

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code : 13942739
Frame	: 143/5JM	Cooling method	: IC411 - TEFC	
Insulation class	: F	Mounting	: F-1	
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)	
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line	
Altitude	: 1000 m.a.s.l.	Approx. weight ²	: 23.3 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0070 kgm ²	
Design	: B			
Output [HP]	3			
Poles	2			
Frequency [Hz]	60			
Rated voltage [V]	575			
Rated current [A]	2.81			
L. R. Amperes [A]	26.7			
LRC [A]	9.5x(Code K)			
No load current [A]	1.02			
Rated speed [RPM]	3500			
Slip [%]	2.78			
Rated torque [kgfm]	0.622			
Locked rotor torque [%]	300			
Breakdown torque [%]	380			
Service factor	1.15			
Temperature rise	80 K			
Locked rotor time	18s (cold) 10s (hot)			
Noise level ²	68.0 dB(A)			
Efficiency (%)	25%			
	50%	84.0		
	75%	86.5		
	100%	86.5		
Power Factor	25%			
	50%	0.78		
	75%	0.87		
	100%	0.91		
Bearing type	: Drive end 6206 ZZ	Non drive end 6203 ZZ	Foundation loads	
Sealing	: V'Ring	Without Bearing Seal	Max. traction : 56 kgf	
Lubrication interval	: -	-	Max. compression : 79 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

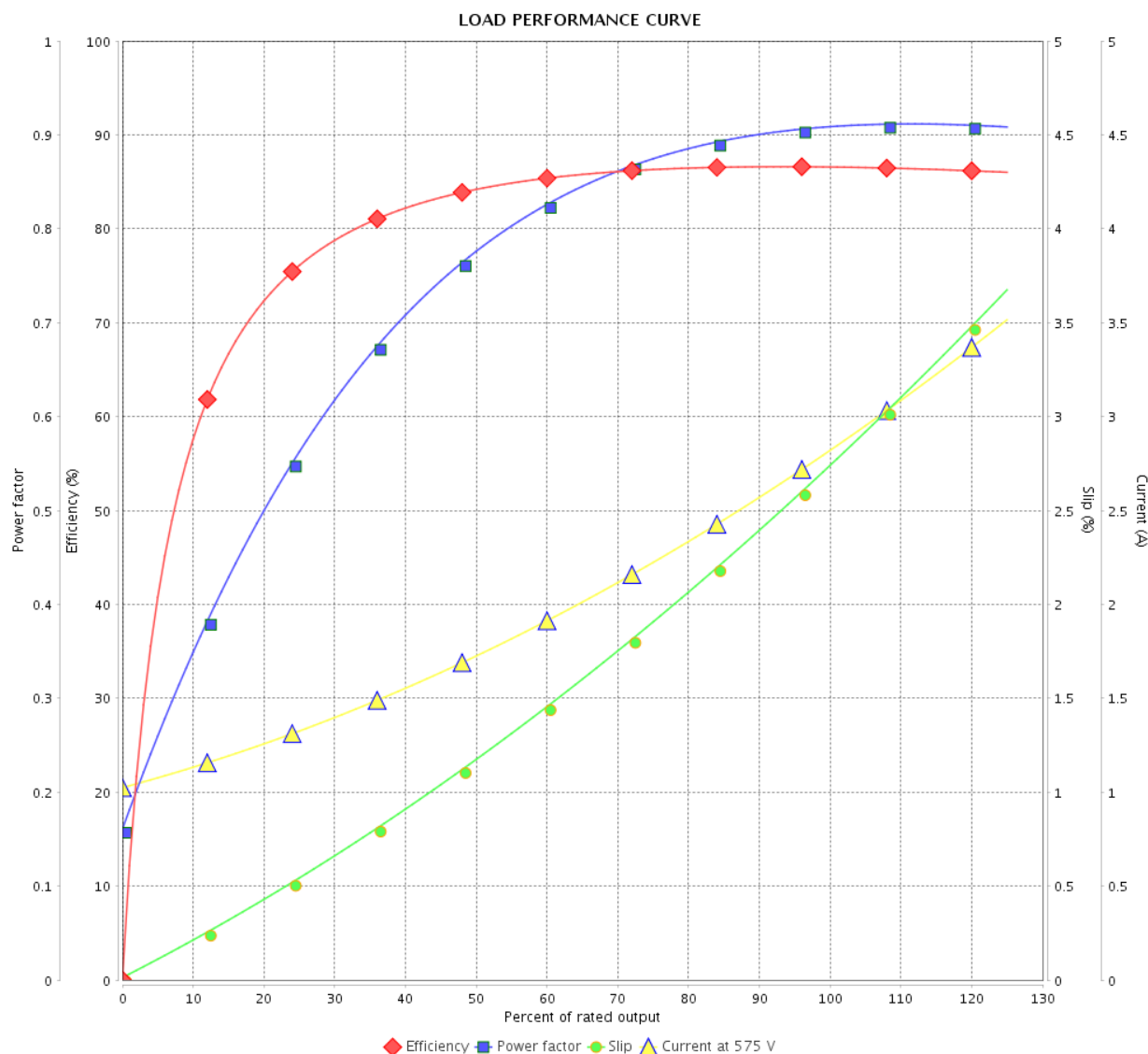
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13942739



Performance : 575 V 60 Hz 2P

Rated current : 2.81 A
LRC : 9.5
Rated torque : 0.622 kgfm
Locked rotor torque : 300 %
Breakdown torque : 380 %
Rated speed : 3500 rpm

Moment of inertia (J) : 0.0070 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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