990 | 458 | 432 | 416 | 95 | 0.88 | 2411.6 | 2 | 2 | 6.7 | 14.0614 | 85 | 1735 |

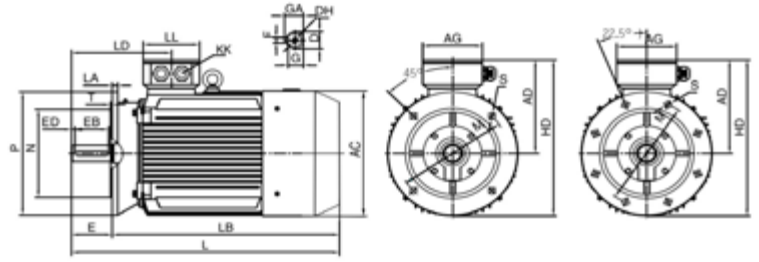
CAST IRON - IE2 8 POLE

| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|-------------|--------------|-----|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM2-100LA-8 | 0.75 | 1 | 690 | 2.57 | 2.44 | 2.35 | 66.2 | 0.67 | 10.4 | 1.8 | 2 | 6.1 | 0.008 | 59 | 31 |
| EM2-100LB-8 | 1.1 | 1.5 | 690 | 3.42 | 3.25 | 3.13 | 70.8 | 0.69 | 15.2 | 1.8 | 2 | 6.1 | 0.01 | 59 | 33 |
| EM2-112M-8 | 1.5 | 2 | 690 | 4.39 | 4.17 | 4.02 | 74.1 | 0.7 | 20.8 | 1.8 | 2 | 6.4 | 0.017 | 61 | 41 |
| EM2-132S-8 | 2.2 | 3 | 710 | 6.07 | 5.76 | 5.56 | 77.6 | 0.71 | 29.6 | 1.8 | 2 | 6.4 | 0.0131 | 64 | 64 |
| EM2-132M-8 | 3 | 4 | 710 | 7.81 | 7.41 | 7.15 | 80 | 0.73 | 40.4 | 1.8 | 2 | 6.8 | 0.04 | 64 | 79 |
| EM2-160MA-8 | 4 | 5.5 | 720 | 10.2 | 9.66 | 9.31 | 81.9 | 0.73 | 53.1 | 1.9 | 2 | 6.8 | 0.075 | 68 | 95 |
| EM2-160MB-8 | 5.5 | 7.5 | 720 | 13.5 | 12.8 | 12.3 | 83.8 | 0.74 | 73 | 1.9 | 2 | 6.7 | 0.093 | 68 | 109 |
| EM2-160L-8 | 7.5 | 10 | 720 | 17.8 | 16.9 | 16.3 | 85.3 | 0.75 | 99.5 | 1.9 | 2 | 6.4 | 0.126 | 68 | 127 |
| EM2-180L-8 | 11 | 15 | 730 | 25.6 | 24.4 | 23.5 | 86.9 | 0.75 | 144 | 2 | 2 | 6.5 | 0.203 | 70 | 172 |
| EM2-200L-8 | 15 | 20 | 730 | 34.1 | 32.4 | 31.2 | 88 | 0.76 | 196.3 | 2 | 2 | 6.6 | 0.339 | 73 | 238 |
| EM2-225S-8 | 18.5 | 25 | 730 | 41.7 | 39.7 | 38.2 | 88.6 | 0.76 | 242.1 | 1.9 | 2 | 6.6 | 0.491 | 73 | 269 |
| EM2-225M-8 | 22 | 30 | 740 | 48.1 | 45.7 | 44.0 | 89.1 | 0.78 | 284 | 1.9 | 2 | 6.6 | 0.547 | 73 | 290 |
| EM2-250M-8 | 30 | 40 | 740 | 64.3 | 61.0 | 58.8 | 89.8 | 0.79 | 387.3 | 1.9 | 2 | 6.5 | 0.83 | 75 | 369 |
| EM2-280S-8 | 37 | 50 | 740 | 78.8 | 74.9 | 72.2 | 90.3 | 0.79 | 477.7 | 1.9 | 2 | 6.5 | 1.39 | 76 | 491 |
| EM2-280M-8 | 45 | 60 | 740 | 95.4 | 90.7 | 87.4 | 90.7 | 0.79 | 581 | 1.9 | 2 | 6.5 | 1.65 | 76 | 544 |
| EM2-315S-8 | 55 | 75 | 740 | 113 | 108 | 104 | 91 | 0.81 | 710.1 | 1.8 | 2 | 6.6 | 4.79 | 82 | 833 |
| EM2-315M-8 | 75 | 100 | 740 | 154 | 146 | 141 | 91.6 | 0.81 | 968.3 | 1.8 | 2 | 6.1 | 5.58 | 82 | 924 |
| EM2-315LA-8 | 90 | 125 | 740 | 181 | 172 | 166 | 91.9 | 0.82 | 1162 | 1.8 | 2 | 6.2 | 6.37 | 82 | 1008 |
| EM2-315LB-8 | 110 | 150 | 740 | 221 | 210 | 202 | 92.3 | 0.82 | 1420 | 1.8 | 2 | 6.3 | 7.23 | 82 | 1022 |
| EM2-355M-8 | 132 | 180 | 740 | 264 | 251 | 242 | 92.6 | 0.82 | 1704 | 1.8 | 2 | 6.3 | 7.6 | 90 | 1735 |
| EM2-355MA-8 | 160 | 220 | 740 | 319 | 303 | 292 | 93 | 0.82 | 2066 | 1.8 | 2 | 6.3 | 11.7 | 90 | 1889 |
| EM2-355L-8 | 200 | 270 | 740 | 392 | 372 | 359 | 93.5 | 0.83 | 2582 | 1.8 | 2 | 6.3 | 12.5 | 90 | 1970 |

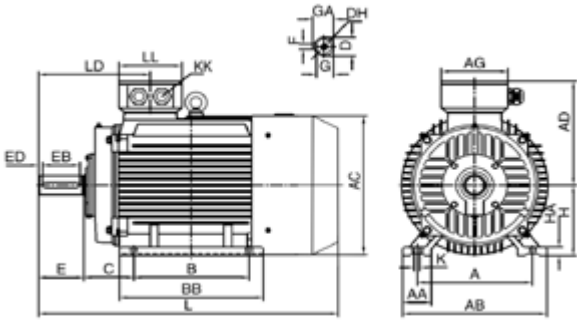
DIMENSIONAL DRAWING

CAST IRON - IE3 & IE4

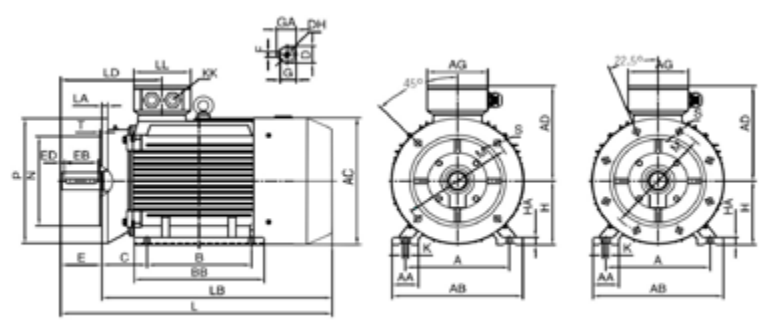
*all dimenions are measured in mm



FLANGE MOUNTED B5



FOOT MOUNTED B3



FOOT & FLANGE MOUNTED B35

| Frame Size | A | AA | AB | AC | AD | AG | B | BB | C | D | DH | E | EB | ED | F | G | GA | H | HA | K | KK | L | LA | LB | LD | LL | M | N | P | S | T | |
|------------|-------|-----|-----|-----|-----|-----|---------|---------|-----|-----|--------|--------|-----|-----|----|------|------|------|------|------|---------|---------|------|---------|------|-----|-----|-----|-----|------|------|---|
| 80 | 125 | 34 | 160 | 175 | 150 | 118 | 100 | 130 | 50 | 19 | M6X16 | 40 | 22 | 5 | 6 | 15.5 | 21.5 | 80 | 10 | 10 | M20*1.5 | 295 | 12 | 255 | 140 | 118 | 165 | 130 | 200 | 12 | 3.5 | |
| 90S/L | 140 | 36 | 180 | 190 | 165 | 118 | 100/125 | 135/160 | 56 | 24 | M8X19 | 50 | 32 | 5 | 8 | 20 | 27 | 90 | 12.5 | 10 | M20*1.5 | 320/345 | 12 | 270/295 | 156 | 118 | 165 | 130 | 200 | 12 | 3.5 | |
| 100 | 160 | 40 | 200 | 215 | 170 | 118 | 140 | 182 | 63 | 28 | M10X22 | 60 | 40 | 5 | 8 | 24 | 31 | 100 | 14 | 12 | M25*1.5 | 345 | 14 | 285 | 193 | 118 | 215 | 180 | 250 | 14.5 | 4 | |
| 112 | 190 | 45 | 230 | 236 | 187 | 118 | 140 | 195 | 70 | 28 | M10X22 | 60 | 40 | 5 | 8 | 24 | 31 | 112 | 14 | 12 | M25*1.5 | 385 | 14 | 325 | 200 | 118 | 215 | 180 | 250 | 14.5 | 4 | |
| 132S/M | 216 | 52 | 265 | 275 | 215 | 118 | 140/178 | 205/245 | 89 | 38 | M12X28 | 80 | 56 | 5 | 10 | 33 | 41 | 132 | 16 | 12 | M25*1.5 | 410/480 | 14 | 330/400 | 239 | 118 | 265 | 230 | 300 | 14.5 | 4 | |
| 160M/L | 254 | 67 | 320 | 330 | 265 | 183 | 210/254 | 260/305 | 108 | 42 | M16X36 | 110 | 80 | 7.5 | 12 | 37 | 45 | 160 | 19 | 14.5 | M32*1.5 | 610/655 | 15 | 500/545 | 270 | 185 | 300 | 250 | 350 | 18.5 | 5 | |
| 180M/L | 279 | 74 | 350 | 380 | 280 | 183 | 241/279 | 297/335 | 121 | 48 | M16X36 | 110 | 80 | 7.5 | 14 | 42.5 | 51.5 | 180 | 22 | 14.5 | M32*1.5 | 680/720 | 15 | 570/610 | 277 | 185 | 300 | 250 | 350 | 18.5 | 5 | |
| 200L | 318 | 85 | 395 | 420 | 315 | 249 | 305 | 370 | 133 | 55 | M20X42 | 100 | 90 | 7.5 | 16 | 49 | 59 | 200 | 25 | 18.5 | M40*1.5 | 760 | 17 | 660 | 298 | 210 | 350 | 300 | 400 | 18.5 | 5 | |
| 225S | 4,6,8 | 356 | 80 | 436 | 465 | 325 | 249 | 286 | 355 | 149 | 60 | M20X42 | 140 | 80 | 10 | 18 | 53 | 64 | 225 | 28 | 18.5 | M40*1.5 | 825 | 19 | 685 | 338 | 210 | 400 | 350 | 450 | 18.5 | 5 |
| 225M | 2 | 356 | 80 | 436 | 465 | 325 | 249 | 311 | 380 | 149 | 55 | M20X42 | 110 | 100 | 10 | 16 | 49 | 59 | 225 | 28 | 18.5 | M40*1.5 | 820 | 19 | 710 | 338 | 210 | 400 | 350 | 450 | 18.5 | 5 |
| 225M | 4,6,8 | 356 | 80 | 436 | 465 | 325 | 249 | 311 | 380 | 149 | 60 | M20X42 | 140 | 100 | 10 | 18 | 53 | 64 | 225 | 28 | 18.5 | M40*1.5 | 850 | 19 | 710 | 338 | 210 | 400 | 350 | 450 | 18.5 | 5 |
| 250M | 2 | 406 | 88 | 495 | 520 | 370 | 275 | 349 | 440 | 168 | 60 | M20X42 | 140 | 100 | 10 | 18 | 53 | 64 | 250 | 33 | 24 | M50*1.5 | 925 | 20 | 785 | 360 | 238 | 500 | 450 | 550 | 18.5 | 5 |
| 250M | 4,6,8 | 406 | 88 | 495 | 520 | 370 | 275 | 349 | 440 | 168 | 65 | M20X42 | 140 | 100 | 10 | 18 | 58 | 69 | 250 | 33 | 24 | M50*1.5 | 925 | 20 | 785 | 360 | 238 | 500 | 450 | 550 | 18.5 | 5 |
| 280S/M | 2 | 457 | 109 | 550 | 570 | 405 | 275 | 368/419 | 535 | 190 | 65 | M20X42 | 140 | 100 | 10 | 18 | 58 | 69 | 280 | 35 | 24 | M50*1.5 | 975 | 22 | 835 | 344 | 238 | 500 | 450 | 550 | 18.5 | 5 |
| 280S/M | 4,6,8 | 457 | 109 | 550 | 570 | 405 | 275 | 368/419 | 535 | 190 | 75 | M20X42 | 140 | 100 | 10 | 20 | 67.5 | 79.5 | 280 | 35 | 24 | M50*1.5 | 1000 | 22 | 860 | 344 | 238 | 500 | 450 | 550 | 18.5 | 5 |
| 315S | 2 | 508 | 120 | 635 | 650 | 505 | 460 | 406 | 515 | 216 | 65 | M20X42 | 140 | 100 | 10 | 18 | 58 | 69 | 315 | 45 | 28 | M63*1.5 | 1160 | 24 | 1020 | 417 | 317 | 600 | 550 | 660 | 24 | 6 |
| 315S | 4,6,8 | 508 | 120 | 635 | 650 | 505 | 460 | 406 | 515 | 216 | 80 | M20X42 | 170 | 140 | 10 | 22 | 71 | 85 | 315 | 45 | 28 | M63*1.5 | 1270 | 24 | 1100 | 417 | 317 | 600 | 550 | 660 | 24 | 6 |
| 315M/L | 2 | 508 | 120 | 635 | 650 | 505 | 460 | 457/508 | 625 | 216 | 65 | M20X42 | 140 | 100 | 10 | 18 | 58 | 69 | 315 | 45 | 28 | M63*1.5 | 1270 | 24 | 1130 | 417 | 317 | 600 | 550 | 660 | 24 | 6 |
| 315M/L | 4,6,8 | 508 | 120 | 635 | 650 | 505 | 460 | 457/508 | 625 | 216 | 80 | M20X42 | 170 | 140 | 10 | 22 | 71 | 85 | 315 | 45 | 28 | M63*1.5 | 1300 | 24 | 1130 | 417 | 317 | 600 | 550 | 660 | 24 | 6 |
| 355M/L | 2 | 610 | 125 | 735 | 735 | 645 | 600 | 560/630 | 775 | 254 | 75 | M20X42 | 140 | 100 | 10 | 20 | 67.5 | 79.5 | 355 | 49 | 28 | M63*1.5 | 1530 | 25 | 1390 | 450 | 400 | 740 | 680 | 800 | 24 | 6 |
| 355M/L | 4,6,8 | 610 | 125 | 735 | 735 | 645 | 600 | 560/630 | 775 | 254 | 95 | M20X42 | 170 | 140 | 10 | 25 | 86 | 100 | 355 | 49 | 28 | M63*1.5 | 1570 | 25 | 1400 | 450 | 400 | 740 | 680 | 800 | 24 | 6 |

CAST IRON - IE3 2 POLE

| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|-------------|--------------|-----|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM3-80A-2 | 0.75 | 1 | 2855 | 1.72 | 1.64 | 1.58 | 80.7 | 0.82 | 2.5 | 2.3 | 2.3 | 6.8 | 0.001 | 62 | 17 |
| EM3-80B-2 | 1.1 | 1.5 | 2860 | 2.43 | 2.31 | 2.23 | 82.7 | 0.83 | 3.7 | 2.3 | 2.3 | 7.3 | 0.0013 | 62 | 18 |
| EM3-90S-2 | 1.5 | 2 | 2865 | 3.22 | 3.06 | 2.95 | 84.2 | 0.84 | 5.0 | 2.3 | 2.3 | 7.6 | 0.0024 | 67 | 23 |
| EM3-90L-2 | 2.2 | 3 | 2870 | 4.58 | 4.35 | 4.19 | 85.9 | 0.85 | 7.3 | 2.3 | 2.3 | 7.8 | 0.0028 | 67 | 26 |
| EM3-100L-2 | 3 | 4 | 2890 | 6.02 | 5.71 | 5.51 | 87.1 | 0.87 | 9.9 | 2.3 | 2.3 | 8.1 | 0.0074 | 74 | 32 |
| EM3-112M-2 | 4 | 5.5 | 2900 | 7.84 | 7.45 | 7.18 | 88.1 | 0.88 | 13.2 | 2.3 | 2.3 | 8.3 | 0.0085 | 77 | 45 |
| EM3-132SA-2 | 5.5 | 7.5 | 2910 | 10.6 | 10.1 | 9.75 | 89.2 | 0.88 | 18.0 | 2.2 | 2.3 | 8 | 0.0209 | 79 | 63 |
| EM3-132SB-2 | 7.5 | 10 | 2910 | 14.4 | 13.7 | 13.2 | 90.1 | 0.88 | 24.6 | 2.2 | 2.3 | 7.8 | 0.0285 | 79 | 67 |
| EM3-160MA-2 | 11 | 15 | 2930 | 20.6 | 19.6 | 18.9 | 91.2 | 0.89 | 35.9 | 2.2 | 2.3 | 7.9 | 0.0536 | 81 | 115 |
| EM3-160MB-2 | 15 | 20 | 2930 | 27.9 | 26.5 | 25.5 | 91.9 | 0.89 | 48.9 | 2.2 | 2.3 | 8 | 0.058 | 81 | 118 |
| EM3-160L-2 | 18.5 | 25 | 2935 | 34.2 | 32.5 | 31.3 | 92.4 | 0.89 | 60.2 | 2.2 | 2.3 | 8.1 | 0.0674 | 81 | 147 |
| EM3-180M-2 | 22 | 30 | 2940 | 40.5 | 38.5 | 37.1 | 92.7 | 0.89 | 71.5 | 2.2 | 2.3 | 8.2 | 0.1505 | 83 | 173 |
| EM3-200LA-2 | 30 | 40 | 2950 | 54.9 | 52.1 | 50.3 | 93.3 | 0.89 | 97.1 | 2.2 | 2.3 | 7.5 | 0.2064 | 84 | 241 |
| EM3-200LB-2 | 37 | 50 | 2950 | 67.4 | 64.0 | 61.7 | 93.7 | 0.89 | 119.8 | 2.2 | 2.3 | 7.5 | 0.2249 | 84 | 257 |
| EM3-225M-2 | 45 | 60 | 2970 | 80.8 | 76.8 | 74.0 | 94 | 0.9 | 144.7 | 2.2 | 2.3 | 7.6 | 0.52 | 86 | 318 |
| EM3-250M-2 | 55 | 75 | 2975 | 98 | 93.5 | 90.2 | 94.3 | 0.9 | 176.6 | 2.2 | 2.3 | 7.6 | 0.5554 | 89 | 394 |
| EM3-280S-2 | 75 | 100 | 2975 | 134 | 127 | 122 | 94.7 | 0.9 | 240.8 | 2.0 | 2.3 | 6.9 | 1.25 | 91 | 535 |
| EM3-280M-2 | 90 | 125 | 2975 | 160 | 152 | 146 | 95 | 0.9 | 288.9 | 2.0 | 2.3 | 7 | 1.42 | 91 | 548 |
| EM3-315S-2 | 110 | 150 | 2980 | 195 | 185 | 179 | 95.2 | 0.9 | 352.5 | 2.0 | 2.2 | 7.1 | 1.53 | 92 | 914 |
| EM3-315M-2 | 132 | 180 | 2980 | 234 | 222 | 214 | 95.4 | 0.9 | 423.0 | 2.0 | 2.2 | 7.1 | 1.78 | 92 | 993 |
| EM3-315LA-2 | 160 | 220 | 2980 | 279 | 265 | 256 | 95.6 | 0.91 | 512.8 | 2.0 | 2.2 | 7.1 | 2.16 | 92 | 1049 |
| EM3-315L-2 | 185 | 250 | 2980 | 323 | 307 | 296 | 95.8 | 0.91 | 592.9 | 1.8 | 2.3 | 7.1 | 2.481 | 92 | 1140 |
| EM3-315LB-2 | 200 | 270 | 2980 | 349 | 331 | 319 | 95.8 | 0.91 | 640.9 | 2.0 | 2.2 | 7.1 | 4.54 | 92 | 1180 |
| EM3-355MB-2 | 250 | 340 | 2980 | 436 | 414 | 399 | 95.8 | 0.91 | 801.2 | 2.0 | 2.2 | 7.1 | 6.31 | 100 | 1969 |
| EM3-355L-2 | 315 | 430 | 2980 | 549 | 522 | 503 | 95.8 | 0.91 | 1009.5 | 2.0 | 2.2 | 7.1 | 6.97 | 100 | 2328 |

