
# BCI nv

## elektromotoren

**BCI Elektromotoren**
**is een bedrijf met rijke voorgeschiedenis op gebied van ontwikkeling, werkzaamheden en verkoop van aandrijvingen met ondermeer elektromotoren 'in eigen beheer gebouwd', tandwielkasten, elektronische apparatuur.**

Onze hoogwaardige en zeer bedrijfszekere motoren zijn daarenboven allen uitgerust met SKF of FAG lagers en hebben standaard klasse IP55 of 56, speciaal IP65 of 67 op verzoek. Met een standaard isolatieklasse F=155°C kunnen zij toegepast worden in 95% van de gevallen, isolatieklasse H=180°C wordt speciaal gemaakt op verzoek.

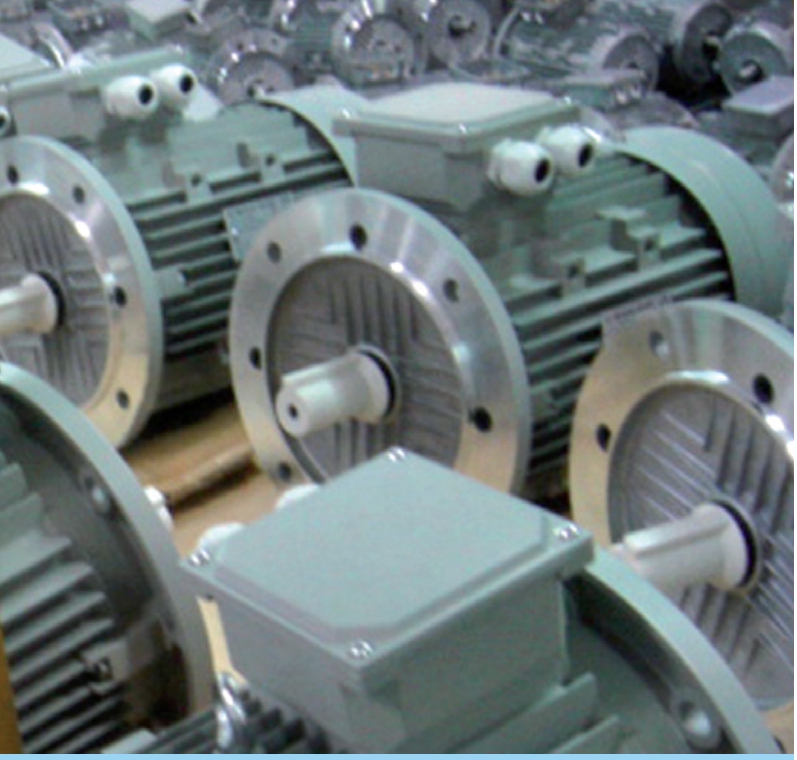
Op verzoek van de klanten bouwen wij daarnaast speciale motoren waar standaard motoren niet meer voldoende zijn. Talloze realisaties succesvol in dienst. Steeds volgen wij de nieuwste ontwikkelingen op de voet. Door ons lidmaatschap bij de Europese organisatie van IEC normen kunnen wij dan ook uit eerste en correcte bron deze ontwikkelingen mededelen en uitvoeren bij onze klanten. Om daarenboven de vraag naar motoren, reduktoren en elektronische snelheidsregelingen geen vertraging te laten lopen, hebben wij een ruime stock opgebouwd. Deze bied ons dan ook in 99% van de gevallen onmiddellijk de gevraagde aandrijving te kunnen leveren + eventuele montage. Om deze normen te homologeren hebben wij alle attesten die gekeurd zijn door onafhankelijke keuringsorganismen wereldwijd, wat de betrouwbaarheid zonder meer bevestigt.

De tabellen die hierna volgen zijn dan ook voor 100% betrouwbaar en correct.
In deze brochure beschrijven wij uitvoerig de mogelijkheden die wij op gebied van aandrijvingen met deskundig advies en kwaliteit kunnen leveren.
Naast onze eigen diensten en producten werken wij nauw samen en zonder tussenpersonen met fabrikanten waarvan wij de distributeur zijn voor België en op die manier deze producten kunnen aanbieden aan fabrieksprijzen.

BCI engageert zich ertoe om 24H service aan te bieden voor standaard producten uit onze catalogus, voor motoren en reduktoren wat betreft ratio's en vermogen in serie M,C en K, alle depannages met mogelijkheid tot vervanging van onze producten binnen de 4uur te realiseren.

Onze stock is altijd voldoende groot om alle bestellingen zonder probleem af te werken binnen de 24uur. Motoren buiten standaard worden op verzoek deskundig vervaardigd.

CE CCS TÜV BUREAU VERITAS



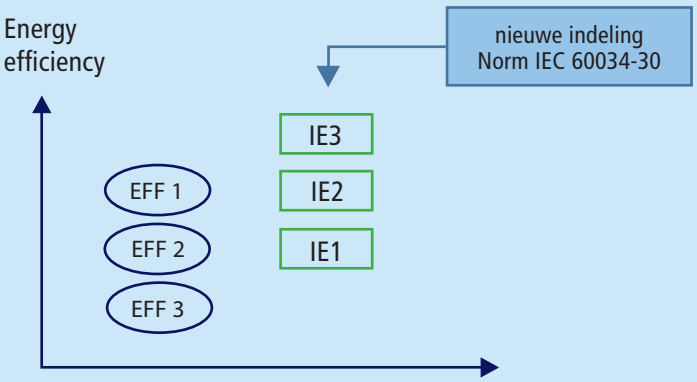
BCI nv
elektromotoren

# INHOUD



RADICON FORMERLY A DAVID BROWN BUSINESS BENZLERS HITACHI Inspire the Next OMRON MITSUBISHI ELECTRIC FACTORY AUTOMATION

# De nieuwe Europese norm




**Hiermee willen wij u informeren betreffende de nieuwe ontwikkelingen in de wereld van elektromotoren. De EU heeft met name een nieuwe internationale norm aangenomen betreffende de energiebesparende elektromotoren voor 2-, 4- en 6-polige motoren met spanning tot max. 1000 V en vermogens van 0,75 tot 375 kW.**

In het verleden waren motoren niet aan deze norm onderworpen, nu echter door het aannemen van één enkele norm betreffende energie-efficiëntie is er een gemeenschappelijke basis gecreëerd voor eenvormige motorspecificaties, efficiëntieniveaus en metingen, dit zal aanleiding geven tot zeer grote energiebesparingen die in de nieuwe Europese norm "Richtlijn 2005/32/EG" wordt omgezet.

De vroegere internationale norm IEC60034 werd als volgt ingedeeld:

- EFF3: Standaardrendement
- EFF2: Verbeterd rendement
- EFF1: Hoog rendement

De vernieuwde norm IEC60034-30 voor 1-snelheidsmotoren zorgt voor een wereldwijde normalisatie die laagspanningsinductiemotoren in de volgende nieuwe rendementsklassen indeelt:

- IE1: Standaardrendement
- IE2: Hoog rendement
- IE3: Hoogste rendement

en vervangt de vroegere EFF klassen.

De richtlijn stelt eisen voor het op de markt brengen en het in dienst stellen van motoren. Dit betekent dat nieuwe motoren aan deze efficiëntienorm moeten voldoen, bestaande motoren moeten niet worden vernieuwd.

De richtlijn is niet van toepassing op:

- Motoren om volledig ondergedompeld in een vloeistof te werken
- Geïntegreerde motoren in een product (bijvoorbeeld reduktoren, pompen, ventilatoren of compressoren) waarvan de energieprestaties niet kunnen worden getest onafhankelijk van het product
- Remmotoren
- Motoren specifiek ontworpen voor gebruik:
  - op hoogtes hoger dan 1000 meter boven zeeniveau
  - bij omgevingsluchttemperaturen hoger dan 40 °C
  - bij maximale bedrijfstemperaturen boven 400°C
  - bij omgevingsluchttemperaturen lager dan -15 °C voor motoren of lager dan 0 °C voor motoren met luchtkoeling
  - bij een ingangstemperatuur lager dan 5 °C of hoger dan 25 °C voor de waterkoeling
  - in omstandigheden met explosierisico's, zoals vastgelegd in Richtlijn 94/9/EG

# JL - JM series IE1 , IE2 en IE3

## JL serie IE1

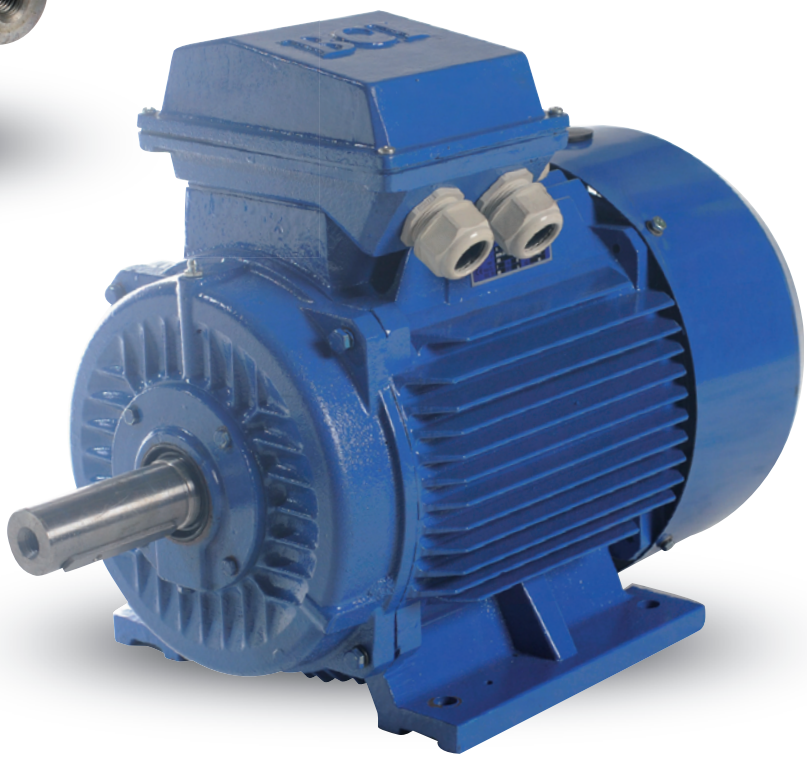
DRIEFASIGE ALUMINIUM ASYNCHRONE MOTOREN
BOUWGROOTTE 56 T.E.M. 160

## JL-1 serie IE2

DRIEFASIGE ALUMINIUM ASYNCHRONE MOTOREN
BOUWGROOTTE 80 T.E.M. 160

## JL-3 serie IE3

PREMIUM EFFICIENCY



## JM serie IE1

DRIEFASIGE GIETIJZEREN ASYNCHRONE MOTOREN
BOUWGROOTTE 56 T.E.M. 355

## JM-1 serie IE2

DRIEFASIGE GIETIJZEREN ASYNCHRONE MOTOREN
BOUWGROOTTE 63 T.E.M. 355
HIGH EFFICIENCY

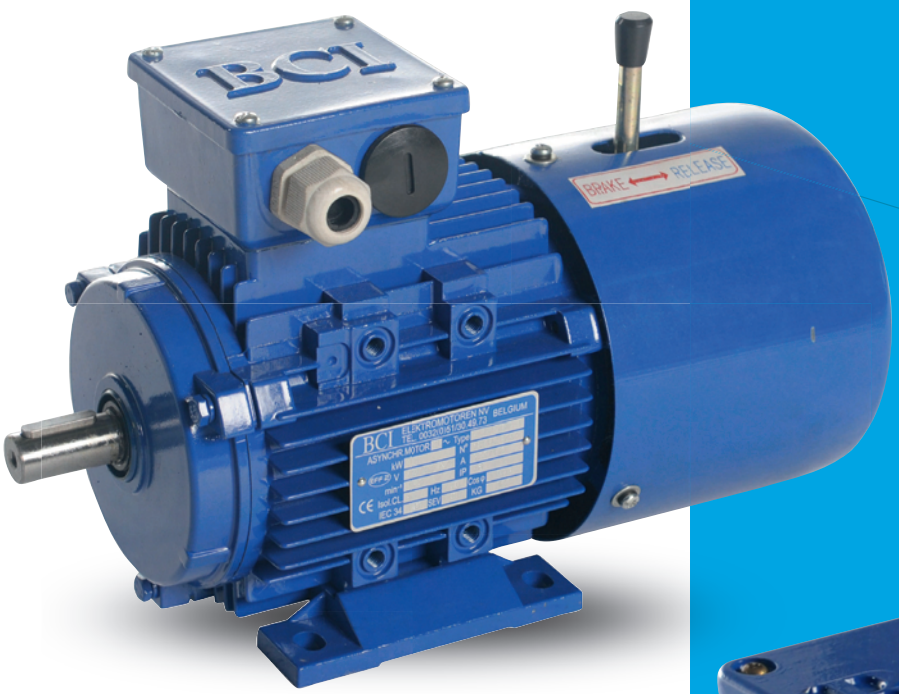
## JM-3 serie IE3

PREMIUM EFFICIENCY

IE1 STANDAARD EFFICIENCY, IE2 HIGH EFFICIENCY, IE3 PREMIUM EFFICIENCY
IE2 & IE3 ZIJN DE IDEALE HI-EFFICIENCY ENERGIE BESPARENDE MOTOREN, EEN POTENTIEEL ENERGIEBESPARING VAN 30%-60% VOOR EEN GEOPTIMALISEERD SYSTEEM

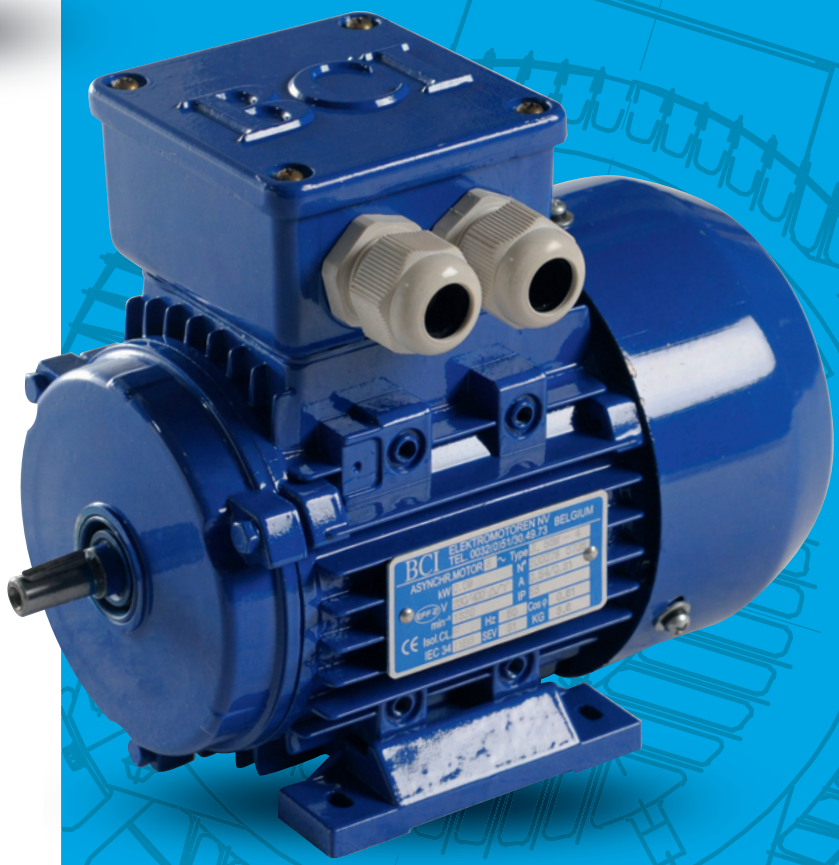
# JLEJ series

DRIEFASIGE ALUMINIUM ASYNCHRONE REMMOTOREN




# JLD series

DRIEFASIGE ALUMINIUM ASYNCHRONE
2-SNELHEDEN MOTOREN




SERIE JLEJ VEERDRUK REMMOTOR VAN HOGE KWALITEIT, GELIJKRICHTER VOLGENS AANVRAAG, STANDAARD 230V OF 400V OF MET ELEKTRONISCH VERSNELDE INSCHAKELTIJD, MET HANDBEDIENING ALS STANDAARD UITVOERING, AFGEWERKT STANDAARD MET HOGE KWALITEITSVERF 1 COMPONENT OF VOLGENS AANVRAAG MET EPOXYVERF VOOR EXTREME TOEPASSINGEN.


# JM-H
# Marine uitvoering

**JM-H series marine-use three-phase asynchronous motor, New generation of marine product with our own design, taken advantage of JM/TS273-2002 standard and GB 735-2000 rule based on IEC standard, approved and in accord with international Classification Society's requirement such as ABS, LR,BV, DNV, GI, RINA.**

JM-H series marine-use three-phase asynchronous motor, with advantages of high efficiency, energy savin, large starting torque, good structure low noise, elegant appearance, convenient operation and so on ,reached International IE1 and IE2 standard by adopting IP55, insulation class F. JM-H series motor adopted double earth mark (in terminal box and feet of motor body), the cable glands is specially designed with high-intension chrome plated connector to ensure electric security of motors. JM-H series motor with terminal box top, also could with box side if mentioned on Customer's order, the terminal box could turn by 90° in four direction to satisfy different operation of Customers.

The surface of winding and Metal accessories of JM-H series with special paint and process according the rule of tepid motor. The motor has the good performance of protecting from humidity, fog, and salt spray.

JM-H series motor is widely applied to ship as driving pump, cooling machine, separator, hydraulic pressure machine and other assistant equipment.


SWL 681

# JL 56 –160 IE1

## 2 pole · 3000T/M · 50 Hz

| Type | Output | Speed | In (Amps) | | | Efficiency η% | Power Factor cos. φ% | Moment (J) | Tn | Is | Ts | Tmax | Noise Level | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 380V | 400V | 415V | 100% FL | 100% FL | kgm² | Nm | In | Tn | Tn | dB(A) | kg |
| JL561-2 | 0.09 | 2750 | 0.32 | 0.3 | 0.29 | 62.0 | 0.70 | 0.00018 | 0.31 | 5.2 | 2.1 | 2.2 | 57 | 3.6 |
| JL562-2 | 0.12 | 2750 | 0.38 | 0.36 | 0.34 | 67.0 | 0.72 | 0.00023 | 0.41 | 5.2 | 2.1 | 2.2 | 57 | 3.9 |
| JL631-2 | 0.18 | 2720 | 0.53 | 0.5 | 0.48 | 65.0 | 0.80 | 0.00031 | 0.61 | 5.5 | 2.2 | 2.3 | 58 | 4.8 |
| JL632-2 | 0.25 | 2720 | 0.69 | 0.66 | 0.63 | 68.0 | 0.81 | 0.0006 | 0.96 | 5.5 | 2.2 | 2.3 | 58 | 5.1 |
| JL711-2 | 0.37 | 2740 | 0.99 | 0.94 | 0.91 | 70.0 | 0.81 | 0.00075 | 1.26 | 6.1 | 2.2 | 2.3 | 61 | 6 |
| JL712-2 | 0.55 | 2740 | 1.4 | 1.33 | 1.28 | 73.0 | 0.82 | 0.0009 | 1.88 | 6.1 | 2.2 | 2.3 | 61 | 6.5 |
| JL801-2 | 0.75 | 2840 | 1.83 | 1.73 | 1.68 | 75.1 | 0.83 | 0.0012 | 2.54 | 6.1 | 2.2 | 2.3 | 64 | 8.7 |
| JL802-2 | 1.1 | 2840 | 2.58 | 2.45 | 2.37 | 77.0 | 0.84 | 0.0014 | 3.72 | 7.0 | 2.2 | 2.3 | 64 | 9.5 |
| JL90S-2 | 1.5 | 2840 | 3.43 | 3.26 | 3.14 | 79.0 | 0.84 | 0.0029 | 5.14 | 7.0 | 2.2 | 2.3 | 69 | 11.8 |
| JL90L-2 | 2.2 | 2840 | 4.85 | 4.61 | 4.44 | 81.1 | 0.85 | 0.0055 | 7.40 | 7.0 | 2.2 | 2.3 | 69 | 13.5 |
| JL100L-2 | 3 | 2860 | 6.33 | 6.01 | 5.79 | 82.8 | 0.87 | 0.0109 | 9.95 | 7.5 | 2.2 | 2.3 | 73 | 21 |
| JL112M-2 | 4 | 2880 | 8.18 | 7.77 | 7.49 | 84.4 | 0.88 | 0.0126 | 13.22 | 7.5 | 2.2 | 2.3 | 74 | 28 |
| JL132S1-2 | 5.5 | 2900 | 11.1 | 10.5 | 10.1 | 85.9 | 0.88 | 0.0377 | 18.11 | 7.5 | 2.2 | 2.3 | 77 | 39 |
| JL132S2-2 | 7.5 | 2900 | 14.9 | 14.1 | 13.6 | 87.2 | 0.88 | 0.0499 | 24.70 | 7.5 | 2.2 | 2.3 | 77 | 44.5 |
| JL160M1-2 | 11 | 2930 | 21.2 | 20.2 | 19.4 | 88.5 | 0.89 | 0.055 | 35.85 | 7.5 | 2.2 | 2.3 | 83 | 69.5 |
| JL160M2-2 | 15 | 2930 | 28.6 | 27.2 | 26.2 | 89.5 | 0.89 | 0.075 | 48.89 | 7.5 | 2.2 | 2.3 | 83 | 78.0 |
| JL160L-2 | 18.5 | 2930 | 34.6 | 32.9 | 31.7 | 90.2 | 0.90 | 0.124 | 60.30 | 7.5 | 2.2 | 2.3 | 83 | 88.5 |

## 4 pole · 1500T/M · 50 Hz

| Type | Output | Speed | In (Amps) | | | Efficiency η% | Power Factor cos. φ% | Moment (J) | Tn | Is | Ts | Tmax | Noise Level | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 380V | 400V | 415V | 100% FL | 100% FL | kgm² | Nm | In | Tn | Tn | dB(A) | kg |
| JL561-4 | 0.06 | 1325 | 0.28 | 0.27 | 0.26 | 56.0 | 0.58 | 0.0003 | 0.43 | 4.0 | 2.0 | 2.1 | 48 | 3.6 |
| JL562-4 | 0.09 | 1325 | 0.39 | 0.37 | 0.35 | 58.0 | 0.61 | 0.0004 | 0.64 | 4.0 | 2.0 | 2.1 | 48 | 3.6 |
| JL631-4 | 0.12 | 1310 | 0.44 | 0.42 | 0.41 | 57.0 | 0.72 | 0.0005 | 0.84 | 4.4 | 2.1 | 2.2 | 48 | 4.5 |
| JL632-4 | 0.18 | 1310 | 0.62 | 0.59 | 0.57 | 60.0 | 0.73 | 0.0006 | 1.26 | 4.4 | 2.1 | 2.2 | 48 | 4.7 |
| JL711-4 | 0.25 | 1330 | 0.79 | 0.75 | 0.72 | 65.0 | 0.74 | 0.0008 | 1.73 | 5.2 | 2.1 | 2.2 | 53 | 6 |
| JL712-4 | 0.37 | 1330 | 1.12 | 1.06 | 1.02 | 67.0 | 0.75 | 0.0013 | 2.56 | 5.2 | 2.1 | 2.2 | 53 | 6.3 |
| JL801-4 | 0.55 | 1390 | 1.57 | 1.49 | 1.43 | 71.1 | 0.75 | 0.0018 | 3.75 | 5.2 | 2.3 | 2.3 | 58 | 10 |
| JL802-4 | 0.75 | 1390 | 2.05 | 1.95 | 1.88 | 73.1 | 0.76 | 0.0021 | 5.11 | 6.0 | 2.3 | 2.3 | 58 | 11 |
| JL90S-4 | 1.1 | 1390 | 2.84 | 2.7 | 2.6 | 76.3 | 0.77 | 0.0023 | 7.50 | 6.0 | 2.3 | 2.3 | 59 | 13 |
| JL90L-4 | 1.5 | 1390 | 3.67 | 3.49 | 3.36 | 78.6 | 0.79 | 0.0027 | 10.23 | 6.0 | 2.3 | 2.3 | 59 | 14 |
| JL100L1-4 | 2.2 | 1410 | 5.08 | 4.83 | 4.65 | 81.2 | 0.81 | 0.0054 | 14.80 | 7.0 | 2.3 | 2.3 | 61 | 23 |
| JL100L2-4 | 3 | 1410 | 6.72 | 6.39 | 6.15 | 82.7 | 0.82 | 0.0067 | 20.18 | 7.0 | 2.3 | 2.3 | 61 | 25 |
| JL112M-4 | 4 | 1435 | 8.79 | 8.35 | 8.05 | 84.3 | 0.82 | 0.0095 | 26.53 | 7.0 | 2.3 | 2.3 | 62 | 28 |
| JL132S-4 | 5.5 | 1440 | 11.7 | 11.1 | 10.7 | 85.8 | 0.83 | 0.0214 | 36.48 | 7.0 | 2.3 | 2.3 | 69 | 45 |
| JL132M-4 | 7.5 | 1440 | 15.6 | 14.8 | 14.3 | 87.1 | 0.84 | 0.0296 | 49.74 | 7.0 | 2.3 | 2.3 | 69 | 55 |
| JL160M-4 | 11 | 1460 | 22.5 | 21.4 | 20.6 | 88.5 | 0.84 | 0.0747 | 71.59 | 7.0 | 2.3 | 2.3 | 72 | 78 |
| JL160L-4 | 15 | 1460 | 30 | 28.5 | 27.4 | 89.5 | 0.85 | 0.0918 | 98.12 | 7.0 | 2.3 | 2.3 | 72 | 90 |

**In** = Full Load Current · **Is** = Locked Rotor Current · **Ts** = Locked Rotor Torque · **T-max** = Maximum Torque · **Tn** = Full Load Torque

# JL 56 –160 IE1

## 6 pole · 1000T/M · 50 Hz

| Type | Output | Speed | In (Amps) | | | Efficiency η% | Power Factor cos. φ% | Moment (J) | Tn | Is | Ts | Tmax | Noise Level | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 380V | 400V | 415V | 100% FL | 100% FL | kgm² | Nm | In | Tn | Tn | dB(A) | kg |
| JL631-6 | 0.09 | 840 | 0.52 | 0.49 | 0.47 | 44.0 | 0.60 | 0.00025 | 1.80 | 3.5 | 1.8 | 1.9 | 48 | 4.8 |
| JL632-6 | 0.12 | 850 | 0.63 | 0.60 | 0.58 | 48.0 | 0.60 | 0.0004 | 2.25 | 3.5 | 1.8 | 1.9 | 48 | 5.1 |
| JL711-6 | 0.18 | 850 | 0.74 | 0.7.0 | 0.68 | 56.0 | 0.66 | 0.0011 | 1.91 | 4.0 | 1.9 | 2.0 | 49 | 6.0 |
| JL712-6 | 0.25 | 850 | 0.95 | 0.90 | 0.87 | 59.0 | 0.68 | 0.0014 | 2.65 | 4.0 | 1.9 | 2.0 | 49 | 6.3 |
| JL801-6 | 0.37 | 885 | 1.30 | 1.23 | 1.19 | 62.0 | 0.70 | 0.0016 | 3.93 | 4.7 | 1.9 | 2.0 | 51 | 8.9 |
| JL802-6 | 0.55 | 885 | 1.78 | 1.69 | 1.63 | 65.0 | 0.72 | 0.0019 | 5.84 | 4.7 | 1.9 | 2.1 | 51 | 10.4 |
| JL90S-6 | 0.75 | 910 | 2.29 | 2.18 | 2.10 | 69.0 | 0.73 | 0.0029 | 7.87 | 5.5 | 2.0 | 2.1 | 54 | 12.1 |
| JL90L-6 | 1.1 | 910 | 3.18 | 3.02 | 2.91 | 72.1 | 0.75 | 0.0035 | 11.54 | 5.5 | 2.0 | 2.1 | 54 | 13.7 |
| JL100L-6 | 1.5 | 920 | 3.99 | 3.79 | 3.66 | 76.1 | 0.76 | 0.0069 | 15.24 | 5.5 | 2.0 | 2.1 | 58 | 23 |
| JL112M-6 | 2.2 | 935 | 5.55 | 5.28 | 5.08 | 79.2 | 0.76 | 0.0140 | 22.35 | 6.5 | 2.1 | 2.1 | 62 | 28.2 |
| JL132S-6 | 3 | 960 | 7.4 | 7.03 | 6.77 | 81.1 | 0.76 | 0.0286 | 29.84 | 6.5 | 2.1 | 2.1 | 66 | 40.3 |
| JL132M1-6 | 4 | 960 | 9.74 | 9.25 | 8.92 | 82.1 | 0.77 | 0.0357 | 39.79 | 6.5 | 2.1 | 2.1 | 66 | 43 |
| JL132M2-6 | 5.5 | 960 | 12.9 | 12.3 | 11.8 | 84.1 | 0.77 | 0.0449 | 54.71 | 6.5 | 2.1 | 1.1 | 66 | 47.2 |
| JL160M-6 | 7.5 | 970 | 17.2 | 16.3 | 15.7 | 86.1 | 0.77 | 0.0810 | 73.84 | 6.5 | 2.1 | 2.1 | 70 | 70.6 |
| JL160L-6 | 11 | 970 | 24.5 | 23.2 | 22.4 | 87.6 | 0.78 | 0.1160 | 108.30 | 6.5 | 2.1 | 2.1 | 70 | 85 |

