## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump High Efficiency Product code: 14829912 Three-Phase 07536OP3HFP364JPV-Catalog #: Frame : 364/5JP Locked rotor time : 46s (cold) 26s (hot) Output : 75 HP (55 kW) Temperature rise : 80 K : Cont.(S1) Poles : 2 Duty cycle Ambient temperature : -20°C to +40°C Frequency : 60 Hz Rated voltage : 575 V Altitude : 1000 m.a.s.l. Protection degree Rated current : 68.2 A : IP23 : IC01 - ODP L. R. Amperes : 396 A Cooling method **LRC** : 5.8x(Code F) Mounting : W-6 No load current : 20.2 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed Starting method : Direct On Line : 3550 rpm Slip : 1.39 % Approx. weight<sup>3</sup> : 674 lb Rated torque : 111 ft.lb : 160 % Locked rotor torque Breakdown torque : 210 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 5.60 sq.ft.lb Design : B Output 25% 50% 75% 100% Foundation loads Efficiency (%) 90.3 91.0 92.4 93.0 Max. traction : 461 lb Power Factor 0.55 0.80 0.85 0.87 : 1135 lb Max. compression Drive end Non drive end Bearing type 6314 C3 6212 Z C3 Without Bearing Seal Without Bearing Seal Sealing Lubrication interval

7209 h 27 g

12143 h

13 g

Mobil Polyrex EM Lubricant type

Notes

Lubricant amount

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 :

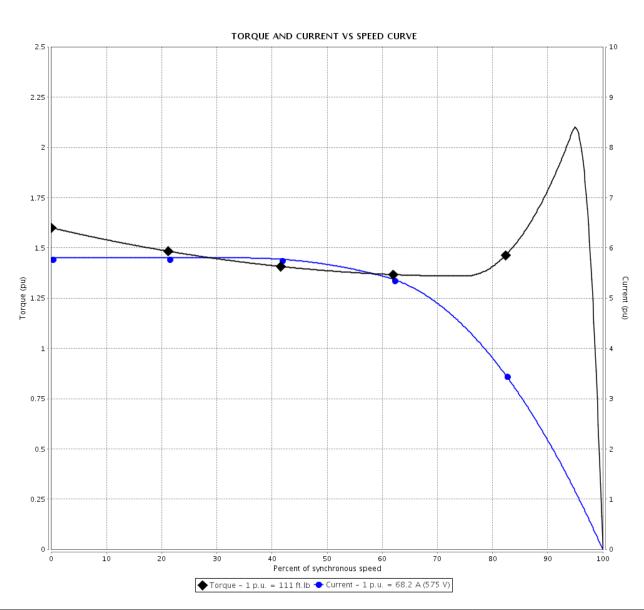
Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14829912

Catalog #: 07536OP3HFP364JPV-

W4



: 575 V 60 Hz 2P Performance Rated current : 68.2 A Moment of inertia (J) : 5.60 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 111 ft.lb Service factor Locked rotor torque : 160 % : 1.15 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 3550 rpm Design : B Locked rotor time : 46s (cold) 26s (hot)

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer

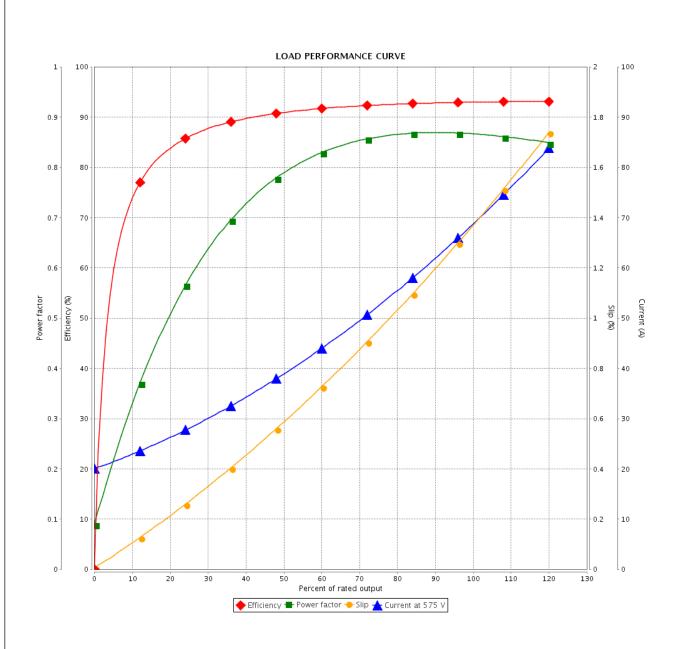
Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14829912

