## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump High Efficiency Product code : 14829568

Three-Phase

Catalog #: 06018OP3EFP364JPV-W4

Frame : 364/5JP Locked rotor time : 39s (cold) 22s (hot)

Output : 60 HP (45 kW) Temperature rise : 80 K
Poles : 4 Duty cycle : Cont.(S1)
Frequency : 60 Hz Ambient temperature : -20°C to +40°C
Rated voltage : 230/460 V Altitude : 1000 m.a.s.l.

 Rated current
 : 142/71.0 A
 Protection degree
 : IP23

 L. R. Amperes
 : 866/433 A
 Cooling method
 : IC01 - ODP

 LRC
 : 6.1x(Code G)
 Mounting
 : W-6

No load current : 46.0/23.0 A Rotation¹ : Both (CW and CCW)
Rated speed : 1777 rpm Starting method : Direct On Line

Slip : 1.28 % Approx. weight<sup>3</sup> : 675 lb

Rated torque : 177 ft.lb
Locked rotor torque : 180 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.15

Moment of inertia (J) : 12.8 sq.ft.lb Design : B

25% 50% 75% 100% Output Foundation loads Efficiency (%) 92.9 93.0 93.6 93.6 Max. traction : 1273 lb Power Factor 0.85 0.49 0.73 0.82 Max. compression : 1948 lb

Drive endNon drive endBearing type: 6314 C36212 Z C3Sealing: Without Bearing SealWithout Bearing SealLubrication interval: 19579 h20000 h

Lubricant amount : 27 g 13 g

Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 157A SF 1.00 SFA 157A

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



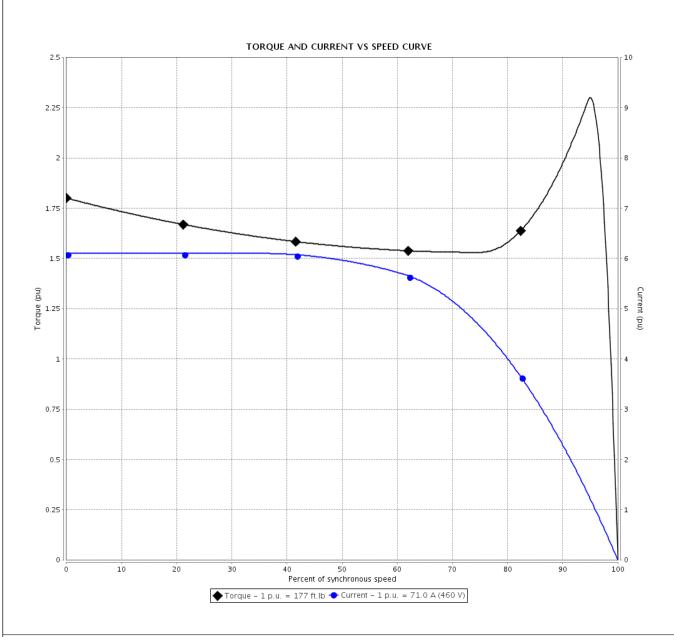
Customer :

Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14829568

Catalog #: 06018OP3EFP364JPV-W4



Performance : 230/460 V 60 Hz 4P Rated current : 142/71.0 A Moment of inertia (J) : 12.8 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 177 ft.lb : F Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1777 rpm Design : B

Locked rotor time : 39s (cold) 22s (hot)

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

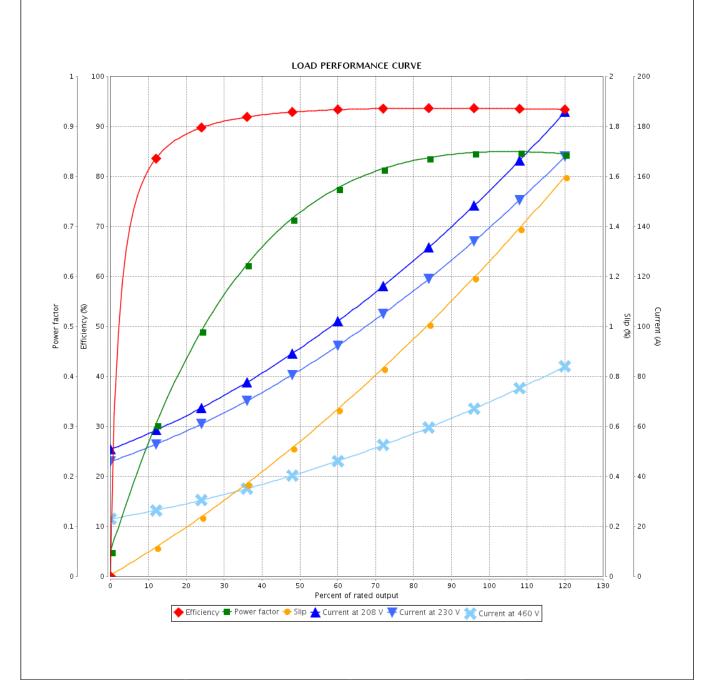


Customer :