## 8 pole · 750T/M · 50 Hz

| Type | Output | Speed | In (Amps) | | | Efficiency η% | Power Factor cos. φ% | Moment (J) | Tn | Is | Ts | Tmax | Noise Level | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 380V | 400V | 415V | 100% FL | 100% FL | kgm² | Nm | In | Tn | Tn | dB(A) | kg |
| JL711-8 | 0.09 | 600 | 0.60 | 0.57 | 0.55 | 40.0 | 0.57 | 0.0080 | 1.95 | 2.8 | 1.8 | 1.9 | 48 | 6 |
| JL712-8 | 0.12 | 600 | 0.71 | 0.70 | 0.65 | 45.0 | 0.57 | 0.0010 | 2.16 | 2.8 | 1.8 | 1.9 | 48 | 6.3 |
| JL801-8 | 0.18 | 645 | 0.88 | 0.84 | 0.80 | 51.0 | 0.61 | 0.0025 | 2.5 | 3.3 | 1.8 | 1.9 | 48 | 8.9 |
| JL802-8 | 0.25 | 645 | 1.15 | 1.10 | 1.06 | 54.0 | 0.61 | 0.0030 | 3.5 | 3.3 | 1.8 | 1.9 | 48 | 10.4 |
| JL90S-8 | 0.37 | 670 | 1.49 | 1.41 | 1.36 | 62.0 | 0.61 | 0.0051 | 5.1 | 4.0 | 1.8 | 1.9 | 53 | 12.1 |
| JL90L-8 | 0.55 | 670 | 2.17 | 2.07 | 1.99 | 63.0 | 0.61 | 0.0065 | 7.6 | 4.0 | 1.8 | 2.0 | 53 | 13.7 |
| JL100L1-8 | 0.75 | 680 | 2.40 | 2.28 | 2.19 | 71.0 | 0.67 | 0.0095 | 10.2 | 4.0 | 1.8 | 2.0 | 56 | 23 |
| JL100L2-8 | 1.1 | 680 | 3.32 | 3.15 | 3.04 | 73.0 | 0.69 | 0.0110 | 15.0 | 5.0 | 1.8 | 2.0 | 56 | 25.1 |
| JL112M-8 | 1.5 | 690 | 4.40 | 4.18 | 4.03 | 75.0 | 0.69 | 0.0245 | 20.5 | 5.0 | 1.8 | 2.0 | 59 | 28.2 |
| JL132S-8 | 2.2 | 705 | 6.04 | 5.73 | 5.53 | 78.0 | 0.71 | 0.0314 | 29.6 | 6.0 | 1.8 | 2.0 | 61 | 40.3 |
| JL132M-8 | 3 | 705 | 7.90 | 7.51 | 7.24 | 79.0 | 0.73 | 0.0395 | 40.4 | 6.0 | 1.8 | 2.0 | 61 | 45 |
| JL160M1-8 | 4 | 720 | 10.30 | 9.76 | 9.41 | 81.0 | 0.73 | 0.0753 | 53.1 | 6.0 | 1.9 | 2.0 | 65 | 68.5 |
| JL160M2-8 | 5.5 | 720 | 13.60 | 12.9 | 12.50 | 83.0 | 0.74 | 0.0931 | 72.6 | 6.0 | 2.0 | 2.0 | 65 | 76.0 |
| JL160L-8 | 7.5 | 720 | 17.80 | 16.9 | 16.30 | 85.5 | 0.75 | 0.1260 | 99.5 | 6.0 | 2.0 | 2.0 | 65 | 86.2 |

# JL 56 -160

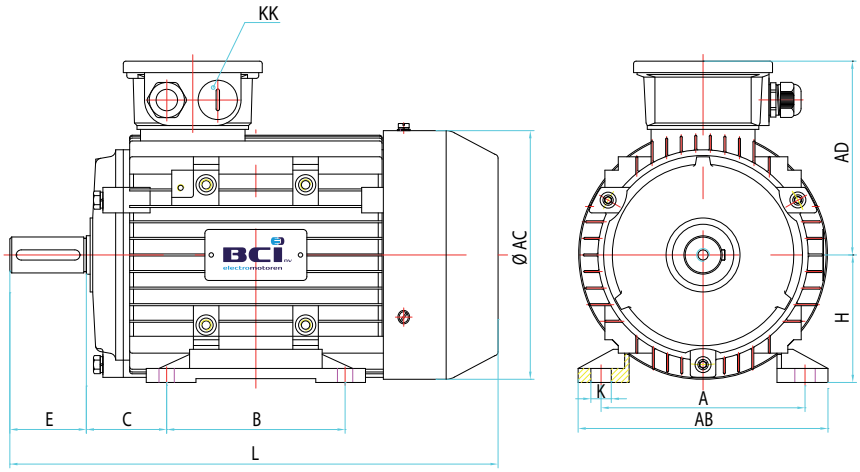
JL56

JL63

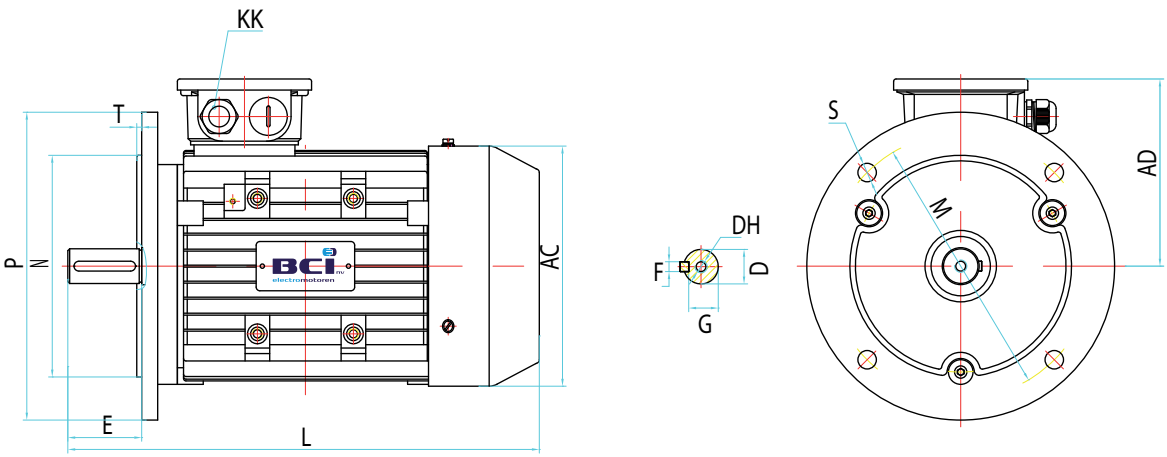
JL71

JL80

## B3



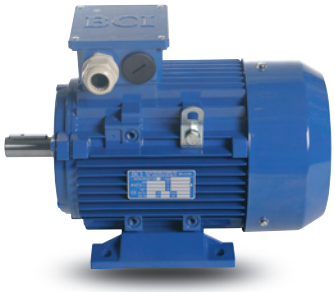

## B5



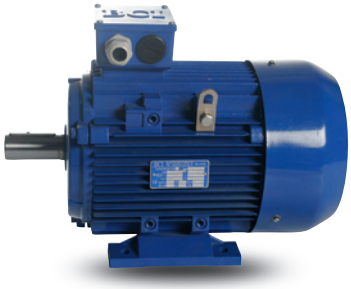

| | B3 | | | | | | | | | | | | | | | B5 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FRAME | A | AB | AC | AD | B | C | D | DH | E | F | G | H | K | KK Metric | L | M | N | P | S | T |
| JL56 | 90 | 115 | 110 | 100 | 71 | 36 | 9 | M4X12 | 20 | 3 | 7.2 | 56 | 5.8 | 2-M20X1.5 | 170 | 100 | 80 | 120 | 7 | 3 |
| JL63 | 100 | 135 | 130 | 115 | 80 | 40 | 11 | M4X12 | 23 | 4 | 8.5 | 63 | 7 | 2-M20X1.5 | 225 | 115 | 95 | 140 | 10 | 3 |
| JL71 | 112 | 150 | 145 | 120 | 90 | 45 | 14 | M5X12 | 30 | 5 | 11 | 71 | 7 | 2-M20X1.5 | 250 | 130 | 110 | 160 | 10 | 3.5 |
| JL80 | 125 | 165 | 175 | 145 | 100 | 50 | 19 | M6X16 | 40 | 6 | 15.5 | 80 | 10 | 2-M25X1.5 | 295 | 165 | 130 | 200 | 12 | 3.5 |
| JL90S | 140 | 180 | 195 | 155 | 100 | 56 | 24 | M8X19 | 50 | 8 | 20 | 90 | 10 | 2-M25X1.5 | 315 | 165 | 130 | 200 | 12 | 3.5 |
| JL90L | 140 | 180 | 195 | 155 | 125 | 56 | 24 | M8X19 | 50 | 8 | 20 | 90 | 10 | 2-M25X1.5 | 340 | 165 | 130 | 200 | 12 | 3.5 |
| JL100L | 160 | 205 | 215 | 180 | 140 | 63 | 28 | M10X22 | 60 | 8 | 24 | 100 | 12 | 2-M32X1.5 | 385 | 215 | 180 | 250 | 15 | 4 |
| JL112M | 190 | 230 | 240 | 190 | 140 | 70 | 28 | M10X22 | 60 | 8 | 24 | 112 | 12 | 2-M32X1.5 | 400 | 215 | 180 | 250 | 15 | 4 |
| JL132S | 216 | 270 | 275 | 210 | 140 | 89 | 38 | M12X28 | 80 | 10 | 33 | 132 | 12 | 2-M32X1.5 | 470 | 265 | 230 | 300 | 15 | 4 |
| JL132M | 216 | 270 | 275 | 210 | 178 | 89 | 38 | M12X28 | 80 | 10 | 33 | 132 | 12 | 2-M32X1.5 | 510 | 265 | 230 | 300 | 15 | 4 |
| JL160M | 254 | 320 | 330 | 255 | 210 | 108 | 42 | M16X36 | 110 | 12 | 37 | 160 | 15 | 2-M40X1.5 | 615 | 300 | 250 | 350 | 19 | 5 |
| JL160L | 254 | 320 | 330 | 255 | 254 | 108 | 42 | M16X36 | 110 | 12 | 37 | 160 | 15 | 2-M40X1.5 | 670 | 300 | 250 | 350 | 19 | 5 |

# JL 56 -160

JL90

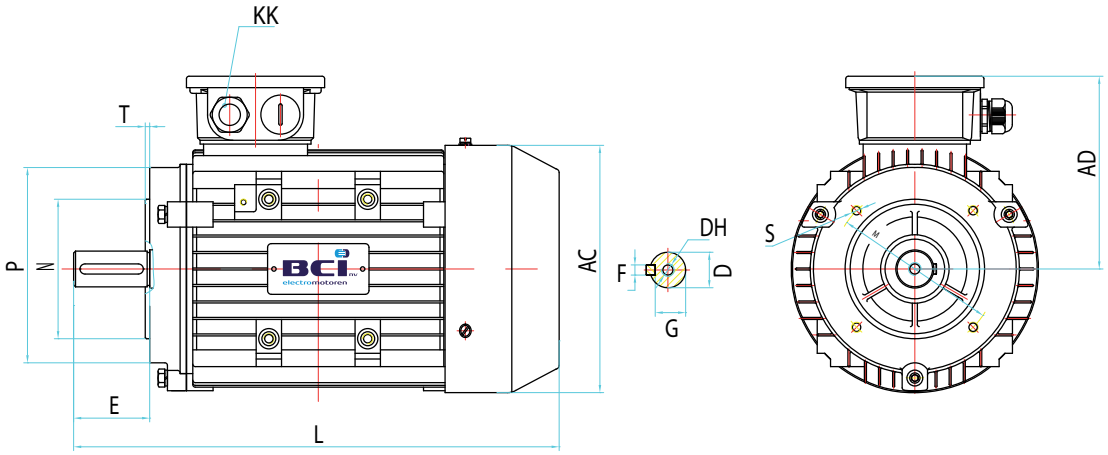


JL112

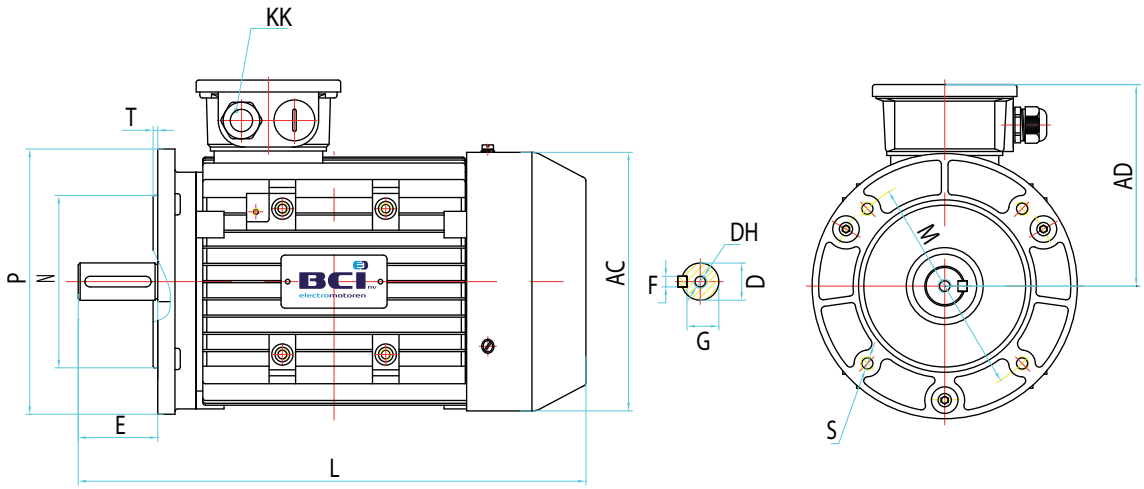


JL132

## B14A




## B14B




| | | | | | | | | | | B14A | | | | | B14B | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FRAME | AC | AD | D | DH | E | F | G | KK METRIC | L | M | N | P | S | T | M | N | P | S | T | |
| JL56 | 110 | 100 | 9 | M4X12 | 20 | 3 | 7.2 | 2-M20X1.5 | 170 | 65 | 50 | 80 | M5 | 2.5 | 85 | 70 | 105 | M6 | 2.5 | |
| JL63 | 130 | 115 | 11 | M4X12 | 23 | 4 | 8.5 | 2-M20X1.5 | 225 | 75 | 60 | 90 | M5 | 2.5 | 100 | 80 | 120 | M6 | 2.5 | standaard |
| | | | | | | | | | | | | | | | *85* | *70* | *105* | *M6* | *2.5* | *JL speciaal* |
| JL71 | 145 | 120 | 14 | M5X12 | 30 | 5 | 11 | 2-M20X1.5 | 250 | 85 | 70 | 105 | M6 | 2.5 | 115 | 95 | 140 | M8 | 3 | |
| JL80 | 175 | 145 | 19 | M6X16 | 40 | 6 | 15.5 | 2-M25X1.5 | 295 | 100 | 80 | 120 | M6 | 3 | 130 | 110 | 160 | M8 | 3.5 | |
| JL90S | 195 | 155 | 24 | M8X19 | 50 | 8 | 20 | 2-M25X1.5 | 315 | 115 | 95 | 140 | M8 | 3 | 130 | 110 | 160 | M8 | 3.5 | |
| JL90L | 195 | 155 | 24 | M8X19 | 50 | 8 | 20 | 2-M25X1.5 | 340 | 115 | 95 | 140 | M8 | 3 | 130 | 110 | 160 | M8 | 3.5 | |
| JL100L | 215 | 180 | 28 | M10X22 | 60 | 8 | 24 | 2-M32X1.5 | 385 | 130 | 110 | 160 | M8 | 3.5 | 165 | 130 | 200 | M10 | 3.5 | |
| JL112M | 240 | 190 | 28 | M10X22 | 60 | 8 | 24 | 2-M32X1.5 | 400 | 130 | 110 | 160 | M8 | 3.5 | 165 | 130 | 200 | M10 | 3.5 | |
| JL132S | 275 | 210 | 38 | M12X28 | 80 | 10 | 33 | 2-M32X1.5 | 470 | 165 | 130 | 200 | M10 | 3.5 | 215 | 180 | 250 | M12 | 4 | |
| JL132M | 275 | 210 | 38 | M12X28 | 80 | 10 | 33 | 2-M32X1.5 | 510 | 165 | 130 | 200 | M10 | 3.5 | 215 | 180 | 250 | M12 | 4 | |
| JL160M | 330 | 255 | 42 | M16X36 | 110 | 12 | 37 | 2-M40X1.5 | 615 | 215 | 180 | 250 | M12 | 4 | - | - | - | - | - | |
| JL160L | 330 | 255 | 42 | M16X36 | 110 | 12 | 37 | 2-M40X1.5 | 670 | 215 | 180 | 250 | M12 | 4 | - | - | - | - | - | |

# Kostenbesparing

## Vergelijking van de jaarlijkse kostenbesparing tussen IE2 en IE1 4-polige elektromotoren.

Elektriciteitsprijs 0,10 €/kWh

| Kostenbesparing Per Motor | | 0.75kW | 1.1kW | 1.5kW | 2.2kW | 3kW | 4kW | 5.5kW | 7.5kW | 11kW | 15kW | 18.5kW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2.000 uren** | kW/h | 196.02 | 230.63 | 262.82 | 301.25 | 344.42 | 389.08 | 444.25 | 530.92 | 615.27 | 709.29 | 863.20 |
| **8 uur per dag** | € | 19.60 | 23.06 | 26.28 | 30.12 | 34.44 | 38.91 | 44.43 | 53.09 | 61.53 | 70.93 | 86.32 |
| **4.000 uren** | kW/h | 392.04 | 461.26 | 525.64 | 602.50 | 688.84 | 778.16 | 888.51 | 1,061.85 | 1,230.54 | 1,418.58 | 1,726.39 |
| **16 uur per dag** | € | 39.20 | 46.13 | 52.56 | 60.25 | 68.88 | 77.82 | 88.95 | 106.18 | 123.05 | 141.86 | 172.64 |
| **8.760 uren** | kW/h | 858.58 | 1,010.16 | 1,151.16 | 1,319.47 | 1,508.56 | 1,704.17 | 1,945.83 | 2,325.45 | 2,694.88 | 3,106.68 | 3,780.80 |
| **Continue bedrijf** | € | 85.86 | 101.02 | 115.12 | 131.95 | 150.86 | 170.42 | 194.58 | 232.55 | 269.49 | 310.67 | 378.08 |
| **Efficiency %** | IE1 | 72.1 | 75 | 77.2 | 79.7 | 81.5 | 83.1 | 84.7 | 86 | 87.6 | 88.7 | 89.3 |
| | IE2 | 79.6 | 81.4 | 82.8 | 84.3 | 85.5 | 86.6 | 87.7 | 88.7 | 89.8 | 90.6 | 91.2 |
| | IE3 | 82.5 | 84.1 | 85.3 | 86.7 | 87.7 | 88.6 | 89.6 | 90.4 | 91.4 | 92.1 | 92.6 |

| Kostenbesparing Per Motor | | 22kW | 30kW | 37kW | 45kW | 55kW | 75kW | 90kW | 110kW | 132kW | 160kW | 200-375kW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2.000 uren** | kW/h | 908.20 | 1,146.73 | 1,312.95 | 1,475.88 | 1,788.34 | 2,237.83 | 2,465.58 | 2,994.27 | 3,577.86 | 3,954.34 | 4,922.03 |
| **8 uur per dag** | € | 90.83 | 114.67 | 131.30 | 147.59 | 178.83 | 223.78 | 246.56 | 299.43 | 357.79 | 395.43 | 492.20 |
| **4.000 uren** | kW/h | 1,816.67 | 2,293.47 | 2,625.90 | 2,951.76 | 3,576.67 | 4,475.66 | 4,931.17 | 5,988.53 | 7,155.72 | 7,908.67 | 9,844.06 |
| **16 uur per dag** | € | 181.67 | 229.35 | 262.59 | 295.18 | 357.67 | 447.57 | 493.12 | 598.85 | 715.57 | 790.87 | 984.41 |
| **8.760 uren** | kW/h | 3,978.50 | 5,022.69 | 5,750.72 | 6,464.36 | 7,832.92 | 9,801.69 | 10,799.26 | 13,114.89 | 15,671.04 | 17,319.99 | 21,558.49 |
| **Continue bedrijf** | € | 397.85 | 502.27 | 575.07 | 646.44 | 783.29 | 980,17 | 1,079.93 | 1,311.49 | 1,567.10 | 1,732.00 | 2,155.85 |
| **Efficiency %** | IE1 | 89.9 | 90.7 | 91.2 | 91.7 | 92.1 | 92.7 | 93 | 93.3 | 93.5 | 93.8 | 94 |
| | IE2 | 91.6 | 92.3 | 92.7 | 93.1 | 93.5 | 94 | 94.2 | 94.5 | 94.7 | 94.9 | 95.1 |
| | IE3 | 93 | 93.6 | 93.9 | 94.2 | 94.6 | 95 | 95.2 | 95.4 | 95.6 | 95.8 | 96 |

# JL1 80 -160 IE2

## 2 pole · 3000T/M · 50 Hz

| Type | Output | Speed | Efficiency η% (IE2) | Efficiency η% | Power Factor cos. φ% | In (Amps) | | | Tn | Ts Tn | Tmax Tn | Is In | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 100%FL | 100%FL | 100%FL | 380V | 400V | 415V | Nm | | | | (kg) |
| JL1-801-2 | 0.75 | 2875 | 77.4 | 77.6 | 0.83 | 1.77 | 1.68 | 1.62 | 2.49 | 2.5 | 3 | 5.30 | 12 |
| JL1-802-2 | 1,1 | 2875 | 79,6 | 79,7 | 0,84 | 2,50 | 2,37 | 2,29 | 3,65 | 3,2 | 3,8 | 7,00 | 13,5 |
| JL1-90S-2 | 1,5 | 2890 | 81,3 | 81,6 | 0,84 | 3,32 | 3,16 | 3,04 | 4,96 | 2.7 | 3,5 | 7,10 | 17,5 |
| JL1-90L-2 | 2.2 | 2890 | 83.2 | 83.3 | 0.85 | 4.72 | 4.48 | 4.32 | 7.27 | 2.4 | 3 | 6.90 | 22 |
| JL1-100L-2 | 3 | 2891 | 84.6 | 84.9 | 0.87 | 6.17 | 5.86 | 5.65 | 9.91 | 3.2 | 4 | 8.00 | 29 |
| JL1-112M-2 | 4 | 2914 | 85,8 | 85,9 | 0,88 | 8,04 | 7,64 | 7,36 | 13,11 | 2,5 | 3 | 7,50 | 32 |
| JL1-132S1-2 | 5.5 | 2937 | 87.0 | 87.1 | 0.86 | 11.2 | 10.6 | 10.2 | 17.88 | 2.7 | 3.5 | 7.50 | 47.5 |
| JL1-132S2-2 | 7.5 | 2940 | 88.1 | 88.4 | 0.88 | 14.6 | 13.9 | 13.4 | 24.36 | 2.4 | 3.3 | 7.50 | 53 |
| JL1-160M1-2 | 11 | 2930 | 89.4 | 89,5 | 0,89 | 21,0 | 19,9 | 19,2 | 35,85 | 2,2 | 2,9 | 7,60 | 96 |
| JL1-160M2-2 | 15 | 2930 | 90.3 | 90.3 | 0.89 | 28.4 | 26.9 | 26.0 | 48.89 | 2.3 | 3 | 7.60 | 105 |
| JL1-160L-2 | 18.5 | 2937 | 90.9 | 91.0 | 0.89 | 34.7 | 33.0 | 31.8 | 60.15 | 2.3 | 3.1 | 7.40 | 115 |
| JL1180M-2 | 22 | 2940 | 92,3 | 92,3 | 0,90 | 40,2 | 38,2 | 36,8 | 71.46 | 1.9 | 3 | 8,2 | 125 |

## 4 pole · 1500T/M · 50 Hz

| Type | Output | Speed | Efficiency η% (IE2) | Efficiency η% | Power Factor cos. φ% | In (Amps) | | | Tn | Ts Tn | Tmax Tn | Is In | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 100%FL | 100%FL | 100%FL | 380V | 400V | 415V | Nm | | | | (kg) |
| JL1-802-4 | 0,75 | 1400 | 79,6 | 79,8 | 0,76 | 1,88 | 1.78 | 1.72 | 5,12 | 2.4 | 2,9 | 5 | 14,5 |
| JL1-90S-4 | 1,1 | 1440 | 81.4 | 81,6 | 0.77 | 2,66 | 2,53 | 2.44 | 7,3 | 3 | 3,5 | 6 | 18,5 |
| JL1-90L-4 | 1,5 | 1445 | 82,8 | 82,9 | 0.77 | 3,57 | 3,39 | 3,27 | 9,91 | 3,2 | 3,8 | 6.8 | 21 |
| JL1-100L1-4 | 2,2 | 1440 | 84,3 | 84,5 | 0,81 | 4,88 | 4,64 | 4.47 | 14,6 | 3 | 3,5 | 7 | 31 |
| JL1-100L2-4 | 3 | 1440 | 85,5 | 85,5 | 0,82 | 6,50 | 6,18 | 5,95 | 19,9 | 2,6 | 3,3 | 7 | 37 |
| JL1-112M-4 | 4 | 1445 | 86.6 | 86.7 | 0,82 | 8.55 | 8,12 | 7,83 | 26.4 | 3.5 | 4 | 7.5 | 42 |
| JL1-132S-4 | 5,5 | 1455 | 87,7 | 87,8 | 0,83 | 11.5 | 10,9 | 10,5 | 36,1 | 2,2 | 2,8 | 6.4 | 52,5 |
| JL1-132M-4 | 7.5 | 1455 | 88.7 | 88.7 | 0.84 | 15.3 | 14.5 | 14.0 | 49.2 | 2.4 | 3 | 7 | 64 |
| JL1-160M-4 | 11 | 1460 | 89,8 | 89,9 | 0,84 | 22,1 | 21,0 | 20,3 | 71,9 | 2,5 | 2,9 | 6,9 | 99 |
| JL1-160L-4 | 15 | 1460 | 90,6 | 90,7 | 0,85 | 29,6 | 28,1 | 27,1 | 98,1 | 2,5 | 3 | 7,5 | 114 |
| JL1-180M-4 | 18.5 | 1470 | 91.2 | 91.3 | 086 | 358 | 34.0 | 32.8 | 120.2 | 2.6 | 3.1 | 7.8 | 120 |
| JL1-180L-4 | 22 | 1470 | 91,6 | 91,8 | 0,86 | 42,3 | 40,2 | 38,8 | 142,9 | 2,6 | 3,1 | 7,5 | 134 |

## 6 pole · 1000T/M · 50 Hz

| Type | Output | Speed | Efficiency η% (IE2) | Efficiency η% | Power Factor cos. φ% | In (Amps) | | | Tn | Ts Tn | Tmax Tn | Is In | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 100%FL | 100%FL | 100%FL | 380V | 400V | 415V | Nm | | | | (kg) |
| JL1-90S-6 | 0.75 | 934 | 75.9 | 76.1 | 0.72 | 2.08 | 1.98 | 1.90 | 7.67 | 2.2 | 2.4 | 4.5 | 18.5 |
| JL1-90L-6 | 1,1 | 945 | 78,1 | 78,1 | 0,72 | 2,97 | 2,82 | 2,72 | 11,1 | 2.4 | 2,6 | 4,5 | 21 |
| JL1-100L-6 | 1,5 | 945 | 79,8 | 79,9 | 0.75 | 3,80 | 3,61 | 3.48 | 15.2 | 1,8 | 2.2 | 4.2 | 28,5 |
| JL1-112M-6 | 2.2 | 960 | 81,8 | 81,9 | 0.76 | 5,37 | 5,10 | 4,92 | 21,9 | 2,3 | 2,8 | 4,5 | 33,5 |
| JL1-132S-6 | 3 | 964 | 83.3 | 83.4 | 0.76 | 7.19 | 6.83 | 6.58 | 29.7 | 1.8 | 2.4 | 4.5 | 44 |
| JL1-132M1-6 | 4 | 965 | 84,6 | 84,8 | 0,76 | 9.43 | 8,96 | 8,63 | 39.6 | 2,3 | 2.7 | 5 | 53 |
| JL1-132M2-6 | 5.5 | 965 | 86,0 | 86,2 | 0,77 | 12,6 | 12.0 | 11.5 | 54.4 | 1,9 | 2.8 | 5.5 | 63,5 |
| JL1-160M-6 | 7.5 | 970 | 87.2 | 87.3 | 0.78 | 16.7 | 15.9 | 15.3 | 73.8 | 2 | 3 | 65 | 100 |
| JL1-160L-6 | 11 | 970 | 88,7 | 88,8 | 0.78 | 24,1 | 22,9 | 22,1 | 108,3 | 2.4 | 3,3 | 7,5 | 113 |
| JL1-180L-6 | 15 | 975 | 89,7 | 89.7 | 0,81 | 31.4 | 29,8 | 28,7 | 146,9 | 2 | 2.7 | 6.4 | 126 |

**In=** Full Load Current **Is=**Locked Rotor Current **Ts=**Locked Rotor Torque **Tmax=** Maximum Torque **Tn=** Full Load Torque Ts/Tn: ratio of locked rotor torque and rated torque **Tmax/Tn:** ratio of break-down torque and rated torque **Is/In:** ratio of locked rotor amps and rated amps

# HL3 80-160 IE3

## 2 pole · 3000T/M · 50 Hz

| Type | Output | Speed | In (Amps) | | | Efficiency η% | Power Factor cos. φ% | Tn | Is | Ts | Tmax | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 380V | 400V | 415V | 100% FL | 100% FL | Nm | In | Tn | Tn | kg |
| HL3 80-2 | 0.75 | 2880 | 1.7 | 1.6 | 1.6 | 80.7 | 0.83 | 2.49 | 5.5 | 1.8 | 3.5 | 13 |
| HL3 80-2 | 1,1 | 2880 | 2,4 | 2,3 | 2,2 | 82,7 | 0,83 | 3,65 | 7,5 | 2,6 | 3,5 | 15 |
| HL3 90S-2 | 1,5 | 2895 | 3,3 | 3,1 | 3 | 84,2 | 0,83 | 4,95 | 7,1 | 2,6 | 3,5 | 19 |
| HL3 90L-2 | 2,2 | 2895 | 4,6 | 4,3 | 4,2 | 85,9 | 0,85 | 7,26 | 7 | 2 | 3 | 22 |
| HL3 100L-2 | 3 | 2895 | 5,9 | 5,6 | 5,4 | 87,1 | 0,88 | 9,9 | 8,6 | 2 | 3,2 | 31 |
| HL3 112M-2 | 4 | 2905 | 7,8 | 7,4 | 7,2 | 88,1 | 0,88 | 13,1 | 8 | 1,8 | 2,9 | 34 |
| HL3 132S-2 | 5,5 | 2930 | 11 | 10 | 9,8 | 89,2 | 0,88 | 17,9 | 7,5 | 2,1 | 2,5 | 49,5 |
| HL3 132S-2 | 7,5 | 2930 | 14 | 14 | 13 | 90,1 | 0,88 | 24,4 | 7,3 | 2 | 3,5 | 55 |
| HL3 160M-2 | 11 | 2945 | 20 | 19 | 19 | 91,2 | 0,9 | 35,7 | 7,3 | 2,3 | 2,6 | 99 |
| HL3 160M-2 | 15 | 2945 | 27 | 26 | 25 | 91,9 | 0,91 | 48,6 | 7 | 1,9 | 2,3 | 108 |
| HL3 160L-2 | 18,5 | 2940 | 34 | 32 | 31 | 92,4 | 0,89 | 60,1 | 7 | 1,6 | 2,5 | 118 |

