### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump High Efficiency Product code: 14829214 Three-Phase Catalog #: 03018OP3VFP286JPV-W4 Frame : 284/6JP Locked rotor time : 39s (cold) 22s (hot) Output : 30 HP (22 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 : 81.9/40.9 A Protection degree : IP23 L. R. Amperes : 516/258 A Cooling method : IC01 - ODP LRC : 6.3x(Code F) Mounting : W-6 No load current : 25.3/12.7 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1765 rpm Starting method : Direct On Line Slip : 1.94 % Approx. weight<sup>3</sup> : 398 lb Rated torque : 89.3 ft.lb Locked rotor torque : 250 % Breakdown torque : 250 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 3.70 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads Efficiency (%) 91.5 91.7 92.4 92.4 Max. traction Power Factor 0.80 0.84 0.49 0.71 Max. compression Non drive end Drive end Bearing type 6311 Z C3 6211 Z C3 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 20000 h 20000 h

Mobil Polyrex EM

18 g

Notes

Lubricant amount

Lubricant type

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.

11 g

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### TORQUE AND CURRENT VS SPEED CURVE

### Three Phase Induction Motor - Squirrel Cage



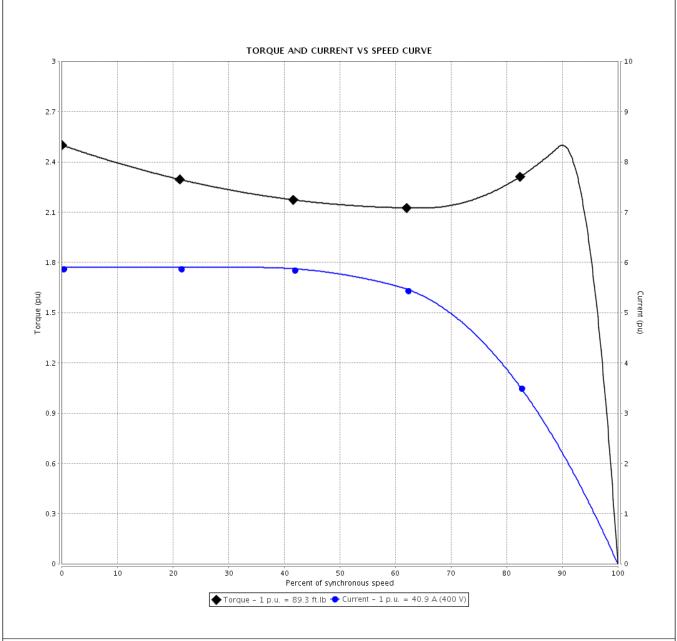
Customer :

Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14829214

Catalog #: 03018OP3VFP286JPV-W4



: 200/400 V 60 Hz 4P Performance Rated current : 81.9/40.9 A Moment of inertia (J) : 3.70 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 89.3 ft.lb Service factor Locked rotor torque : 250 % : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

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

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### LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

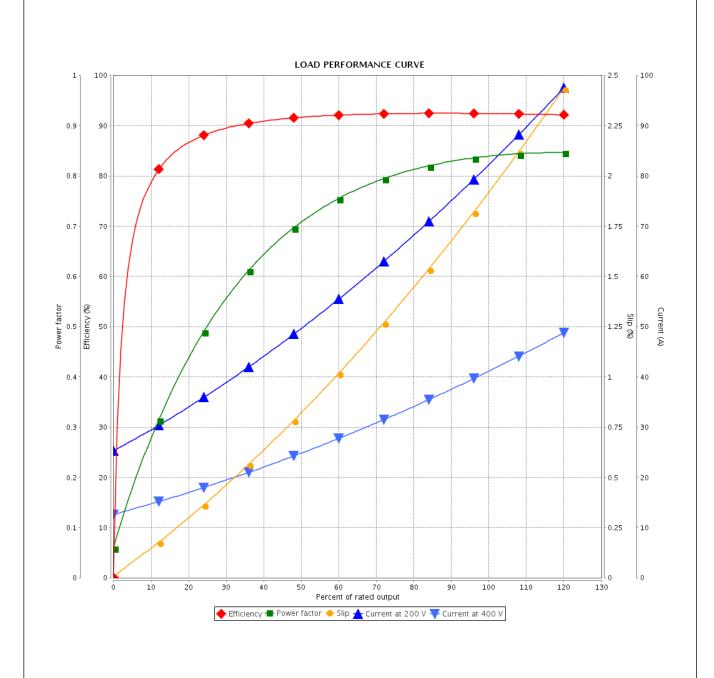


Customer

Product line : W40 JP Pump High Efficiency Product code : 14829214

Three-Phase

Catalog #: 03018OP3VFP286JPV-W4



Performance : 200/400 V		200/400 V 60 Hz 4P				
Rated current		81.9/40.9 A	1.9/40.9 A Moment of inertia (J)		: 3.70 sq.ft.lb	
LRC		6.3	Duty cycle	Duty cycle		
Rated torque		89.3 ft.lb	Insulation class		: F	
Locked rotor torque		250 %	Service fa	Service factor		
Breakdown torque	:	250 %	Temperati	Temperature rise		
Rated speed	:	765 rpm Design		: B		
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



