DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump High Efficiency Product code: 14830338 Three-Phase Catalog #: 05036OP3VFP324JPV-W4 Frame : 324/6JP Locked rotor time : 36s (cold) 20s (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 : 200/400 V : 1000 m.a.s.l. Altitude Rated current : 134/67.2 A Protection degree : IP23 L. R. Amperes : 779/390 A Cooling method : IC01 - ODP LRC : 5.8x(Code F) Mounting : W-6 No load current : 38.9/19.4 A Rotation¹ : Both (CW and CCW) Rated speed : 3555 rpm Starting method : Direct On Line Slip : 1.25 % Approx. weight³ : 443 lb Rated torque : 73.9 ft.lb Locked rotor torque : 170 % Breakdown torque : 200 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 3.01 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 91.5 91.7 92.4 92.4 Max. traction Power Factor 0.86 0.54 0.78 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 9829 h 14226 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



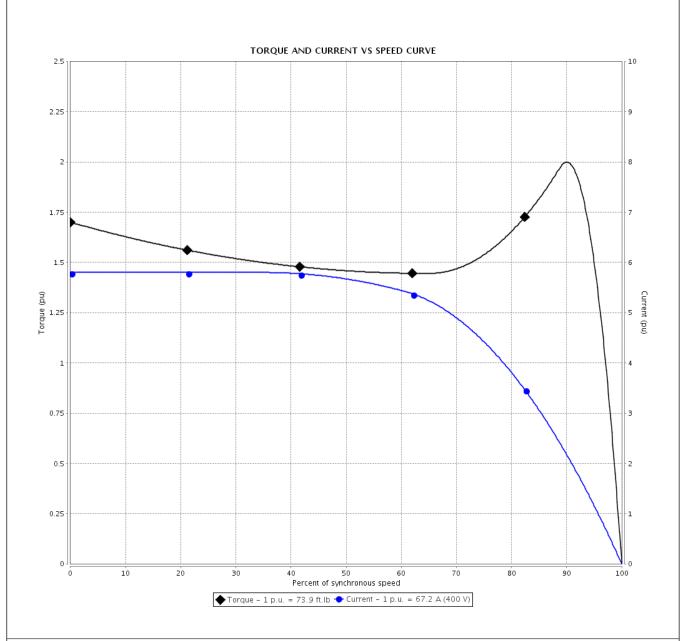
Customer :

Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14830338

Catalog #: 05036OP3VFP324JPV-W4



: 200/400 V 60 Hz 2P Performance Rated current : 134/67.2 A Moment of inertia (J) : 3.01 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : F : 73.9 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 170 % : 1.15 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



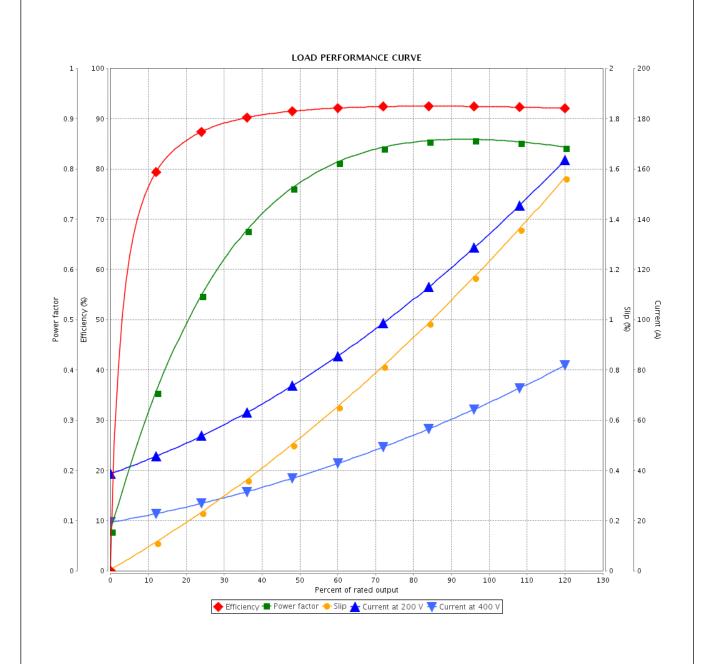
Customer :

Product line : W40 JP Pump High Efficiency Product code :

