

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 JM Pump Single-Phase Product code : 14184284

Frame	: 143/5JM	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 25.0/13.6-12.5 A	Protection degree	: IP55
L. R. Amperes	: 180/97.9-90.0 A	Cooling method	: IC411 - TEFC
LRC	: 7.2x(Code H)	Mounting	: F-1
No load current	: 5.80/2.50-2.90 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3515 rpm	Noise level <sup>2</sup>	: 69.0 dB(A)
Slip	: 2.36 %	Starting method	: Direct On Line
Rated torque	: 0.619 kgfm	Approx. weight <sup>3</sup>	: 33.4 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0028 kgm <sup>2</sup>		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	72.5	76.0	78.5	Max. traction	: 25 kgf
Power Factor	0.96	0.97	0.97	Max. compression	: 59 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6206 ZZ	6203 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

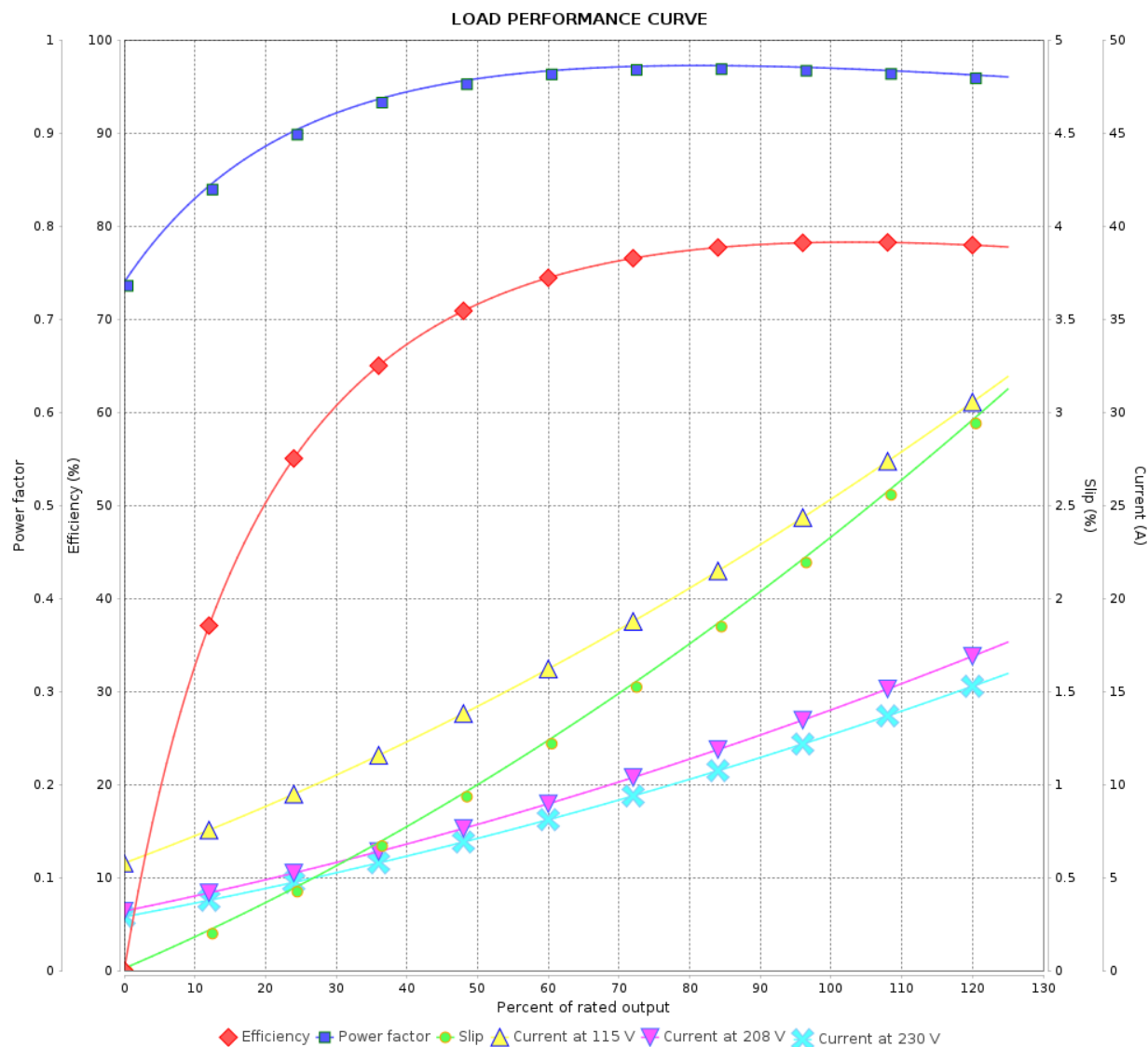
## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 JM Pump Single-Phase

Product code : 14184284



Performance : 115/208-230 V 60 Hz 2P

Rated current : 25.0/13.6-12.5 A  
LRC : 7.2  
Rated torque : 0.619 kgfm  
Locked rotor torque : 220 %  
Breakdown torque : 240 %  
Rated speed : 3515 rpm

Moment of inertia (J) : 0.0028 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor :  
Temperature rise : 80 K

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