

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11456702

| | | | |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame | : 182/4TC | Locked rotor time | : 27s (cold) 15s (hot) |
| Output | : 5 HP (3.7 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 | : 5.19 A | Protection degree | : IP55 |
| L. R. Amperes | : 38.9 A | Cooling method | : IC411 - TEFC |
| LRC | : 7.5x(Code J) | Mounting | : F-1 |
| No load current | : 2.32 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1750 rpm | Noise level ² | : 56.0 dB(A) |
| Slip | : 2.78 % | Starting method | : Direct On Line |
| Rated torque | : 2.07 kgfm | Approx. weight ³ | : 45.1 kg |
| Locked rotor torque | : 229 % | | |
| Breakdown torque | : 290 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.0169 kgm ² | | |
| Design | : B | | |

| | | | | | | |
|----------------|-------|------|------|------|------------------|-----------|
| Output | 25% | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 0.000 | 88.5 | 89.5 | 89.5 | Max. traction | : 103 kgf |
| Power Factor | 0.00 | 0.62 | 0.74 | 0.80 | Max. compression | : 148 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) |
| 11.2 | 9.4 | 8.7 | 5.3 | 3.7 | 2.4 | 1.7 |

| | | | |
|----------------------|---|------------------|----------------------|
| | | <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 | 23/04/2024 | | | 1 / 2 | |

LOAD PERFORMANCE CURVE

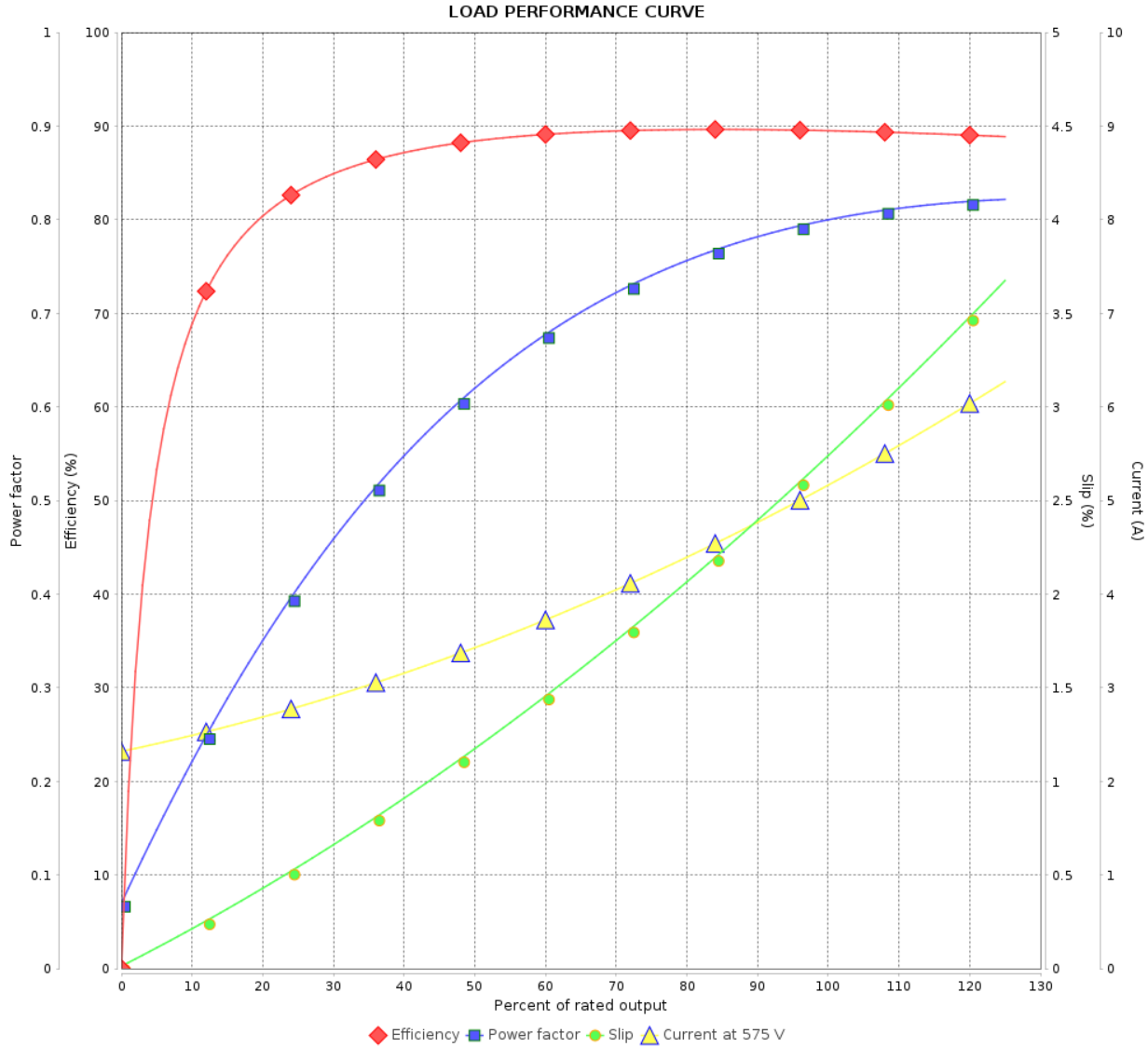
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Product code : 11456702



Performance : 575 V 60 Hz 4P

Rated current : 5.19 A
 LRC : 7.5
 Rated torque : 2.07 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 290 %
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0169 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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