### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : JM Pump NEMA Premium Product code: 14327877 Efficiency Three-Phase Catalog #: 00336OT3H145JM-SG Frame : 143/5JM Locked rotor time : 16s (cold) 9s (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 : 575 V Altitude : 1000 m.a.s.l. Cooling method Rated current : 2.87 A : IC01 - ODP L. R. Amperes : 23.0 A Mounting : F-1 : Both (CW and CCW) LRC : 8.0x(Code J) Rotation<sup>1</sup> No load current : 1.04 A Noise level<sup>2</sup> : 62.0 dB(A) Rated speed : 3480 rpm Starting method : Direct On Line Slip : 3.33 % Approx. weight<sup>3</sup> : 39.9 lb Rated torque : 4.53 ft.lb Locked rotor torque : 229 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1279 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 85.5 85.5 : 98 lb Efficiency (%) 83.7 84.0 Max. traction Power Factor 0.50 0.76 0.86 0.90 : 138 lb Max. compression Drive end Non drive end Bearing type 6206 ZZ 6203 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

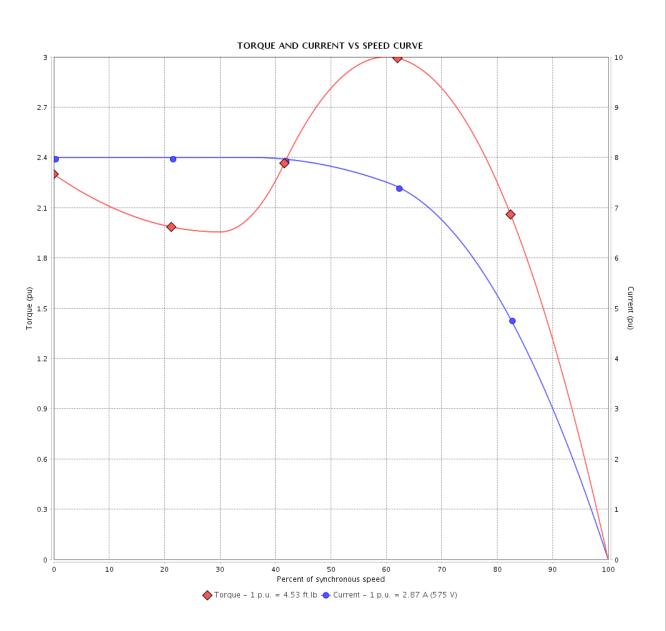


Customer :

Product line : JM Pump NEMA Premium Product code : 14327877

Efficiency Three-Phase

Catalog #: 00336OT3H145JM-SG



Performance : 575 V 60 Hz 2P Rated current : 2.87 A Moment of inertia (J) : 0.1279 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 4.53 ft.lb Service factor : 1.15 Locked rotor torque : 229 % Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3480 rpm Design : B

Locked rotor time : 16s (cold) 9s (hot)

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



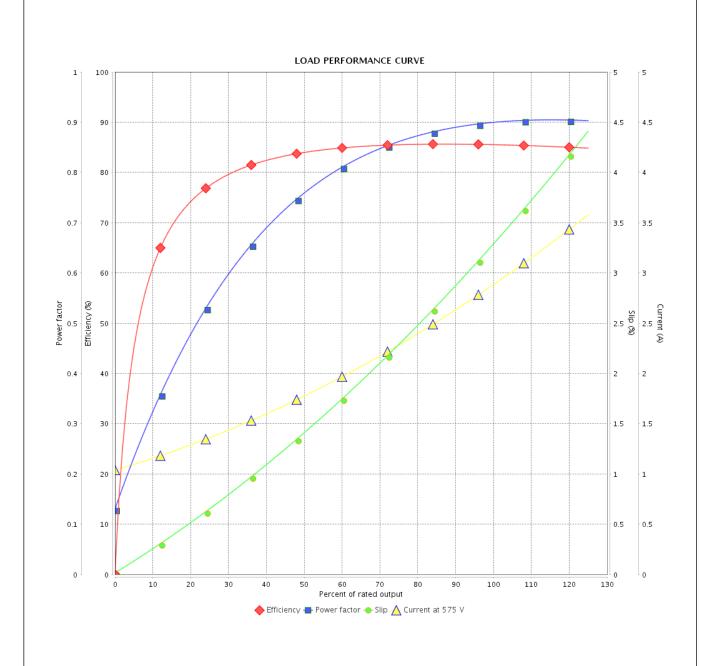
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14327877