CAST IRON - IE3 4 POLE

| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|-------------|--------------|-----|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM3-80B-4 | 0.75 | 1 | 1420 | 1.84 | 1.75 | 1.69 | 82.5 | 0.75 | 5.0 | 2.3 | 2.3 | 6.5 | 0.0035 | 56 | 18 |
| EM3-90S-4 | 1.1 | 1.5 | 1425 | 2.61 | 2.48 | 2.39 | 84.1 | 0.76 | 7.4 | 2.3 | 2.3 | 6.6 | 0.0046 | 59 | 21 |
| EM3-90L-4 | 1.5 | 2 | 1425 | 3.47 | 3.30 | 3.18 | 85.3 | 0.77 | 10.1 | 2.3 | 2.3 | 6.9 | 0.005 | 59 | 26 |
| EM3-100LA-4 | 2.2 | 3 | 1440 | 4.76 | 4.52 | 4.36 | 86.7 | 0.81 | 14.6 | 2.3 | 2.3 | 7.5 | 0.0105 | 64 | 32 |
| EM3-100LB-4 | 3 | 4 | 1440 | 6.34 | 6.02 | 5.80 | 87.7 | 0.82 | 19.9 | 2.3 | 2.3 | 7.6 | 0.0146 | 64 | 34 |
| EM3-112M-4 | 4 | 5.5 | 1440 | 8.37 | 7.95 | 7.66 | 88.6 | 0.82 | 26.5 | 2.3 | 2.3 | 7.7 | 0.0188 | 65 | 46 |
| EM3-132S-4 | 5.5 | 7.5 | 1450 | 11.2 | 10.7 | 10.3 | 89.6 | 0.83 | 36.2 | 2 | 2.3 | 7.5 | 0.0543 | 71 | 58 |
| EM3-132M-4 | 7.5 | 10 | 1450 | 15.0 | 14.3 | 13.7 | 90.4 | 0.84 | 49.4 | 2.2 | 2.3 | 7.4 | 0.065 | 71 | 71 |
| EM3-160M-4 | 11 | 15 | 1465 | 21.5 | 20.4 | 19.7 | 91.4 | 0.85 | 71.7 | 2.2 | 2.3 | 7.5 | 0.11 | 73 | 111 |
| EM3-160L-4 | 15 | 20 | 1470 | 28.8 | 27.3 | 26.3 | 92.1 | 0.86 | 97.4 | 2.2 | 2.3 | 7.5 | 0.1306 | 73 | 141 |
| EM3-180M-4 | 18.5 | 25 | 1470 | 35.3 | 33.5 | 32.3 | 92.6 | 0.86 | 120.2 | 2.2 | 2.3 | 7.7 | 0.179 | 76 | 167 |
| EM3-180L-4 | 22 | 30 | 1475 | 41.8 | 39.7 | 38.3 | 93 | 0.86 | 142.4 | 2.2 | 2.3 | 7.8 | 0.246 | 76 | 183 |
| EM3-200L-4 | 30 | 40 | 1475 | 56.6 | 53.8 | 51.9 | 93.6 | 0.86 | 194.2 | 2.2 | 2.3 | 7.2 | 0.3865 | 76 | 251 |
| EM3-225S-4 | 37 | 50 | 1480 | 69.6 | 66.1 | 63.7 | 93.9 | 0.86 | 238.8 | 2.2 | 2.3 | 7.3 | 0.7004 | 78 | 294 |
| EM3-225M-4 | 45 | 60 | 1485 | 84.4 | 80.2 | 77.3 | 94.2 | 0.86 | 289.4 | 2.2 | 2.3 | 7.4 | 0.8412 | 78 | 346 |
| EM3-250M-4 | 55 | 75 | 1485 | 103 | 97.6 | 94.1 | 94.6 | 0.86 | 353.7 | 2.2 | 2.3 | 7.4 | 1.16 | 79 | 406 |
| EM3-280S-4 | 75 | 100 | 1485 | 136 | 129 | 125 | 95 | 0.88 | 482.3 | 2.2 | 2.3 | 6.7 | 2.18 | 80 | 520 |
| EM3-280M-4 | 90 | 125 | 1485 | 163 | 155 | 149 | 95.2 | 0.88 | 578.8 | 2.2 | 2.3 | 6.9 | 2.79 | 80 | 598 |
| EM3-315S-4 | 110 | 150 | 1485 | 197 | 187 | 180 | 95.4 | 0.89 | 707.4 | 2.2 | 2.2 | 6.9 | 3.25 | 88 | 888 |
| EM3-315M-4 | 132 | 180 | 1490 | 236 | 224 | 216 | 95.6 | 0.89 | 846.0 | 2.2 | 2.2 | 6.9 | 3.78 | 88 | 975 |
| EM3-315LA-4 | 160 | 220 | 1490 | 285 | 271 | 261 | 95.8 | 0.89 | 1025.5 | 2.2 | 2.2 | 6.9 | 3.79 | 88 | 1080 |
| EM3-315LB-4 | 200 | 270 | 1490 | 352 | 334 | 322 | 96 | 0.9 | 1281.9 | 2.2 | 2.2 | 6.9 | 6.95 | 88 | 1208 |
| EM3-355MB-4 | 250 | 340 | 1490 | 440 | 418 | 403 | 96 | 0.9 | 1602.3 | 2.2 | 2.2 | 6.9 | 8.44 | 95 | 1750 |
| EM3-355L-4 | 315 | 430 | 1490 | 554 | 526 | 507 | 96 | 0.9 | 2019.0 | 2.2 | 2.2 | 6.9 | 11.3 | 95 | 1979 |

CAST IRON - IE3 6 POLE

| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|-------------|--------------|-----|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM3-90S-6 | 0.75 | 1 | 945 | 2.03 | 1.93 | 1.86 | 78.9 | 0.71 | 7.6 | 2.1 | 2.1 | 5.8 | 0.0055 | 57 | 22 |
| EM3-90L-6 | 1.1 | 1.5 | 945 | 2.83 | 2.69 | 2.59 | 81 | 0.73 | 11.1 | 2.1 | 2.1 | 5.9 | 0.007 | 57 | 26 |
| EM3-100L-6 | 1.5 | 2 | 955 | 3.78 | 3.60 | 3.47 | 82.5 | 0.73 | 15.0 | 2.1 | 2.1 | 6 | 0.0128 | 61 | 32 |
| EM3-112M-6 | 2.2 | 3 | 955 | 5.36 | 5.09 | 4.91 | 84.3 | 0.74 | 22.0 | 2 | 2.1 | 6 | 0.0225 | 65 | 44 |
| EM3-132S-6 | 3 | 4 | 965 | 7.20 | 6.84 | 6.59 | 85.6 | 0.74 | 29.7 | 2 | 2.1 | 6.2 | 0.0435 | 69 | 64 |
| EM3-132MA-6 | 4 | 5.5 | 965 | 9.46 | 8.99 | 8.66 | 86.8 | 0.74 | 39.6 | 2 | 2.1 | 6.8 | 0.0521 | 69 | 70 |
| EM3-132MB-6 | 5.5 | 7.5 | 965 | 12.7 | 12.0 | 11.6 | 88 | 0.75 | 54.4 | 2 | 2.1 | 7.1 | 0.065 | 69 | 81 |
| EM3-160M-6 | 7.5 | 10 | 970 | 16.2 | 15.4 | 14.8 | 89.1 | 0.79 | 73.8 | 2.1 | 2.1 | 6.7 | 0.1422 | 73 | 117 |
| EM3-160L-6 | 11 | 15 | 970 | 23.1 | 22.0 | 21.2 | 90.3 | 0.8 | 108.3 | 2.1 | 2.1 | 6.9 | 0.1755 | 73 | 133 |
| EM3-180L-6 | 15 | 20 | 980 | 30.9 | 29.3 | 28.2 | 91.2 | 0.81 | 146.2 | 2 | 2.1 | 7.2 | 0.34 | 73 | 169 |
| EM3-200LA-6 | 18.5 | 25 | 980 | 37.8 | 36.0 | 34.7 | 91.7 | 0.81 | 180.3 | 2.1 | 2.1 | 7.2 | 0.3812 | 73 | 222 |
| EM3-200LB-6 | 22 | 30 | 980 | 44.8 | 42.5 | 41.0 | 92.2 | 0.81 | 214.4 | 2.1 | 2.1 | 7.3 | 0.4491 | 73 | 237 |
| EM3-225M-6 | 30 | 40 | 985 | 59.1 | 56.2 | 54.1 | 92.9 | 0.83 | 290.9 | 2 | 2.1 | 7.1 | 0.9856 | 74 | 313 |
| EM3-250M-6 | 37 | 50 | 985 | 71.7 | 68.1 | 65.7 | 93.3 | 0.84 | 358.7 | 2.1 | 2.1 | 7.1 | 1.35 | 76 | 389 |
| EM3-280S-6 | 45 | 60 | 990 | 85.8 | 81.6 | 78.6 | 93.7 | 0.85 | 434.1 | 2.1 | 2 | 7.2 | 2.47 | 78 | 482 |
| EM3-280M-6 | 55 | 75 | 990 | 103 | 98.1 | 94.6 | 94.1 | 0.86 | 530.6 | 2.1 | 2 | 7.2 | 2.65 | 83 | 536 |
| EM3-315S-6 | 75 | 100 | 990 | 140 | 133 | 128 | 94.6 | 0.86 | 723.5 | 2 | 2 | 6.7 | 3.49 | 83 | 895 |
| EM3-315M-6 | 90 | 125 | 990 | 168 | 161 | 155 | 94.9 | 0.86 | 868.2 | 2 | 2 | 6.7 | 4.12 | 83 | 978 |
| EM3-315LA-6 | 110 | 150 | 990 | 204 | 196 | 189 | 95.1 | 0.86 | 1061.1 | 2 | 2 | 6.7 | 9.31 | 83 | 1050 |
| EM3-315LB-6 | 132 | 180 | 990 | 244 | 232 | 224 | 95.4 | 0.87 | 1273.3 | 2 | 2 | 6.7 | 10.5 | 83 | 1135 |
| EM3-355MA-6 | 160 | 220 | 990 | 289 | 275 | 265 | 95.6 | 0.88 | 1543.4 | 2 | 2 | 6.7 | 11.4 | 85 | 1542 |
| EM3-355MB-6 | 200 | 270 | 990 | 365 | 346 | 334 | 95.8 | 0.88 | 1929.3 | 2 | 2 | 6.7 | 13.5 | 85 | 1667 |
| EM3-355LB-6 | 250 | 340 | 990 | 456 | 433 | 417 | 95.8 | 0.88 | 2411.6 | 2 | 2 | 6.7 | 14.4 | 85 | 1771 |

CAST IRON - IE3 8 POLE

| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|-------------|--------------|-----|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM3-100LA-8 | 0.75 | 1 | 695 | 2.27 | 2.15 | 2.08 | 75 | 0.67 | 10.3 | 1.8 | 2 | 6.2 | 0.008 | 59 | 32 |
| EM3-100LB-8 | 1.1 | 1.5 | 695 | 3.12 | 2.96 | 2.85 | 77.7 | 0.69 | 15.1 | 1.8 | 2 | 6.2 | 0.01 | 59 | 34 |
| EM3-112M-8 | 1.5 | 2 | 695 | 4.09 | 3.88 | 3.74 | 79.7 | 0.7 | 20.6 | 1.8 | 2 | 6.7 | 0.017 | 61 | 43 |
| EM3-132S-8 | 2.2 | 3 | 715 | 5.75 | 5.46 | 5.26 | 81.9 | 0.71 | 29.4 | 1.8 | 2 | 6.7 | 0.0131 | 64 | 68 |
| EM3-132M-8 | 3 | 4 | 715 | 7.48 | 7.10 | 6.85 | 83.5 | 0.73 | 40.1 | 1.8 | 2 | 6.9 | 0.04 | 64 | 83 |
| EM3-160MA-8 | 4 | 5.5 | 725 | 9.82 | 9.33 | 8.99 | 84.8 | 0.73 | 52.7 | 1.9 | 2 | 6.9 | 0.075 | 68 | 100 |
| EM3-160MB-8 | 5.5 | 7.5 | 725 | 13.1 | 12.4 | 12.0 | 86.2 | 0.74 | 72.4 | 1.9 | 2 | 6.9 | 0.093 | 68 | 114 |
| EM3-160L-8 | 7.5 | 10 | 725 | 17.4 | 16.5 | 15.9 | 87.3 | 0.75 | 98.8 | 1.9 | 2 | 6.6 | 0.126 | 68 | 133 |
| EM3-180L-8 | 11 | 15 | 735 | 25.2 | 23.9 | 23.0 | 88.6 | 0.75 | 142.9 | 2 | 2 | 6.6 | 0.203 | 70 | 181 |
| EM3-200L-8 | 15 | 20 | 735 | 33.5 | 31.8 | 30.6 | 89.6 | 0.76 | 194.9 | 2 | 2 | 6.8 | 0.339 | 73 | 250 |
| EM3-225S-8 | 18.5 | 25 | 735 | 41.0 | 39.0 | 37.6 | 90.1 | 0.76 | 240.3 | 1.9 | 2 | 6.8 | 0.491 | 73 | 283 |
| EM3-225M-8 | 22 | 30 | 745 | 47.3 | 44.9 | 43.3 | 90.6 | 0.78 | 282.0 | 1.9 | 2 | 7 | 0.547 | 73 | 306 |
| EM3-250M-8 | 30 | 40 | 745 | 63.2 | 60.0 | 57.9 | 91.3 | 0.79 | 384.5 | 1.9 | 2 | 6.7 | 0.83 | 75 | 389 |
| EM3-280S-8 | 37 | 50 | 745 | 77.5 | 73.6 | 71.0 | 91.8 | 0.79 | 474.2 | 1.9 | 2 | 6.7 | 1.39 | 76 | 512 |
| EM3-280M-8 | 45 | 60 | 745 | 93.9 | 89.2 | 86.0 | 92.2 | 0.79 | 576.8 | 1.9 | 2 | 6.7 | 1.65 | 76 | 568 |
| EM3-315S-8 | 55 | 75 | 745 | 112 | 106 | 102 | 92.5 | 0.81 | 705.0 | 1.8 | 2 | 6.8 | 4.79 | 82 | 856 |
| EM3-315M-8 | 75 | 100 | 745 | 151 | 144 | 138 | 93.1 | 0.81 | 961.3 | 1.8 | 2 | 6.3 | 5.58 | 82 | 948 |
| EM3-315LA-8 | 90 | 125 | 745 | 179 | 170 | 163 | 93.4 | 0.82 | 1153.6 | 1.8 | 2 | 6.4 | 6.37 | 82 | 1035 |
| EM3-315LB-8 | 110 | 150 | 745 | 218 | 207 | 199 | 93.7 | 0.82 | 1409.9 | 1.8 | 2 | 6.4 | 7.23 | 82 | 1048 |
| EM3-355M-8 | 132 | 180 | 745 | 260 | 247 | 238 | 94 | 0.82 | 1691.9 | 1.8 | 2 | 6.5 | 7.6 | 89 | 1771 |
| EM3-355MA-8 | 160 | 220 | 745 | 314 | 299 | 288 | 94.3 | 0.82 | 2050.8 | 1.8 | 2 | 6.6 | 11.73 | 89 | 1927 |
| EM3-355L-8 | 200 | 270 | 745 | 387 | 368 | 354 | 94.6 | 0.83 | 2563.5 | 1.8 | 2 | 6.6 | 12.48 | 89 | 2010 |

CAST IRON - IE4 2 POLE

| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|-------------|--------------|-----|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM4-80A-2 | 0.75 | 1 | 2855 | 1.62 | 1.54 | 1.48 | 84.9 | 0.83 | 2.5 | 2.3 | 2.3 | 6.8 | 0.001 | 62 | 19 |
| EM4-80B-2 | 1.1 | 1.5 | 2860 | 2.32 | 2.21 | 2.13 | 86.7 | 0.83 | 3.7 | 2.3 | 2.3 | 7.1 | 0.002 | 62 | 20 |
| EM4-90S-2 | 1.5 | 2 | 2875 | 3.06 | 2.91 | 2.81 | 87.5 | 0.85 | 5.0 | 2.3 | 2.3 | 7.3 | 0.002 | 67 | 23 |
| EM4-90L-2 | 2.2 | 3 | 2875 | 4.36 | 4.14 | 3.99 | 89.1 | 0.86 | 7.3 | 2.3 | 2.3 | 7.6 | 0.003 | 67 | 32 |
| EM4-100L-2 | 3 | 4 | 2880 | 5.84 | 5.55 | 5.35 | 89.7 | 0.87 | 9.9 | 2.2 | 2.3 | 7.8 | 0.006 | 74 | 45 |
| EM4-112M-2 | 4 | 5.5 | 2880 | 7.65 | 7.27 | 7.00 | 90.3 | 0.88 | 13.3 | 2.2 | 2.3 | 8.1 | 0.009 | 77 | 50 |
| EM4-132SA-2 | 5.5 | 7.5 | 2900 | 10.4 | 9.86 | 9.50 | 91.5 | 0.88 | 18.1 | 2.2 | 2.3 | 8.2 | 0.024 | 79 | 85 |
| EM4-132SB-2 | 7.5 | 10 | 2900 | 13.9 | 13.2 | 12.7 | 92.1 | 0.89 | 24.7 | 2.2 | 2.3 | 7.8 | 0.029 | 79 | 91 |
| EM4-160MA-2 | 11 | 15 | 2940 | 20.2 | 19.2 | 18.5 | 93 | 0.89 | 35.7 | 2.2 | 2.3 | 7.9 | 0.067 | 81 | 134 |
| EM4-160MB-2 | 15 | 20 | 2940 | 27.4 | 26.0 | 25.1 | 93.4 | 0.89 | 48.7 | 2.2 | 2.3 | 7.9 | 0.08 | 81 | 150 |
| EM4-160L-2 | 18.5 | 25 | 2940 | 33.7 | 32.0 | 30.8 | 93.8 | 0.89 | 60.1 | 2.2 | 2.3 | 8 | 0.097 | 81 | 170 |
| EM4-180M-2 | 22 | 30 | 2955 | 39.8 | 37.8 | 36.4 | 94.4 | 0.89 | 71.1 | 2.2 | 2.3 | 8.1 | 0.137 | 83 | 244 |
| EM4-200LA-2 | 30 | 40 | 2965 | 54.2 | 51.5 | 49.6 | 94.5 | 0.89 | 96.6 | 2.0 | 2.3 | 7.5 | 0.227 | 84 | 329 |
| EM4-200LB-2 | 37 | 50 | 2965 | 66.6 | 63.3 | 61.0 | 94.8 | 0.89 | 119.2 | 2.0 | 2.3 | 7.5 | 0.269 | 84 | 345 |
| EM4-225M-2 | 45 | 60 | 2970 | 80.8 | 76.7 | 74.0 | 95.1 | 0.89 | 144.7 | 2.2 | 2.3 | 8.8 | 0.36 | 86 | 436 |
| EM4-250M-2 | 55 | 75 | 2975 | 98.4 | 93.5 | 90.1 | 95.4 | 0.89 | 176.6 | 2.2 | 2.3 | 7.5 | 0.791 | 89 | 546 |
| EM4-280S-2 | 75 | 100 | 2975 | 132 | 126 | 121 | 95.6 | 0.9 | 240.8 | 1.8 | 2.3 | 6.9 | 0.96 | 91 | 681 |
| EM4-280M-2 | 90 | 125 | 2975 | 159 | 151 | 145 | 95.8 | 0.9 | 288.9 | 1.8 | 2.2 | 6.9 | 1.157 | 91 | 731 |
| EM4-315S-2 | 110 | 150 | 2980 | 193 | 184 | 177 | 96 | 0.9 | 352.5 | 1.8 | 2.2 | 7 | 1.662 | 92 | 1296 |
| EM4-315M-2 | 132 | 180 | 2980 | 232 | 220 | 213 | 96.2 | 0.9 | 423.0 | 1.8 | 2.2 | 7 | 1.874 | 92 | 1369 |
| EM4-315LA-2 | 160 | 220 | 2980 | 278 | 264 | 254 | 96.3 | 0.91 | 512.8 | 1.8 | 2.2 | 7.1 | 2.146 | 92 | 1463 |
| EM4-315LB-2 | 200 | 270 | 2980 | 347 | 329 | 318 | 96.5 | 0.91 | 640.9 | 1.8 | 2.2 | 7.1 | 2.448 | 92 | 1544 |
| EM4-355MB-2 | 250 | 340 | 2980 | 433 | 411 | 396 | 96.5 | 0.91 | 801.2 | 1.6 | 2.2 | 7.1 | 4.4 | 100 | 1830 |
| EM4-355L-2 | 315 | 430 | 2980 | 545 | 518 | 499 | 96.5 | 0.91 | 1009.5 | 1.6 | 2.2 | 7.2 | 5 | 100 | 2160 |

