

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | | |
|--|-----------------|---|--------------|--|---------------|----------------------|
| Customer : | | | | | | |
| Product line | | : W22 Brake Motor NEMA Premium Efficiency Three-Phase | | Product code : | | 14213926 |
| Frame | : | 284/6T | | Locked rotor time | : | 43s (cold) 24s (hot) |
| Output | : | 25 HP (18.5 kW) | | Temperature rise | : | 80 K |
| Frequency | : | 60 Hz | | Duty cycle | : | Cont.(S1) |
| Rated voltage | : | 575 V | | Ambient temperature | : | -20°C to +40°C |
| Poles | : | 4 | | Altitude | : | 1000 m.a.s.l. |
| Rated current | : | 23.6 A | | Protection degree | : | IP55 |
| | : | 6.2x(Code G) | | Cooling method | : | IC411 - TEFC |
| Rated speed | : | 1770 rpm | | Mounting | : | F-1 |
| Rated torque | : | 10.3 kgfm | | Rotation ¹ | : | Both (CW and CCW) |
| Insulation class | : | F | | Noise level ² | : | 63.0 dB(A) |
| Service factor | : | 1.25 | | Starting method | : | Direct On Line |
| Moment of inertia (J) | : | 0.2153 kgm ² | | Approx. weight ³ | : | 214 kg |
| Design | : | B | | | | |
| Output | 50% | 75% | 100% | Foundation loads | | |
| Efficiency (%) | 92.4 | 93.0 | 93.6 | Max. traction | : | 289 kgf |
| Power Factor | 0.70 | 0.80 | 0.84 | Max. compression | : | 502 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) |
| 6.8 | 5.8 | 5.3 | 3.1 | 2.2 | 1.4 | 1.0 |
| | | <u>Drive end</u> | | <u>Non drive end</u> | | |
| Bearing type | : | 6311 C3 | | 6211 C3 | | |
| Sealing | : | V'Ring | | Lip Seal | | |
| Lubrication interval | : | 20000 h | | 20000 h | | |
| Lubricant amount | : | 18 g | | 11 g | | |
| 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 | | | | | | |
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Customer : _____

Brake information

Voltage: 525-575 V
Brake Torque: 26.5 kgfm

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|--------------|-----------------|-----------|---------|----------|
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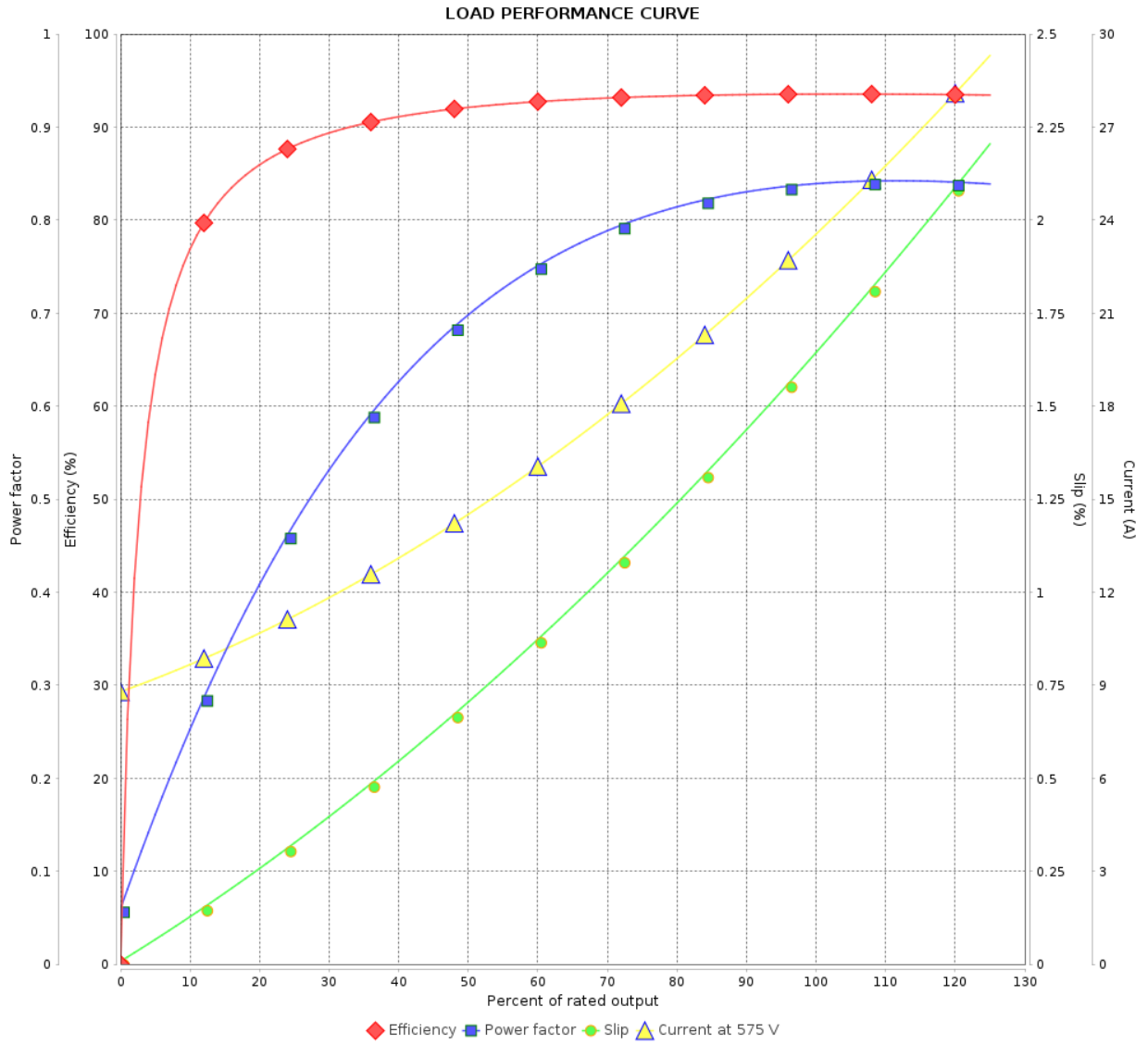
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 14213926



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