DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14836547 Efficiency Three-Phase Catalog #: 10018OT3V404JPV-W40 Frame : 404/5JP Locked rotor time : 21s (cold) 12s (hot) Output : 100 HP (75 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 : 265/132 A Protection degree : IP23 L. R. Amperes : 1799/899 A Cooling method : IC01 - ODP LRC : 6.8x(Code G) Mounting : W-6 No load current : 91.3/45.7 A Rotation¹ : Both (CW and CCW) Rated speed : 1780 rpm Noise level² : 69.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 295 ft.lb Approx. weight³ : 931 lb Locked rotor torque : 200 % Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 21.9 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 94.9 95.4 Efficiency (%) 95.0 95.4 Max. traction : 1746 lb Power Factor 0.86 0.49 0.75 0.83 Max. compression : 2677 lb Non drive end Drive end 6314 C3 Bearing type 6212 Z C3

Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 19579 h 20000 h

Lubricant amount 13 g 27 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



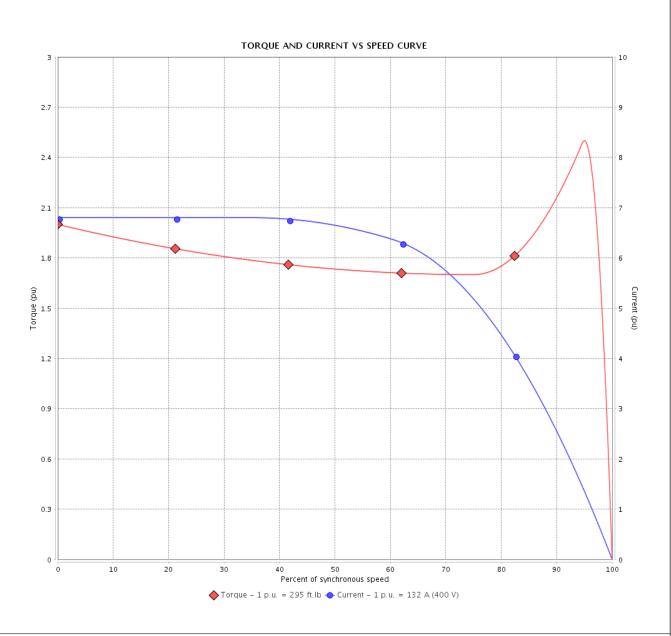
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836547

Catalog #: 10018OT3V404JPV-W40



: 200/400 V 60 Hz 4P Performance Rated current : 265/132 A Moment of inertia (J) : 21.9 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 295 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



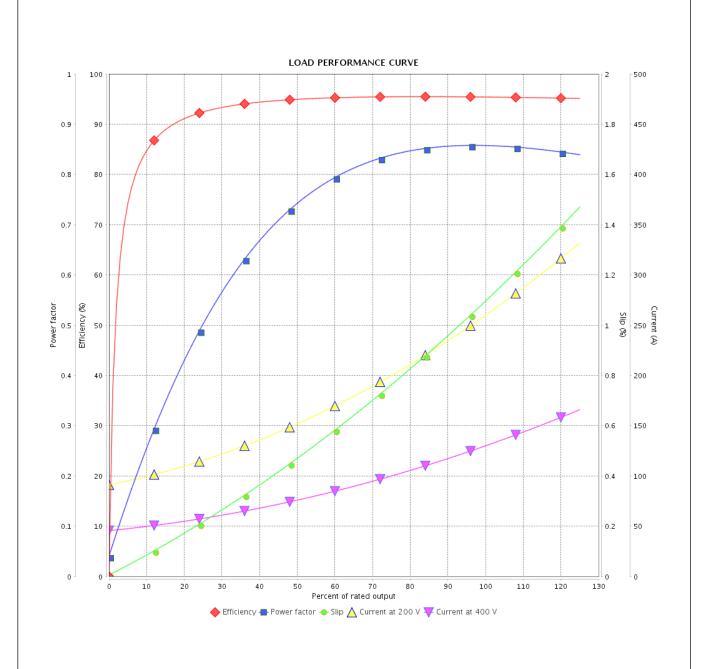
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836547

Catalog #: 10018OT3V404JPV-W40



Performance	:	200/400 V 60 Hz 4P	1			
Rated current		265/132 A	Moment of inertia (J)		: 21.9 sq.ft.lb	
LRC		6.8	Duty cycle	Duty cycle		
Rated torque		295 ft.lb	Insulation	Insulation class		
Locked rotor torque		200 %	Service fa	Service factor		
Breakdown torque	e :	250 %	Temperati	Temperature rise		
Rated speed	:	1780 rpm) rpm Design		: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