CAST IRON - IE4 4 POLE

| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|-------------|--------------|-----|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM4-80B-4 | 0.75 | 1 | 1400 | 1.80 | 1.71 | 1.65 | 85.7 | 0.74 | 5.1 | 2.3 | 2.3 | 6.4 | 0.003 | 56 | 20 |
| EM4-90S-4 | 1.1 | 1.5 | 1425 | 2.55 | 2.42 | 2.33 | 87.4 | 0.75 | 7.4 | 2.3 | 2.3 | 6.6 | 0.004 | 59 | 27 |
| EM4-90L-4 | 1.5 | 2 | 1425 | 3.32 | 3.15 | 3.04 | 88.2 | 0.78 | 10.1 | 2.3 | 2.3 | 6.7 | 0.005 | 59 | 30 |
| EM4-100LA-4 | 2.2 | 3 | 1440 | 4.68 | 4.44 | 4.28 | 89.7 | 0.797 | 14.6 | 2.3 | 2.3 | 7.3 | 0.012 | 64 | 41 |
| EM4-100LB-4 | 3 | 4 | 1440 | 6.31 | 5.99 | 5.78 | 90.4 | 0.8 | 19.9 | 2.3 | 2.3 | 7.5 | 0.016 | 64 | 46 |
| EM4-112M-4 | 4 | 5.5 | 1450 | 8.36 | 7.92 | 7.65 | 91.1 | 0.8 | 26.3 | 2.3 | 2.3 | 7.5 | 0.022 | 65 | 54 |
| EM4-132S-4 | 5.5 | 7.5 | 1455 | 11.2 | 10.6 | 10.3 | 92.1 | 0.81 | 36.1 | 2 | 2.3 | 7.5 | 0.06 | 71 | 100 |
| EM4-132M-4 | 7.5 | 10 | 1455 | 15.0 | 14.3 | 13.7 | 92.6 | 0.82 | 49.2 | 2 | 2.3 | 7.3 | 0.071 | 71 | 112 |
| EM4-160M-4 | 11 | 15 | 1465 | 20.5 | 20.4 | 19.7 | 93.6 | 0.83 | 71.7 | 2 | 2.3 | 7.4 | 0.137 | 73 | 148 |
| EM4-160L-4 | 15 | 20 | 1465 | 28.5 | 27.1 | 26.1 | 94 | 0.85 | 97.8 | 2 | 2.3 | 7.5 | 0.171 | 73 | 172 |
| EM4-180M-4 | 18.5 | 25 | 1470 | 35.1 | 33.3 | 32.1 | 94.3 | 0.85 | 120.2 | 2 | 2.3 | 7.6 | 0.238 | 76 | 241 |
| EM4-180L-4 | 22 | 30 | 1475 | 41.5 | 39.4 | 38.0 | 94.7 | 0.85 | 142.4 | 2.1 | 2.3 | 7.7 | 0.259 | 76 | 257 |
| EM4-200L-4 | 30 | 40 | 1475 | 56.4 | 53.6 | 51.7 | 95 | 0.85 | 194.2 | 2.1 | 2.3 | 7.1 | 0.459 | 76 | 366 |
| EM4-225S-4 | 37 | 50 | 1480 | 68.6 | 65.2 | 62.8 | 95.3 | 0.86 | 238.8 | 2.1 | 2.3 | 7.3 | 0.656 | 78 | 407 |
| EM4-225M-4 | 45 | 60 | 1480 | 83.2 | 79.0 | 76.1 | 95.6 | 0.86 | 290.4 | 2.2 | 2.3 | 7.3 | 0.758 | 78 | 435 |
| EM4-250M-4 | 55 | 75 | 1480 | 101 | 96.4 | 92.9 | 95.8 | 0.86 | 354.9 | 2.2 | 2.3 | 7.3 | 1.078 | 79 | 553 |
| EM4-280S-4 | 75 | 100 | 1485 | 135 | 128 | 124 | 96 | 0.88 | 482.3 | 2.2 | 2.3 | 6.8 | 1.8 | 80 | 717 |
| EM4-280M-4 | 90 | 125 | 1485 | 162 | 153 | 148 | 96.2 | 0.88 | 578.8 | 2.2 | 2.3 | 6.9 | 2.13 | 80 | 788 |
| EM4-315S-4 | 110 | 150 | 1485 | 195 | 185 | 178 | 96.4 | 0.89 | 707.4 | 2.1 | 2.2 | 6.9 | 3.415 | 88 | 1320 |
| EM4-315M-4 | 132 | 180 | 1485 | 234 | 222 | 214 | 96.5 | 0.89 | 848.9 | 2.1 | 2.2 | 6.9 | 3.807 | 88 | 1387 |
| EM4-315LA-4 | 160 | 220 | 1485 | 280 | 266 | 256 | 96.6 | 0.9 | 1029.0 | 2.1 | 2.2 | 6.9 | 3.423 | 88 | 1458 |
| EM4-315LB-4 | 200 | 270 | 1485 | 350 | 332 | 320 | 96.7 | 0.9 | 1286.2 | 2.1 | 2.2 | 6.9 | 5.262 | 88 | 1545 |
| EM4-355MB-4 | 250 | 340 | 1490 | 436 | 415 | 400 | 96.7 | 0.9 | 1602.3 | 2 | 2.2 | 6.9 | 9.9 | 95 | 1840 |
| EM4-355L-4 | 315 | 430 | 1490 | 549 | 522 | 503 | 96.8 | 0.9 | 2019.0 | 2 | 2.2 | 6.9 | 11.6 | 95 | 2280 |

CAST IRON - IE4 6 POLE

| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|-------------|--------------|-----|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM4-90S-6 | 0.75 | 1 | 935 | 1.96 | 1.86 | 1.79 | 83.1 | 0.7 | 7.7 | 2 | 2.1 | 5.8 | 0.004 | 57 | 25 |
| EM4-90L-6 | 1.1 | 1.5 | 940 | 2.80 | 2.65 | 2.56 | 84.5 | 0.71 | 11.2 | 2 | 2.1 | 5.9 | 0.006 | 57 | 30 |
| EM4-100L-6 | 1.5 | 2 | 945 | 3.72 | 3.54 | 3.41 | 86.2 | 0.71 | 15.2 | 2 | 2.1 | 5.9 | 0.016 | 61 | 40 |
| EM4-112M-6 | 2.2 | 3 | 950 | 5.33 | 5.05 | 4.88 | 87.4 | 0.72 | 22.1 | 2 | 2.1 | 6.2 | 0.039 | 65 | 46 |
| EM4-132S-6 | 3 | 4 | 960 | 7.14 | 6.78 | 6.54 | 88.7 | 0.72 | 29.8 | 2 | 2.1 | 6.4 | 0.035 | 69 | 83 |
| EM4-132MA-6 | 4 | 5.5 | 960 | 8.26 | 7.85 | 7.57 | 89.7 | 0.82 | 39.8 | 2 | 2.1 | 6.6 | 0.043 | 69 | 95 |
| EM4-132MB-6 | 5.5 | 7.5 | 960 | 12.5 | 12.0 | 11.6 | 90.5 | 0.73 | 54.7 | 2 | 2.1 | 6.8 | 0.056 | 69 | 110 |
| EM4-160M-6 | 7.5 | 10 | 970 | 16.0 | 15.0 | 14.6 | 91.3 | 0.79 | 73.8 | 2 | 2.1 | 6.8 | 0.14 | 73 | 146 |
| EM4-160L-6 | 11 | 15 | 970 | 23.1 | 21.8 | 21.2 | 92.3 | 0.79 | 108.3 | 2 | 2.1 | 6.9 | 0.192 | 73 | 168 |
| EM4-180L-6 | 15 | 20 | 975 | 30.8 | 29.1 | 28.2 | 92.9 | 0.8 | 146.9 | 2 | 2.1 | 7.3 | 0.319 | 73 | 204 |
| EM4-200LA-6 | 18.5 | 25 | 975 | 37.7 | 35.7 | 34.6 | 93.4 | 0.8 | 181.2 | 2 | 2.1 | 7.2 | 0.446 | 73 | 308 |
| EM4-200LB-6 | 22 | 30 | 975 | 43.9 | 41.8 | 40.2 | 93.9 | 0.81 | 215.5 | 2 | 2.1 | 7.3 | 0.557 | 73 | 326 |
| EM4-225M-6 | 30 | 40 | 985 | 58.9 | 56.0 | 54.0 | 94.3 | 0.82 | 290.9 | 2 | 2.1 | 6.8 | 0.832 | 74 | 397 |
| EM4-250M-6 | 37 | 50 | 985 | 71.6 | 68.0 | 65.6 | 94.6 | 0.83 | 358.7 | 2 | 2.1 | 7 | 1.447 | 76 | 477 |
| EM4-280S-6 | 45 | 60 | 985 | 84.8 | 80.5 | 77.6 | 94.9 | 0.85 | 436.3 | 2 | 2 | 7.2 | 2.252 | 78 | 702 |
| EM4-280M-6 | 55 | 75 | 985 | 102 | 97.0 | 93.5 | 95.2 | 0.86 | 533.2 | 2 | 2 | 7.2 | 2.726 | 83 | 763 |
| EM4-315S-6 | 75 | 100 | 990 | 142 | 135 | 130 | 95.4 | 0.84 | 723.5 | 2 | 2 | 6.5 | 3.984 | 83 | 1265 |
| EM4-315M-6 | 90 | 125 | 990 | 168 | 160 | 154 | 95.6 | 0.85 | 868.2 | 2 | 2 | 6.6 | 4.5 | 83 | 1334 |
| EM4-315LA-6 | 110 | 150 | 990 | 206 | 195 | 188 | 95.8 | 0.85 | 1061.1 | 2 | 2 | 6.6 | 5.607 | 83 | 1465 |
| EM4-315LB-6 | 132 | 180 | 990 | 243 | 231 | 223 | 96 | 0.86 | 1273.3 | 2 | 2 | 6.7 | 6.935 | 83 | 1525 |
| EM4-355MA-6 | 160 | 220 | 990 | 294 | 279 | 270 | 96.2 | 0.86 | 1543.4 | 1.8 | 2 | 6.8 | 11.9 | 85 | 1680 |
| EM4-355MB-6 | 200 | 270 | 990 | 363 | 345 | 333 | 96.3 | 0.87 | 1929.3 | 1.8 | 2 | 6.8 | 13.5 | 85 | 1810 |
| EM4-355LB-6 | 250 | 340 | 990 | 454 | 430 | 416 | 96.5 | 0.87 | 2411.6 | 1.8 | 2 | 6.8 | 14.3 | 85 | 1960 |

CAST IRON - IE4 8 POLE

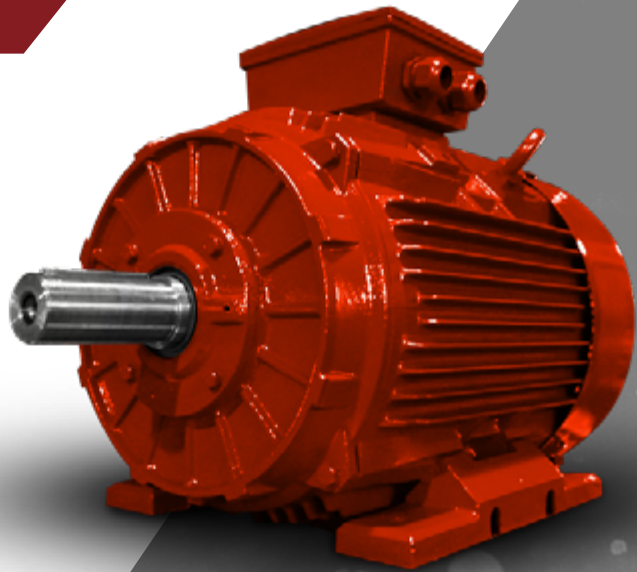
| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|-------------|--------------|-----|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM4-100LA-8 | 0.75 | 1 | 690 | 2.20 | 2.09 | 2.02 | 78.4 | 0.66 | 10.4 | 2 | 2 | 7 | 0.008 | 59 | 35 |
| EM4-100LB-8 | 1.1 | 1.5 | 690 | 3.09 | 2.93 | 2.83 | 80.8 | 0.67 | 15.2 | 2 | 2 | 7 | 0.01 | 59 | 41 |
| EM4-112M-8 | 1.5 | 2 | 690 | 4.00 | 3.80 | 3.66 | 82.6 | 0.69 | 20.8 | 2 | 2 | 7 | 0.017 | 61 | 46 |
| EM4-132S-8 | 2.2 | 3 | 710 | 5.65 | 5.37 | 5.17 | 84.5 | 0.7 | 29.6 | 1.8 | 2 | 7.5 | 0.031 | 64 | 60 |
| EM4-132M-8 | 3 | 4 | 710 | 7.45 | 7.10 | 6.84 | 85.9 | 0.71 | 40.3 | 1.8 | 2 | 7.8 | 0.04 | 64 | 69 |
| EM4-160MA-8 | 4 | 5.5 | 720 | 9.69 | 9.21 | 8.9 | 87.1 | 0.72 | 53.1 | 1.8 | 2 | 7.9 | 0.075 | 68 | 104 |
| EM4-160MB-8 | 5.5 | 7.5 | 720 | 13.0 | 12.3 | 11.9 | 88.3 | 0.73 | 72.9 | 1.8 | 2 | 8.1 | 0.093 | 68 | 122 |
| EM4-160L-8 | 7.5 | 10 | 720 | 17.2 | 16.4 | 15.8 | 89.3 | 0.74 | 99.5 | 1.8 | 2 | 7.8 | 0.126 | 68 | 139 |
| EM4-180L-8 | 11 | 15 | 730 | 25.0 | 23.7 | 22.9 | 90.4 | 0.74 | 143.9 | 1.8 | 2 | 7.9 | 0.203 | 70 | 174 |
| EM4-200L-8 | 15 | 20 | 730 | 33.3 | 31.7 | 30.5 | 91.2 | 0.75 | 196.2 | 1.8 | 2 | 8 | 0.339 | 73 | 249 |
| EM4-225S-8 | 18.5 | 25 | 730 | 40.9 | 38.8 | 37.4 | 91.7 | 0.75 | 242.0 | 1.8 | 2 | 8.1 | 0.491 | 73 | 307 |
| EM4-225M-8 | 22 | 30 | 740 | 47.1 | 44.8 | 43.2 | 92.1 | 0.77 | 283.9 | 1.8 | 2 | 8.3 | 0.547 | 73 | 341 |
| EM4-250M-8 | 30 | 40 | 740 | 63.0 | 59.9 | 57.7 | 92.7 | 0.78 | 387.1 | 1.8 | 2 | 7.9 | 0.83 | 75 | 440 |
| EM4-280S-8 | 37 | 50 | 740 | 77.4 | 73.5 | 70.9 | 93.1 | 0.78 | 477.5 | 1.8 | 2 | 7.9 | 1.4 | 76 | 561 |
| EM4-280M-8 | 45 | 60 | 740 | 93.9 | 89.2 | 85.9 | 93.4 | 0.78 | 580.7 | 1.8 | 2 | 7.9 | 1.65 | 76 | 660 |
| EM4-315S-8 | 55 | 75 | 740 | 111 | 106 | 102 | 93.7 | 0.8 | 709.7 | 1.8 | 2 | 8.2 | 4.79 | 82 | 868 |
| EM4-315M-8 | 75 | 100 | 740 | 149 | 142 | 137 | 94.2 | 0.81 | 967.8 | 2 | 2 | 7.6 | 5.58 | 82 | 938 |
| EM4-315LA-8 | 90 | 125 | 740 | 177 | 168 | 162 | 94.4 | 0.82 | 1161.4 | 2 | 2 | 7.7 | 6.37 | 82 | 1158 |
| EM4-315LB-8 | 110 | 150 | 740 | 215 | 204 | 197 | 94.7 | 0.82 | 1419.4 | 2 | 2 | 7.7 | 7.3 | 82 | 1366 |
| EM4-355M-8 | 132 | 180 | 740 | 258 | 245 | 236 | 94.9 | 0.82 | 1703.3 | 2 | 2 | 7.7 | 12.5 | 89 | 1736 |
| EM4-355MA-8 | 160 | 220 | 740 | 312 | 296 | 285 | 95.1 | 0.82 | 2064.6 | 2 | 2 | 7.7 | 12.9 | 89 | 2084 |
| EM4-355L-8 | 200 | 270 | 740 | 384 | 365 | 351 | 95.4 | 0.83 | 2580.8 | 2 | 2 | 7.8 | 14.2 | 89 | 2142 |

CLASS H MOTORS

THREE-PHASE ASYNCHRONOUS MOTORS CAST IRON HOUSING

The Class H series of three-phase asynchronous motors are designed with a Totally Enclosed Fan Cooled (TEFC) construction and are available in both cast iron and aluminium housing. These motors are an enhancement over our standard induction motors and share the same technical data.

They are specifically designed to meet the High Temperature Resistance requirements and can endure an ambient temperature of up to 85 °C and an internal winding temperature of up to 300 °C for up to 2 hours. This is achieved through the use of higher temperature safety margins and enhancements made to our internal winding, among other things.