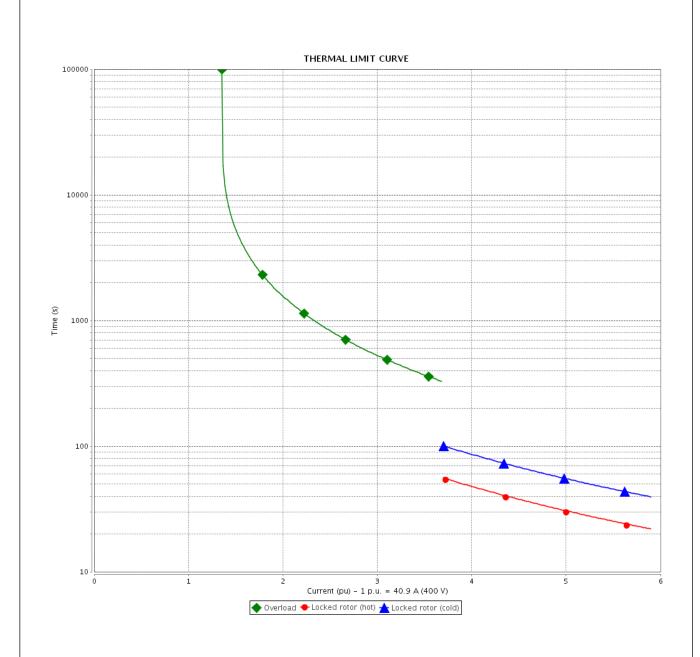
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Product line	: \	<i>N</i> 40 JP Pump High Efficien nree-Phase	icy I	Product code :	14829214	
	''	Tillee-i Hase		Catalog # :	03018OP3VF	P286JPV-W4
Performance		00/400 V 60 Hz 4P				
Rated current LRC	: 8° : 6.	1.9/40.9 A 3	Moment of Duty cycle	f inertia (J)	: 3.70 sq.ft.lb : Cont.(S1)	
Rated torque	: 89	9.3 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		50 % 50 %	Service far Temperatu		: 1.15 : 80 K	
Rated speed		765 rpm	Design		: B	
Heating constant						
Cooling constant			Т			
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Checked by					Page	Revision
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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 :

Date

10/04/2020

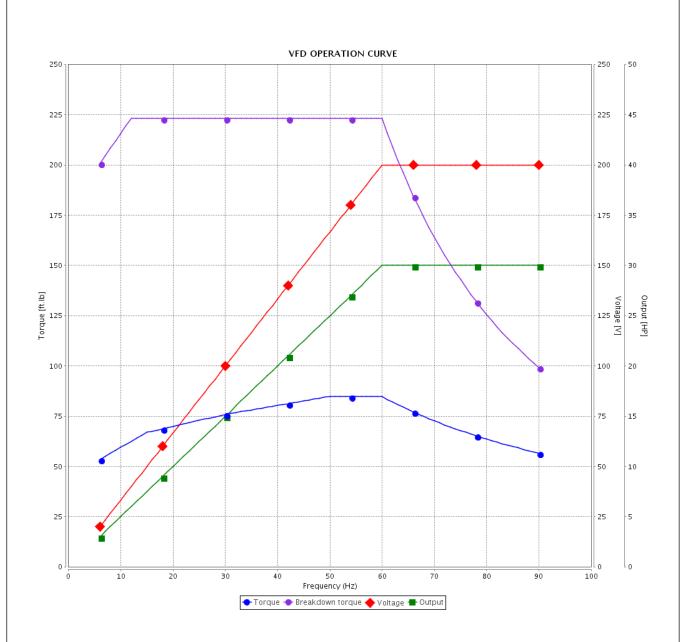
Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14829214

Catalog #: 03018OP3VFP286JPV-W4

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Performance : 200/400 V 60 Hz 4P Rated current : 81.9/40.9 A Moment of inertia (J) : 3.70 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 : 89.3 ft.lb Insulation class : F Rated torque Locked rotor torque : 250 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

