

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11991000

| | | | |
|-----------------------|---------------------------|-----------------------------|-------------------------|
| Frame | : 213/5TC | Locked rotor time | : 102s (cold) 57s (hot) |
| Output | : 5 HP (3.7 kW) | Temperature rise | : 80 K |
| Poles | : 6 | 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 | : 5.46 A | Protection degree | : IP55 |
| L. R. Amperes | : 37.2 A | Cooling method | : IC411 - TEFC |
| LRC | : 6.8x(Code J) | Mounting | : F-1 |
| No load current | : 2.76 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1170 rpm | Noise level ² | : 55.0 dB(A) |
| Slip | : 2.50 % | Starting method | : Direct On Line |
| Rated torque | : 3.10 kgfm | Approx. weight ³ | : 78.7 kg |
| Locked rotor torque | : 170 % | | |
| Breakdown torque | : 260 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.0620 kgm ² | | |
| Design | : B | | |

| | | | | | |
|----------------|------|------|------|------------------|-----------|
| Output | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 88.5 | 89.5 | 89.5 | Max. traction | : 110 kgf |
| Power Factor | 0.58 | 0.70 | 0.76 | Max. compression | : 188 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 11.1 | 9.1 | 8.8 | 5.8 | 4.0 | 2.9 | 2.1 |

| | | | |
|----------------------|---|------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6308 ZZ | 6207 ZZ |
| Sealing | : | V'Ring | V'Ring |
| Lubrication interval | : | - | - |
| Lubricant amount | : | - | - |
| Lubricant type | : | 00088 | |

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 | | Page Revision 1 / 2 | | |
| Checked by | | | | |
| Date | 14/11/2025 | | | |

LOAD PERFORMANCE CURVE

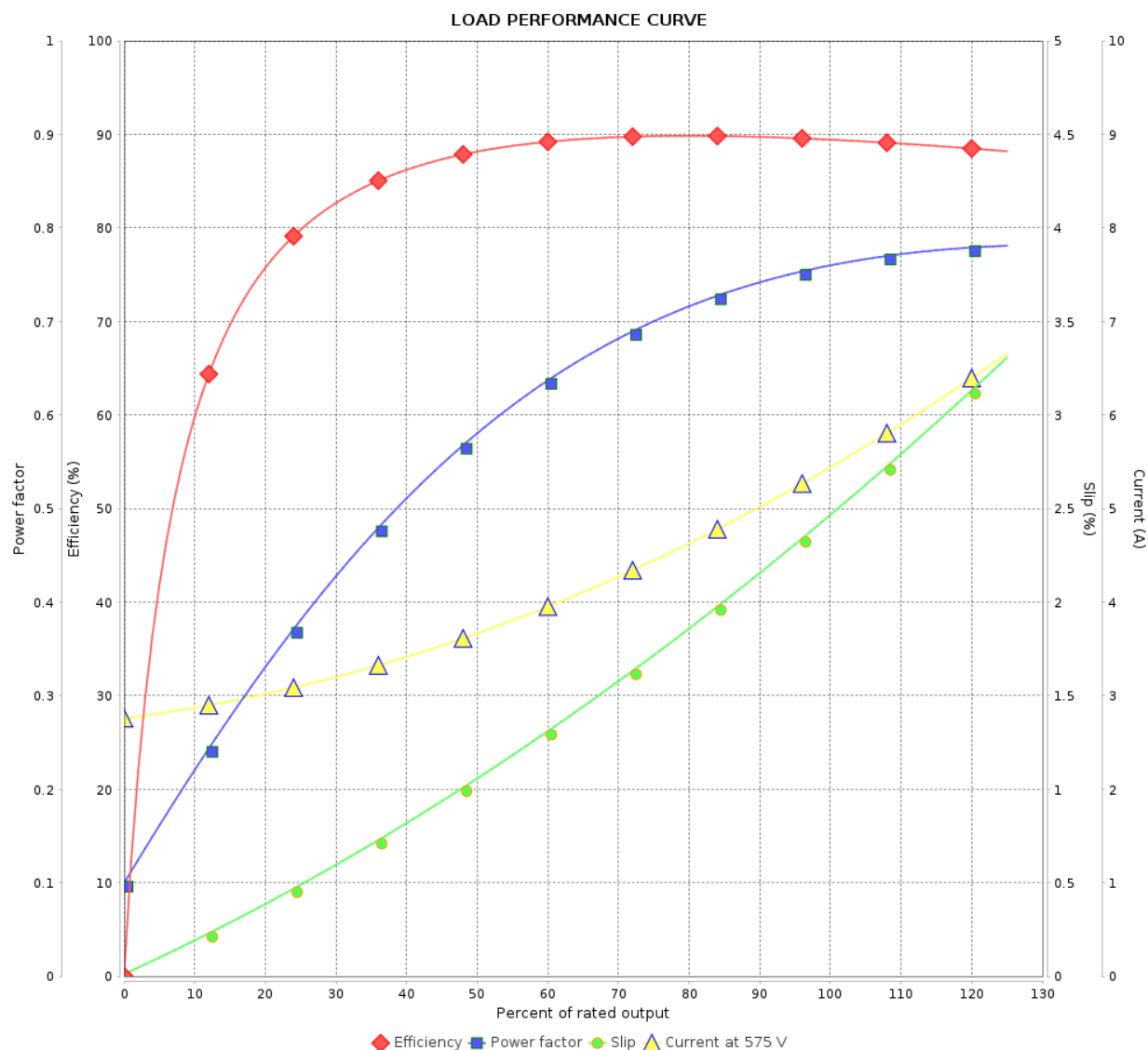
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11991000



Performance : 575 V 60 Hz 6P

Rated current : 5.46 A
LRC : 6.8
Rated torque : 3.10 kgfm
Locked rotor torque : 170 %
Breakdown torque : 260 %
Rated speed : 1170 rpm

Moment of inertia (J) : 0.0620 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

| Rev. | Changes Summary | Performed | Checked | Date |
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| Performed by | | Page 2 / 2Revision | | |
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