DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JM Pump NEMA Premium Product code: 14358629 Efficiency Three-Phase Catalog #: 02536OT3H256JM-SG Frame : 254/6JM Locked rotor time : 16s (cold) 9s (hot) Output : 25 HP (18.5 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 : 23.3 A : IC01 - ODP L. R. Amperes : 147 A Mounting : F-1 : 6.3x(Code G) : Both (CW and CCW) LRC Rotation¹ No load current : 9.12 A Noise level² : 70.0 dB(A) Rated speed : 3530 rpm Starting method : Direct On Line : 174 lb Slip : 1.94 % Approx. weight³ Rated torque : 37.2 ft.lb Locked rotor torque : 180 % Breakdown torque : 290 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.9155 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 90.8 91.7 : 430 lb Efficiency (%) 91.0 91.7 Max. traction Power Factor 0.46 0.87 : 604 lb 0.73 0.83 Max. compression Non drive end Drive end 6208 Z C3 Bearing type 6309 Z C3 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 20000 h 20000 h Lubricant amount 13 g 8 g 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.

Rev.	Rev. Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



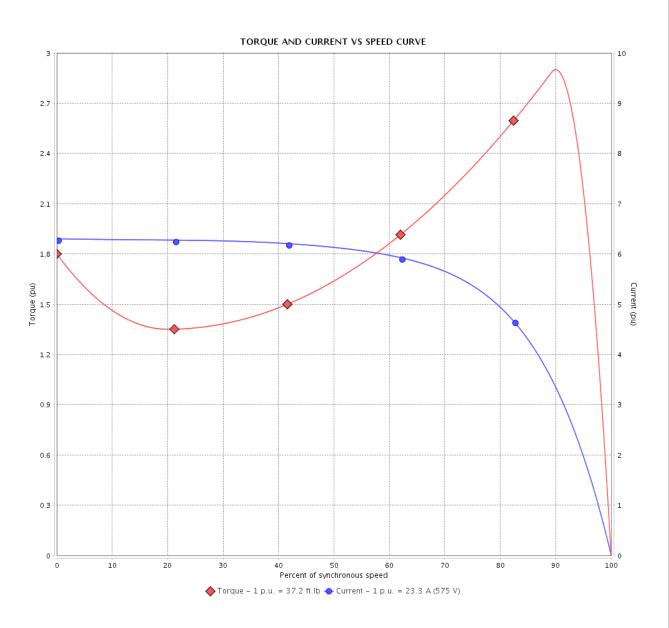
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14358629

Catalog #: 02536OT3H256JM-SG



Performance : 575 V 60 Hz 2P Rated current : 23.3 A Moment of inertia (J) : 0.9155 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : F : 37.2 ft.lb Insulation class Rated torque Service factor : 1.15 Locked rotor torque : 180 % Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 3530 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



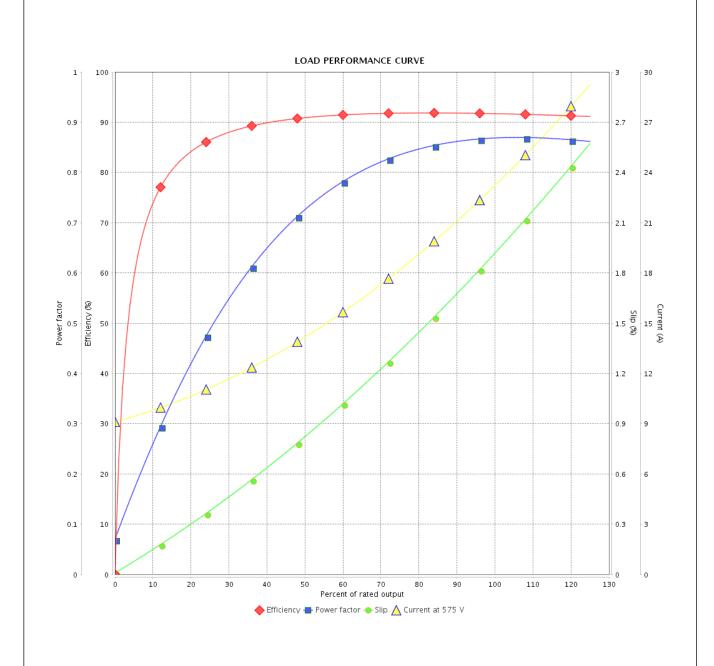
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14358629