## 4 pole · 1500T/M · 50 Hz

| Type | Output | Speed | In (Amps) | | | Efficiency η% | Power Factor cos. φ% | Tn | Is | Ts | Tmax | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 380V | 400V | 415V | 100% FL | 100% FL | Nm | In | Tn | Tn | kg |
| HL3 80-4 | 0,75 | 1420 | 1,86 | 1,77 | 1,7 | 82,5 | 0,74 | 5,04 | 6 | 2,9 | 3,6 | 16 |
| HL3 90S-4 | 1,1 | 1445 | 2,68 | 2,55 | 2,46 | 84,1 | 0,74 | 7,27 | 6,5 | 2,7 | 3,8 | 20 |
| HL3 90L-4 | 1,5 | 1445 | 3,61 | 3,43 | 3,3 | 85,3 | 0,74 | 9,91 | 6,8 | 3 | 3,6 | 23 |
| HL3 100L-4 | 2,2 | 1435 | 4,93 | 4,68 | 4,52 | 86,7 | 0,78 | 14,6 | | 2,5 | 3,5 | 32,5 |
| HL3 100L-4 | 3 | 1435 | 6,66 | 6,32 | 6,09 | 87,7 | 0,78 | 20 | 7,2 | 2,6 | 3,5 | 39 |
| HL3 112M-4 | 4 | 1440 | 8,56 | 8,14 | 7,84 | 88,6 | 0,8 | 26,5 | 7 | 2,3 | 3,2 | 44 |
| HL3 132S-4 | 5,5 | 1460 | 11,6 | 11,1 | 10,7 | 89,6 | 0,8 | 36 | 7,1 | 2,7 | 3,5 | 54,4 |
| HL3 132M-4 | 7,5 | 1460 | 15,3 | 14,6 | 14 | 90,4 | 0,82 | 49,1 | 7,2 | 2,7 | 3,8 | 66 |
| HL3 160M-4 | 11 | 1465 | 22,3 | 21,2 | 20,4 | 91,4 | 0,82 | 71,7 | 6,8 | 1,9 | 2,3 | 102 |
| HL3 160L-4 | 15 | 1465 | 30,1 | 28,6 | 27,6 | 92,1 | 0,82 | 97,8 | 6,8 | 1,8 | 2,4 | 117 |

## 6 pole · 1000T/M · 50 Hz

| Type | Output | Speed | In (Amps) | | | Efficiency η% | Power Factor cos. φ% | Tn | Is | Ts | Tmax | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 380V | 400V | 415V | 100% FL | 100% FL | Nm | In | Tn | Tn | kg |
| HL3 90S-6 | 0,75 | 935 | 2,36 | 2,2 | 2,2 | 78,9 | 0,61 | 7,66 | 4,5 | 2,5 | 3,3 | 20 |
| HL3 90L-6 | 1,1 | 945 | 2,99 | 2,8 | 2,7 | 81 | 0,69 | 11,1 | 4,4 | 1,7 | 3,3 | 23 |
| HL3 100L-6 | 1,5 | 950 | 4 | 3,8 | 3,7 | 82,5 | 0,69 | 15,1 | 5 | 2,3 | 3 | 30 |
| HL3 112M-6 | 2,2 | 955 | 5,58 | 5,3 | 5,1 | 84,3 | 0,71 | 22 | 5,5 | 2,6 | 3 | 36 |
| HL3 132S-6 | 3 | 965 | 7,48 | 7,1 | 6,9 | 85,6 | 0,71 | 29,7 | 5,5 | 2 | 3,1 | 46 |
| HL3 132M-6 | 4 | 965 | 9,85 | 9,4 | 9 | 86,8 | 0,71 | 39,6 | 5,7 | 2,1 | 2,6 | 55 |
| HL3 132M-6 | 5,5 | 970 | 12,6 | 12 | 12 | 88 | 0,75 | 54,1 | 6 | 1,7 | 2,6 | 65,5 |
| HL3 160M-6 | 7,5 | 970 | 16,6 | 16 | 15 | 89,1 | 0,77 | 73,8 | 5,9 | 1,7 | 2,5 | 103 |
| HL3 160L-6 | 11 | 970 | 23,4 | 22 | 21 | 90,3 | 0,79 | 108,3 | 6 | 1,5 | 2,4 | 116 |

In=Full load current Is= locked rotor current Ts= locked rotor torque Tmax= maximum torque Tn=Full load torque Ts/Tn= ratio of locked rotor torque and rated torque Tmax/Tn= ratio of brake-down torque and rated torque Is/In= ratio of locked rotor amps and rated amps

# JL1 80 -160 IE2

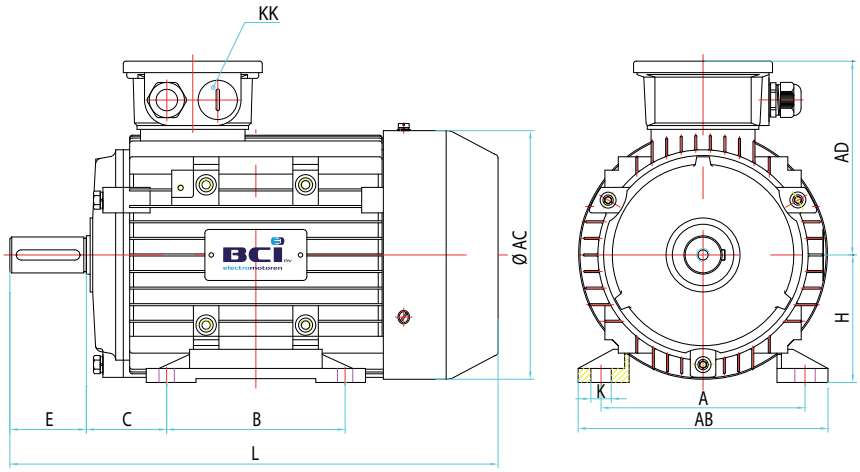
JL156

JL163

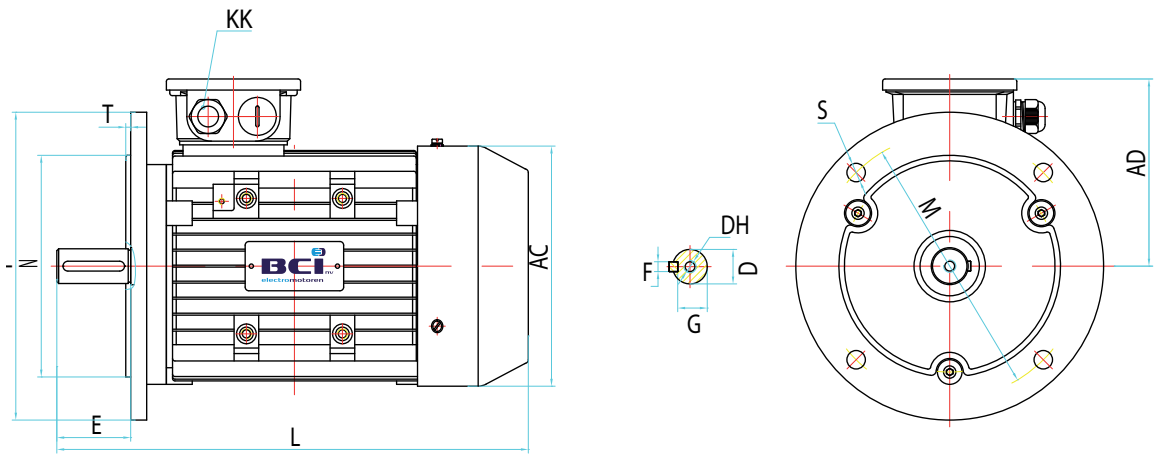
JL171

JL180

## B3




## B5




| | B3 | | | | | | | | | | | | | | | B5 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FRAME | A | AB | AC | AD | B | C | D | DH | E | F | G | H | K | KK Metric | L | M | N | P | S | T |
| 80 | 125 | 157 | 158 | 129 | 100 | 50 | 19 | M6X16 | 40 | 6 | 15.5 | 80 | 10X14 | 1-M25X1,5 | 290 | 165 | 130 | 200 | 12 | 3. 5 |
| 90S | 140 | 173 | 175 | 140 | 100 | 56 | 24 | M8X19 | 50 | 8 | 20 | 90 | 10X14 | 1-M25X1,5 | 325 | 165 | 130 | 200 | 12 | 3. 5 |
| 90L | 140 | 173 | 175 | 140 | 125 | 56 | 24 | M8X19 | 50 | 8 | 20 | 90 | 10X14 | 1-M25X1,5 | 350 | 165 | 130 | 200 | 12 | 3. 5 |
| 100L | 160 | 196 | 198 | 156 | 140 | 63 | 28 | M10X22 | 60 | 8 | 24 | 100 | 12X16 | 1-M32X1,5 | 398 | 215 | 180 | 250 | 14. 5 | 4 |
| 112M | 190 | 227 | 219 | 166 | 140 | 70 | 28 | M10X22 | 60 | 8 | 24 | 112 | 12X16 | 2-M32X1,5 | 447 | 215 | 180 | 250 | 14. 5 | 4 |
| 132S | 216 | 262 | 258 | 188 | 140 | 89 | 38 | M12X28 | 80 | 10 | 33 | 132 | 12X16 | 2-M32X1,5 | 475 | 265 | 230 | 300 | 14. 5 | 4 |
| 132M | 216 | 262 | 258 | 188 | 178 | 89 | 38 | M12X28 | 80 | 10 | 33 | 132 | 12X16 | 2-M32X1,5 | 513 | 265 | 230 | 300 | 14. 5 | 4 |
| 160M | 254 | 304 | 315 | 242 | 210 | 108 | 42 | M16X36 | 110 | 12 | 37 | 160 | 15X18 | 2-M40X1,5 | 609 | 300 | 250 | 350 | 18. 5 | 5 |
| 160L | 254 | 304 | 315 | 242 | 254 | 108 | 42 | M16X36 | 110 | 12 | 37 | 160 | 15x18 | 2-M40X1,5 | 653 | 300 | 250 | 350 | 18. 5 | 5 |
| 180M | 279 | 350 | 355 | 272 | 241 | 121 | 48 | M16X36 | 110 | 14 | 42,5 | 180 | 15X18 | 2-M40X1,5 | 727 | 300 | 250 | 350 | 18. 5 | 5 |
| 180L | 279 | 350 | 355 | 272 | 279 | 121 | 48 | M16X36 | 110 | 14 | 42,5 | 180 | 15x18 | 2-M40X1,5 | 765 | 300 | 250 | 350 | 18. 5 | 5 |

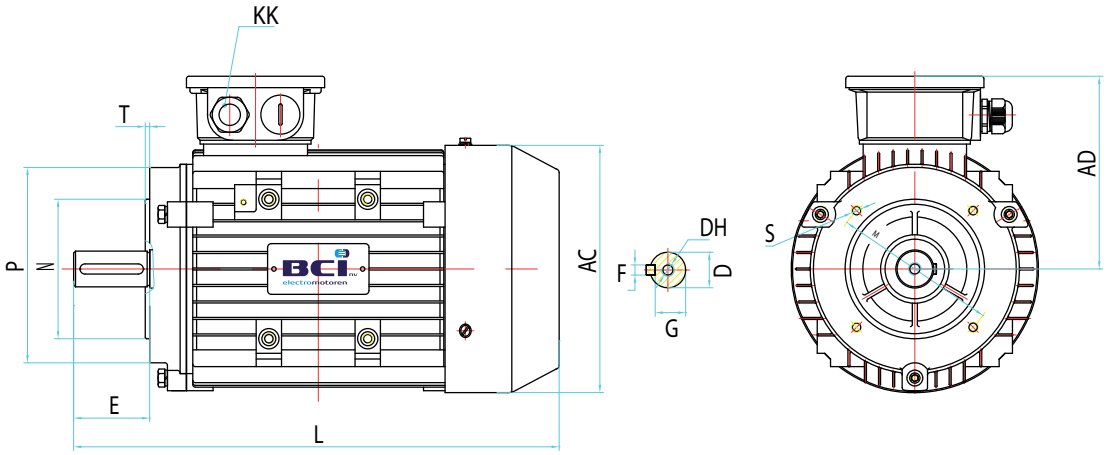
# JL1 80 -160 IE2

JL1 90

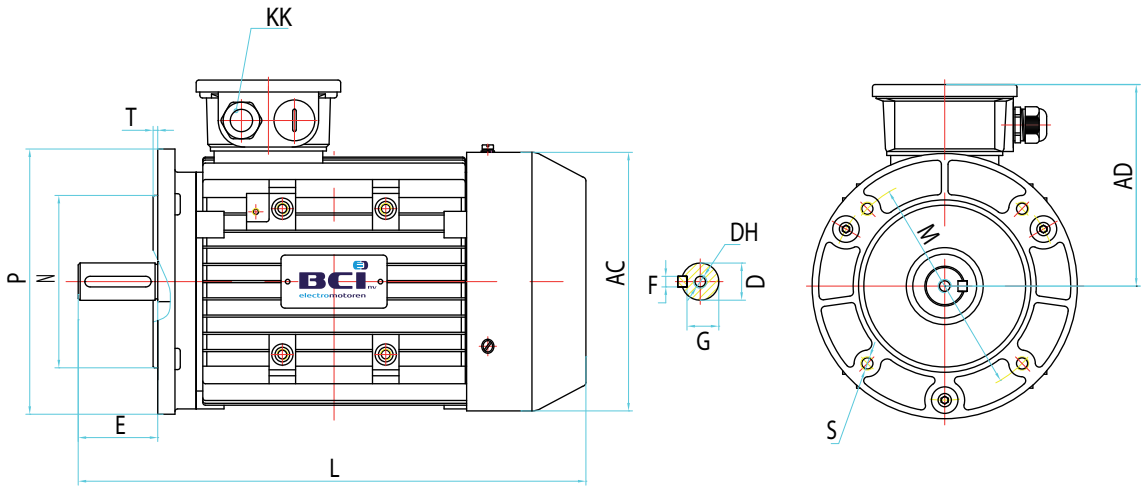
JL1 112

JL1 132

## B14A




## B14B




| | | | | | | | | | | B14A | | | | | B14B | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FRAME | AC | AD | D | DH | E | F | G | KK METRIC | L | M | N | P | S | T | M | N | P | S | T |
| **80** | 158 | 129 | 19 | M6X16 | 40 | 6 | 15.5 | 1-M25X1.5 | 290 | 100 | 80 | 120 | M6 | 3 | 130 | 110 | 160 | M8 | 3.5 |
| **90S** | 175 | 140 | 24 | M8X19 | 50 | 8 | 20 | 1-M25X1.5 | 325 | 115 | 95 | 140 | M8 | 3 | 130 | 110 | 160 | M8 | 3.5 |
| **90L** | 175 | 140 | 24 | M8X19 | 50 | 8 | 20 | 1-M25X1.5 | 350 | 115 | 95 | 140 | M8 | 3 | *130* | *110* | *160* | *M8* | *3.5* |
| **100L** | 198 | 156 | 28 | M10X22 | 60 | 8 | 24 | 1-M32X1.5 | 398 | 130 | 110 | 160 | M8 | 3. 5 | 165 | 130 | 200 | M10 | 3.5 |
| **112M** | 219 | 166 | 28 | M10X22 | 60 | 8 | 24 | 2-M32X1.5 | 447 | 130 | 110 | 160 | M8 | 3. 5 | 165 | 130 | 200 | M10 | 3.5 |
| **132S** | 258 | 188 | 38 | M12X28 | 80 | 10 | 33 | 2-M32X1.5 | 475 | 165 | 130 | 200 | M10 | 3. 5 | 215 | 180 | 250 | M12 | 4 |
| **132M** | 258 | 188 | 38 | M12X28 | 80 | 10 | 33 | 2-M32X1.5 | 513 | 165 | 130 | 200 | M10 | 3. 5 | 215 | 180 | 250 | M12 | 4 |
| **160M** | 315 | 242 | 42 | M16X36 | 110 | 12 | 37 | 2-M40X1.5 | 609 | 215 | 180 | 250 | M12 | 4 | 265 | 230 | 300 | M12 | 4 |
| **160L** | 315 | 242 | 42 | M16X36 | 110 | 12 | 37 | 2-M40X1.5 | 653 | 215 | 180 | 250 | M12 | 4 | 265 | 230 | 300 | M12 | 4 |

# JM1 63 -355 IE2

## 2 pole · 3000T/M · 50 Hz

| Type | Output | Speed | In (Amps) | | | Efficiency η% | Power Factor cos. φ% | Tn | Ts | Tmax | Is | Noise Level | Moment of intertia J | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 380V | 400V | 415V | 100% FL | 100% FL | Nm | Tn | Tn | In | dB(A) | Kgm² | kg |
| JM1-631-2 | 0.18 | 2720 | 0.52 | 0.5 | 0.48 | 65.0 | 0.80 | 0.61 | 2.2 | 2.2 | 5.5 | 61 | 0.0031 | 14 |
| JM1-632-2 | 0.25 | 2720 | 0.69 | 0.65 | 0.63 | 68.0 | 0.81 | 0.96 | 2.2 | 2.2 | 5.5 | 61 | 0.0004 | 14.5 |
| JM1-711-2 | 0.37 | 2740 | 0.99 | 0.94 | 0.91 | 70.0 | 0.81 | 1.26 | 2.2 | 2.2 | 6.1 | 64 | 0.0006 | 15 |
| JM1-712-2 | 0.55 | 2740 | 1.39 | 1.33 | 1.29 | 73.0 | 0.82 | 1.88 | 2.2 | 2.3 | 6.1 | 64 | 0.0006 | 15.5 |
| JM1-801-2 | 0.75 | 2840 | 1.7 | 1.62 | 1.56 | 80.6 | 0.83 | 2.54 | 2.2 | 2.3 | 6.1 | 67 | 0.0008 | 15.5 |
| JM1-802-2 | 1.1 | 2840 | 2.4 | 2.28 | 2.19 | 82.9 | 0.84 | 3.72 | 3 | 3.2 | 8 | 67 | 0.0009 | 17.5 |
| JM1-90S-2 | 1.5 | 2840 | 3.22 | 3.06 | 2.95 | 84.2 | 0.84 | 5.04 | 3 | 3.2 | 8 | 72 | 0.0012 | 21 |
| JM1-90L-2 | 2.2 | 2840 | 4.59 | 4.31 | 4.2 | 85.7 | 0.85 | 7.4 | 3 | 3.2 | 8 | 72 | 0.0014 | 25 |
| JM1-100L-2 | 3 | 2860 | 6.04 | 5.73 | 5.53 | 86.8 | 0.87 | 9.95 | 2.8 | 3.2 | 8 | 76 | 0.0029 | 33 |
| JM1-112M-2 | 4 | 2880 | 7.87 | 7.48 | 7.21 | 87.7 | 0.88 | 13.22 | 2.5 | 3.2 | 8 | 77 | 0.0055 | 41 |
| JM1-132S1-2 | 5.5 | 2900 | 10.7 | 10.2 | 9.79 | 88.8 | 0.88 | 18.11 | 2.2 | 3.2 | 8 | 80 | 0.0109 | 63 |
| JM1-132S2-2 | 7.5 | 2900 | 14.5 | 13.7 | 13.2 | 89.6 | 0.88 | 24.7 | 2.2 | 3.2 | 8 | 80 | 0.0126 | 70 |
| JM1-160M1-2 | 11 | 2930 | 20.7 | 19.6 | 18.9 | 90.8 | 0.89 | 35.85 | 1.9 | 3 | 8 | 86 | 0.0377 | 110 |
| JM1-160M2-2 | 15 | 2930 | 28 | 26.6 | 25.6 | 91.5 | 0.89 | 48.89 | 1.9 | 3 | 8 | 86 | 0.0499 | 120 |
| JM1-160L-2 | 18.5 | 2930 | 33.9 | 32.3 | 31.1 | 92.0 | 0.90 | 60.3 | 1.9 | 3 | 8 | 86 | 0.055 | 135 |
| JM1-180M-2 | 22 | 2940 | 40.2 | 38.2 | 36.8 | 92.3 | 0.90 | 71.46 | 1.9 | 3 | 8.2 | 89 | 0.075 | 165 |
| JM1-200L1-2 | 30 | 2950 | 54.5 | 51.7 | 49.9 | 93.0 | 0.90 | 97.12 | 1.9 | 3 | 7.6 | 92 | 0.124 | 218 |
| JM1-200L2-2 | 37 | 2950 | 66.8 | 63.5 | 61.2 | 93.5 | 0.90 | 119.78 | 1.9 | 3 | 7.6 | 92 | 0.139 | 230 |
| JM1-225M-2 | 45 | 2960 | 81 | 76.9 | 74.2 | 93.8 | 0.90 | 144.7 | 1.8 | 2.5 | 7.6 | 92 | 0.233 | 280 |
| JM1-250M-2 | 55 | 2965 | 98.6 | 93.6 | 90.3 | 94.2 | 0.90 | 176.85 | 1.8 | 2.5 | 8.2 | 93 | 0.312 | 365 |
| JM1-280S-2 | 75 | 2970 | 134 | 127 | 122 | 94.8 | 0.90 | 241.16 | 1.7 | 2.5 | 7.6 | 94 | 0.579 | 495 |
| JM1-280M-2 | 90 | 2970 | 158 | 150 | 145 | 95.2 | 0.91 | 289.39 | 1.7 | 2.5 | 7.6 | 94 | 0.675 | 565 |
| JM1-315S-2 | 110 | 2975 | 193 | 183 | 177 | 95.2 | 0.91 | 352.51 | 1.6 | 2.2 | 7.2 | 96 | 1.18 | 890 |
| JM1-315M-2 | 132 | 2975 | 231 | 219 | 211 | 95.5 | 0.91 | 423.02 | 1.6 | 2.2 | 7.2 | 96 | 1.82 | 980 |
| JM1-315L1-2 | 160 | 2975 | 276 | 263 | 253 | 95.6 | 0.92 | 512.75 | 1.6 | 2.2 | 7.2 | 99 | 2.08 | 1055 |
| JM1-315L2-2 | 200 | 2975 | 346 | 329 | 317 | 95.5 | 0.92 | 640.94 | 1.6 | 2.2 | 7.2 | 99 | 2.38 | 1110 |
| JM1-355M-2 | 250 | 2980 | 430 | 409 | 394 | 96.0 | 0.92 | 799.83 | 1.6 | 2.2 | 7.2 | 103 | 3.00 | 1900 |
| JM1-355L-2 | 315 | 2980 | 542 | 515 | 496 | 96.0 | 0.92 | 1007.9 | 1.6 | 2.2 | 7.2 | 103 | 3.50 | 2300 |

**Ts/Tn =** ratio of locked rotor torque and rated torque
**Tmax/Tn =** ratio of break-down torque and rated torque
**Is/In =** ratio of locked rotor amps and rated amps
**In =** Full Load Current · **Is =** Locked Rotor Current · **Ts =** Locked Rotor Torque · **Tmax =** Maximum Torque · **Tn =** Full Load Torque

# JM1 71 -355 IE2

## 4 pole · 1500T/M · 50 Hz

| Type | Output | Speed | In (Amps) | | | Efficiency η% | Power Factor cos. φ% | Tn | Ts | Tmax | Is | Noise Level | Moment of intertia J | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 380V | 400V | 415V | 100% FL | 100% FL | Nm | Tn | Tn | In | dB(A) | Kgm² | kg |
| JM1-71-4 | 0.37 | 1330 | 1.12 | 1.06 | 1.02 | 67.0 | 0.75 | 2.54 | 2.1 | 2.2 | 5.2 | 55 | 0.0008 | 14.5 |
| JM1-80-4 | 0.55 | 1390 | 1.38 | 1.31 | 1.26 | 80.6 | 0.75 | 3.78 | 2.4 | 2.3 | 5.2 | 58 | 0.0018 | 15 |
| JM1-80-4 | 0.75 | 1390 | 1.82 | 1.73 | 1.67 | 82.4 | 0.76 | 5.15 | 2.4 | 2.3 | 6.0 | 58 | 0.0021 | 16 |
| JM1-90S-4 | 1.1 | 1390 | 2.59 | 2.46 | 2.37 | 83.9 | 0.77 | 7.50 | 2.7 | 3.0 | 7.0 | 61 | 0.0023 | 23 |
| JM1-90L-4 | 1.5 | 1390 | 3.39 | 3.22 | 3.11 | 85.1 | 0.79 | 10.23 | 2.7 | 3.0 | 7.0 | 61 | 0.0027 | 25 |
| JM1-100L1-4 | 2.2 | 1410 | 4.77 | 4.53 | 4.37 | 86.5 | 0.81 | 14.80 | 2.5 | 2.8 | 7.0 | 64 | 0.0054 | 33 |
| JM1-100L2-4 | 3 | 1410 | 6.35 | 6.04 | 5.82 | 87.5 | 0.82 | 20.18 | 2.5 | 2.8 | 7.0 | 64 | 0.0067 | 35 |
| JM1-112M-4 | 4 | 1435 | 8.37 | 7.96 | 7.67 | 88.5 | 0.82 | 26.53 | 2.2 | 2.8 | 7.0 | 65 | 0.0095 | 41 |
| JM1-132S-4 | 5.5 | 1440 | 11.3 | 10.7 | 10.3 | 89.3 | 0.83 | 36.48 | 2.2 | 2.8 | 7.0 | 71 | 0.0214 | 65 |
| JM1-132M-4 | 7.5 | 1440 | 15 | 14.3 | 13.8 | 90.2 | 0.84 | 49.74 | 2.2 | 2.8 | 7.0 | 71 | 0.0296 | 76 |
| JM1-160M-4 | 11 | 1460 | 21.8 | 20.7 | 20.0 | 91.1 | 0.84 | 71.59 | 2.1 | 2.8 | 7.5 | 75 | 0.0747 | 118 |
| JM1-160L-4 | 15 | 1460 | 29.1 | 27.7 | 26.7 | 92.0 | 0.85 | 98.12 | 2.1 | 2.8 | 7.5 | 75 | 0.0918 | 132 |
| JM1-180M-4 | 18.5 | 1470 | 35.4 | 33.6 | 32.4 | 92.3 | 0.86 | 120.19 | 2.1 | 2.8 | 7.5 | 76 | 0.139 | 164 |
| JM1-180L-4 | 22 | 1470 | 41.9 | 39.8 | 38.4 | 92.8 | 0.86 | 142.93 | 2.1 | 2.5 | 7.5 | 76 | 0.158 | 182 |
| JM1-200L-4 | 30 | 1470 | 56.8 | 54 | 52 | 93.3 | 0.86 | 160.98 | 2.1 | 2.5 | 7.5 | 79 | 0.262 | 245 |
| JM1-225S-4 | 37 | 1475 | 68.9 | 65.4 | 63.1 | 93.8 | 0.87 | 198.51 | 1.8 | 2.3 | 7.5 | 81 | 0.406 | 258 |
| JM1-225M-4 | 45 | 1475 | 83.6 | 79.4 | 76.6 | 94.0 | 0.87 | 290.37 | 1.8 | 2.3 | 7.5 | 81 | 0.469 | 290 |
| JM1-250M-4 | 55 | 1480 | 102 | 96.7 | 93.2 | 94.4 | 0.87 | 354.90 | 1.8 | 2.3 | 7.5 | 83 | 0.66 | 388 |
| JM1-280S-4 | 75 | 1480 | 138 | 131 | 126 | 94.9 | 0.87 | 483.95 | 1.8 | 2.3 | 7.5 | 86 | 1.12 | 510 |
| JM1-280M-4 | 90 | 1480 | 165 | 157 | 151 | 95.2 | 0.87 | 578.79 | 1.8 | 2.3 | 7.5 | 86 | 1.46 | 606 |
| JM1-315S-4 | 110 | 1480 | 199 | 189 | 182 | 95.5 | 0.88 | 707.41 | 1.7 | 2.2 | 7.2 | 93 | 3.11 | 910 |
| JM1-315M-4 | 132 | 1480 | 238 | 226 | 218 | 95.6 | 0.88 | 848.89 | 1.7 | 2.2 | 7.2 | 93 | 3.62 | 1000 |
| JM1-315L1-4 | 160 | 1480 | 285 | 271 | 261 | 95.8 | 0.89 | 1029 | 1.7 | 2.2 | 7.2 | 97 | 4.13 | 1055 |
| JM1-315L2-4 | 200 | 1480 | 357 | 339 | 327 | 95.6 | 0.89 | 1286.2 | 1.7 | 2.2 | 7.2 | 97 | 4.73 | 1128 |
| JM1-355M-4 | 250 | 1490 | 440 | 418 | 403 | 96.0 | 0.90 | 1602.4 | 1.7 | 2.2 | 7.2 | 101 | 6.5 | 1700 |
| JM1-355L-4 | 315 | 1490 | 554 | 526 | 507 | 96.0 | 0.90 | 2019 | 1.7 | 2.2 | 7.2 | 101 | 8.2 | 1900 |

