DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14836782 Efficiency Three-Phase Catalog #: 04036OT3V286JPV-W40 Frame : 284/6JP Locked rotor time : 14s (cold) 8s (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 : 200/400 V : 1000 m.a.s.l. Altitude Rated current : 108/53.8 A Protection degree : IP23 L. R. Amperes : 700/350 A Cooling method : IC01 - ODP LRC : 6.5x(Code G) Mounting : W-6 No load current : 34.3/17.1 A Rotation¹ : Both (CW and CCW) Rated speed : 3540 rpm Noise level² : 73.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 59.3 ft.lb Approx. weight³ : 361 lb Locked rotor torque : 190 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 2.02 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 91.5 91.7 92.4 92.4 Max. traction Power Factor 0.87 0.51 0.76 0.84 Max. compression Non drive end Drive end Bearing type 6311 Z C3 6211 Z C3

Bearing type : 6311 Z C3 6211 Z C3
Sealing : Without Bearing Seal Without Bearing Seal
Lubrication interval : 11517 h 14226 h
Lubricant amount : 18 g 11 g

Lubricant amount : 18 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



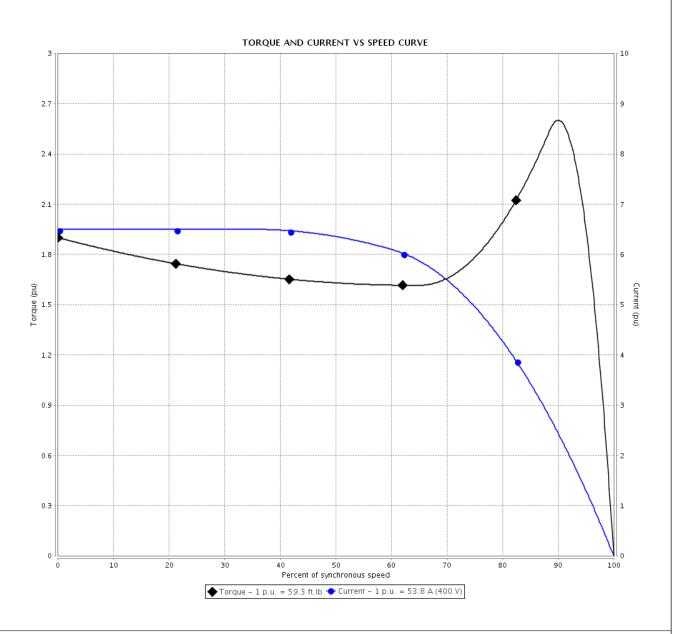
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836782

Catalog #: 04036OT3V286JPV-W40



: 200/400 V 60 Hz 2P Performance Rated current : 108/53.8 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 59.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3540 rpm Design : B

Locked rotor time : 14s (cold) 8s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



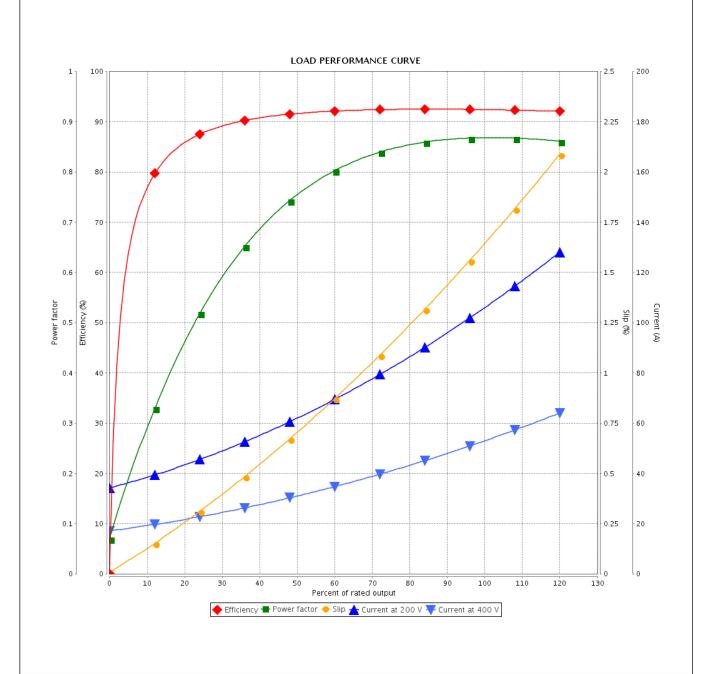
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836782

