## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump High Efficiency Product code: 14829929 Three-Phase Catalog #: 07518OP3EFP365JPV-W4 Frame : 364/5JP Locked rotor time : 34s (cold) 19s (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 : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 171/85.3 A Protection degree : IP23 L. R. Amperes : 1075/537 A Cooling method : IC01 - ODP LRC : 6.3x(Code G) Mounting : W-6 No load current : 50.0/25.0 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1775 rpm Starting method : Direct On Line Slip : 1.39 % Approx. weight<sup>3</sup> : 756 lb Rated torque : 222 ft.lb Locked rotor torque : 180 % Breakdown torque : 229 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 15.2 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 93.5 93.6 94.1 94.1 Max. traction : 1635 lb Power Factor 0.86 0.52 0.75 0.83 Max. compression : 2391 lb

Drive end<br/>Bearing typeNon drive end<br/>6314 C3Non drive end<br/>6212 Z C3Sealing: Without Bearing Seal<br/>Lubrication interval: 19579 hWithout Bearing Seal

Lubricant amount : 27 g 13 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 189A SF 1.00 SFA 189A

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/04/2020			1/6	

## TORQUE AND CURRENT VS SPEED CURVE

### Three Phase Induction Motor - Squirrel Cage



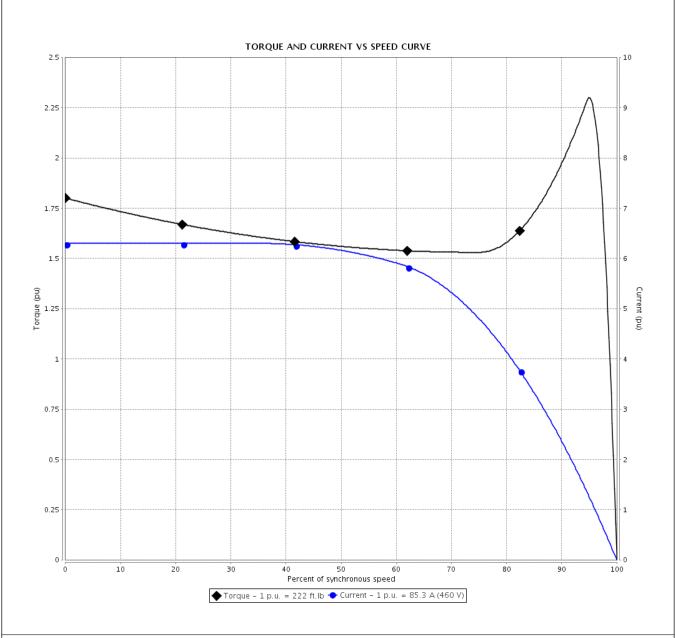
Customer :

Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14829929

Catalog #: 07518OP3EFP365JPV-W4



: 230/460 V 60 Hz 4P Performance Rated current : 171/85.3 A Moment of inertia (J) : 15.2 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 222 ft.lb : F Service factor Locked rotor torque : 180 % : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

Locked rotor time : 34s (cold) 19s (hot)

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/04/2020			2/6	

## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



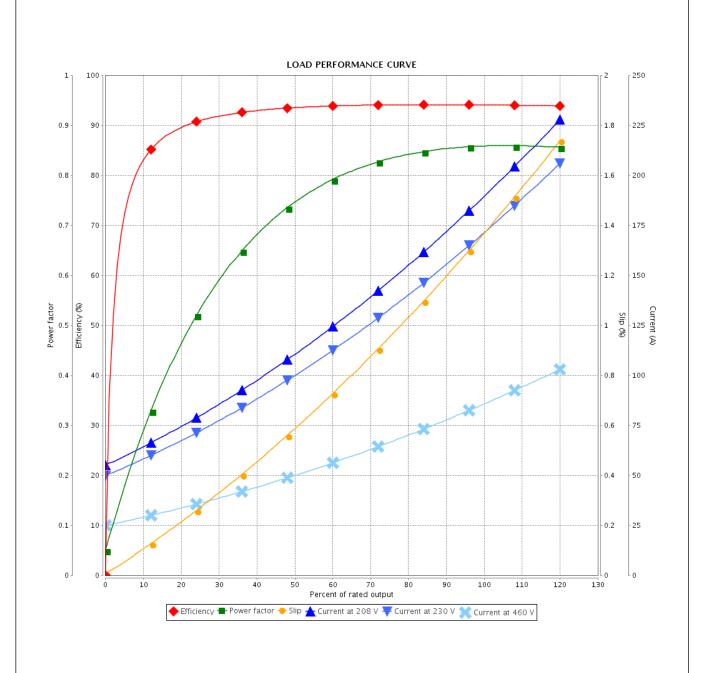
Customer

Product line : W40 JP Pump High Efficiency Product code :