**Ts/Tn =** ratio of locked rotor torque and rated torque
**Tmax/Tn =** ratio of break-down torque and rated torque
**Is/In =** ratio of locked rotor amps and rated amps
**In =** Full Load Current · **Is =** Locked Rotor Current · **Ts =** Locked Rotor Torque · **Tmax =** Maximum Torque · **Tn =** Full Load Torque

# JM1 71 -355 IE2

## 6 pole · 1000T/M · 50 Hz

| Type | Output | Speed | In (Amps) | | | Efficiency η% | Power Factor cos. φ% | Tn | Ts | Tmax | Is | Noise Level | Moment of intertia J | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 380V | 400V | 415V | 100% FL | 100% FL | Nm | Tn | Tn | In | dB(A) | Kgm² | kg |
| JM1-71l-6 | 0.18 | 850 | 0.74 | 0.7 | 0.68 | 56.0 | 0.66 | 1.91 | 1.9 | 2.2 | 4 | 50 | 0.0011 | 14 |
| JM1-712-6 | 0.25 | 850 | 0.95 | 0.9 | 0.87 | 59.0 | 0.68 | 2.65 | 1.9 | 2.0 | 4 | 50 | 0.0014 | 14.5 |
| JM1-801-6 | 0.37 | 885 | 1.29 | 1.23 | 1.18 | 62.0 | 0.70 | 3.93 | 1.9 | 2.0 | 4.7 | 52 | 0.0016 | 15 |
| JM1-802-6 | 0.55 | 885 | 1.54 | 1.46 | 1.41 | 75.5 | 0.72 | 5.84 | 1.9 | 2.1 | 4.7 | 52 | 0.0019 | 16 |
| JM1-90S-6 | 0.75 | 910 | 2.03 | 1.93 | 1.86 | 77.8 | 0.72 | 7.87 | 2.5 | 2.5 | 5.5 | 55 | 0.0029 | 19 |
| JM1-90L-6 | 1.1 | 910 | 2.86 | 2.72 | 2.62 | 80 | 0.73 | 11.54 | 2.5 | 2.5 | 5.5 | 55 | 0.0035 | 22 |
| JM1-100L-6 | 1.5 | 920 | 3.72 | 3.53 | 3.41 | 81.7 | 0.75 | 15.24 | 2.2 | 2.5 | 5.5 | 59 | 0.0069 | 32 |
| JM1-112M-6 | 2.2 | 935 | 5.26 | 5 | 4.82 | 83.6 | 0.76 | 22.35 | 2.2 | 2.5 | 5.5 | 63 | 0.0140 | 41 |
| JM1-132S-6 | 3 | 960 | 7.05 | 6.7 | 6.45 | 85.1 | 0.76 | 29.84 | 2.1 | 2.5 | 5.5 | 67 | 0.0286 | 63 |
| JM1-132M1-6 | 4 | 960 | 9.27 | 8.8 | 8.48 | 86.3 | 0.76 | 39.79 | 2.1 | 2.5 | 6 | 67 | 0.0357 | 72 |
| JM1-132M2-6 | 5.5 | 960 | 12.4 | 11.8 | 11.3 | 87.6 | 0.77 | 54.71 | 2.1 | 2.5 | 6 | 67 | 0.0449 | 81 |
| JM1-160M-6 | 7.5 | 970 | 16.6 | 15.8 | 15.2 | 89.2 | 0.77 | 73.84 | 2.1 | 2.5 | 6 | 71 | 0.081 | 118 |
| JM1-160L-6 | 11 | 970 | 22.6 | 22.6 | 21.8 | 90.2 | 0.78 | 108.30 | 2.1 | 2.5 | 6.5 | 71 | 0.116 | 145 |
| JM1-180L-6 | 15 | 970 | 30.9 | 29.3 | 28.2 | 91.2 | 0.81 | 147.68 | 2.1 | 2.5 | 6.5 | 71 | 0.207 | 178 |
| JM1-200L1-6 | 18.5 | 980 | 37.8 | 36 | 34.7 | 91.7 | 0.81 | 182.14 | 2.1 | 2.5 | 7 | 74 | 0.315 | 200 |
| JM1-200L2-6 | 22 | 980 | 43.7 | 41.5 | 40 | 92.2 | 0.83 | 216.60 | 2.1 | 2.5 | 7 | 74 | 0.360 | 228 |
| JM1-225M-6 | 30 | 980 | 58.6 | 55.7 | 53.7 | 92.6 | 0.84 | 292.35 | 1.8 | 2.0 | 7 | 74 | 0.547 | 265 |
| JM1-250M-6 | 37 | 980 | 70.1 | 66.6 | 64.2 | 93.2 | 0.86 | 360.26 | 1.8 | 2.0 | 7 | 76 | 0.843 | 370 |
| JM1-280S-6 | 45 | 980 | 84.8 | 80.6 | 77.7 | 93.7 | 0.86 | 438.52 | 1.8 | 2.0 | 7 | 78 | 1.39 | 490 |
| JM1-280M-6 | 55 | 980 | 103 | 98.2 | 94.7 | 94 | 0.86 | 535.97 | 1.8 | 2.0 | 7 | 78 | 1.65 | 540 |
| JM1-315S-6 | 75 | 985 | 140 | 133 | 128 | 94.6 | 0.86 | 730.87 | 1.8 | 2.0 | 7 | 83 | 4.11 | 900 |
| JM1-315M-6 | 90 | 985 | 167 | 159 | 153 | 95 | 0.86 | 872.59 | 1.8 | 2.0 | 7 | 83 | 4.78 | 980 |
| JM1-315L1-6 | 110 | 985 | 204 | 194 | 187 | 95.2 | 0.86 | 1066.5 | 1.8 | 2.0 | 7 | 83 | 5.45 | 1045 |
| JM1-315L2-6 | 132 | 985 | 241 | 229 | 221 | 95.5 | 0.87 | 1279.8 | 1.8 | 2.0 | 7 | 83 | 6.12 | 1100 |
| JM1-355M1-6 | 160 | 990 | 288 | 274 | 264 | 95.8 | 0.88 | 1543.4 | 1.8 | 2.0 | 7 | 90 | 9.50 | 1550 |
| JM1-355M2-6 | 200 | 990 | 363 | 345 | 332 | 95.2 | 0.88 | 1913.3 | 1.8 | 2.0 | 7 | 90 | 10.4 | 1600 |
| JM1-355L-6 | 250 | 990 | 454 | 431 | 416 | 95.1 | 0.88 | 2411.6 | 1.8 | 2.0 | 7 | 90 | 12.4 | 1700 |

**Ts/Tn =** ratio of locked rotor torque and rated torque
**Tmax/Tn =** ratio of break-down torque and rated torque
**Is/In =** ratio of locked rotor amps and rated amps
**In =** Full Load Current · **Is =** Locked Rotor Current · **Ts =** Locked Rotor Torque · **Tmax =** Maximum Torque · **Tn =** Full Load Torque

# JM1 80 -355 IE2

## 8 pole · 750T/M · 50 Hz

| Type | Output | Speed | In (Amps) | | | Efficiency η% | Power Factor cos. φ% | Tn | Ts | Tmax | Is | Noise Level | Moment of intertia J | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 380V | 400V | 415V | 100% FL | 100% FL | Nm | Tn | Tn | In | dB(A) | Kgm² | kg |
| JM1-80L-8 | 0.18 | 645 | 0.88 | 0.83 | 0.8 | 51.0 | 0.61 | 2.49 | 1.8 | 1.9 | 3.3 | 52 | 0.0025 | 16 |
| JM1-802-8 | 0.25 | 645 | 1.57 | 1.09 | 1.05 | 54.0 | 0.61 | 3.46 | 1.8 | 1.9 | 3.3 | 52 | 0.003 | 18 |
| JM1-90S-8 | 0.37 | 670 | 1.49 | 1.41 | 1.36 | 62.0 | 0.61 | 5.12 | 1.8 | 1.9 | 4.9 | 56 | 0.0051 | 22 |
| JM1-90L-8 | 0.55 | 670 | 2.17 | 2.06 | 1.99 | 63.0 | 0.61 | 7.61 | 1.8 | 2.0 | 4.0 | 56 | 0.0065 | 24 |
| JM1-100L1-8 | 0.75 | 680 | 2.31 | 2.2 | 2.12 | 73.6 | 0.67 | 10.23 | 1.8 | 2.0 | 4.0 | 59 | 0.009 | 30 |
| JM1-100L2-8 | 1.1 | 680 | 3.17 | 3.01 | 2.9 | 76.5 | 0.69 | 15.00 | 1.8 | 2.0 | 5.0 | 59 | 0.011 | 32 |
| JM1-112M.8 | 1.5 | 690 | 4.2 | 3.99 | 3.85 | 78.6 | 0.69 | 20.46 | 1.8 | 2.0 | 5.0 | 61 | 0.0245 | 40 |
| JM1-132S-8 | 2.2 | 705 | 5.81 | 5.51 | 5.32 | 81.1 | 0.71 | 29.59 | 1.8 | 2.0 | 6.0 | 64 | 0.0314 | 64 |
| JM1-132M-8 | 3 | 705 | 7.54 | 7.16 | 6.91 | 82.8 | 0.73 | 40.35 | 1.8 | 2.0 | 6.0 | 64 | 0.0395 | 78 |
| JM1-160M1-8 | 4 | 720 | 9.86 | 9.37 | 9.03 | 84.4 | 0.73 | 53.06 | 1.9 | 2.0 | 6.0 | 68 | 0.0753 | 105 |
| JM1-160M2-8 | 5.5 | 720 | 13.1 | 12.5 | 12 | 86.0 | 0.74 | 72.59 | 2.0 | 2.0 | 6.0 | 68 | 0.0931 | 115 |
| JM1-160L-8 | 7.5 | 720 | 17.4 | 16.5 | 15.9 | 87.3 | 0.75 | 99.50 | 2.0 | 2.0 | 6.0 | 68 | 0.126 | 145 |
| JM1-180L-8 | 11 | 730 | 24.7 | 23.5 | 22.6 | 89 | 0.76 | 143.90 | 2.0 | 2.0 | 6.0 | 70 | 0.203 | 160 |
| JM1-200L-8 | 15 | 730 | 33.2 | 31.6 | 30.4 | 90.2 | 0.76 | 196.23 | 2.0 | 2.0 | 6.6 | 73 | 0.399 | 228 |
| JM1-225S-8 | 18.5 | 730 | 40.7 | 38.7 | 37.3 | 90.8 | 0.76 | 242.02 | 1.9 | 2.0 | 6.6 | 73 | 0.491 | 242 |
| JM1-225M-8 | 22 | 730 | 46.9 | 44.5 | 42.9 | 91.4 | 0.78 | 287.81 | 1.9 | 2.0 | 6.6 | 73 | 0.547 | 265 |
| JM1-250M-8 | 30 | 735 | 62.5 | 59.4 | 57.2 | 92.3 | 0.79 | 382.47 | 1.9 | 2.0 | 6.6 | 75 | 0.834 | 368 |
| JM1-280S-8 | 37 | 735 | 76.6 | 72.8 | 70.1 | 92.9 | 0.79 | 484.04 | 1.9 | 2.0 | 6.6 | 76 | 1.93 | 472 |
| JM1-280M-8 | 45 | 735 | 92.7 | 88 | 84.8 | 93.4 | 0.79 | 580.74 | 1.8 | 2.0 | 6.6 | 76 | 3.65 | 538 |
| JM1-315S-8 | 55 | 735 | 110 | 104 | 101 | 93.8 | 0.81 | 709.80 | 1.8 | 2.0 | 6.6 | 82 | 4.79 | 900 |
| JM1-315M-8 | 75 | 735 | 149 | 141 | 136 | 94.5 | 0.81 | 967.91 | 1.8 | 2.0 | 6.6 | 82 | 5.58 | 1000 |
| JM1-315L1-8 | 90 | 735 | 176 | 167 | 161 | 94.8 | 0.82 | 1161.49 | 1.8 | 2.0 | 6.6 | 82 | 6.37 | 1055 |
| JM1-315L2-8 | 110 | 735 | 214 | 203 | 196 | 95.3 | 0.82 | 1419.60 | 1.8 | 2.0 | 6.4 | 82 | 7.23 | 1118 |
| JM1-355M1-8 | 132 | 740 | 256 | 243 | 235 | 95.5 | 0.82 | 1692.08 | 1.8 | 2.0 | 6.4 | 90 | 7.9 | 2000 |
| JM1-355M2-8 | 160 | 740 | 309 | 294 | 283 | 95.8 | 0.82 | 2051.00 | 1.8 | 2.0 | 6.4 | 90 | 10.3 | 2150 |
| JM1-355L-8 | 200 | 740 | 382 | 363 | 350 | 95.8 | 0.83 | 2563.38 | 1.8 | 2.0 | 6.4 | 90 | 12.3 | 2250 |

**Ts/Tn =** ratio of locked rotor torque and rated torque
**Tmax/Tn =** ratio of break-down torque and rated torque
**Is/In =** ratio of locked rotor amps and rated amps
**In =** Full Load Current · **Is =** Locked Rotor Current · **Ts =** Locked Rotor Torque · **Tmax =** Maximum Torque · **Tn =** Full Load Torque

# HM3 80-355 IE3

## 2 pole · 3000T/M · 50 Hz

| Type | Output | Speed | In (Amps) | | | Efficiency η% | Power Factor cos. φ% | Tn | Is | Ts | Tmax | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 380V | 400V | 415V | 100% FL | 100% FL | Nm | In | Tn | Tn | kg |
| HM3 80-2 | 0,75 | 2880 | 1,7 | 1,61 | 1,56 | 80,7 | 0,83 | 2,49 | 5,5 | 1,8 | 3,5 | 20 |
| HM3 80-2 | 1,1 | 2880 | 2,43 | 2,31 | 2,22 | 82,7 | 0,83 | 3,65 | 7,5 | 2,6 | 3,5 | 21 |
| HM3 90S-2 | 1,5 | 2895 | 3,25 | 3,09 | 2,98 | 84,2 | 0,83 | 4,95 | 7,1 | 2,6 | 3,5 | 26 |
| HM3 90L-2 | 2,2 | 2895 | 4,75 | 4,34 | 4,19 | 85,9 | 0,85 | 7,26 | 7 | 2 | 3 | 29 |
| HM3 100L-2 | 3 | 2895 | 5,94 | 5,64 | 5,44 | 87,1 | 0,88 | 9,9 | 8,6 | 2 | 3,2 | 43 |
| HM3 112M-2 | 4 | 2905 | 7,83 | 7,44 | 7,17 | 88,1 | 0,88 | 13,1 | 8 | 1,8 | 2,9 | 51 |
| HM3 132S-2 | 5,5 | 2930 | 10,6 | 10,1 | 9,75 | 89,2 | 0,88 | 17,9 | 7,5 | 2,1 | 2,5 | 76 |
| HM3 132S-2 | 7,5 | 2930 | 14,4 | 13,7 | 13,2 | 90,1 | 0,88 | 24,4 | 7,3 | 2 | 3,5 | 84 |
| HM3 160M-2 | 11 | 2945 | 20,4 | 19,3 | 18,6 | 91,2 | 0,9 | 35,7 | 7,3 | 2,3 | 2,6 | 128 |
| HM3 160M-2 | 15 | 2945 | 27,2 | 25,9 | 24,9 | 91,9 | 0,91 | 48,6 | 7 | 1,9 | 2,3 | 140 |
| HM3 160L-2 | 18,5 | 2940 | 34,1 | 32,4 | 31,3 | 92,4 | 0,89 | 60,1 | 7 | 1,6 | 2,5 | 155 |
| HM3 180M-2 | 22 | 2955 | 40,1 | 38,1 | 36,7 | 92,7 | 0,9 | 71,1 | 7 | 1,6 | 2,5 | 192 |
| HM3 200L-2 | 30 | 2960 | 54,8 | 52,1 | 50,2 | 93,3 | 0,89 | 96,8 | 7 | 1,5 | 2,5 | 246 |
| HM3 200L-2 | 37 | 2960 | 65,9 | 62,6 | 60,3 | 93,7 | 0,91 | 119 | 7,3 | 1,5 | 2,5 | 267 |
| HM3 225M-2 | 45 | 2965 | 82,5 | 78,4 | 75,5 | 94 | 0,88 | 145 | 6,8 | 1,6 | 2,5 | 353 |
| HM3 250M-2 | 55 | 2970 | 99,6 | 94,6 | 91,2 | 94,3 | 0,89 | 176,9 | 7,2 | 1,6 | 2,6 | 408 |
| HM3 280S-2 | 75 | 2975 | 134 | 127 | 122 | 94,7 | 0,9 | 240,8 | 7,2 | 1,2 | 2 | 548 |
| HM3 280M-2 | 90 | 2975 | 162 | 153 | 148 | 95 | 0,89 | 288,9 | 7,4 | 1,2 | 2 | 596 |
| HM3 315S-2 | 110 | 2975 | 195 | 185 | 179 | 95,2 | 0,9 | 352,8 | 7,3 | 1,2 | 2 | 956 |
| HM3 315M-2 | 132 | 2975 | 233 | 222 | 214 | 95,4 | 0,9 | 423,3 | 7,3 | 1,3 | 2,1 | 1017 |
| HM3 315L-2 | 160 | 2980 | 283 | 268 | 259 | 95,6 | 0,9 | 512,8 | 6,8 | 1,2 | 2 | 1119 |
| HM3 315L-2 | 200 | 2980 | 349 | 331 | 319 | 95,8 | 0,91 | 640,9 | 7,8 | 1,1 | 2 | 1150 |
| HM3 355M-2 | 250 | 2980 | 431 | 409 | 394 | 95,8 | 0,92 | 800,6 | 7,9 | 1,1 | 2 | 1948 |
| HM3 355L-2 | 315 | 2980 | 543 | 516 | 497 | 95,8 | 0,92 | 1009 | 7,9 | 1,1 | 2 | 2356 |

Ts/Tn= ratio of locked rotor torque and rated torque
Tmax/Tn= ratio of brake-down torque and rated torque
Is/In= ratio of locked rotor amps and rated amps
In= Full load current Is= locked rotor current Ts= locked rotor torque Tmax= maximum torque Tn=Full load torque

# HM3 80-355 IE3

## 4 pole · 1500T/M · 50 Hz

| Type | Output | Speed | In (Amps) | | | Efficiency η% | Power Factor cos. φ% | Tn | Is | Ts | Tmax | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 380V | 400V | 415V | 100% FL | 100% FL | Nm | In | Tn | Tn | kg |
| HM3 80-4 | 0,75 | 1420 | 1,86 | 1,77 | 1,7 | 82,5 | 0,74 | 5,04 | 6 | 2,9 | 3,6 | 22 |
| HM3 90S-4 | 1,1 | 1445 | 2,68 | 2,55 | 2,46 | 84,1 | 0,74 | 7,27 | 6,5 | 2,7 | 3,8 | 27 |
| HM3 90L-4 | 1,5 | 1445 | 3,61 | 3,43 | 3,3 | 85,3 | 0,74 | 9,91 | 6,8 | 3 | 3,6 | 32 |
| HM3 100L-4 | 2,2 | 1435 | 4,93 | 4,68 | 4,52 | 86,7 | 0,78 | 14,6 | 7,2 | 2,5 | 3,5 | 44 |
| HM3 100L-4 | 3 | 1435 | 6,66 | 6,32 | 6,09 | 87,7 | 0,78 | 20 | 7,2 | 2,6 | 3,5 | 49 |
| HM3 112M-4 | 4 | 1440 | 8,56 | 8,14 | 7,84 | 88,6 | 0,8 | 26,5 | 7 | 2,3 | 3,2 | 56 |
| HM3 132S-4 | 5,5 | 1460 | 11,6 | 11,1 | 10,7 | 89,6 | 0,8 | 36 | 7,1 | 2,7 | 3,5 | 81 |
| HM3 132M-4 | 7,5 | 1460 | 15,3 | 14,6 | 14 | 90,4 | 0,82 | 49,1 | 7,1 | 2,7 | 3,8 | 91 |
| HM3 160M-4 | 11 | 1465 | 22,3 | 21,2 | 20,4 | 91,4 | 0,82 | 71,7 | 6,8 | 1,9 | 2,3 | 141 |
| HM3 160L-4 | 15 | 1465 | 30,1 | 28,6 | 27,6 | 92,1 | 0,82 | 97,8 | 6,8 | 1,8 | 2,4 | 151 |
| HM3 180M-4 | 18,5 | 1470 | 36,1 | 34,3 | 33,1 | 92,6 | 0,84 | 120,2 | 6,9 | 1,8 | 2,5 | 190 |
| HM3 180L-4 | 22 | 1470 | 42,3 | 40,2 | 38,7 | 93 | 0,85 | 142,9 | 7 | 1,8 | 2,5 | 205 |
| HM3 200L-4 | 30 | 1475 | 56,5 | 53,7 | 51,7 | 93,6 | 0,86 | 194,2 | 6,8 | 1,8 | 2,3 | 275 |
| HM3 225S-4 | 37 | 1485 | 69,5 | 66,1 | 63,7 | 93,9 | 0,86 | 237,9 | 7,1 | 1,7 | 2,3 | 315 |
| HM3 225M-4 | 45 | 1485 | 83,2 | 79,1 | 76,2 | 94,2 | 0,87 | 289,4 | 7,1 | 1,8 | 2,4 | 345 |
| HM3 250M-4 | 55 | 1485 | 101 | 96,2 | 92,7 | 94,6 | 0,87 | 353,7 | 7 | 1,8 | 2,4 | 421 |
| HM3 280S-4 | 75 | 1485 | 138 | 131 | 126 | 95 | 0,87 | 482 | 6,9 | 1,8 | 2,2 | 538 |
| HM3 280M-4 | 90 | 1485 | 165 | 157 | 151 | 95,2 | 0,87 | 578,4 | 7,2 | 1,6 | 2,1 | 638 |
| HM3 315S-4 | 110 | 1490 | 199 | 189 | 182 | 95,4 | 0,88 | 706 | 7,2 | 1,6 | 2,1 | 958 |
| HM3 315M-4 | 132 | 1490 | 238 | 226 | 218 | 95,6 | 0,88 | 847,2 | 7,2 | 1,5 | 2 | 1045 |
| HM3 315L-4 | 160 | 1490 | 288 | 274 | 264 | 95,8 | 0,88 | 1027 | 6,8 | 1,5 | 2 | 1115 |
| HM3 315L-4 | 200 | 1490 | 360 | 342 | 329 | 96 | 0,88 | 1282 | 7,2 | 1,6 | 2,1 | 1233 |
| HM3 355M-4 | 250 | 1490 | 449 | 427 | 411 | 96 | 0,88 | 1602 | 7,3 | 1,4 | 2,1 | 1744 |
| HM3 355L-4 | 315 | 1490 | 567 | 538 | 519 | 96 | 0,88 | 2019 | 7,4 | 1,4 | 2 | 1950 |

Ts/Tn= ratio of locked rotor torque and rated torque
Tmax/Tn= ratio of brake-down torque and rated torque
Is/In= ratio of locked rotor amps and rated amps
In= Full load current Is= locked rotor current Ts= locked rotor torque Tmax= maximum torque Tn=Full load torque

# HM3 80-355 IE3

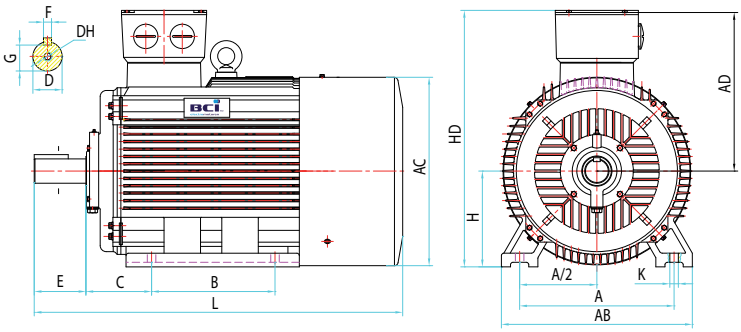
## 6 pole · 1000T/M · 50 Hz

| Type | Output | Speed | In (Amps) | | | Efficiency η% | Power Factor cos. φ% | Tn | Is | Ts | Tmax | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 380V | 400V | 415V | 100% FL | 100% FL | Nm | In | Tn | Tn | kg |
| HM3 90S-6 | 0,75 | 935 | 2,36 | 2,24 | 2,16 | 78,9 | 0,61 | 7,66 | 4,5 | 2,5 | 3,3 | 27 |
| HM3 90L-6 | 1,1 | 945 | 2,99 | 2,84 | 2,73 | 81 | 0,69 | 11,1 | 4,4 | 1,7 | 3,3 | 29 |
| HM3 100L-6 | 1,5 | 950 | 4 | 3,8 | 3,66 | 82,5 | 0,69 | 15,1 | 5 | 2,3 | 3 | 42 |
| HM3 112M-6 | 2,2 | 955 | 5,58 | 5,3 | 5,11 | 84,3 | 0,71 | 22 | 5,5 | 2,6 | 3 | 53 |
| HM3 132S-6 | 3 | 965 | 7,48 | 7,11 | 6,85 | 85,6 | 0,71 | 29,6 | 5,5 | 2 | 3,1 | 79 |
| HM3 132M-6 | 4 | 965 | 9,85 | 9,36 | 9,02 | 86,8 | 0,71 | 39,5 | 5,7 | 2,1 | 2,6 | 86 |
| HM3 132M-6 | 5,5 | 965 | 12,6 | 12 | 11,6 | 88 | 0,75 | 54,3 | 6 | 1,7 | 2,6 | 98 |
| HM3 160M-6 | 7,5 | 970 | 16,6 | 15,7 | 15,2 | 89,1 | 0,77 | 73,8 | 5,9 | 1,7 | 2,5 | 154 |
| HM3 160L-6 | 11 | 970 | 23,4 | 22,2 | 21,4 | 90,3 | 0,79 | 108,3 | 6 | 1,5 | 2,4 | 170 |
| HM3 180L-6 | 15 | 975 | 30,8 | 29,3 | 28,2 | 91,2 | 0,81 | 146,5 | 6 | 1,5 | 2,4 | 203 |
| HM3 200L-6 | 18,5 | 980 | 37,8 | 35,9 | 34,6 | 91,7 | 0,81 | 180,3 | 6,5 | 1,6 | 2,4 | 241 |
| HM3 200L-6 | 22 | 980 | 43,6 | 41,4 | 40 | 92,2 | 0,83 | 214,4 | 6 | 1,7 | 2,3 | 256 |
| HM3 225M-6 | 30 | 980 | 58,3 | 55,4 | 53,4 | 92,9 | 0,84 | 292,3 | 6,5 | 1,9 | 2,2 | 322 |
| HM3 250M-6 | 37 | 985 | 71,7 | 68,1 | 65,7 | 93,3 | 0,84 | 358,7 | 6,8 | 1,9 | 2,2 | 405 |
| HM3 280S-6 | 45 | 985 | 85,8 | 81,5 | 78,5 | 93,7 | 0,85 | 436,3 | 6,5 | 1,8 | 2,2 | 521 |
| HM3 280M-6 | 55 | 985 | 104 | 99,1 | 95,6 | 94,1 | 0,85 | 533,2 | 6 | 1,8 | 2,2 | 570 |
| HM3 315S-6 | 75 | 985 | 142 | 135 | 130 | 94,6 | 0,85 | 727,2 | 6,5 | 1,6 | 2 | 941 |
| HM3 315M-6 | 90 | 985 | 169 | 161 | 155 | 94,9 | 0,85 | 869,9 | 6,8 | 1,6 | 2 | 1021 |
| HM3 315L-6 | 110 | 985 | 204 | 194 | 187 | 95,1 | 0,86 | 1063 | 6,8 | 1,5 | 2 | 1094 |
| HM3 315L-6 | 132 | 990 | 244 | 232 | 224 | 95,4 | 0,86 | 1276 | 6,8 | 1,4 | 2,1 | 1216 |
| HM3 355M-6 | 160 | 990 | 296 | 281 | 271 | 95,6 | 0,86 | 1543 | 7,1 | 1,4 | 2 | 1591 |
| HM3 355M-6 | 200 | 990 | 360 | 342 | 330 | 95,8 | 0,88 | 1929 | 7,2 | 1,3 | 2 | 1642 |
| HM3 355L-6 | 250 | 990 | 451 | 428 | 413 | 95,8 | 0,88 | 2412 | 7,2 | 1,3 | 2 | 1744 |

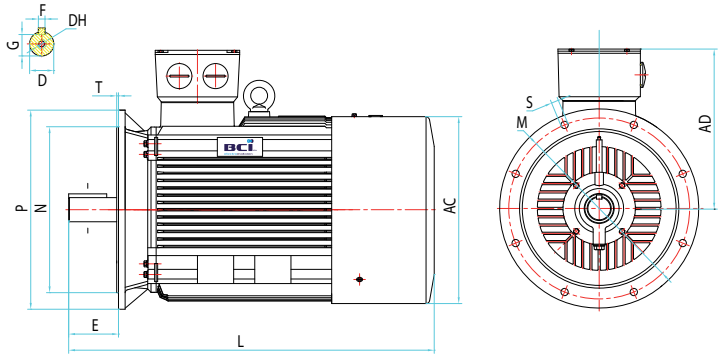
Ts/Tn= ratio of locked rotor torque and rated torque
Tmax/Tn= ratio of brake-down torque and rated torque
Is/In= ratio of locked rotor amps and rated amps
In= Full load current Is= locked rotor current Ts= locked rotor torque Tmax= maximum torque Tn=Full load torque

