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 : 505 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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/04/2020			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



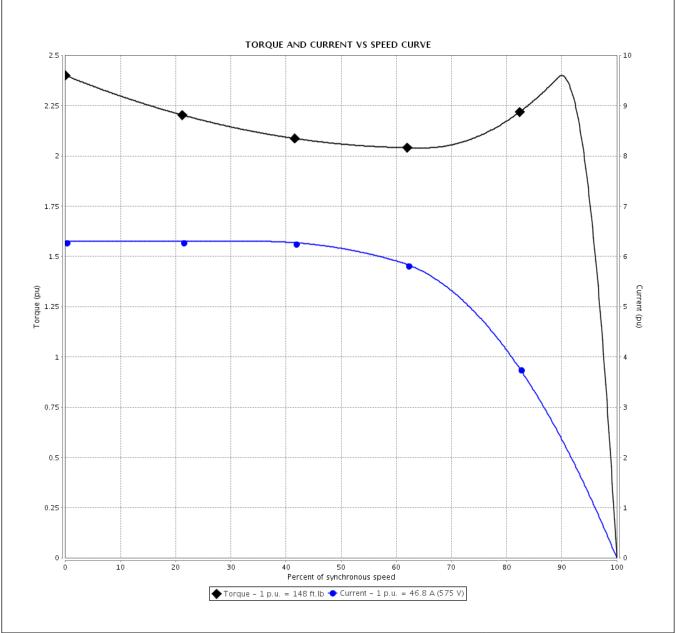
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837652

Catalog #: 05018OT3H326JMV-W40



Performance : 575 V 60 Hz 4P Rated current : 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 Service factor Locked rotor torque : 240 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/04/2020			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



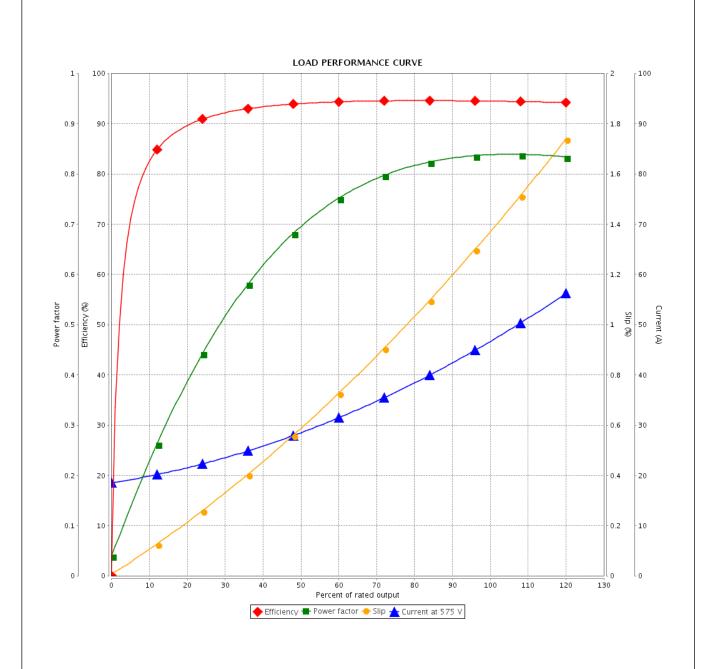
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837652

Catalog #: 05018OT3H326JMV-W40



Performance	: 5	: 575 V 60 Hz 4P						
Rated current	: 4	16.8 A	Moment of inertia (J)		: 7.08 sq.ft.lb			
LRC		3.3	Duty cycle	Duty cycle		: Cont.(S1)		
Rated torque		148 ft.lb	Insulation class		: F			
Locked rotor torque		240 %	Service fa	Service factor		: 1.25		
Breakdown torque	: 2	240 %	Temperati	Temperature rise				
Rated speed	: 1	1775 rpm Design		: B				
Rev.		Changes Summa	ry	Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Date	10/04/2020				3/6			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



