# DATASHEET

## IE4 THREE PHASES MOTOR



## GENERAL DATA

| | |
|---|---|
| **Motor Code:** | **MS4-160L-8** |
| **Power (kW):** | **7.5** |
| **Frame Size:** | **160L** |
| **Housing Material:** | **Aluminium** |
| **Net Weight (kg):** | **116** |
| **Insulation Class:** | **F** |
| **Protection Degree:** | **IP55** |
| **Service Duty:** | **S1** |
| **Efficiency Class:** | **IE4** |
| **Cooling Method:** | **IC411** |
| **Standard:** | **IEC 60034** |
| **Bearing Types:** | **6309 ZZ** |
| **Noise Level (dB):** | **68** |
| **Moment of Inertia (kg*m2):** | **0.177635** |
| **Ambient Temp.:** | **-15C to +40C** |
| **Altitude:** | **1000m above sea level** |

## ELECTRICAL DATA

| | | | |
|---|---|---|---|
| **Power (kW):** | | | **7.5** |
| **Frequency (Hz):** | | | **50HZ** |
| **Speed (RPM):** | | | **725.0** |
| **Eff% (@400V)** | **100%: 89.3** | **75%: 89.7** | **50%: 89** |
| **Power Factor (Cos PHI):** | | | **0.71** |
| **Tst/Tn:** | | | **2.5** |
| **Tmax/Tn:** | | | **3** |
| **Tmin/Tn:** | | | **1.6** |
| **Ist/In:** | | | **6.6** |
| **Moment of Inertia (kg*m2):** | | | **0.177635** |

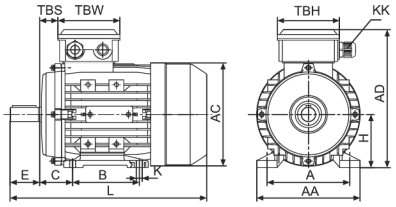
| Current (A) | | |
|---|---|---|
| 220V | 380V | 660V |
| **31** | **18** | **10.3** |

| Current (A) | | |
|---|---|---|
| 230V | 400V | 690V |
| **29.7** | **17.1** | **9.9** |

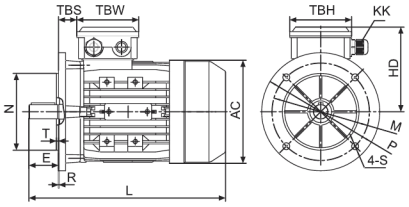
| Current (A) | | |
|---|---|---|
| 240V | 415V | 720V |
| **28.5** | **16.5** | **9.49** |

## MECHANICAL DATA

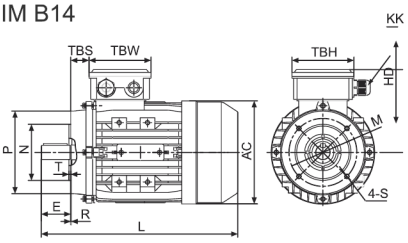
IM B3



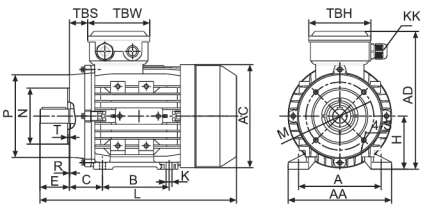

IM B5



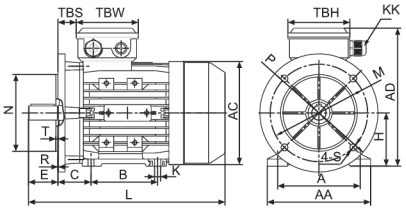

IM B14

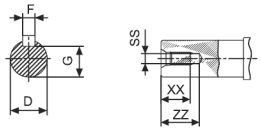



IM B34




IM B35




| Frame | Foot Mounting | | | | | Shaft | | | | | | | General | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H | A | B | C | K | D | E | F | G | SS | XX | ZZ | AA | AD | HD | AC | L | LCCL | KK | TBS | TBW | TBH |
| 160L | 160.0 | 254 | 210/254 | 108.0 | 15X19 | Ø42 | 110.0 | 12.0 | 37.0 | M16 | 36.0 | 45.0 | 290.0 | 384.0 | 224.0 | Ø325 | 640 | 697 | 2-M32X1.5 | 64.0 | 143.0 | 143.0 |