# JM163 -355 IE2

## B3




## B5




| | B3 | | | | | | | | | | | | | | | | B5 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FRAME | A | A/2 | B | C | D | E | F | G | H | K | AB | AC | AD | HD | L | DH | M | N | P | S | T | HF |
| JM163 | 100 | 50 | 80 | 40 | 11 | 23 | 4 | 8.5 | 63 | 7 | 135 | 130 | 70 | 180 | 230 | M4x12 | 115 | 95 | 140 | 10 | 3 | 130 |
| JM171 | 112 | 56 | 90 | 45 | 14 | 30 | 5 | 11 | 71 | 7 | 150 | 145 | 80 | 195 | 255 | M5x12 | 130 | 110 | 160 | 10 | 3.5 | 145 |
| JM180 | 125 | 62.5 | 100 | 50 | 19 | 40 | 6 | 15.5 | 80 | 10 | 165 | 175 | 145 | 220 | 295 | M6X16 | 165 | 130 | 200 | 12 | 3.5 | 185 |
| JM190S | 140 | 70 | 100 | 56 | 24 | 50 | 8 | 20 | 90 | 10 | 180 | 195 | 155 | 250 | 320 | M8x19 | 165 | 130 | 200 | 12 | 3.5 | 195 |
| JM190L | 140 | 70 | 125 | 56 | 24 | 50 | 8 | 20 | 90 | 10 | 180 | 195 | 155 | 250 | 345 | M8x19 | 165 | 130 | 200 | 12 | 3.5 | 195 |
| JM100L | 160 | 80 | 140 | 63 | 28 | 60 | 8 | 24 | 100 | 12 | 205 | 215 | 180 | 270 | 385 | M10x22 | 215 | 180 | 250 | 15 | 4 | 245 |
| JM112M | 190 | 95 | 140 | 70 | 28 | 60 | 8 | 24 | 112 | 12 | 230 | 240 | 190 | 300 | 400 | M10x22 | 215 | 180 | 250 | 15 | 4 | 265 |
| JM132S | 216 | 108 | 140 | 89 | 38 | 80 | 10 | 33 | 132 | 12 | 270 | 275 | 210 | 345 | 470 | M12x28 | 265 | 230 | 300 | 15 | 4 | 315 |
| JM132M | 216 | 108 | 178 | 89 | 38 | 80 | 10 | 33 | 132 | 12 | 270 | 275 | 210 | 345 | 510 | M12x28 | 265 | 230 | 300 | 15 | 4 | 315 |
| JM160M | 254 | 127 | 210 | 108 | 42 | 110 | 12 | 37 | 160 | 15 | 320 | 330 | 255 | 422 | 615 | M16x36 | 300 | 250 | 350 | 19 | 5 | 385 |
| JM160L | 254 | 127 | 254 | 108 | 42 | 110 | 12 | 37 | 160 | 15 | 320 | 330 | 255 | 422 | 670 | M16x36 | 300 | 250 | 350 | 19 | 5 | 385 |
| JM180M | 279 | 139.5 | 241 | 121 | 48 | 110 | 14 | 42.5 | 180 | 15 | 355 | 380 | 280 | 458 | 700 | M16x36 | 300 | 250 | 350 | 19 | 5 | 430 |
| JM180L | 279 | 139.5 | 279 | 121 | 48 | 110 | 14 | 42.5 | 180 | 15 | 355 | 380 | 280 | 458 | 740 | M16x36 | 300 | 250 | 350 | 19 | 5 | 430 |
| JM200L | 318 | 159 | 305 | 133 | 55 | 110 | 16 | 49 | 200 | 19 | 395 | 420 | 305 | 525 | 770 | M20x42 | 350 | 300 | 400 | 19 | 5 | 480 |
| JM225S | 356 | 178 | 286 | 149 | 60 | 140 | 18 | 53 | 225 | 19 | 435 | 470 | 335 | 574 | 815 | M20x42 | 400 | 350 | 450 | 19 | 5 | 535 |
| JM225M-2 | 356 | 178 | 311 | 149 | 55 | 110 | 16 | 49 | 225 | 19 | 435 | 470 | 335 | 574 | 820 | M20x42 | 400 | 350 | 450 | 19 | 5 | 535 |
| JM225M-4 | 356 | 178 | 311 | 149 | 60 | 140 | 18 | 53 | 225 | 19 | 435 | 470 | 335 | 574 | 845 | M20x42 | 400 | 350 | 450 | 19 | 5 | 535 |
| JM250M-2 | 406 | 203 | 349 | 168 | 60 | 140 | 18 | 53 | 250 | - | 490 | 510 | 370 | 635 | 910 | M20x42 | 500 | 450 | 550 | 19 | 5 | 595 |
| JM250M-4 | 406 | 203 | 349 | 168 | 65 | 140 | 18 | 58 | 250 | - | 490 | 510 | 370 | 635 | 910 | M20x42 | 500 | 450 | 550 | 19 | 5 | 595 |
| JM280S-2 | 457 | 228.5 | 368 | 190 | 65 | 140 | 18 | 58 | 280 | - | 550 | 580 | 410 | 693 | 985 | M20x42 | 500 | 450 | 550 | 19 | 5 | 650 |
| JM280S-4 | 457 | 228.5 | 368 | 190 | 75 | 140 | 20 | 67.5 | 280 | - | 550 | 580 | 410 | 693 | 985 | M20x42 | 500 | 450 | 550 | 19 | 5 | 650 |
| JM280M-2 | 457 | 228.5 | 419 | 190 | 65 | 140 | 18 | 58 | 280 | - | 550 | 580 | 410 | 693 | 1035 | M20x42 | 500 | 450 | 550 | 19 | 5 | 650 |
| JM280M-4 | 457 | 228.5 | 419 | 190 | 75 | 140 | 20 | 67.5 | 280 | - | 550 | 580 | 410 | 693 | 1035 | M20x42 | 500 | 450 | 550 | 19 | 5 | 650 |
| JM315S-2 | 508 | 254 | 406 | 216 | 65 | 140 | 18 | 58 | 315 | - | 635 | 645 | 530 | 810 | 1160 | M20x42 | 600 | 550 | 660 | 24 | 6 | - |
| JM315S-4 | 508 | 254 | 406 | 216 | 80 | 170 | 22 | 71 | 315 | - | 635 | 645 | 530 | 810 | 1270 | M20x42 | 600 | 550 | 660 | 24 | 6 | - |
| JM315M-2 | 508 | 254 | 457 | 216 | 65 | 140 | 18 | 58 | 315 | - | 635 | 645 | 530 | 810 | 1190 | M20x42 | 600 | 550 | 660 | 24 | 6 | - |
| JM315M-4 | 508 | 254 | 457 | 216 | 80 | 170 | 22 | 71 | 315 | - | 635 | 645 | 530 | 810 | 1300 | M20x42 | 600 | 550 | 660 | 24 | 6 | - |
| JM315L-2 | 508 | 254 | 508 | 216 | 65 | 140 | 18 | 58 | 315 | - | 635 | 645 | 530 | 810 | 1190 | M20x42 | 600 | 550 | 660 | 24 | 6 | - |
| JM315L-4 | 508 | 254 | 508 | 216 | 80 | 170 | 22 | 71 | 315 | - | 635 | 645 | 530 | 810 | 1300 | M20x42 | 600 | 550 | 660 | 24 | 6 | - |
| JM355M-2 | 610 | 305 | 560 | 254 | 75 | 140 | 20 | 67.5 | 355 | - | 730 | 710 | 655 | 1010 | 1500 | M20x42 | 740 | 680 | 800 | 24 | 6 | - |
| JM355M-4 | 610 | 305 | 560 | 254 | 100 | 210 | 25 | 86 | 355 | - | 730 | 710 | 655 | 1010 | 1530 | M20x42 | 740 | 680 | 800 | 24 | 6 | - |
| JM355L-2 | 610 | 305 | 560 | 254 | 75 | 140 | 20 | 67.5 | 355 | - | 730 | 710 | 655 | 1010 | 1500 | M20x42 | 740 | 680 | 800 | 24 | 6 | - |
| JM355L-4 | 610 | 305 | 630 | 254 | 100 | 210 | 25 | 86 | 355 | - | 730 | 710 | 655 | 1010 | 1530 | M20x42 | 740 | 680 | 800 | 24 | 6 | - |

# JM1 63 -355 IE2

JM1132-B5

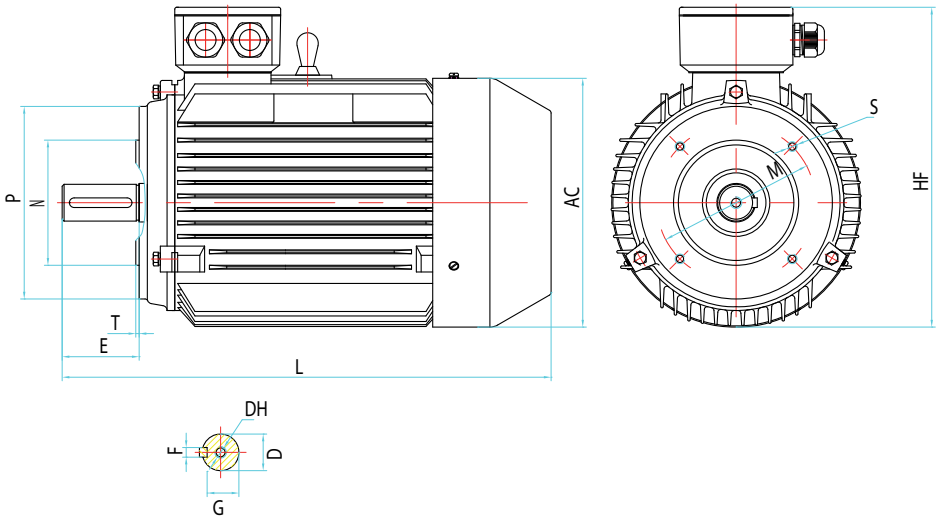
JM1160

JM1225

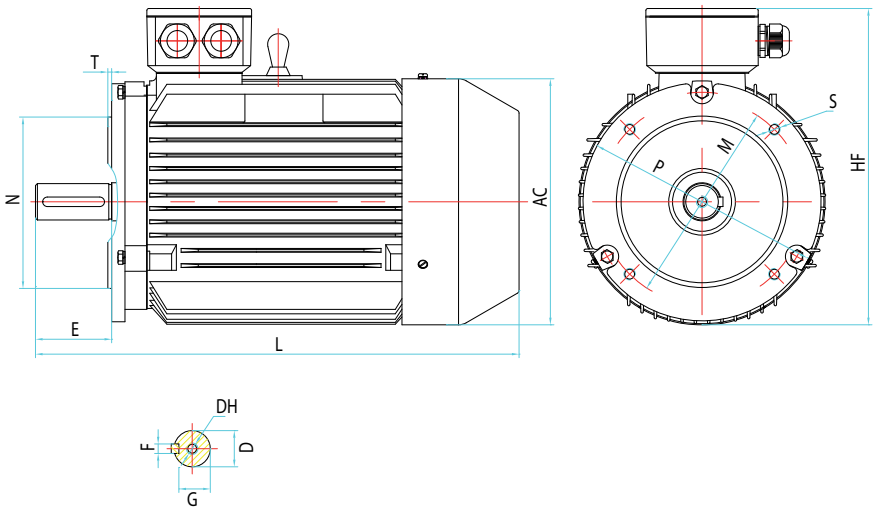
JM1280

JM1355

## B14A




## B14B




| | | | | | | | | | | | | | | | | | B14A | | | | | | B14B | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FRAME | A | A/2 | B | C | D | E | F | G | H | K | AB | AC | AD | HD | L | DH | M | N | P | S | T | HF | M | N | P | S | T |
| **JM 63** | 110 | 50 | 80 | 40 | 11 | 23 | 4 | 8.5 | 63 | 7 | 135 | 130 | 70 | 180 | 230 | M4x12 | 75 | 60 | 90 | M5 | 2,5 | 130 | 100 | 80 | 120 | M6 | 2,5 |
| **JM 71** | 112 | 56 | 90 | 45 | 14 | 30 | 5 | 11 | 71 | 7 | 150 | 155 | 80 | 195 | 255 | M5x12 | 85 | 70 | 105 | M6 | 2,5 | 145 | 115 | 95 | 140 | M8 | 3 |
| **JM 80** | 125 | 62.5 | 100 | 50 | 19 | 40 | 6 | 15.5 | 80 | 10 | 165 | 165 | 145 | 214 | 295 | M6x16 | 100 | 80 | 120 | M6 | 3 | 105 | 130 | 110 | 160 | M8 | 3,5 |
| **JM 90S** | 140 | 70 | 100 | 56 | 24 | 50 | 8 | 20 | 90 | 10 | 180 | 195 | 155 | 250 | 320 | M8x19 | 115 | 95 | 140 | M8 | 3 | 195 | 130 | 110 | 160 | M8 | 3,5 |
| **JM 90L** | 140 | 70 | 125 | 56 | 24 | 50 | 8 | 20 | 90 | 10 | 180 | 195 | 155 | 250 | 345 | M8x19 | 115 | 95 | 140 | M8 | 3 | 195 | 130 | 110 | 160 | M8 | 3,5 |
| **JM100L** | 160 | 80 | 140 | 63 | 28 | 60 | 8 | 24 | 100 | 12 | 205 | 215 | 180 | 270 | 385 | M10x22 | 130 | 110 | 160 | M8 | 3,5 | 245 | 165 | 130 | 200 | M10 | 3,5 |
| **JM112 M** | 190 | 95 | 140 | 70 | 28 | 60 | 8 | 24 | 112 | 12 | 230 | 240 | 190 | 300 | 400 | M10x22 | 130 | 110 | 160 | M8 | 3,5 | 365 | 165 | 130 | 200 | M10 | 3,5 |
| **JM132S** | 216 | 108 | 140 | 89 | 38 | 80 | 10 | 33 | 132 | 12 | 270 | 275 | 210 | 345 | 470 | M12x28 | 165 | 130 | 200 | M10 | 3,5 | - | | | | | |
| **JM132 M** | 216 | 108 | 178 | 89 | 38 | 80 | 10 | 33 | 132 | 12 | 270 | 275 | 210 | 345 | 510 | M12x28 | 165 | 130 | 200 | M10 | 3,5 | - | | | | | |

# JM 400 -450

## 2 pole · 3000T/M · 50 Hz

| Type | Output | Speed | In (Amps) | | | Efficiency η% | Power Factor cos. φ% | Tn | Ts | Tmax | Is | Noise Level | Moment of intertia | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 380V | 400V | 415V | 100% FL | 100% FL | Nm | Tn | Tn | In | dB(A) | dB(A) | kg |
| JM400M-2 | 400 | 2982 | 689 | 657 | 637 | 95.9 | 0.92 | 1281 | 1.23 | 2.53 | 5.80 | 101 | 12.52 | 2604 |
| JM400M-2 | 450 | 2982 | 775 | 737 | 713 | 95.9 | 0.92 | 1440 | 1.64 | 2.03 | 7.11 | 101 | 13.26 | 3035 |
| JM400L-2 | 500 | 2982 | 853 | 814 | 791 | 96.0 | 0.92 | 1681 | 1.47 | 2.72 | 6.42 | 102 | 14.21 | 3122 |
| JM400L-2V | 560 | 2982 | 952 | 908 | 879 | 96.0 | 0.92 | 1793 | 1.31 | 2.43 | 5.74 | 102 | 14.95 | 3088 |
| JM400L-2V | 630 | 2892 | 1071 | 1019 | 985 | 96.1 | 0.93 | 2016 | 1.83 | 2.98 | 7.27 | 103 | 15.67 | 3987 |
| JM450M-2 | 560 | 2986 | 945 | 900 | 873 | 96.3 | 0.93 | 1790 | 1.05 | 2.9 | 6.14 | 112 | 20.07 | 3340 |
| JM450M-2 | 630 | 2984 | 1063 | 1012 | 983 | 96.3 | 0.93 | 2016 | 0.98 | 2.57 | 5.46 | 112 | 20.07 | 3340 |
| JM450L-2 | 710 | 2988 | 1195 | 1138 | 1105 | 96.3 | 0.94 | 2270 | 1.38 | 3.42 | 7.29 | 112 | 27.10 | 4020 |
| JM450L-2 | 800 | 2986 | 1340 | 1276 | 1239 | 96.5 | 0.94 | 2555 | 1.23 | 3.05 | 6.59 | 112 | 27.10 | 4120 |
| JM450L-2 | 900 | 2985 | 1507 | 1435 | 1393 | 96.6 | 0.94 | 2874 | 1.09 | 2.71 | 5.86 | 112 | 27.10 | 4120 |

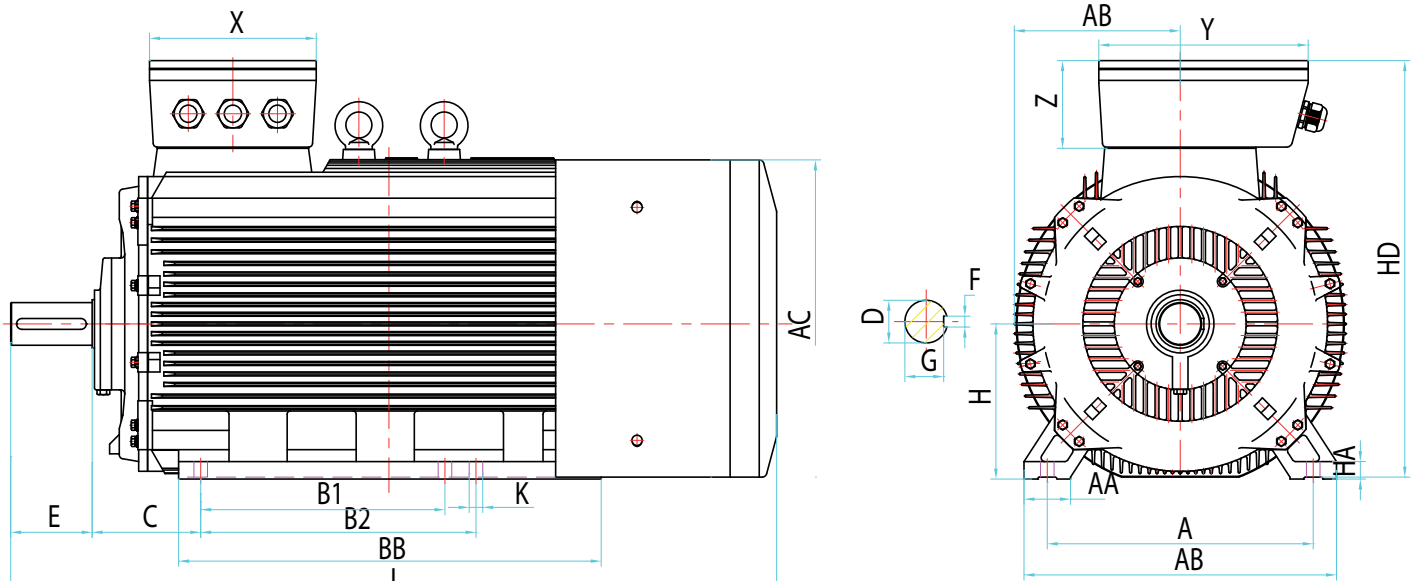
## 4 pole · 1500T/M · 50 Hz

| Type | Output | Speed | In (Amps) | | | Efficiency η% | Power Factor cos. φ% | Tn | Ts | Tmax | Is | Noise Level | Moment of intertia | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 380V | 400V | 415V | 100% FL | 100% FL | Nm | Tn | Tn | In | dB(A) | dB(A) | kg |
| JM400M-4 | 400 | 1492 | 700 | 666 | 645 | 96.0 | 0.90 | 2510 | 1.92 | 2.75 | 6.61 | 111 | 14.95 | 2786 |
| JM400M-4 | 450 | 1492 | 785 | 750 | 726 | 96.1 | 0.90 | 2880 | 2.03 | 2.81 | 6.84 | 111 | 15.63 | 3122 |
| JM400L-4 | 500 | 1492 | 869 | 831 | 807 | 96.4 | 0.90 | 3203 | 1.83 | 2.52 | 6.19 | 111 | 18.41 | 3132 |
| JM400L-4V | 560 | 1492 | 971 | 924 | 893 | 96.4 | 0.90 | 3587 | 2.02 | 2.67 | 6.64 | 112 | 19.62 | 3548 |
| JM400L-4V | 630 | 1492 | 1092 | 1043 | 1011 | 96.4 | 0.91 | 4035 | 1.75 | 2.34 | 5.81 | 112 | 21.33 | 3589 |
| JM450M-4 | 560 | 1492 | 967 | 921 | 894 | 96.3 | 0.91 | 3570 | 1.29 | 2.71 | 6.43 | 111 | 35.10 | 3584 |
| JM450M-4 | 630 | 1492 | 1088 | 1036 | 1006 | 96.4 | 0.91 | 4020 | 1.47 | 2.9 | 6.94 | 111 | 41.00 | 4055 |
| JM450L-4 | 710 | 1492 | 1222 | 1164 | 1130 | 96.4 | 0.91 | 4530 | 1.30 | 2.57 | 6.17 | 111 | 41.00 | 4055 |
| JM450L-4 | 800 | 1491 | 1373 | 1308 | 1270 | 96.6 | 0.93 | 5100 | 1.53 | 2.28 | 6.91 | 111 | 49.50 | 4724 |
| JM450L-4 | 900 | 1491 | 1571 | 1496 | 1452 | 96.6 | 0.92 | 5740 | 1.75 | 2.34 | 5.81 | 111 | 49.50 | 4732 |

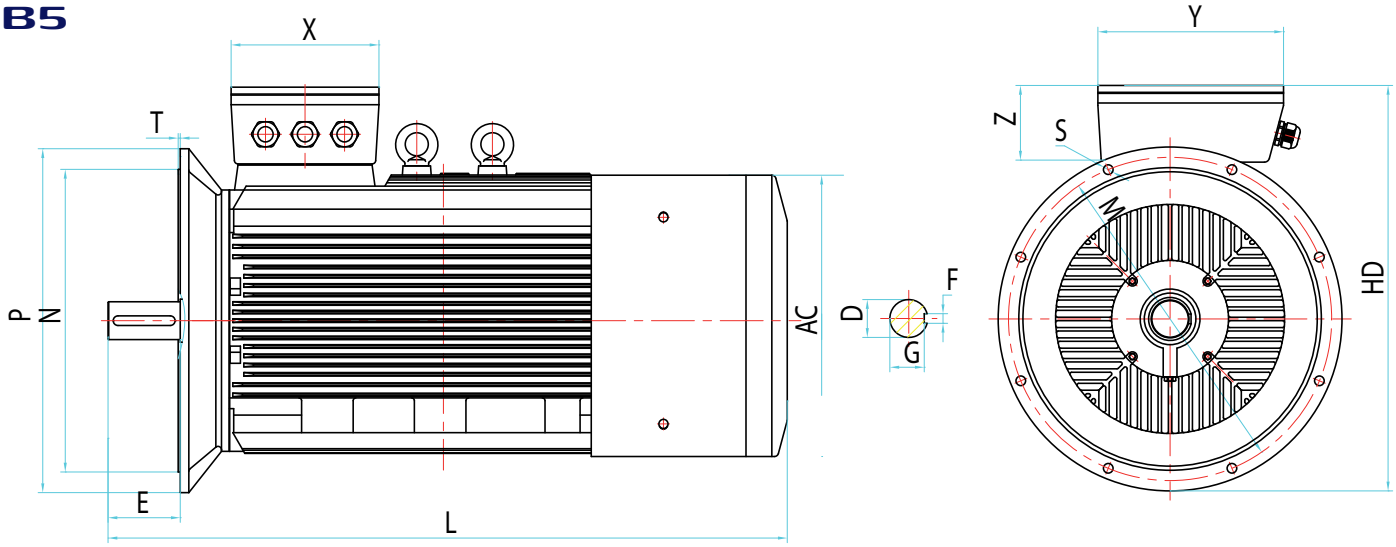
## 6 pole · 1000T/M · 50 Hz

| Type | Output | Speed | In (Amps) | | | Efficiency η% | Power Factor cos. φ% | Tn | Ts | Tmax | Is | Noise Level | Moment of intertia | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW | r/min | 380V | 400V | 415V | 100% FL | 100% FL | Nm | Tn | Tn | In | dB(A) | dB(A) | kg |
| JM400M-6 | 315 | 994 | 571 | 552 | 535 | 95.8 | 0.86 | 3026 | 1.83 | 2.34 | 5.91 | 108 | 18.21 | 3003 |
| JM400M-6 | 355 | 994 | 647 | 624 | 599 | 95.9 | 0.86 | 3411 | 1.86 | 2.31 | 5.89 | 108 | 19.32 | 3410 |
| JM400L-6 | 400 | 994 | 730 | 701 | 685 | 95.9 | 0.86 | 3843 | 2.08 | 2.48 | 6.38 | 108 | 21.86 | 3558 |
| JM400L-6 | 450 | 994 | 819 | 783 | 766 | 95.9 | 0.86 | 4323 | 2.07 | 2.43 | 6.31 | 111 | 22.31 | 3841 |
| JM400L-6V | 500 | 994 | 908 | 871 | 851 | 96.1 | 0.86 | 4804 | 1.86 | 2.19 | 5.72 | 111 | 23.52 | 3866 |
| JM400L-6V | 560 | 994 | | 958 | 935 | 96.1 | 0.86 | 5380 | 1.95 | 2.22 | 5.88 | 111 | 24.46 | 4140 |
| JM450M-6 | 500 | 994 | 918 | 874 | 849 | 96.0 | 0.86 | 4785 | 1.61 | 2.34 | 5.99 | 108 | 49.30 | 3886 |
| JM450M-6 | 560 | 994 | 1027 | 978 | 950 | 96.1 | 0.86 | 5355 | 1.64 | 2.32 | 5.89 | 108 | 54.10 | 4203 |
| JM450L-6 | 630 | 994 | 1152 | 1097 | 1065 | 96.1 | 0.86 | 6025 | 1.65 | 2.3 | 5.99 | 108 | 60.60 | 4620 |
| JM450L-6 | 710 | 994 | 1297 | 1235 | 1199 | 95.9 | 0.86 | 6790 | 1.71 | 2.33 | 6.13 | 111 | 67.90 | 5080 |
| JM450L-6 | 800 | 995 | 1450 | 1381 | 1341 | 96.5 | 0.87 | 7680 | 1.52 | 2.06 | 5.47 | 111 | 67.90 | 5080 |

## B3




## B5




| FRAME | A | AA | AB | AC | B1 | B2 | BB | C | D | DB | E | F | G | GD | H | HA | HD | K | L | AD | Eyebolt IPE | X | Y | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | ø | | | | | | | | | ø | | | max 2x ø | | | |
| JM400M/L-2 | 686 | 120 | 806 | 860 | 630 | 710 | 1090 | 280 | 85 | M24 | 170 | 22 | 76 | 14 | 400 | 52 | 1080 | 36 | 1820 | 400 | 2xM36 | 100mm | 430 | 485 | 225 |
| JM400M/L-4/6 | 686 | 120 | 806 | 860 | 630 | 710 | 1090 | 280 | 110 | M24 | 210 | 28 | 100 | 16 | 400 | 52 | 1080 | 36 | 1881 | 400 | 2xM36 | 100mm | 430 | 485 | 225 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| JM450M/L-2 | 800 | 150 | 950 | 950 | 900 | 1000 | 1200 | 250 | 90 | M24 | 170 | 25 | 81 | 14 | 450 | 62 | 1400 | 36 | 2050 | 480 | 2xM42 | 130mm | 460 | 530 | 275 |
| JM450M/L-4/6 | 800 | 150 | 950 | 950 | 900 | 1000 | 1200 | 250 | 130 | M24 | 250 | 32 | 119 | 18 | 450 | 62 | 1400 | 36 | 2200 | 480 | 2xM42 | 130mm | 460 | 530 | 275 |

# JLEJ 63 -160

## 2 pole · 3000T/M · 50 Hz

| Type | Kw | TM | In | eff | cos | Tn | Ts | Tmax | Is | Inertia (J) | Brake full load moment | Brake max no load time | Brake power | Noise | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | % | Phi | Nm | Tn | Tn | In | In | Nm | S | W | dB(A) | kg |
| JLEJ631-2 | 0.18 | 2800 | 0.5 | 66.0 | 0.80 | 0.61 | 2.2 | 2.3 | 5.5 | 0.00055 | 4.0 | 0.15 | 25 | 58 | 7.8 |
| JLEJ632-2 | 0.25 | 2800 | 0.7 | 69.0 | 0.81 | 0.96 | 2.2 | 2.3 | 5.5 | 0.00060 | 4.0 | 0.15 | 25 | 58 | 8.1 |
| JLEJ711-2 | 0.37 | 2800 | 1.0 | 71.0 | 0.81 | 1.26 | 2.2 | 2.3 | 6.1 | 0.00075 | 4.0 | 0.15 | 25 | 61 | 9.0 |
| JLEJ712-2 | 0.55 | 2800 | 1.4 | 74.0 | 0.82 | 1.88 | 2.2 | 2.3 | 6.1 | 0.00090 | 4.0 | 0.15 | 25 | 61 | 9.5 |
| JLEJ801-2 | 0. 75 | 2825 | 1.8 | 76.0 | 0.83 | 2.54 | 2.2 | 2.3 | 6. 1 | 0.00120 | 7.5 | 0.20 | 50 | 64 | 12.7 |
| JLEJ802-2 | 1.1 | 2825 | 2.5 | 78.0 | 0.84 | 3.72 | 2.2 | 2.3 | 7.0 | 0.00140 | 7.5 | 0.20 | 50 | 64 | 13.5 |
| JLEJ90S-2 | 1.5 | 2840 | 3.4 | 79.2 | 0.84 | 5.04 | 2.2 | 2.3 | 7.0 | 0.00290 | 15.0 | 0.25 | 60 | 69 | 16.3 |
| JLEJ90L-2 | 2.2 | 2840 | 4.8 | 81.5 | 0.85 | 7.40 | 2.2 | 2.3 | 7.0 | 0.00550 | 15.0 | 0.25 | 60 | 69 | 18.0 |
| JLEJ100L-2 | 3 | 2880 | 6.2 | 83.5 | 0.88 | 9.95 | 2.2 | 2.3 | 7.5 | 0.01090 | 30.0 | 0.30 | 80 | 73 | 27.0 |
| JLEJ112M-2 | 4 | 2890 | 8.1 | 85.5 | 0.88 | 13.22 | 2.2 | 2.3 | 7.5 | 0.01260 | 40.0 | 0.35 | 110 | 74 | 37.0 |
| JLEJ132S1-2 | 5.5 | 2900 | 10.8 | 86.5 | 0.89 | 18.11 | 2.2 | 2.3 | 7.5 | 0.03770 | 75.0 | 0.40 | 130 | 77 | 49.1 |
| JLEJ132S2-2 | 7.5 | 2900 | 14.7 | 87.1 | 0.89 | 24.70 | 2.2 | 2.3 | 7.5 | 0.04990 | 75.0 | 0.40 | 130 | 77 | 54.5 |
| JLEJ160M1-2 | 11 | 2930 | 20.9 | 88.7 | 0.90 | 35.85 | 2.2 | 2.3 | 7.5 | 0.05500 | 150.0 | 0.50 | 150 | 83 | 84.2 |
| JLEJ160M2-2 | 15 | 2930 | 28.3 | 89.5 | 0.90 | 48.89 | 2. 2 | 2.3 | 7.5 | 0.07500 | 150.0 | 0.50 | 150 | 83 | 93. 0 |
| JLEJ160L-2 | 18.5 | 2930 | 34.1 | 90.5 | 0.91 | 60.30 | 2.2 | 2.3 | 7.5 | 0.12400 | 150.0 | 0.50 | 150 | 83 | 103.5 |

