DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14836785 Efficiency Three-Phase Catalog #: 04018OT3V324JPV-W40 Frame : 324/6JP Locked rotor time : 23s (cold) 13s (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 : 109/54.7 A Protection degree : IP23 L. R. Amperes : 679/339 A Cooling method : IC01 - ODP LRC : 6.2x(Code G) Mounting : W-6 No load current : 42.5/21.3 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 : 118 ft.lb Approx. weight³ : 465 lb Locked rotor torque : 200 % Breakdown torque : 240 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 5.69 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 93.5 93.6 94.1 94.1 Max. traction Power Factor 0.80 0.84 0.44 0.70 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



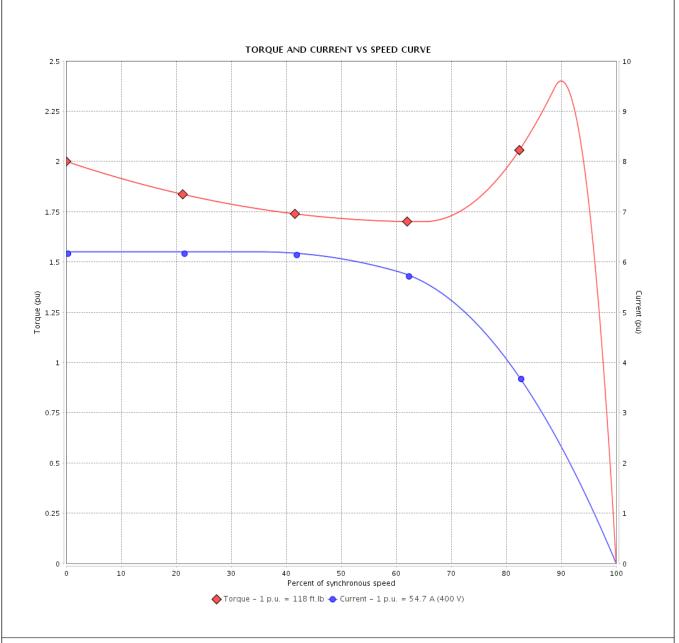
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836785

Catalog #: 04018OT3V324JPV-W40



: 200/400 V 60 Hz 4P Performance Rated current : 109/54.7 A Moment of inertia (J) : 5.69 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 118 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25

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

Locked rotor time : 23s (cold) 13s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



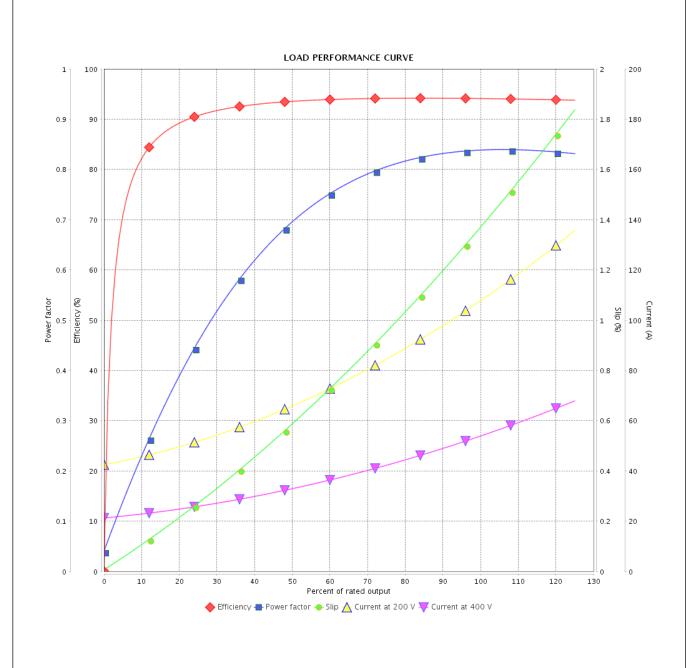
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836785

Catalog #: 04018OT3V324JPV-W40



Performance		00/400 V 60 Hz 4P				
Rated current		09/54.7 A	Moment of inertia (J)		: 5.69 sq.ft.lb	
LRC : 6.2		.2	Duty cycle		: Cont.(S1)	
Rated torque :		18 ft.lb	Insulation class		: F	
Locked rotor torque :		00 %	Service factor		: 1.25	
Breakdown torque	: 2	40 %	Temperature rise		: 80 K	
Rated speed	: 1	775 rpm	Design		: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



