DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JM Pump NEMA Premium Product code: 14367672 Efficiency Three-Phase Catalog #: 05018OT3E326JM-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 : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 117/58.5 A Protection degree : IP23 L. R. Amperes : 737/369 A Cooling method : IC01 - ODP LRC : 6.3x(Code G) Mounting : F-1 No load current : 46.4/23.2 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 : 525 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

Max. compression

Drive end
Bearing typeDrive end
6312 Z C3Non drive end
6211 Z C3Sealing: Without Bearing Seal
Lubrication interval
Lubricant amount: 20000 hWithout Bearing Seal
20000 h

0.84

0.80

Lubricant type : Mobil Polyrex EM

0.70

Notes

Power Factor

USABLE @208V 129A SF 1.15 SFA 149A

0.44

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



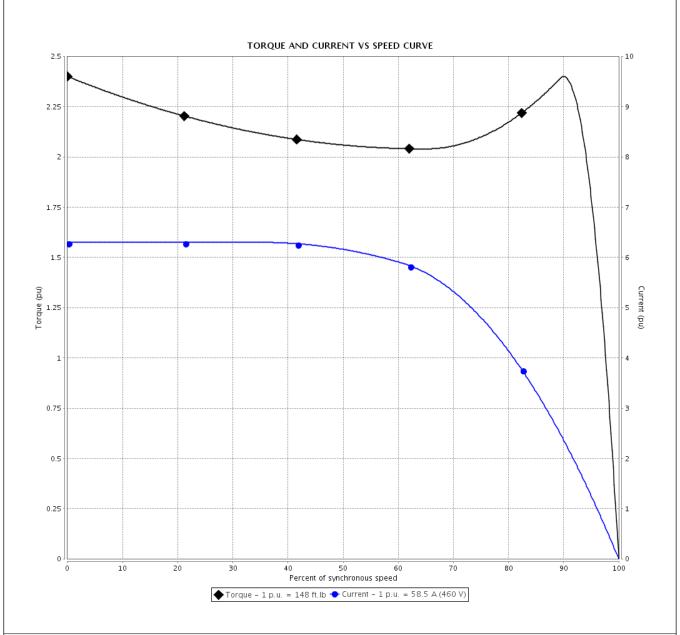
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14367672

Catalog # : 05018OT3E326JM-W40



: 230/460 V 60 Hz 4P Performance Rated current : 117/58.5 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



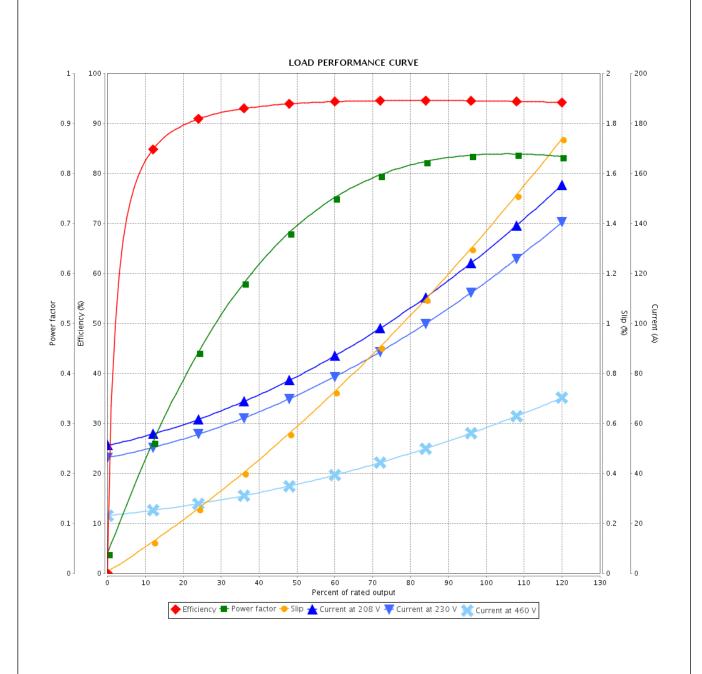
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14367672

Catalog #: 05018OT3E326JM-W40



Performance		: 230/460 V 60 Hz 4P						
Rated current :		17/58.5 A	Moment o	Moment of inertia (J)				
LRC : 6.0		.3	Duty cycle	Duty cycle				
Rated torque :		48 ft.lb	Insulation class		: F			
		40 %	Service fa	Service factor				
Breakdown torque		40 %	Temperati	Temperature rise				
Rated speed	: 1	775 rpm	Design		: B			
Rev.		Changes Summary		Performed	Checked	Date		
Doute was a dilay		I						
Performed by								
Checked by					Page	Revision		
Date	10/04/2020	1			3/6			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