## 4 pole · 1500T/M · 50 Hz

| Type | Kw | TM | In | eff | cos | Tn | Ts | Tmax | Is | Inertia (J) | Brake full load moment | Brake max no load time | Brake power | Noise | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | % | Phi | Nm | Tn | Tn | In | In | Nm | S | W | dB(A) | kg |
| JLEJ631-4 | 0. 12 | 1360 | 0.4 | 59.0 | 0.72 | 0.84 | | 2.2 | 4.4 | 0.00040 | 4.0 | 0.15 | 25 | 48 | 7.8 |
| JLEJ632-4 | 0.18 | 1360 | 0.6 | 62.0 | 0.73 | 1.26 | 2. 1 | 2.2 | 4.4 | 0.00055 | 4.0 | 0.15 | 25 | 48 | 8. 1 |
| JLEJ711-4 | 0.25 | 1380 | 0.8 | 67.3 | 0.74 | 1.73 | 2.1 | 2.2 | 5.2 | 0.00060 | 4.0 | 0.15 | 25 | 53 | 9.0 |
| JLEJ712-4 | 0.37 | 1380 | 1.1 | 70.0 | 0.75 | 2.56 | 2.1 | 2.2 | 5.2 | 0.00075 | 4.0 | 0.15 | 25 | 53 | 9.5 |
| JLEJ801-4 | 0.55 | 1400 | 1.5 | 71.8 | 0.75 | 3.75 | 2.3 | 2.3 | 5.2 | 0.00090 | 7.5 | 0.20 | 50 | 58 | 13.4 |
| JLEJ802-4 | 0.75 | 1400 | 2.0 | 73.5 | 0.77 | 5.11 | 2.3 | 2.3 | 6.0 | 0.00120 | 7.5 | 0.20 | 50 | 58 | 14.8 |
| JLEJ90S-4 | 1.1 | 1400 | 2.8 | 76.5 | 0.78 | 7.50 | 2.3 | 2.3 | 6.0 | 0.00140 | 15.0 | 0.25 | 60 | 59 | 16.5 |
| JLEJ90L-4 | 1.5 | 1400 | 3.7 | 78.6 | 0.79 | 10.23 | 2.3 | 2.3 | 6.0 | 0.00290 | 15.0 | 0.25 | 60 | 59 | 18.3 |
| JLEJ100LI-4 | 2.2 | 1420 | 5.0 | 82.0 | 0.82 | 14.80 | 2.3 | 2.3 | 7.0 | 0.00550 | 30.0 | 0.30 | 80 | 61 | 26.8 |
| JLEJ100L2-4 | 3 | 1420 | 6.6 | 83.0 | 0.83 | 20.18 | 2.3 | 2.3 | 7.0 | 0.01090 | 30.0 | 0.30 | 80 | 61 | 29.5 |
| JLEJ112M-4 | 4 | 1440 | 8.6 | 85.1 | 0.83 | 26.53 | 2.3 | 2.3 | 7.0 | 0.01260 | 40.0 | 0.35 | 110 | 62 | 37.5 |
| JLEJ132S-4 | 5.5 | 1440 | 11.5 | 86.6 | 0.84 | 36.48 | 2.3 | 2.3 | 7.0 | 0.03770 | 75.0 | 0.40 | 130 | 69 | 51.5 |
| JLEJ132M-4 | 7.5 | 1440 | 15.3 | 87.6 | 0.85 | 49.74 | 2.3 | 2.3 | 7.0 | 0.04990 | 75.0 | 0.40 | 130 | 69 | 57.5 |
| JLEJ160M-4 | 11 | 1460 | 22.2 | 88.5 | 0.85 | 71.59 | 2.3 | 2.3 | 7.0 | 0.05500 | 150 | 0.50 | 150 | 72 | 87.5 |
| JLEJ160L-4 | 15 | 1460 | 29.8 | 89.9 | 0.85 | 98.12 | 2.3 | 2.3 | 7. 0 | 0.07500 | 150 | 0.50 | 150 | 73 | 100.6 |

**In** = Full Load Current · **Is** = Locked Rotor Current · **Ts** = Locked Rotor Torque · **T-max** = Maximum Torque · **Tn** = Full Load Torque

# JLEJ 80 –160

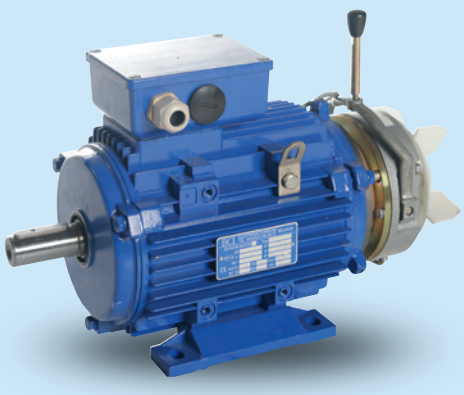
## 6 pole · 1000T/M · 50 Hz

| Type | Kw | TM | In | eff | cos | Tn | Ts | Tmax | Is | Inertia (J) | Brake full load moment | Brake max no load time | Brake power | Noise | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | % | Phi | Nm | Tn | Tn | In | In | Nm | S | W | dB(A) | kg |
| JLEJ80I-6 | 0.37 | 900 | 1.3 | 63.0 | 0.70 | 3.93 | 1.9 | 2.0 | 4.7 | 0.00060 | 7.5 | 0.20 | 50 | 51 | 12.9 |
| JLEJ802-6 | 0.55 | 900 | 1.8 | 66.0 | 0.72 | 5.84 | 1.9 | 2.1 | 4.7 | 0.00075 | 7.5 | 0.20 | 50 | 51 | 14.4 |
| JLEJ90S-6 | 0.75 | 910 | 2.3 | 70.0 | 0.72 | 7.87 | 2.0 | 2.1 | 5.5 | 0.00090 | 15.0 | 0.25 | 60 | 54 | 16.6 |
| JLEJ90L-6 | 1.1 | 910 | 3.1 | 73.3 | 0.73 | 11.54 | 2.0 | 2.1 | 5.5 | 0.00120 | 15.0 | 0.25 | 60 | 54 | 18.2 |
| JLEJ100L-6 | 1.5 | 940 | 3.9 | 77.5 | 0.76 | 15.24 | 2.0 | 2.1 | 5.5 | 0.00140 | 30.0 | 0.30 | 80 | 58 | 29.0 |
| JLEJ112M-6 | 2.2 | 940 | 5.5 | 80.0 | 0.76 | 22.35 | 2.1 | 2.1 | 6.5 | 0.00290 | 40.0 | 0.35 | 110 | 62 | 36.2 |
| JLEJ132S-6 | 3 | 960 | 7.2 | 82.1 | 0.77 | 29.84 | 2.1 | 2.1 | 6.5 | 0.00550 | 75.0 | 0.40 | 130 | 66 | 50.2 |
| JLEJ132ML-6 | 4 | 960 | 9.5 | 83.0 | 0.77 | 39.79 | 2.1 | 2.1 | 6.5 | 0.01090 | 75.0 | 0.40 | 130 | 66 | 53.0 |
| JLEJ132M2-6 | 5.5 | 960 | 12.5 | 85.4 | 0.78 | 54.71 | 2.1 | 2.1 | 6.5 | 0.01260 | 75.0 | 0.40 | 150 | 66 | 57.2 |
| JLEJ160M-6 | 7.5 | 970 | 16.8 | 87.0 | 0.78 | 73.84 | 2.1 | 2.1 | 6.5 | 0.03770 | 150.0 | 0.50 | 150 | 70 | 85.6 |
| JLEJ160L-6 | 11 | 970 | 23.7 | 88.3 | 0.80 | 108.30 | 2.1 | 2.1 | 6.5 | 0.04990 | 150.0 | 0.50 | 150 | 70 | 90.0 |

# JLEJ 100 –160

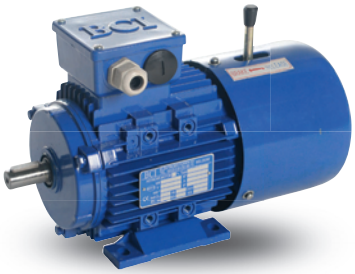
## 8 pole · 750T/M · 50 Hz

| Type | Kw | TM | In | eff | cos | Tn | Ts | Tmax | Is | Inertia (J) | Brake full load moment | Brake max no load time | Brake power | Noise | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | % | Phi | Nm | Tn | Tn | In | In | Nm | S | W | dB(A) | kg |
| JLEJ100L1-8 | 0.75 | 700 | 2.4 | 72.1 | 0.67 | 10.23 | 1.8 | 2.0 | 4.0 | 0.0009 | 30 | 0.30 | 80 | 56 | 29.0 |
| JLEJ100L2-8 | 1.1 | 700 | 3.3 | 74.0 | 0.69 | 15.00 | 1.8 | 2.0 | 5.0 | 0.0012 | 30 | 0.30 | 80 | 56 | 31.1 |
| JLEJ112M-8 | 1.5 | 700 | 4.3 | 76.0 | 0.69 | 20.46 | 1.8 | 2.0 | 5.0 | 0.0014 | 40 | 0.35 | 110 | 59 | 38.2 |
| JLEJ132S-8 | 2.2 | 710 | 5.9 | 79.0 | 0.72 | 29.59 | 1.8 | 2.0 | 6.0 | 0.0029 | 75 | 0.40 | 130 | 61 | 50.3 |
| JLEJ132M-8 | 3 | 710 | 7.7 | 79.9 | 0.74 | 40.35 | 1.8 | 2.0 | 6.0 | 0.0055 | 75 | 0.40 | 130 | 61 | 55.0 |
| JLEJ160ML-8 | 4 | 720 | 10.0 | 82.0 | 0.74 | 53.06 | 1.9 | 2.0 | 6.0 | 0.0109 | 150 | 0.50 | 150 | 65 | 83.5 |
| JLEJ160M2-8 | 5.5 | 720 | 13.3 | 84.0 | 0.75 | 72.59 | 2.0 | 2.0 | 6.0 | 0.0126 | 150 | 0.50 | 150 | 65 | 91.0 |
| JLEJ160L-8 | 7.5 | 720 | 17.6 | 86.1 | 0.75 | 99.50 | 2.0 | 2.0 | 6.0 | 0.0377 | 150 | 0.50 | 150 | 65 | 100.2 |



JLEJ 100

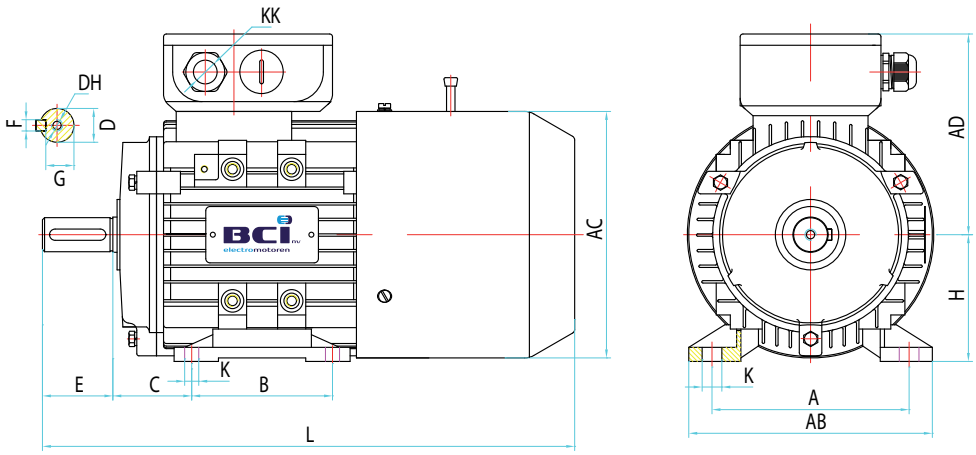
# JLEJ 63 -160



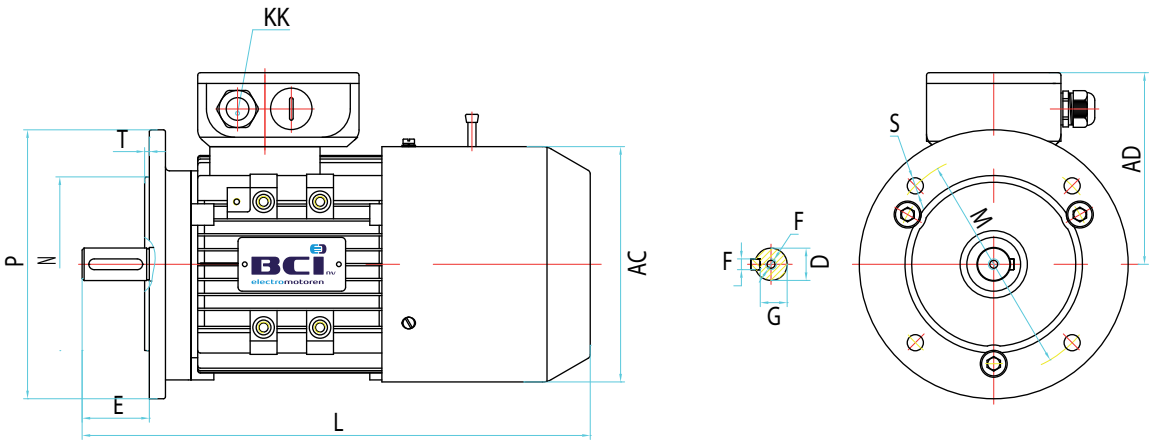
JLEJ 80

JLEJ 100

## B3




## B5



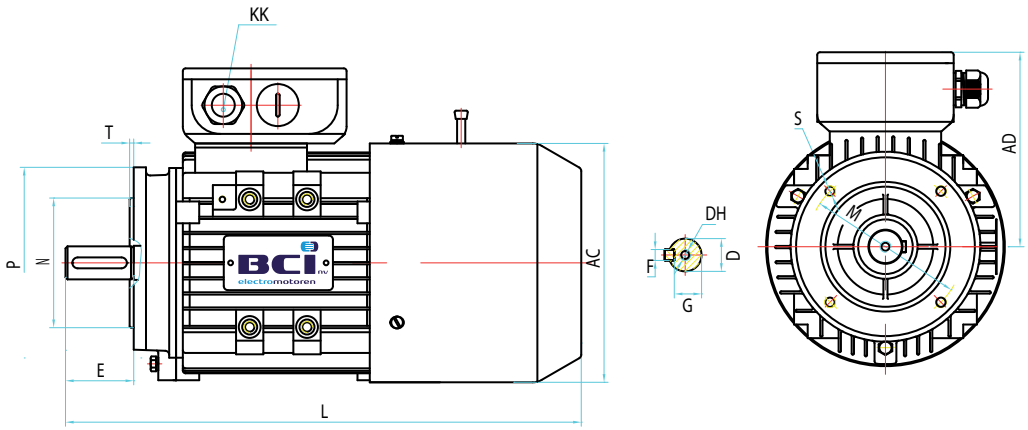

| | B3 | | | | | | | | | | | | | | | B5 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FRAME | A | AB | AC | AD | B | C | D | DH | E | F | G | H | K | KK Metric | L | M | N | P | S | T |
| JLEJ63 | 100 | 135 | 130 | 111 | 80 | 40 | 11 | M4X12 | 23 | 4 | 8.5 | 63 | 7 | 2-M20X1.5 | 240 | 115 | 95 | 140 | 10 | 3 |
| JLEJ71 | 112 | 150 | 145 | 118 | 90 | 45 | 14 | M5X12 | 30 | 5 | 11 | 71 | 7 | 2-M20X1.5 | 270 | 130 | 110 | 160 | 10 | 3.5 |
| JLEJ80 | 125 | 165 | 175 | 134 | 100 | 50 | 19 | M6X16 | 40 | 6 | 15.5 | 80 | 10 | 2-M25X1.5 | 375 | 165 | 130 | 200 | 12 | 3.5 |
| JLEJ90S | 140 | 180 | 195 | 140 | 100 | 56 | 24 | M8X19 | 50 | 8 | 20 | 90 | 10 | 2-M25X1.5 | 400 | 165 | 130 | 200 | 12 | 3.5 |
| JLEJ90L | 140 | 180 | 195 | 140 | 125 | 56 | 24 | M8X19 | 50 | 8 | 20 | 90 | 10 | 2-M25X1.5 | 426 | 165 | 130 | 200 | 12 | 3.5 |
| JLEJ100L | 160 | 205 | 215 | 160 | 140 | 63 | 28 | M10X22 | 60 | 8 | 24 | 100 | 12 | 2-M32X1.5 | 465 | 215 | 180 | 250 | 15 | 4 |
| JLEJ112M | 190 | 230 | 240 | 178 | 140 | 70 | 28 | M10X22 | 60 | 8 | 24 | 112 | 12 | 2-M32X1.5 | 495 | 215 | 180 | 250 | 15 | 4 |
| JLEJ132S | 216 | 270 | 275 | 206 | 140 | 89 | 38 | M12X28 | 80 | 10 | 33 | 132 | 12 | 2-M32X1.5 | 570 | 265 | 230 | 300 | 15 | 4 |
| JLEJ132M | 216 | 270 | 275 | 206 | 178 | 89 | 38 | M12X28 | 80 | 10 | 33 | 132 | 12 | 2-M32X1.5 | 610 | 265 | 230 | 300 | 15 | 4 |
| JLEJ160M | 254 | 320 | 330 | 255 | 210 | 108 | 42 | M16X36 | 110 | 12 | 37 | 160 | 15 | 2-M40X1.5 | 715 | 300 | 250 | 350 | 19 | 5 |
| JLEJ160L | 254 | 320 | 330 | 255 | 254 | 108 | 42 | M16X36 | 110 | 12 | 37 | 160 | 15 | 2-M40X1.5 | 760 | 300 | 250 | 350 | 19 | 5 |

# JLEJ 63 -160

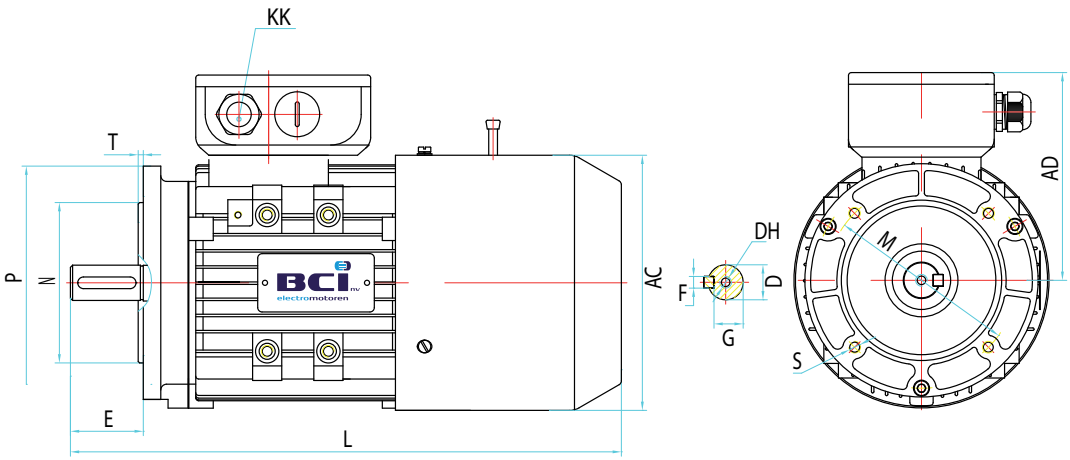
JLEJ 80

JLEJ 100

## B14A




## B14B




| | | | | | | | | | | B14A | | | | | B14B | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FRAME | AC | AD | D | DH | E | F | G | KK Metric | L | M | N | P | S | T | M | N | P | S | T |
| JLEJ63 | 130 | 111 | 11 | M4X12 | 23 | 4 | 8.5 | 2-M20X1.5 | 240 | 75 | 60 | 90 | M5 | 2.5 | 85 | 70 | 105 | M6 | 2.5 |
| JLEJ71 | 145 | 118 | 14 | M5X12 | 30 | 5 | 11 | 2-M20X1.5 | 270 | 85 | 70 | 105 | M6 | 2.5 | 115 | 95 | 140 | M8 | 3 |
| JLEJ80 | 175 | 134 | 19 | M6X16 | 40 | 6 | 15.5 | 2-M25X1.5 | 375 | 100 | 80 | 120 | M6 | 3 | 130 | 110 | 160 | M8 | 3.5 |
| JLEJ90S | 195 | 140 | 24 | M8X19 | 50 | 8 | 20 | 2-M25X1.5 | 400 | 115 | 95 | 140 | M8 | 3 | 130 | 110 | 160 | M8 | 3.5 |
| JLEJ90L | 195 | 140 | 24 | M8X19 | 50 | 8 | 20 | 2-M25X1.5 | 426 | 115 | 95 | 140 | M8 | 3 | 130 | 110 | 160 | M8 | 3.5 |
| JLEJ100L | 215 | 160 | 28 | M10X22 | 60 | 8 | 24 | 2-M32X1.5 | 465 | 130 | 110 | 160 | M8 | 3.5 | 165 | 130 | 200 | M10 | 3.5 |
| JLEJ112M | 240 | 178 | 28 | M10X22 | 60 | 8 | 24 | 2-M32X1.5 | 495 | 130 | 110 | 160 | M8 | 3.5 | 165 | 130 | 200 | M10 | 3.5 |
| JLEJ132S | 275 | 206 | 38 | M12X28 | 80 | 10 | 33 | 2-M32X1.5 | 570 | 165 | 130 | 200 | M10 | 3.5 | 215 | 180 | 250 | M12 | 4 |
| JLEJ132M | 275 | 206 | 38 | M12X28 | 80 | 10 | 33 | 2-M32X1.5 | 610 | 165 | 130 | 200 | M10 | 3.5 | 215 | 180 | 250 | M12 | 4 |
| JLEJ160M | 330 | 255 | 42 | M16X36 | 110 | 12 | 37 | 2-M40X1.5 | 715 | 215 | 180 | 250 | M12 | 4 | - | - | - | - | - |
| JLEJ160L | 330 | 255 | 42 | M16X36 | 110 | 12 | 37 | 2-M40X1.5 | 760 | 215 | 180 | 250 | M12 | 4 | - | - | - | - | - |

## 2/4 pole · 3000/1500TM · 400V · 50HZ

constant torque - dahlander winding - connection YY/Δ

| TYPE | kW | Volts | Hz | Amps | Cos φ | EFF% | RPM | CONN. | DUTY | INS.CL. | IP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 80l-2/4 | 0.55/0.45 | 400 | 50 | 1.63/1.18 | 0.74/0.85 | 66/65 | 2860/1420 | 2Y/Δ | S1 | F | 55 |
| 80z-2/4 | 0.75/0.55 | 400 | 50 | 1.93/1.58 | 0.85/0.74 | 66/68 | 2860/1420 | 2Y/Δ | S1 | F | 55 |
| 90L-2/4 | 1.8/1.3 | 400 | 50 | 4.17/3.21 | 0.83/0.77 | 75/76 | 2840/1420 | 2Y/Δ | S1 | F | 55 |
| 90S-2/4 | 1.1/0.85 | 400 | 50 | 2.41/2.1 | 0.89/0.8 | 74/73 | 2820/1400 | 2Y/Δ | S1 | F | 55 |
| 100L2-2/4 | 3/2.4 | 400 | 50 | 5.95/5.22 | 0.91/0.84 | 80/79 | 2840/1420 | 2Y/Δ | S1 | F | 55 |
| 100L1-2/4 | 2.4/2 | 400 | 50 | 5.3/4.57 | 0.86/0.81 | 76/78 | 2850/1400 | 2Y/Δ | S1 | F | 55 |
| 112M-2/4 | 4/3.3 | 400 | 50 | 7.92/7 | 0.9/0.84 | 81/81 | 2880/1440 | 2Y/Δ | S1 | F | 55 |
| 132M-2/4 | 8/6.5 | 400 | 50 | 15.6/13.1 | 0.9/0.85 | 82/84 | 2870/1450 | 2Y/Δ | S1 | F | 55 |
| 160L-2/4 | 15/11 | 400 | 50 | 26.2/23 | 0.92/0.79 | 89.82/87.3 | 2920/1446 | 2Y/Δ | S1 | F | 55 |
| 160M-2/4 | 11/9 | 400 | 50 | 21.8/17.6 | 0.89/0.85 | 82/87 | 2920/1460 | 2Y/Δ | S1 | F | 55 |

variable torque - dahlander winding - connection YY/ Y

| TYPE | kW | Volts | Hz | Amps | Cos φ | EFF% | RPM | CONN. | DUTY | INS.CL. | IP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 80-2/4 | 0.75/0.17 | 400 | 50 | 1.86/0.8 | 0.81/0.5 | 72/61 | 2860/1420 | 2Y/Y | S1 | F | 55 |
| 80-2/4 | 0.95/0.25 | 400 | 50 | 2.32/0.9 | 0.8/0.61 | 74/66 | 2870/1410 | 2Y/Y | S1 | F | 55 |
| 90S-2/4 | 1.4/0.3 | 400 | 50 | 3.08/1.1 | 0.82/0.57 | 80/69 | 2880/1430 | 2Y/Y | S1 | F | 55 |
| 90L-2/4 | 1.9/0.4 | 400 | 50 | 4.18/1.47 | 0.82/0.57 | 80/69 | 2885/1435 | 2Y/Y | S1 | F | 55 |
| 100L1-2/4 | 2.5/0.65 | 400 | 50 | 5.01/1.94 | 0.89/0.7 | 81/69 | 2875/1425 | 2Y/Y | S1 | F | 55 |
| 100L2-2/4 | 3.1/0.8 | 400 | 50 | 6.06/2.26 | 0.89/0.7 | 83/73 | 2880/1430 | 2Y/Y | S1 | F | 55 |
| 112M-2/4 | 4.4/1.1 | 400 | 50 | 8.69/3.03 | 0.87/0.69 | 84/76 | 2915/1445 | 2Y/Y | S1 | F | 55 |
| 132S-2/4 | 5.9/1.4 | 400 | 50 | 11.4/3.55 | 0.9/0.74 | 83/77 | 2920/1460 | 2Y/Y | S1 | F | 55 |
| 132M-2/4 | 8/2 | 400 | 50 | 14.9/4.68 | 0.91/0.78 | 85/79 | 2920/1455 | 2Y/Y | S1 | F | 55 |
| 160M-2/4 | 12.5/2.8 | 400 | 50 | 23.6/6.74 | 0.9/0.75 | 85/80 | 2930/1465 | 2Y/Y | S1 | F | 55 |
| 160L-2/4 | 16.5/3.8 | 400 | 50 | 30.1/8.8 | 0.91/0.76 | 87/82 | 2935/1465 | 2Y/Y | S1 | F | 55 |
| 180M-2/4 | 20/5.5 | 400 | 50 | 37.3/13.1 | 0.89/0.74 | 87/82 | 2940/1465 | 2Y/Y | S1 | F | 55 |
| 180L-2/4 | 24/6.4 | 400 | 50 | 44.2/15.6 | 0.89/0.72 | 88/82 | 2945/1465 | 2Y/Y | S1 | F | 55 |

## 4/6 pole · 1500/1000TM · 400V · 50HZ

independent winding - connection Y/ Y

| TYPE | kW | Volts | Hz | Amps | Cos φ | EFF% | RPM | CONN. | DUTY | INS.CL. | IP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 90S-4/6 | 1.1/0.32 | 400 | 50 | 2.62/1.28 | 0.82/0.58 | 74/62 | 1405/950 | Y/Y | S1 | F | 55 |
| 90L-4/6 | 1.1/0.5 | 400 | 50 | 2.72/1.58 | 0.79/0.67 | 74/68 | 1420/940 | Y/Y | S1 | F | 55 |
| 90L-4/6 | 1.4/0.45 | 400 | 50 | 3.33/1.41 | 0.81/0.66 | 75/70 | 1400/885 | Y/Y | S1 | F | 55 |
| 100L2-4/6 | 2.2/0.75 | 400 | 50 | 4.96/2.54 | 0.82/0.7 | 78/61 | 1430/940 | Y/Y | S1 | F | 55 |
| 100L1-4/6 | 2.2/0.7 | 400 | 50 | 5.02/2.1 | 0.79/0.66 | 80/73 | 1420/910 | Y/Y | S1 | F | 55 |
| 100L2-4/6 | 2.2/1.5 | 400 | 50 | 5.43/4.55 | 0.78/0.68 | 75/70 | 1435/940 | Y/Y | S1 | F | 55 |
| 100L2-4/6 | 2.5/0.9 | 400 | 50 | 5.71/2.62 | 0.78/0.67 | 81/74 | 1420/910 | Y/Y | S1 | F | 55 |
| 112M-4/6 | 2.2/1.5 | 400 | 50 | 4.79/3.75 | 0.85/0.75 | 78/77 | 1430/950 | Y/Y | S1 | F | 55 |
| 112M-4/6 | 3.2/1.1 | 400 | 50 | 6.87/2.99 | 0.82/0.68 | 82/78 | 1440/960 | Y/Y | S1 | F | 55 |
| 132S-4/6 | 4.7/1.5 | 400 | 50 | 10.1/4.63 | 0.83/0.64 | 81/73 | 1450/970 | Y/Y | S1 | F | 55 |
| 132M-4/6 | 6.7/2.2 | 400 | 50 | 13.4/5.54 | 0.85/0.69 | 85/83 | 1440/970 | Y/Y | S1 | F | 55 |

