DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14270426 Efficiency Three-Phase Catalog #: 07518OT3H365JP-W40 Frame : 364/5JP Locked rotor time : 25s (cold) 14s (hot) Output : 75 HP (55 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 575 V : 1000 m.a.s.l. Altitude Rated current : 68.4 A Protection degree : IP23 L. R. Amperes : 465 A Cooling method : IC01 - ODP LRC : 6.8x(Code G) Mounting : F-1 No load current : 24.4 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 : 221 ft.lb Approx. weight³ : 811 lb Locked rotor torque : 220 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 16.8 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 95.0 Efficiency (%) 94.4 94.5 95.0 Max. traction : 1566 lb Power Factor 0.48 0.85 0.73 0.82 Max. compression : 2377 lb Non drive end Drive end

Lubricant amount : 27 g 13 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



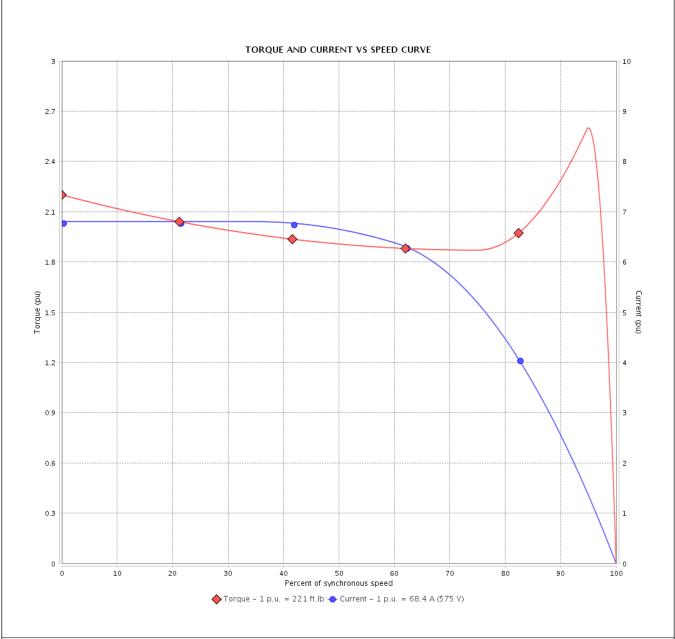
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270426

Catalog #: 07518OT3H365JP-W40



Performance : 575 V 60 Hz 4P Rated current : 68.4 A Moment of inertia (J) : 16.8 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 221 ft.lb : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



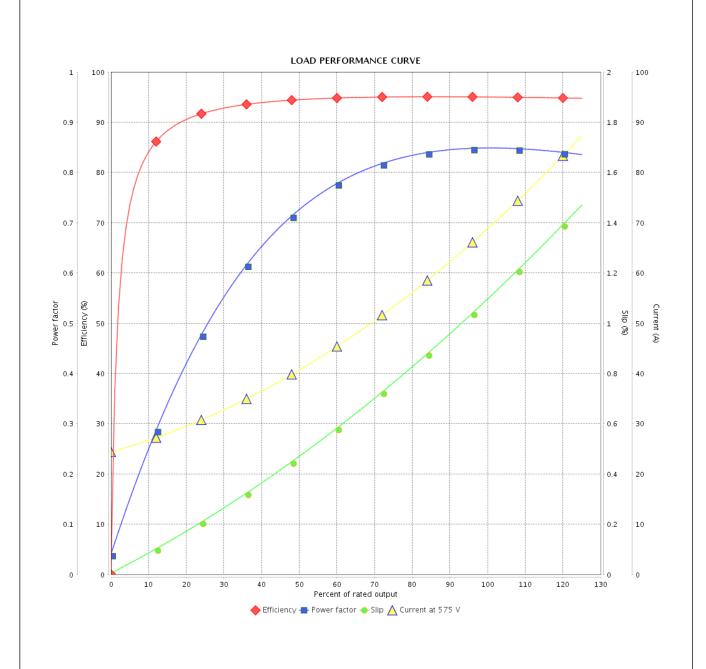
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270426

