DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump High Efficiency Product code: 14829213 Three-Phase Catalog #: 03018OP3EFP286JPV-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 : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 71.2/35.6 A Protection degree : IP23 L. R. Amperes : 449/224 A Cooling method : IC01 - ODP LRC : 6.3x(Code F) Mounting : W-6 No load current : 22.0/11.0 A Rotation¹ : Both (CW and CCW) Rated speed : 1765 rpm Starting method : Direct On Line Slip : 1.94 % Approx. weight³ : 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

Drive end
Bearing typeDrive end
6311 Z C3Non drive end
6211 Z C3Sealing: Without Bearing Seal
Lubrication interval
Lubricant amount: 20000 hWithout Bearing Seal
20000 h

100%

92.4

0.84

Foundation loads

Max. compression

Max. traction

Lubricant type : Mobil Polyrex EM

75%

92.4

0.80

Notes

Design

Output

Efficiency (%)

Power Factor

USABLE @208V 78.7A SF 1.00 SFA 78.7A

25%

91.5

0.49

50%

91.7

0.71

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



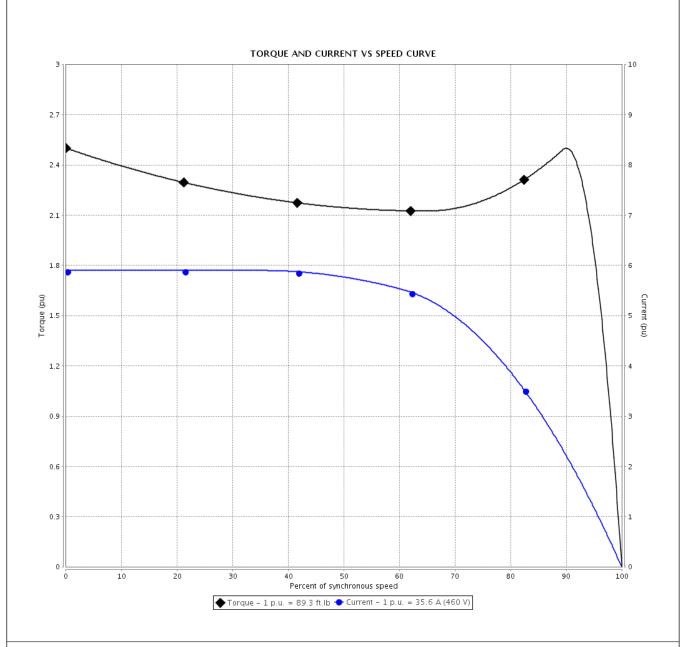
Customer :

Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14829213

Catalog #: 03018OP3EFP286JPV-W4



Performance : 230/460 V 60 Hz 4P Rated current : 71.2/35.6 A Moment of inertia (J) : 3.70 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 89.3 ft.lb : F Locked rotor torque : 250 % Service factor : 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



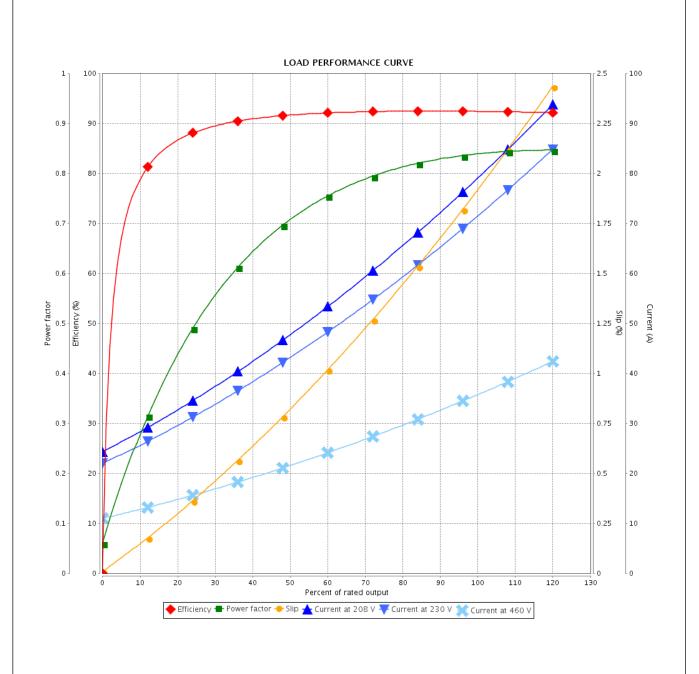
Customer

Product line : W40 JP Pump High Efficiency Product code :