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| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 132M-4/6 | 4/3 | 400 | 50 | 8.09/7.98 | 0.84/0.67 | 85/81 | 1460/970 | Y/Y | S1 | F | 55 |
| 160L-4/6 | 12/4 | 400 | 50 | 23.4/10.1 | 0.84/0.69 | 88/83 | 1460/970 | Y/Y | S1 | F | 55 |
| 160M-4/6 | 9.5/3.1 | 400 | 50 | 19.7/7.46 | 0.82/0.75 | 85/80 | 1450/970 | Y/Y | S1 | F | 55 |
| 180L-4/6 | 18.5/6.2 | 400 | 50 | 36.1/14.9 | 0.85/0.74 | 87/81 | 1470/980 | Y/Y | S1 | F | 55 |
| 180M-4/6 | 15.5/5.1 | 400 | 50 | 28.6/13.4 | 0.89/0.68 | 88/81 | 1465/985 | Y/Y | S1 | F | 55 |
| 200L-4/6 | 26/8.7 | 400 | 50 | 46.9/19.4 | 0.9/0.79 | 89/82 | 1465/985 | Y/Y | S1 | F | 55 |
| 225S-4/6 | 33/11 | 400 | 50 | 62.2/22.5 | 0.86/0.84 | 89/84 | 1460/980 | Y/Y | S1 | F | 55 |
| 225M-4/6 | 39/13 | 400 | 50 | 72.7/26 | 0.86/0.85 | 90/85 | 1460/980 | Y/Y | S1 | F | 55 |
| 250M-4/6 | 47/16 | 400 | 50 | 84.7/31.2 | 0.89/0.87 | 90/85 | 1480/990 | Y/Y | S1 | F | 55 |
| 280S-4/6 | 55/18.5 | 400 | 50 | 100/36.5 | 0.88/0.86 | 90/85 | 1480/990 | Y/Y | S1 | F | 55 |

## 4/8 pole · 1500/750TM · 400V · 50HZ

constant torque - dahlander winding - connection YY/ Δ

| TYPE | kW | Volts | Hz | Amps | Cos φ | EFF% | RPM | CONN. | DUTY | INS.CL. | IP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 90L-4/8 | 0.75/0.45 | 400 | 50 | 1.73/1.84 | 0.87/0.61 | 72/58 | 1385/675 | 2Y/Δ | S1 | F | 55 |
| 100L-4/8 | 1.5/0.85 | 400 | 50 | 3.19/2.98 | 0.87/0.58 | 78/71 | 1420/710 | 2Y/Δ | S1 | F | 55 |
| 112M-4/8 | 2.4/1.5 | 400 | 50 | 5.05/4.77 | 0.88/0.63 | 78/72 | 1410/700 | 2Y/Δ | S1 | F | 55 |
| 132S-4/8 | 3.3/2.2 | 400 | 50 | 7.94/6.89 | 0.75/0.64 | 80/72 | 1460/730 | 2Y/Δ | S1 | F | 55 |
| 132M-4/8 | 4.5/3 | 400 | 50 | 8.9/8.54 | 0.89/0.65 | 82/78 | 1440/720 | 2Y/Δ | S1 | F | 55 |
| 160L-4/8 | 11/7 | 400 | 50 | 20.3/16.9 | 0.91/0.71 | 86/84 | 1425/720 | 2Y/Δ | S1 | F | 55 |
| 160M-4/8 | 7.5/5.5 | 400 | 50 | 14.3/14.3 | 0.87/0.66 | 87/84 | 1455/730 | 2Y/Δ | S1 | F | 55 |
| 180L-4/8 | 17/11 | 400 | 50 | 30.6/25.3 | 0.91/0.72 | 88/87 | 1470/730 | 2Y/Δ | S1 | F | 55 |
| 200L1-4/8 | 22/14 | 400 | 50 | 39.2/31.8 | 0.92/0.74 | 88/86 | 1470/730 | 2Y/Δ | S1 | F | 55 |
| 200L2-4/8 | 26/17 | 400 | 50 | 46.9/40.9 | 0.9/0.69 | 89/87 | 1460/730 | 2Y/Δ | S1 | F | 55 |
| 225M-4/8 | 34/24 | 400 | 50 | 63.4/50.5 | 0.88/0.77 | 88/89 | 1480/730 | 2Y/Δ | S1 | F | 55 |
| 250M-4/8 | 42/30 | 400 | 50 | 74/63.1 | 0.91/0.78 | 90/88 | 1470/730 | 2Y/Δ | S1 | F | 55 |
| 280S-4/8 | 55/40 | 400 | 50 | 96.9/79.3 | 0.91/0.8 | 90/91 | 1480/730 | 2Y/Δ | S1 | F | 55 |
| 280M-4/8 | 67/47 | 400 | 50 | 117/92 | 0.92/0.81 | 90/91 | 1480/740 | 2Y/Δ | S1 | F | 55 |

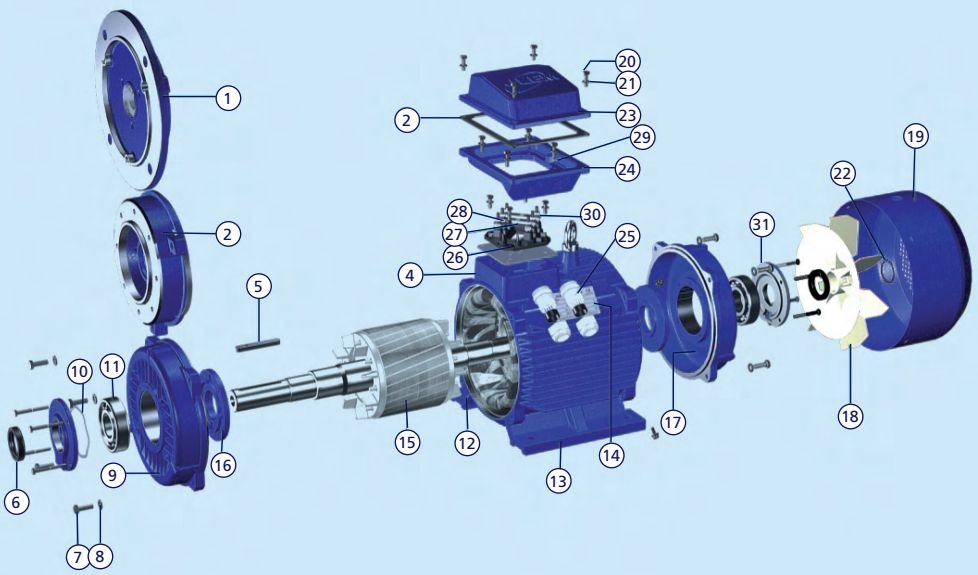
variable torque - dahlander winding - connection YY/ Y

| TYPE | kW | Volts | Hz | Amps | Cos φ | EFF% | RPM | CONN. | DUTY | INS.CL. | IP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 90S-4/8 | 1/0.22 | 400 | 50 | 2.35/0.88 | 0.82/0.6 | 75/60 | 1400/680 | 2Y/Y | S1 | F | 55 |
| 90L-4/8 | 1.3/0.3 | 400 | 50 | 2.97/1.13 | 0.83/0.62 | 76/62 | 1400/680 | 2Y/Y | S1 | F | 55 |
| 100L1-4/8 | 2/0.55 | 400 | 50 | 4.51/2 | 0.8/0.61 | 80/65 | 1445/700 | 2Y/Y | S1 | F | 55 |
| 100L2-4/8 | 2.4/0.65 | 400 | 50 | 4.97/2.68 | 0.84/0.53 | 83/66 | 1430/710 | 2Y/Y | S1 | F | 55 |
| 112M-4/8 | 3.2/0.9 | 400 | 50 | 7.14/3.18 | 0.77/0.56 | 84/73 | 1450/710 | 2Y/Y | S1 | F | 55 |
| 132S-4/8 | 4.5/1.1 | 400 | 50 | 9.32/3.57 | 0.81/0.57 | 86/78 | 1460/730 | 2Y/Y | S1 | F | 55 |
| 132M-4/8 | 6.3/1.5 | 400 | 50 | 12.6/4.61 | 0.83/0.58 | 87/81 | 1460/730 | 2Y/Y | S1 | F | 55 |
| 160M-4/8 | 8.9/2 | 400 | 50 | 17.8/5.25 | 0.85/0.67 | 85/82 | 1445/720 | 2Y/Y | S1 | F | 55 |
| 160L-4/8 | 12/2.7 | 400 | 50 | 24/7.09 | 0.85/0.67 | 85/82 | 1445/720 | 2Y/Y | S1 | F | 55 |
| 180M-4/8 | 16/4 | 400 | 50 | 30.9/10.6 | 0.85/0.65 | 88/84 | 1470/730 | 2Y/Y | S1 | F | 55 |
| 180L-4/8 | 19.5/5 | 400 | 50 | 37.2/12.9 | 0.85/0.66 | 89/85 | 1470/720 | 2Y/Y | S1 | F | 55 |
| 200L-4/8 | 29/7.5 | 400 | 50 | 54.7/18.9 | 0.85/0.66 | 90/87 | 1480/730 | 2Y/Y | S1 | F | 55 |
| 225M-4/8 | 40/9.5 | 400 | 50 | 72.1/24.3 | 0.88/0.64 | 91/88 | 1480/720 | 2Y/Y | S1 | F | 55 |
| 250M-4/8 | 52/14.5 | 400 | 50 | 95.9/38.5 | 0.86/0.64 | 91/85 | 1485/740 | 2Y/Y | S1 | F | 55 |
| 280S-4/8 | 65/17 | 400 | 50 | 119/40.5 | 0.87/0.68 | 91/89 | 1490/740 | 2Y/Y | S1 | F | 55 |
| 280M-4/8 | 75/18.5 | 400 | 50 | 137/44.1 | 0.87/0.68 | 91/89 | 1490/740 | 2Y/Y | S1 | F | 55 |

**Maatschetsen zie p10-11**

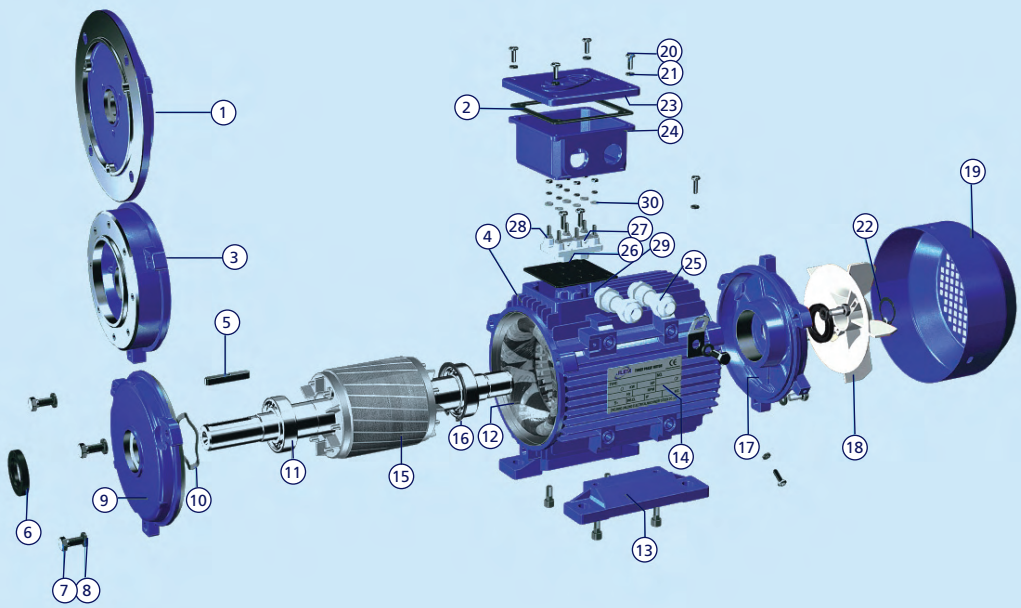
# Exploded view

## JM serie



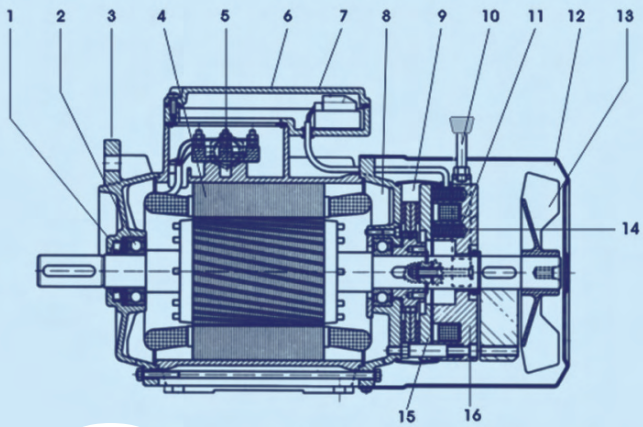
1. B5 Flange
2. Gasket
3. B14 Flange
4. Frame
5. Key
6. (V Ring) Oil Seal
7. Bolt
8. Spring Washer
9. Front endshield
10. Wave washer
11. Bearing
12. Stator
13. Feet
14. Nameplate
15. Rotor
16. Circlip
17. Rear endshield
18. Fan
19. Fan cowl
20. Screw
21. Washer
22. Fan Clamp
23. Terminal box lid
24. Terminal box base
25. Cable gland
26. Terminal board
27. Brass lug
28. Brass net
29. Earth mark
30. Brash washer

## JL serie



1. B5 Flange
2. Gasket
3. B14 Flange
4. Frame
5. Key
6. (V Ring) Oil Seal
7. Bolt
8. Spring Washer
9. Front endshield
10. Wave washer
11. Bearing
12. Stator
13. Feet
14. Nameplate
15. Rotor
16. Inner bearing cap
17. Rear endshield
18. Fan
19. Fan cowl
20. Screw
21. Washer
22. Fan Clamp
23. Terminal box lid
24. Terminal box base
25. Cable gland
26. Terminal board
27. Brass lug
28. Brass net
29. Earth mark
30. Brash washer
31. Outer bearing cap

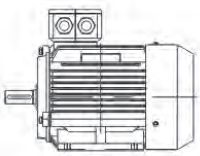
## JLEJ serie



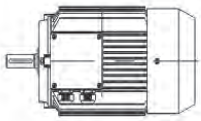
1. Oilseal
2. Bearing
3. Frontendshield
4. Stator
5. Terminal board
6. Terminal box
7. Rectifier
8. Backendshield
9. Brake disk
10. Manual release level
11. Spring
12. Fan cover
13. Fan
14. Adjusting screw
15. Electromagnet
16. Armature

# Bouwvormen

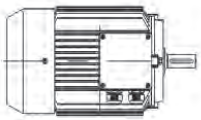
IM B3
IM 1001
63-450



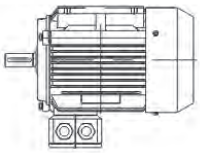
IM B6
IM 1051
63-160



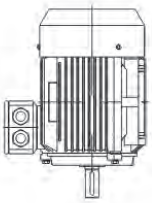
IM B7
IM 1061
63-160



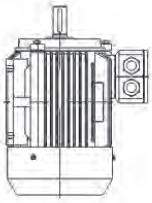
IM B8
IM 1071
63-160



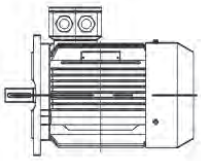
IM V5
IM 1011
63-160



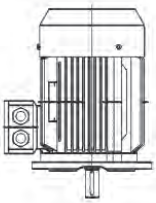
IM V6
IM 1031
63-160



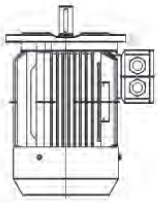
IM B5
IM 3001
63-450



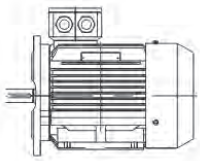
IM V1
IM 3011
63-450



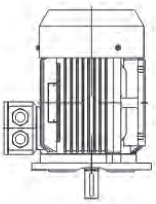
IM V3
IM 3031
63-160



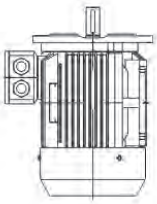
IM B35
IM 2001
63-450



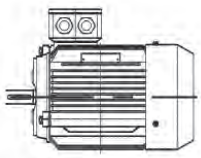
IM V15
IM 2011
63-160



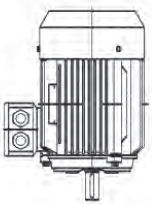
IM V35
IM 2031
63-160



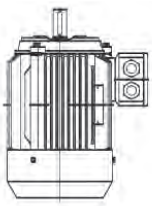
IM B14
IM 3601
63-132



IM V18
IM 3611
63-132



IM V19
IM 3631
63-132



IM B34
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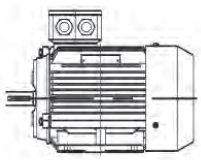
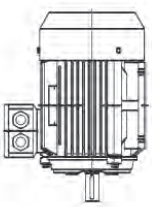
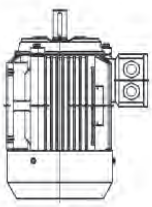
63-132



IM V17
IM 2111
63-132



IM V37
IM 2131
63-132



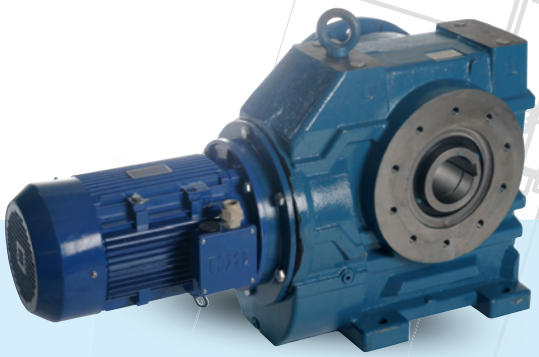
# Radicon

FORMERLY A DAVID BROWN BUSINESS

## Serie C

*Available with Drywell System for maximum protector against oil contamination on vertical shaft mixing and aerating applications.*

Unit Sizes: 03, 04, 05, 06, 07, 0, 09 and 10
Input Power: Up to 45 kW or 60 HP
Output Torque: Up to 10,000 Nm or 88,500 Lbin
Gear Ratios: Up to 60,000:1
Motor Sizes: IEC Frames from 63 to 225, NEMA Frames from 56 to 326



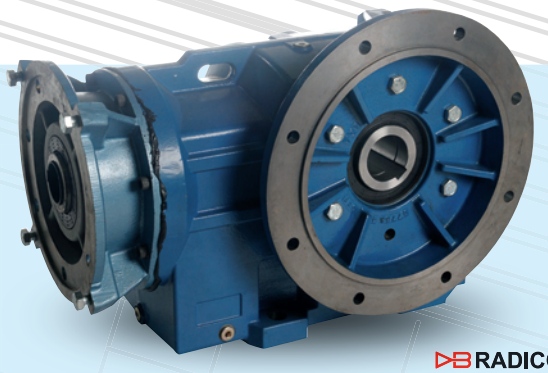
RADICON BENZLERS

## Serie K

*Key dimensions throughout the range are interchangeable with many manufacturers allowing easy installation into existing applications*

Unit Sizes: 03, 04, 05, 06, 07, 0, 09, 10 and 12
Input Power: Up to 90 kW or 121 HP
Output Torque: Up to 160: 1 in three stages, 10,000: 1 in five stages, and 63,000: 1 in six tages
Motor Sizes: IEC Frames from 63 to 280, NEMA Frames from 56 to 405

Is it costing you too much to run your process? you can improve the efficiency of your process by replacing your right angle worm drives with David Brown Series K bevel helical units. The Series K high efficiency right angle drive is ideal for light mechanical handling applications, improving efficiency. SAVING you money



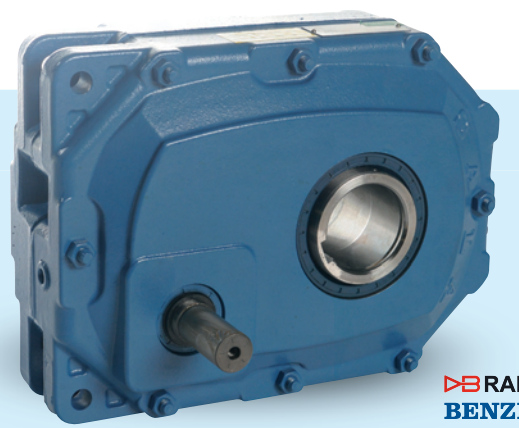
RADICON BENZLERS

## J sala

*Available with unique KIBO® tapered bushing system to allow trouble free removal of hollow shaft gearboxes*

Unit sizes: 11/12, 21/22, 31/32, 51/52, 71/72, 100, 110, 125, 140, 160, 190
Input Power: Up to 618kW or 830 HP
Output Torque: Up to 57,800 Nm or 512,000 lbin
Gear Ratio: 5:1 to 20:1
Hollow Shaft: 35 to 190 mm or 1,38" to 7,5"
Motor Sizes: IEC Frames B3 from 90 to 200, NEMA Frames from 200 to 315

Series J Sala hollow shaft gearboxs are designed for quick installation and removal, no foundations required and minimal 'design in' time.



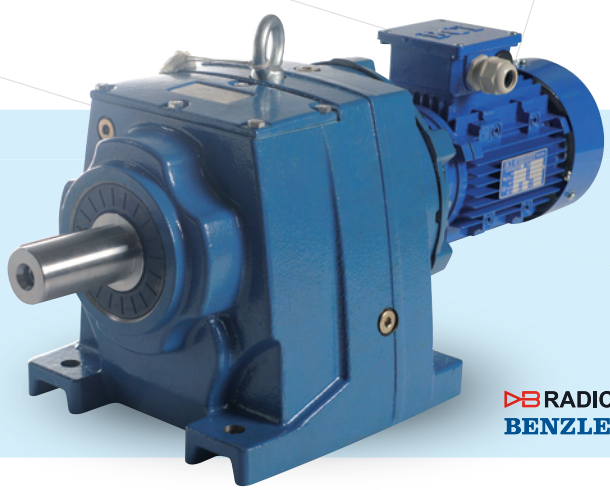
RADICON BENZLERS

## Serie M

*Proven design geared motors with dry connection between motor and gearbox for easy removal of the motor*

Unit Sizes: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 13 and 14
Input Power: Up to 90 kW or 120 HP
Output Torque: Up to 11,00 Nm or 98,200 lbin
Gear Rations: 1.2: 1 to 16,200: 1
Motor Sizes: IEC Frames from 63 to 280, NEMA Fframes From 56 to 405

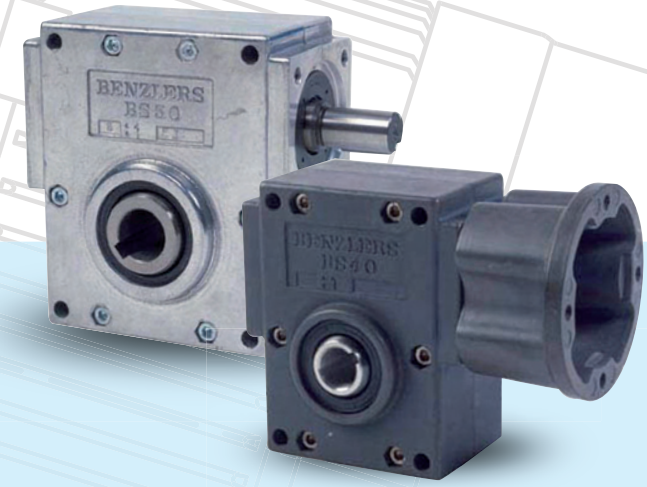
Replacing your geared motors with a new unit incorporating our patented dry motor connection adaptor will save you money in downtime - NOW! Allows you to replace standard motors on our gearboxes without draining oil or taking the gearbox off the machine.



RADICON BENZLERS

# Serie BS

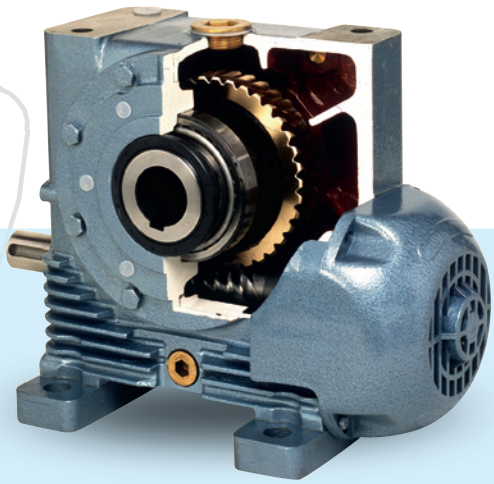
Designed for clean operation, available with environmental coating to prevent corrosion and stainless steel output sleeve options - providing a cost effective upgrade to existing drives. The Series BS worm gear ranges' wash down features enables a long life operation in humid applications and wash down locations.




RADICON
BENZLERS

# Serie A

FEATURES: Accepts standard IEC/NEMA motors ▪ Cast Iron Case ▪ High torque capacity ▪ Lubricated for life (A junior) ▪ Modular construction (A Mid) ▪ Ready built with modular accessories (A Junior)
BENEFITS: Non dedicated industry standard motors, readily available. Free motor brand choice ▪ Robust Design, minimal service. Increased plant availability ▪ Allows downsizing. Reduced costs ▪ Fit and forget. Reduced maintenance costs ▪ Quick build/availability. Increased plant availability ▪ Fast customisation and availability. Increased plant availability



RADICON
BENZLERS

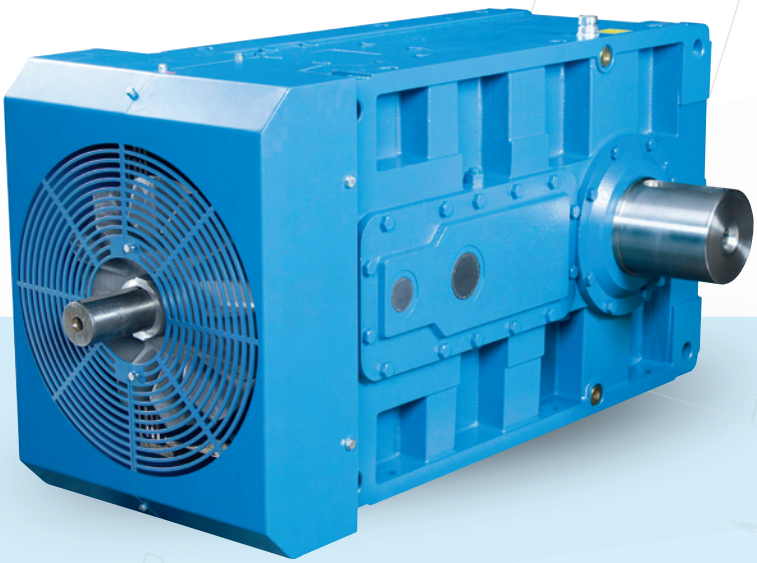
# Serie BD

David Brown have local application engineers on a global scale experienced at customising complete screw jack systems to meet your exacting requirements.
Robust, long life, easy maintenance Series BD for all applications including steel, paper, automotive and communications - your experienced partner in screw jack engineering.

RADICON
BENZLERS

# Serie G

Replacing your wormgear with a new highly efficient Series G industrial reducers will save you money - NOW!



