

# 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 <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1745 rpm	Noise level <sup>2</sup>	: 60.0 dB(A)
Slip	: 3.06 %	Starting method	: Direct On Line
Rated torque	: 1.25 kgfm	Approx. weight <sup>3</sup>	: 48.7 kg
Locked rotor torque	: 290 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0157 kgm <sup>2</sup>		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	65.0	74.0	77.0	Max. traction	: 46 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.

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# LOAD PERFORMANCE CURVE

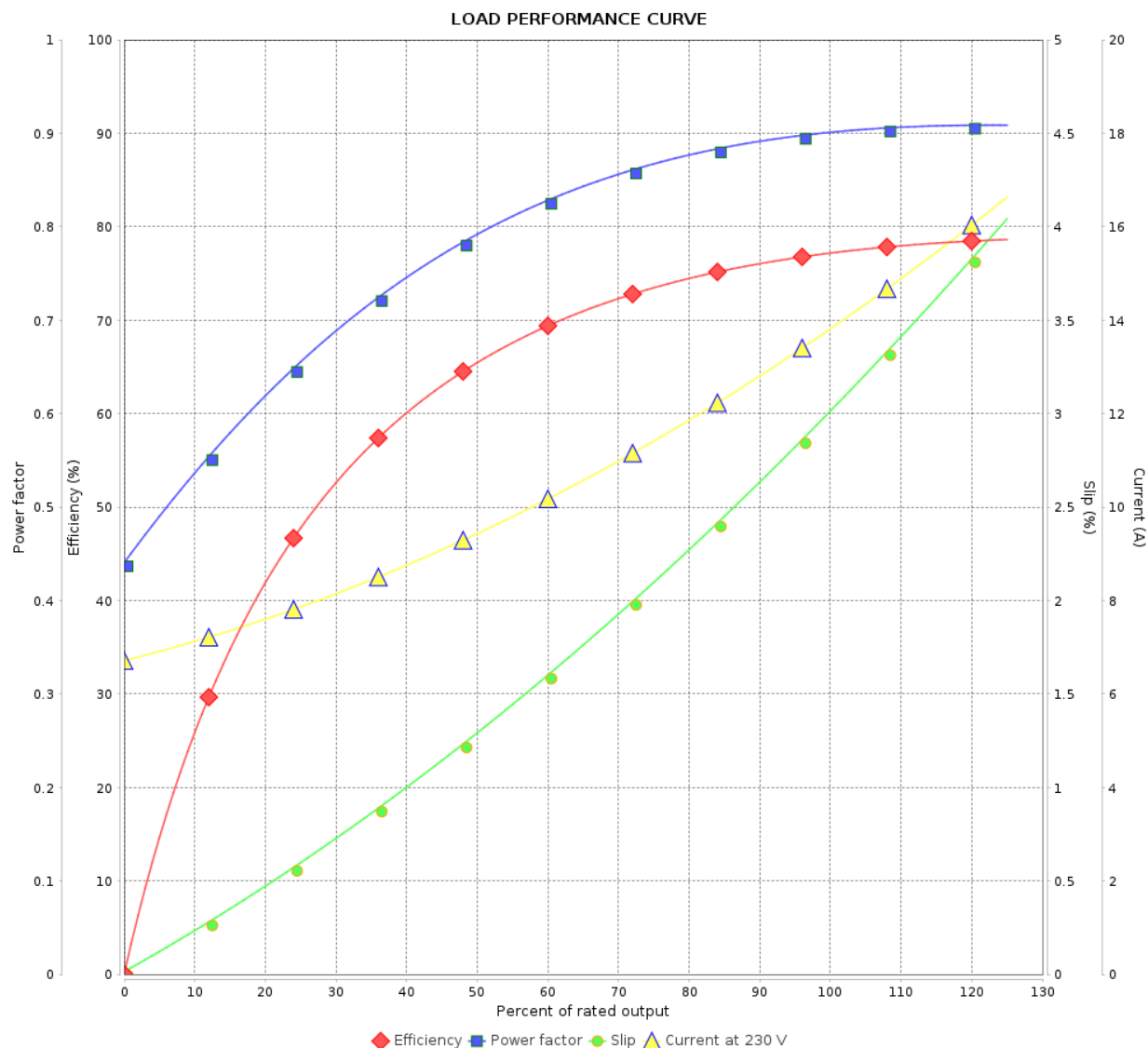
## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 00022 Single-Phase

Product code : 14790495



Performance : 230 V 60 Hz 4P

Rated current : 13.8 A  
LRC : 7.7  
Rated torque : 1.25 kgfm  
Locked rotor torque : 290 %  
Breakdown torque : 270 %  
Rated speed : 1745 rpm

Moment of inertia (J) : 0.0157 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K

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