DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14490306 Efficiency Three-Phase Catalog #: 05036OT3V324JP-W40 Frame : 324JP Locked rotor time : 25s (cold) 14s (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 : 137/68.3 A Protection degree : IP23 L. R. Amperes : 861/430 A Cooling method : IC01 - ODP LRC : 6.3x(Code G) Mounting : F-1 No load current : 51.7/25.9 A Rotation¹ : Both (CW and CCW) Rated speed : 3560 rpm Noise level² : 75.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 73.8 ft.lb Approx. weight³ : 528 lb Locked rotor torque : 200 % Breakdown torque : 220 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 3.02 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 91.5 91.7 93.0 93.0 Max. traction Power Factor 0.84 0.46 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 Lubrication interval 19658 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



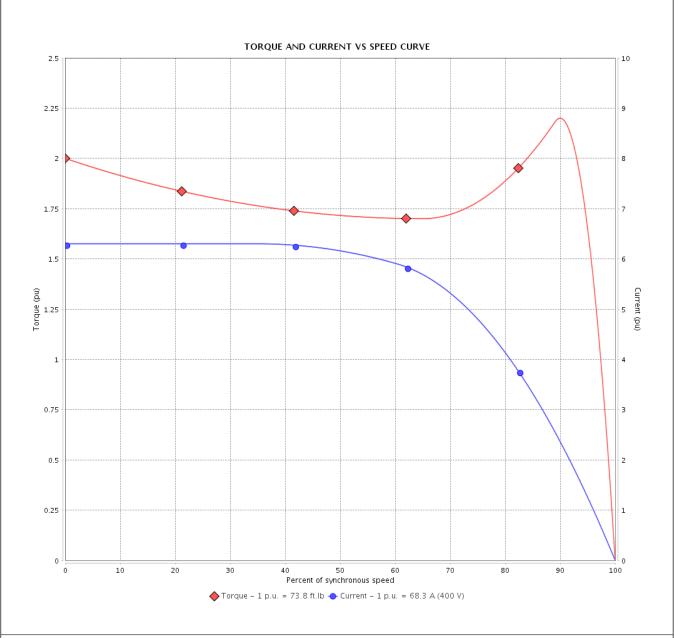
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490306

Catalog #: 05036OT3V324JP-W40



 Performance
 : 200/400 V 60 Hz 2P

 Rated current
 : 137/68.3 A
 Moment of inertia (J)
 : 3.02 sq.ft.lb

 LRC
 : 6.3
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 73.8 ft.lb
 Insulation class
 : F

Locked rotor torque: 200 %Service factor: 1.25Breakdown torque: 220 %Temperature rise: 80 KRated speed: 3560 rpmDesign: B

Locked rotor time : 25s (cold) 14s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



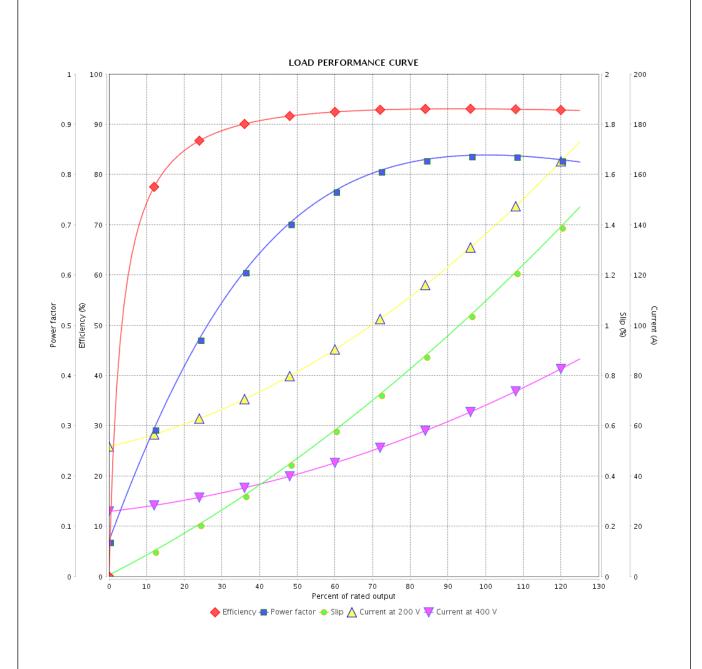
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490306

