DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump High Efficiency Product code: 14830324 Three-Phase Catalog #: 04018OP3VFP324JPV-W4 Frame : 324/6JP Locked rotor time : 36s (cold) 20s (hot) Output : 40 HP (30 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 : 111/55.4 A Protection degree : IP23 L. R. Amperes : 665/333 A Cooling method : IC01 - ODP LRC : 6.0x(Code G) Mounting : W-6 No load current : 36.8/18.4 A Rotation¹ : Both (CW and CCW) Rated speed : 1775 rpm Starting method : Direct On Line Slip : 1.39 % Approx. weight³ : 453 lb Rated torque : 118 ft.lb Locked rotor torque : 180 % Breakdown torque : 210 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 5.37 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads Efficiency (%) 92.2 92.4 93.0 93.0 Max. traction Power Factor 0.84 0.48 0.72 0.81 Max. compression Non drive end Drive end Bearing type 6312 Z C3 6211 Z C3 Sealing Without Bearing Seal Without Bearing Seal

Lubricant amount : 21 g
Lubricant type : Mobil Polyrex EM

20000 h

Notes

Lubrication interval

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.

20000 h

11 g

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



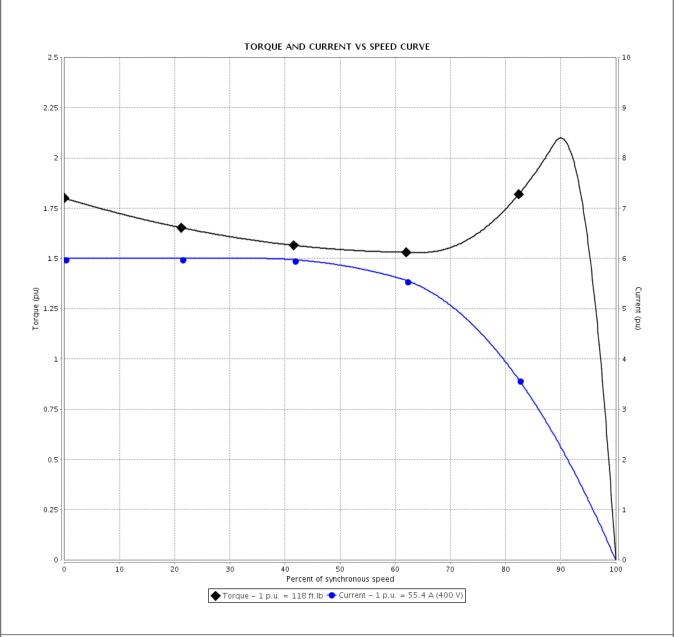
Customer :

Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14830324

Catalog #: 04018OP3VFP324JPV-W4



: 200/400 V 60 Hz 4P Performance Rated current : 111/55.4 A Moment of inertia (J) : 5.37 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 118 ft.lb : F Service factor Locked rotor torque : 180 % : 1.15 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



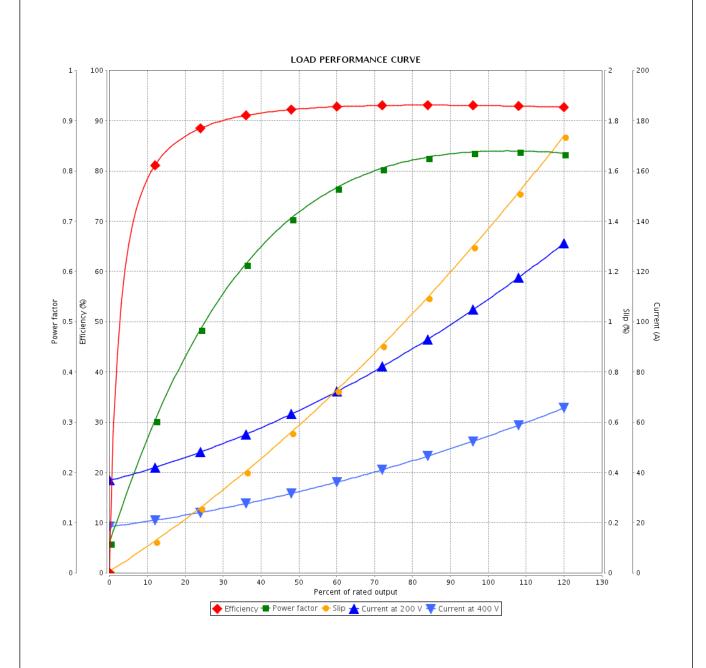
Customer

: W40 JP Pump High Efficiency Product line

Three-Phase

Product code: 14830324

Catalog #: 04018OP3VFP324JPV-W4



Performance :		: 200/400 V 60 Hz 4P						
Rated current : 1		1/55.4 A	Moment o	Moment of inertia (J)				
LRC : 6.0		0	Duty cycle	Duty cycle				
Rated torque : 11		8 ft.lb	Insulation class		: F			
Locked rotor torque : 18		30 %	Service fa	Service factor				
Breakdown torque :		10 %	Temperati	Temperature rise				
Rated speed	: 17	775 rpm Design		: B				
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



