

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase

Product code : 14349730

| | | | |
|-----------------------|---------------------------|-----------------------------|-----------------------|
| Frame | : 213/5TD | Locked rotor time | : 10s (cold) 6s (hot) |
| Output | : 5 HP (3.7 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 208-230 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 23.5-21.3 A | Protection degree | : IP55 |
| L. R. Amperes | : 172-155 A | Cooling method | : IC411 - TEFC |
| LRC | : 7.3x(Code J) | Mounting | : F-1 |
| No load current | : 7.59-8.80 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1750 rpm | Noise level ² | : 63.0 dB(A) |
| Slip | : 2.78 % | Starting method | : Direct On Line |
| Rated torque | : 2.07 kgfm | Approx. weight ³ | : 70.5 kg |
| Locked rotor torque | : 370 % | | |
| Breakdown torque | : 250 % | | |
| Insulation class | : F | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 0.0300 kgm ² | | |

| | | | | | |
|----------------|------|------|------|------------------|-----------|
| Output | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 71.0 | 77.9 | 80.5 | Max. traction | : 60 kgf |
| Power Factor | 0.87 | 0.92 | 0.94 | Max. compression | : 131 kgf |

| | | | |
|----------------------|---|------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6308 ZZ | 6206 ZZ |
| Sealing | : | V'Ring | V'Ring |
| Lubrication interval | : | - | - |
| 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 | | Page 1 / 2 Revision | | |
| Checked by | | | | |
| Date | 15/01/2024 | | | |

LOAD PERFORMANCE CURVE

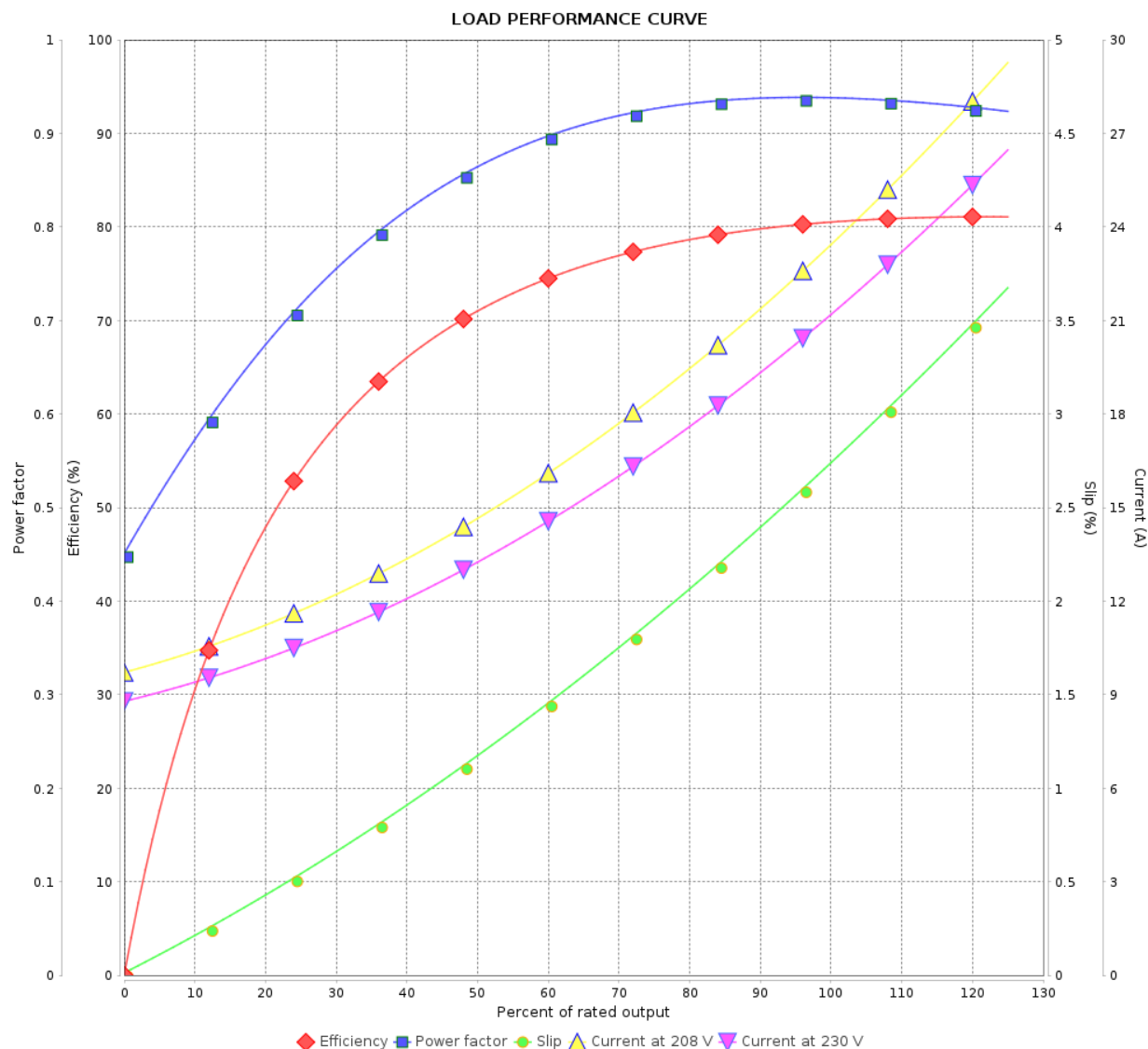
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase

Product code : 14349730



Performance : 208-230 V 60 Hz 4P

Rated current : 23.5-21.3 A
LRC : 7.3
Rated torque : 2.07 kgfm
Locked rotor torque : 370 %
Breakdown torque : 250 %
Rated speed : 1750 rpm

Moment of inertia (J) : 0.0300 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor :
Temperature rise : 80 K

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