Catalog #: 05036OT3V324JP-W40



Performance	:	: 200/400 V 60 Hz 2P						
Rated current		137/68.3 A	7/68.3 A Moment of inertia (J)		: 3.02 sq.ft.lb			
LRC		6.3	Duty cycle	Duty cycle				
Rated torque		73.8 ft.lb	Insulation class		: F			
Locked rotor torque		200 %	Service fa	Service factor				
Breakdown torque	:	220 %	Temperati	Temperature rise				
Rated speed	:	Design		: B				
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



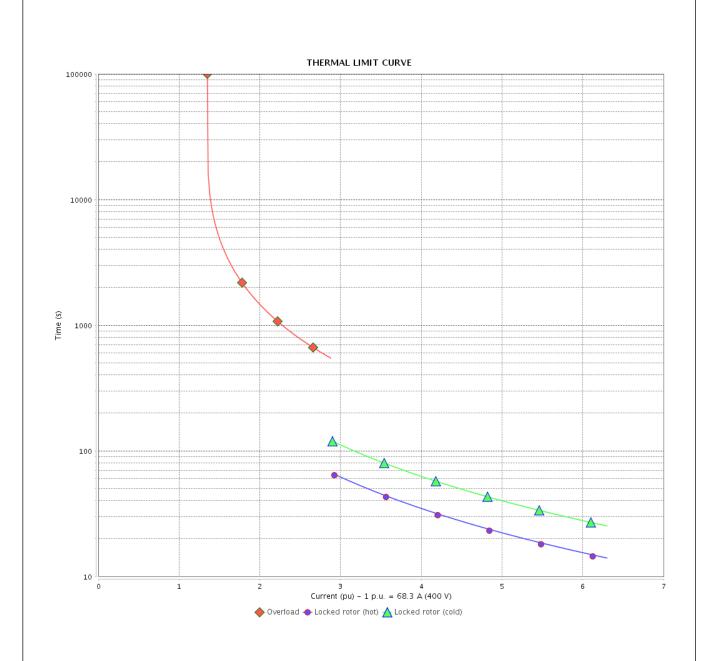
Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14490306 05036OT3V32	24JP-W40
Performance	:	200/400 V 60 Hz 2P				
Rated current LRC		137/68.3 A 6.3	Moment of Duty cycle	of inertia (J)	: 3.02 sq.ft.lb : Cont.(S1)	
Rated torque	:	73.8 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		200 % 220 %	Service fa Temperati		: 1.25 : 80 K	
Rated speed		3560 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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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 :

Checked by

Date

12/04/2022

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

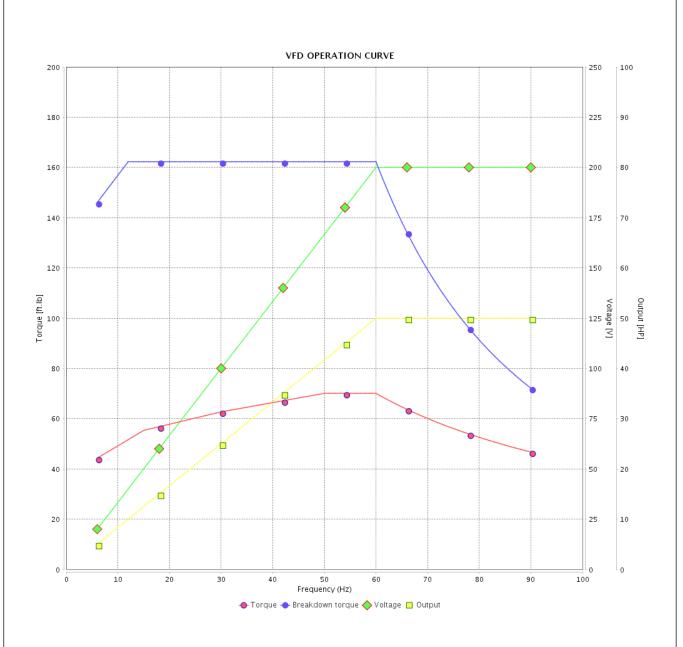
Product code: 14490306

Catalog #: 05036OT3V324JP-W40

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Revision



Performance		: 200/400 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ie	: 137/68.3 A : 6.3 : 73.8 ft.lb : 200 % : 220 % : 3560 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 3.02 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Summary	,	Performed	Checked	Date
Performed by						