CERTIFICATION

Class H 180°C for 2 Hours

Class H 300°C for 2 Hours

Class H 250°C for 2 Hours

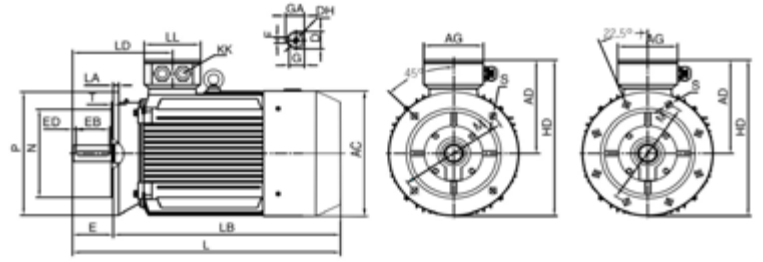
Class H 400°C for 2 Hours



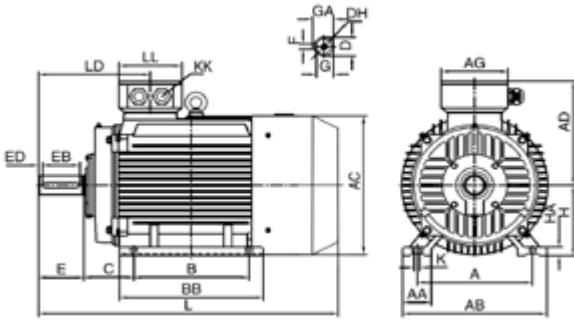
DIMENSIONAL DRAWING

ALUMINIUM - IE1 & IE3

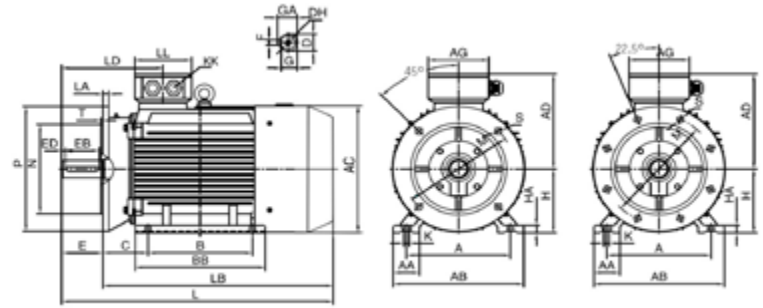
*all dimensions are measured in mm



FLANGE MOUNTED B5

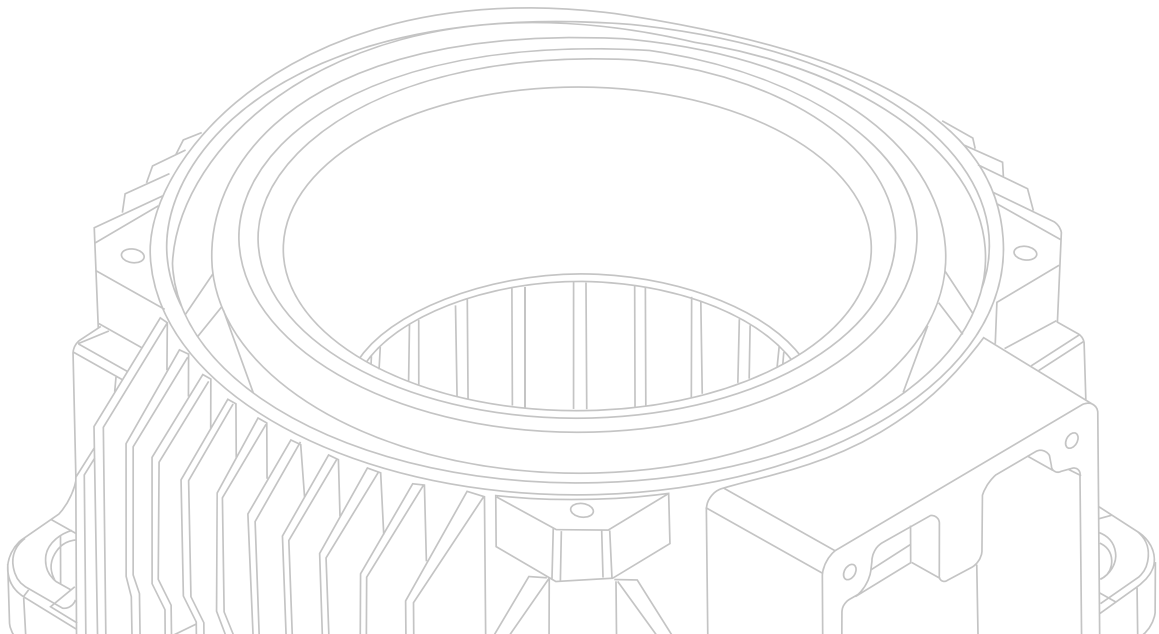


FOOT MOUNTED B3



FOOT & FLANGE MOUNTED B35

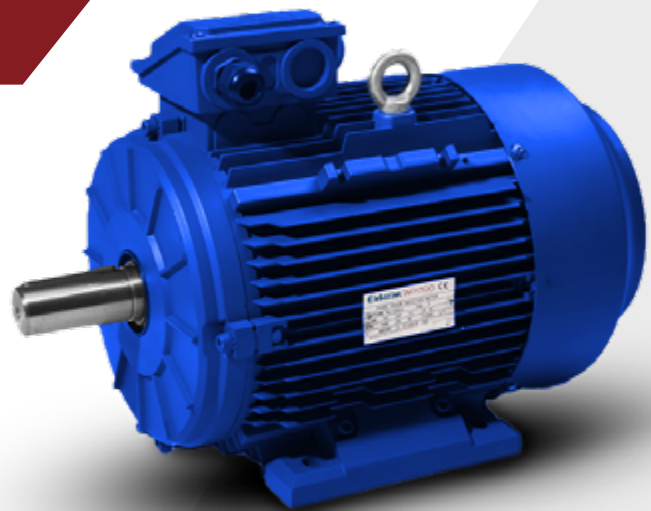
| Frame Size | A | AA | AB | AC | AD | AG | B | BA | BB | C | D | DH | E | EB | ED | F | G | GA | H | HA | K | KK | L | LA | LB | LD | LL | N | P | S | T |
|------------|-----|----|-----|-----|-----|-------|-----|------|-----|-----|----|--------|-----|----|-----|----|------|------|-----|----|-------|---------|-----|----|-----|-------|-------|-----|-----|------|-----|
| 63 | 100 | 24 | 123 | 120 | 102 | 101 | 80 | 25.5 | 100 | 40 | 11 | M4X12 | 23 | 16 | 3.5 | 4 | 8.5 | 12.5 | 63 | 7 | 7X9.5 | M20*1.5 | 217 | 10 | 194 | 95.5 | 101 | 95 | 140 | 10 | 3 |
| 71 | 112 | 26 | 138 | 136 | 109 | 101 | 90 | 27.5 | 110 | 45 | 14 | M5X12 | 30 | 25 | 2.5 | 5 | 11 | 16 | 71 | 8 | 7X11 | M20*1.5 | 245 | 10 | 215 | 110.5 | 101 | 110 | 160 | 10 | 3.5 |
| 80 | 125 | 35 | 157 | 155 | 124 | 101 | 100 | 32.5 | 125 | 50 | 19 | M6X16 | 40 | 30 | 5 | 6 | 15.5 | 21.5 | 80 | 9 | 10X14 | M20*1.5 | 287 | 12 | 247 | 118 | 101 | 130 | 200 | 12 | 3.5 |
| 90S | 140 | 37 | 173 | 175 | 137 | 109 | 100 | 32.5 | 125 | 56 | 24 | M8X19 | 50 | 40 | 5 | 8 | 20 | 27 | 90 | 10 | 10X14 | M20*1.5 | 310 | 11 | 260 | 136 | 109 | 130 | 200 | 12 | 3.5 |
| 90L | 140 | 37 | 173 | 175 | 137 | 109 | 125 | 32.5 | 150 | 56 | 24 | M8X19 | 50 | 40 | 5 | 8 | 20 | 27 | 90 | 10 | 10X14 | M20*1.5 | 335 | 11 | 285 | 136 | 109 | 130 | 200 | 12 | 3.5 |
| 100L | 160 | 40 | 196 | 195 | 151 | 109 | 140 | 39 | 172 | 63 | 28 | M10X22 | 60 | 50 | 5 | 8 | 24 | 31 | 100 | 11 | 12X16 | M20*1.5 | 383 | 13 | 323 | 144 | 109 | 180 | 250 | 14.5 | 4 |
| 112M | 190 | 41 | 227 | 219 | 169 | 117.5 | 140 | 43 | 180 | 70 | 28 | M10X22 | 60 | 50 | 5 | 8 | 24 | 31 | 112 | 12 | 12X16 | M25*1.5 | 401 | 14 | 341 | 152 | 117.5 | 180 | 250 | 14.5 | 4 |
| 132S | 216 | 51 | 262 | 258 | 188 | 117.5 | 140 | 46 | 186 | 89 | 38 | M12X28 | 80 | 65 | 7.5 | 10 | 33 | 41 | 132 | 15 | 12X16 | M25*1.5 | 475 | 14 | 395 | 180 | 117.5 | 230 | 300 | 14.5 | 4 |
| 132M | 216 | 51 | 262 | 258 | 188 | 117.5 | 178 | 46 | 224 | 89 | 38 | M12X28 | 80 | 65 | 7.5 | 10 | 33 | 41 | 132 | 15 | 12X16 | M25*1.5 | 513 | 14 | 433 | 180 | 117.5 | 230 | 300 | 14.5 | 4 |
| 160M | 254 | 55 | 304 | 315 | 242 | 167 | 210 | 50 | 260 | 108 | 42 | M16X36 | 110 | 90 | 10 | 12 | 37 | 45 | 160 | 18 | 15X18 | M32*1.5 | 609 | 15 | 499 | 268.5 | 157 | 250 | 350 | 18.5 | 5 |
| 160L | 254 | 55 | 304 | 315 | 242 | 167 | 254 | 50 | 304 | 108 | 42 | M16X36 | 110 | 90 | 10 | 12 | 37 | 45 | 160 | 18 | 15X18 | M32*1.5 | 653 | 15 | 543 | 268.5 | 157 | 250 | 350 | 18.5 | 5 |



ALUMINIUM MOTORS

THREE-PHASE ASYNCHRONOUS MOTORS ALUMINIUM HOUSING

The Aluminum Motors series offers a variety of power outputs, ranging from 0.09 KW to 15 KW, with options of 2, 4, 6, and 8 poles. These motors are utilized in a wide range of industries, including blower fan, industrial fan, food and beverage, water and sewage, and air compressor. Advantages of aluminum over cast iron include a lighter weight due to the motor body's material composition, detachable motor feet, and a more polished appearance.



TECHNICAL DATA

ALUMINIUM - IE1 2 POLE

| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|------------|--------------|------|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM63A-2 | 0.18 | 0.25 | 2720 | 0.68 | 0.65 | 0.62 | 52.8 | 0.80 | 0.63 | 2.3 | 2.2 | 5.5 | 0.00567 | 61 | 4.3 |
| EM63B-2 | 0.25 | 0.37 | 2720 | 0.85 | 0.80 | 0.77 | 58.2 | 0.81 | 0.88 | 2.3 | 2.2 | 5.5 | 0.00567 | 61 | 4.4 |
| EM71A-2 | 0.37 | 0.5 | 2740 | 1.14 | 1.08 | 1.04 | 63.9 | 0.81 | 1.29 | 2.3 | 2.2 | 6.1 | 0.00832 | 64 | 5.3 |
| EM71B-2 | 0.55 | 0.75 | 2740 | 1.55 | 1.47 | 1.42 | 69 | 0.82 | 1.92 | 2.2 | 2.3 | 6.1 | 0.00832 | 64 | 6.2 |
| EM80A-2 | 0.75 | 1 | 2840 | 2.00 | 1.90 | 1.83 | 72.1 | 0.83 | 2.52 | 2.2 | 2.3 | 6.1 | 0.01071 | 62 | 8.7 |
| EM80B-2 | 1.1 | 1.5 | 2840 | 2.79 | 2.65 | 2.55 | 75 | 0.84 | 3.7 | 2.2 | 2.3 | 6.9 | 0.01071 | 62 | 9.2 |
| EM90S-2 | 1.5 | 2 | 2840 | 3.69 | 3.51 | 3.38 | 77.2 | 0.84 | 5.04 | 2.2 | 2.3 | 7 | 0.013984 | 67 | 12.8 |
| EM90L-2 | 2.2 | 3 | 2840 | 5.18 | 4.92 | 4.74 | 79.7 | 0.85 | 7.4 | 2.2 | 2.3 | 7 | 0.015295 | 67 | 15 |
| EM100L-2 | 3 | 4 | 2860 | 6.75 | 6.41 | 6.18 | 81.5 | 0.87 | 10.02 | 2.2 | 2.3 | 7.5 | 0.02145 | 74 | 20.2 |
| EM112M-2 | 4 | 5.5 | 2880 | 8.73 | 8.29 | 7.99 | 83.1 | 0.88 | 13.3 | 2.2 | 2.3 | 7.5 | 0.029232 | 77 | 24 |
| EM132SA-2 | 5.5 | 7.5 | 2900 | 12.0 | 11.4 | 11.0 | 84.7 | 0.86 | 18.1 | 2.2 | 2.3 | 7.5 | 0.039339 | 79 | 35.5 |
| EM132SB-2 | 7.5 | 10 | 2900 | 15.8 | 15.0 | 14.5 | 86 | 0.88 | 24.7 | 2.2 | 2.3 | 7.5 | 0.04185 | 79 | 39.7 |

ALUMINIUM - IE1 4 POLE

| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|------------|--------------|------|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM63A-4 | 0.12 | 0.18 | 1310 | 0.53 | 0.51 | 0.49 | 50 | 0.72 | 0.87 | 2.1 | 2.2 | 4.4 | 0.00567 | 52 | 4.2 |
| EM63B-4 | 0.18 | 0.25 | 1310 | 0.69 | 0.66 | 0.63 | 57 | 0.73 | 1.31 | 2.1 | 2.2 | 4.4 | 0.00567 | 52 | 4.5 |
| EM71A-4 | 0.25 | 0.37 | 1330 | 0.88 | 0.83 | 0.80 | 61.5 | 0.74 | 1.8 | 2.1 | 2.2 | 5.2 | 0.00832 | 55 | 5.3 |
| EM71B-4 | 0.37 | 0.5 | 1330 | 1.19 | 1.13 | 1.09 | 66 | 0.75 | 2.66 | 2.1 | 2.2 | 5.2 | 0.00832 | 55 | 6.1 |
| EM80A-4 | 0.55 | 0.75 | 1390 | 1.67 | 1.59 | 1.53 | 70 | 0.75 | 3.78 | 2.4 | 2.3 | 5.2 | 0.01071 | 56 | 8.1 |
| EM80B-4 | 0.75 | 1 | 1390 | 2.18 | 2.07 | 2.00 | 72.1 | 0.76 | 5.15 | 2.3 | 2.3 | 6 | 0.01071 | 56 | 9.2 |
| EM90S-4 | 1.1 | 1.5 | 1390 | 3.04 | 2.89 | 2.78 | 75 | 0.77 | 7.56 | 2.3 | 2.3 | 6 | 0.013984 | 59 | 12.3 |
| EM90L-4 | 1.5 | 2 | 1390 | 3.97 | 3.78 | 3.64 | 77.2 | 0.78 | 10.2 | 2.3 | 2.3 | 6 | 0.015295 | 59 | 15.3 |
| EM100LA-4 | 2.2 | 3 | 1390 | 5.44 | 5.16 | 4.98 | 79.7 | 0.81 | 15.1 | 2.3 | 2.3 | 7 | 0.02145 | 64 | 20 |
| EM100LB-4 | 3 | 4 | 1410 | 7.16 | 6.80 | 6.56 | 81.5 | 0.82 | 20.3 | 2.3 | 2.3 | 7 | 0.02145 | 64 | 22.7 |
| EM112M-4 | 4 | 5.5 | 1410 | 9.36 | 8.90 | 8.58 | 83.1 | 0.82 | 27.1 | 2.3 | 2.3 | 7 | 0.029232 | 65 | 24 |
| EM132S-4 | 5.5 | 7.5 | 1435 | 12.5 | 11.9 | 11.4 | 84.7 | 0.83 | 36.6 | 2.3 | 2.3 | 7 | 0.039339 | 71 | 33 |
| EM132M-4 | 7.5 | 10 | 1440 | 16.6 | 15.7 | 15.2 | 86 | 0.84 | 49.7 | 2.3 | 2.3 | 7 | 0.04185 | 71 | 48 |

ALUMINIUM - IE1 6 POLE

| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|------------|--------------|------|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM71B-6 | 0.25 | 0.37 | 850 | 1.13 | 1.07 | 1.03 | 52.1 | 0.68 | 2.81 | 1.9 | 2 | 4 | 0.00832 | 52 | 6.7 |
| EM80A-6 | 0.37 | 0.5 | 885 | 1.41 | 1.34 | 1.29 | 59.7 | 0.7 | 3.99 | 1.9 | 2 | 4.7 | 0.01071 | 54 | 8.5 |
| EM80B-6 | 0.55 | 0.75 | 885 | 1.85 | 1.76 | 1.70 | 65.8 | 0.72 | 5.94 | 1.9 | 2.1 | 4.7 | 0.01071 | 54 | 9.4 |
| EM90S-6 | 0.75 | 1 | 910 | 2.37 | 2.26 | 2.17 | 70 | 0.72 | 7.87 | 2 | 2.1 | 5.3 | 0.013984 | 57 | 12.4 |
| EM90L-6 | 1.1 | 1.5 | 910 | 3.34 | 3.18 | 3.06 | 72.9 | 0.72 | 11.5 | 2 | 2.1 | 5.5 | 0.015295 | 57 | 15.6 |
| EM100L-6 | 1.5 | 2 | 920 | 4.24 | 4.03 | 3.89 | 75.2 | 0.75 | 15.6 | 2 | 2.1 | 5.5 | 0.02145 | 61 | 20.5 |
| EM112M-6 | 2.2 | 3 | 935 | 5.94 | 5.65 | 5.44 | 77.7 | 0.76 | 22.5 | 2 | 2.1 | 6.5 | 0.029232 | 65 | 25.2 |
| EM132S-6 | 3 | 4 | 960 | 7.90 | 7.51 | 7.24 | 79.7 | 0.76 | 29.8 | 2.1 | 2.1 | 6.5 | 0.039339 | 69 | 38.5 |
| EM132MA-6 | 4 | 5.5 | 960 | 10.3 | 9.80 | 9.45 | 81.4 | 0.76 | 39.8 | 2.1 | 2.1 | 6.5 | 0.04185 | 69 | 41.5 |
| EM132MB-6 | 5.5 | 7.5 | 960 | 13.7 | 13.0 | 12.6 | 83.1 | 0.77 | 54.7 | 2.1 | 2.1 | 6.5 | 0.04185 | 69 | 45.7 |
| EM160M-6 | 7.5 | 10 | 970 | 18.1 | 17.2 | 16.6 | 84.7 | 0.78 | 73.8 | 2 | 2.1 | 6.5 | 0.08316 | 73 | 69.5 |

ALUMINIUM - IE3 2 POLE

| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|-------------|--------------|-----|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM3-80A-2 | 0.75 | 1 | 2880 | 1.81 | 1.72 | 1.66 | 80.7 | 0.82 | 2.49 | 2.3 | 2.3 | 7 | 0.01071 | 67 | 8.8 |
| EM3-80B-2 | 1.1 | 1.5 | 2880 | 2.56 | 2.43 | 2.34 | 82.7 | 0.83 | 3.65 | 2.2 | 2.3 | 7.3 | 0.01071 | 67 | 9 |
| EM3-90S-2 | 1.5 | 2 | 2895 | 3.38 | 3.21 | 3.09 | 84.2 | 0.84 | 4.95 | 2.2 | 2.3 | 7.6 | 0.013984 | 72 | 13.5 |
| EM3-90L-2 | 2.2 | 3 | 2895 | 4.81 | 4.57 | 4.40 | 85.9 | 0.85 | 7.26 | 2.2 | 2.3 | 7.6 | 0.015295 | 72 | 17 |
| EM3-100L-2 | 3 | 4 | 2895 | 6.32 | 6.00 | 5.79 | 87.1 | 0.87 | 9.9 | 2.2 | 2.3 | 7.8 | 0.02145 | 76 | 23.2 |
| EM3-112M-2 | 4 | 5.5 | 2905 | 8.23 | 7.82 | 7.54 | 88.1 | 0.88 | 13.1 | 2.2 | 2.3 | 8.3 | 0.029232 | 77 | 40 |
| EM3-132SA-2 | 5.5 | 7.5 | 2930 | 11.2 | 10.6 | 10.2 | 89.2 | 0.88 | 17.9 | 2 | 2.3 | 8.3 | 0.039339 | 80 | 42 |
| EM3-132SB-2 | 7.5 | 10 | 2930 | 15.1 | 14.3 | 13.8 | 90.1 | 0.88 | 24.4 | 2 | 2.3 | 7.9 | 0.04185 | 80 | 48 |

ALUMINIUM - IE3 4 POLE

| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|-------------|--------------|------|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM3-80A-4 | 0.55 | 0.75 | 1400 | 1.45 | 1.38 | 1.33 | 80.8 | 0.75 | 3.75 | 2.4 | 2.3 | 5.2 | 0.01071 | 58 | 9.1 |
| EM3-80B-4 | 0.75 | 1 | 1420 | 1.93 | 1.83 | 1.77 | 82.5 | 0.75 | 5.04 | 2.3 | 2.3 | 6.6 | 0.01071 | 58 | 11.1 |
| EM3-90S-4 | 1.1 | 1.5 | 1445 | 2.75 | 2.61 | 2.52 | 84.1 | 0.76 | 7.27 | 2.3 | 2.3 | 6.8 | 0.013984 | 61 | 15 |
| EM3-90L-4 | 1.5 | 2 | 1445 | 3.64 | 3.46 | 3.33 | 85.3 | 0.77 | 9.91 | 2.3 | 2.3 | 7 | 0.015295 | 61 | 19 |
| EM3-100LA-4 | 2.2 | 3 | 1450 | 5.00 | 4.75 | 4.58 | 86.7 | 0.81 | 14.6 | 2.3 | 2.3 | 7.6 | 0.02145 | 64 | 25.4 |
| EM3-100LB-4 | 3 | 4 | 1450 | 6.66 | 6.33 | 6.10 | 87.7 | 0.82 | 20 | 2.3 | 2.3 | 7.6 | 0.02145 | 64 | 30.5 |
| EM3-112M-4 | 4 | 5.5 | 1450 | 8.78 | 8.34 | 8.04 | 88.6 | 0.82 | 26.5 | 2.3 | 2.3 | 7.8 | 0.029232 | 65 | 37 |
| EM3-132S-4 | 5.5 | 7.5 | 1460 | 11.8 | 11.2 | 10.8 | 89.6 | 0.83 | 36 | 2 | 2.3 | 7.9 | 0.039339 | 71 | 48.5 |
| EM3-132M-4 | 7.5 | 10 | 1460 | 15.8 | 15.0 | 14.4 | 90.4 | 0.84 | 49.1 | 2 | 2.3 | 7.5 | 0.04185 | 71 | 60 |

