DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14367673 Efficiency Three-Phase Catalog #: 05018OT3E326JP-W40 Frame : 324/6JP 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 : 526 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

Max. traction

Max. compression

94.5

0.84

Lubricant amount : 21 g 11 g Lubricant type : Mobil Polyrex EM

94.5

0.80

Notes

Efficiency (%)

Power Factor

USABLE @208V 129A SF 1.15 SFA 149A

94.0

0.44

94.1

0.70

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



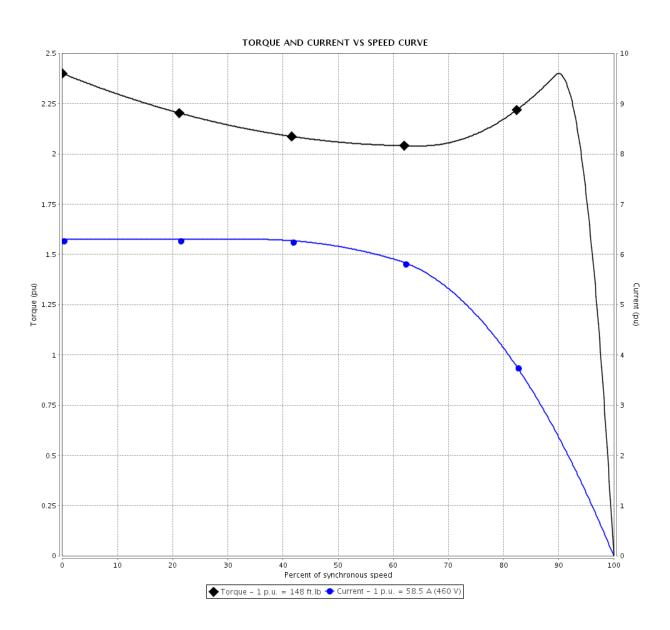
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14367673

Catalog #: 05018OT3E326JP-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)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



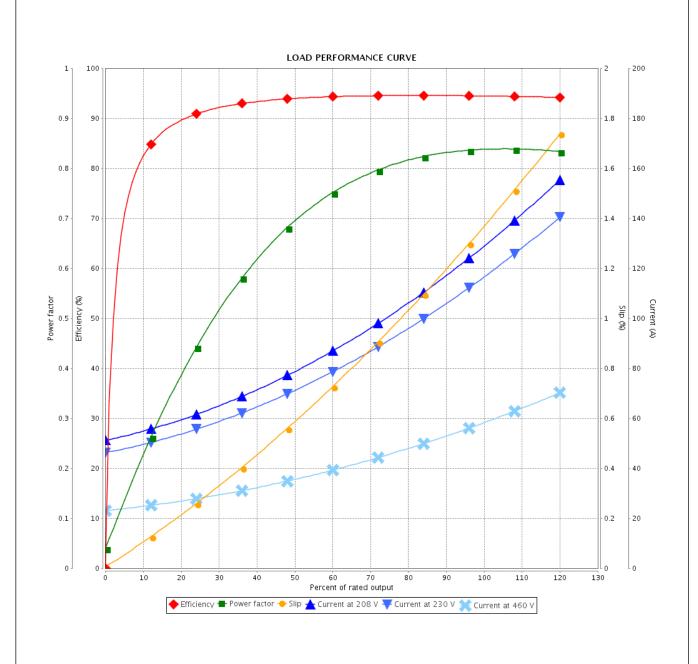
Customer

Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase

A Premium Product code :

14367673

Catalog #: 05018OT3E326JP-W40



Performance		: 230/460 V 60 Hz 4P						
Rated current		117/58.5 A Moment of iner		f 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	e ::	: 240 % Temperature rise Design		Temperature rise				
Rated speed	:				: B			
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Performed by								
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



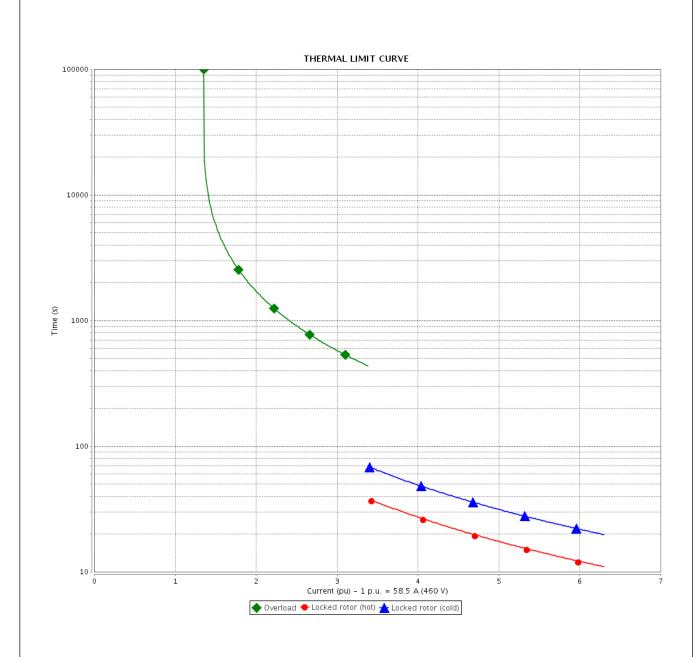
Customer	:					
Product line		Efficiency Three-Phase		Product code :	14367673 05018OT3E3	26JP-W40
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 11 : 6. : 14 gue : 24 se : 24 : 17	30/460 V 60 Hz 4P 17/58.5 A 3 48 ft.lb 40 % 40 % 775 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by	40/04/0002				Page	Revision

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

10/04/2020

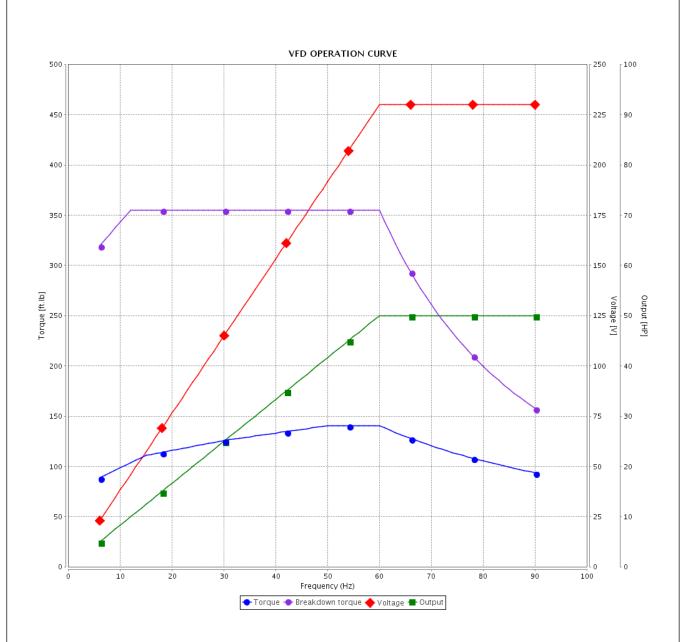
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14367673

Catalog #: 05018OT3E326JP-W40

6/6



Performance : 230/460 V 60 Hz 4P : 117/58.5 A Rated current Moment of inertia (J) : 7.08 sq.ft.lb **LRC** Duty cycle : 6.3 : Cont.(S1) Insulation class : 148 ft.lb : F Rated torque Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

