DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14490084 Efficiency Three-Phase Catalog #: 05018OT3H326JP-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 : 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 : 600 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 0.84 0.44 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



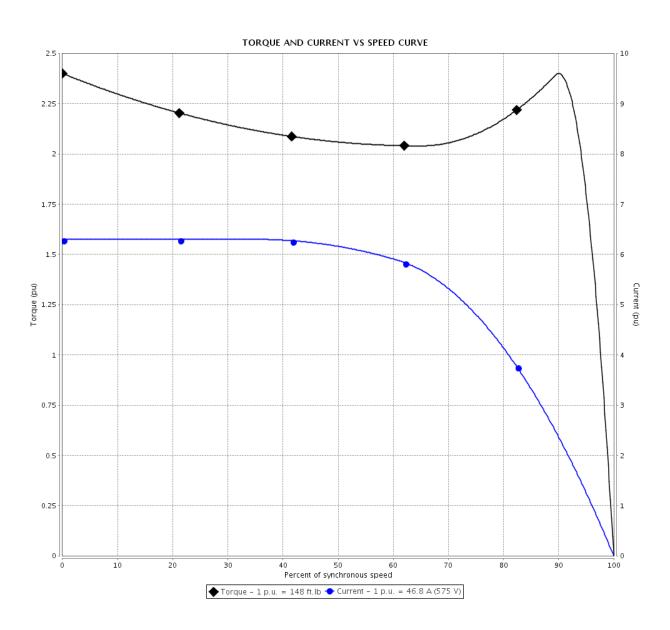
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490084

Catalog #: 05018OT3H326JP-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

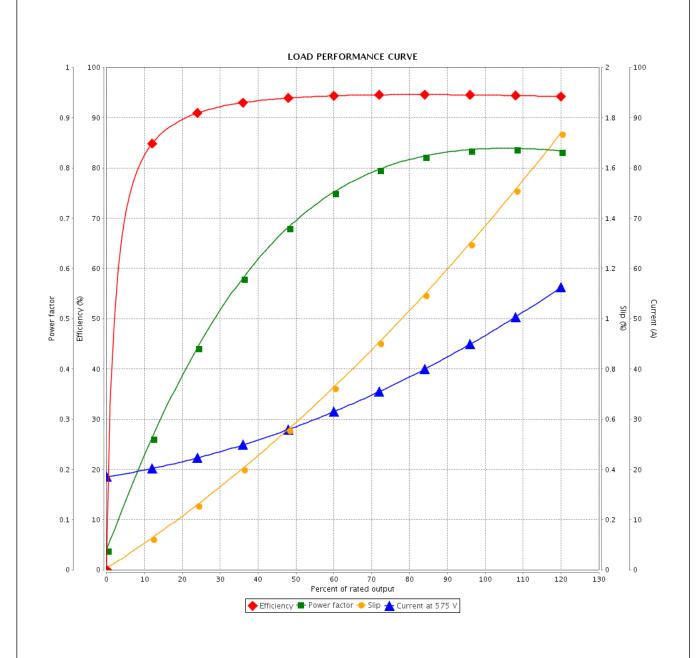
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490084

Catalog #: 05018OT3H326JP-W40

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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 Temperature rise Design		: 1.25 : 80 K : B	
Breakdown torque	: 240 %				
Rated speed	: 1775 rpm				
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Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



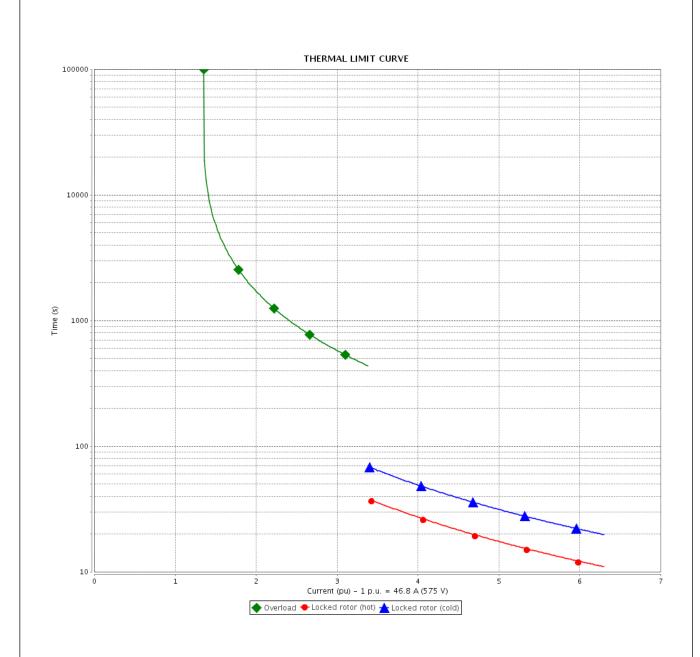
Customer	:					
Product line	: ¹ E	W40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14490084 05018OT3H3	26JP-W40
Performance		75 V 60 Hz 4P	NA	5 : (1)	. 7.00 # !!-	
Rated current LRC	: 6		Duty cycle	f inertia (J)	: 7.08 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torq		48 ft.lb 40 %	Insulation Service fa		: F : 1.25	
Breakdown torque : 240 % Rated speed : 1775 rpm		Temperature rise : 80 K Design : B		: 80 K		
Heating constant		•	- J.··			
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 :

Date

10/04/2020

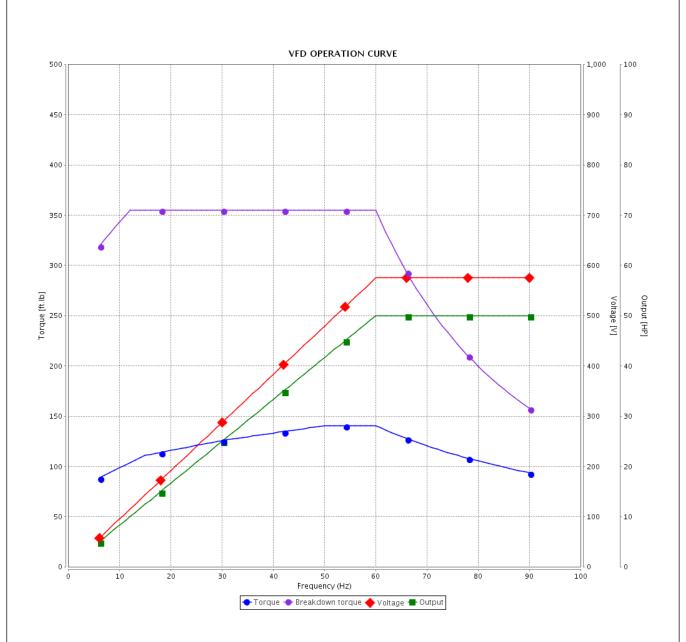
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490084

Catalog #: 05018OT3H326JP-W40

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Performance : 575 V 60 Hz 4P Rated current : 46.8 A Moment of inertia (J) : 7.08 sq.ft.lb **LRC** Duty cycle : 6.3 : Cont.(S1) : 148 ft.lb Insulation class : 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