ALUMINIUM - IE3 6 POLE

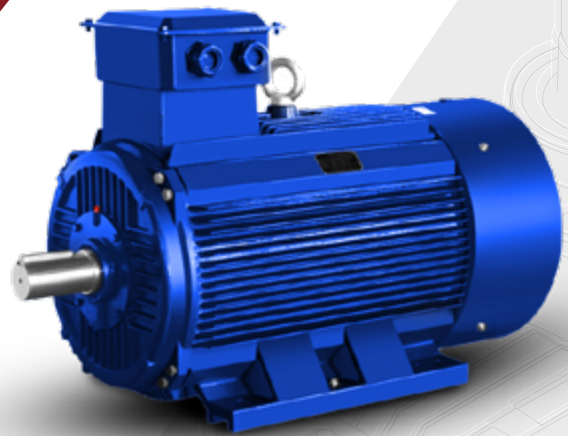
| Motor Type | Rated Output | | Rated Speed rpm | IFL 380V (AMP) | IFL 400V (AMP) | IFL 415V (AMP) | EFF % | Power Factor | Rated Torque Nm | Locked Rotor Torque TST/ TFL | Maximum Torque TM/ TFL | Locked Rotor Current IST/ IFL | M of J kgm2 | Noise Level LW dB(A) | Net Weight kg |
|-------------|--------------|-----|-----------------|----------------|----------------|----------------|-------|--------------|-----------------|------------------------------|------------------------|-------------------------------|-------------|----------------------|---------------|
| | kW | HP | | | | | | | | | | | | | |
| EM3-90S-6 | 0.75 | 1 | 935 | 2.14 | 2.03 | 1.96 | 78.9 | 0.71 | 7.66 | 2 | 2.1 | 6 | 0.013984 | 57 | 14 |
| EM3-90L-6 | 1.1 | 1.5 | 945 | 2.97 | 2.82 | 2.72 | 81 | 0.73 | 11.1 | 2 | 2.1 | 6 | 0.015295 | 57 | 18 |
| EM3-100L-6 | 1.5 | 2 | 949 | 3.97 | 3.77 | 3.64 | 82.5 | 0.73 | 15.1 | 2 | 2.1 | 6.5 | 0.02145 | 61 | 29.5 |
| EM3-112M-6 | 2.2 | 3 | 955 | 5.63 | 5.35 | 5.16 | 84.3 | 0.74 | 22 | 2 | 2.1 | 6.6 | 0.029232 | 65 | 32 |
| EM3-132S-6 | 3 | 4 | 968 | 7.56 | 7.18 | 6.92 | 85.6 | 0.74 | 29.6 | 2 | 2.1 | 6.8 | 0.039339 | 69 | 43 |
| EM3-132MA-6 | 4 | 5.5 | 968 | 9.93 | 9.43 | 9.09 | 86.8 | 0.74 | 39.5 | 2 | 2.1 | 6.8 | 0.04185 | 69 | 49 |
| EM3-132MB-6 | 5.5 | 7.5 | 968 | 13.3 | 12.6 | 12.2 | 88 | 0.75 | 54.3 | 2 | 2.1 | 7 | 0.04185 | 69 | 59 |
| EM3-160M-6 | 7.5 | 10 | 970 | 17.0 | 16.2 | 15.6 | 89.1 | 0.79 | 73.8 | 2 | 2.1 | 7 | 0.08316 | 73 | 82 |

DUAL SPEED MOTORS

*THREE-PHASE ASYNCHRONOUS MOTORS
CAST IRON / ALUMINIUM HOUSING*

The Dual Speed series of three-phase asynchronous motors are available in cast iron and aluminium housing and are Totally Enclosed Fan Cooled (TEFC). These motors have the ability to operate at various power outputs and speeds, offering a wide range of options.

They use unique winding technology to ensure dependable performance, easy maintenance, and a professional appearance, while producing minimal noise and vibration. These motors are commonly used in the fan and pump industry.



TENV MOTORS

*THREE-PHASE ASYNCHRONOUS MOTORS
ALUMINIUM HOUSING*

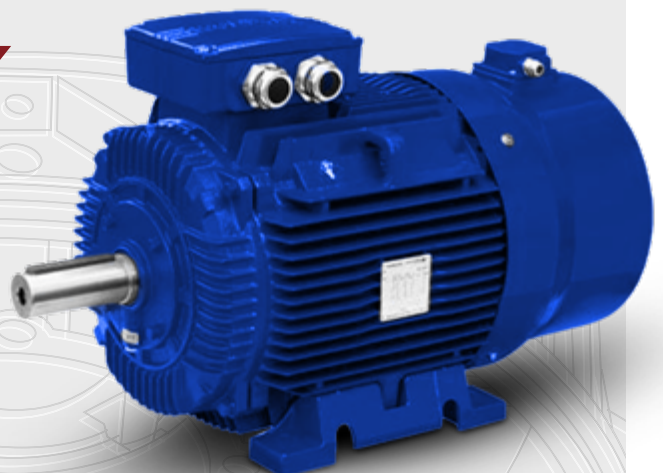
The TENV series comprises of three-phase asynchronous motors that are Totally Enclosed Fan Cooled (TEFC). They are available in both cast iron and aluminium housing. These motors are a modified version of our standard induction motors and share the same technical data. TENV motors do not come with a fan blade and fan cover but include a 1-meter wire extension with a detached T-box as standard issue. These motors are suitable for fan duty applications.

INVERTER MOTORS

*THREE-PHASE ASYNCHRONOUS MOTORS
CAST IRON / ALUMINIUM HOUSING*

The Inverter Duty Series of motors come in cast iron and aluminum housing and are Totally Enclosed Fan Cooled (TEFC). These motors are an improvement of our standard induction motors and have the same technical specifications.

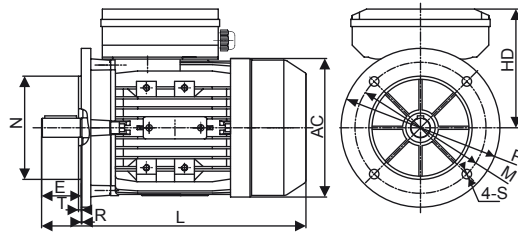
Inverter duty motors can be used with any VFD/VSD brand and can operate continuously at frequencies ranging from 5Hz to 100Hz. They also come with a Force Cooling Fan, longer rotor and stator, and reinforced corona resistance as standard features.



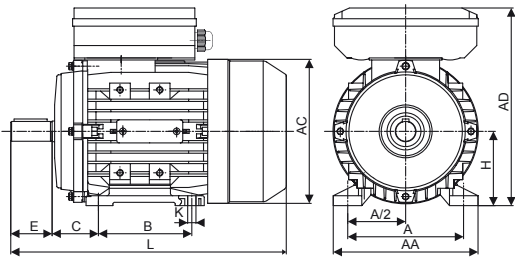
DIMENSIONAL DRAWING

SINGLE PHASE MOTORS

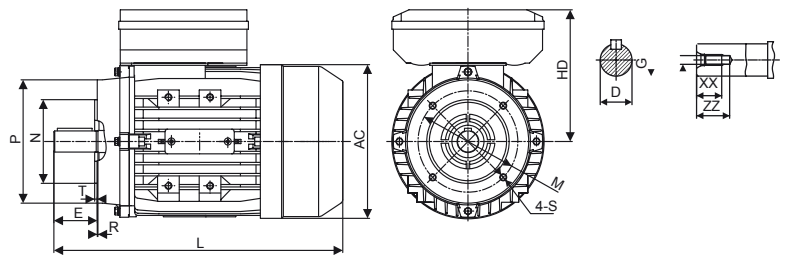
*all dimensions are measured in mm



FLANGE MOUNTED B5



FOOT MOUNTED B3



FOOT & FLANGE MOUNTED B35

SINGLE PHASE - SINGLE CAPACITOR

| Frame | Installation Dimensions (mm) | | | | | | | | | | | | | | | | | | | | Overall Dimensions (mm) | | | | | |
|----------|------------------------------|-----|----|----|----|---|------|-----|-----|--------|-----|-----|---|----|--------|-----|-----|-----|---|----|-------------------------|-----|-----|-----|-----|-----|
| | IM B3 | | | | | | | | | IM B14 | | | | | IM B35 | | | | | | AB | AC | AD | HD | L | |
| | A | B | C | D | E | F | G | H | K | M | N | P | R | S | T | M | N | P | R | S | | | | | | T |
| EMY 56 | 90 | 71 | 36 | 9 | 20 | 3 | 7.2 | 56 | 5.8 | 65 | 50 | 80 | 0 | M5 | 2.5 | 100 | 80 | 120 | 0 | 7 | 3 | 110 | 108 | 88 | 144 | 198 |
| EMY 63 | 100 | 80 | 40 | 11 | 23 | 4 | 8.5 | 63 | 7 | 75 | 60 | 90 | 0 | M5 | 2.5 | 115 | 95 | 140 | 0 | 10 | 3 | 120 | 119 | 119 | 182 | 216 |
| EMY 71 | 112 | 90 | 45 | 14 | 30 | 5 | 11 | 71 | 7 | 85 | 70 | 105 | 0 | M6 | 2.5 | 130 | 110 | 160 | 0 | 10 | 3.5 | 132 | 137 | 126 | 197 | 250 |
| EMY 80 | 125 | 100 | 50 | 19 | 40 | 6 | 15.5 | 80 | 10 | 100 | 80 | 120 | 0 | M6 | 3.0 | 165 | 130 | 200 | 0 | 12 | 3.5 | 160 | 155 | 149 | 229 | 278 |
| EMY 90S | 140 | 100 | 56 | 24 | 50 | 8 | 20 | 90 | 10 | 115 | 95 | 140 | 0 | M8 | 3.0 | 165 | 130 | 200 | 0 | 12 | 3.5 | 175 | 172 | 153 | 243 | 296 |
| EMY 90L | 140 | 125 | 56 | 24 | 50 | 8 | 20 | 90 | 10 | 115 | 95 | 140 | 0 | M8 | 3.0 | 165 | 130 | 200 | 0 | 12 | 3.5 | 175 | 172 | 153 | 243 | 322 |
| EMY 100L | 160 | 140 | 63 | 28 | 60 | 8 | 24 | 100 | 12 | 130 | 110 | 160 | 0 | M8 | 3.5 | 215 | 180 | 250 | 0 | 15 | 4.0 | 198 | 194 | 162 | 262 | 352 |

SINGLE PHASE - DUAL CAPACITOR

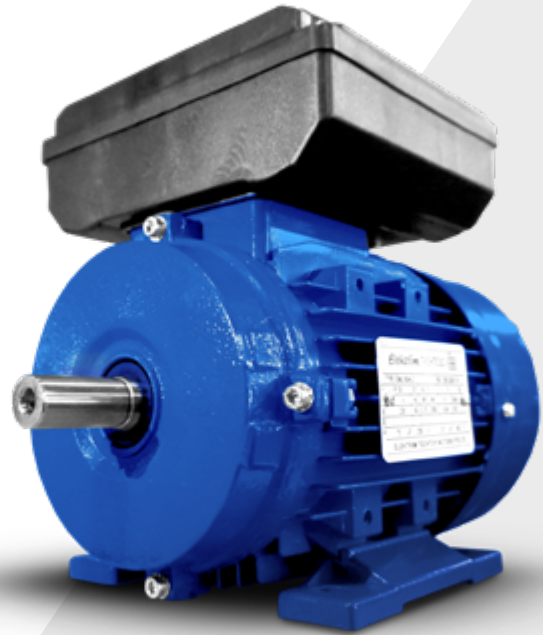
| Frame | Installation Dimensions (mm) | | | | | | | | | | | | | | | | | | | | Overall Dimensions (mm) | | | | | |
|----------|------------------------------|-----|----|----|----|---|------|-----|----|--------|-----|-----|---|----|--------|-----|-----|-----|---|----|-------------------------|-----|-----|-----|-----|-----|
| | IM B3 | | | | | | | | | IM B14 | | | | | IM B35 | | | | | | AB | AC | AD | HD | L | |
| | A | B | C | D | E | F | G | H | K | M | N | P | R | S | T | M | N | P | R | S | | | | | | T |
| EML 63 | 100 | 80 | 40 | 11 | 23 | 4 | 8.5 | 63 | 7 | 75 | 60 | 90 | 0 | M5 | 2.5 | 115 | 95 | 140 | 0 | 10 | 3 | 120 | 119 | 118 | 181 | 231 |
| EML 71 | 112 | 90 | 45 | 14 | 30 | 5 | 11 | 71 | 7 | 85 | 70 | 105 | 0 | M6 | 2.5 | 130 | 110 | 160 | 0 | 10 | 3.5 | 132 | 137 | 125 | 196 | 250 |
| EML 80 | 125 | 100 | 50 | 19 | 40 | 6 | 15.5 | 80 | 10 | 100 | 80 | 120 | 0 | M6 | 3.0 | 165 | 130 | 200 | 0 | 12 | 3.5 | 160 | 155 | 146 | 226 | 278 |
| EML 90S | 140 | 100 | 56 | 24 | 50 | 8 | 20 | 90 | 10 | 115 | 95 | 140 | 0 | M8 | 3 | 165 | 130 | 200 | 0 | 12 | 3.5 | 175 | 172 | 151 | 241 | 352 |
| EML 90L | 140 | 125 | 56 | 24 | 50 | 8 | 20 | 90 | 10 | 115 | 95 | 140 | 0 | M8 | 3.0 | 165 | 130 | 200 | 0 | 12 | 3.5 | 175 | 172 | 151 | 241 | 352 |
| EML 100L | 160 | 140 | 63 | 28 | 60 | 8 | 24 | 100 | 12 | 130 | 110 | 160 | 0 | M8 | 3.5 | 215 | 180 | 250 | 0 | 15 | 4.0 | 198 | 194 | 162 | 262 | 414 |
| EML 112M | 190 | 140 | 70 | 28 | 60 | 8 | 24 | 112 | 12 | 130 | 110 | 160 | 0 | M8 | 3.5 | 215 | 180 | 250 | 0 | 15 | 4.0 | 220 | 217 | 186 | 298 | 424 |

SINGLE PHASE MOTORS

SINGLE-PHASE ASYNCHRONOUS MOTORS ALUMINIUM HOUSING

The Single Phase series of motors are equipped with either a single or dual capacitor. These motors are created with high-quality materials and adhere to IEC standards. They offer dependable operation, good performance, and safety, and are ideal for low voltage applications.

This series of motors is well-suited for use in air compressors, industrial fans and blowers, and various other small machinery.



TECHNICAL DATA

SINGLE PHASE - SINGLE CAPACITOR 2 POLE

| Motor Type | Rated Output | | Voltage (V) | Rated Current In(A) | Rated Speed (r/min) | Efficiency (%) | Full Load Power Factor (cos φ) | Ist (A) | Tst/Tn | Tmax/Tn | Net Weight IM B3 (kg) |
|------------|--------------|------|-------------|---------------------|---------------------|----------------|--------------------------------|---------|--------|---------|-----------------------|
| | HP | KW | | | | | | | | | |
| EMY 56A-2 | 1/8 | 0.09 | 230 | 0.75 | 2800 | 56 | 0.92 | 3.0 | 0.5 | 1.7 | 2.5 |
| EMY 56B-2 | 1/6 | 0.12 | 230 | 0.94 | 2800 | 60 | 0.92 | 4.0 | 0.5 | 1.7 | 3.0 |
| EMY 63A-2 | 1/4 | 0.18 | 230 | 1.31 | 2800 | 65 | 0.92 | 5.0 | 0.4 | 1.7 | 4.2 |
| EMY 63B-2 | 1/3 | 0.25 | 230 | 1.79 | 2800 | 66 | 0.92 | 7.0 | 0.4 | 1.7 | 4.5 |
| EMY 71A-2 | 1/2 | 0.37 | 230 | 2.61 | 2800 | 67 | 0.92 | 10 | 0.35 | 1.7 | 5.7 |
| EMY 71B-2 | 3/4 | 0.55 | 230 | 3.71 | 2800 | 70 | 0.92 | 15 | 0.35 | 1.7 | 6.7 |
| EMY 80A-2 | 1 | 0.75 | 230 | 4.93 | 2800 | 72 | 0.92 | 20 | 0.33 | 1.7 | 9.3 |
| EMY 80B-2 | 1.5 | 1.1 | 230 | 6.71 | 2800 | 75 | 0.95 | 30 | 0.33 | 1.7 | 10.6 |
| EMY 90S-2 | 2 | 1.5 | 230 | 9.03 | 2800 | 76 | 0.95 | 40 | 0.30 | 1.7 | 13 |
| EMY 90L-2 | 3 | 2.2 | 230 | 13.08 | 2800 | 77 | 0.95 | 65 | 0.30 | 1.7 | 16 |
| EMY 100L-2 | 4 | 3 | 230 | 17.8 | 2800 | 79 | 0.95 | 92 | 0.30 | 1.7 | 25 |

SINGLE PHASE - SINGLE CAPACITOR 4 POLE

| Motor Type | Rated Output | | Voltage (V) | Rated Current In(A) | Rated Speed (r/min) | Efficiency (%) | Full Load Power Factor (cos φ) | Ist (A) | Tst/Tn | Tmax/Tn | Net Weight IM B3 (kg) |
|-------------|--------------|------|-------------|---------------------|---------------------|----------------|--------------------------------|---------|--------|---------|-----------------------|
| | HP | KW | | | | | | | | | |
| EMY 56A-4 | 1/12 | 0.06 | 230 | 0.58 | 1400 | 50 | 0.90 | 2.0 | 0.45 | 1.7 | 2.8 |
| EMY 56B-4 | 1/8 | 0.09 | 230 | 0.83 | 1400 | 52 | 0.90 | 3.0 | 0.45 | 1.7 | 3.4 |
| EMY 63A-4 | 1/6 | 0.12 | 230 | 1.01 | 1400 | 57 | 0.90 | 3.5 | 0.40 | 1.7 | 4.0 |
| EMY 63B-4 | 1/4 | 0.18 | 230 | 1.33 | 1400 | 59 | 0.90 | 5.0 | 0.40 | 1.7 | 4.5 |
| EMY 71A-4 | 1/3 | 0.25 | 230 | 1.93 | 1400 | 61 | 0.92 | 7.0 | 0.35 | 1.7 | 5.5 |
| EMY 71B-4 | 1/2 | 0.37 | 230 | 2.82 | 1400 | 62 | 0.92 | 10 | 0.35 | 1.7 | 6.5 |
| EMY 80A-4 | 3/4 | 0.55 | 230 | 4.07 | 1400 | 64 | 0.92 | 15 | 0.35 | 1.7 | 9.1 |
| EMY 80B-4 | 1 | 0.75 | 230 | 5.21 | 1400 | 68 | 0.92 | 20 | 0.32 | 1.7 | 10.4 |
| EMY 90S-4 | 1.5 | 1.1 | 230 | 7.13 | 1400 | 71 | 0.95 | 30 | 0.32 | 1.7 | 13 |
| EMY 90L-4 | 2 | 1.5 | 230 | 9.4 | 1400 | 73 | 0.95 | 40 | 0.30 | 1.7 | 16 |
| EMY 100LA-4 | 3 | 2.2 | 230 | 13.6 | 1400 | 76 | 0.95 | 65 | 0.30 | 1.7 | 22 |
| EMY 100LB-4 | 4 | 3 | 230 | 18 | 1400 | 77 | 0.95 | 88 | 0.30 | 1.7 | 29 |

