

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | |
|--|---------------------------|---|--|----------------------------|----------|
| Customer : | | | | | |
| Product line | | : Close Coupled Pump Standard Efficiency Three-Phase | | Product code : 14966670 | |
| Frame | : 286JP | Locked rotor time | : 23s (cold) 13s (hot) | | |
| Output | : 30 HP (22 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 | : 29.2 A | Protection degree | : IP23 | | |
| L. R. Amperes | : 169 A | Cooling method | : IC01 - ODP | | |
| LRC | : 5.8x(Code G) | Mounting | : F-1 | | |
| No load current | : 12.4 A | Rotation ¹ | : Both (CW and CCW) | | |
| Rated speed | : 1760 rpm | Noise level ² | : 63.0 dB(A) | | |
| Slip | : 2.22 % | Starting method | : Direct On Line | | |
| Rated torque | : 12.4 kgfm | Approx. weight ³ | : 153 kg | | |
| Locked rotor torque | : 229 % | | | | |
| Breakdown torque | : 240 % | | | | |
| Insulation class | : F | | | | |
| Service factor | : 1.15 | | | | |
| Moment of inertia (J) | : 0.1121 kgm ² | | | | |
| Design | : B | | | | |
| Output | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 89.5 | 90.0 | 90.2 | Max. traction : 348 kgf | |
| Power Factor | 0.70 | 0.79 | 0.84 | Max. compression : 501 kgf | |
| | | <u>Drive end</u> | <u>Non drive end</u> | | |
| Bearing type | : | 6311 Z C3 | 6211 Z C3 | | |
| Sealing | : | Without Bearing Seal | Without Bearing 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 | | | | | |
| Checked by | | | | Page | Revision |
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LOAD PERFORMANCE CURVE

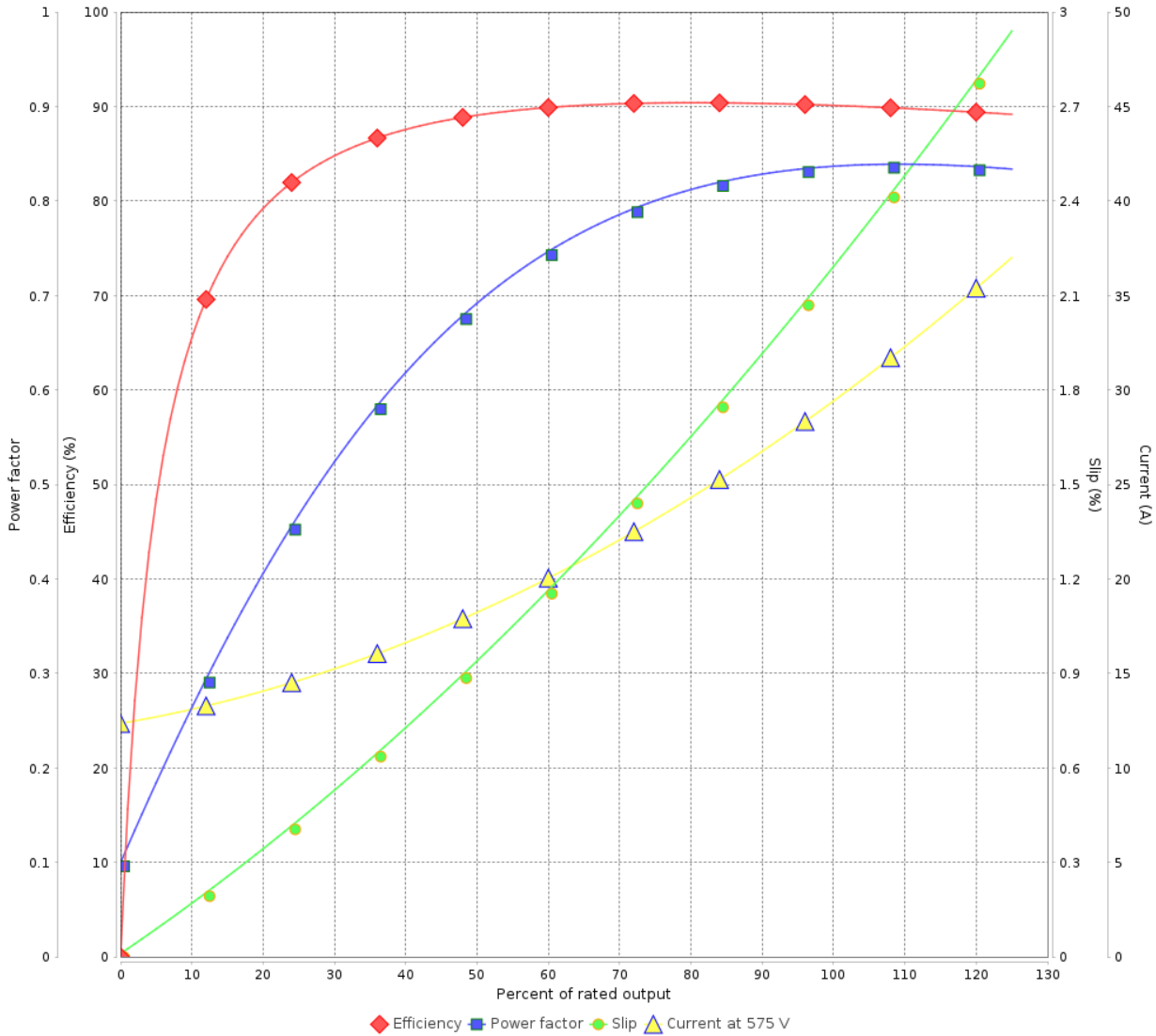
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Close Coupled Pump Standard Efficiency Three-Phase Product code : 14966670

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P

| | | | |
|---------------------|-------------|-----------------------|---------------------------|
| Rated current | : 29.2 A | Moment of inertia (J) | : 0.1121 kgm ² |
| LRC | : 5.8 | Duty cycle | : Cont.(S1) |
| Rated torque | : 12.4 kgfm | Insulation class | : F |
| Locked rotor torque | : 229 % | Service factor | : 1.15 |
| Breakdown torque | : 240 % | Temperature rise | : 80 K |
| Rated speed | : 1760 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
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