Catalog #: 02536OT3H256JM-SG



Performance	: 5	75 V 60 Hz 2P				
Rated current	: 2	3.3 A Moment of inertia (J)		: 0.9155 sq.ft.lb		
LRC		.3	Duty cycle		: Cont.(S1)	
Rated torque	: 3	7.2 ft.lb	Insulation class		:F	
Locked rotor torque		80 %	Service factor		: 1.15	
Breakdown torque	: 2	90 %	Temperature rise		: 80 K : B	
Rated speed	: 3	3530 rpm Design				
Rev.		Changes Summary	l	Performed	Checked	Date
Performed by						
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Checked by					Page	Revision
Date	14/04/2022				3/6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



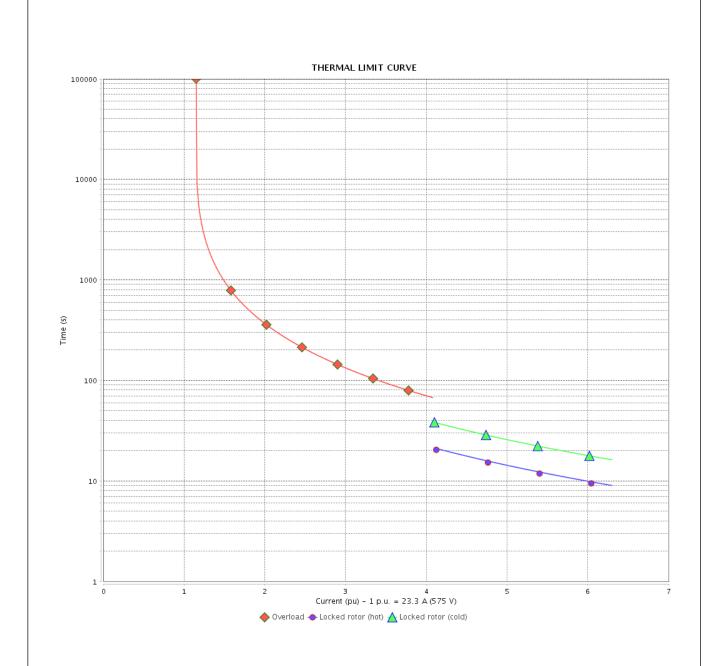
Customer	:					
Product line	: JM Pump NEMA Premium	ı F	Product code :	14358629		
	Efficiency Three-Phase	(Catalog # :	02536OT3H	256JM-SG	
Performance	: 575 V 60 Hz 2P					
Rated current	: 23.3 A	Moment of	inertia (J)	: 0.9155 sq.ft.	lb	
LRC	: 6.3	Duty cycle	Duty cycle Insulation class		: Cont.(S1)	
Rated torque Locked rotor torque	: 37.2 ft.lb : 180 %	Service fac		: F : 1.15		
Breakdown torque	: 290 %	Temperatu		: 80 K		
Rated speed	: 3530 rpm	Design		: B		
Heating constant						
Cooling constant Rev.	Changes Summary		Performed	Checked	Date	
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Performed by						
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	4/04/2022			1/6		

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

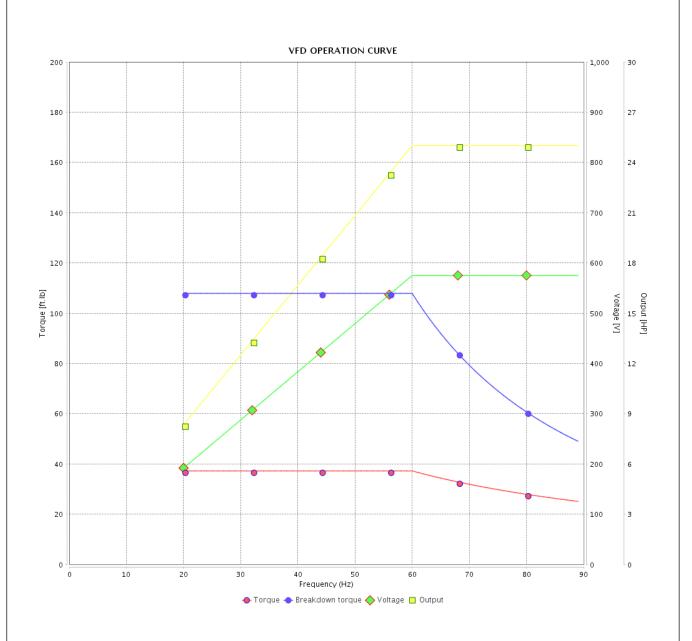
14/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14358629

Catalog #: 02536OT3H256JM-SG



Performance : 575 V 60 Hz 2P Rated current : 23.3 A Moment of inertia (J) : 0.9155 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class : 37.2 ft.lb : F Rated torque : 180 % Locked rotor torque Service factor : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 3530 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

6/6

