

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | |
|--|---------------------------------------|-----------------------------|--|-----------|----------|
| Customer | : | | | | |
| Product line | : NEMA Premium Efficiency Three-Phase | Product code : | 12674734 | | |
| Frame | : 182/4TC | Cooling method | : IC01 - ODP | | |
| 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 | : 41.0 kg | | |
| Design | : B | Moment of inertia (J) | : 0.0169 kgm ² | | |
| Output [HP] | 5 | | | | |
| Poles | 4 | | | | |
| Frequency [Hz] | 60 | | | | |
| Rated voltage [V] | 575 | | | | |
| Rated current [A] | 5.06 | | | | |
| L. R. Amperes [A] | 36.5 | | | | |
| LRC [A] | 7.2x(Code J) | | | | |
| No load current [A] | 2.52 | | | | |
| Rated speed [RPM] | 1760 | | | | |
| Slip [%] | 2.22 | | | | |
| Rated torque [kgfm] | 2.06 | | | | |
| Locked rotor torque [%] | 200 | | | | |
| Breakdown torque [%] | 310 | | | | |
| Service factor | 1.15 | | | | |
| Temperature rise | 80 K | | | | |
| Locked rotor time | 21s (cold) 12s (hot) | | | | |
| Noise level ² | 55.0 dB(A) | | | | |
| Efficiency (%) | 25% | 87.5 | | | |
| | 50% | 88.5 | | | |
| | 75% | 88.5 | | | |
| | 100% | 89.5 | | | |
| Power Factor | 25% | 0.38 | | | |
| | 50% | 0.63 | | | |
| | 75% | 0.76 | | | |
| | 100% | 0.82 | | | |
| Bearing type | : Drive end | Non drive end | Foundation loads | | |
| Sealing | : 6206 ZZ | 6205 ZZ | Max. traction | : 113 kgf | |
| Lubrication interval | : Without | Without | Max. compression | : 154 kgf | |
| Lubricant amount | : Bearing Seal | Bearing Seal | | | |
| Lubricant type | : - | - | | | |
| 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

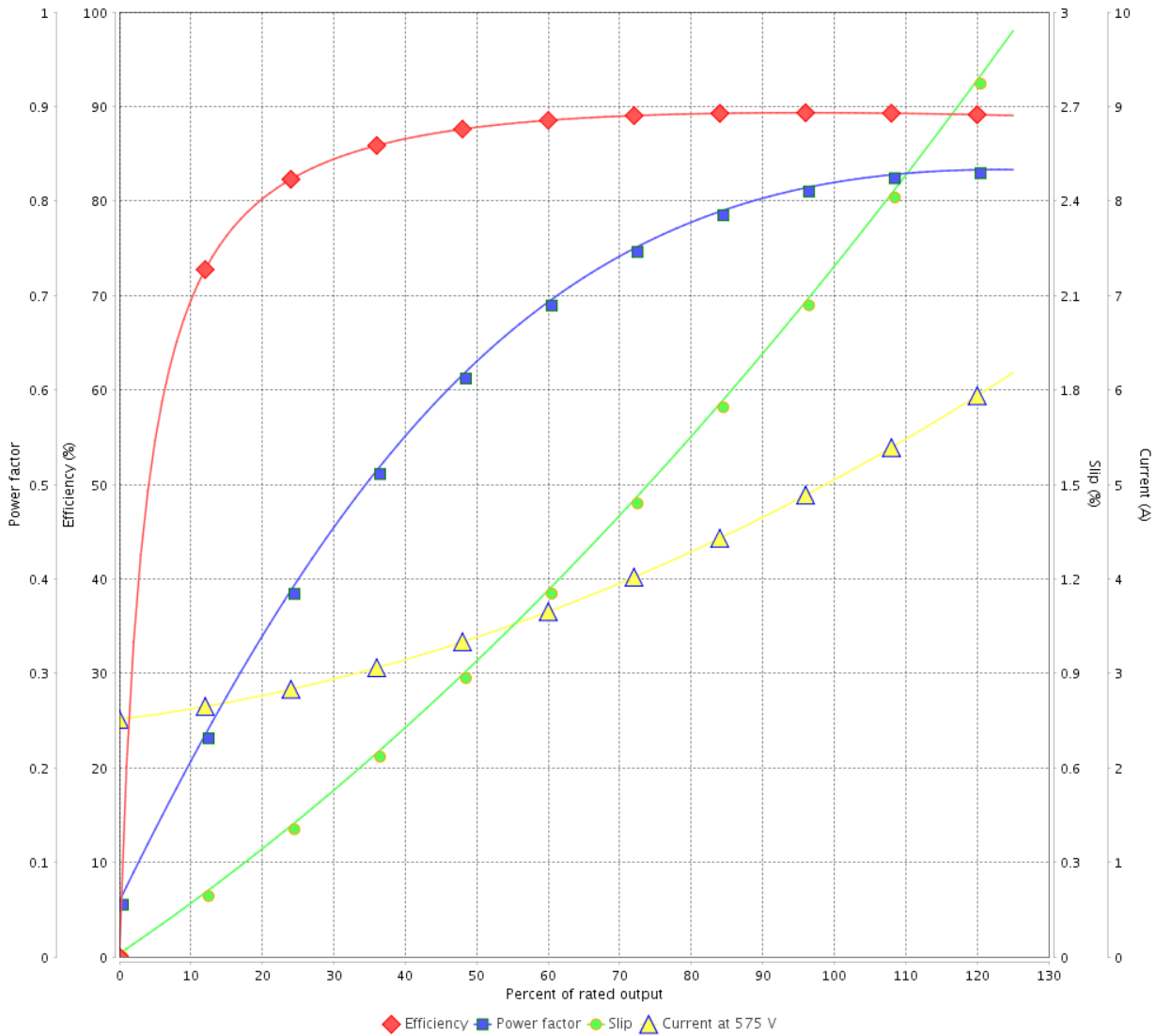
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12674734

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P

| | | | |
|---------------------|-------------|-----------------------|---------------------------|
| Rated current | : 5.06 A | Moment of inertia (J) | : 0.0169 kgm ² |
| LRC | : 7.2 | Duty cycle | : Cont.(S1) |
| Rated torque | : 2.06 kgfm | Insulation class | : F |
| Locked rotor torque | : 200 % | Service factor | : 1.15 |
| Breakdown torque | : 310 % | Temperature rise | : 80 K |
| Rated speed | : 1760 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------|----------|
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| Checked by | | | 2 / 2 | |
| Date | 13/05/2022 | | | |