

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | | |
|--|-------------------------|---|--|-----------------------------|---------|----------|
| Customer : | | | | | | |
| Product line | | : W21 Explosion Proof NEMA Premium Efficiency Three-Phase | | Product code : 12427742 | | |
| Frame | : 447T | Locked rotor time | : 25s (cold) 14s (hot) | | | |
| Output | : 200 HP (150 kW) | Temperature rise | : 80 K | | | |
| Poles | : 6 | 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 | : 199 A | Protection degree | : IP55 | | | |
| L. R. Amperes | : 1554 A | Cooling method | : IC411 - TEFC | | | |
| LRC | : 7.8x(Code J) | Mounting | : F-1 | | | |
| No load current | : 100 A | Rotation ¹ | : Both (CW and CCW) | | | |
| Rated speed | : 1190 rpm | Noise level ² | : 73.0 dB(A) | | | |
| Slip | : 0.83 % | Starting method | : Direct On Line | | | |
| Rated torque | : 122 kgfm | Approx. weight ³ | : 1210 kg | | | |
| Locked rotor torque | : 270 % | | | | | |
| Breakdown torque | : 280 % | | | | | |
| Insulation class | : F | | | | | |
| Service factor | : 1.15 | | | | | |
| Moment of inertia (J) | : 5.63 kgm ² | | | | | |
| Design | : B | | | | | |
| Output | 50% | 75% | 100% | Foundation loads | | |
| Efficiency (%) | 94.5 | 95.4 | 95.8 | Max. traction : 2382 kgf | | |
| Power Factor | 0.60 | 0.73 | 0.79 | Max. compression : 3592 kgf | | |
| | | <u>Drive end</u> | | <u>Non drive end</u> | | |
| Bearing type | : | 6319 C3 | | 6316 C3 | | |
| Sealing | : | Viton Oil Seal | | Viton Seal | | |
| Lubrication interval | : | 11094 h | | 12823 h | | |
| Lubricant amount | : | 45 g | | 34 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 : _____

Thermal protection

| ID | Application | Type | Quantity | Sensing Temperature |
|----|-------------|----------------------|-----------|---------------------|
| 1 | Winding | Thermostat - 2 wires | 1 x Phase | 155 °C |

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------|----------|
| Performed by | | | | |
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LOAD PERFORMANCE CURVE

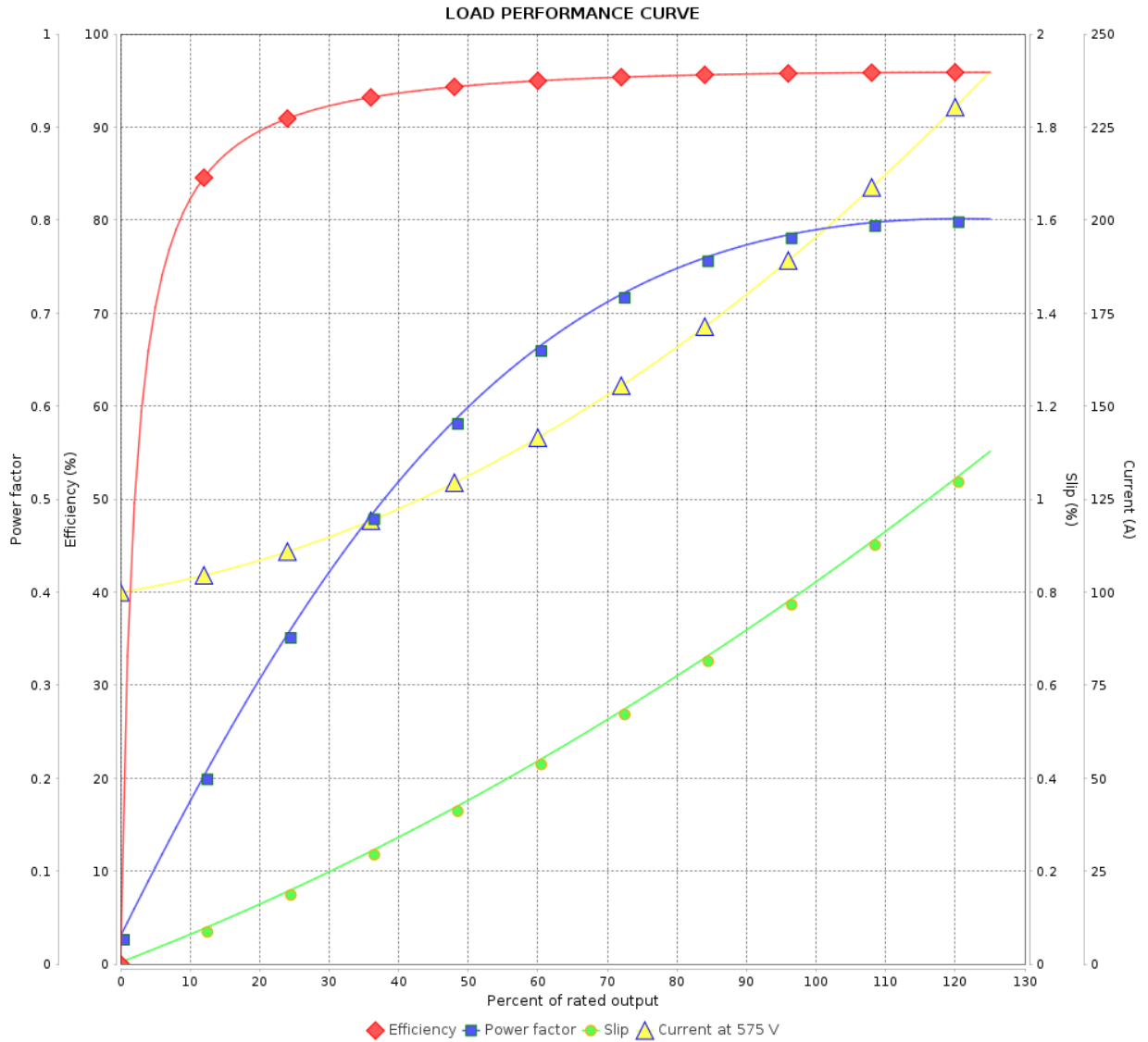
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W21 Explosion Proof NEMA Premium
Efficiency Three-Phase

Product code : 12427742



Performance : 575 V 60 Hz 6P

Rated current : 199 A
LRC : 7.8
Rated torque : 122 kgfm
Locked rotor torque : 270 %
Breakdown torque : 280 %
Rated speed : 1190 rpm

Moment of inertia (J) : 5.63 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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