

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase			Product code : 11889620			
Frame	: 182/4JM		Locked rotor time	: 55s (cold) 31s (hot)		
Output	: 2 HP (1.5 kW)		Temperature rise	: 80 K		
Poles	: 6		Duty cycle	: Cont.(S1)		
Frequency	: 60 Hz		Ambient temperature	: -20°C to +40°C		
Rated voltage	: 575 V		Altitude	: 1000 m.a.s.l.		
Rated current	: 2.58 A		Protection degree	: IP55		
L. R. Amperes	: 19.3 A		Cooling method	: IC411 - TEFC		
LRC	: 7.5x(Code L)		Mounting	: F-1		
No load current	: 1.52 A		Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 1170 rpm		Noise level <sup>2</sup>	: 52.0 dB(A)		
Slip	: 2.50 %		Starting method	: Direct On Line		
Rated torque	: 1.24 kgfm		Approx. weight <sup>3</sup>	: 46.5 kg		
Locked rotor torque	: 300 %					
Breakdown torque	: 350 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.0262 kgm <sup>2</sup>					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	86.5	87.5	88.5	Max. traction : 67 kgf		
Power Factor	0.46	0.58	0.66	Max. compression : 114 kgf		
Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
12.3	9.8	9.2	7.4	5.0	3.9	2.9
		<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
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# LOAD PERFORMANCE CURVE

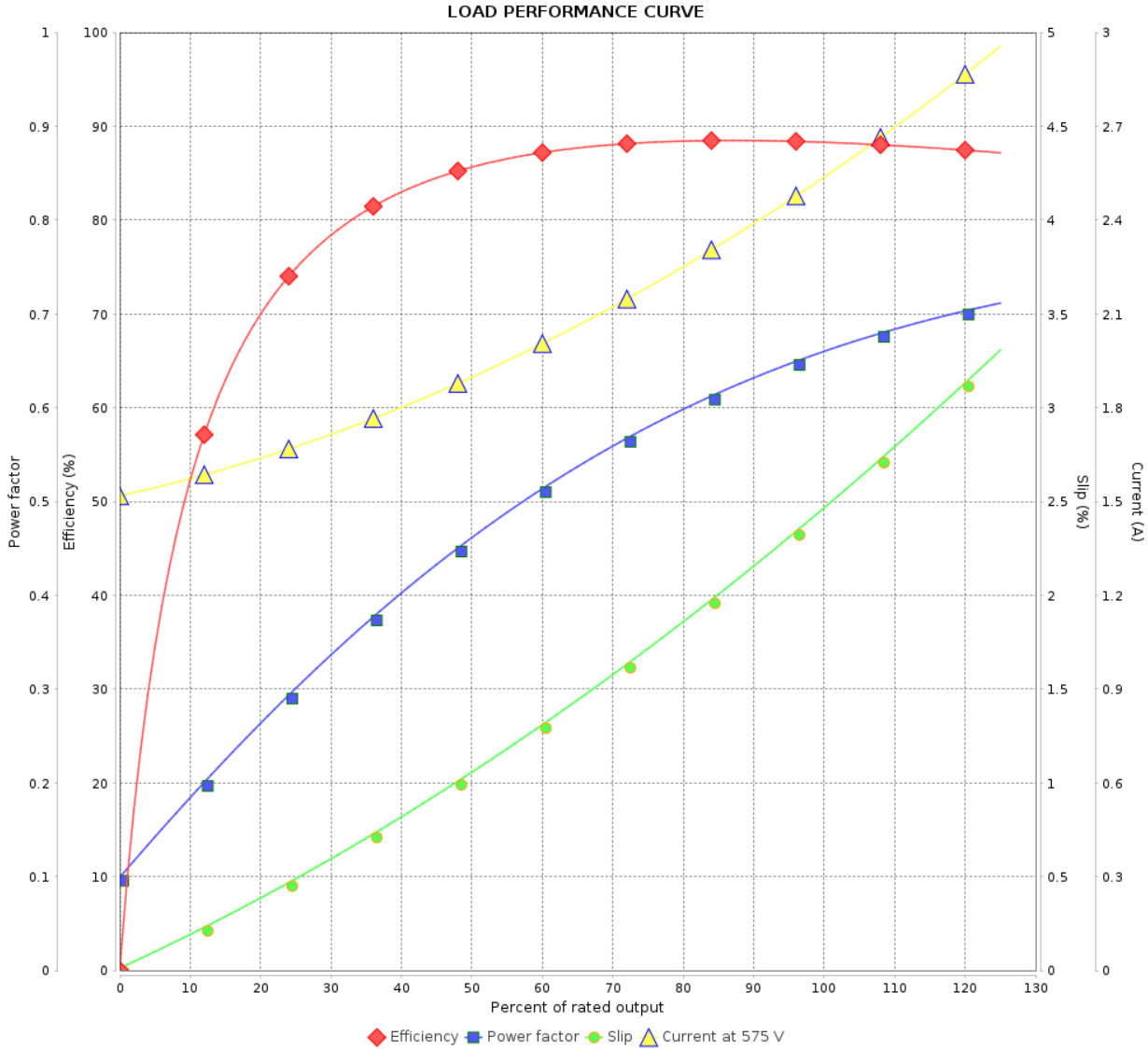
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JM NEMA  
Premium Efficiency Three-Phase

Product code : 11889620



Performance : 575 V 60 Hz 6P

Rated current : 2.58 A  
LRC : 7.5  
Rated torque : 1.24 kgfm  
Locked rotor torque : 300 %  
Breakdown torque : 350 %  
Rated speed : 1170 rpm

Moment of inertia (J) : 0.0262 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

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