DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JM Pump NEMA Premium Product code: 14837652 Efficiency Three-Phase Catalog #: 05018OT3H326JMV-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 : W-6 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 : 511 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 0.44 0.70 0.80 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



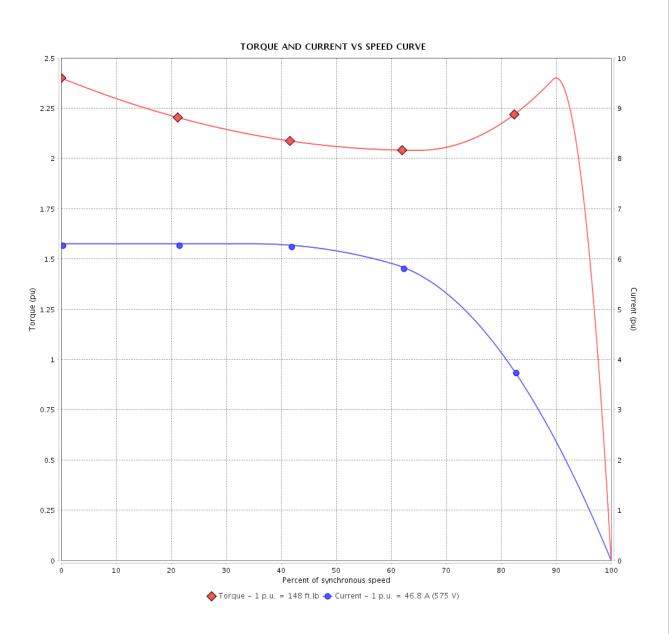
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837652

Catalog #: 05018OT3H326JMV-W40



Performance	: 575 V 60 Hz 4P		
Rated current LRC Rated torque Locked rotor torque	: 46.8 A : 6.3 : 148 ft.lb : 240 %	Moment of inertia (J) Duty cycle Insulation class Service factor	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.25
Breakdown torque Rated speed	: 240 % : 1775 rpm	Temperature rise Design	: 80 K : B
Locked rotor time	· 19s (cold) 11s (hot)		

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



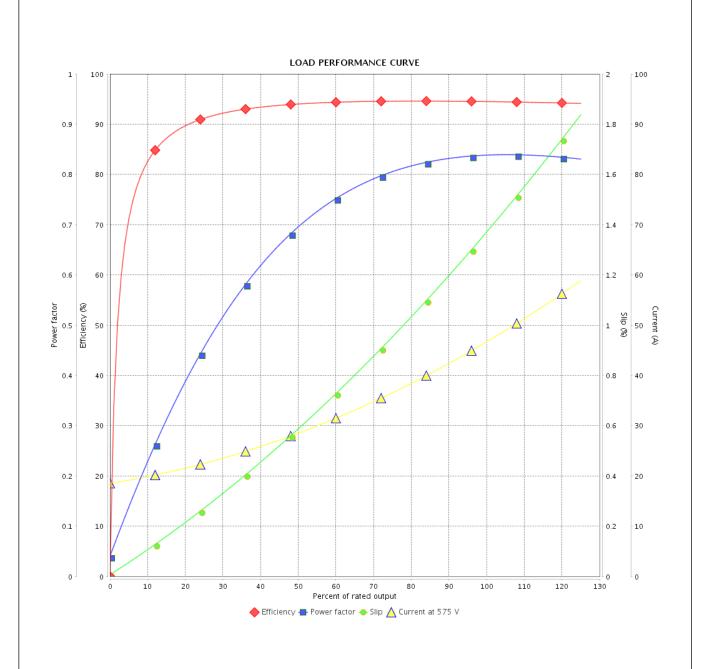
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837652

Catalog #: 05018OT3H326JMV-W40



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

Three Phase Induction Motor - Squirrel Cage



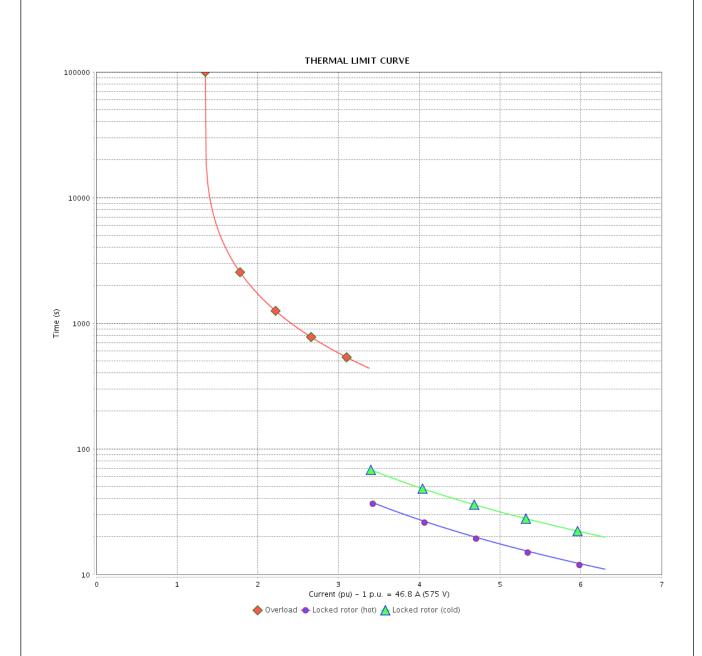
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Customer		:						
Product line		: W40 JM Pump NEMA Premium Efficiency Three-Phase		Product code :	14837652	14837652		
		Emoichey Thice Thase		Catalog # :	05018OT3H	326JMV-W40		
Performance	:	575 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 46.8 A Moment : 6.3 Duty cyc : 148 ft.lb Insulation : 240 % Service f : 240 % Tempera : 1775 rpm Design		class ctor	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B			
Heating constan			-					
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



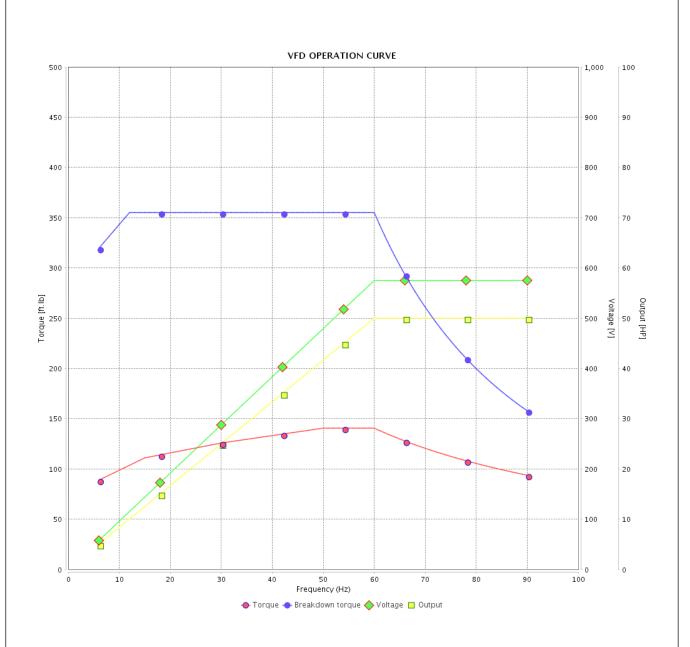
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837652

Catalog #: 05018OT3H326JMV-W40



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

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