# 3F3A-80MB-2B14

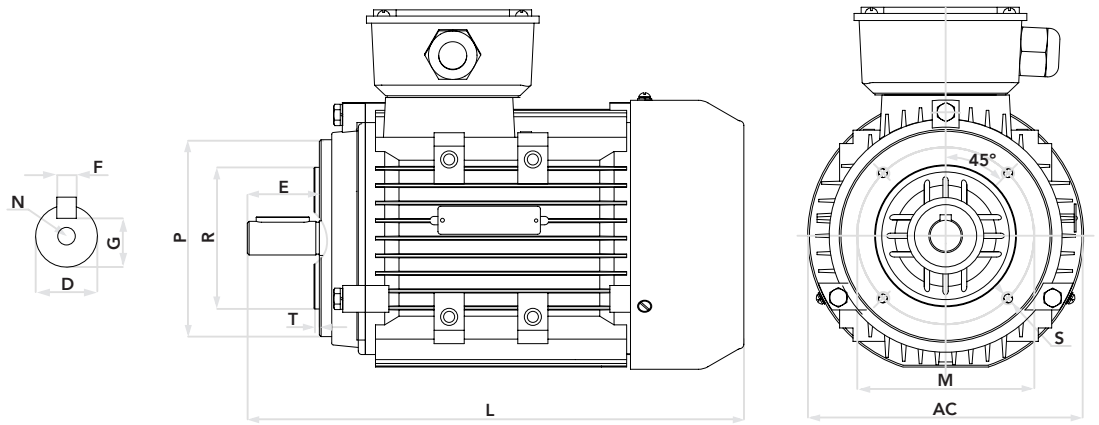
| MECHANICAL DATA | |
|---|---|
| Noise at 50Hz | 62 dB(A) |
| Moment of inertia | 0.00169 kgm² |
| Bearing DE | 6204ZZ |
| Bearing NDE | 6204ZZ |
| Bearing lifetime | 40000 h |
| Direction of rotation | bidirectional |
| Frame material | aluminum |
| Colour | RAL 7030 |
| Cooling method | IC411 |
| Ambient temperature | -20 / +40 °C |
| Altitude above sealevel | 1000 m |
| Output | 1.1KW |
| Speed | 2885 rpm |
| Ins. Class | F |
| Efficiency | 82,7% IE3 |
| Voltage | 400V |
| Connection | Y |
| F.L. Current | 2.31A |
| Power factor | 0,83 |
| Duty | S1 |
| Frequency | 50 Hz |
| IP | 55 |
| Weight | 12,5 kg |

| SPECIAL DESIGN |
|---|
| |
| |
| |
| |
| |

| ELECTRICAL TEST DATA | |
|---|---|
| Ambient temperature | 17 °C |
| Resistance of winding | 11,129 Ω |
| Three phase current unbalanced | 7,52 % |
| No load amps | 1,346 A |
| No load input | 165,5 W |
| Core loss (Pfe) | 39,36 W |
| Windage friction loss (Pfw) | 31,08 W |
| Stator winding loss (Pcu1) | 118,8 W |
| Rotor winding loss (Pcu2) | 38,24 W |
| Stray load loss (Ps) | 32,55 W |
| Locked rotor current | 19,91 A |
| Locked rotor current / Full load current | 8,62 |
| Full load torque | 3,67 Nm |
| Locked rotor input power at full load | 10915 W |
| Locked rotor torque | 13,19 Nm |
| Locked rotor torque / Full load torque | 3,59 |
| Full load input | 1360 W |
| Full load current | 2,331 A |
| Efficiency at 50% load | 78,77 % |
| Efficiency at 75% load | 81,69 % |
| Efficiency at 100% load | 80,86 % |
| Power factor at full load | 0,8423 |
| Full load slip | 3,182 % |
| Full load speed | 2904 rpm |
| Stator winding temperature rise | 58,38 K |
| Stator phase resistance at Ambient temperature of 95 °C | 14,573 Ω |
| Sound pressure level | 61 dB(A) |
| Vibration | 1 mm/s |
| Insulation resistance | 200 MΩ |
| Bearing temperature | 42 °C |

*Efficiency in compliance with IEC 60034-30 Edition 1.0 - 2008, IE3*
*Testing method IEC 60034-2-1 Edition 1.0 - 2007-09*

## DIMENSIONS 3F3A-80MB-2B14




| Frame size | Number of poles | D | E | F | G | M | R | P | S | T | AC | L | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80MB | 02 | 19 | 40 | 6 | 15.5 | 100 | 80 | 120 | M6 | 3.0 | 175 | 300 | M6 |

FELSTROM

3F3A-80MB-2B14



*Technical data is subject to change. All sizes in mm*