DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14486171 Efficiency Three-Phase Catalog #: 02018OT3H256JP-W40 Frame : 254/6JP Locked rotor time : 46s (cold) 26s (hot) Output : 20 HP (15 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 575 V : 1000 m.a.s.l. Altitude Rated current : 19.3 A Protection degree : IP23 L. R. Amperes : 123 A Cooling method : IC01 - ODP LRC : 6.4x(Code G) Mounting : F-1 No load current : 8.00 A Rotation¹ : Both (CW and CCW) Rated speed : 1770 rpm Noise level² : 62.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 59.3 ft.lb Approx. weight³ : 304 lb Locked rotor torque : 220 % Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 3.13 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 92.2 92.4 93.0 93.0 Max. traction Power Factor 0.84 0.43 0.69 0.79 Max. compression Non drive end Drive end Bearing type 6309 Z C3 6209 Z C3 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 20000 h 20000 h Lubricant amount 9 g 13 g

Mobil Polyrex EM

Notes

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.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



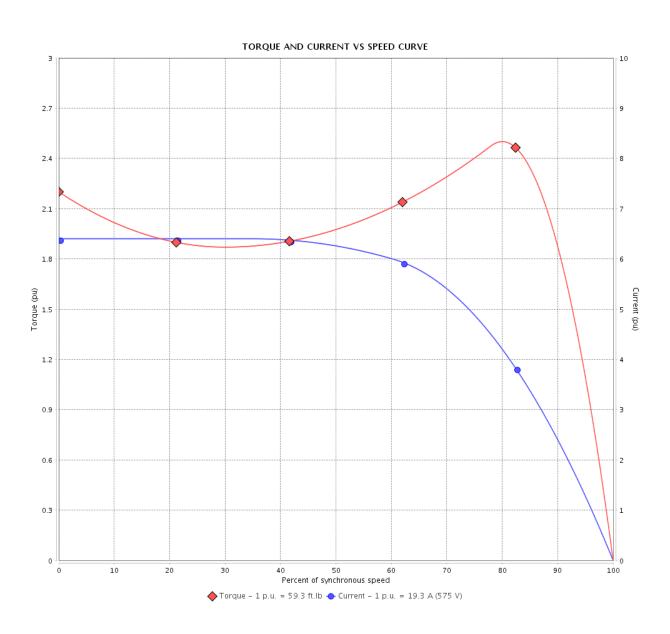
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486171

Catalog #: 02018OT3H256JP-W40



Performance : 575 V 60 Hz 4P Rated current : 19.3 A Moment of inertia (J) : 3.13 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.3 ft.lb : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 46s (cold) 26s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



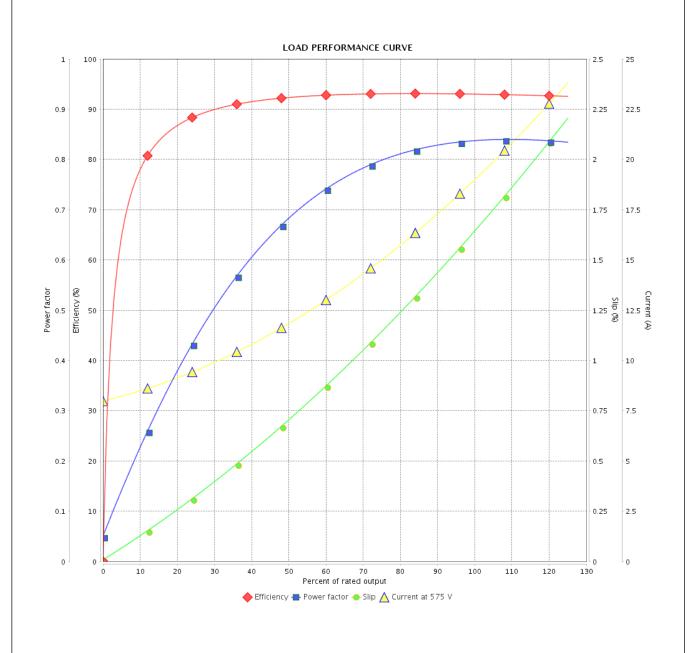
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486171

