DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump High Efficiency Product code: 14830323 Three-Phase 04018OP3HFP324JPV-Catalog #: Frame : 324/6JP Locked rotor time : 36s (cold) 20s (hot) Output : 40 HP (30 kW) Temperature rise : 80 K : Cont.(S1) Poles : 4 Duty cycle : -20°C to +40°C : 60 Hz Ambient temperature Frequency Rated voltage : 575 V Altitude : 1000 m.a.s.l. Protection degree Rated current : 38.6 A : IP23 : IC01 - ODP L. R. Amperes : 231 A Cooling method **LRC** : 6.0x(Code G) Mounting : W-6 No load current : 12.8 A Rotation¹ : Both (CW and CCW) Rated speed Starting method : Direct On Line : 1775 rpm Slip : 1.39 % Approx. weight³ : 452 lb Rated torque : 118 ft.lb : 180 % Locked rotor torque Breakdown torque : 210 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 5.37 sq.ft.lb Design : B Output 25% 50% 75% 100% Foundation loads Efficiency (%) 92.2 92.4 93.0 93.0 Max. traction Power Factor 0.48 0.72 0.81 0.84 Max. compression Drive end Non drive end Bearing type 6312 Z C3 6211 Z C3 Without Bearing Seal Without Bearing Seal Sealing Lubrication interval 20000 h 20000 h

Mobil Polyrex EM

21 g

Notes

Lubricant amount

Lubricant type

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

11 g

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MG-1.

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

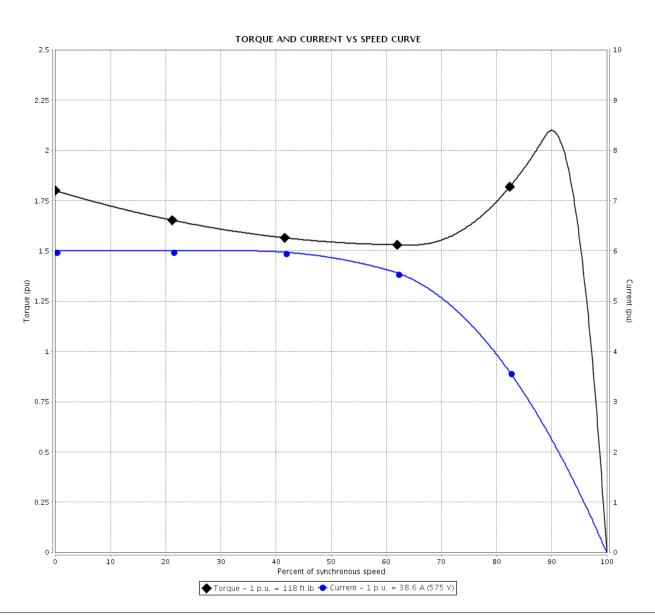
Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14830323

Catalog #: 04018OP3HFP324JPV-

W4



: 575 V 60 Hz 4P Performance Rated current : 38.6 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

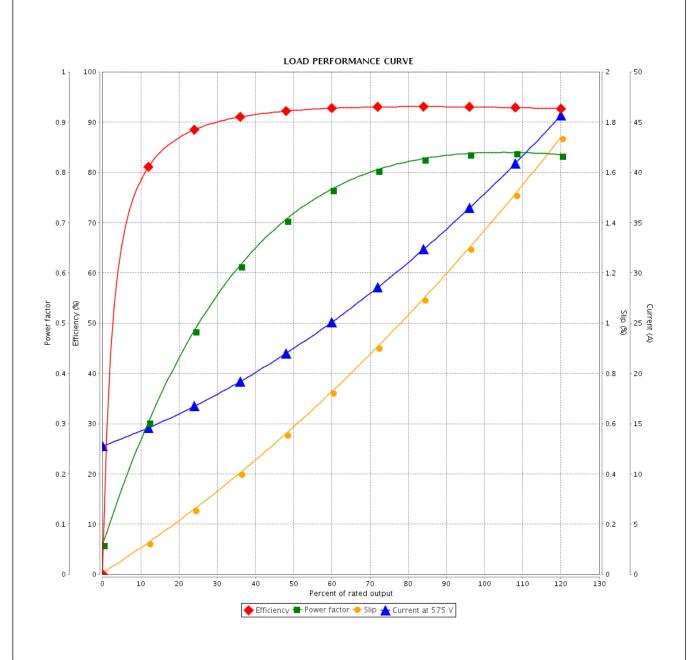
Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14830323

