### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : JM Pump NEMA Premium Product code: 14327899 Efficiency Three-Phase Catalog #: 00736OT3H184JM-SG Frame : 182/4JM Locked rotor time : 18s (cold) 10s (hot) Output : 7.5 HP (5.5 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. : IC01 - ODP Cooling method Rated current : 6.94 A L. R. Amperes : 51.3 A Mounting : F-1 : 7.4x(Code H) : Both (CW and CCW) LRC Rotation<sup>1</sup> No load current : 2.57 A Noise level<sup>2</sup> : 65.0 dB(A) Rated speed : 3500 rpm Starting method : Direct On Line Slip : 2.78 % Approx. weight<sup>3</sup> : 69.9 lb Rated torque : 11.3 ft.lb Locked rotor torque : 180 % Breakdown torque : 290 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1818 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 88.5 88.5 88.5 : 173 lb Efficiency (%) 88.3 Max. traction : 243 lb Power Factor 0.49 0.76 0.85 0.90 Max. compression Drive end Non drive end Bearing type 6207 ZZ 6205 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



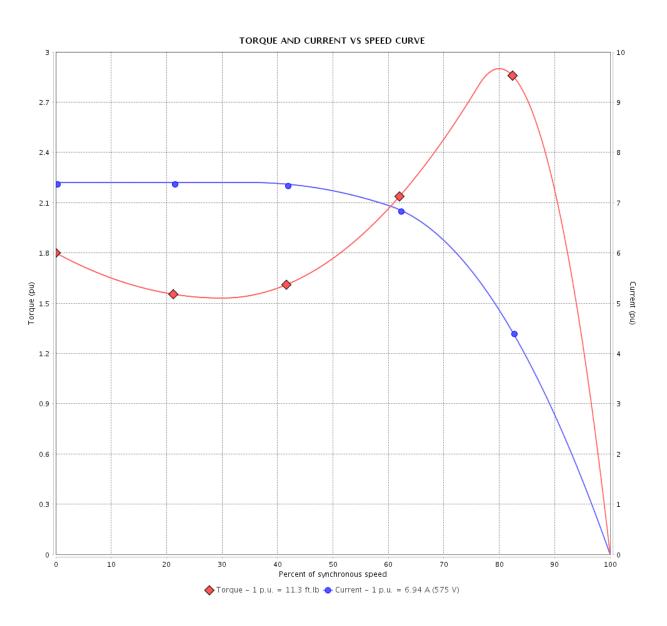
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14327899

Catalog #: 00736OT3H184JM-SG



Performance : 575 V 60 Hz 2P Rated current : 6.94 A Moment of inertia (J) : 0.1818 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 11.3 ft.lb Service factor : 1.15 Locked rotor torque : 180 % Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 3500 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



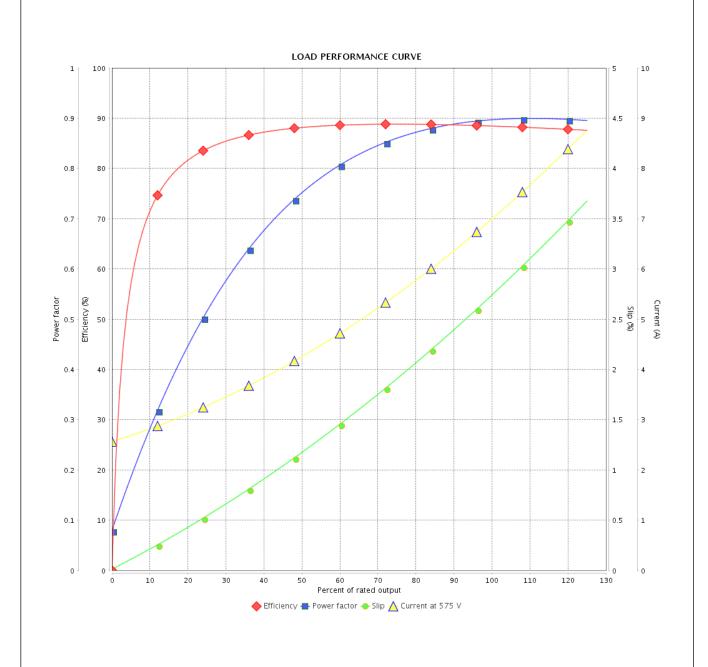
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14327899

