DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump High Efficiency Product code: 14829289 Three-Phase Catalog #: 04036OP3EFP286JPV-W4 Frame : 284/6JP Locked rotor time : 18s (cold) 10s (hot) Output : 40 HP (30 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 : 94.4/47.2 A Protection degree : IP23 L. R. Amperes : 576/288 A Cooling method : IC01 - ODP LRC : 6.1x(Code G) Mounting : W-6 No load current : 28.0/14.0 A Rotation¹ : Both (CW and CCW) Rated speed : 3535 rpm Starting method : Direct On Line Slip : 1.81 % Approx. weight³ : 350 lb Rated torque : 59.4 ft.lb Locked rotor torque : 170 % Breakdown torque : 250 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.91 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 91.7 Efficiency (%) 90.8 91.0 91.7 Max. traction

Max. compression

0.87

Lubricant amount : 18 g 11 g Lubricant type : Mobil Polyrex EM

0.86

Notes

Power Factor

USABLE @208V 104A SF 1.00 SFA 104A

0.54

0.78

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



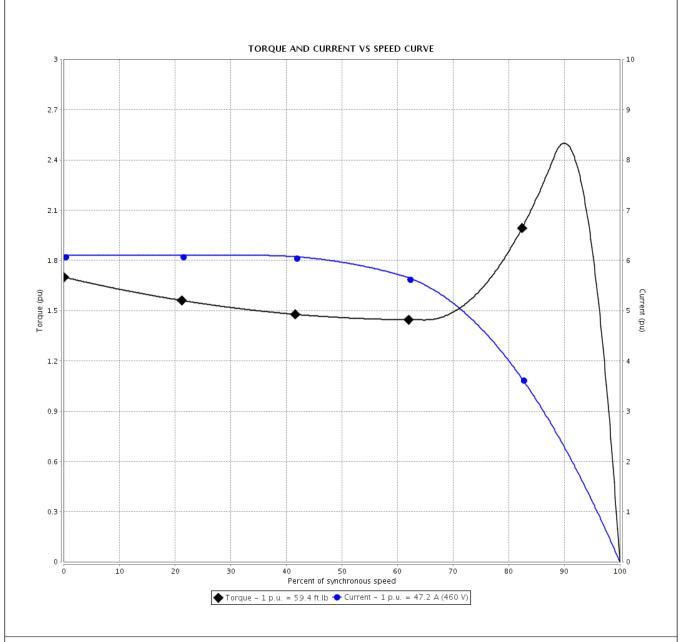
Customer :

Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14829289

Catalog #: 04036OP3EFP286JPV-W4



Performance : 230/460 V 60 Hz 2P Rated current : 94.4/47.2 A Moment of inertia (J) : 1.91 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 59.4 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 170 % : 1.15

Breakdown torque : 250 % Temperature rise : 80 K
Rated speed : 3535 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



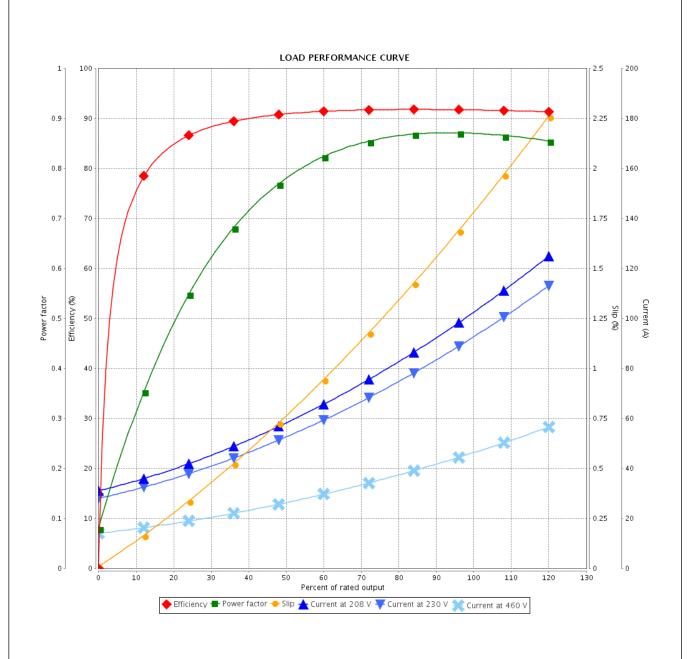
Customer

Product line : W40 JP Pump High Efficiency Product code :