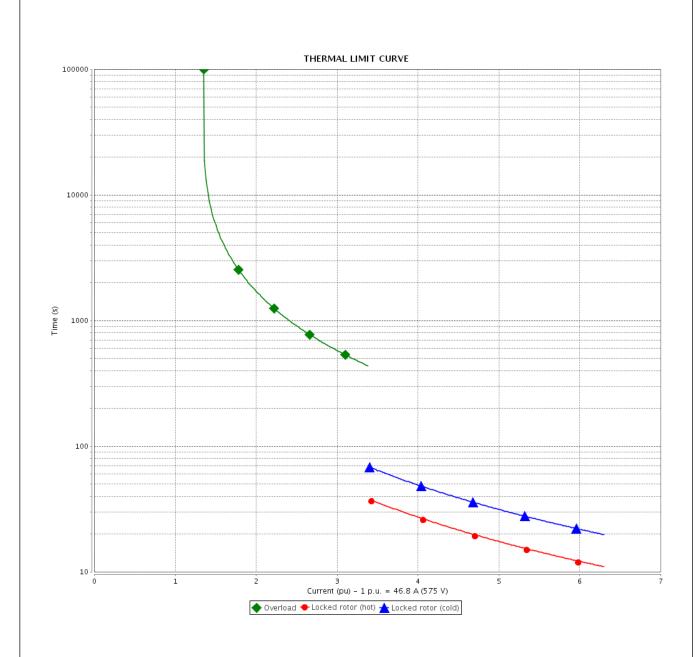
Customer		:				
Product line		· MAO IM Dump NEMA Dece	nium	Product code :	14837652	
Product line		: W40 JM Pump NEMA Prem Efficiency Three-Phase			14637632	
				Catalog # :	05018OT3H3	26JMV-W40
Performance		575 V 60 Hz 4P				
Rated current LRC		46.8 A 6.3	Moment of Duty cycle	of inertia (J)	: 7.08 sq.ft.lb : Cont.(S1)	
Rated torque	:	148 ft.lb	Insulation	class	: F	
Locked rotor tord		240 %	Service fa		: 1.25	
Breakdown torqu Rated speed		240 % 1775 rpm	Temperate Design	ure rise	: 80 K : B	
Heating constan		·				
Cooling constant						
Rev.	-	Changes Summary	<u> </u>	Performed	Checked	Date
		<u> </u>				
Performed by						
Checked by					Page	Revision
Date	10/04/2020				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	10/04/2020			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

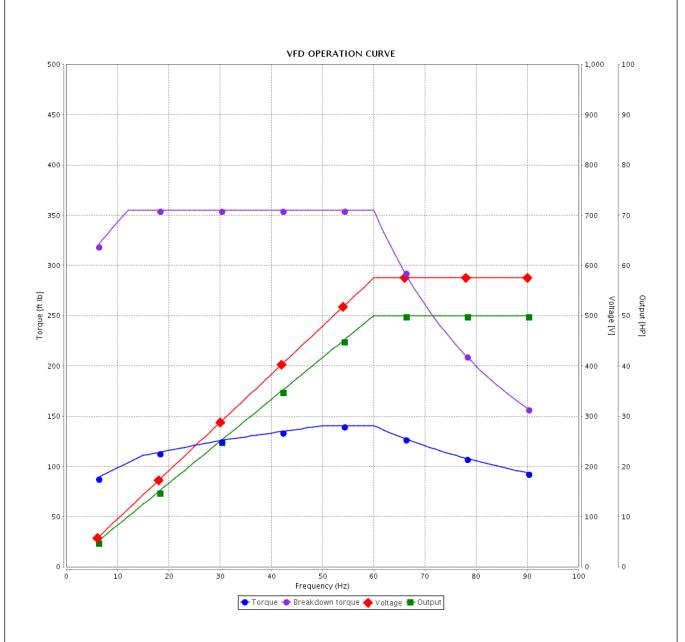
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837652

Catalog #: 05018OT3H326JMV-W40

6/6



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)	
Rated torque	: 148 ft.lb	Insulation class		: F	
Locked rotor torque	: 240 %	Service factor		: 1.25	
Breakdown torque	: 240 %	Temperature rise		: 80 K	
Rated speed	: 1775 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

10/04/2020

Date