Catalog #: 07518OT3H365JP-W40



Performance		: 575 V 60 Hz 4P						
Rated current		8.4 A	Moment o	Moment of inertia (J)				
LRC	: 6	.8	Duty cycle	Duty cycle				
Rated torque	: 2	21 ft.lb	Insulation	Insulation class				
Locked rotor torqu	e : 2	20 %	Service fa	Service factor				
Breakdown torque		60 %	Temperati	Temperature rise				
Rated speed	: 1	780 rpm	Design		: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



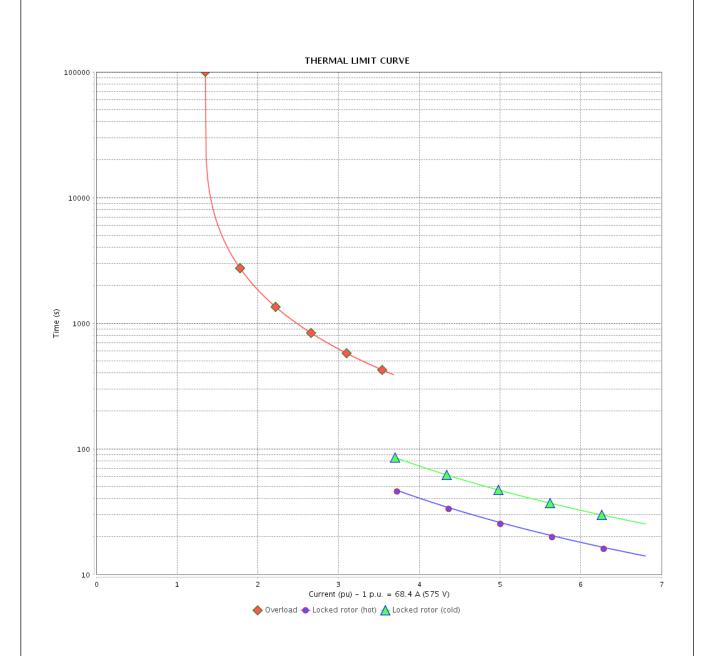
Customer	:					
Product line	: \	N40 JP Pump NEMA Prem	ium I	Product code :	14270426	
	E1	fficiency Three-Phase	(Catalog # :	07518OT3H3	65JP-W40
Performance		75 V 60 Hz 4P				
Rated current LRC	: 68 : 6.	3.4 A 8	Moment of Duty cycle	f inertia (J)	: 16.8 sq.ft.lb : Cont.(S1)	
Rated torque	: 22	21 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		20 % 60 %	Service far Temperatu		: 1.25 : 80 K	
Rated speed		780 rpm	Design		: B	
Heating constant						
Cooling constant		Changes O	1	Derf 1	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



Customer :

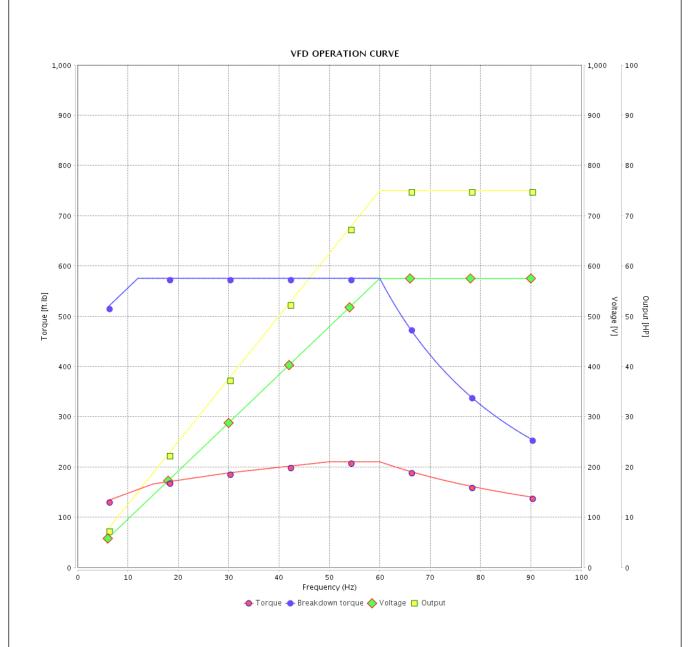
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270426

Catalog #: 07518OT3H365JP-W40

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Performance	: 575 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 68.4 A : 6.8 : 221 ft.lb : 220 % : 260 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 16.8 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Performed by				
Checked by			Page	Revision

13/04/2022

Date

