

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | | |
|--|---------------------------|---|--|----------------------------|---------|----------|
| Customer : | | | | | | |
| Product line | | : Saw Arbor Motor Standard Efficiency Three-Phase | | Product code : 15472746 | | |
| Frame | : 90L/MS | Locked rotor time | : 10s (cold) 6s (hot) | | | |
| Output | : 10 HP (7.5 kW) | Temperature rise | : 80 K | | | |
| Poles | : 4 | Duty cycle | : S6 | | | |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C | | | |
| Rated voltage | : 208-230/460 V | Altitude | : 1000 m.a.s.l. | | | |
| Rated current | : 32.5-29.4/14.7 A | Protection degree | : IP54 | | | |
| L. R. Amperes | : 276-250/125 A | Cooling method | : IC411 - TEFC | | | |
| LRC | : 8.5 | Mounting | : B3R(D) | | | |
| No load current | : 18.0-16.3/8.13 A | Rotation ¹ | : CCW | | | |
| Rated speed | : 1715 rpm | Noise level ² | : 55.0 dB(A) | | | |
| Slip | : 4.72 % | Starting method | : Direct On Line | | | |
| Rated torque | : 4.23 kgfm | Approx. weight ³ | : 82.3 kg | | | |
| Locked rotor torque | : 459 % | | | | | |
| Breakdown torque | : 450 % | | | | | |
| Insulation class | : F | | | | | |
| Service factor | : 1.15 | | | | | |
| Moment of inertia (J) | : 0.0168 kgm ² | | | | | |
| Design | : N | | | | | |
| Output | 50% | 75% | 100% | Foundation loads | | |
| Efficiency (%) | 84.5 | 85.5 | 85.5 | Max. traction : 434 kgf | | |
| Power Factor | 0.54 | 0.67 | 0.75 | Max. compression : 517 kgf | | |
| | | <u>Drive end</u> | | <u>Non drive end</u> | | |
| Bearing type | : | 6308 ZZ | | 6208 ZZ | | |
| Sealing | : | Without Bearing Seal | | Without Bearing Seal | | |
| Lubrication interval | : | - | | - | | |
| Lubricant amount | : | - | | - | | |
| Lubricant type | : | Mobil Polyrex EM | | | | |
| Notes | | | | | | |
| This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load. | | | These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1. | | | |
| Rev. | Changes Summary | | | Performed | Checked | Date |
| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |
| Date | 30/10/2024 | | | | 1 / 2 | |

LOAD PERFORMANCE CURVE

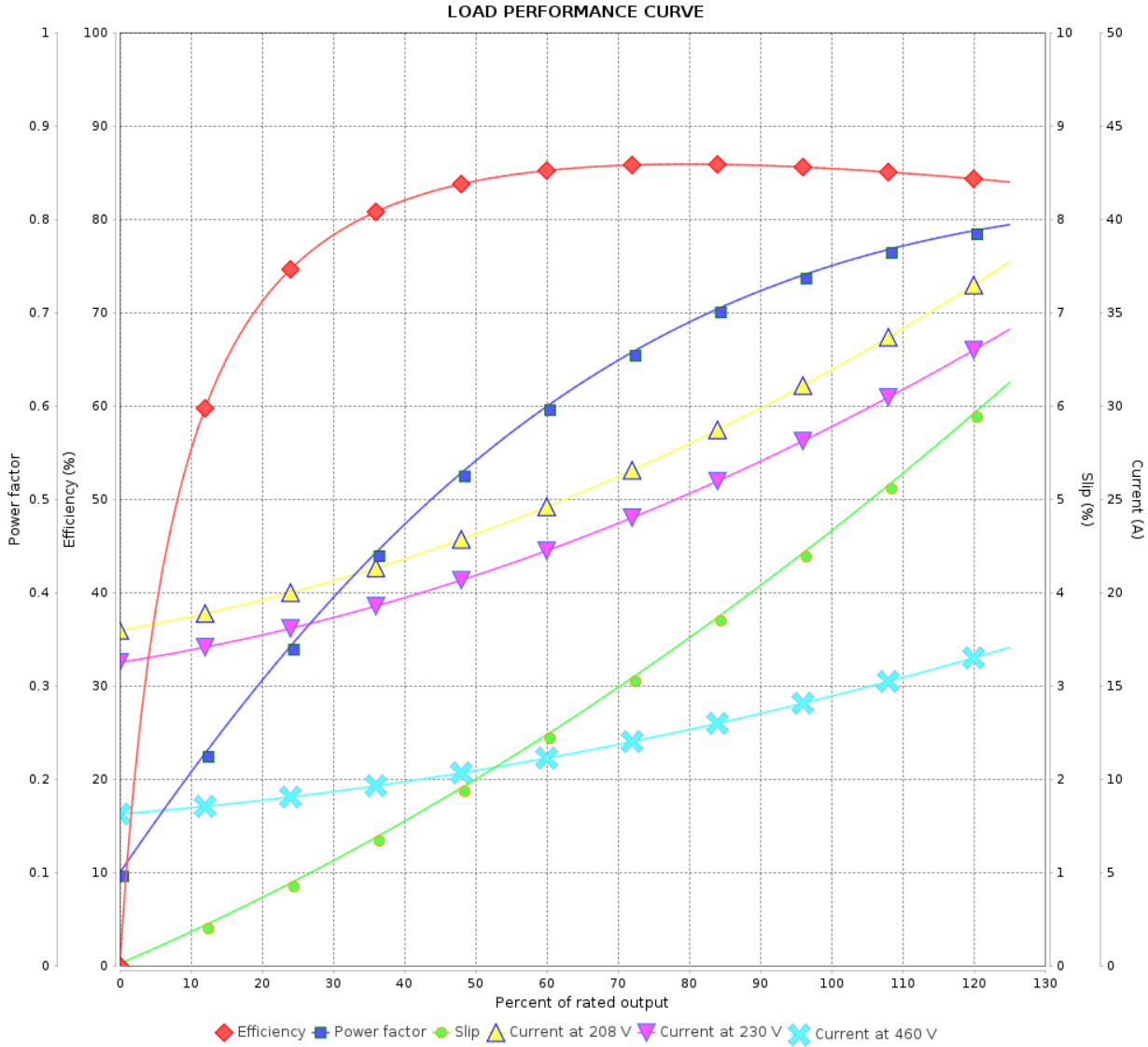
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard
Efficiency Three-Phase

Product code : 15472746



Performance : 208-230/460 V 60 Hz 4P

Rated current : 32.5-29.4/14.7 A
 LRC : 8.5
 Rated torque : 4.23 kgfm
 Locked rotor torque : 459 %
 Breakdown torque : 450 %
 Rated speed : 1715 rpm

Moment of inertia (J) : 0.0168 kgm²
 Duty cycle : S6
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : N

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------|----------|
| | | | | |
| Performed by | | | Page | Revision |
| Checked by | | | | |
| Date | | | | |

