

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | |
|---|---------------------------|--|---|-------------------------|----------|
| Customer : | | | | | |
| Product line | | : W22 IEEE 841 NEMA Premium Efficiency Three-Phase | | Product code : 14139257 | |
| Frame | : 143TC | | Locked rotor time | : 32s (cold) 18s (hot) | |
| Output | : 0.5 HP (0.37 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 | : 0.844 A | | Protection degree | : IP55 | |
| L. R. Amperes | : 9.71 A | | Cooling method | : IC411 - TEFC | |
| LRC | : 11.5x(Code T) | | Mounting | : F-1 | |
| No load current | : 0.752 A | | Rotation ¹ | : Both (CW and CCW) | |
| Rated speed | : 1780 rpm | | Noise level ² | : 51.0 dB(A) | |
| Slip | : 1.11 % | | Starting method | : Direct On Line | |
| Rated torque | : 0.204 kgfm | | Approx. weight ³ | : 23.0 kg | |
| Locked rotor torque | : 645 % | | | | |
| Breakdown torque | : 705 % | | | | |
| Insulation class | : F | | | | |
| Service factor | : 1.25 | | | | |
| Moment of inertia (J) | : 0.0049 kgm ² | | | | |
| Output | 25% | 50% | 75% | 100% | |
| Efficiency (%) | 0.000 | 68.7 | 76.0 | 80.0 | |
| Power Factor | 0.00 | 0.35 | 0.46 | 0.55 | |
| Foundation loads | | | | | |
| Max. traction : 29 kgf | | | | | |
| Max. compression : 52 kgf | | | | | |
| | | <u>Drive end</u> | <u>Non drive end</u> | | |
| Bearing type | : | 6205 C3 | 6204 C3 | | |
| Sealing | : | Inpro/Seal | Inpro/Seal | | |
| Lubrication interval | : | 20000 h | 20000 h | | |
| Lubricant amount | : | 4 g | 4 g | | |
| Lubricant type | : | Mobil Polyrex EM | | | |
| Notes | | | | | |
| <p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p> | | | <p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p> | | |
| Rev. | Changes Summary | | Performed | Checked | Date |
| Performed by | | | | | |
| Checked by | | | | | |
| Date | 01/07/2023 | | | Page | Revision |
| | | | | 1 / 2 | |

LOAD PERFORMANCE CURVE

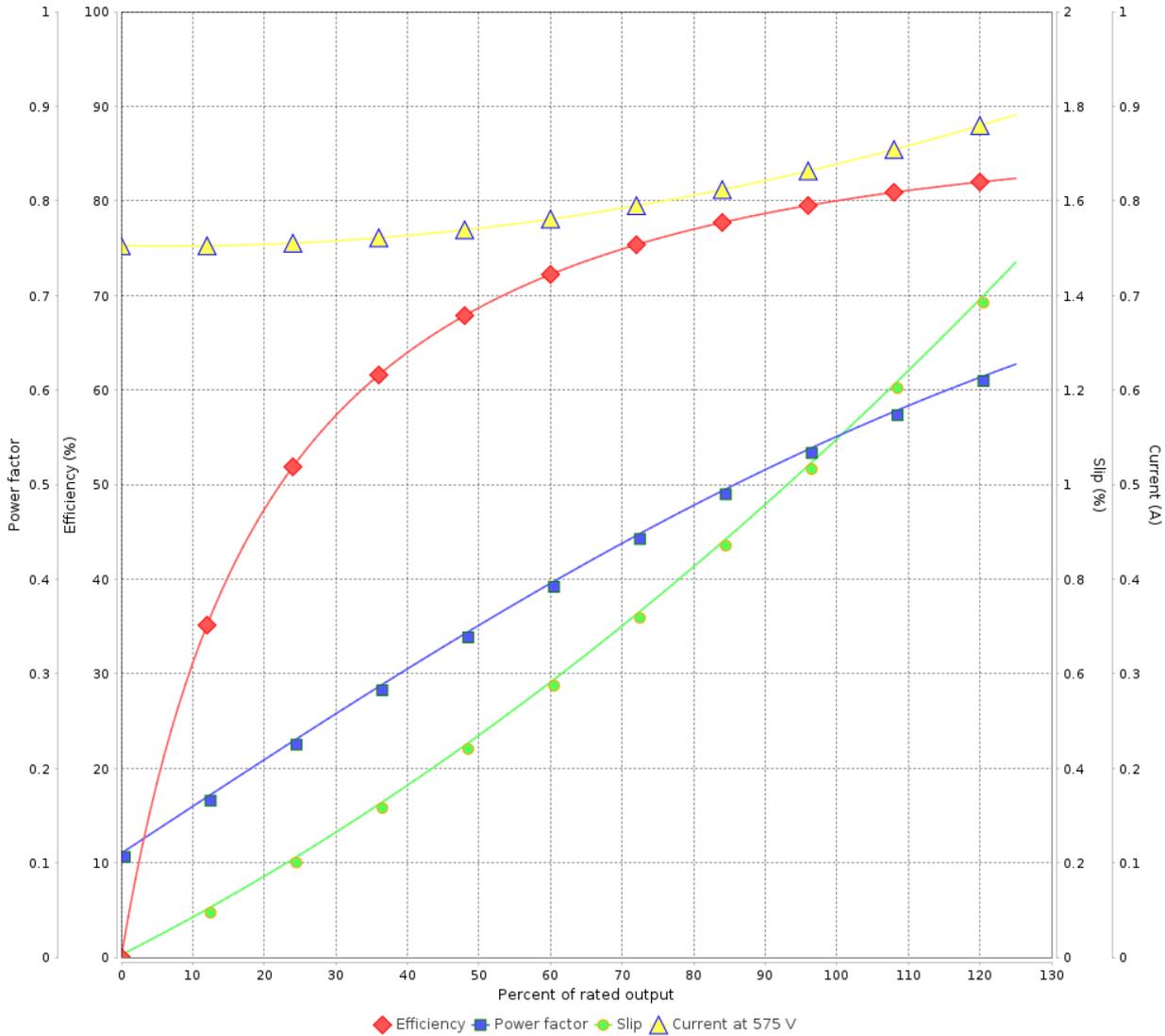
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 14139257

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P

| | | | |
|---------------------|--------------|-----------------------|---------------------------|
| Rated current | : 0.844 A | Moment of inertia (J) | : 0.0049 kgm ² |
| LRC | : 11.5 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.204 kgfm | Insulation class | : F |
| Locked rotor torque | : 645 % | Service factor | : 1.25 |
| Breakdown torque | : 705 % | Temperature rise | : 80 K |
| Rated speed | : 1780 rpm | | |

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------------|----------|
| | | | | |
| Performed by | | | Page 2 / 2 | Revision |
| Checked by | | | | |
| Date | 01/07/2023 | | | |