Catalog #: 04036OT3V286JPV-W40



Performance : 20		200/400 V 60 Hz 2P				
Rated current		08/53.8 A Moment of		f inertia (J)	: 2.02 sq.ft.lb	
LRC		3.5	Duty cycle	Duty cycle		
Rated torque		59.3 ft.lb	Insulation	Insulation class		
Locked rotor torg	jue : 1	190 %	Service fa	Service factor		
Breakdown torqu	ie : 2	260 %	Temperati	Temperature rise		
Rated speed		3540 rpm	Design		: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



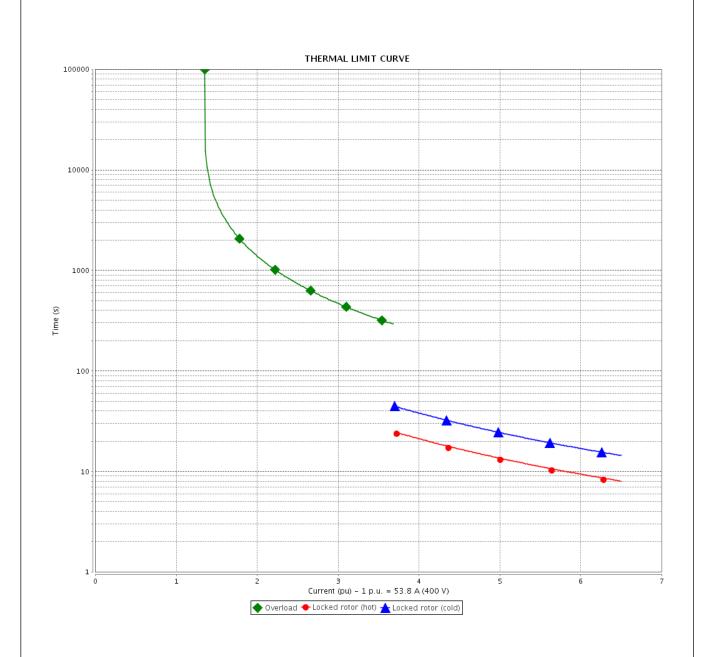
Customer	:	:					
Product line		: W40 JP Pump NEMA Premi		Product code :	14836782		
		Efficiency Three-Phase			14030762		
		·		Catalog # :	04036OT3V28	86JPV-W40	
Performance		200/400 V 60 Hz 2P					
Rated current LRC		108/53.8 A 6.5	Moment of Duty cycle	of inertia (J)	: 2.02 sq.ft.lb : Cont.(S1)		
Rated torque	: 5	59.3 ft.lb	Insulation class		: F		
Locked rotor tord		: 190 % Se		actor	: 1.25		
Breakdown torqu Rated speed		260 % 3540 rpm	Temperat Design	ure 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

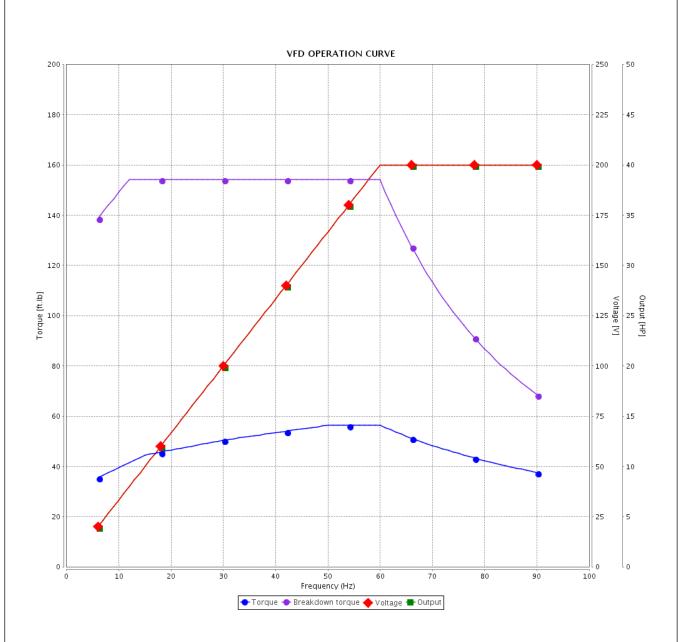
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836782

Catalog #: 04036OT3V286JPV-W40

6/6



Performance : 200/400 V 60 Hz 2P : 108/53.8 A Rated current Moment of inertia (J) : 2.02 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 Insulation class : 59.3 ft.lb : F Rated torque Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3540 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page