

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 JM Pump Single-Phase Product code : 14505577

Frame	: 182/4JM	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 23.0-21.4 A	Protection degree	: IP55
L. R. Amperes	: 150-139 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code H)	Mounting	: F-1
No load current	: 6.90-8.00 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1730 rpm	Noise level <sup>2</sup>	: 60.0 dB(A)
Slip	: 3.89 %	Starting method	: Direct On Line
Rated torque	: 2.10 kgfm	Approx. weight <sup>3</sup>	: 54.4 kg
Locked rotor torque	: 360 %		
Breakdown torque	: 235 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0184 kgm <sup>2</sup>		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	72.5	78.5	80.0	Max. traction	: 76 kgf
Power Factor	0.89	0.93	0.94	Max. compression	: 130 kgf

		<u>Drive end</u>	<u>Non drive end</u>
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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 2 Revision		
Checked by				
Date	29/10/2024			

# LOAD PERFORMANCE CURVE

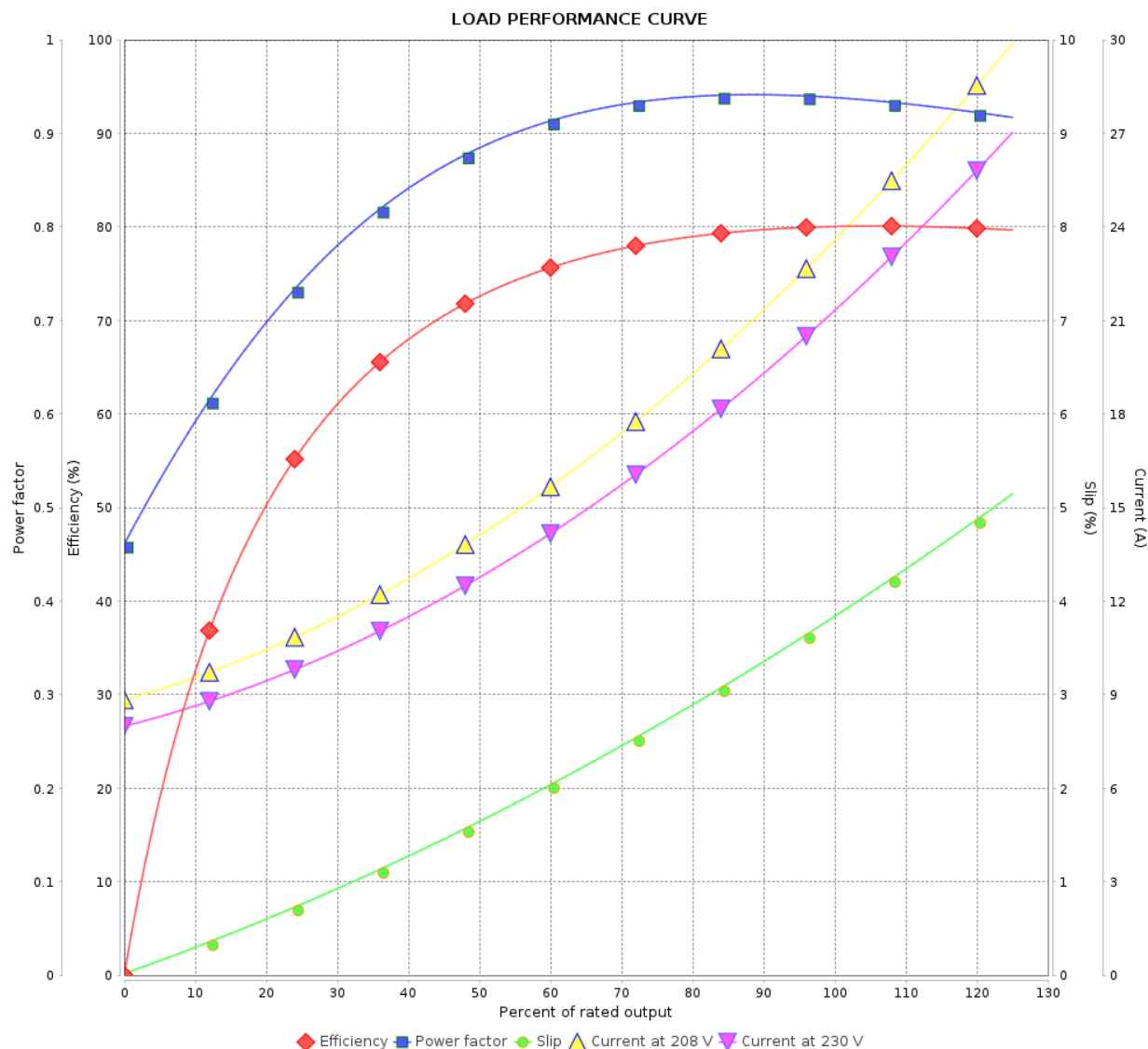
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 JM Pump Single-Phase

Product code : 14505577



Performance : 208-230 V 60 Hz 4P

Rated current : 23.0-21.4 A  
LRC : 6.5  
Rated torque : 2.10 kgfm  
Locked rotor torque : 360 %  
Breakdown torque : 235 %  
Rated speed : 1730 rpm

Moment of inertia (J) : 0.0184 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor :  
Temperature rise : 80 K

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