Product line : W40 JP Pump High Efficiency Product code : 14829568

Three-Phase

Catalog #: 06018OP3EFP364JPV-W4



Performance : 230/460 V 60 Hz 4P							
Rated current :		142/71.0 A	Moment of inertia (J)		: 12.8 sq.ft.lb		
LRC :		6.1	Duty cycle	Duty cycle			
Rated torque Locked rotor torque		177 ft.lb Insulation cla 180 % Service factor		class	: F		
				ctor : 1.15			
Breakdown torque	e ::	229 %	Temperati	Temperature rise			
Rated speed	:	: 1777 rpm De:		Design			
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# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



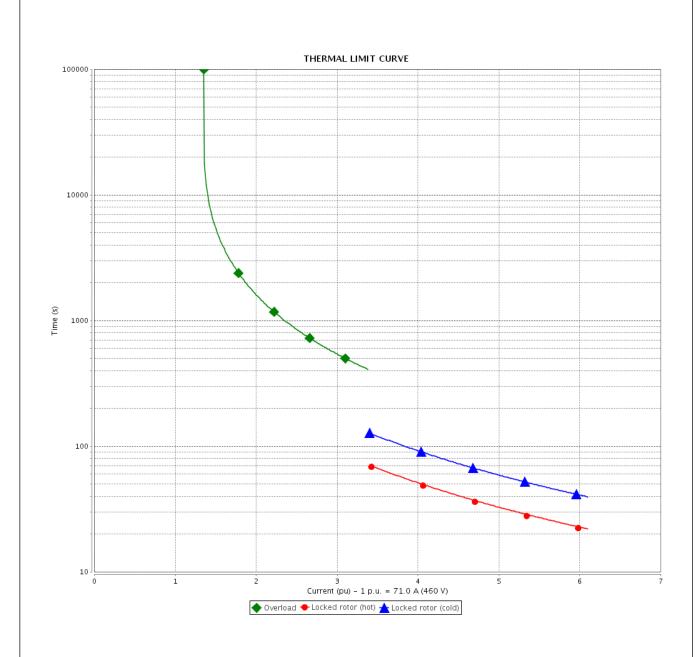
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Product line	: \ TI	N40 JP Pump High Efficier nree-Phase		Product code :	14829568 06018OP3EF	P364JPV-W4
Performance	: 23	30/460 V 60 Hz 4P				
Rated current LRC	: 1 <sup>4</sup> : 6.	12/71.0 A 1	Moment of Duty cycle	f inertia (J)	: 12.8 sq.ft.lb : Cont.(S1)	
Rated torque	: 17	77 ft.lb	Insulation	class	: F	
Locked rotor torqu Breakdown torque		30 % 29 %	Service fac Temperatu		: 1.15 : 80 K	
Rated speed		777 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Performed by						
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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



Revision

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Customer :

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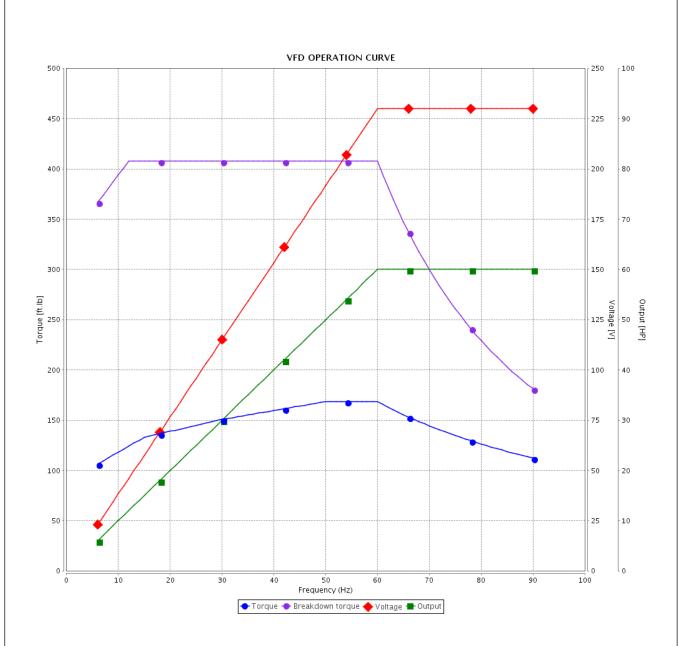
Date

Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14829568

Catalog #: 06018OP3EFP364JPV-W4



Performance : 230/460 V 60 Hz 4P : 142/71.0 A Rated current Moment of inertia (J) : 12.8 sq.ft.lb **LRC** Duty cycle : 6.1 : Cont.(S1) Insulation class : 177 ft.lb : F Rated torque Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1777 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