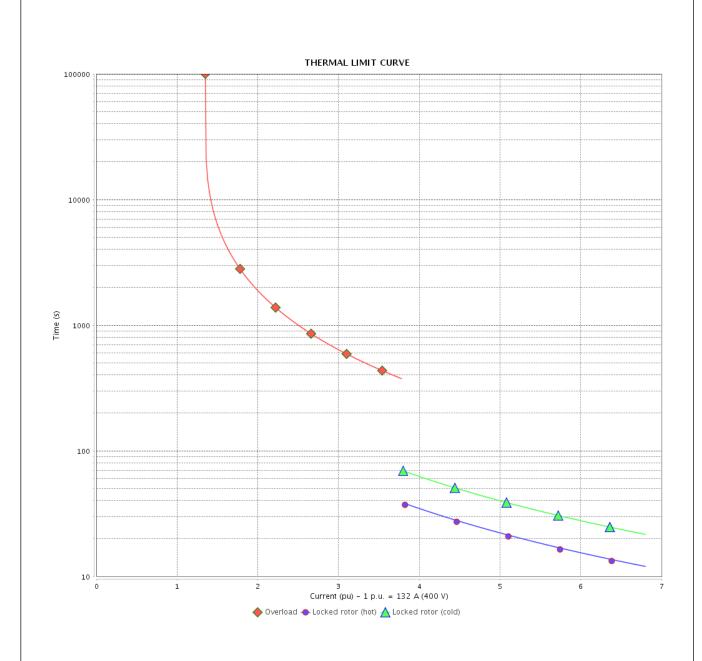
Customer	:					
Product line	: \ E1	W40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14836547 10018OT3V4	04JPV-W40
Performance	• 20	00/400 V 60 Hz 4P				
Rated current	: 26	65/132 A	Moment of	f inertia (J)	: 21.9 sq.ft.lb	
LRC Rated torque	: 6. · 20	8 95 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torqu	ie : 20	00 %	Service fac	ctor	: 1.25	
Breakdown torque Rated speed	: 25	50 % 780 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant						
Cooling constant						
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Checked by					Page	Revision

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

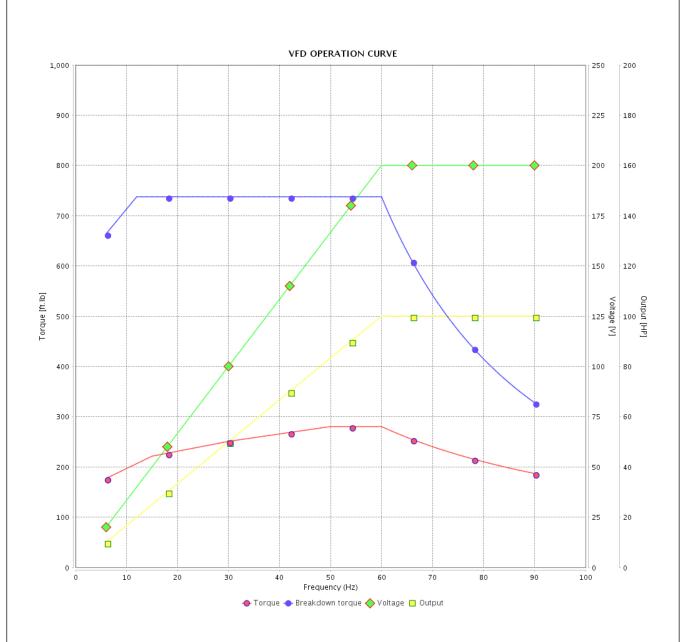
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836547

Catalog #: 10018OT3V404JPV-W40

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Performance	: 200/400 V 60 Hz 4P				
Rated current	: 265/132 A	: 265/132 A Moment of inertia (J)		: 21.9 sq.ft.lb	
LRC	: 6.8	Duty cycle		: Cont.(S1)	
Rated torque	: 295 ft.lb	Insulation class		:F	
Locked rotor torque	: 200 %	Service factor		: 1.25	
Breakdown torque	: 250 %	Temperature rise		: 80 K	
Rated speed	: 1780 rpm	Design		: B	
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Checked by				Page	Revision

14/04/2022

Date