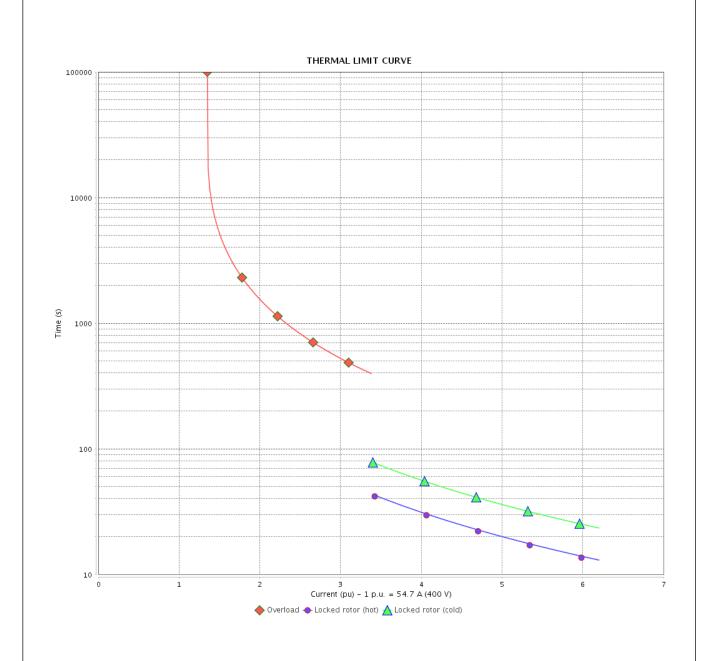
Customer	:					
Product line	:' E	W40 JP Pump NEMA Prem fficiency Three-Phase		Product code : Catalog # :	14836785 04018OT3V32	24JPV-W40
Performance	. 20	00/400 V 60 Hz 4P				
Rated current		09/54.7 A	Moment of	f inertia (J)	: 5.69 sq.ft.lb	
LRC	: 6	.2	Duty cycle	!	: Cont.(S1)	
Rated torque Locked rotor torq		18 ft.lb 00 %	Insulation Service fa		: F : 1.25	
Breakdown torqu Rated speed	ie : 2	40 % 775 rpm	Temperatu Design		: 80 K : B	
Heating constant		· · - · r ····			· -	
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



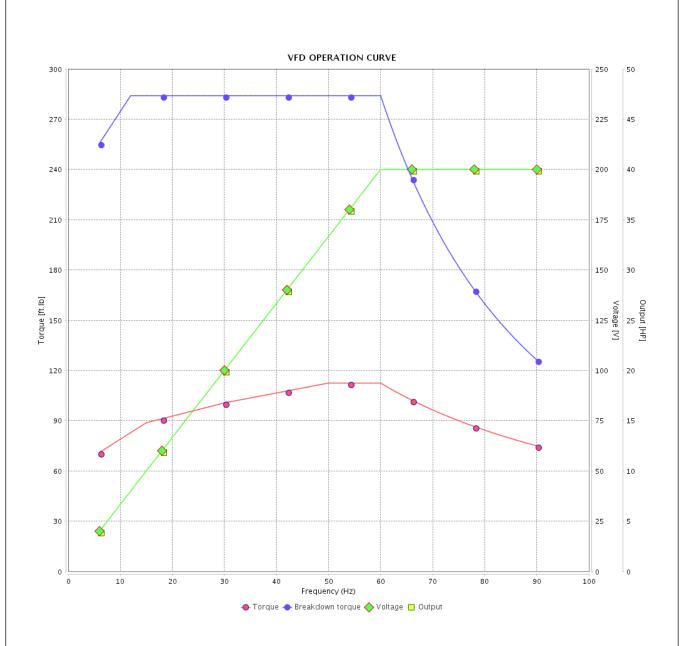
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836785

Catalog #: 04018OT3V324JPV-W40



Performance : 200/400 V 60 Hz 4P : 109/54.7 A Moment of inertia (J) : 5.69 sq.ft.lb Rated current **LRC** : 6.2 Duty cycle : Cont.(S1) : 118 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

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