# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12447099

| | | | |
|---|---|---|---|
| Frame | : 284/6TC | Locked rotor time | : 43s (cold) 24s (hot) |
| Output | : 25 HP (18.5 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 | : 23.6 A | Protection degree | : IP55 |
| L. R. Amperes | : 146 A | Cooling method | : IC411 - TEFC |
| LRC | : 6.2x(Code G) | Mounting | : F-1 |
| No load current | : 8.80 A | Rotation[1] | : Both (CW and CCW) |
| Rated speed | : 1770 rpm | Noise level[2] | : 63.0 dB(A) |
| Slip | : 1.67 % | Vibration | : A |
| Rated torque | : 10 kgfm | Starting method | : Direct On Line |
| Locked rotor torque | : 240 % | Approx. weight[3] | : 176 kg |
| Breakdown torque | : 270 % | | : 203A (ISO 12944 - C3) |
| Insulation class | : F | | : RAL 5009 |
| Service factor | : 1.25 | Design | : B |
| Moment of inertia (J) | : 0.2153 kgm² | | |

| Output | 50% | 75% | 100% |
|---|---|---|---|
| Efficiency (%) | 92.4 | 93.0 | 93.6 |
| Power Factor | 0.70 | 0.80 | 0.84 |

Foundation loads

Max. traction : 304 kgf

Max. compression : 487 kgf

Losses at normative operating points (speed;torque), in percentage of rated output power

| P1 (0,9;1,0) | P2 (0,5;1,0) | P3 (0,25;1,0) | P4 (0,9;0,5) | P5 (0,5;0,5) | P6 (0,5;0,25) | P7 (0,25;0,25) |
|---|---|---|---|---|---|---|
| 6.8 | 5.8 | 5.3 | 3.1 | 2.2 | 1.4 | 1.0 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6311 C3 | 6211 C3 |
| Sealing | : | V'Ring | V'Ring |
| 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 |
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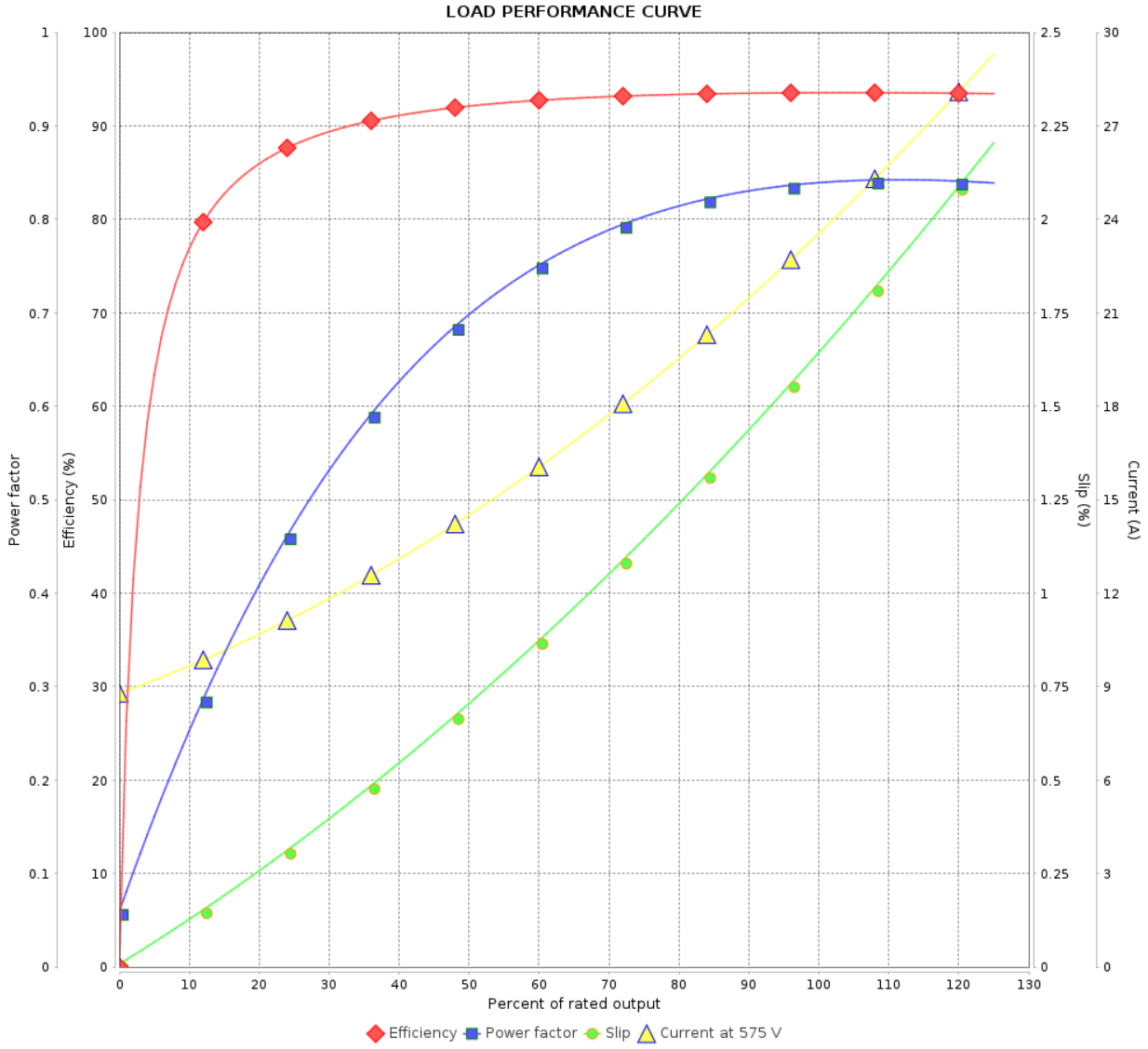
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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |

| | | | |
|---|---|---|---|
| Product line | : W22 NEMA Premium Efficiency Three-Phase | Product code : | 12447099 |




| | |
|---|---|
| Performance | : 575 V 60 Hz 4P |

| | | | |
|---|---|---|---|
| Rated current | : 23.6 A | Moment of inertia (J) | : 0.2153 kgm² |
| LRC | : 6.2 | Duty cycle | : Cont.(S1) |
| Rated torque | : 10 kgfm | Insulation class | : F |
| Locked rotor torque | : 240 % | Service factor | : 1.25 |
| Breakdown torque | : 270 % | Temperature rise | : 80 K |
| Rated speed | : 1770 rpm | Design | : B |

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