DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump High Efficiency Product code: 14829358 Three-Phase Catalog #: 05018OP3VFP326JPV-W4 Frame : 324/6JP Locked rotor time : 27s (cold) 15s (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 : 138/69.2 A Protection degree : IP23 L. R. Amperes : 831/415 A Cooling method : IC01 - ODP LRC : 6.0x(Code G) Mounting : W-6 : 61.6/30.8 A No load current Rotation¹ : Both (CW and CCW) Rated speed : 1775 rpm Starting method : Direct On Line Slip : 1.39 % Approx. weight³ : 476 lb Rated torque : 148 ft.lb Locked rotor torque : 240 % : 229 % Breakdown torque Insulation class : F Service factor : 1.15 Moment of inertia (J) : 5.98 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 93.0 Efficiency (%) 92.2 92.4 93.0 Max. traction Power Factor 0.41 0.67 0.78 0.83 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



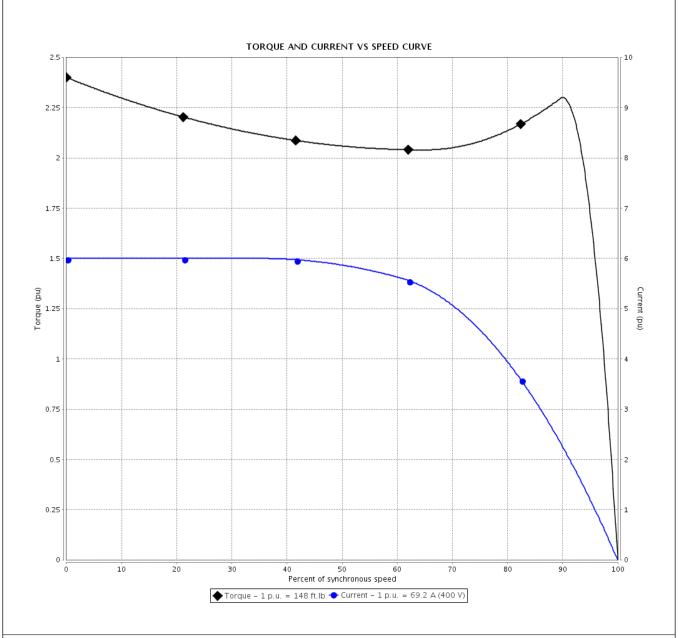
Customer :

Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14829358

Catalog #: 05018OP3VFP326JPV-W4



: 200/400 V 60 Hz 4P Performance Rated current : 138/69.2 A Moment of inertia (J) : 5.98 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 148 ft.lb : F Service factor Locked rotor torque : 240 % : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

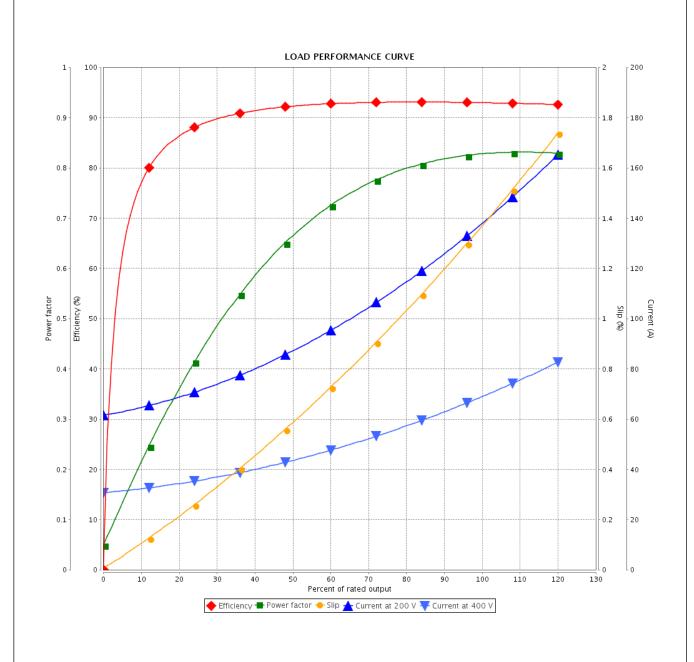
Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14829358

Catalog #: 05018OP3VFP326JPV-W4

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Performance	: 200/400 V 60 Hz 4P	: 200/400 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 138/69.2 A : 6.0 : 148 ft.lb : 240 % : 229 % : 1775 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 5.98 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B					
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Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



