DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14486862 Efficiency Three-Phase Catalog #: 03018OT3V286JP-W40 Frame : 284/6JP Locked rotor time : 32s (cold) 18s (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 : 80.3/40.1 A Protection degree : IP23 L. R. Amperes : 530/265 A Cooling method : IC01 - ODP LRC : 6.6x(Code G) Mounting : F-1 No load current : 33.3/16.7 A Rotation¹ : Both (CW and CCW) Rated speed : 1770 rpm Noise level² : 64.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 89.0 ft.lb Approx. weight³ : 415 lb Locked rotor torque : 280 % Breakdown torque : 280 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 4.52 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 93.4 93.6 94.1 94.1 Max. traction Power Factor 0.44 0.80 0.84 0.70 Max. compression Non drive end Drive end Bearing type 6311 Z C3 6211 Z C3 Sealing Without Bearing Seal Without Bearing Seal 20000 h

Lubrication interval : 20000 h 20000 Lubricant amount : 18 g 11 g

Lubricant type : Mobil Polyrex EM

Notes

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



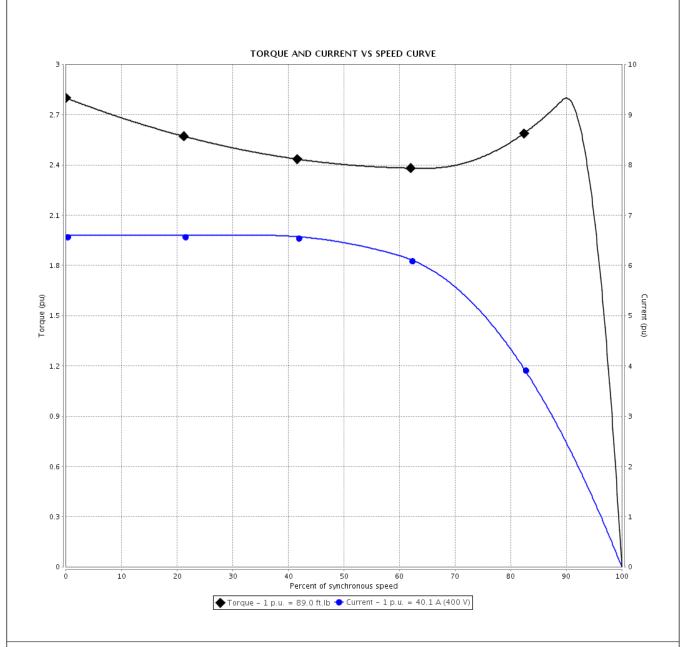
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486862

Catalog #: 03018OT3V286JP-W40



: 200/400 V 60 Hz 4P Performance Rated current : 80.3/40.1 A Moment of inertia (J) : 4.52 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 89.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 280 % Service factor : 1.25

Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



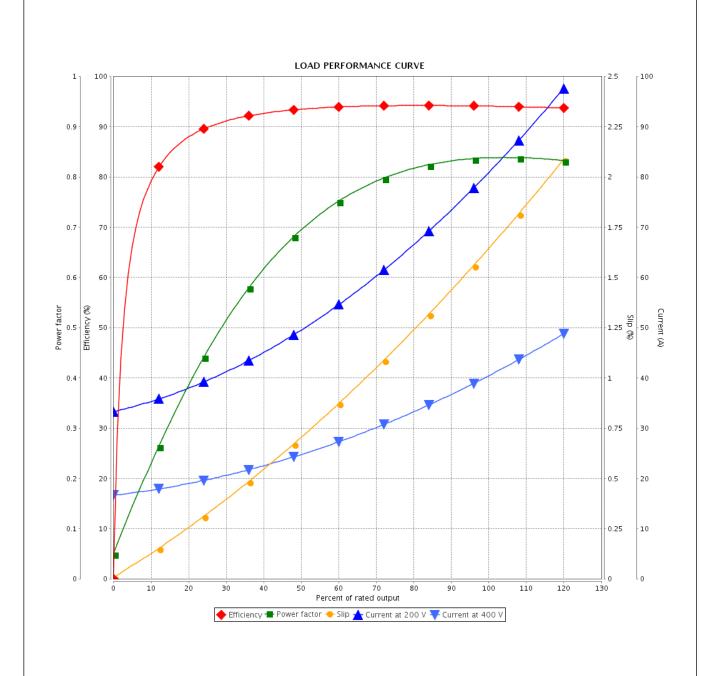
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486862