Catalog #: 02018OT3H256JP-W40



Performance		: 575 V 60 Hz 4P						
Rated current		9.3 A Moment of inertia (J)		: 3.13 sq.ft.lb				
LRC		6.4	Duty cycle	Duty cycle				
Rated torque		59.3 ft.lb	Insulation	Insulation class		:F		
Locked rotor torque		220 %	Service fa	Service factor				
Breakdown torque	: 2	250 %	Temperatu	Temperature rise				
Rated speed	: 1	1770 rpm Design			: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



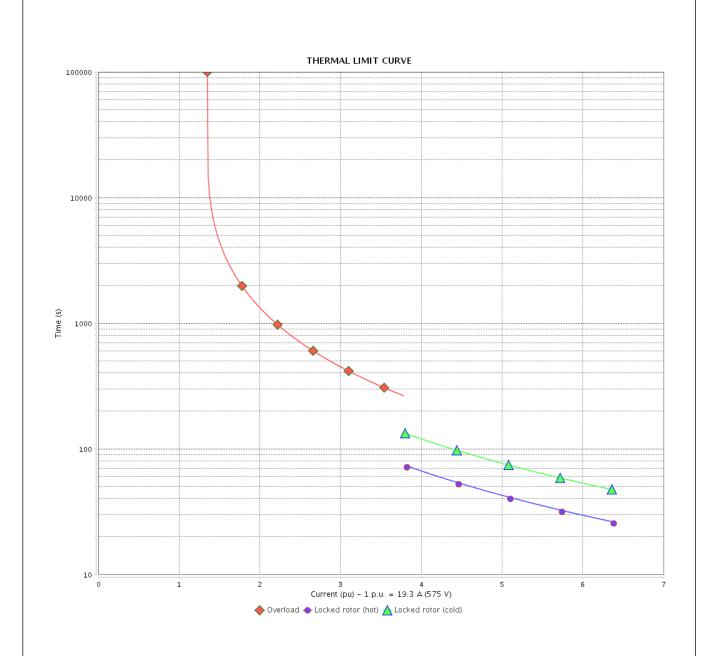
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Product line		: W40 JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14486171	
		,		Catalog # :	02018OT3H2	56JP-W40
Performance	:	575 V 60 Hz 4P				
Rated current		19.3 A	Moment o	of inertia (J)	: 3.13 sq.ft.lb	
LRC Rated torque		6.4 59.3 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	220 %	Service fa	actor	: 1.25	
Breakdown torqu Rated speed		250 % 1770 rpm	Temperate Design	ure rise	: 80 K : B	
			_ 55.911		· -	
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 :

Checked by

Date

14/04/2022

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

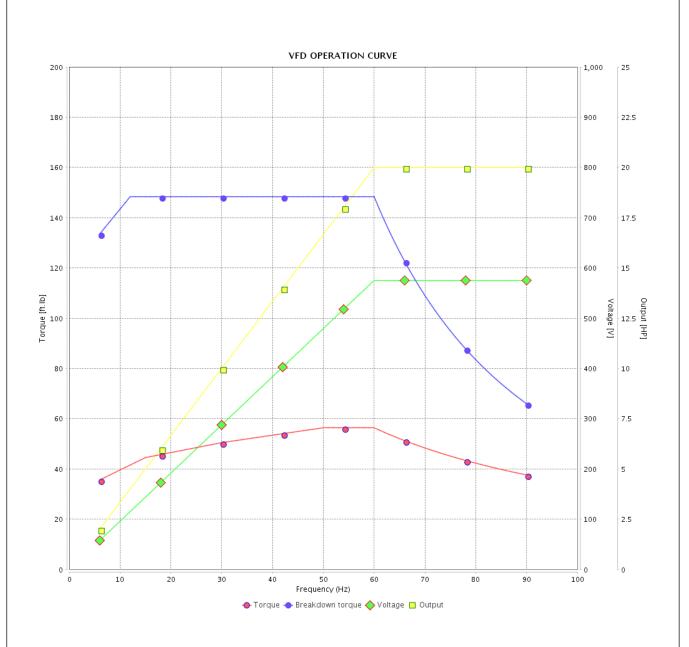
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Revision



Performance	: 57	75 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 59 jue : 22 ie : 28	9.3 A Moment of inertia (J) 4 Duty cycle 9.3 ft.lb Insulation class 20 % Service factor 50 % Temperature rise 770 rpm Design		class ctor	: 3.13 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Performed by						

