DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium Product code : 13180573

Efficiency Three-Phase

Frame : 254/6JM Cooling method : IC411 - TEFC Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)
Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 103 kg

Protection degree : IP55 Moment of inertia (1) : 0.0904 kgm²

Protection degre	e	: IP55 Moment of inertia (J) : 0.090		: 0.0904 kgm²	
Design		: B			
Output [HP]		15	15	15	
Poles		4	4	4	
Frequency [Hz]		60	50	50	
Rated voltage [V]		230/460	30/460 190-220/380		
Rated current [A]		36.4/18.2	43.8-37.8/21.9	20.6	
L. R. Amperes [A]		237/118	241-208/120	134	
LRC [A]		6.5x(Code G)	5.5x(Code F)	6.5x(Code H)	
No load current [A]	17.3/8.65	17.1-14.7/8.53	9.86	
Rated speed [RPN	<i>/</i> I]	1770	1455	1465	
Slip [%]		1.67	3.00	2.33	
Rated torque [kgfn		6.15	7.48	7.43	
Locked rotor torque [%]		250	250 190 229		
Breakdown torque	[%]	300	229	280	
Service factor		1.15	1.00	1.00	
Temperature rise		80 K	105 K	105 K	
Locked rotor time		34s (cold) 19s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)	
	25%				
Efficiency (%)	50%	91.0	91.5	90.9	
Linciency (70)	75%	92.4	91.2	91.4	
	100%	92.4	89.9	90.7	
Power Factor	25%				
	50%	0.64	0.71	0.64	
I OWELL ACIOI	75%	0.76	0.81	0.76	
	100%	0.82	0.85	0.82	

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6309 Z C3 6208 Z C3 Max. traction : 276 kgf Sealing : V'Ring Without Max. compression : 379 kgf

Sealing : V'Ring Without Bearing Seal Lubrication interval : V'Ring Without Bearing Seal Lubrication interval : 20000 h

Lubricant amount : 13 g 8 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 40.2A SF 1.00 SFA 40.2A

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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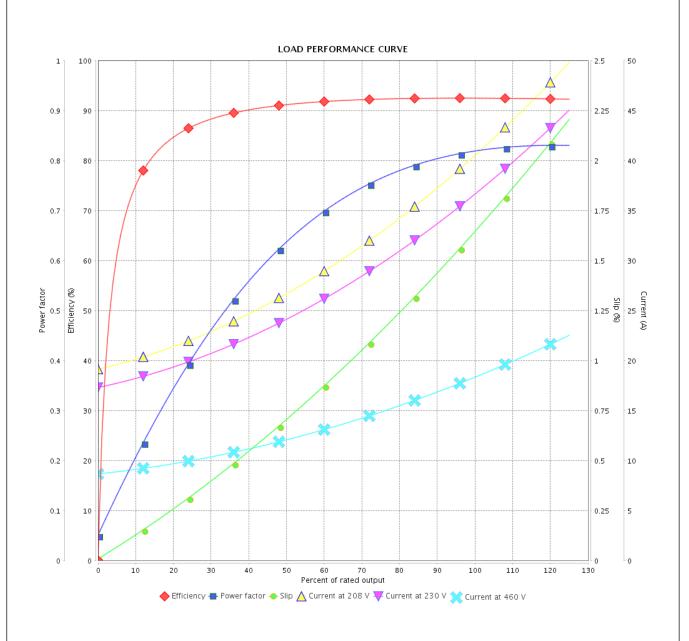


Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13180573



Performance : 230/460 V 60 Hz 4P : 0.0904 kgm² Rated current : 36.4/18.2 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.5 Insulation class Rated torque : 6.15 kgfm : F Locked rotor torque : 250 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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Three Phase Induction Motor - Squirrel Cage

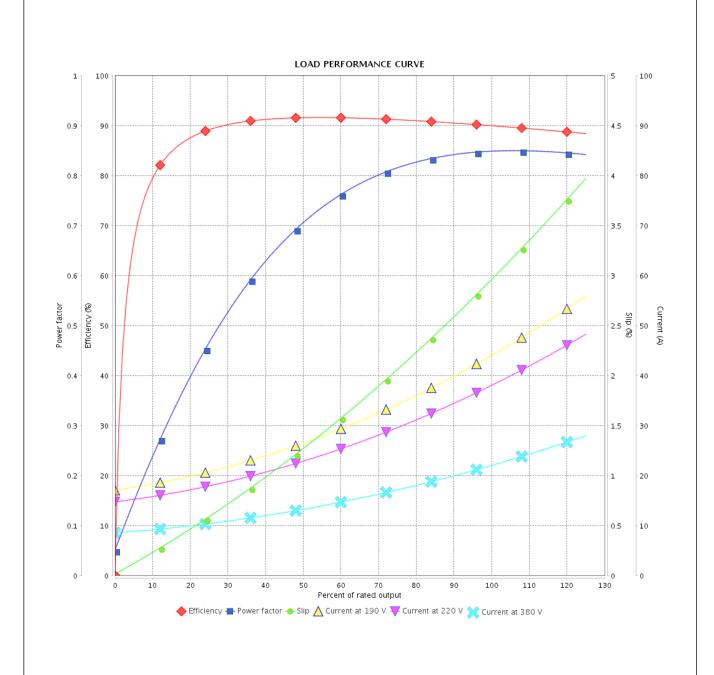


13180573

Customer

Product line : JM Pump NEMA Premium Product code:

Efficiency Three-Phase



Performance	: 1	: 190-220/380 V 50 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5 : 7 ue : 1 e : 2	3.8-37.8/21.9 A .5 .48 kgfm 90 % 29 % 455 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0904 kgm² : Cont.(S1) : F : 1.00 : 105 K : B		
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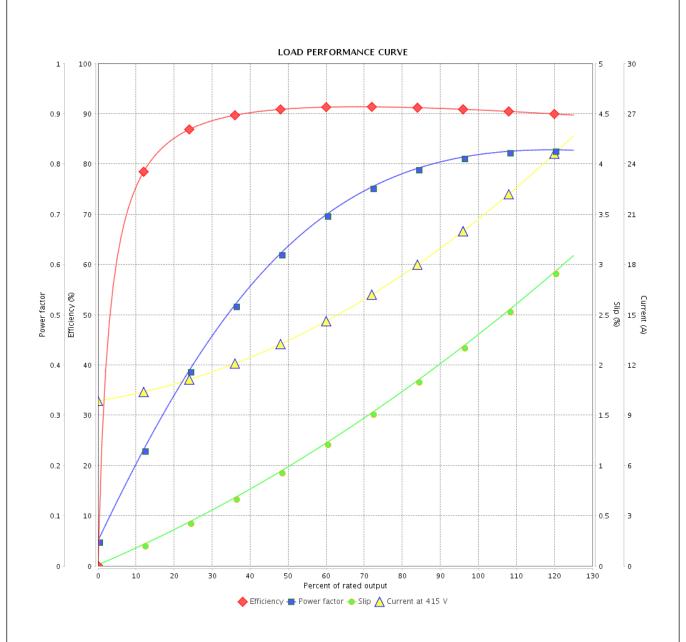
Date

16/05/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13180573



Performance : 415 V 50 Hz 4P : 0.0904 kgm² Rated current : 20.6 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.5 Insulation class Rated torque : 7.43 kgfm : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 105 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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