DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JM Pump NEMA Premium Product code: 14327892 Efficiency Three-Phase Catalog #: 00536OT3H182JM-SG Frame : 182/4JM Locked rotor time : 21s (cold) 12s (hot) Output : 5 HP (3.7 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 : 4.88 A : IC01 - ODP L. R. Amperes : 37.1 A Mounting : F-1 : 7.6x(Code J) : Both (CW and CCW) LRC Rotation¹ No load current : 2.06 A Noise level² : 65.0 dB(A) Rated speed : 3510 rpm Starting method : Direct On Line Slip : 2.50 % Approx. weight³ : 58.7 lb Rated torque : 7.48 ft.lb Locked rotor torque : 190 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1386 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 85.2 85.5 86.5 86.5 Efficiency (%) Max. traction : 114 lb Power Factor 0.73 0.83 0.88 0.45 Max. compression : 172 lb Drive end Non drive end Bearing type 6207 ZZ 6205 ZZ Without Bearing Seal

Sealing 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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



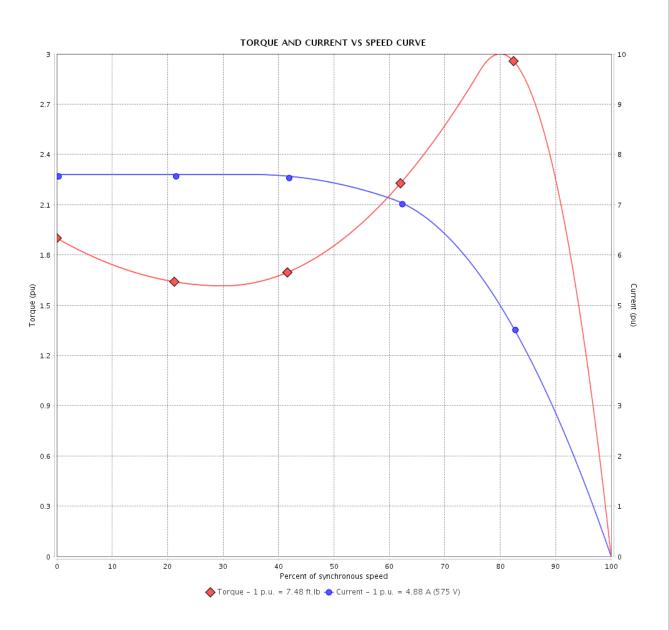
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14327892

Catalog #: 00536OT3H182JM-SG



Performance : 575 V 60 Hz 2P Rated current : 4.88 A Moment of inertia (J) : 0.1386 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : F : 7.48 ft.lb Insulation class Rated torque Service factor : 1.15 Locked rotor torque : 190 % Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3510 rpm Design : B Locked rotor time

: 21s (cold) 12s (hot)

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

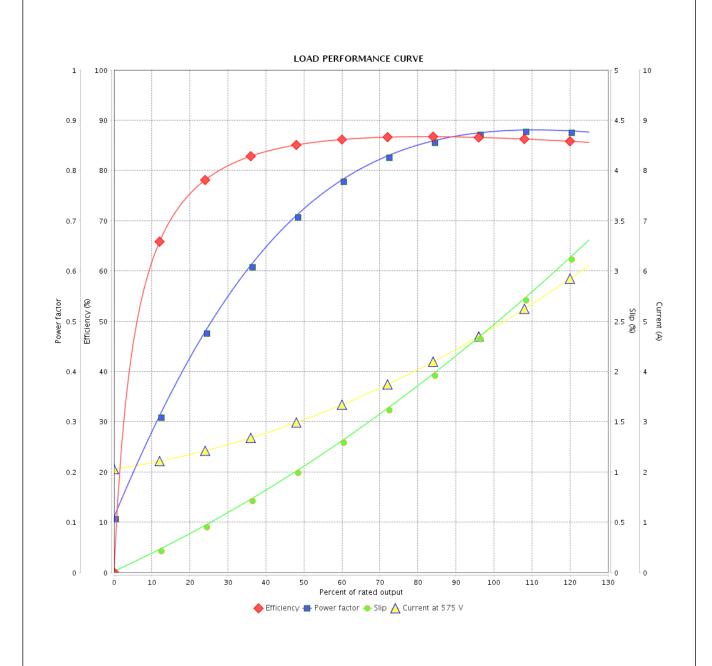
Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14327892