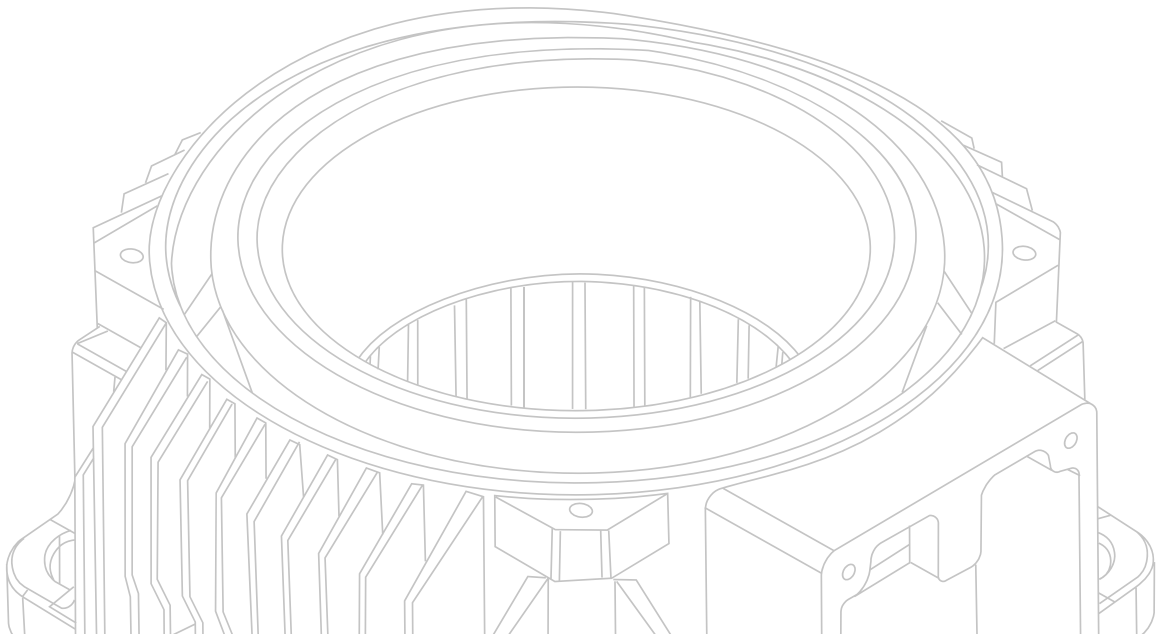
TECHNICAL DATA

SINGLE PHASE - DUAL CAPACITOR 2 POLE

| Motor Type | Rated Output | | Voltage (V) | Rated Current In(A) | Rated Speed (r/min) | Efficiency (%) | Full Load Power Factor (cos φ) | Ist (A) | Tst/Tn | Tmax/Tn | Net Weight IM B3 (kg) |
|------------|--------------|------|-------------|---------------------|---------------------|----------------|--------------------------------|---------|--------|---------|-----------------------|
| | HP | KW | | | | | | | | | |
| EML 63A-2 | 1/4 | 0.18 | 230 | 1.43 | 2800 | 60 | 0.92 | 7 | 1.8 | 1.8 | 3.9 |
| EML 63B-2 | 1/3 | 0.25 | 230 | 1.91 | 2800 | 63 | 0.92 | 10 | 1.8 | 1.8 | 4.3 |
| EML 71A-2 | 1/2 | 0.37 | 230 | 2.73 | 2800 | 67 | 0.92 | 16 | 2.3 | 1.8 | 5.8 |
| EML 71B-2 | 3/4 | 0.55 | 230 | 3.4 | 2800 | 73 | 0.95 | 21 | 2.5 | 1.8 | 6.8 |
| EML 80A-2 | 1 | 0.75 | 230 | 4.7 | 2800 | 73 | 0.95 | 30 | 2.5 | 1.8 | 9.6 |
| EML 80B-2 | 1.5 | 1.1 | 230 | 7.02 | 2800 | 75 | 0.95 | 40 | 2.5 | 1.8 | 11.3 |
| EML 90S-2 | 2 | 1.5 | 230 | 9.44 | 2800 | 76 | 0.95 | 55 | 2.5 | 1.8 | 13 |
| EML 90L-2 | 3 | 2.2 | 230 | 13.67 | 2800 | 77 | 0.95 | 70 | 2.5 | 1.8 | 16 |
| EML 100L-2 | 4 | 3 | 230 | 18.2 | 2800 | 79 | 0.95 | 100 | 2.2 | 1.8 | 26 |
| EML 112M-2 | 5.5 | 4 | 230 | 22.5 | 2800 | 78 | 0.95 | 120 | 1.8 | 1.8 | 36 |

SINGLE PHASE - DUAL CAPACITOR 4 POLE

| Motor Type | Rated Output | | Voltage (V) | Rated Current In(A) | Rated Speed (r/min) | Efficiency (%) | Full Load Power Factor (cos φ) | Ist (A) | Tst/Tn | Tmax/Tn | Net Weight IM B3 (kg) |
|-------------|--------------|------|-------------|---------------------|---------------------|----------------|--------------------------------|---------|--------|---------|-----------------------|
| | HP | KW | | | | | | | | | |
| EML 63A-4 | 1/6 | 0.12 | 230 | 1.24 | 1400 | 55 | 0.90 | 6 | 1.8 | 1.8 | 4.1 |
| EML 63B-4 | 1/4 | 0.18 | 230 | 1.43 | 1400 | 56 | 0.90 | 8 | 1.8 | 1.8 | 4.9 |
| EML 71A-4 | 1/3 | 0.25 | 230 | 1.99 | 1400 | 62 | 0.92 | 12 | 2.5 | 1.8 | 5.8 |
| EML 71B-4 | 1/2 | 0.37 | 230 | 2.81 | 1400 | 65 | 0.92 | 16 | 2.5 | 1.8 | 6.8 |
| EML 80A-4 | 3/4 | 0.55 | 230 | 3.6 | 1400 | 69 | 0.92 | 21 | 2.5 | 1.8 | 9.1 |
| EML 80B-4 | 1 | 0.75 | 230 | 5.22 | 1400 | 71 | 0.95 | 25 | 2.5 | 1.8 | 10.4 |
| EML 90S-4 | 1.5 | 1.1 | 230 | 6.9 | 1400 | 72 | 0.95 | 40 | 2.5 | 1.8 | 13 |
| EML 90L-4 | 2 | 1.5 | 230 | 9.3 | 1400 | 74 | 0.95 | 50 | 2.5 | 1.8 | 16 |
| EML 100LA-4 | 3 | 2.2 | 230 | 13.9 | 1400 | 76 | 0.95 | 80 | 2.5 | 1.8 | 26 |
| EML 100LB-4 | 4 | 3 | 230 | 17.6 | 1400 | 78 | 0.95 | 100 | 2.5 | 1.8 | 31 |
| EML 112M-4 | 5.5 | 4 | 230 | 22 | 1400 | 79 | 0.95 | 130 | 2.5 | 1.8 | 35 |

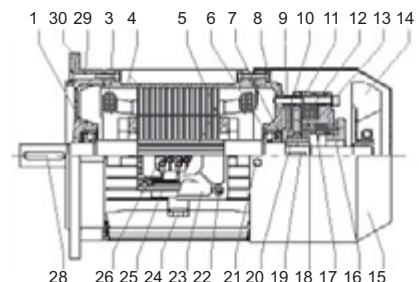
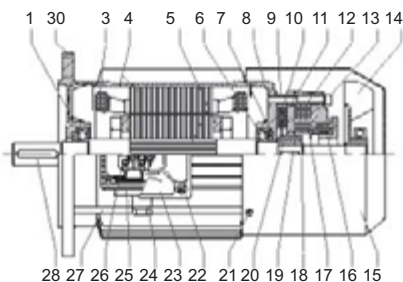
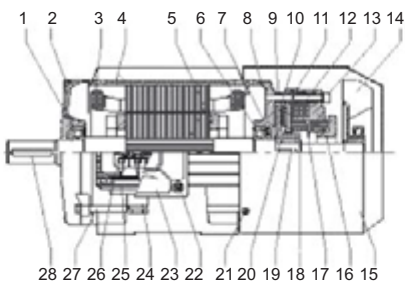
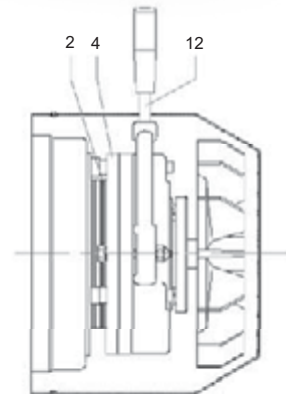
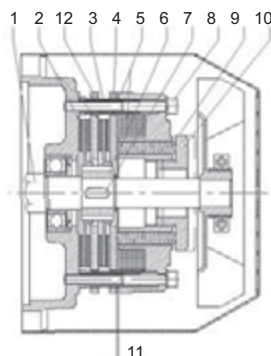
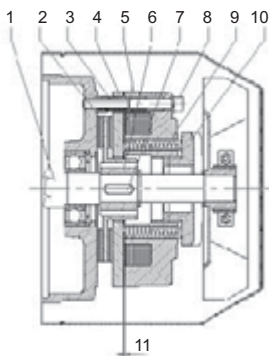
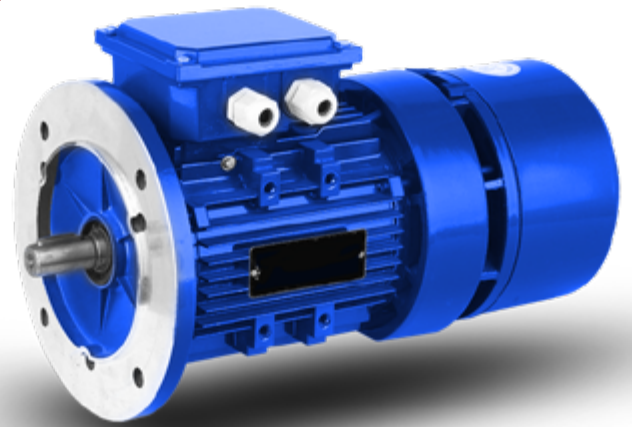


BRAKE MOTORS

THREE-PHASE ASYNCHRONOUS MOTORS
CAST IRON / ALUMINIUM HOUSING

The Brake Motors Series result from coupling an asynchronous three-phase motor to an electromagnetic DC brake unit.

Due to their reliability and operating safety, as well as their quick braking time (connection and disconnection time = 5 to 80 milliseconds), this series of motors is suitable for a great variety of applications, such as braking loads or torques on the drive shaft, reducing lost time by braking rotating masses, increasing set-up precision through braking operations, and braking operation in accordance with safety rules.



B3 63~160

B5 63~112

B5 132~160

SPARE PARTS

1. FRONT BEARING
2. FRONT SHIELD
3. WINDING
4. FRAME WITH STATOR PACKAGE
5. SHAFT WITH ROTOR
6. REAR BEARING
7. SPRING
8. REAR SHIELD
9. ADJUSTING BUSH
10. BRAKE DISC

11. MOVING ANCHOR
12. ELECTROMAGNET COIL WITH DIODE
13. FIXING SCREWS FOR BRAKE
14. COOLING FAN
15. FAN HOOD
16. RING NUT
17. SPRING
18. SEE GEARING
19. KEY BRAKE SIDE
20. TOOTHED PINION

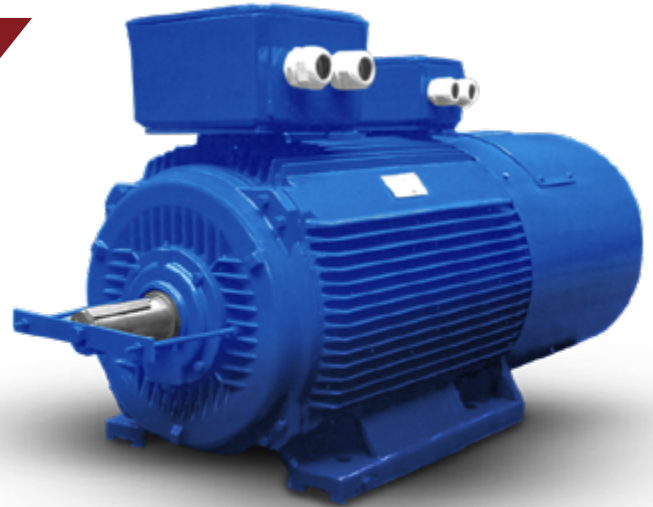
21. FIXING SCREW FOR FAN HOOD
22. FIXING SCREW FOR TERMINAL-BOX
23. TERMINAL-BOX
24. ABLE-HOLDER
25. PACKING
26. TERMINAL-BLOCK
27. TIE-BOLT
28. COUPLING SIDE KEY
29. FIXING SCREW FOR SHIELD
30. FLANGE SHIELD

SLIP RING MOTORS

THREE-PHASE ASYNCHRONOUS MOTORS CAST IRON HOUSING

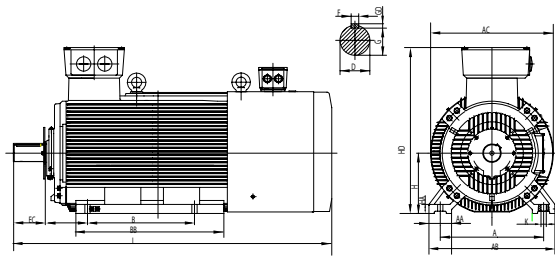
The Slip Ring range of three-phase asynchronous motors is ideal for meeting the specific needs of clients who require high torque motors. These motors are exclusively housed in cast iron due to their heavy-duty nature and well-designed exterior, while also conforming to all IEC standards.

Our in-house designed slip ring device, featuring carbon brushes made from high-quality materials and adhering to European motor winding standards and technology, is included with every slip ring motor. These motors are suitable for use in all heavy-duty industries.

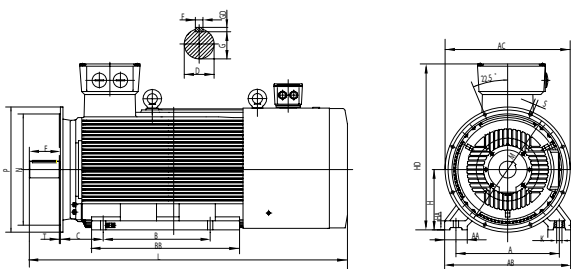


DIMENSIONAL DRAWING

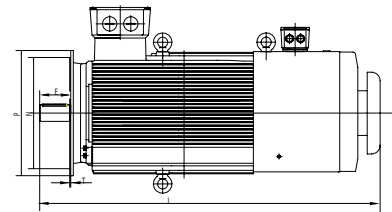
SLIP RING MOTORS



FOOT MOUNTED B3



FOOT & FLANGE MOUNTED B35



FLANGE MOUNTED B5 & V1

| Frame Size | A | B | C | D | E | FxGD | G | H | K | M | N | P | S | T | AA | AB | AC | HA | HD | BB | L |
|------------|-----|-----|-----|-----|-----|-------|------|-----|----|-----|-----|------|-------|----|-----|-----|-----|----|------|-----|------|
| 200L | 318 | 305 | 133 | 55 | 110 | 16x10 | 49 | 200 | 19 | 350 | 300 | 400 | 4xΦ19 | 5 | 70 | 388 | 420 | 25 | 525 | 375 | 970 |
| 225M | 356 | 311 | 149 | 60 | 140 | 18x11 | 53 | 225 | 19 | 400 | 350 | 450 | 8xΦ19 | 6 | 75 | 435 | 446 | 28 | 555 | 400 | 1061 |
| 250M | 406 | 349 | 168 | 65 | 140 | 18x11 | 58 | 250 | 24 | 500 | 450 | 550 | 8xΦ19 | 6 | 80 | 490 | 495 | 30 | 615 | 450 | 1150 |
| 280S | 457 | 368 | 190 | 75 | 140 | 20x12 | 67.5 | 280 | 24 | 500 | 450 | 550 | 8xΦ19 | 6 | 85 | 550 | 560 | 35 | 700 | 490 | 1260 |
| 280M | 457 | 419 | 190 | 75 | 140 | 20x12 | 67.5 | 280 | 24 | 500 | 450 | 550 | 8xΦ19 | 6 | 85 | 550 | 560 | 35 | 700 | 540 | 1310 |
| 315S | 508 | 406 | 216 | 80 | 170 | 22x14 | 71 | 315 | 28 | 600 | 550 | 660 | 8xΦ24 | 6 | 125 | 635 | 635 | 45 | 870 | 680 | 1700 |
| 315M | 508 | 457 | 216 | 80 | 170 | 22x14 | 71 | 315 | 28 | 600 | 550 | 660 | 8xΦ24 | 6 | 125 | 635 | 635 | 45 | 870 | 680 | 1700 |
| 315L | 508 | 508 | 216 | 80 | 170 | 22x14 | 71 | 315 | 28 | 600 | 550 | 660 | 8xΦ24 | 6 | 125 | 635 | 635 | 45 | 870 | 680 | 1700 |
| 355M | 610 | 560 | 254 | 100 | 210 | 28x16 | 90 | 355 | 28 | 740 | 680 | 800 | 8xΦ24 | 6 | 125 | 730 | 710 | 52 | 1010 | 750 | 1910 |
| 355L | 610 | 630 | 254 | 100 | 210 | 28x16 | 90 | 355 | 28 | 740 | 680 | 800 | 8xΦ24 | 6 | 125 | 730 | 710 | 52 | 1010 | 750 | 1910 |
| 400L | 686 | 710 | 280 | 110 | 210 | 28x16 | 100 | 400 | 35 | 975 | 925 | 1060 | 8xΦ24 | 10 | 150 | 840 | 820 | 60 | 1105 | 985 | 2115 |

SLIP RING 4 POLE

| Model | Output (k/w) | Speed (r/min) | Rotor Current | | Efficiency (%) | P.F. Cos (Φ) | Max. Torque | Rotor Voltage (V) | Rotor Amp (A) | Noise dB(A) | Rotary Inertia (kg.m) | Weight (Kg) |
|---------|--------------|---------------|---------------|--------|----------------|--------------|-------------|-------------------|---------------|-------------|-----------------------|-------------|
| | | | 380V/Δ | 415V/Δ | | | | | | | | |
| 200L1-4 | 18.5 | 1470 | 33.9 | 31 | 89.80% | 0.86 | 3.7 | 239 | 47.6 | 94 | 0.29 | 272 |
| 200L2-4 | 22 | 1470 | 40 | 36.6 | 90.70% | 0.86 | 3.7 | 281 | 48 | 94 | 0.32 | 286 |
| 225M2-4 | 30 | 1475 | 52.3 | 47.9 | 91.70% | 0.89 | 3.3 | 350 | 51.5 | 98 | 0.63 | 376 |
| 250M1-4 | 37 | 1480 | 67 | 61.3 | 91.80% | 0.86 | 3.6 | 290 | 79 | 98 | 0.87 | 460 |
| 250M2-4 | 45 | 1480 | 80.2 | 73.4 | 92.50% | 0.87 | 3.6 | 338.7 | 81.7 | 100 | 0.98 | 520 |
| 280S-4 | 55 | 1472 | 95 | 87 | 92.00% | 0.91 | 3.2 | 484 | 71 | 100 | 1.86 | 655 |
| 280M-4 | 75 | 1477 | 128 | 117.2 | 92.50% | 0.91 | 3.9 | 277 | 166 | 103 | 2.41 | 765 |
| 315S-4 | 90 | 1476 | 157 | 143.8 | 92.80% | 0.89 | 3 | 296 | 187 | 103 | 3.97 | 1175 |
| 315M-4 | 110 | 1481 | 192 | 175.8 | 93.50% | 0.88 | 3.7 | 328 | 203 | 103 | 4.59 | 1263 |
| 315L1-4 | 132 | 1483 | 230 | 210.6 | 94.00% | 0.88 | 4 | 399 | 200 | 106 | 5.33 | 1338 |
| 315L2-4 | 160 | 1484 | 275 | 251.8 | 94.50% | 0.89 | 4 | 505 | 191 | 106 | 6.11 | 1450 |
| 355M1-4 | 200 | 1484 | 344 | 315 | 94.00% | 0.89 | 2.7 | 627 | 194 | 106 | 10.03 | 1952 |
| 355M2-4 | 250 | 1486 | 438 | 401 | 94.50% | 0.86 | 3.5 | 723 | 207 | 108 | 11.33 | 2078 |
| 355L-4 | 280 | 1488 | 489 | 447.8 | 94.80% | 0.87 | 3.5 | 704 | 238 | 108 | 12.47 | 2194 |
| 400L1-4 | 315 | 1485 | 524 | 479.8 | 95.00% | 0.91 | 2.8 | 557 | 340 | 111 | 17.85 | 3390 |
| 400L2-4 | 355 | 1486 | 587 | 537.5 | 95.20% | 0.91 | 2.8 | 620 | 344 | 111 | 19.34 | 3515 |
| 400L3-4 | 400 | 1487 | 659 | 603.4 | 95.50% | 0.91 | 2.8 | 698 | 343 | 111 | 21.11 | 3655 |

