### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : JM Pump NEMA Premium Product code: 14327903 Efficiency Three-Phase Catalog #: 01018OT3H215JM-SG Frame : 213/5JM Locked rotor time : 25s (cold) 14s (hot) Output : 10 HP (7.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Frequency : 60 Hz Rated voltage : 575 V Altitude : 1000 m.a.s.l. Cooling method Rated current : 9.92 A : IC01 - ODP : 69.4 A L. R. Amperes Mounting : F-1 : 7.0x(Code H) : Both (CW and CCW) LRC Rotation<sup>1</sup> No load current : 4.79 A Noise level<sup>2</sup> : 59.0 dB(A) Rated speed : 1770 rpm Starting method : Direct On Line Slip : 1.67 % Approx. weight<sup>3</sup> : 137 lb Rated torque : 29.7 ft.lb Locked rotor torque : 250 % Breakdown torque : 350 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.30 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 90.2 91.7 : 517 lb Efficiency (%) 89.4 91.0 Max. traction Power Factor 0.38 0.64 0.83 : 654 lb 0.77 Max. compression Drive end Non drive end Bearing type 6209 ZZ 6206 ZZ Sealing Without Bearing Seal Without Bearing Seal 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.

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



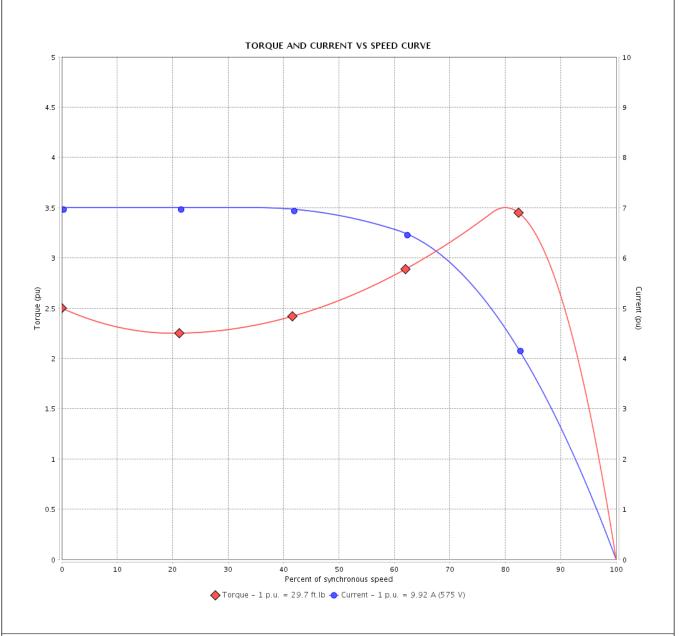
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14327903

Catalog #: 01018OT3H215JM-SG



Performance : 575 V 60 Hz 4P Rated current : 9.92 A Moment of inertia (J) : 1.30 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 29.7 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 250 % : 1.15 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



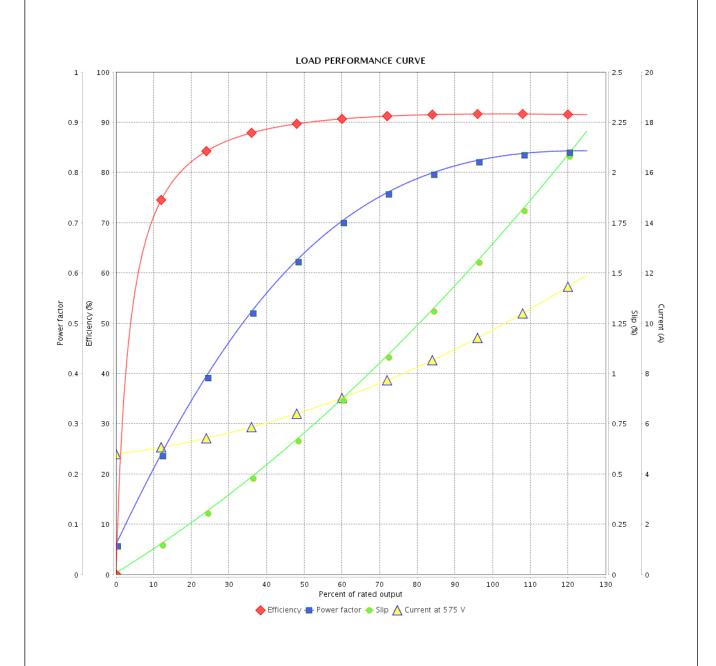
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14327903