Catalog #: 00736OT3H184JM-SG



Performance		: 575 V 60 Hz 2P						
Rated current		.94 A	Moment o	Moment of inertia (J)		.lb		
LRC : 7.4		.4	Duty cycle	Duty cycle				
Rated torque : 1		1.3 ft.lb	Insulation	Insulation class				
Locked rotor torque : 18		80 %	Service fa	Service factor				
Breakdown torque		90 %	Temperati	Temperature rise				
Rated speed	: 3	500 rpm	Design	Design				
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



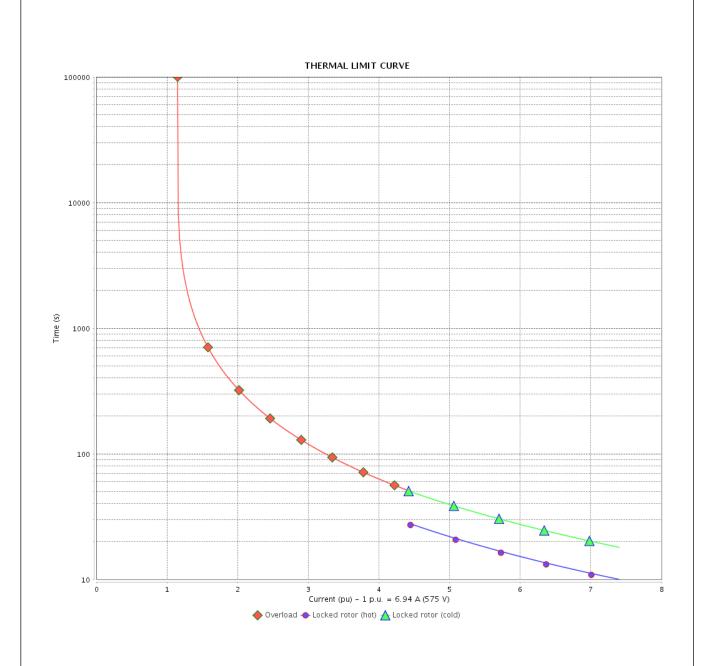
Customer	:					
Product line	:.	JM Pump NEMA Premium fficiency Three-Phase	I	Product code :	14327899	
		inclency Three-Friase	(	Catalog # :	00736OT3H1	84JM-SG
Performance		75 V 60 Hz 2P				
Rated current LRC	: 6. : 7.	94 A .4	Moment of Duty cycle	f inertia (J)	: 0.1818 sq.ft.l : Cont.(S1)	b
Rated torque	: 11	1.3 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		80 % 90 %	Service far Temperatu		: 1.15 : 80 K	
Rated speed		500 rpm	Design		: B	
Heating constant						
Cooling constant		Oh sa sa s	T	Dest.	Ob. 1	
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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 :

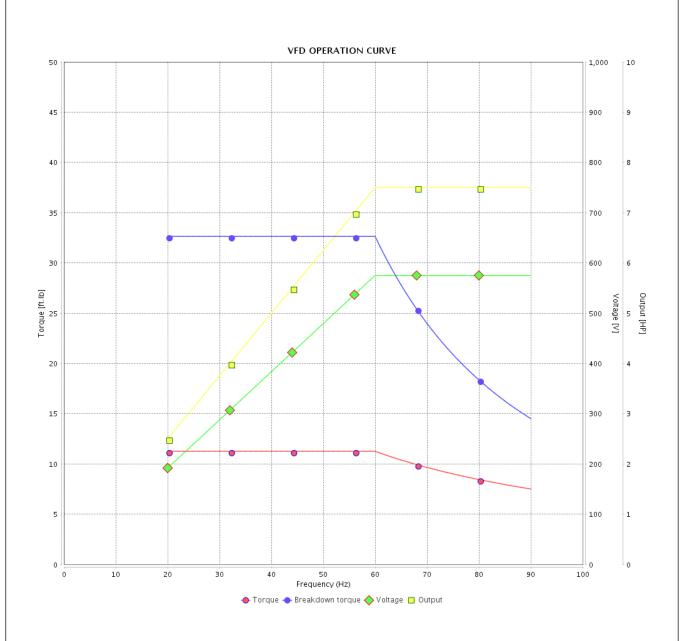
Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14327899

Catalog #: 00736OT3H184JM-SG

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Performance	: 575 V 60 Hz 2P				
Rated current LRC	: 6.94 A Moment of inertia (J)		)	: 0.1818 sq.ft.lb	
Rated torque	: 11.3 ft.lb	Duty cycle Insulation class		: Cont.(S1) : F	
Locked rotor torque Breakdown torque	: 180 % : 290 %	Service factor Temperature rise		: 1.15 : 80 K	
Rated speed	: 3500 rpm	Design		: B	
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Checked by				Page	Revision

12/04/2022

Date