Catalog #: 04018OP3HFP324JPV-

W4



Performance : 5		575 V 60 Hz 4P				
Rated current		38.6 A	Moment of inertia (J)		: 5.37 sq.ft.lb	
LRC		6.0	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torque		: 118 ft.lb Insulation class : 180 % Service factor		class	: F	
				ctor	: 1.15	
Breakdown torqu	ie :	: 210 % Temperature rise Design		ıre rise	: 80 K	
Rated speed	:			: B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



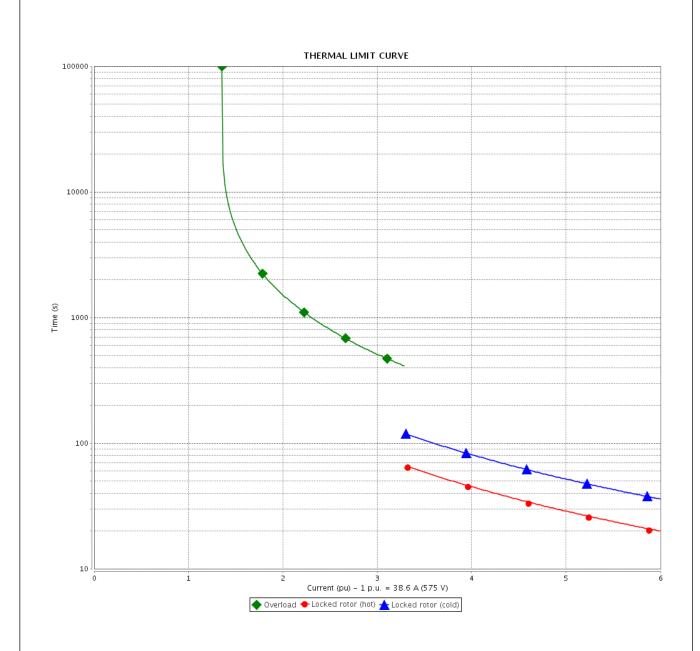
Customer	:					
Product line	: \	N40 JP Pump High Efficien	ıcy l	Product code :	14830323	
	Ti	nree-Phase	(Catalog # :	04018OP3HF	P324JPV-
					W4	. 02.0
D. f		75.1/00.11.40				
Performance Rated current		75 V 60 Hz 4P 3.6 A	Moment of	f inertia (J)	: 5.37 sq.ft.lb	
LRC	: 6.	0	Duty cycle	!	: Cont.(S1)	
Rated torque Locked rotor torqu		8 ft.lb 30 %	Insulation Service fa		: F : 1.15	
Breakdown torque	: 21	10 %	Temperatu		: 80 K	
Rated speed	: 17	775 rpm	Design		: B	
Heating constant						
Cooling constant		Changes O		Derf	Ohl !	D-4-
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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



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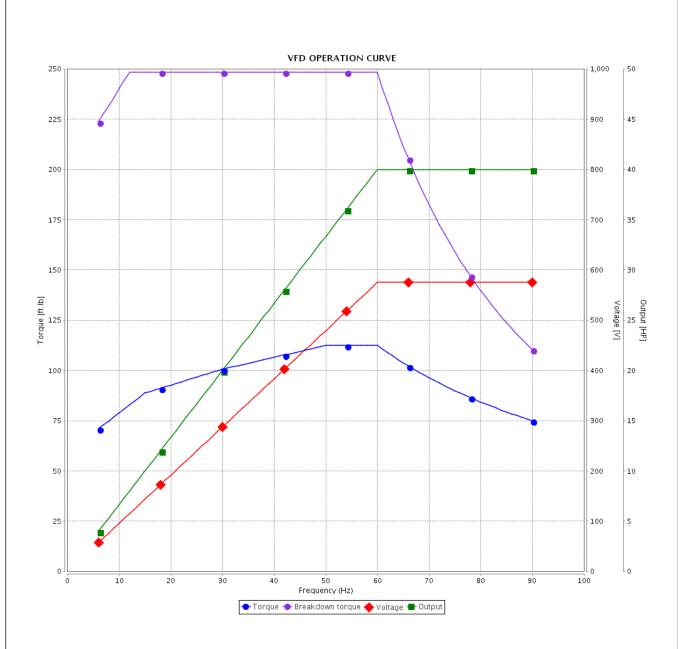
Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14830323

Catalog #: 04018OP3HFP324JPV-

W/4



Performance : 575 V 60 Hz 4P Rated current : 38.6 A Moment of inertia (J) : 5.37 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.0 Insulation class Rated torque : 118 ft.lb : F Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