SLIP RING 6 POLE

| Model | Output (k/w) | Speed (r/min) | Rotor Current | | Efficiency (%) | P.F. Cos (Φ) | Max. Torque | Rotor Voltage (V) | Rotor Amp (A) | Noise dB(A) | Rotary Inertia (kg.m) | Weight (Kg) |
|---------|--------------|---------------|---------------|--------|----------------|--------------|-------------|-------------------|---------------|-------------|-----------------------|-------------|
| | | | 380V/Δ | 415V/Δ | | | | | | | | |
| 200L2-6 | 15 | 980 | 29.4 | 26.9 | 89.20% | 0.81 | 3.1 | 199.3 | 48.1 | 88 | 0.41 | 277 |
| 22M1-6 | 18.5 | 980 | 35.3 | 32.3 | 89.00% | 0.83 | 2.7 | 187 | 62.5 | 88 | 0.65 | 335 |
| 22M2-6 | 22 | 980 | 41.6 | 38.1 | 89.50% | 0.83 | 2.7 | 224 | 61 | 88 | 0.72 | 360 |
| 250M1-6 | 30 | 985 | 55.3 | 50.6 | 91.00% | 0.84 | 3.5 | 284.7 | 66.3 | 91 | 1.22 | 480 |
| 250M2-6 | 37 | 985 | 68.9 | 63.1 | 91.50% | 0.84 | 3.5 | 338 | 69 | 91 | 1.35 | 520 |
| 280S-6 | 45 | 985 | 81.9 | 75 | 92.00% | 0.86 | 3.6 | 361 | 77.6 | 94 | 2.41 | 645 |
| 280M-6 | 55 | 985 | 98.4 | 90.1 | 92.50% | 0.86 | 3.4 | 486 | 70.1 | 94 | 2.74 | 695 |
| 315S-6 | 75 | 987 | 137 | 125.4 | 93.00% | 0.85 | 2.8 | 266 | 172 | 98 | 5.48 | 1220 |
| 315M-6 | 90 | 989 | 163 | 149.2 | 93.50% | 0.85 | 2.8 | 322 | 169 | 98 | 6.25 | 1335 |
| 315L1-6 | 110 | 989 | 194 | 177.6 | 94.00% | 0.87 | 2.8 | 381 | 175 | 98 | 7.3 | 1421 |
| 315L2-6 | 132 | 990 | 234 | 214.3 | 94.20% | 0.86 | 2.8 | 464 | 171 | 98 | 8.45 | 1430 |
| 355M1-6 | 160 | 991 | 291 | 266.5 | 94.50% | 0.83 | 2.8 | 470 | 205 | 102 | 12.28 | 1950 |
| 355M2-6 | 200 | 991 | 353 | 323.2 | 94.80% | 0.84 | 2.7 | 575 | 209 | 102 | 14.86 | 2164 |
| 355L-6 | 220 | 992 | 388 | 355.3 | 94.80% | 0.84 | 2.7 | 647 | 204 | 102 | 16.71 | 2273 |
| 400L1-6 | 250 | 989 | 444 | 406.6 | 94.50% | 0.85 | 2.6 | 446 | 337 | 108 | 20.69 | 3345 |
| 400L2-6 | 315 | 990 | 553 | 506.4 | 94.80% | 0.86 | 2.6 | 536 | 352 | 108 | 23.73 | 3545 |
| 400L3-6 | 355 | 992 | 627 | 574.1 | 95.10% | 0.85 | 2.8 | 670 | 315 | 108 | 28.28 | 3835 |

SLIP RING 8 POLE

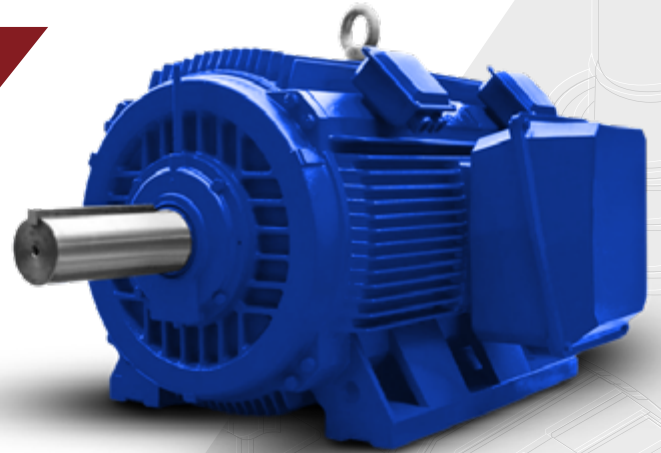
| Model | Output (k/w) | Speed (r/min) | Rotor Current | | Efficiency (%) | P.F. Cos (Φ) | Torque | Rotor Voltage (V) | Rotor Amp (A) | Noise dB(A) | Rotary Inertia (kg.m) | Weight (Kg) |
|---------|--------------|---------------|---------------|--------|----------------|--------------|--------|-------------------|---------------|-------------|-----------------------|-------------|
| | | | 380V/Δ | 415V/Δ | | | | | | | | |
| 200L1-8 | 11 | 730 | 23.7 | 21.7 | 87.90% | 0.75 | 2.4 | 147.3 | 47.3 | 82 | 0.41 | 276 |
| 225M1-8 | 15 | 735 | 31.9 | 29.2 | 89.30% | 0.75 | 2.4 | 169 | 56 | 86 | 0.71 | 357 |
| 225M2-8 | 18.5 | 735 | 39.1 | 35.8 | 89.50% | 0.75 | 2.4 | 211 | 54 | 86 | 0.83 | 387 |
| 250M1-8 | 22 | 735 | 44.5 | 40.7 | 90.00% | 0.78 | 3 | 213.9 | 64.9 | 86 | 1.18 | 480 |
| 250M2-8 | 30 | 735 | 61.5 | 56.3 | 90.50% | 0.77 | 3 | 274 | 68.4 | 90 | 1.4 | 520 |
| 280S-8 | 37 | 740 | 74 | 67.8 | 91.30% | 0.79 | 3 | 281.4 | 81.7 | 90 | 2.36 | 645 |
| 280M-8 | 45 | 740 | 86.3 | 79 | 92.30% | 0.8 | 3 | 357.7 | 77.7 | 93 | 3 | 735 |
| 315S-8 | 55 | 742 | 104 | 95.2 | 92.50% | 0.79 | 2.4 | 486 | 69 | 93 | 5.24 | 1060 |
| 315M-8 | 75 | 742 | 139 | 127.3 | 93.30% | 0.8 | 2.4 | 498 | 91 | 96 | 6.82 | 1386 |
| 315L1-8 | 90 | 743 | 171.8 | 157.3 | 93.60% | 0.8 | 2.4 | 504 | 108 | 96 | 7.82 | 1475 |
| 315L2-8 | 110 | 743 | 209.4 | 191.7 | 94.00% | 0.8 | 2.6 | 514 | 129 | 96 | 9.21 | 1485 |
| 355M1-8 | 132 | 743 | 246 | 225.3 | 94.00% | 0.81 | 2.7 | 462 | 171 | 99 | 13.24 | 1908 |
| 355M2-8 | 160 | 744 | 294 | 269.2 | 94.50% | 0.82 | 2.7 | 562 | 170 | 99 | 16.05 | 2086 |
| 355L-8 | 185 | 744 | 345 | 315.9 | 94.50% | 0.8 | 2.8 | 655 | 168 | 99 | 17.84 | 2203 |
| 400L1-8 | 200 | 740 | 404 | 369.9 | 93.80% | 0.76 | 3 | 464 | 257 | 102 | 18.9 | 3275 |
| 400L2-8 | 250 | 740 | 498 | 456 | 94.00% | 0.76 | 3 | 557 | 267 | 105 | 21.94 | 3470 |
| 400L3-8 | 315 | 741 | 624 | 571.4 | 94.50% | 0.76 | 3 | 696 | 268 | 105 | 26.5 | 3765 |

NEMA MOTORS

THREE-PHASE ASYNCHRONOUS MOTORS CAST IRON / ALUMINIUM HOUSING

NEMA EPACT and Premium Efficiency 3-Phase Motors are available in cast iron TEFC and ODP styles, ranging from 1HP to 250HP and in frame sizes 143T through 449T. Customers can choose from a service factor of 1.15 or 1.25, and NEMA Design B or C options.

These motors are commonly used in applications such as pumps, compressors, and fan industries, as well as in energy-saving applications, conveyor systems, gear reducers, and applications that require Design C torque.



MODEL DATA

FEATURES

- 208-230/460V/60HZ OR 575V/60HZ
- NEMA SERVICE FACTOR 1.15/1.25
- CONTINUOUS DUTY 40°C AMBIENT
- TEFC (TOTALLY ENCLOSED FAN COOLED)
- CLASS F INSULATION WITH CLASS B TEMP RISE
- CAST IRON FRAMES
- NEMA DESIGN B OR C
- BALL BEARINGS
- IP55 PROTECTION
- UP TO 455T AVAILABLE WITH INTEGRAL OR REMOVABLE FEET

APPLICATIONS

- PUMPS
- COMPRESSORS
- FANS
- MACHINE TOOLS
- ENERGY SAVING APPLICATIONS
- OTHER GENERAL PURPOSE THREE PHASE APPLICATIONS

APPLICATIONS (DESIGN C)

- CONVEYORS
- GEAR REDUCERS
- APPLICATIONS REQUIRING DESIGN C TORQUE

TXC Series NEMA Premium Efficiency TEFC Motors Design A

| HP | Full Load Speed (r/min) | NEMA Frame | Full Load Current | | | Eff. 100% FL | Power Factor (cosΦ) | Full Load Torque lb-ft | KVA Code | Locked Rotor | | BDT (%FL) | Service Factor | Moment of inertia (lb*ft ²) | Net weight (lbs) |
|-----|-------------------------|------------|-------------------|-----------|-----------|--------------|---------------------|------------------------|----------|--------------|-----------|-----------|----------------|---|------------------|
| | | | 1230V (A) | 1460V (A) | 1575V (A) | | | | | LRA 230V (A) | LRT (%FL) | | | | |
| 1 | 3500 | 143T | 3 | 1.5 | 1.2 | 77 | 0.83 | 1.5 | K | 22 | 220 | 300 | 1.25 | 0.0278 | 41.2 |
| | 1740 | 143T | 3 | 1.5 | 1.2 | 85.5 | 0.75 | 3.02 | J | 19 | 280 | 300 | 1.25 | 0.0657 | 46.3 |
| | 1150 | 145T | 3.4 | 1.7 | 1.3 | 82.5 | 0.68 | 4.57 | H | 17 | 200 | 270 | 1.25 | 0.1153 | 52.9 |
| 1.5 | 3500 | 143T | 4 | 2 | 1.6 | 84 | 0.84 | 2.25 | K | 32 | 220 | 300 | 1.25 | 0.0373 | 41.9 |
| | 1740 | 145T | 4.4 | 2.2 | 1.7 | 86.5 | 0.75 | 4.53 | L | 34 | 280 | 300 | 1.25 | 0.0885 | 54 |
| | 1175 | 182T | 4.8 | 2.4 | 1.9 | 87.5 | 0.66 | 6.71 | L | 35 | 220 | 300 | 1.25 | 0.4286 | 93.7 |
| 2 | 3500 | 145T | 5.2 | 2.6 | 2.1 | 85.5 | 0.85 | 3 | L | 47 | 220 | 300 | 1.25 | 0.047 | 48.5 |
| | 1740 | 145T | 5.6 | 2.8 | 2.2 | 86.5 | 0.78 | 6.04 | K | 42 | 280 | 300 | 1.25 | 0.1113 | 59.5 |
| | 1175 | 184T | 6.2 | 3.1 | 2.5 | 88.5 | 0.68 | 8.94 | L | 46 | 220 | 300 | 1.25 | 0.57 | 112.5 |
| 3 | 3510 | 182T | 7.2 | 3.6 | 2.9 | 86.5 | 0.9 | 4.49 | K | 61 | 200 | 280 | 1.25 | 0.1115 | 82.7 |
| | 1750 | 182T | 8 | 4 | 3.2 | 89.5 | 0.79 | 9.01 | L | 71 | 220 | 300 | 1.25 | 0.2831 | 94.8 |
| | 1175 | 213T | 8.8 | 4.4 | 3.5 | 89.5 | 0.72 | 13.41 | K | 67 | 200 | 300 | 1.25 | 1.0268 | 147.7 |
| 5 | 3510 | 184T | 11.4 | 5.7 | 4.6 | 88.5 | 0.92 | 7.48 | K | 107 | 200 | 280 | 1.25 | 0.1607 | 97 |
| | 1750 | 184T | 12.6 | 6.3 | 5 | 89.5 | 0.83 | 15.01 | K | 108 | 220 | 300 | 1.25 | 0.3669 | 110.3 |
| | 1175 | 215T | 13.8 | 6.9 | 5.5 | 89.5 | 0.76 | 22.36 | K | 105 | 200 | 300 | 1.25 | 1.2912 | 172 |
| 7.5 | 3520 | 213T | 17.4 | 8.7 | 7 | 89.5 | 0.9 | 11.19 | J | 150 | 200 | 280 | 1.25 | 0.3479 | 140 |
| | 1750 | 213T | 17.8 | 8.9 | 7.1 | 91.7 | 0.86 | 22.52 | J | 142 | 200 | 250 | 1.25 | 0.9082 | 159 |
| | 1170 | 254T | 20.8 | 10.4 | 8.3 | 91 | 0.74 | 33.68 | K | 167 | 200 | 250 | 1.25 | 2.07 | 247 |
| 10 | 3520 | 215T | 22.6 | 11.3 | 9 | 90.2 | 0.92 | 14.93 | K | 214 | 200 | 280 | 1.25 | 0.4533 | 165 |
| | 1750 | 215T | 23.8 | 11.9 | 9.5 | 91.7 | 0.86 | 30.02 | J | 189 | 200 | 250 | 1.25 | 1.1149 | 182 |
| | 1175 | 256T | 27.8 | 13.9 | 11.1 | 91 | 0.74 | 44.72 | K | 222 | 200 | 250 | 1.25 | 2.6008 | 278 |
| 15 | 3550 | 254T | 33.6 | 16.8 | 13.4 | 91 | 0.92 | 22.2 | K | 303 | 200 | 280 | 1.25 | 1.2283 | 255 |
| | 1770 | 254T | 35.4 | 17.7 | 14.1 | 92.4 | 0.86 | 44.53 | J | 285 | 220 | 300 | 1.25 | 2.2164 | 279 |
| | 1180 | 284T | 37.8 | 18.9 | 15.1 | 91.7 | 0.81 | 66.79 | L | 340 | 200 | 280 | 1.25 | 5.7264 | 364 |
| 20 | 3550 | 256T | 45.2 | 22.6 | 18.1 | 91 | 0.91 | 29.6 | J | 379 | 200 | 280 | 1.25 | 1.3261 | 276 |
| | 1770 | 256T | 46.8 | 23.4 | 18.7 | 93 | 0.88 | 59.37 | K | 424 | 200 | 300 | 1.25 | 2.7824 | 331 |
| | 1180 | 286T | 49.8 | 24.9 | 19.9 | 91.7 | 0.82 | 89.05 | K | 442 | 200 | 280 | 1.25 | 6.6386 | 404 |
| 25 | 3545 | 284TS | 56.8 | 28.4 | 22.7 | 91.7 | 0.9 | 37.05 | H | 415 | 200 | 250 | 1.25 | 1.8016 | 354 |
| | 1775 | 284T | 58.2 | 29.1 | 23.3 | 93.6 | 0.86 | 74 | K | 545 | 220 | 300 | 1.25 | 3.5714 | 366 |
| | 1180 | 324T | 62.2 | 31.1 | 24.9 | 93 | 0.81 | 111.32 | K | 559 | 200 | 280 | 1.25 | 9.3474 | 501 |
| 30 | 3550 | 286TS | 68 | 34 | 27.2 | 91.7 | 0.9 | 44.4 | J | 598 | 200 | 250 | 1.25 | 1.9359 | 375 |
| | 1775 | 286T | 69.8 | 34.9 | 27.9 | 93.6 | 0.86 | 88.8 | K | 662 | 220 | 300 | 1.25 | 4.0399 | 397 |
| | 1180 | 326T | 74.6 | 37.3 | 29.8 | 93 | 0.81 | 133.58 | K | 671 | 200 | 280 | 1.25 | 10.6666 | 648 |
| 40 | 3555 | 324TS | 91 | 45.5 | 36.4 | 92.4 | 0.89 | 59.12 | H | 689 | 200 | 280 | 1.25 | 3.3692 | 485 |
| | 1780 | 324T | 93.6 | 46.8 | 37.5 | 94.1 | 0.85 | 118.07 | H | 680 | 200 | 220 | 1.25 | 7.1424 | 539 |
| | 1185 | 364T | 92.6 | 46.3 | 37 | 94.1 | 0.86 | 177.36 | K | 818 | 220 | 280 | 1.15 | 15.8991 | 725 |
| 50 | 3560 | 326TS | 111.8 | 55.9 | 44.7 | 93 | 0.9 | 73.79 | J | 939 | 200 | 280 | 1.25 | 4.0145 | 529 |
| | 1780 | 326T | 115.2 | 57.6 | 46.1 | 94.5 | 0.86 | 147.59 | J | 998 | 200 | 220 | 1.25 | 8.3396 | 601 |
| | 1185 | 365T | 116 | 58 | 46.3 | 94.1 | 0.86 | 221.69 | K | 1099 | 220 | 280 | 1.15 | 18.2263 | 792 |
| 60 | 3560 | 364TS | 134 | 67 | 53 | 93.6 | 0.9 | 88.55 | K | 1252 | 200 | 280 | 1.15 | 7.2912 | 762 |
| | 1780 | 364T | 136 | 68 | 54 | 95 | 0.87 | 177.11 | K | 1338 | 220 | 280 | 1.15 | 16.1862 | 783 |
| | 1185 | 404T | 140 | 70 | 56 | 94.5 | 0.85 | 266.03 | J | 1104 | 200 | 230 | 1.15 | 28.8796 | 976 |
| 75 | 3560 | 365TS | 165 | 82 | 66 | 93.6 | 0.91 | 110.69 | G | 1184 | 200 | 280 | 1.15 | 8.5 | 785 |
| | 1780 | 365T | 167.2 | 83.6 | 67 | 95.4 | 0.88 | 221.38 | K | 1675 | 220 | 280 | 1.15 | 18.9957 | 873 |
| | 1185 | 405T | 173 | 87 | 69 | 94.5 | 0.86 | 332.54 | H | 1303 | 200 | 230 | 1.15 | 34.1302 | 1045 |
| 100 | 3565 | 405TS | 222 | 111 | 88 | 94.1 | 0.9 | 147.38 | K | 2080 | 220 | 280 | 1.15 | 11.8424 | 1021 |
| | 1780 | 405T | 228 | 114 | 91 | 95.4 | 0.86 | 295.18 | L | 2266 | 220 | 280 | 1.15 | 20.8694 | 1025 |
| | 1190 | 444T | 230 | 115 | 92 | 95 | 0.86 | 441.53 | H | 1721 | 200 | 250 | 1.15 | 76.1733 | 1590 |
| 125 | 3570 | 444TS | - | 134 | 107 | 95 | 0.92 | 183.97 | K | 2512 | 200 | 250 | 1.15 | 22.397 | 1438 |
| | 1785 | 444T | - | 138 | 110 | 95.4 | 0.89 | 367.94 | K | 2536 | 250 | 320 | 1.15 | 45.1563 | 1480 |
| | 1190 | 445 | - | 147 | 117 | 95 | 0.84 | 551.91 | J | 2317 | 200 | 250 | 1.15 | 84.8372 | 1731 |
| 150 | 3570 | 445TS | - | 159 | 127 | 95 | 0.93 | 220.76 | H | 2652 | 200 | 250 | 1.15 | 25.9333 | 1544 |
| | 1785 | 445T | - | 165 | 132 | 95.8 | 0.89 | 441.53 | K | 3258 | 250 | 320 | 1.15 | 55.5355 | 1632 |
| | 1190 | 447T | - | 175 | 140 | 95.8 | 0.84 | 662.29 | K | 3072 | 200 | 250 | 1.15 | 102.6656 | 2042 |
| 200 | 3570 | 447TS | - | 218 | 171 | 95.4 | 0.9 | 294.35 | K | 3840 | 200 | 250 | 1.15 | 30.7095 | 1859 |
| | 1785 | 447T | - | 217 | 174 | 96.2 | 0.9 | 588.7 | H | 3411 | 250 | 250 | 1.15 | 71.6045 | 2055 |
| | 1190 | 449T | - | 233 | 186 | 95.8 | 0.84 | 883.05 | K | 4091 | 200 | 250 | 1.15 | 123.7071 | 2245 |
| 250 | 3570 | 449TS | - | 271 | 212 | 95.8 | 0.9 | 367.94 | K | 4781 | 200 | 250 | 1.15 | 36.8791 | 2024 |
| | 1785 | 449T | - | 270 | 216 | 96.2 | 0.9 | 735.88 | H | 4374 | 250 | 250 | 1.15 | 85.4436 | 2289 |
| | 1190 | 449T* | - | 291 | 233 | 95.8 | 0.84 | 1103.82 | J | 4654 | 200 | 250 | 1.15 | 150.937 | 2597 |
| 300 | 3570 | 449TS | - | 326 | 261 | 95.8 | 0.9 | 441.53 | H | 5212 | 200 | 250 | 1.15 | 63.641 | 2271 |
| | 1785 | 449T | - | 324 | 260 | 96.2 | 0.9 | 883.05 | H | 5191 | 250 | 250 | 1.15 | 97.532 | 2443 |
| | 1190 | 449T* | - | 349 | 279 | 95.8 | 0.84 | 1324.58 | J | 5585 | 200 | 250 | 1.15 | 171.998 | 3025 |
| 350 | 3570 | 449TS* | - | 384 | 307 | 95.8 | 0.89 | 515.11 | H | 6150 | 200 | 250 | 1.15 | 53.676 | 2602 |
| | 1785 | 449T* | - | 387 | 310 | 96.2 | 0.88 | 1030.23 | H | 6194 | 250 | 250 | 1.15 | 118.256 | 2849 |
| | 1190 | 449T* | - | 407 | 326 | 95.8 | 0.84 | 1545.34 | J | 6516 | 200 | 250 | 1.15 | 190.792 | 3237 |
| 400 | 3570 | 449TS* | - | 439 | 351 | 95.8 | 0.89 | 588.7 | H | 7028 | 200 | 250 | 1.15 | 63.597 | 2884 |
| | 1785 | 449T* | - | 442 | 354 | 96.2 | 0.88 | 1177.41 | H | 7078 | 250 | 250 | 1.15 | 130.047 | 3025 |
| | 1190 | 449T* | - | 465 | 372 | 95.8 | 0.84 | 1766.11 | J | 7446 | 200 | 250 | 1.15 | 219.023 | 3554 |
| 450 | 3570 | 449TS* | - | 494 | 395 | 95.8 | 0.89 | 662.29 | H | 7907 | 200 | 250 | 1.15 | 68.581 | 3025 |
| | 1785 | 449T* | - | 498 | 398 | 96.2 | 0.88 | 1324.58 | H | 7963 | 250 | 250 | 1.15 | 146.554 | 3272 |
| 500 | 3570 | 449TS* | - | 549 | 439 | 95.8 | 0.89 | 735.88 | H | 8785 | 200 | 250 | 1.15 | 78.5 | 3308 |
| | 1785 | 449T* | - | 553 | 442 | 96.2 | 0.88 | 1471.76 | H | 8848 | 250 | 250 | 1.15 | 163.051 | 3519 |