Three-Phase

roduct code: 14830338

Catalog #: 05036OP3VFP324JPV-W4



Performance		: 200/400 V 60 Hz 2P						
Rated current		134/67.2 A	.2 A Moment of inertia (J)		: 3.01 sq.ft.lb			
LRC :		5.8	Duty cycle	Duty cycle				
Rated torque		73.9 ft.lb	Insulation class		:F			
Locked rotor torque		170 %	Service fa	Service factor				
Breakdown torque	: 2	200 %	Temperature rise		: 80 K			
Rated speed	: 3	3555 rpm Design			: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



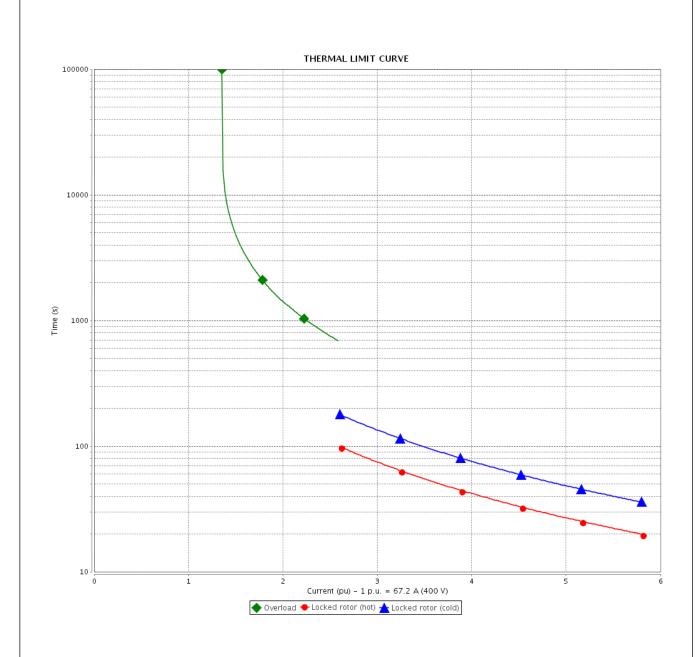
Customer	:					
Product line	: \ Tt	W40 JP Pump High Efficien nree-Phase		Product code :	14830338 05036OP3VF	P324JPV-W4
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13 : 5. : 73 ue : 17 e : 20 : 38	00/400 V 60 Hz 2P 34/67.2 A 8 3.9 ft.lb 70 % 00 % 555 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 3.01 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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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 :

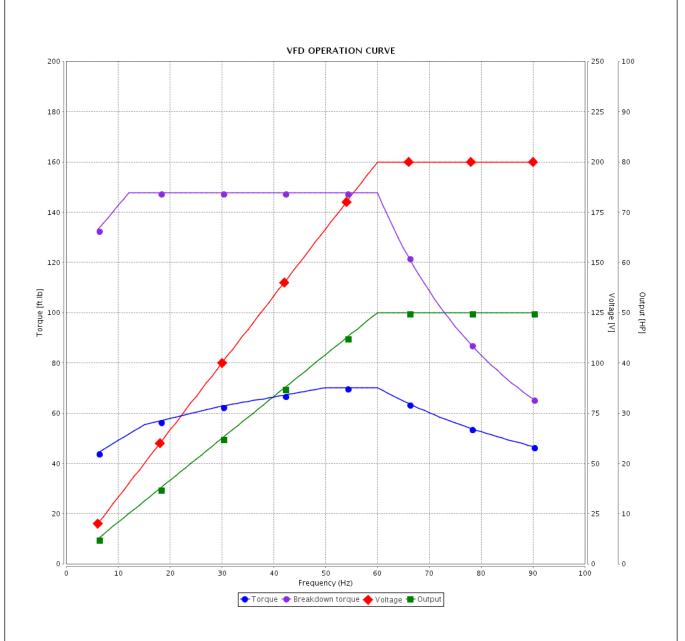
Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14830338

Catalog #: 05036OP3VFP324JPV-W4

6/6



Performance	: 200/400 V 60 Hz 2P					
Rated current	: 134/67.2 A Moment of inertia (J)		f inertia (J)	: 3.01 sq.ft.lb		
LRC	: 5.8	Duty cycle		: Cont.(S1)		
Rated torque	: 73.9 ft.lb Insulati		class	: F		
Locked rotor torque	: 170 %	: 170 % Service factor : 200 % Temperature rise : 3555 rpm Design		: 1.15		
Breakdown torque	: 200 %			: 80 K		
Rated speed	: 3555 rpm			: B		
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Performed by						
Checked by				Page	Revision	

13/04/2020

Date