Three-Phase

Catalog #: 07518OP3EFP365JPV-W4

14829929



Performance	: 2	: 230/460 V 60 Hz 4P						
Rated current	: 1	171/85.3 A Moment of inertia (J)		f inertia (J)	: 15.2 sq.ft.lb			
LRC	: 6	: 6.3       Duty cycle         : 222 ft.lb       Insulation         : 180 %       Service fa         : 229 %       Temperate         : 1775 rpm       Design		<b>;</b>	: Cont.(S1)			
Rated torque	: 2			class	:F			
Locked rotor torque	e :1			factor : 1.15				
Breakdown torque	: 2			ıre rise	: 80 K			
Rated speed	: 1			Design				
Rev.		Changes Summary	<u> </u>	Performed	Checked	Date		
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Data	10/04/2020				3/6			

# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



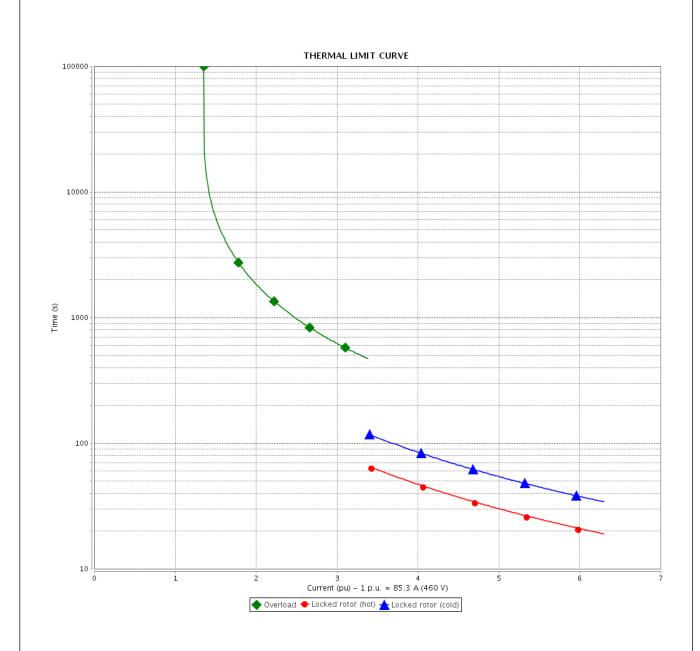
Customer	:					
Product line		: W40 JP Pump High Efficiency Three-Phase		Product code :	14829929	
			(	Catalog # :	07518OP3EF	P365JPV-W4
Performance		30/460 V 60 Hz 4P	N4	<b>(</b>	45.0 0.0	
Rated current LRC	: 17 : 6.	71/85.3 A .3	Moment of Duty cycle	f inertia (J)	: 15.2 sq.ft.lb : Cont.(S1)	
Rated torque	: 22	22 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		80 % 29 %	Service fac Temperatu		: 1.15 : 80 K	
Rated speed		775 rpm	Design	110 1100	: B	
Heating constan	t					
Cooling constant						
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/04/2020			5/6	

## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Revision

Page 6 / 6

Customer :

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Date

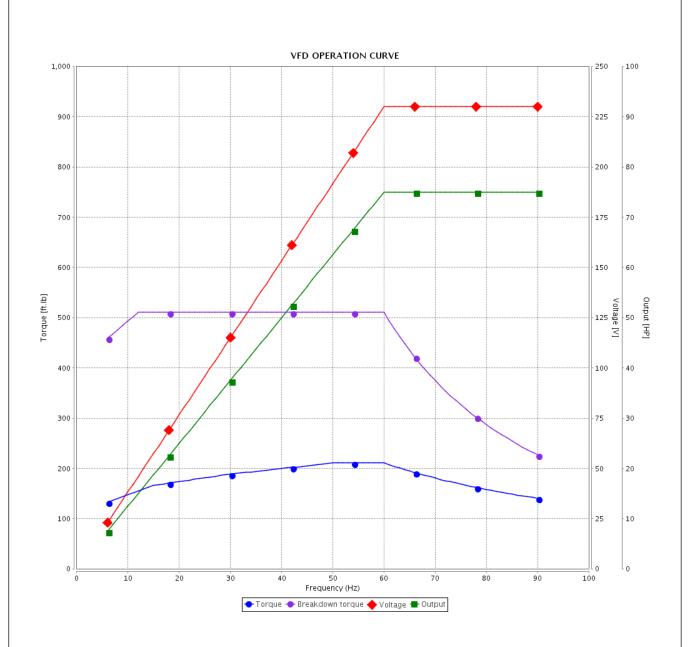
10/04/2020

Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14829929

Catalog #: 07518OP3EFP365JPV-W4



Performance : 230/460 V 60 Hz 4P : 171/85.3 A Rated current Moment of inertia (J) : 15.2 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 : 222 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

