

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 00022 Single-Phase Product code : 14790495

Frame	: 182/4TC	Locked rotor time	: 14s (cold) 8s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 13.8 A	Protection degree	: IP55
L. R. Amperes	: 106 A	Cooling method	: IC411 - TEFC
LRC	: 7.7x(Code K)	Mounting	: F-1
No load current	: 6.70 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1745 rpm	Noise level ²	: 60.0 dB(A)
Slip	: 3.06 %	Starting method	: Direct On Line
Rated torque	: 1.25 kgfm	Approx. weight ³	: 49.9 kg
Locked rotor torque	: 290 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0157 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	65.0	74.0	77.0	Max. traction	: 45 kgf
Power Factor	0.79	0.87	0.90	Max. compression	: 95 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6207 2RS	6206 2RS
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
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Date	29/10/2024			

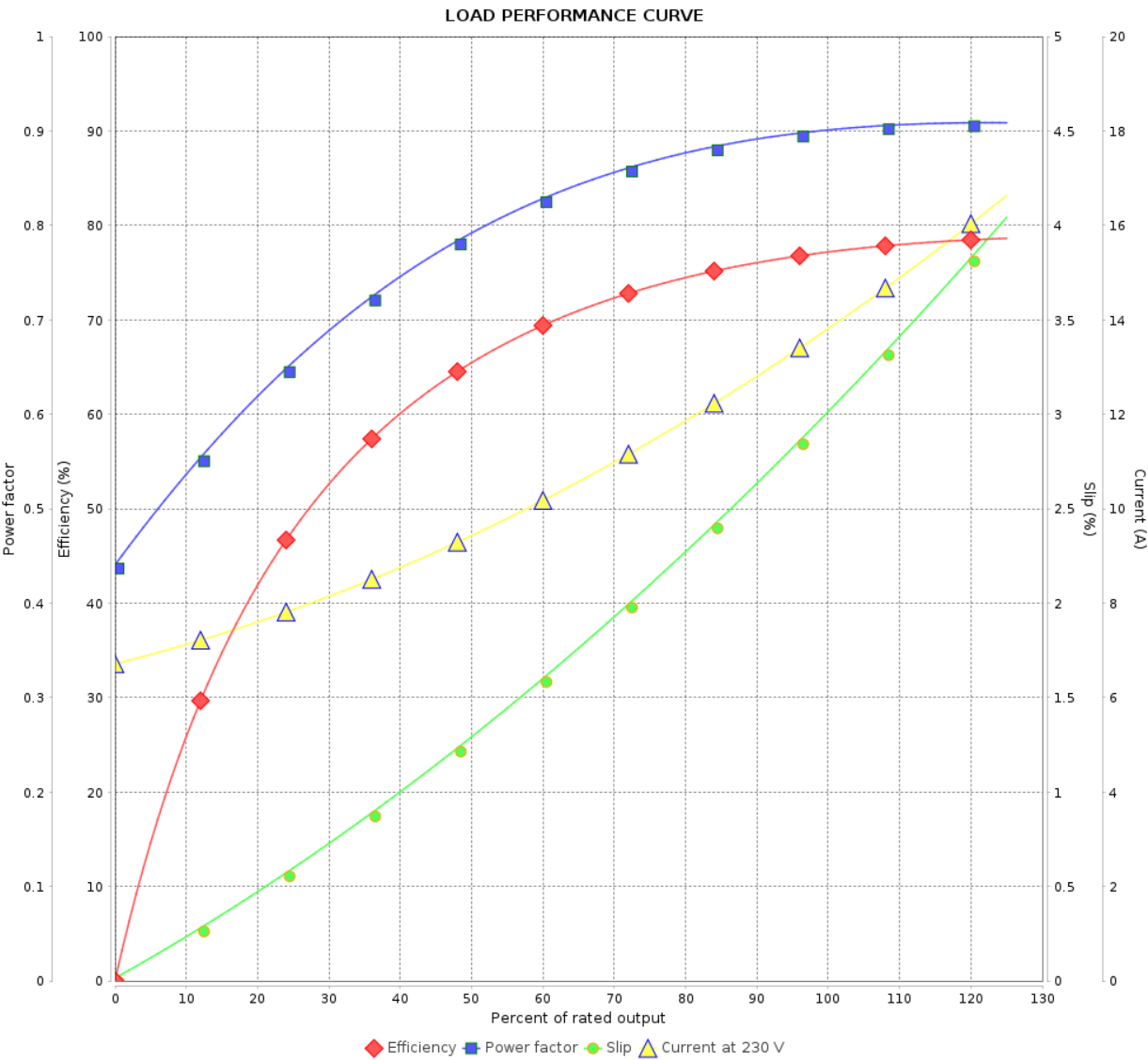
LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 00022 Single-Phase Product code : 14790495



Performance : 230 V 60 Hz 4P

Rated current	: 13.8 A	Moment of inertia (J)	: 0.0157 kgm ²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 1.25 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1745 rpm		

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