Catalog #: 03018OT3V286JP-W40



Performance		00/400 V 60 Hz 4P				
Rated current).3/40.1 A	Moment of inertia (J)		: 4.52 sq.ft.lb	
LRC :		6	Duty cycle		: Cont.(S1)	
Rated torque	: 89	89.0 ft.lb Insulation		class	: F	
Locked rotor torque		280 % Service factor		ctor	r : 1.25	
Breakdown torque		280 % Temperature rise Design		ıre rise	: 80 K	
Rated speed	: 17			: B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



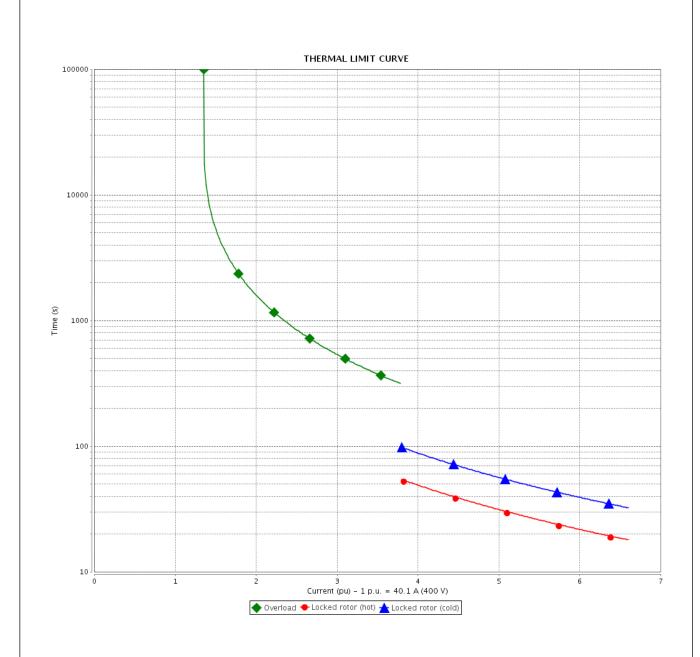
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Product line	: \ E1	W40 JP Pump NEMA Prem fficiency Three-Phase	ium f	Product code :	14486862	
			(Catalog # :	03018OT3V2	36JP-W40
Performance		00/400 V 60 Hz 4P				
Rated current LRC	: 80 : 6.	0.3/40.1 A	Moment of Duty cycle	finertia (J)	: 4.52 sq.ft.lb : Cont.(S1)	
Rated torque	: 89	9.0 ft.lb	Insulation	class	: F	
Locked rotor torqu		30 %	Service fac		: 1.25	
Breakdown torque Rated speed		30 % 770 rpm	Temperatu Design	re 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



Customer :

Date

11/04/2020

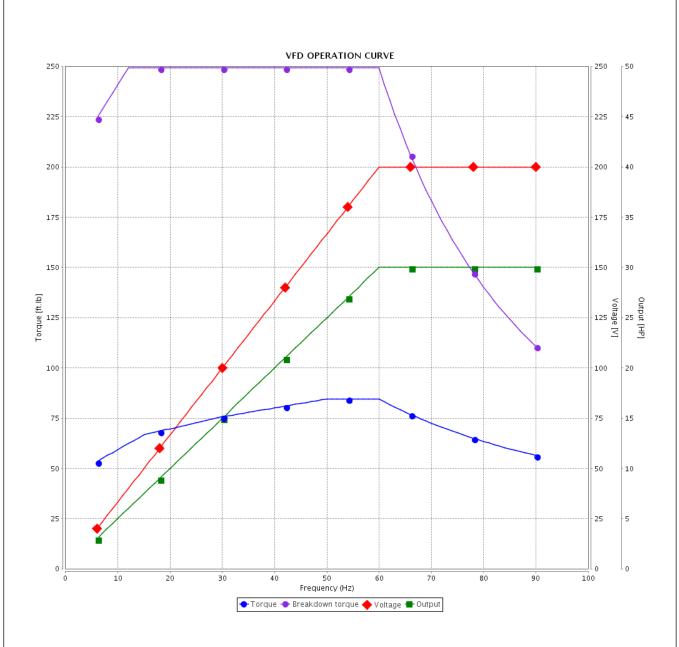
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486862

Catalog #: 03018OT3V286JP-W40

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Performance : 200/400 V 60 Hz 4P Rated current : 80.3/40.1 A Moment of inertia (J) : 4.52 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 : 89.0 ft.lb Insulation class : F Rated torque Locked rotor torque : 280 % Service factor : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page