

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12196637

| | | | |
|-----------------------|-------------------------|-----------------------------|------------------------|
| Frame | : 444/5TSC | Locked rotor time | : 39s (cold) 22s (hot) |
| Output | : 150 HP (110 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 | : 130 A | Protection degree | : IP55 |
| L. R. Amperes | : 848 A | Cooling method | : IC411 - TEFC |
| LRC | : 6.5x(Code G) | Mounting | : F-1 |
| No load current | : 32.8 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 3570 rpm | Noise level ² | : 81.0 dB(A) |
| Slip | : 0.83 % | Starting method | : Direct On Line |
| Rated torque | : 30.5 kgfm | Approx. weight ³ | : 800 kg |
| Locked rotor torque | : 180 % | | |
| Breakdown torque | : 240 % | | |
| Insulation class | : F | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 1.65 kgm ² | | |
| Design | : B | | |

| | | | | | |
|----------------|------|------|------|------------------|------------|
| Output | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 94.1 | 95.0 | 95.0 | Max. traction | : 240 kgf |
| Power Factor | 0.83 | 0.88 | 0.89 | Max. compression | : 1040 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 5.3 | 3.5 | 2.9 | 3.3 | 1.7 | 1.3 | 0.6 |

| | | |
|----------------------|--------------------|----------------------|
| | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : 6314 C3 | : 6314 C3 |
| Sealing | : Viton Oil Seal | : Viton Oil Seal |
| Lubrication interval | : 4000 h | : 4000 h |
| Lubricant amount | : 27 g | : 27 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 |
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LOAD PERFORMANCE CURVE

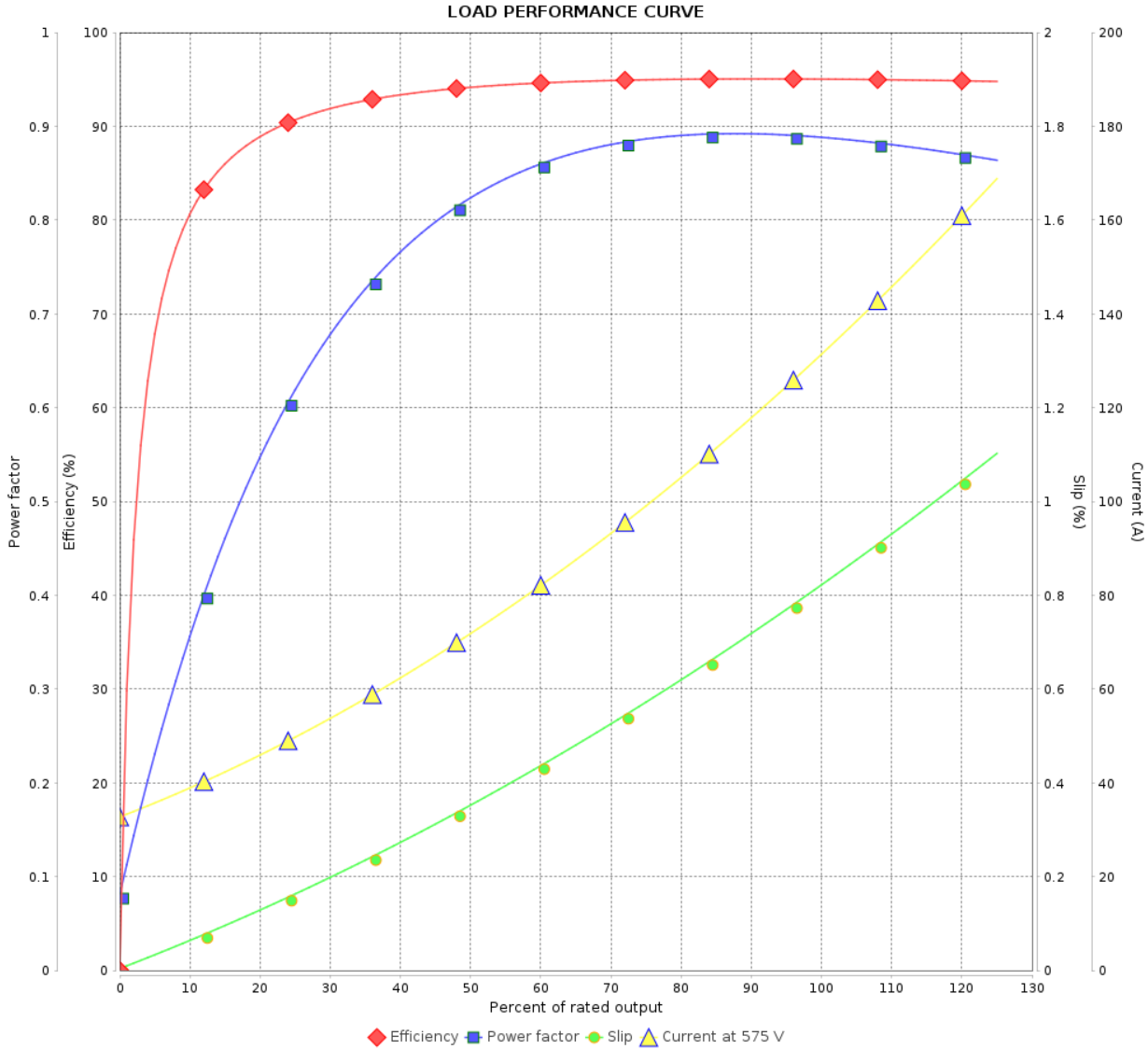
Three Phase Induction Motor - Squirrel Cage



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Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12196637



Performance : 575 V 60 Hz 2P

| | | | |
|---------------------|-------------|-----------------------|-------------------------|
| Rated current | : 130 A | Moment of inertia (J) | : 1.65 kgm ² |
| LRC | : 6.5 | Duty cycle | : Cont.(S1) |
| Rated torque | : 30.5 kgfm | Insulation class | : F |
| Locked rotor torque | : 180 % | Service factor | : 1.15 |
| Breakdown torque | : 240 % | Temperature rise | : 80 K |
| Rated speed | : 3570 rpm | Design | : B |

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| Checked by | | | | |
| Date | 18/03/2024 | | | |