

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | | |
|--|---|-----------------------------|------------------------|--|---------------|----------------|
| Customer : | | | | | | |
| Product line | : W22 NEMA Premium Efficiency Three-Phase | Product code : | 12445768 | | | |
| Frame | : 182/4T | Locked rotor time | : 41s (cold) 23s (hot) | | | |
| Output | : 3 HP (2.2 kW) | Temperature rise | : 80 K | | | |
| Poles | : 4 | Duty cycle | : Cont.(S1) | | | |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C | | | |
| Rated voltage | : 575 V | Altitude | : 1000 m.a.s.l. | | | |
| Rated current | : 3.13 A | Protection degree | : IP55 | | | |
| L. R. Amperes | : 25.3 A | Cooling method | : IC411 - TEFC | | | |
| LRC | : 8.1x(Code K) | Mounting | : F-1 | | | |
| No load current | : 1.60 A | Rotation ¹ | : Both (CW and CCW) | | | |
| Rated speed | : 1760 rpm | Noise level ² | : 56.0 dB(A) | | | |
| Slip | : 2.22 % | Starting method | : Direct On Line | | | |
| Rated torque | : 1.24 kgfm | Approx. weight ³ | : 38.6 kg | | | |
| Locked rotor torque | : 220 % | | | | | |
| Breakdown torque | : 330 % | | | | | |
| Insulation class | : F | | | | | |
| Service factor | : 1.25 | | | | | |
| Moment of inertia (J) | : 0.0143 kgm ² | | | | | |
| Design | : B | | | | | |
| Output | 50% | 75% | 100% | | | |
| Efficiency (%) | 87.5 | 88.5 | 89.5 | | | |
| Power Factor | 0.61 | 0.71 | 0.79 | | | |
| Foundation loads | | Max. traction : 66 kgf | | | | |
| | | Max. compression : 105 kgf | | | | |
| Losses at normative operating points (speed;torque), in percentage of rated output power | | | | | | |
| P1 (0,9;1,0) | P2 (0,5;1,0) | P3 (0,25;1,0) | P4 (0,9;0,5) | P5 (0,5;0,5) | P6 (0,5;0,25) | P7 (0,25;0,25) |
| 11.0 | 8.9 | 8.8 | 6.1 | 4.0 | 3.0 | 2.1 |
| | | <u>Drive end</u> | <u>Non drive end</u> | | | |
| Bearing type | : | 6207 ZZ | 6206 ZZ | | | |
| Sealing | : | V'Ring | V'Ring | | | |
| 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 | 01/02/2024 | | | | 1 / 2 | |

LOAD PERFORMANCE CURVE

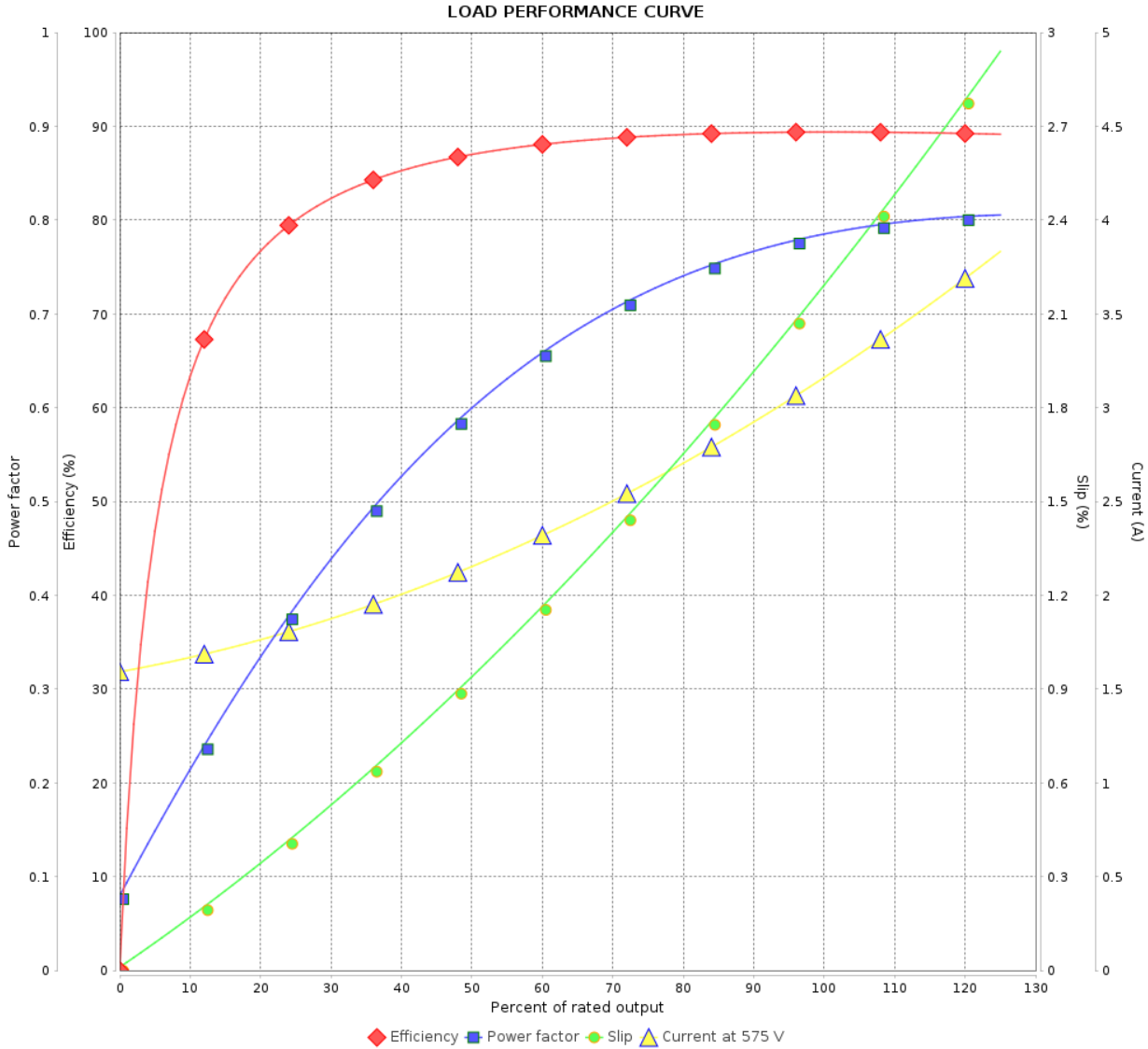
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12445768



Performance : 575 V 60 Hz 4P

Rated current : 3.13 A
 LRC : 8.1
 Rated torque : 1.24 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 330 %
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0143 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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