NEMA EPACT Efficiency TEFC Motors Design C

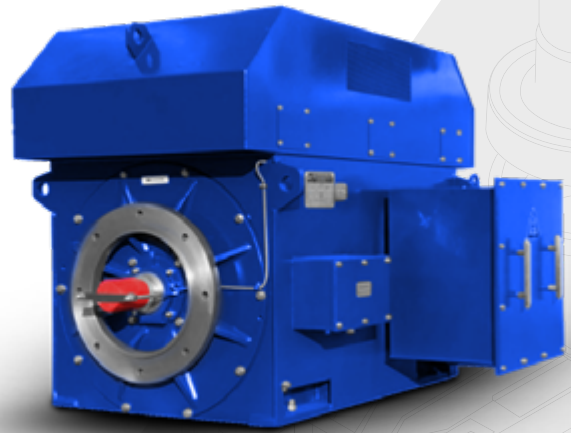
| HP | Full Load Speed (r/min) | NEMA Frame | Conn | Code | Current at 460 V | | Torque | | | Efficiency Full Load (%) |
|-----|-------------------------|------------|------|------|------------------|------------------|-----------------|------------------|----------------|--------------------------|
| | | | | | Full Load (A) | Locked Rotor (A) | Full Load LB-FT | Locked Rotor (%) | Break Down (%) | |
| 1 | 3450 | 143T | 2Y/Y | N | 1.4 | 15 | 1.5 | 245 | 225 | 74 |
| | 1720 | 143T | 2Y/Y | N | 1.7 | 15 | 3.1 | 285 | 200 | 73 |
| | 1150 | 145T | 2Y/Y | N | 2 | 15 | 4.6 | 255 | 225 | 72 |
| 1.5 | 3450 | 143T | 2Y/Y | M | 2.1 | 20 | 2.2 | 240 | 225 | 78 |
| | 1720 | 145T | 2Y/Y | M | 2.4 | 20 | 4.5 | 285 | 200 | 77 |
| | 1150 | 182T | 2Y/Y | M | 2.6 | 20 | 6.8 | 250 | 225 | 72 |
| 2 | 3450 | 145T | 2Y/Y | L | 2.8 | 25 | 3 | 240 | 225 | 79 |
| | 1720 | 145T | 2Y/Y | L | 3.1 | 25 | 6.1 | 285 | 200 | 78.5 |
| | 1150 | 184T | 2Y/Y | L | 3.3 | 25 | 9.2 | 250 | 225 | 78.5 |
| 3 | 3450 | 182T | 2Y/Y | K | 4 | 32 | 4.5 | 240 | 225 | 80 |
| | 1720 | 182T | 2Y/Y | K | 4.3 | 32 | 9 | 270 | 200 | 82.5 |
| | 1150 | 213T | 2Y/Y | K | 4.7 | 32 | 13.5 | 250 | 225 | 81.5 |
| 5 | 3450 | 184T | 2Y/Y | J | 6.4 | 46 | 7.5 | 240 | 200 | 82 |
| | 1720 | 184T | 2Y/Y | J | 6.9 | 46 | 15.2 | 255 | 200 | 82.5 |
| | 1150 | 215T | 2Y/Y | J | 8.3 | 46 | 22.6 | 250 | 200 | 82.5 |
| 7.5 | 3450 | 213T | 2Y/Y | H | 9.4 | 64 | 11.2 | 215 | 200 | 83 |
| | 1720 | 213T | 2Y/Y | H | 9.9 | 64 | 22.5 | 250 | 200 | 84 |
| | 1150 | 254T | 2Y/Y | H | 11.2 | 64 | 33.8 | 225 | 190 | 86.5 |
| 10 | 3450 | 215T | 2Y/Y | H | 12.2 | 81 | 15 | 215 | 190 | 84 |
| | 1720 | 215T | 2Y/Y | H | 13 | 81 | 30.5 | 250 | 200 | 84 |
| | 1150 | 256T | 2Y/Y | H | 15 | 81 | 45 | 225 | 190 | 86.5 |
| 15 | 3450 | 254T | 2Δ/Δ | G | 18.4 | 116 | 22.5 | 200 | 180 | 87 |
| | 1720 | 254T | 2Δ/Δ | G | 19.7 | 116 | 45.4 | 225 | 200 | 87.5 |
| | 1150 | 284T | 2Δ/Δ | G | 20.3 | 116 | 66.8 | 210 | 190 | 88.5 |
| 20 | 3450 | 256T | 2Δ/Δ | G | 23.1 | 145 | 29.8 | 180 | 180 | 86.5 |
| | 1720 | 256T | 2Δ/Δ | G | 24.7 | 145 | 60 | 200 | 200 | 87.5 |
| | 1150 | 286T | 2Δ/Δ | G | 25.8 | 145 | 89.4 | 200 | 190 | 88.5 |
| 25 | 3450 | 284TS | 2Δ/Δ | G | 28.9 | 183 | 37.2 | 200 | 190 | 89.5 |
| | 1720 | 284T | 2Δ/Δ | G | 29.6 | 183 | 74.2 | 200 | 190 | 89.5 |
| | 1150 | 324T | 2Δ/Δ | G | 31.9 | 183 | 111.3 | 200 | 190 | 89.5 |
| 30 | 3450 | 286TS | 2Δ/Δ | G | 34.5 | 218 | 44.4 | 200 | 190 | 91 |
| | 1720 | 286T | 2Δ/Δ | G | 35.5 | 218 | 89.1 | 200 | 190 | 91 |
| | 1150 | 326T | 2Δ/Δ | G | 38 | 218 | 133.6 | 200 | 190 | 91 |
| 40 | 3450 | 324TS | 2Δ/Δ | G | 46.5 | 290 | 59.1 | 200 | 190 | 90.2 |
| | 1720 | 324T | 2Δ/Δ | G | 47.1 | 290 | 118.7 | 200 | 190 | 91 |
| | 1150 | 364T | 2Δ/Δ | G | 48.4 | 290 | 178.1 | 200 | 190 | 91 |
| 50 | 3450 | 326TS | 2Δ/Δ | G | 58.4 | 363 | 73.8 | 200 | 190 | 91 |
| | 1720 | 326T | 2Δ/Δ | G | 59.2 | 363 | 148.4 | 200 | 190 | 91.7 |
| | 1150 | 365T | 2Δ/Δ | G | 60.5 | 363 | 222.6 | 200 | 190 | 91 |
| 60 | 3450 | 364TS | 2Δ/Δ | G | 64.5 | 435 | 88.6 | 200 | 190 | 91.7 |
| | 1720 | 364T | 2Δ/Δ | G | 69.4 | 435 | 177.6 | 200 | 190 | 91.7 |
| | 1150 | 404T | 2Δ/Δ | G | 70.2 | 435 | 266 | 200 | 190 | 91.7 |
| 75 | 3450 | 365TS | 2Δ/Δ | G | 84.3 | 543 | 110 | 200 | 190 | 91.7 |
| | 1720 | 365T | 2Δ/Δ | G | 86.2 | 543 | 222 | 200 | 190 | 92.4 |
| | 1150 | 405T | 2Δ/Δ | G | 87.7 | 543 | 333 | 200 | 190 | 91.7 |
| 100 | 3450 | 405TS | 2Δ/Δ | G | 100.2 | 725 | 147.2 | 200 | 190 | 91.8 |
| | 1720 | 405T | 2Δ/Δ | G | 114 | 725 | 295.2 | 200 | 190 | 92.4 |
| | 1150 | 444T | 2Δ/Δ | G | 116 | 725 | 445.2 | 200 | 190 | 91.7 |
| 125 | 3450 | 444TS | 2Δ/Δ | G | 137 | 908 | 183.7 | 200 | 190 | 92.4 |
| | 1720 | 444T | 2Δ/Δ | G | 141 | 908 | 368.3 | 200 | 190 | 92.4 |
| | 1150 | 445T | 2Δ/Δ | G | 145 | 908 | 556.5 | 200 | 190 | 92.4 |
| 150 | 3450 | 445TS | 2Δ/Δ | G | 164 | 1085 | 220.4 | 200 | 190 | 93 |
| | 1720 | 445T | 2Δ/Δ | G | 169 | 1085 | 442 | 200 | 190 | 93 |
| | 1150 | 447T | 2Δ/Δ | G | 170 | 1085 | 668 | 200 | 190 | 92.4 |
| 200 | 3450 | 447TS | Δ | G | 215 | 1450 | 294 | 200 | 190 | 93.6 |
| | 1720 | 447T | Δ | G | 223 | 1450 | 589.3 | 200 | 190 | 93 |

HIGH VOLTAGE MOTORS

THREE-PHASE ASYNCHRONOUS MOTORS CAST IRON HOUSING

Industries that require the movement of heavy loads or complex applications often use high voltage motors. These motors are a part of our extensive range of reliable and efficient industrial motors, suitable for use in cement plants, pump systems, mines, chemical, oil and gas industries, plant manufacturers and other users worldwide.

Elektrim Motors produces medium to high voltage asynchronous motors with nominal voltages ranging from 3,000V to 10,000V. We offer various electrical and mechanical designs, as well as different types of protection and cooling options. Our motors are designed for both mains and inverter operation and comply with the current standards EN60034, IEC60034, and ISO.



MODEL DATA

PRODUCT SPECIFICATIONS / DETAILS

FRAME SIZE: EM355 – EM710

EFFICIENCY: IE1-IE3

FREQUENCY: 5Hz - 100Hz

INSULATION: CLASS F / CLASS H

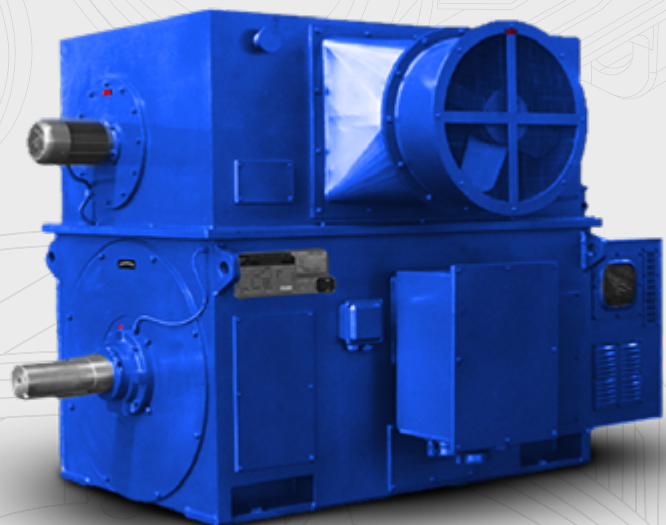
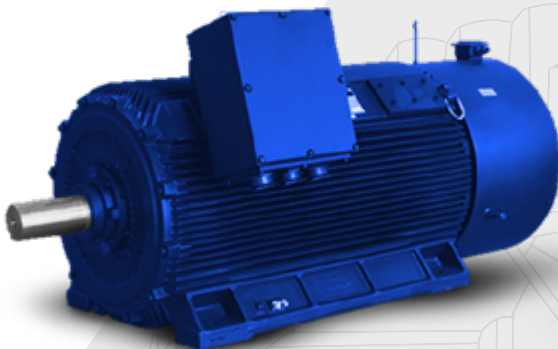
COOLING METHOD: AIR COOL(IC611, IC616, IC666) AND WATER COOLED (IC81W)

POLE: 2P, 4P, 6P, 8P, 10P, 12P, 14P 16P

VOLTAGE: 3,000V - 10,000V

PROTECTION: IP55, IP65, IP56

RUNNING DUTY: S1 CONTINUOUS RUNNING

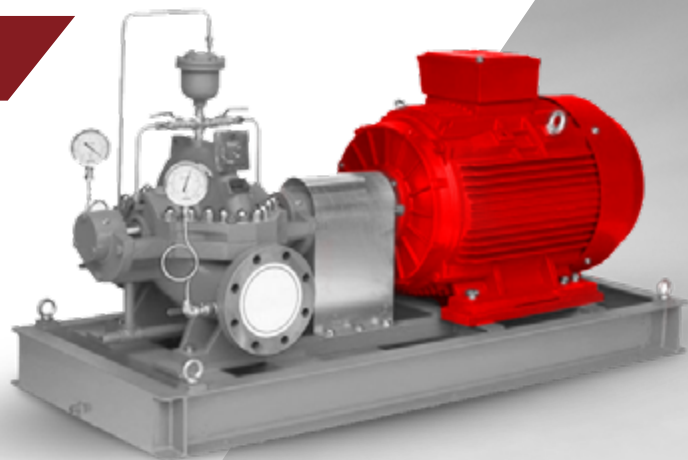


FIRE PUMP MOTORS

THREE-PHASE ASYNCHRONOUS MOTORS
CAST IRON HOUSING

UL certified Fire Pump motors are specifically designed to be used on fire pumps that adhere to NFPA-20 standards. These motors have a Service factor of either 1 or 1.15, and are available in IE1 to IE3 ratings.

They are ideal for any purpose-driven pump utilized within a fire protection system.



CERTIFICATION

UL LISTED CERTIFICATE

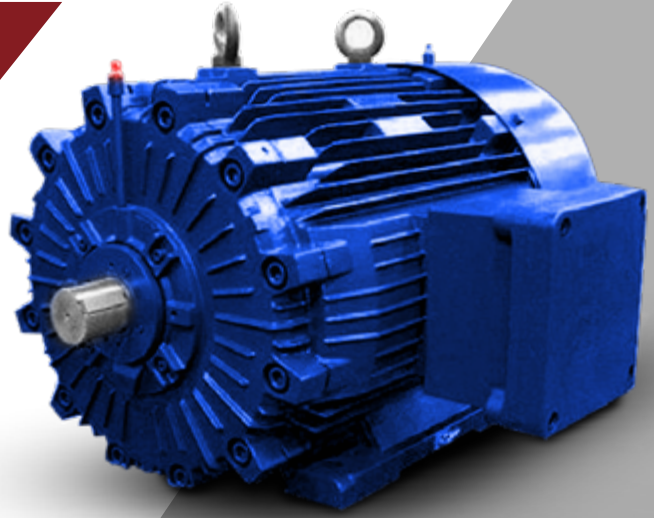


EXPLOSION PROOF MOTORS

THREE-PHASE ASYNCHRONOUS MOTORS
CAST IRON HOUSING

The Explosion-proof Motor Series is manufactured according to international IEC standards and conforms to the international ATEX certificate for all frame sizes and many different ex-proof requirements.

This series of motors is designed to conform to the standards of Exd IIA T4, Exd IIB T4, Exd IIC T4 and Exn non-sparking motor.



CERTIFICATION

ATEX CERTIFICATE

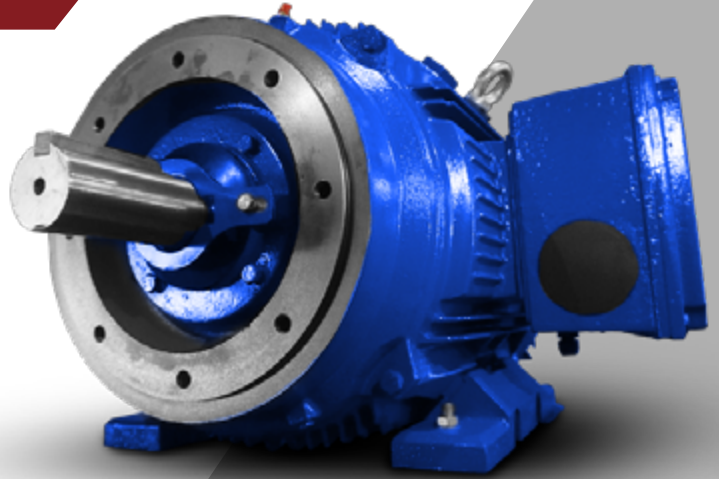


DNV-GL MARINE MOTORS

THREE-PHASE ASYNCHRONOUS MOTORS CAST IRON HOUSING

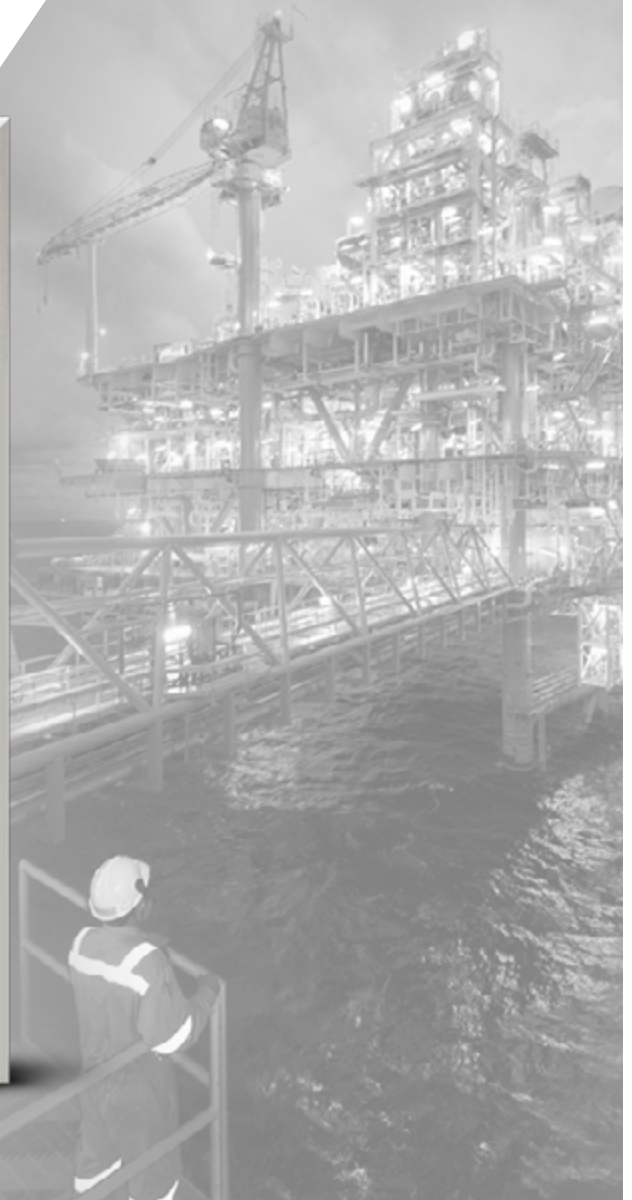
The Elektrim Techtot Motors designed for marine use conform to the International IEC standards and can be supplied with a GL Type Approval Certificate for all frame sizes.

They are also suitable for third-party certification testing by major marine certification societies. These motors are widely used in different industrial and marine sectors globally and are a dependable prime mover for all kinds of marine applications.



CERTIFICATION

DNV-GL MARINE CERTIFICATE



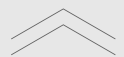
Elektrim **TECHTOP**

PRODUCT CATALOGUE

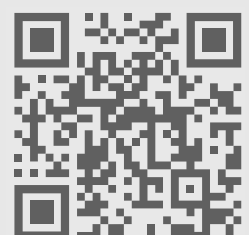




**PROJECT
REFERENCE**



**SCAN
HERE FOR
DIGITAL
CONTENT**



WEBSITE

Elektrim TECHTOP



SCAN
HERE FOR
FOR DIGITAL COPY