

DATA SHEET



Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Single-Phase

Product code : 14145111

Frame : 182/4TC
 Output : 5 HP (3.7 kW)
 Poles : 4
 Frequency : 60 Hz
 Rated voltage : 208-230/460 V
 Rated current : 23.0-21.4/10.7 A
 L. R. Amperes : 150-139/69.5 A
 LRC : 6.5x(Code H)
 No load current : 6.90-8.00/4.00 A
 Rated speed : 1730 rpm
 Slip : 3.89 %
 Rated torque : 2.10 kgfm
 Locked rotor torque : 330 %
 Breakdown torque : 235 %
 Insulation class : F
 Service factor : 1.15
 Moment of inertia (J) : 0.0184 kgm²

Locked rotor time : 12s (cold) 7s (hot)
 Temperature rise : 80 K
 Duty cycle : Cont.(S1)
 Ambient temperature : -20°C to +40°C
 Altitude : 1000 m.a.s.l.
 Protection degree : IP55
 Cooling method : IC411 - TEFC
 Mounting : F-1
 Rotation¹ : Both (CW and CCW)
 Noise level² : 60.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 55.6 kg

| | | | |
|----------------|------|------|------|
| Output | 50% | 75% | 100% |
| Efficiency (%) | 72.5 | 78.5 | 80.0 |
| Power Factor | 0.89 | 0.93 | 0.94 |

Foundation loads
 Max. traction : 75 kgf
 Max. compression : 131 kgf

| | Drive end | Non drive end |
|----------------------|------------------|---------------|
| Bearing type | 6207 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 | | Revision |
| Checked by | | 1 / 2 | | |
| Date | 15/01/2024 | | | |

LOAD PERFORMANCE CURVE

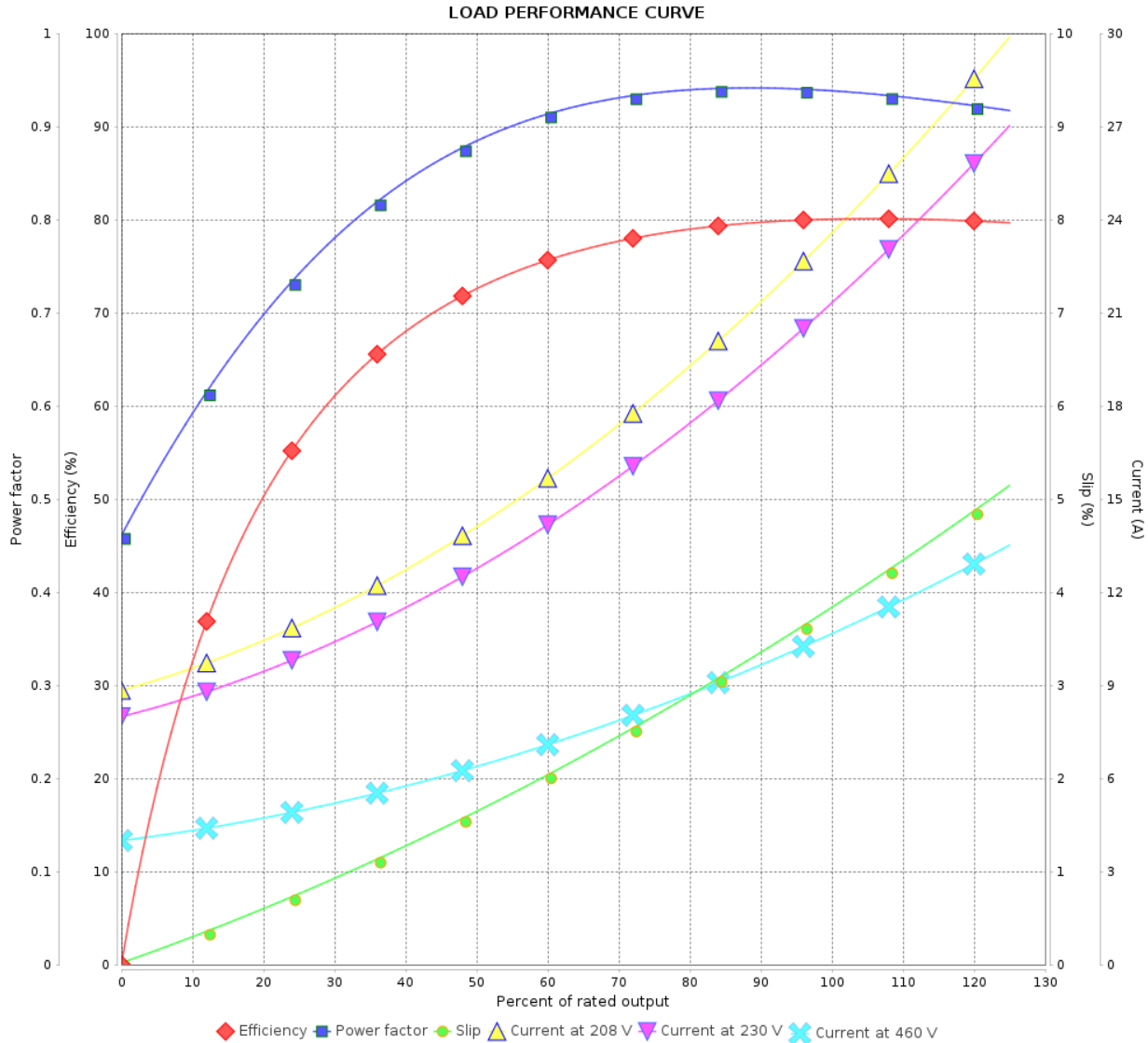
Single Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 Single-Phase

Product code : 14145111



Performance : 208-230/460 V 60 Hz 4P

Rated current : 23.0-21.4/10.7 A
 LRC : 6.5
 Rated torque : 2.10 kgfm
 Locked rotor torque : 330 %
 Breakdown torque : 235 %
 Rated speed : 1730 rpm

Moment of inertia (J) : 0.0184 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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