Catalog #: 00536OT3H182JM-SG

3/6



Performance	: 575 V 60 Hz 2P						
Rated current	: 4.88 A	Moment of inertia (J)		: 0.1386 sq.ft.lb			
LRC	: 7.6	Duty cycle		: Cont.(S1)			
Rated torque	: 7.48 ft.lb	Insulation class		: F			
Locked rotor torque	: 190 %	0 % Temperature rise		: 1.15			
Breakdown torque	: 300 %			: 80 K			
Rated speed	: 3510 rpm			: B			
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							
Checked by				Page	Revision		

13/04/2022

Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



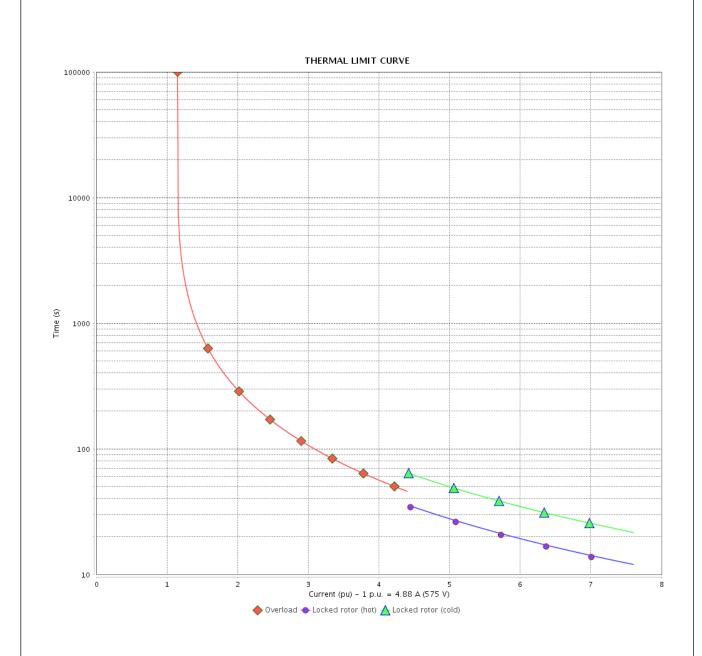
Customer		:				
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	14327892	
		Emoichey Three-i Hase		Catalog # :	00536OT3H	182JM-SG
Performance	:	: 575 V 60 Hz 2P				
Rated current		: 4.88 A	Moment o	f inertia (J)	: 0.1386 sq.ft.l	b
LRC Rated torque		: 7.6 : 7.48 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	: 190 %	Service fa		: 1.15	
Breakdown torqu	ue :	300 %	Temperati	ure rise	: 80 K	
Rated speed		: 3510 rpm	Design		: B	
Heating constant						
Cooling constant	Ţ.	Changes Summary		Performed	Checked	Date
1/67.		Onanges Summery		renomieu	CHECKEU	Dale
Performed by				I		
Checked by					Page	Revision
Date	13/04/2022				4/6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



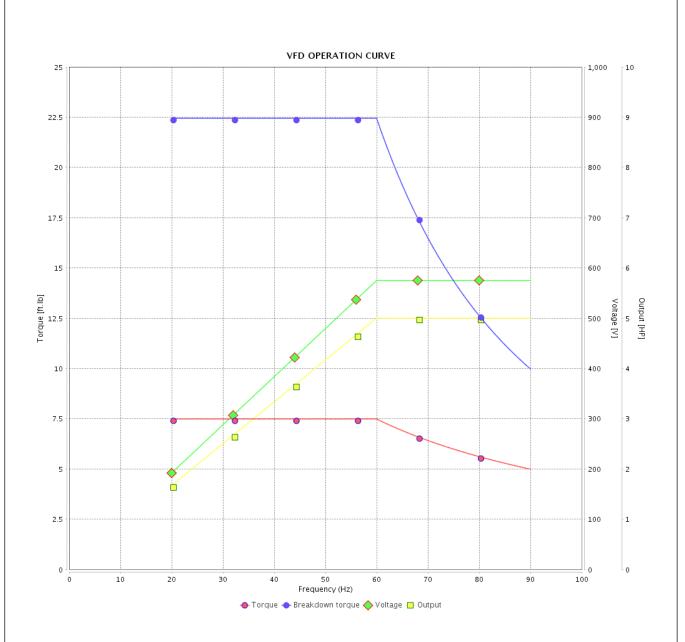
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14327892

Catalog #: 00536OT3H182JM-SG



Performance	: 575 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.88 A : 7.6 : 7.48 ft.lb : 190 % : 300 % : 3510 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1386 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
Rev.	Changes Summary		Performed	Checked	Date		
Performed by Checked by				Page	Revision		

6/6

13/04/2022

Date

