DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JM Pump NEMA Premium Product code: 14484725 Efficiency Three-Phase Catalog #: 05018OT3H326JM-W40 Frame : 324/6JM Locked rotor time : 19s (cold) 11s (hot) Output : 50 HP (37 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 575 V : 1000 m.a.s.l. Altitude Rated current : 46.8 A Protection degree : IP23 L. R. Amperes : 295 A Cooling method : IC01 - ODP LRC : 6.3x(Code G) Mounting : F-1 No load current : 18.6 A Rotation¹ : Both (CW and CCW) Rated speed : 1775 rpm Noise level² : 66.0 dB(A) Starting method Slip : 1.39 % : Direct On Line Rated torque : 148 ft.lb Approx. weight³ : 597 lb Locked rotor torque : 240 % : 240 % Breakdown torque Insulation class : F Service factor : 1.25 Moment of inertia (J) : 7.08 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 94.0 Efficiency (%) 94.1 94.5 94.5 Max. traction Power Factor 0.70 0.80 0.44 0.84 Max. compression Non drive end Drive end Bearing type 6312 Z C3 6211 Z C3 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 20000 h 20000 h Lubricant amount 21 g 11 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.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



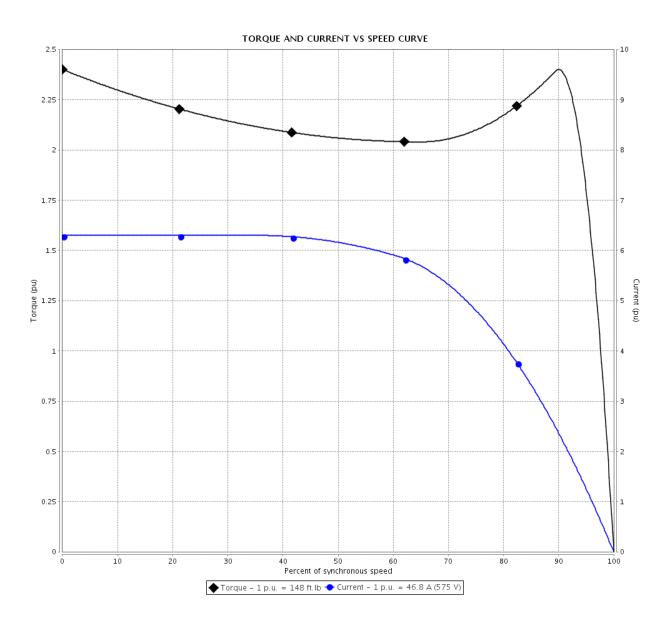
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484725

Catalog #: 05018OT3H326JM-W40



Performance : 575 V 60 Hz 4P Rated current : 46.8 A Moment of inertia (J) : 7.08 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 148 ft.lb : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



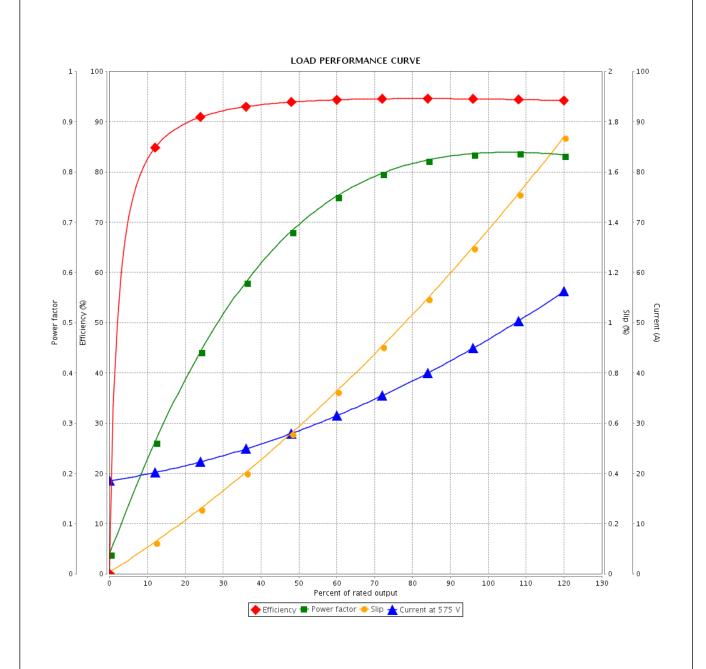
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484725