Catalog #: 01018OT3H215JM-SG



Performance		: 575 V 60 Hz 4P						
Rated current : 9		92 A	Moment of	Moment of inertia (J)				
LRC : 7.0		.0	Duty cycle	Duty cycle				
Rated torque : 29		9.7 ft.lb	Insulation	Insulation class				
Locked rotor torg	jue : 29	50 %	Service fa	Service factor				
Breakdown torque :		50 %	Temperat	Temperature rise				
Rated speed		770 rpm	Design		: B			
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



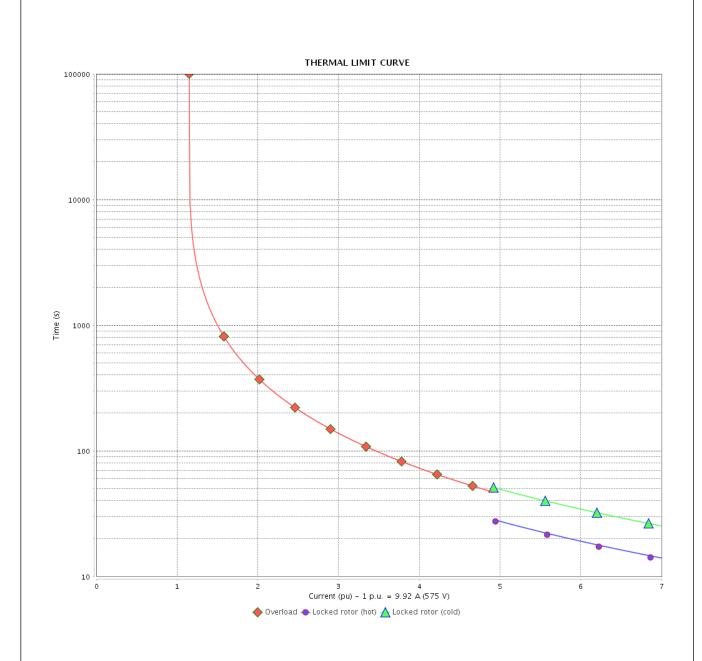
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Product line	: [	: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	14327903	
				Catalog # :	01018OT3H2	15JM-SG
Performance	· !	 575 V 60 Hz 4P				
Rated current		9.92 A	Moment o	f inertia (J)	: 1.30 sq.ft.lb	
LRC	: 7	7.0	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor tord		29.7 ft.lb 250 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ue : C	350 %	Temperati		: 80 K	
Rated speed		1770 rpm	Design		: B	
Heating constan						
Cooling constant	<u>t</u>	Changes Cumman		Performed	Checked	Dota
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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



Customer :

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Date

12/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

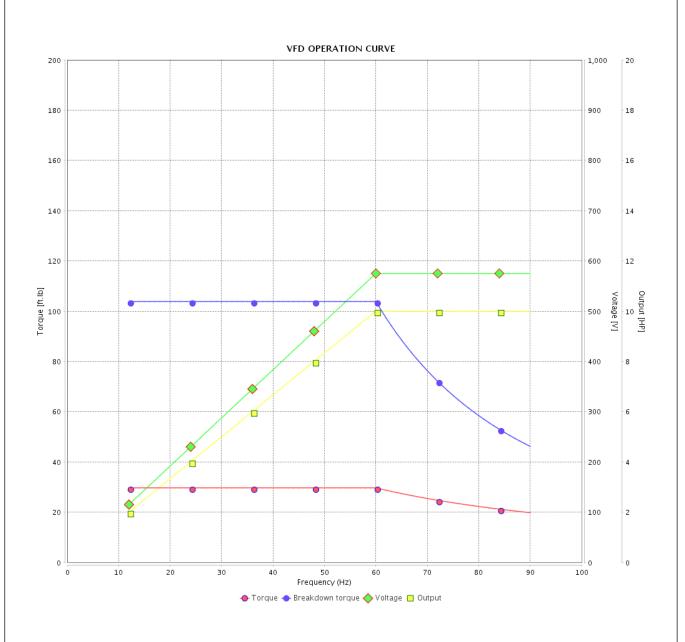
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Catalog #: 01018OT3H215JM-SG

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Performance	: 575 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 9.92 A : 7.0 : 29.7 ft.lb : 250 % : 350 % : 1770 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.30 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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