DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JM Pump NEMA Premium Product code: 14327875 Efficiency Three-Phase Catalog #: 00318OT3V182JM-SG Frame : 182/4JM Locked rotor time : 27s (cold) 15s (hot) Output : 3 HP (2.2 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Frequency : 60 Hz Rated voltage : 200/400 V Altitude : 1000 m.a.s.l. Cooling method Rated current : 8.88/4.44 A : IC01 - ODP L. R. Amperes : 74.6/37.3 A Mounting : F-1 : Both (CW and CCW) LRC : 8.4x(Code K) Rotation¹ No load current : 4.76/2.38 A Noise level² : 55.0 dB(A) Rated speed : 1765 rpm Starting method : Direct On Line Slip : 1.94 % Approx. weight³ : 65.9 lb Rated torque : 8.93 ft.lb Locked rotor torque : 220 % Breakdown torque : 330 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.3092 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 87.5 88.5 89.5 : 155 lb Efficiency (%) 86.4 Max. traction Power Factor 0.35 0.60 0.73 0.80 : 221 lb Max. compression Drive end Non drive end Bearing type 6207 ZZ 6205 ZZ Sealing Without Bearing Seal Without Bearing Seal Lubrication interval Lubricant amount

Mobil Polyrex EM

Notes

Lubricant type

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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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



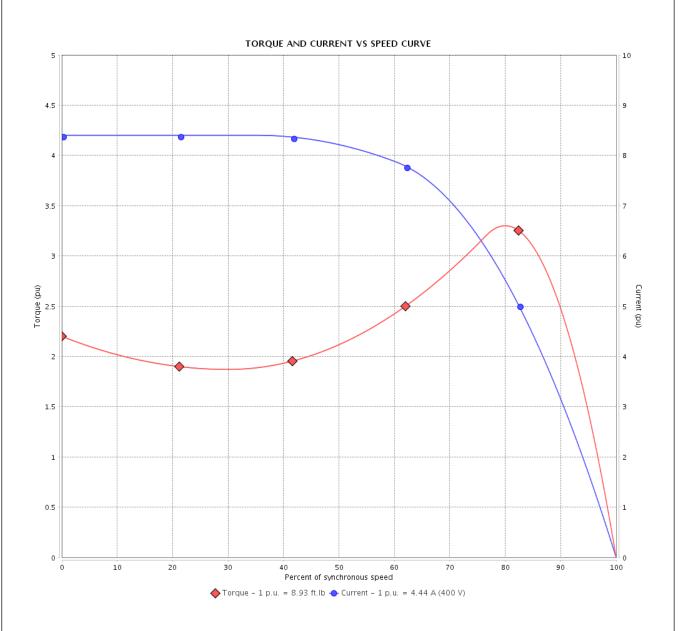
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14327875

Catalog #: 00318OT3V182JM-SG



Performance	: 200/400 V 60 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 8.88/4.44 A : 8.4 : 8.93 ft.lb : 220 % : 330 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 0.3092 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K
Rated speed	: 1765 rpm	Design	: B
Locked rotor time	· 27s (cold) 15s (hot)	,	

Locked rotor time : 27s (cold) 15s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



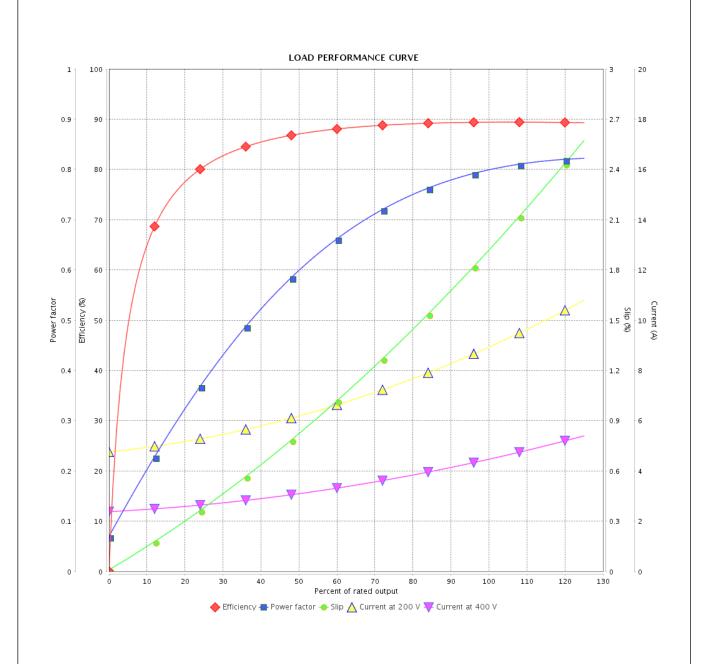
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14327875

