

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | |
|--|---|--|---------|----------|
| Customer | : | | | |
| Product line | : NEMA Premium Efficiency Three-Phase | Product code : 12675400 | | |
| Frame | : 143/5T | Cooling method : IC411 - TEFC | | |
| Insulation class | : F | Mounting : F-1 | | |
| Duty cycle | : Cont.(S1) | Rotation ¹ : Both (CW and CCW) | | |
| Ambient temperature | : -20°C to +40°C | Starting method : Direct On Line | | |
| Altitude | : 1000 m.a.s.l. | Approx. weight ³ : 17.4 kg | | |
| Protection degree | : IP55 | Moment of inertia (J) : 0.0046 kgm ² | | |
| Design | : B | | | |
| Output [HP] | | 1.5 | | |
| Poles | | 4 | | |
| Frequency [Hz] | | 60 | | |
| Rated voltage [V] | | 575 | | |
| Rated current [A] | | 1.62 | | |
| L. R. Amperes [A] | | 13.3 | | |
| LRC [A] | | 8.2x(Code K) | | |
| No load current [A] | | 0.867 | | |
| Rated speed [RPM] | | 1750 | | |
| Slip [%] | | 2.78 | | |
| Rated torque [kgfm] | | 0.622 | | |
| Locked rotor torque [%] | | 270 | | |
| Breakdown torque [%] | | 300 | | |
| Service factor | | 1.15 | | |
| Temperature rise | | 80 K | | |
| Locked rotor time | | 37s (cold) 21s (hot) | | |
| Noise level ² | | 52.0 dB(A) | | |
| Efficiency (%) | 25% | | | |
| | 50% | 85.5 | | |
| | 75% | 86.5 | | |
| | 100% | 86.5 | | |
| Power Factor | 25% | | | |
| | 50% | 0.59 | | |
| | 75% | 0.72 | | |
| | 100% | 0.79 | | |
| Bearing type | : <u>Drive end</u> 6205 ZZ <u>Non drive end</u> 6203 ZZ | Foundation loads | | |
| Sealing | : V'Ring V'Ring | Max. traction : 44 kgf | | |
| Lubrication interval | : - - | Max. compression : 62 kgf | | |
| Lubricant amount | : - - | | | |
| 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 |
| Date | 13/05/2022 | | 1 / 2 | |

LOAD PERFORMANCE CURVE

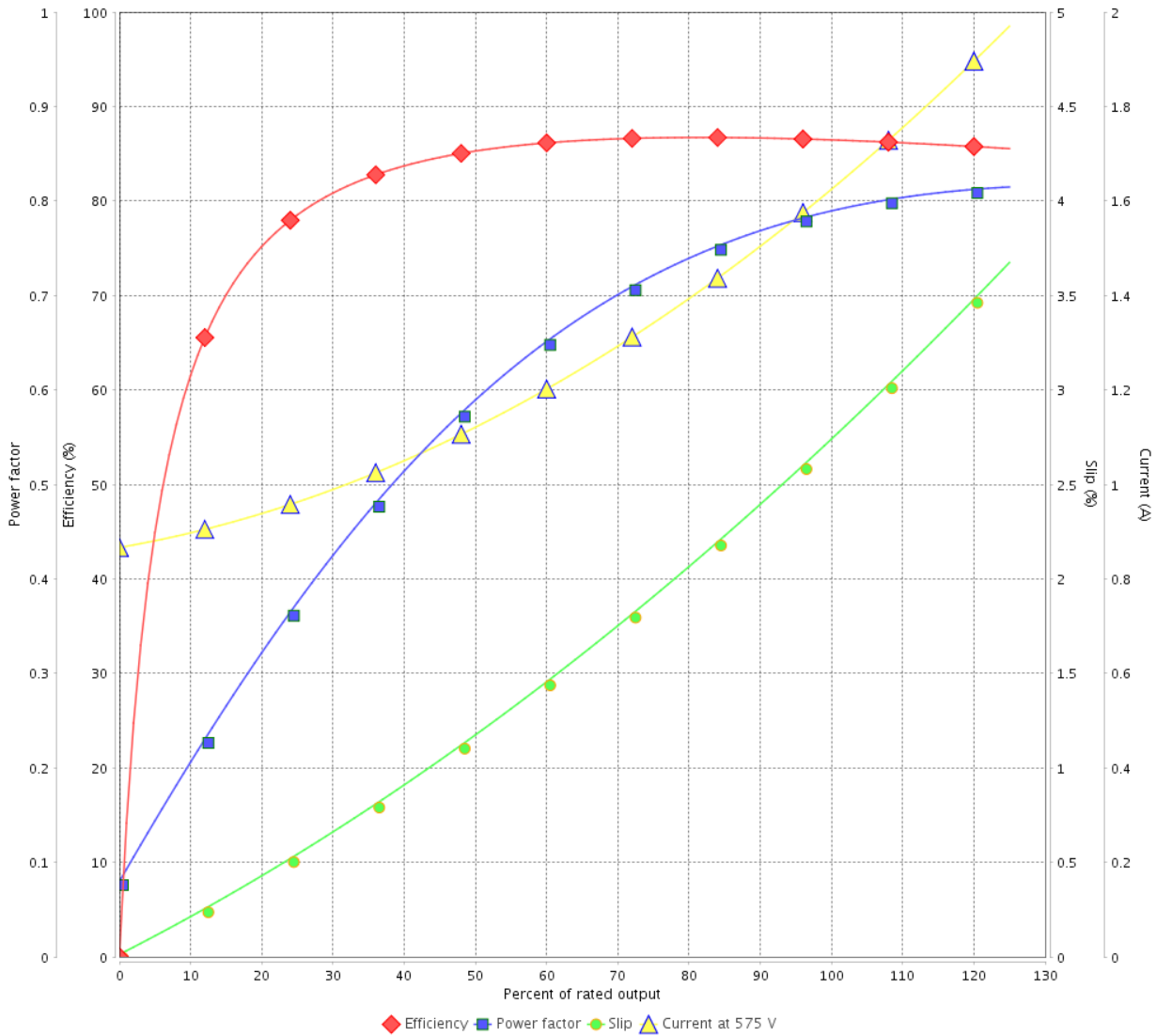
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12675400

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P

| | | | |
|---------------------|--------------|-----------------------|---------------------------|
| Rated current | : 1.62 A | Moment of inertia (J) | : 0.0046 kgm ² |
| LRC | : 8.2 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.622 kgfm | Insulation class | : F |
| Locked rotor torque | : 270 % | Service factor | : 1.15 |
| Breakdown torque | : 300 % | Temperature rise | : 80 K |
| Rated speed | : 1750 rpm | Design | : B |

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