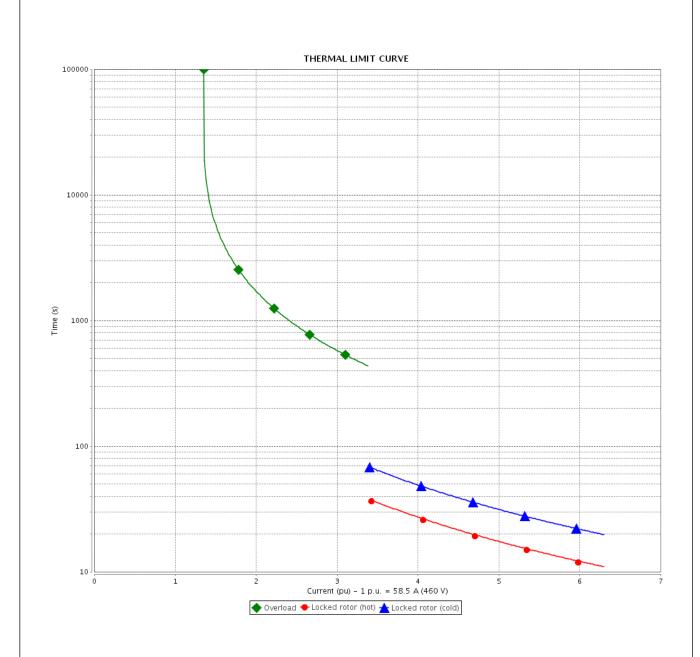
Customer	:				-	
Product line	: \ Et	N40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14367672 05018OT3E32	26JM-W40
Performance Rated current		30/460 V 60 Hz 4P 17/58.5 A	Moment of	inertia (I)	: 7.08 sq.ft.lb	
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6. : 14 ue : 24 e : 24		Duty cycle Insulation of Service factor Temperatur Design	class	: 7.06 Sq.1t.lib : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by	40/04/0005				Page	Revision

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 :

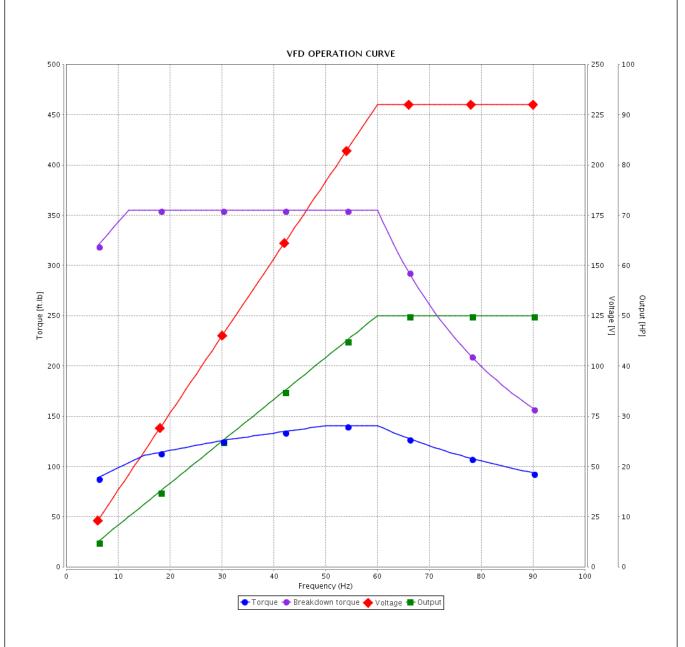
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14367672

Catalog #: 05018OT3E326JM-W40

6/6



			<u> </u>					
Performance	: 2	: 230/460 V 60 Hz 4P						
Rated current	: 1	17/58.5 A	Moment of	Moment of inertia (J)				
LRC	: 6	.3	Duty cycle	Duty cycle				
Rated torque		48 ft.lb	Insulation	Insulation class				
Locked rotor tord	que : 24	40 %	Service fa	Service factor		: 1.25		
Breakdown torqu	ue : 24	40 %	Temperat	Temperature rise				
Rated speed	: 1	775 rpm	Design		: B			
Rev.	Rev. Changes Summary		у	Performed	Checked	Date		
Performed by								
Checked by		1			Page	Revision		

10/04/2020

Date