Catalog #: 00318OT3V182JM-SG



Performance	: 2	: 200/400 V 60 Hz 4P					
Rated current	: 8	3.88/4.44 A	Moment of inertia (J)		: 0.3092 sq.ft.lb		
LRC	: 8	3.4	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 8	3.93 ft.lb	Insulation class		:F		
Locked rotor torque		220 %	Service fa	Service factor		: 1.15	
Breakdown torque	: 3	330 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 1	765 rpm Design		: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



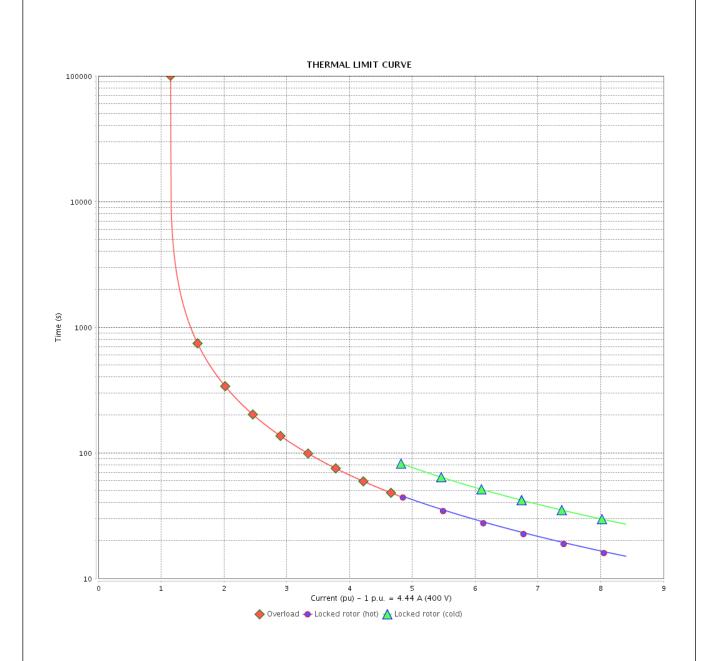
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Product line		: JM Pump NEMA Premium Efficiency Three-Phase	Product code :		14327875	
		,		Catalog # :	00318OT3V	182JM-SG
Performance		200/400 V 60 Hz 4P				
Rated current LRC		8.88/4.44 A 8.4	Moment of Duty cycle	of inertia (J)	: 0.3092 sq.ft. : Cont.(S1)	b
Rated torque	:	8.93 ft.lb	Insulation	class	: F	
Locked rotor torc		220 %	Service fa		: 1.15	
Breakdown torqu Rated speed		330 % 1765 rpm	Temperati Design	ure rise	: 80 K : B	
		•				
Heating constant Cooling constant						
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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Customer :

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Date

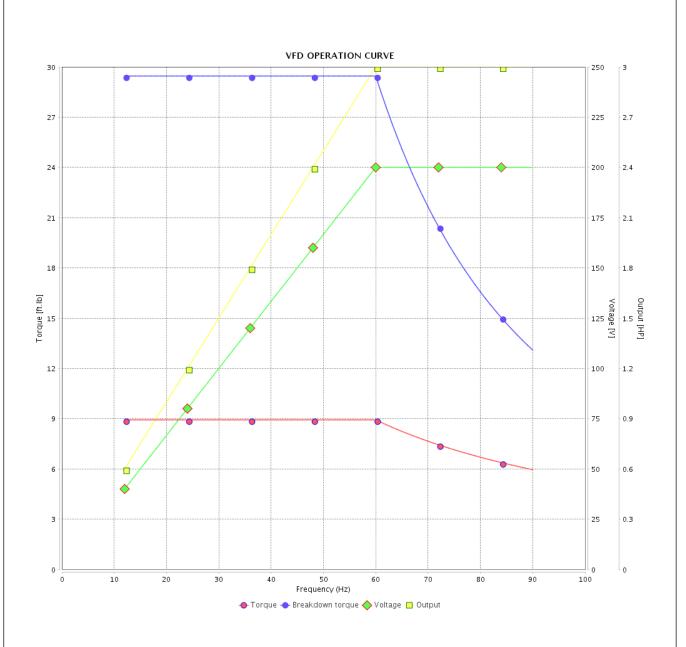
13/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14327875

Catalog #: 00318OT3V182JM-SG



Performance : 200/400 V 60 Hz 4P Rated current : 8.88/4.44 A Moment of inertia (J) : 0.3092 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 8.93 ft.lb : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

