

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------|----------------|
| Customer : | | | | | | |
| Product line : W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase | | | Product code : 12598691 | | | |
| Frame | : 182/4JM | | | Locked rotor time | : 46s (cold) 26s (hot) | |
| Output | : 3 HP (2.2 kW) | | | Temperature rise | : 80 K | |
| Poles | : 2 | | | 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 | : 3.01 A | | | Protection degree | : IP55 | |
| L. R. Amperes | : 25.9 A | | | Cooling method | : IC411 - TEFC | |
| LRC | : 8.6x(Code K) | | | Mounting | : F-1 | |
| No load current | : 1.28 A | | | Rotation ¹ | : Both (CW and CCW) | |
| Rated speed | : 3515 rpm | | | Noise level ² | : 66.0 dB(A) | |
| Slip | : 2.36 % | | | Starting method | : Direct On Line | |
| Rated torque | : 0.619 kgfm | | | Approx. weight ³ | : 35.3 kg | |
| Locked rotor torque | : 250 % | | | | | |
| Breakdown torque | : 380 % | | | | | |
| Insulation class | : F | | | | | |
| Service factor | : 1.25 | | | | | |
| Moment of inertia (J) | : 0.0080 kgm ² | | | | | |
| Design | : B | | | | | |
| Output | 25% | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 81.1 | 82.0 | 86.0 | 86.5 | Max. traction | : 31 kgf |
| Power Factor | 0.44 | 0.70 | 0.80 | 0.85 | Max. compression | : 67 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) |
| 14.6 | 10.7 | 9.4 | 8.3 | 4.5 | 3.1 | 1.8 |
| | | <u>Drive end</u> | | <u>Non drive end</u> | | |
| Bearing type | : | 6307 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 | 13/01/2024 | | | | 1 / 2 | |

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

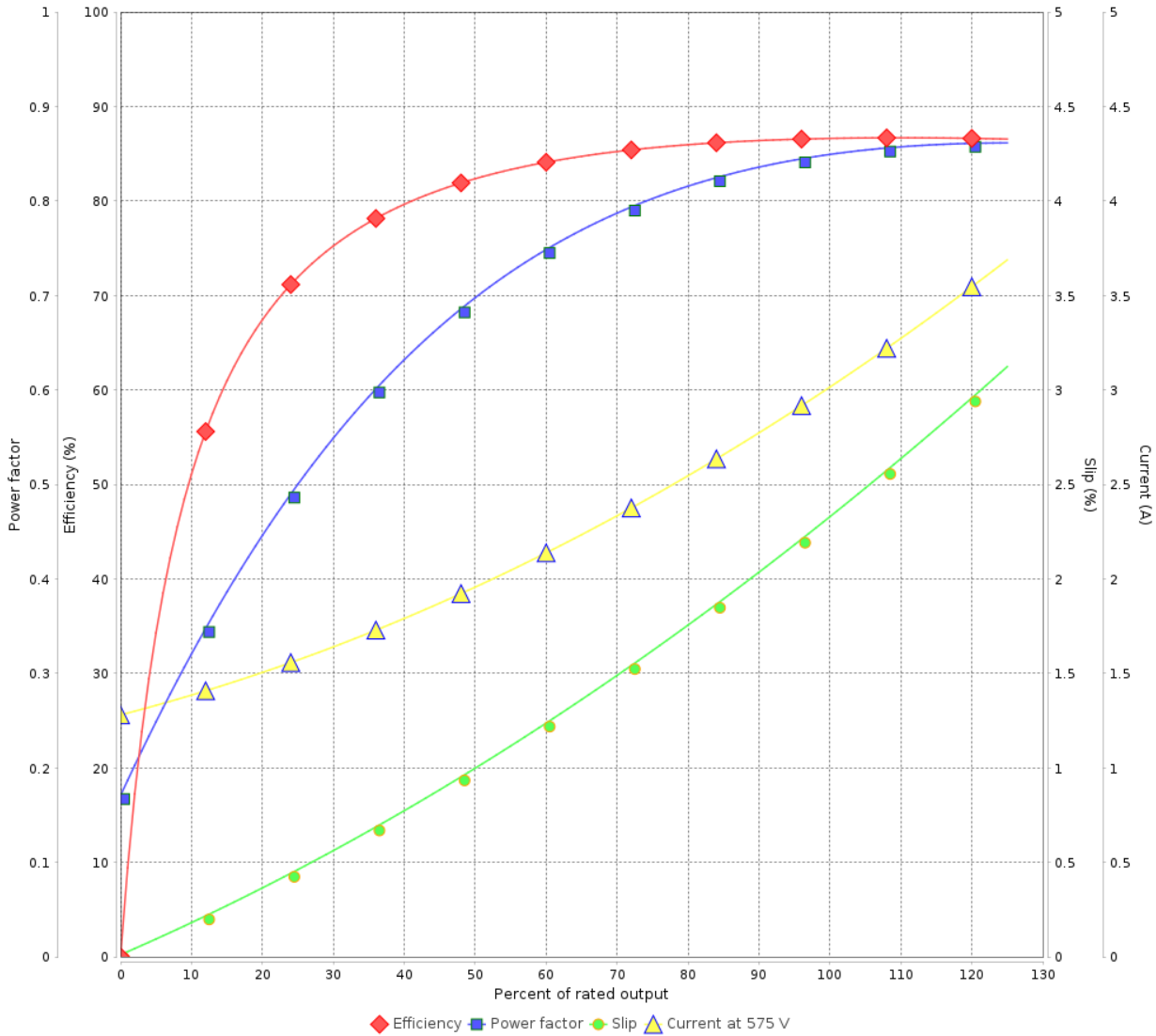


Customer : _____

Product line : W22 Close Coupled Pump JM NEMA
Premium Efficiency Three-Phase

Product code : 12598691

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

Rated current : 3.01 A
LRC : 8.6
Rated torque : 0.619 kgfm
Locked rotor torque : 250 %
Breakdown torque : 380 %
Rated speed : 3515 rpm

Moment of inertia (J) : 0.0080 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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