

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer					
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	14029902		
Frame	: 213/5JM	Cooling method	: IC01 - ODP		
Insulation class	: F	Mounting	: F-1		
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 63.8 kg		
Design	: B	Moment of inertia (J)	: 0.0232 kgm <sup>2</sup>		
Output [HP]	15				
Poles	2				
Frequency [Hz]	60				
Rated voltage [V]	575				
Rated current [A]	13.8				
L. R. Amperes [A]	93.6				
LRC [A]	6.8x(Code G)				
No load current [A]	4.93				
Rated speed [RPM]	3535				
Slip [%]	1.81				
Rated torque [kgfm]	3.08				
Locked rotor torque [%]	210				
Breakdown torque [%]	280				
Service factor	1.15				
Temperature rise	80 K				
Locked rotor time	14s (cold) 8s (hot)				
Noise level <sup>2</sup>	66.0 dB(A)				
Efficiency (%)	25%				
	50%	90.2			
	75%	90.2			
	100%	90.2			
Power Factor	25%				
	50%	0.77			
	75%	0.86			
	100%	0.89			
Bearing type	: Drive end	Non drive end	Foundation loads		
Sealing	: Without	Without	Max. traction	: 127 kgf	
Lubrication interval	: -	-	Max. compression	: 191 kgf	
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

Three Phase Induction Motor - Squirrel Cage

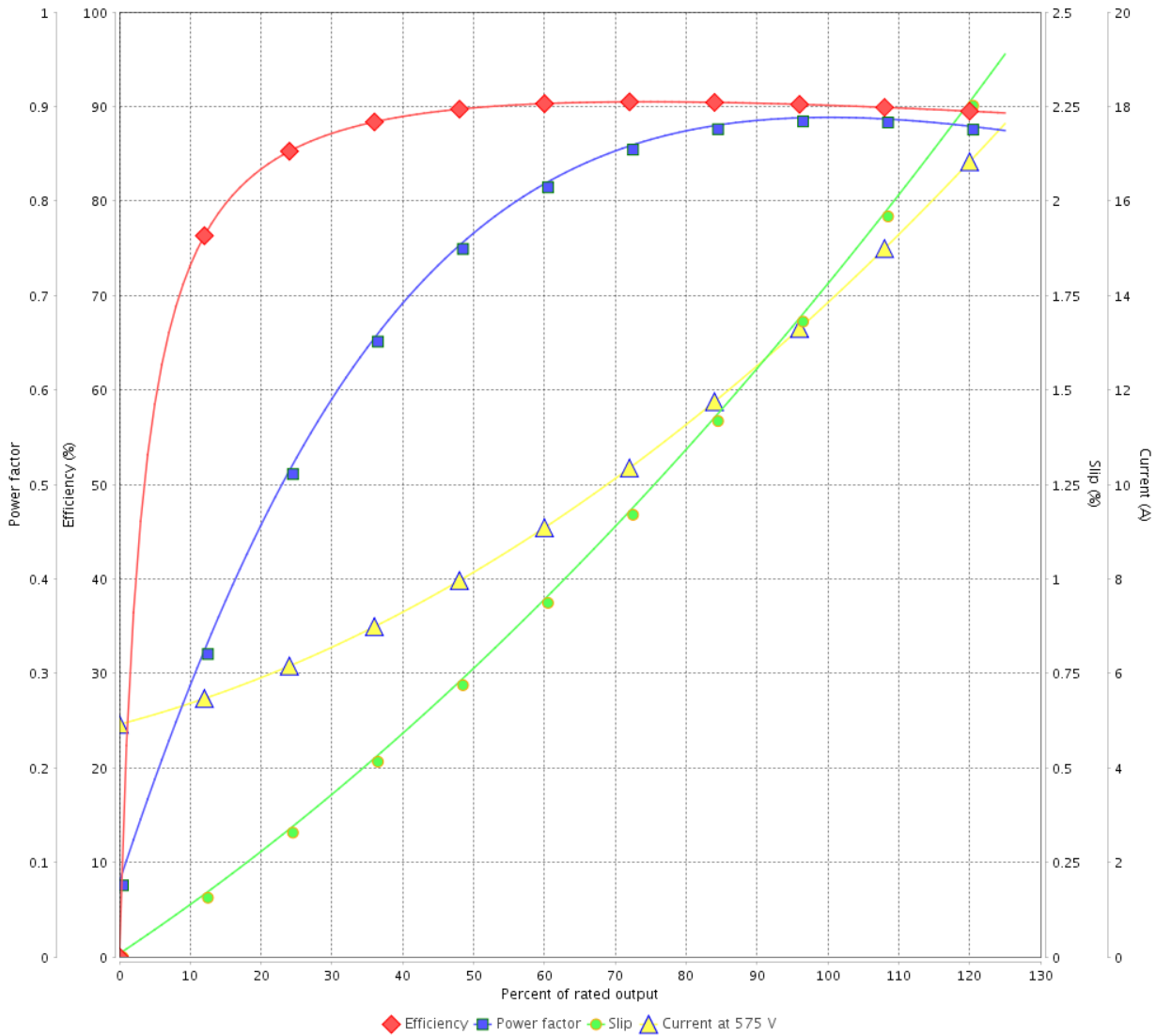


Customer :

Product line : JM Pump NEMA Premium  
Efficiency Three-Phase

Product code : 14029902

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

Rated current : 13.8 A  
LRC : 6.8  
Rated torque : 3.08 kgfm  
Locked rotor torque : 210 %  
Breakdown torque : 280 %  
Rated speed : 3535 rpm

Moment of inertia (J) : 0.0232 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

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