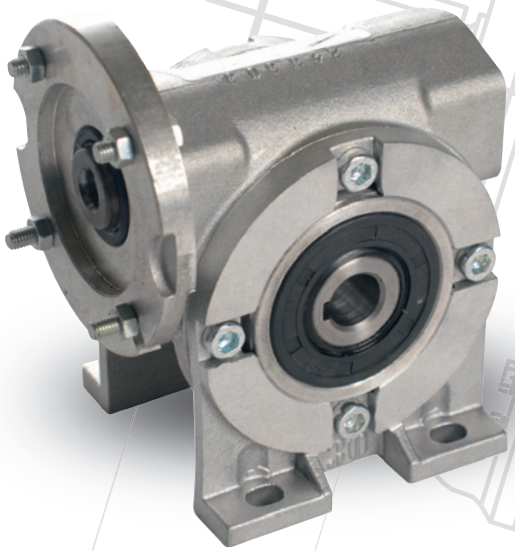
RADICON
BENZLERS

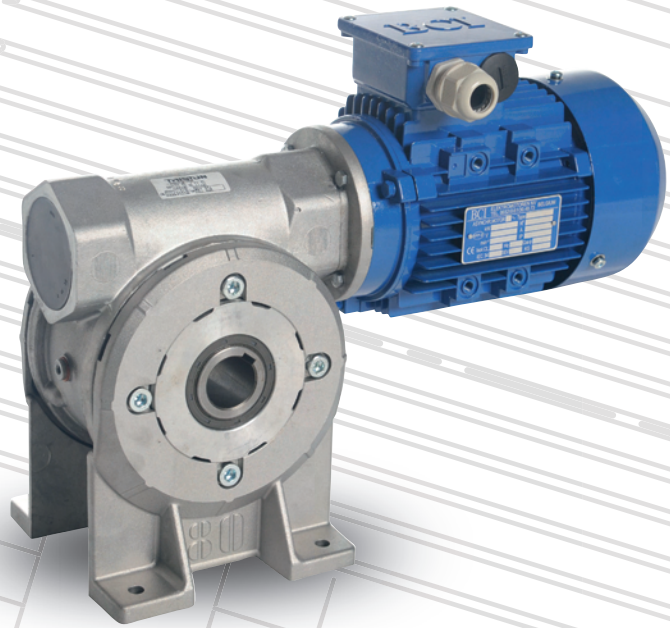
# Andere reductoren

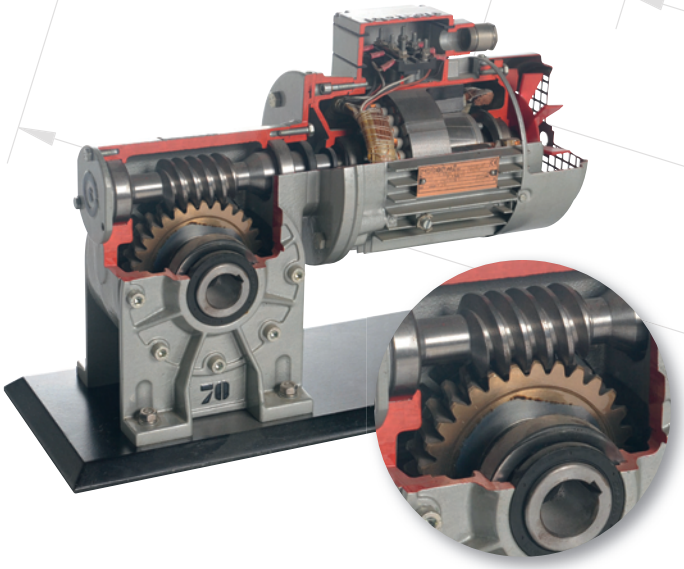
## Serie MRT

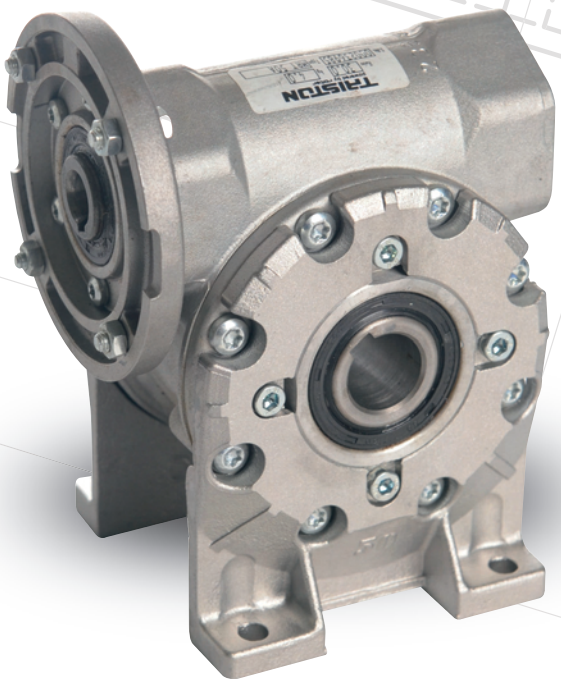
*Low cost – high quality - on stock*

### Uitvoering A

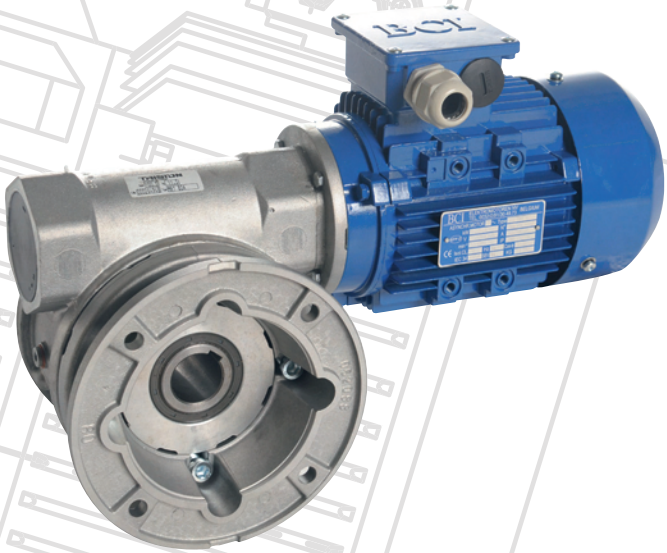








## Uitvoering FF (Flens)

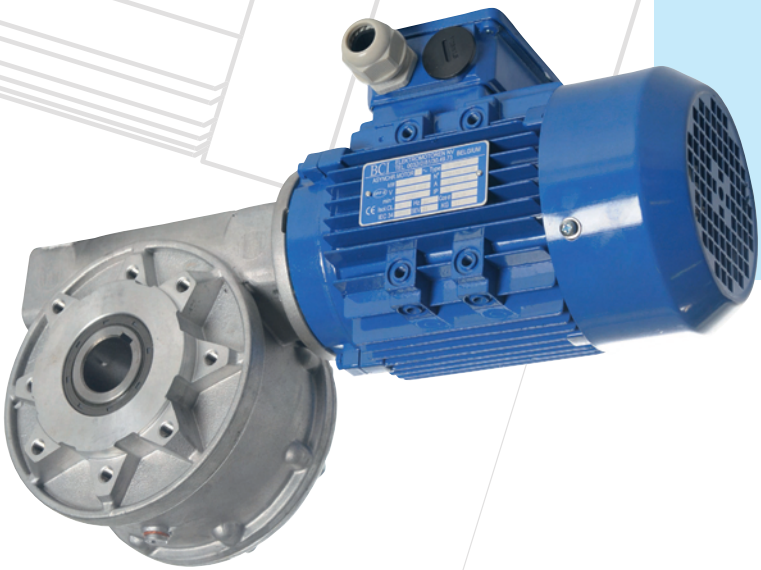


Modern design, proved quality, reliability and the involute gear profile used at the worm gearing guarantee trouble-free service of MRT. A, series gear unites. The MRT30A to MRT80A gear unit housings, feet and flanges are made of aluminium alloy and are supplied unpainted as standard. By request any worm-gear unit can be supplied in stainless steel execution.

Characteristic properties of worm-gear units

- High gear ratio 5 to 100 achieved by one gear unit only
- Noise-free operation
- High load capacity
- Self-locking ability
- Reduced weight
- Easy integration to the driven machine

## Uitvoering FT (B14)



# Ventilatoren

## Radiale ventilator

### CMP Monofasig

Centrifugal medium-pressure fans fitted with multi-blade impeller.

### CMP 3 fasig

Centrifugal single-inlet, medium-pressure fans with casing and impeller made from sheet steel

## Axiale ventilator

### HC

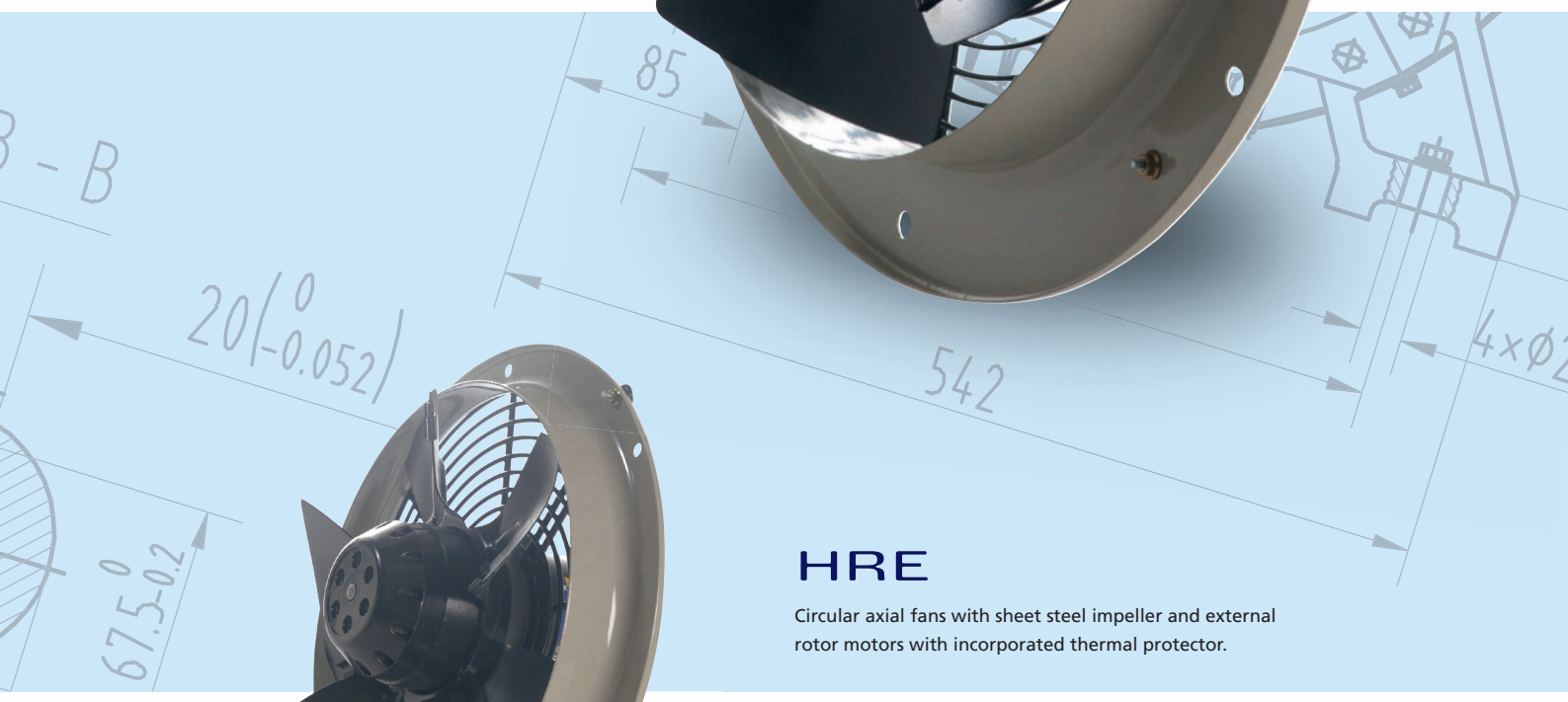
Wall-mounted axial fans, with IP55 motor
Wall-mounted axial fans with fiberglass-reinforced plastic impeller

*Catalogus op aanvraag

# Axiale ventilator

## HRE

Circular axial fans with external rotor motor






## HRE

Circular axial fans with sheet steel impeller and external rotor motors with incorporated thermal protector.

# Frequentiesturing

## Mitsubishi

### Serie A700
### 0,4Kw – 500 Kw

*Top-class drive technology Intelligent, flexible, powerfull*
*Advanced sensorless vector control*

### Serie D700
### 0,1Kw – 7,5KW

*The micro-drive solution*
*Small, cost-effective, reliable*

### Serie E700
### 0,1Kw – 15KW

*The compact drive solution Versatile, reliable, expandable*
*True sensorless vector control*

*Op stock tot 90Kw -
Erboven leverbaar in 24u

### Serie F700
### 0,75Kw – 630KW

*The power-saving inverter*
*for pump and fan application*

# Omron

## Serie MX2 0,1Kw – 15Kw


* uit stock leverbaar

OMRON
HITACHI
Inspire the Next

OMRON
HITACHI
Inspire the Next

## Serie RX
## 0,4Kw – 132Kw

OMRON
HITACHI
Inspire the Next

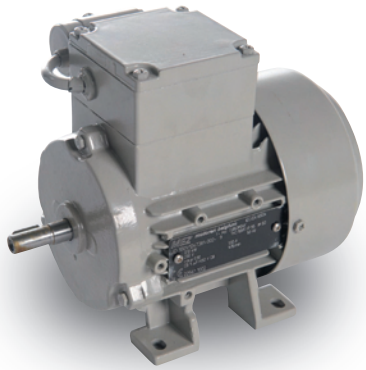
## Serie JX
## 0,2Kw – 7,5Kw

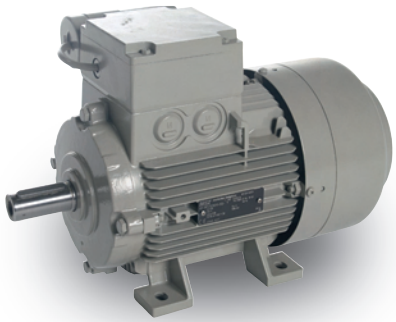
OMRON
HITACHI
Inspire the Next

# Monofase Motoren

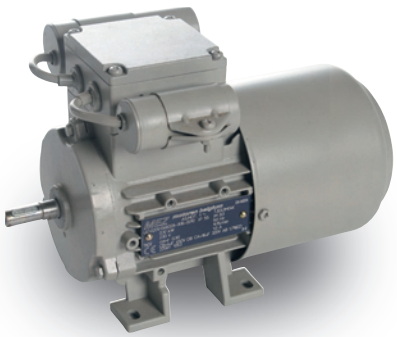
## MEZ

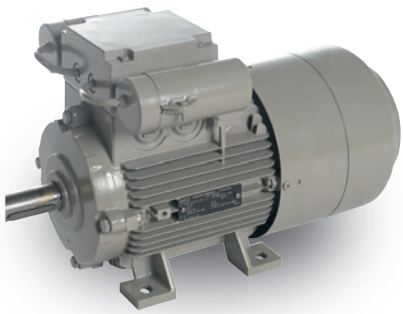
### Serie 7JB



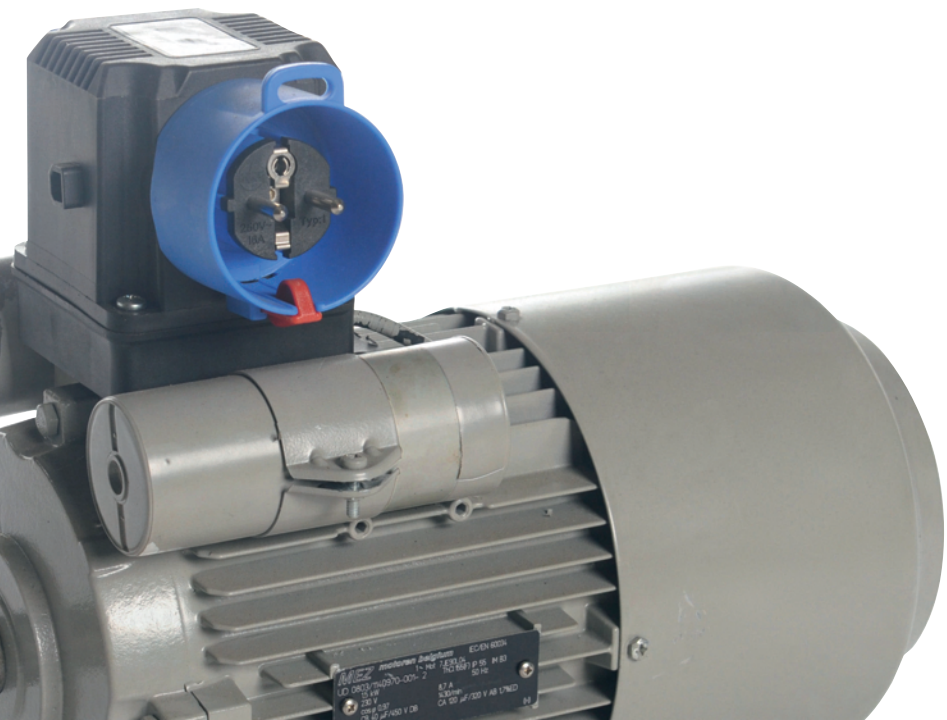


### Serie 7JE





### Serie TRIPUS



# MEZ 3fazig

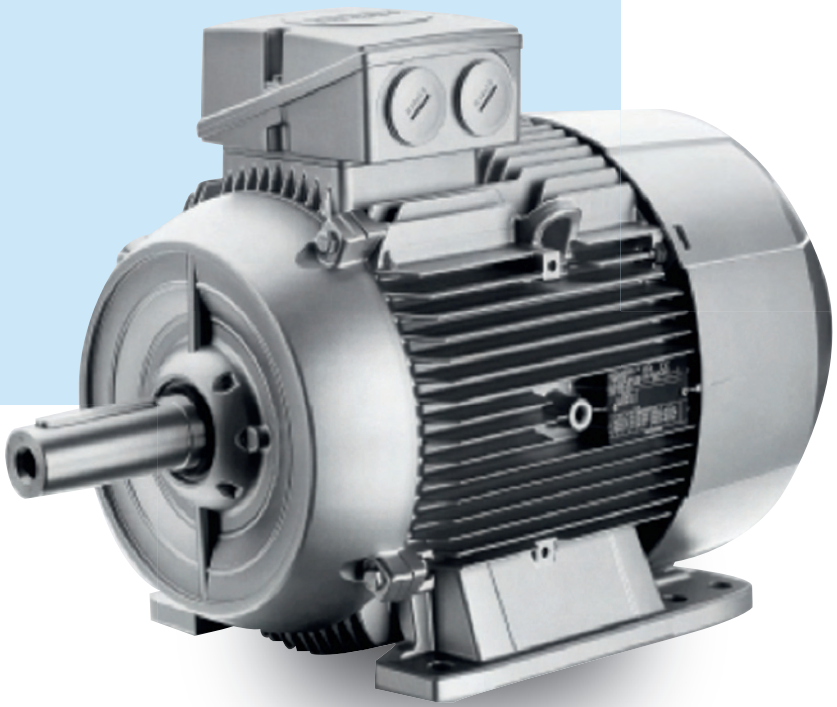
MEZ motoren bestaat uit een volledig gamma van 1-fasige motoren tot en met 3kW en 3-fasige industriemotoren tot en met 315kW, in rendementscategorieën: Standard Efficiency IE1, High Efficiency IE2 volgens IEC 60034-30. Motoren volgens categorie Premium Efficiency IE3 zijn in voorbereiding.

## Serie 7AA / 9AA:

Motoren met alumimium behuizing, beschikbaar in bouwgrootte (BG) 63 tot en met 90. Deze motoren zijn beschikbaar volgens IE1 (7AA reeks) ofwel IE2 (9AA reeks) rendementsklasse.

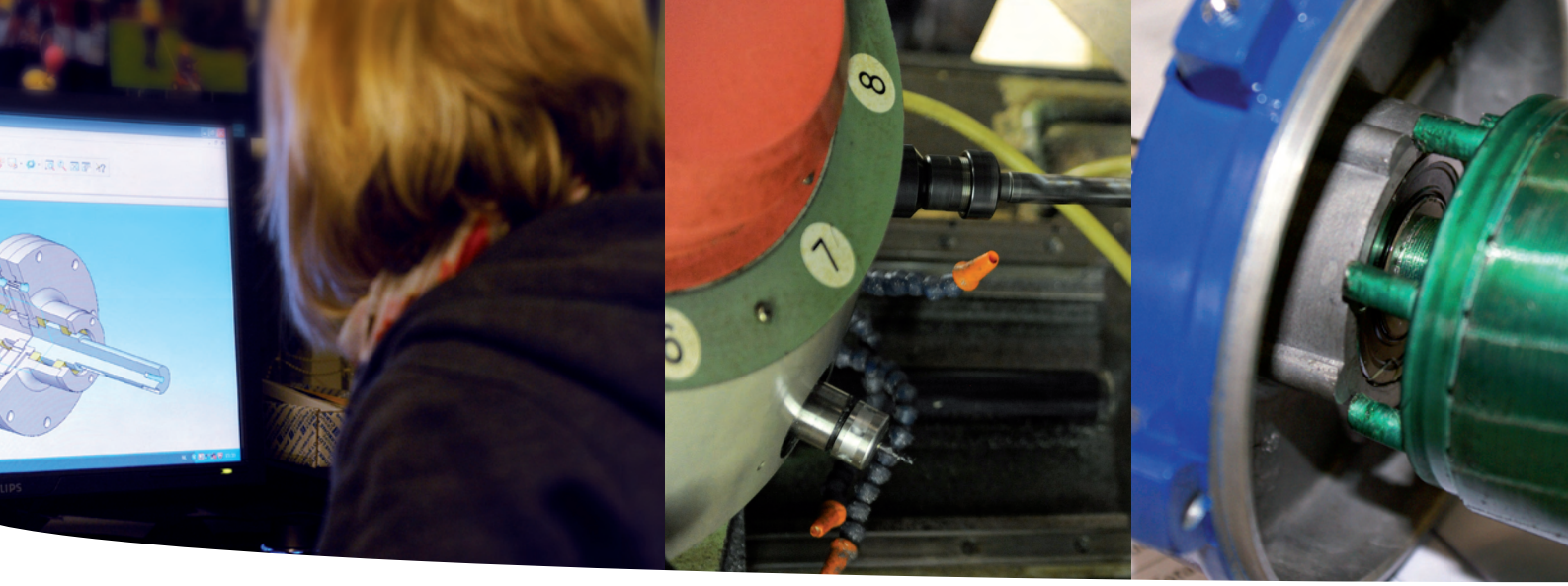
## Serie 1TZ9

Motoren met alumium behuizing (zie foto), beschikbaar in bouwgrootte 100 tot en met 160. Deze motoren zijn beschikbaar volgens volgens IE1 (1TZ9002 reeks) ofwel IE2 (1TZ9001 reeks) rendementsklasse.



## Serie 14BG / 16BG:

Motoren met gietijzeren behuizing, beschibaar in bouwgrootte 180 tot en met 315. Deze motoren zijn beschikbaar volgens volgens IE1 (14BG reeks) ofwel IE2 (16BG reeks) rendementsklasse. Op aanvraag kunnen reeds IE3 motoren BG 280 / 315 aangeboden worden.



# BCI Service

## Speciale uitvoeringen in eigen atelier

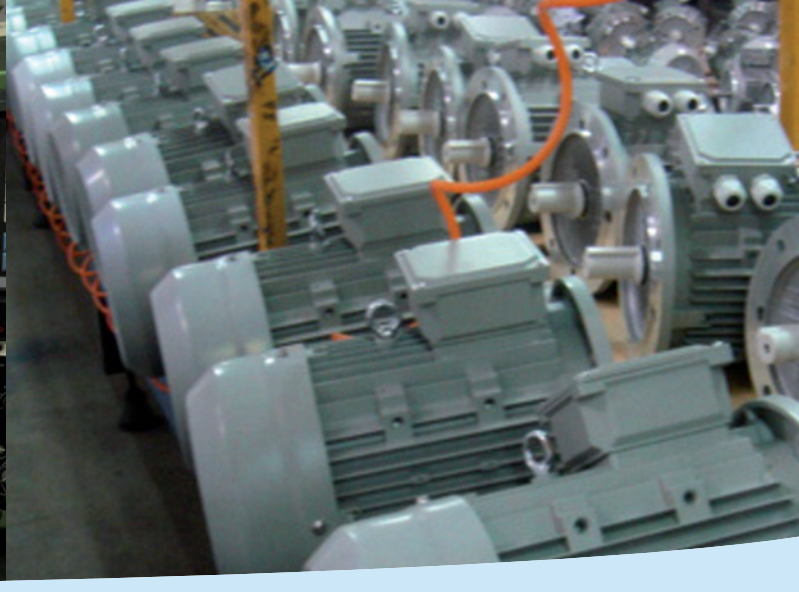
JM1, JL1 high efficiency motor (IE2) and JM3, JL3 premium efficiency motor (IE3) are the energy-saving motors developed by ourselves independently according to the efficiency classification of IEC60034-30, IE2 and IE3 are the world wide unified efficiency classification of electric motor. It is expected to potentially save energy by 30%-60% for an optimized system.

IE2 & IE3 energy efficiency motor are according to IE60034-1 Part 1: energy efficiency classification and performance of rotating motor and IEC60034-2-1 Part 2-1: losses and testing method of rotating motor, which is the most authoritative efficiency standard in the world. These motors are also in compliance with the efficiency standards covered by NEMA, CSA, CEMEP, COPANT, AS, NZS, JIS, GB.

IE2 & IE1 50HZ is respectively based on EFF1 and EFF2 of CEMEP in EU. IE2& IE3 60HZ is respectively based on EPACT and Premium efficiency of NEMA.

JM1, JL1 (IE2) & JM3, JL3 (IE3) energy-efficiency motors are under 50HZ and 60HZ , 1000V below, S1 duty, on 2P, 4P and 6P of frame size H80 to H355, covering a wide power range from 0.75 kw to 375 kw. They are the ideal hi-efficiency energy-saving products. These motors can be widely used in power transmission Industry such as pumps, ventilators, machine tools, reducers, packing machines, mining equipment and construction equipment

**Different voltage and different frequency such as 230/400V, 400/690V, 415V or 60Hz are also available on clients' requests.**



# voorbeelden

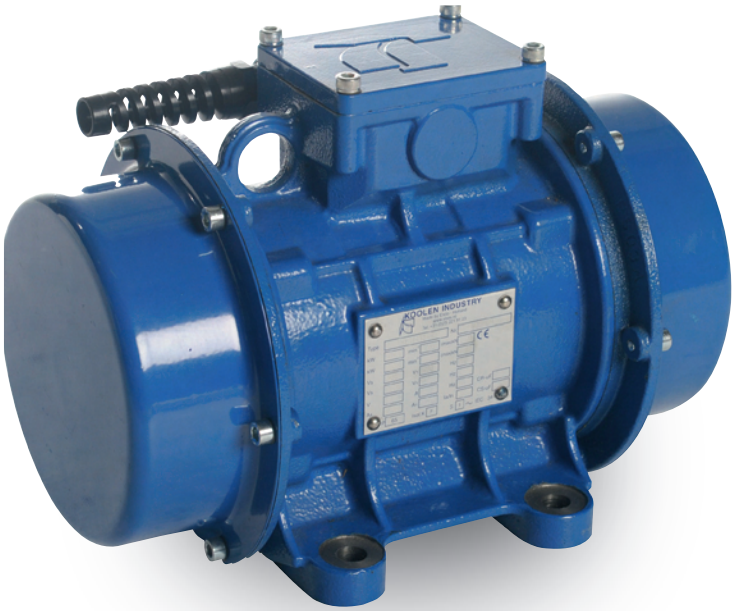
Inox Assen
- Overgedimensioneerde assen
- Langere assen dan standaard
- Afwijkende asuiteinden
- Dubbele asuiteinden
- Speciale flenzen vierkant
- Montage eindcontacten
- Montage tacho
- Montage pulsgever
- Stilstandsbewaking
- Montage PT100, PTC, Thermieken in wikkeling
- Stilstandsverwarming 220V – 400V
- Montage specifieke remmen Pintsch Bamag
- Montage remmen LENZE 230V - 400V

Toepassingen
- Marine industrie
- Houtbewerkingsindustrie
- Voeder industrie
- Textielindustrie
- Chemische industrie
- Constructies allerhande

Realisaties

# TrilMotoren

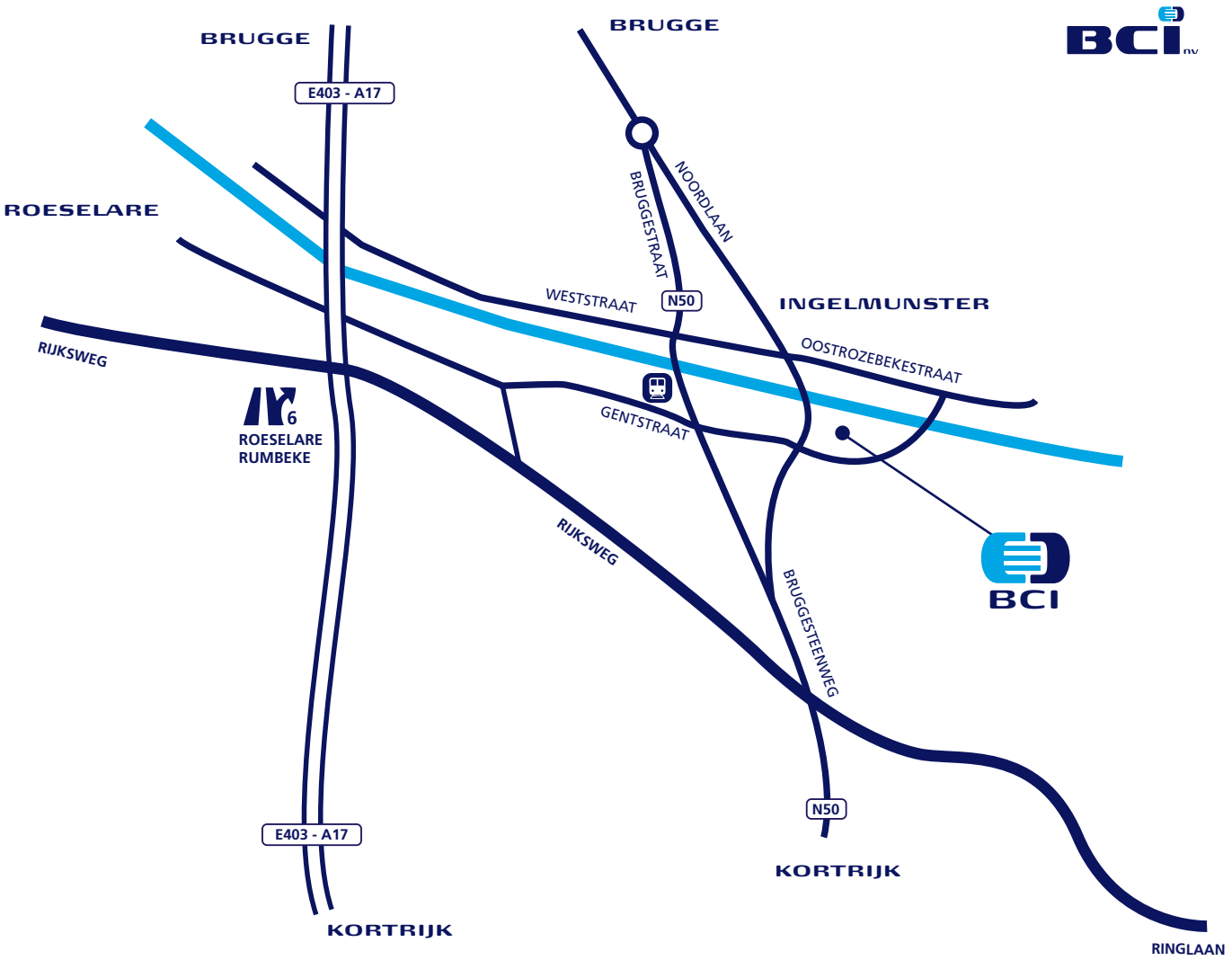
## Serie KBM



*Catalogus op aanvraag

# SpindelMotoren

*Catalogus op aanvraag



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