

DATA SHEET



Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Single-Phase

Product code : 14171841

Frame : 213/5TZ
 Output : 7.5 HP (5.5 kW)
 Poles : 4
 Frequency : 60 Hz
 Rated voltage : 208-230 V
 Rated current : 33.0-31.7 A
 L. R. Amperes : 254-244 A
 LRC : 7.7x(Code J)
 No load current : 11.0-12.8 A
 Rated speed : 1750 rpm
 Slip : 2.78 %
 Rated torque : 3.11 kgfm
 Locked rotor torque : 370 %
 Breakdown torque : 260 %
 Insulation class : F
 Service factor : 1.15
 Moment of inertia (J) : 0.0457 kgm²

Locked rotor time : 10s (cold) 6s (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 : 63.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 81.4 kg

Output	50%	75%	100%
Efficiency (%)	75.6	81.0	83.0
Power Factor	0.82	0.88	0.91

Foundation loads
 Max. traction : 109 kgf
 Max. compression : 190 kgf

	Drive end	Non drive end
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		Revision
Checked by		1 / 2		
Date	15/01/2024			

LOAD PERFORMANCE CURVE

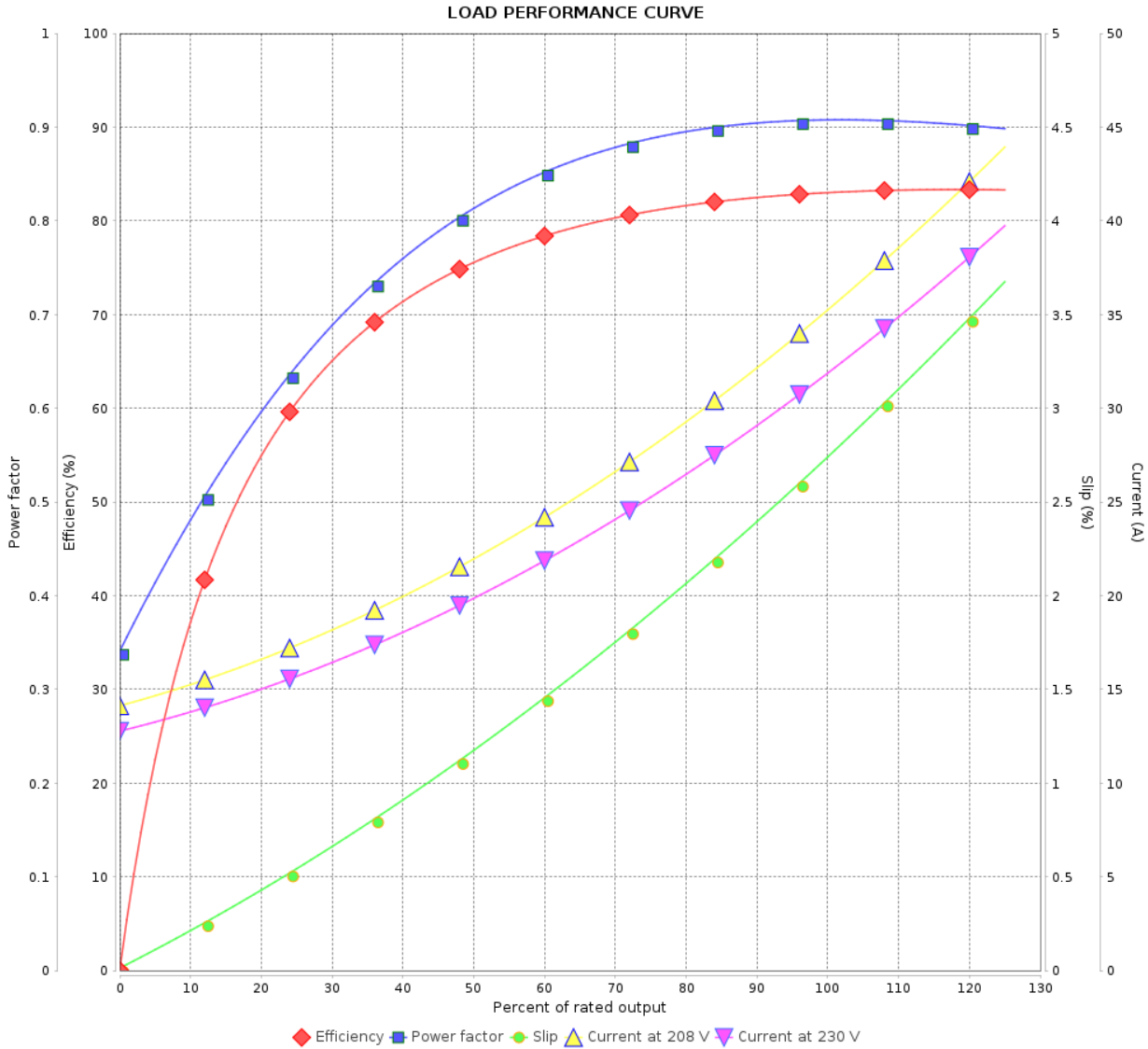
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase

Product code : 14171841



Performance : 208-230 V 60 Hz 4P

Rated current : 33.0-31.7 A
 LRC : 7.7
 Rated torque : 3.11 kgfm
 Locked rotor torque : 370 %
 Breakdown torque : 260 %
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0457 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	15/01/2024			