Three-Phase

Catalog #: 04036OP3EFP286JPV-W4

14829289



Performance		: 230/460 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torque	: 6 : 5 e : 1	Moment of inertia (J) Duty cycle S9.4 ft.lb Insulation class Service factor		class ctor	: 1.91 sq.ft.lb : Cont.(S1) : F : 1.15			
Breakdown torque Rated speed		: 250 % Temper : 3535 rpm Design		ire rise	: 80 K : B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



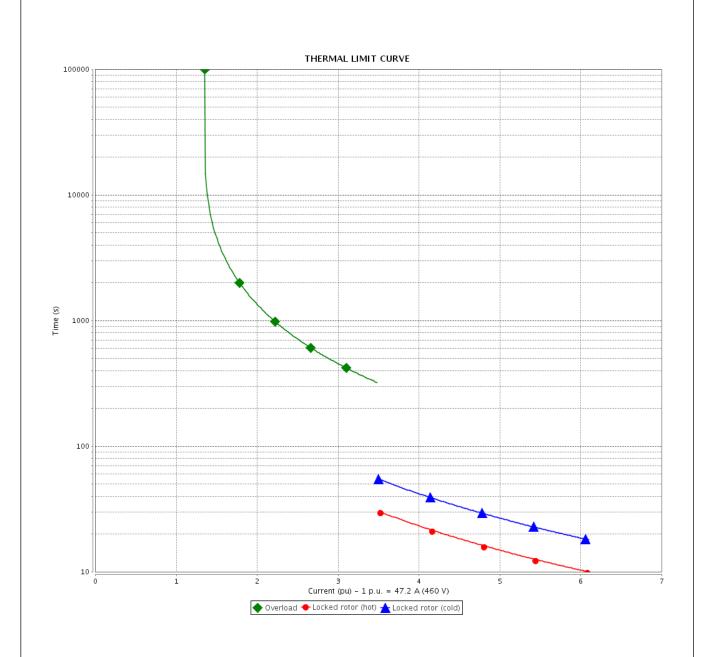
Customer	:					
Product line	: \ Tr	: W40 JP Pump High Efficiend Three-Phase		Product code :	14829289	
		ilee-i ilase	(Catalog # :	04036OP3EF	P286JPV-W4
Performance		30/460 V 60 Hz 2P				
Rated current LRC	: 9 ² : 6.	1.4/47.2 A 1	Moment of Duty cycle	f inertia (J)	: 1.91 sq.ft.lb : Cont.(S1)	
Rated torque	: 59	9.4 ft.lb	Insulation	class	: F	
Locked rotor torqu		70 %	Service fac		: 1.15	
Breakdown torque Rated speed		50 % 535 rpm	Temperatu Design	ire rise	: 80 K : 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



Revision

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Customer :

Checked by

Date

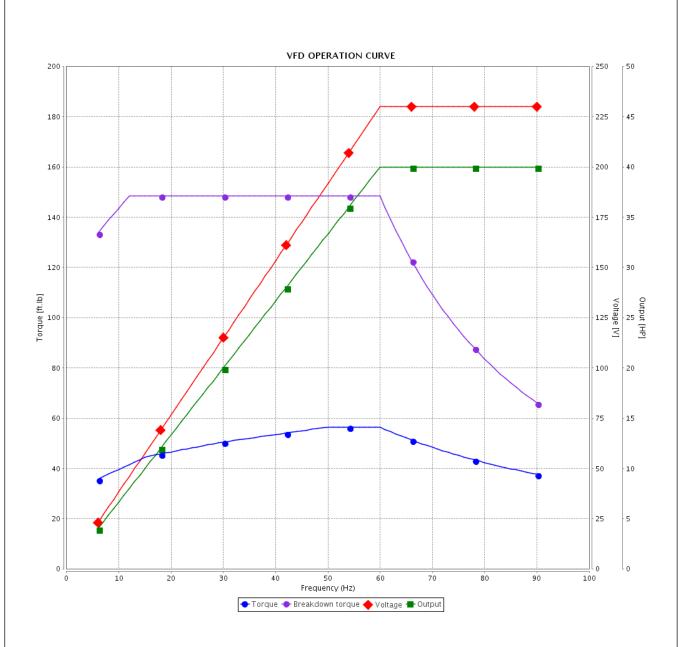
10/04/2020

Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14829289

Catalog #: 04036OP3EFP286JPV-W4



Performance : 230/460 V 60 Hz 2P Rated current : 94.4/47.2 A Moment of inertia (J) : 1.91 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 Insulation class : 59.4 ft.lb : F Rated torque Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3535 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