Catalog #: 07536OP3HFP364JPV-

W4



Performance	: 5	: 575 V 60 Hz 2P						
Rated current	: 68	: 68.2 A Moment of		f inertia (J)	: 5.60 sq.ft.lb			
LRC	: 5.	.8	Duty cycle		: Cont.(S1)			
Rated torque	: 1	11 ft.lb	Insulation class		: F			
Locked rotor torque	e : 10	60 %	Service factor		: 1.15			
Breakdown torque	: 2	: 210 % : 3550 rpm		ıre rise	: 80 K			
Rated speed	: 3				: B			
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# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



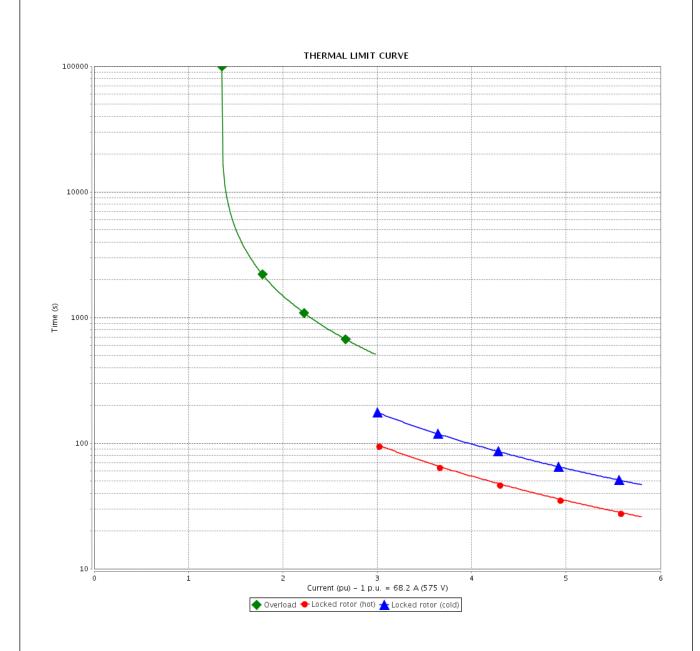
Customer	:					
Product line	: \	N40 JP Pump High Efficien	icy I	Product code :	14829912	
	TI	nree-Phase	(	Catalog # :	07536OP3HF	P364JPV-
					W4	
Performance		75 V 60 Hz 2P	Marra	finantie (1)	. 5.00 51 !!	
Rated current LRC	: 68 : 5.	3.2 A 8	Moment of Duty cycle	f inertia (J)	: 5.60 sq.ft.lb : Cont.(S1)	
Rated torque	: 11	11 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		60 % 10 %	Service far Temperatu		: 1.15 : 80 K	
Rated speed		550 rpm	Design		: B	
Heating constant						
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



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Date

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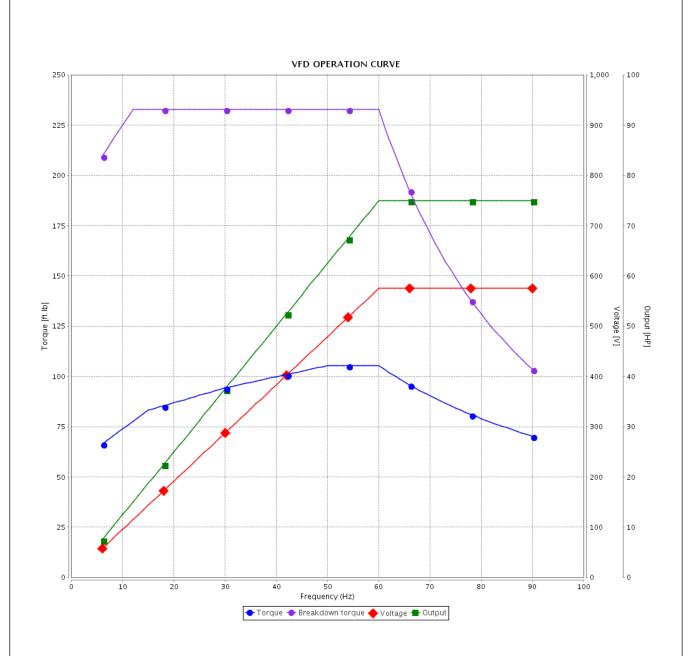
Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14829912

Catalog #: 07536OP3HFP364JPV-

W4



Performance : 575 V 60 Hz 2P Rated current : 68.2 A Moment of inertia (J) : 5.60 sq.ft.lb **LRC** Duty cycle : 5.8 : Cont.(S1) Insulation class Rated torque : 111 ft.lb : F Locked rotor torque : 160 % Service factor : 1.15 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 3550 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