Catalog #: 00336OT3H145JM-SG



Performance	:	575 V 60 Hz 2P				
Rated current	::	2.87 A	Moment of inertia (J)		: 0.1279 sq.ft.lb	
LRC	:	8.0	Duty cycle		: Cont.(S1)	
Rated torque	:	4.53 ft.lb	Insulation class		: F	
Locked rotor torque	e ::	229 %	Service factor		: 1.15	
Breakdown torque	:	300 %	Temperature rise		: 80 K	
Rated speed	:	: 3480 rpm Design		: B		
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



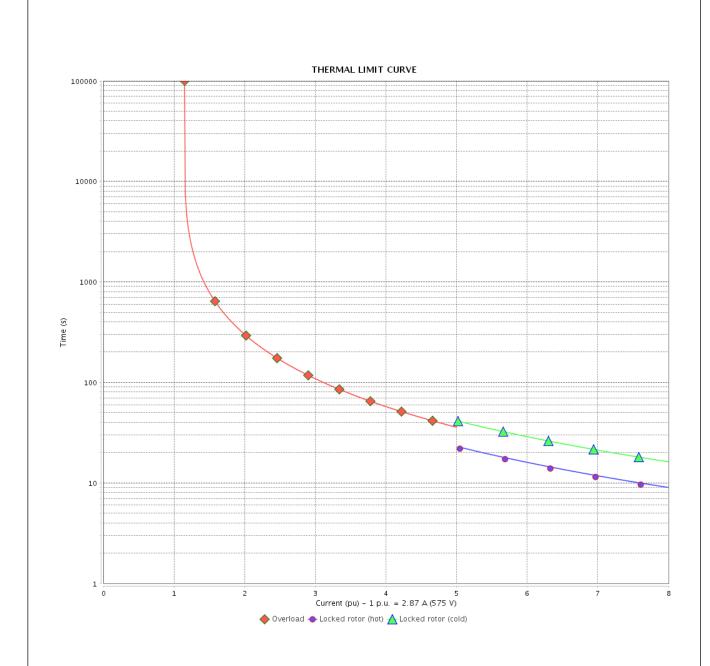
Customer	:				
Product line	: JM Pump NEMA Premium	Product code :	14327877	14327877	
	Efficiency Three-Phase	Catalog # :	00336OT3H	145JM-SG	
Performance	: 575 V 60 Hz 2P				
Rated current	: 2.87 A	Moment of inertia (J)	: 0.1279 sq.ft.l	b	
LRC Rated torque	: 8.0 : 4.53 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F		
Locked rotor torque	: 229 %	Service factor	: 1.15		
Breakdown torque Rated speed	: 300 % : 3480 rpm	Temperature rise Design	: 80 K : B		
Heating constant	<u> </u>				
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



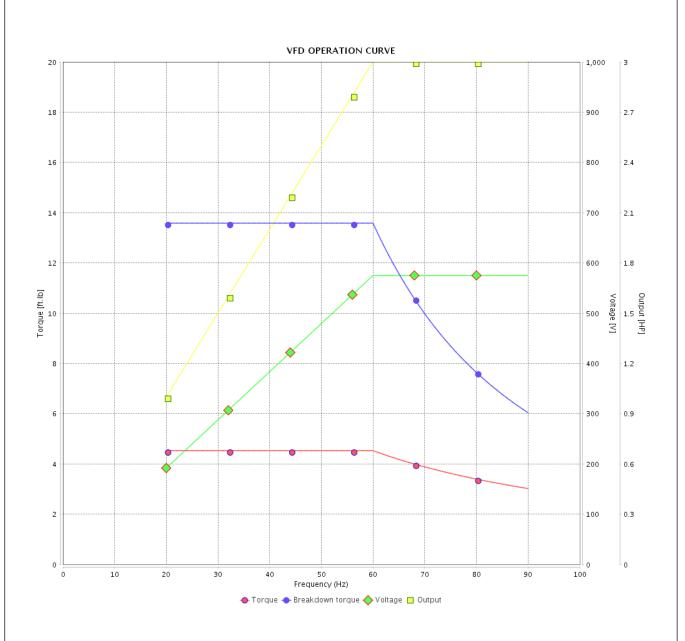
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14327877

Catalog #: 00336OT3H145JM-SG



Performance	: 575 V 60 Hz 2P					
Rated current	: 2.87 A Moment of ir		of inertia (J)	: 0.1279 sq.ft	: 0.1279 sq.ft.lb	
LRC	: 8.0	Duty cycle		: Cont.(S1)		
Rated torque	: 4.53 ft.lb	% Service factor % Temperature rise		: F : 1.15 : 80 K : B		
Locked rotor torque	: 229 %					
Breakdown torque	: 300 %					
Rated speed	: 3480 rpm					
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13/04/2022

Date

