

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11618407

| | | | |
|-----------------------|-------------------------|-----------------------------|------------------------|
| Frame | : 447/9TS | Locked rotor time | : 28s (cold) 16s (hot) |
| Output | : 300 HP (220 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 | : 264 A | Protection degree | : IP55 |
| L. R. Amperes | : 1716 A | Cooling method | : IC411 - TEFC |
| LRC | : 6.5x(Code G) | Mounting | : F-1 |
| No load current | : 84.0 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1780 rpm | Noise level ² | : 75.0 dB(A) |
| Slip | : 1.11 % | Starting method | : Direct On Line |
| Rated torque | : 122 kgfm | Approx. weight ³ | : 1217 kg |
| Locked rotor torque | : 250 % | | |
| Breakdown torque | : 250 % | | |
| Insulation class | : H | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 3.77 kgm ² | | |
| Design | : B | | |

| | | | | | |
|----------------|------|------|------|------------------|------------|
| Output | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 95.8 | 96.2 | 96.2 | Max. traction | : 2066 kgf |
| Power Factor | 0.77 | 0.84 | 0.87 | Max. compression | : 3283 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) |
| 4.5 | 3.3 | 2.7 | 2.5 | 1.5 | 1.1 | 0.6 |

| | | | |
|----------------------|---|------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6314 C3 | 6314 C3 |
| Sealing | : | WSeal | WSeal |
| Lubrication interval | : | 12000 h | 12000 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.

| | | | | |
|--------------|-----------------|-----------|---------|----------|
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Thermal protection

| ID | Application | Type | Quantity | Sensing Temperature |
|----|-------------|-----------------|-------------|---------------------|
| 1 | Winding | PT100 - 3 wires | 2 x Phase | - |
| 2 | DE bearing | PT100 - 3 wires | 1 x Bearing | - |
| 3 | NDE bearing | PT100 - 3 wires | 1 x Bearing | - |

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LOAD PERFORMANCE CURVE

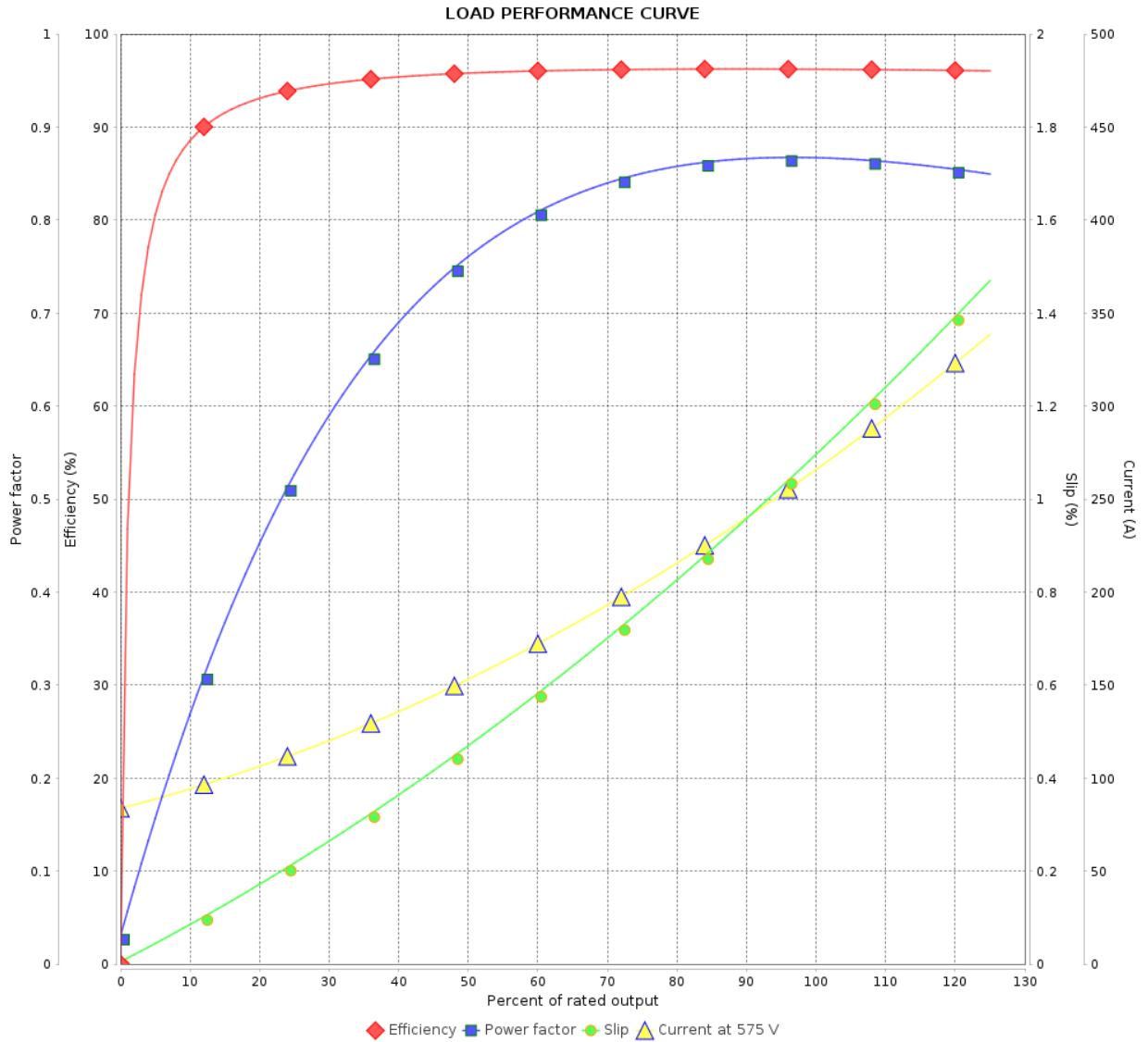
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Performance : 575 V 60 Hz 4P

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 LRC : 6.5
 Rated torque : 122 kgfm
 Locked rotor torque : 250 %
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 Rated speed : 1780 rpm

Moment of inertia (J) : 3.77 kgm²
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