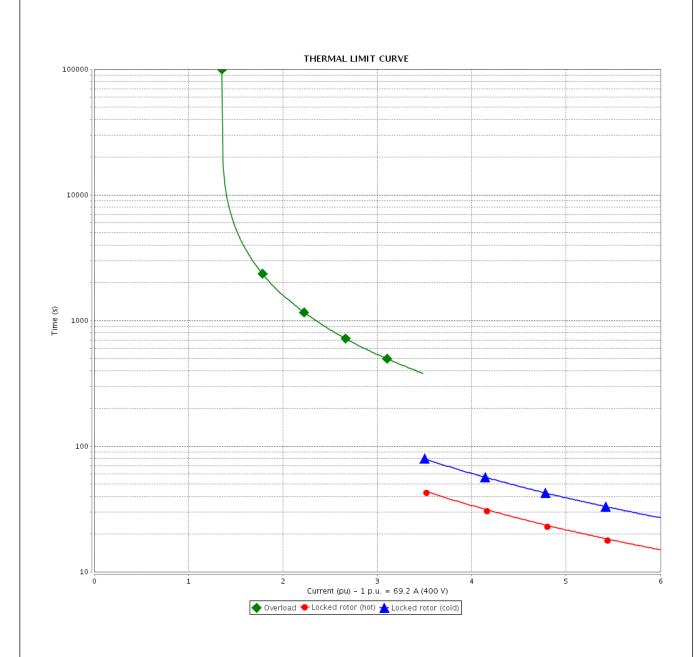
Customer	:					
Product line	: \	W40 JP Pump High Efficien	cy I	Product code :	14829358	
	Tł	nree-Phase	(Catalog # :	05018OP3VF	P326JPV-W4
Performance Rated current		00/400 V 60 Hz 4P 38/69.2 A	Moment of	finertia (I)	: 5.98 sq.ft.lb	
LRC	: 6.	0	Duty cycle		: Cont.(S1)	
Rated torque		: 148 ft.lb Insulation			: F : 1.15	
Locked rotor torqu Breakdown torque		240 % Service fa 229 % Temperate			: 1.15 : 80 K	
Rated speed		775 rpm	Design		: B	
Heating 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 :

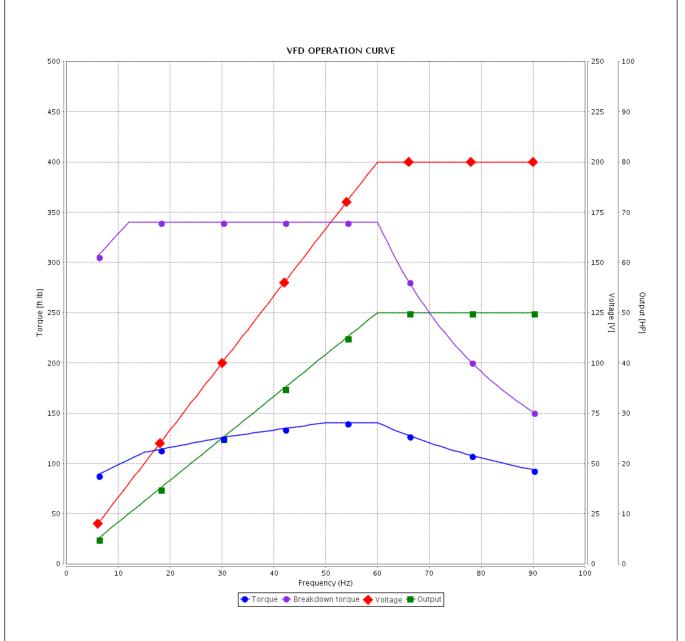
Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14829358

Catalog #: 05018OP3VFP326JPV-W4

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Performance	: 200/400 V 60 Hz 4P						
Rated current	: 138/69.2 A Moment of inertia (J)		(J)	: 5.98 sq.ft.lb			
LRC	: 6.0	Duty cycle		: Cont.(S1)			
Rated torque	: 148 ft.lb	Insulation class		: F			
Locked rotor torque	: 240 %	Service factor Temperature rise		: 1.15			
Breakdown torque	: 229 %			: 80 K			
Rated speed	: 1775 rpm	Design		: B			
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