

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 JM Pump Single-Phase

Product code : 14314720

Frame	: 182/4JM	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	: 115/208-230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 30.2/15.7-15.1 A	Protection degree	: IP55
L. R. Amperes	: 208/108-104 A	Cooling method	: IC411 - TEFC
LRC	: 6.9x(Code J)	Mounting	: F-1
No load current	: 18.0/7.76-9.00 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>	: 48.8 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	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	62.3	65.0	74.0	77.0	Max. traction	: 46 kgf
Power Factor	0.43	0.74	0.80	0.82	Max. compression	: 95 kgf

	Drive end	Non drive end
Bearing type	: 6307 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.

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# LOAD PERFORMANCE CURVE

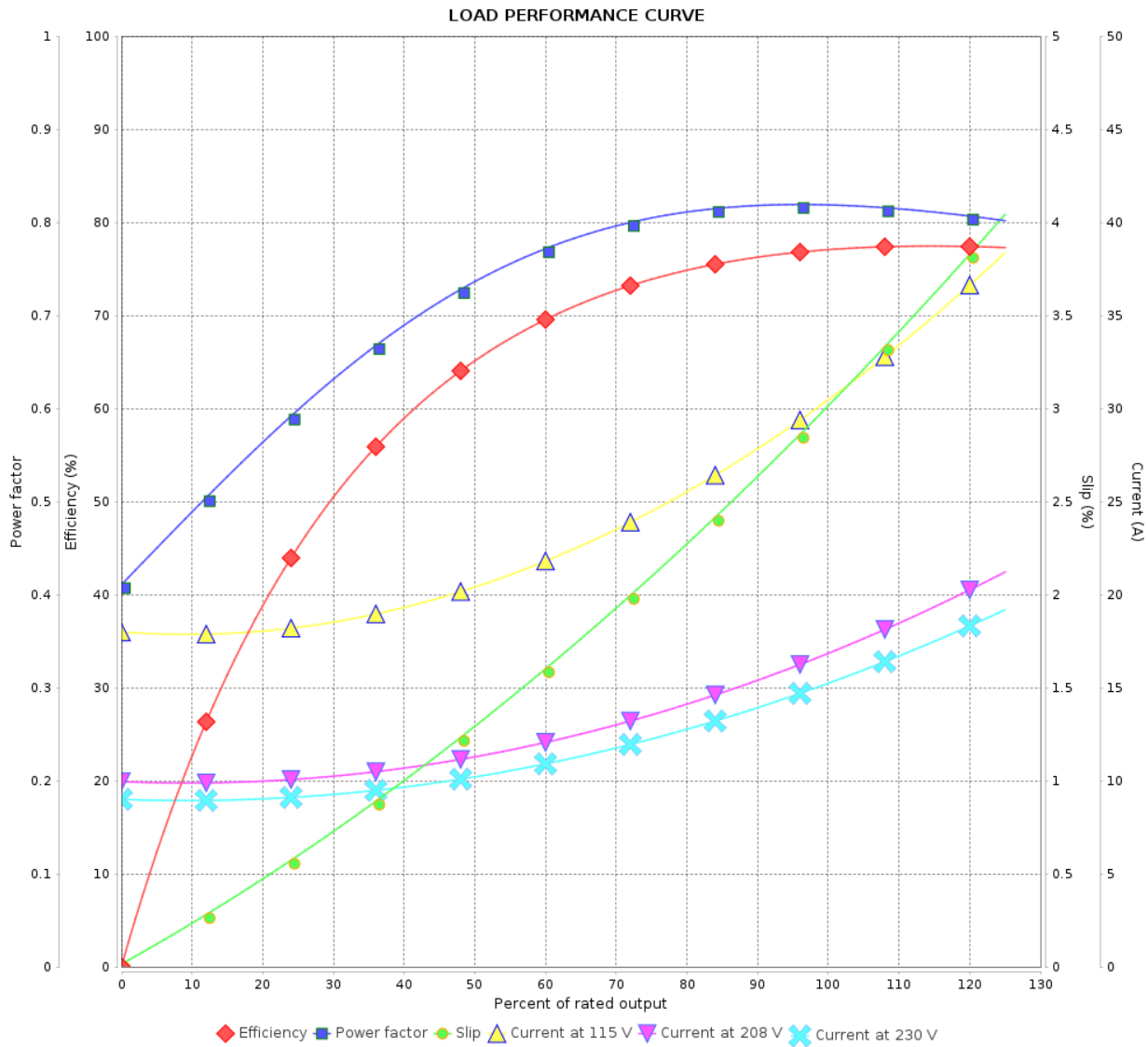
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 JM Pump Single-Phase

Product code : 14314720



Performance : 115/208-230 V 60 Hz 4P

Rated current : 30.2/15.7-15.1 A  
 LRC : 6.9  
 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 :  
 Temperature rise : 80 K

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