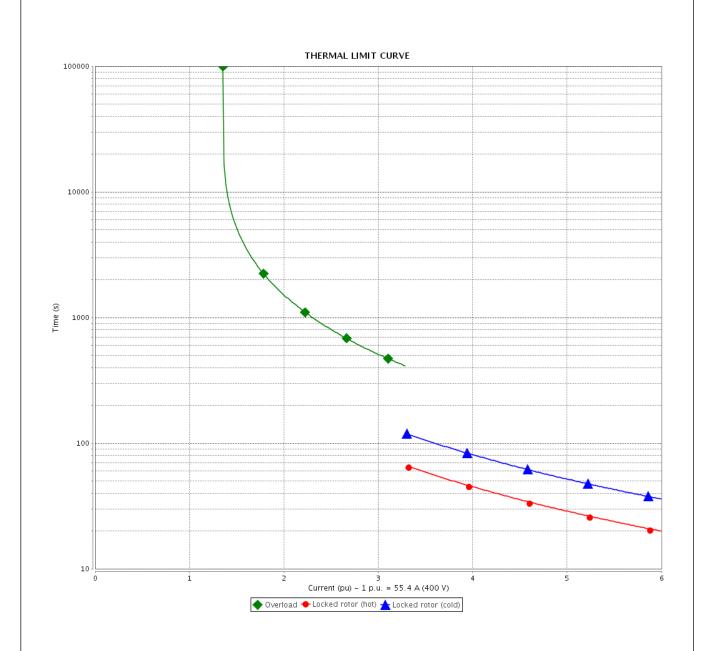
Customer	:				,	
Product line	: \ Tt	W40 JP Pump High Efficien nree-Phase	cy I	Product code :	14830324	
	•••	nee i naee	(Catalog # :	04018OP3VF	P324JPV-W4
Performance	: 20	00/400 V 60 Hz 4P				
Rated current LRC	: 11 : 6.	1/55.4 A	Moment of	f inertia (J)	: 5.37 sq.ft.lb	
Rated torque	: 11	8 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torqu		80 %	Service fac		: 1.15	
Breakdown torque Rated speed		10 % 775 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant						
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 :

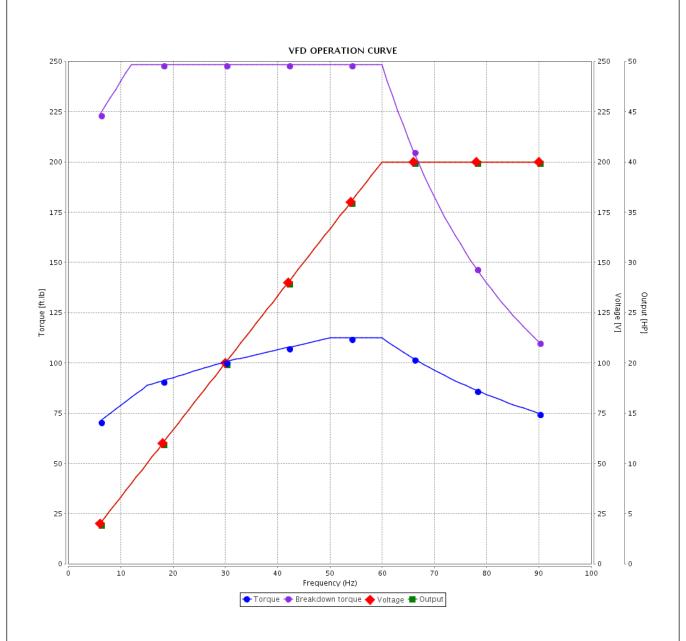
Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14830324

Catalog #: 04018OP3VFP324JPV-W4

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Performance	: 200/400 V 60 Hz 4P				
Rated current	: 111/55.4 A	Moment of inertia (J)		: 5.37 sq.ft.lb	
LRC	: 6.0	Duty cycle		: Cont.(S1)	
Rated torque	: 118 ft.lb	Insulation class		:F ` ´	
Locked rotor torque	: 180 %	Service factor		: 1.15	
Breakdown torque	: 210 %	Temperature rise		: 80 K	
Rated speed	: 1775 rpm	Design		: B	
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Performed by					
Checked by				Page	Revision

10/04/2020

Date