Three-Phase

Catalog #: 03018OP3EFP286JPV-W4

14829213



Performance		: 230/460 V 60 Hz 4P							
Rated current		1.2/35.6 A Moment of inertia (J)		f inertia (J)	: 3.70 sq.ft.lb				
LRC :		3	Duty cycle		: Cont.(S1)				
Rated torque		3 ft.lb Insulation class		: F					
Locked rotor tord	que : 25	50 %	Service factor		: 1.15				
Breakdown torqu	ue : 25	50 % Temperature rise		: 80 K					
Rated speed	: 17	765 rpm	Design	Design					
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



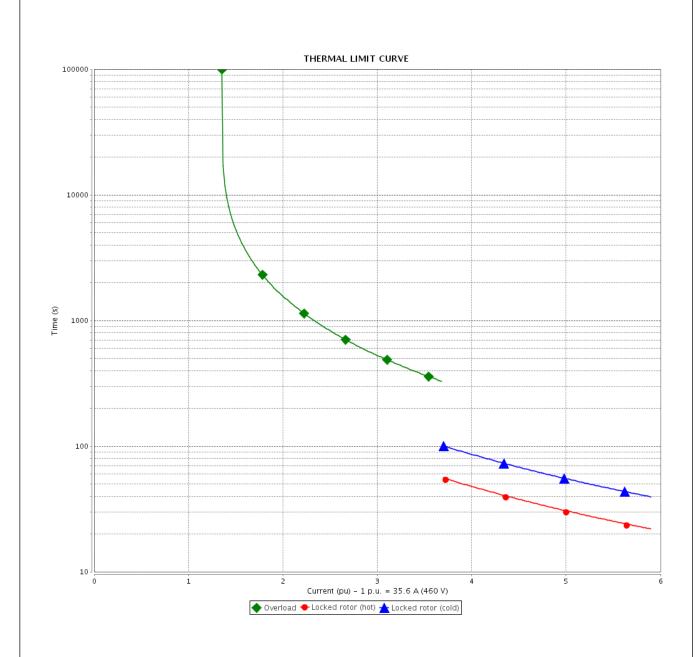
Customer	:					
Product line		: W40 JP Pump High Efficiency Three-Phase		Product code :	14829213	
				Catalog # :	03018OP3EF	P286JPV-W4
Performance		30/460 V 60 Hz 4P				
Rated current LRC	: 7′ : 6.	1.2/35.6 A 3	Moment of Duty cycle	f inertia (J)	: 3.70 sq.ft.lb : Cont.(S1)	
Rated torque	: 89	9.3 ft.lb	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		Oh avana O	T	Devit 1	Ol- I	D :
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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

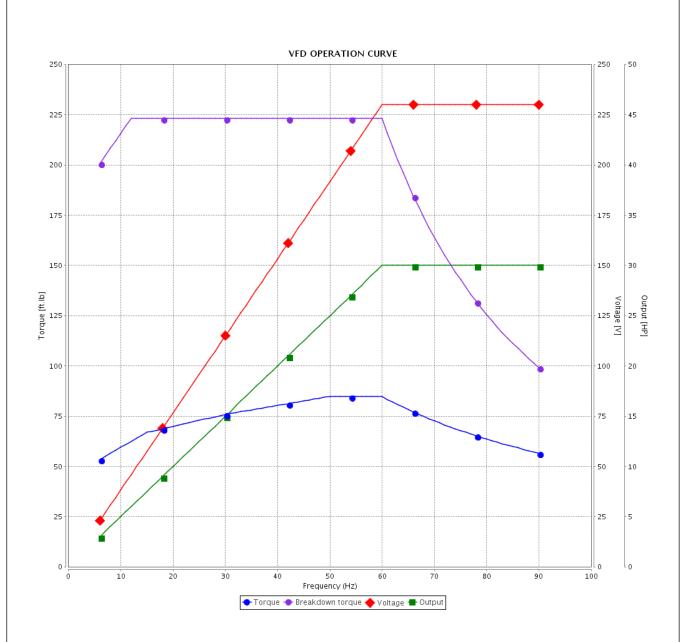
Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14829213

Catalog #: 03018OP3EFP286JPV-W4

6/6



Performance : 230/460 V 60 Hz 4P : 71.2/35.6 A Rated current 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 : 250 % Locked rotor torque 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