Catalog #: 05018OT3H326JM-W40



Performance		: 575 V 60 Hz 4P						
Rated current		6.8 A	Moment o	Moment of inertia (J)				
LRC : 6		5.3	Duty cycle	Duty cycle				
Rated torque		48 ft.lb	Insulation class		: F			
Locked rotor torque		40 %	Service factor		: 1.25			
Breakdown torqu	ue : 2	40 %	Temperature rise		: 80 K			
Rated speed	: 1	: 1775 rpm Design			: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



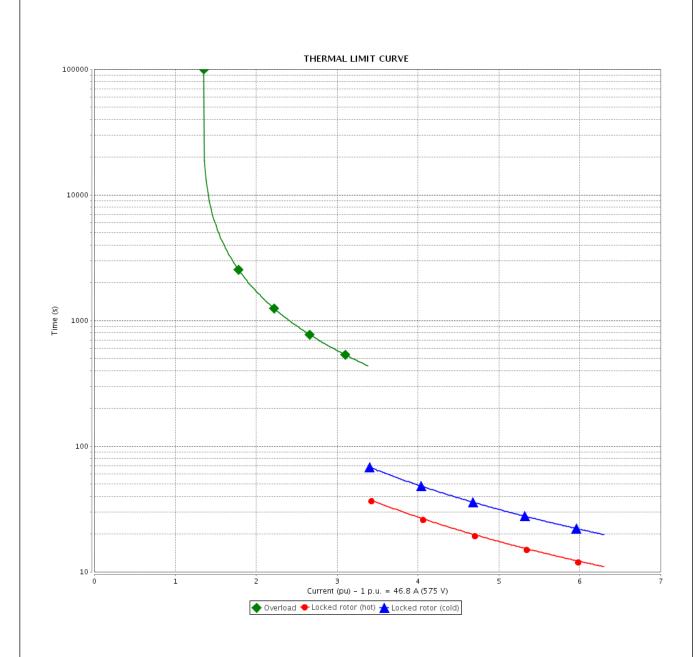
Customer		:			·	
Product line		: W40 JM Pump NEMA Prem	nium	Product code :	14484725	
Product line		Efficiency Three-Phase				
				Catalog # :	05018OT3H3	26JM-W40
Performance		575 V 60 Hz 4P				
Rated current		46.8 A	Moment o	of inertia (J)	: 7.08 sq.ft.lb	
LRC	:	6.3	Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor tord		148 ft.lb 240 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ue :	240 %	Temperat		: 80 K	
Rated speed		1775 rpm	Design		: B	
Heating constan	t					
Cooling constan	t					
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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 :

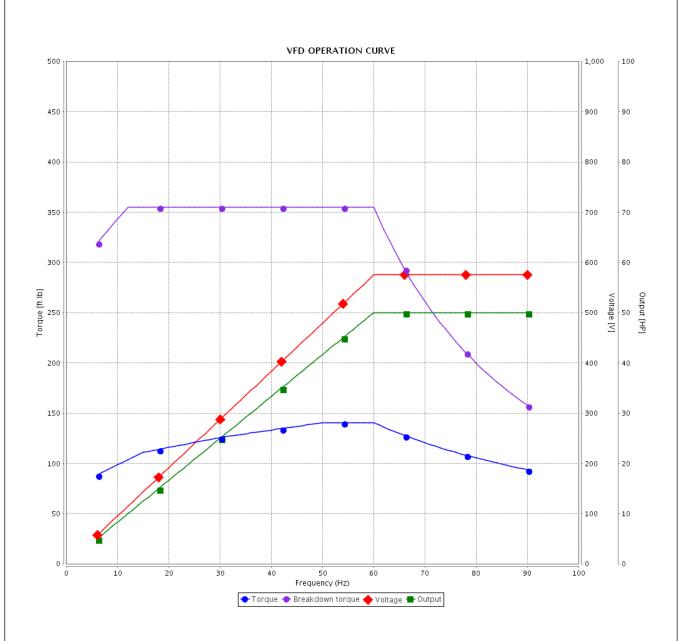
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484725

Catalog #: 05018OT3H326JM-W40

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Performance	: 575 V 60 Hz 4P				
Rated current	: 46.8 A	: 46.8 A Moment of inertia (J)		: 7.08 sq.ft.lb : Cont.(S1)	
LRC	: 6.3 Duty cyc)		
Rated torque			class	: F	
Locked rotor torque	: 240 %	Service factor Temperature rise		: 1.25	
Breakdown torque	: 240 %			: 80 K	
Rated speed	: 1775 rpm	Design		: B	
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Checked by				Page	Revision

10/04/2020

Date

