DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JP Pump NEMA Premium Product code: 14328079 Efficiency Three-Phase Catalog #: 02018ET3V256JP-S Frame : 254/6JP Locked rotor time : 28s (cold) 16s (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 : 200/400 V : 1000 m.a.s.l. Altitude Rated current : 56.8/28.4 A Protection degree : IP55 L. R. Amperes : 381/190 A Cooling method : IC411 - TEFC : 6.7x(Code H) LRC Mounting : F-1 No load current : 25.6/12.8 A Rotation¹ : Both (CW and CCW) Rated speed : 1765 rpm Noise level² : 68.0 dB(A) Starting method Slip : 1.94 % : Direct On Line Rated torque : 59.5 ft.lb Approx. weight³ : 227 lb Locked rotor torque : 270 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 2.64 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 93.0 : 743 lb Efficiency (%) 91.0 91.7 92.4 Max. traction Power Factor 0.82 : 970 lb 0.40 0.66 0.77 Max. compression Non drive end Drive end Bearing type 6309 Z C3 6208 Z C3 V'Ring Sealing V'Ring Lubrication interval 20000 h 20000 h Lubricant amount 13 g 8 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



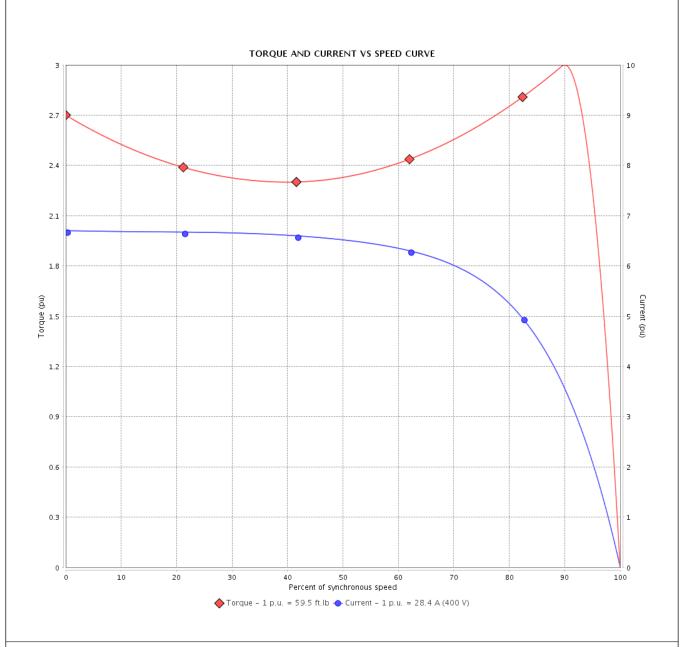
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14328079

Catalog #: 02018ET3V256JP-S



 Performance
 : 200/400 V 60 Hz 4P

 Rated current
 : 56.8/28.4 A
 Moment of inertia (J)
 : 2.64 sq.ft.lb

 LRC
 : 6.7
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 59.5 ft.lb
 Insulation class
 : F

Locked rotor torque: 270 %Service factor: 1.15Breakdown torque: 300 %Temperature rise: 80 KRated speed: 1765 rpmDesign: B

Locked rotor time : 28s (cold) 16s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



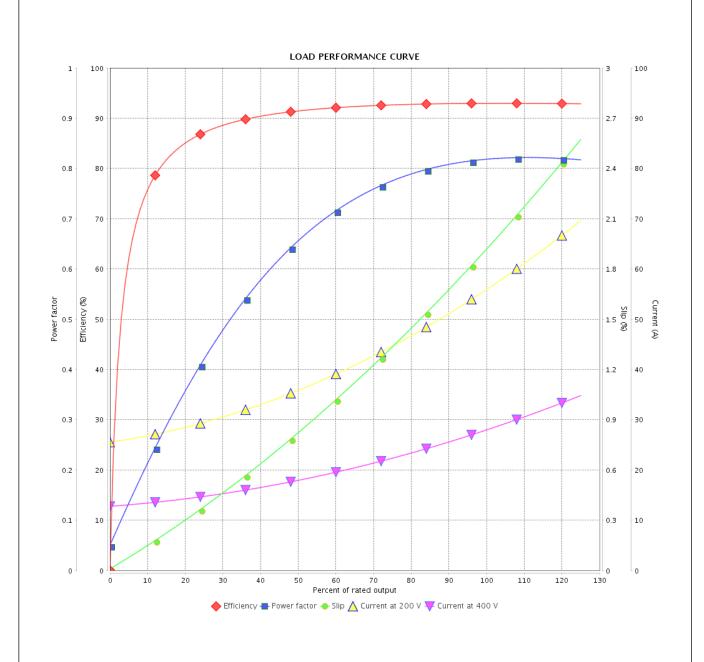
Customer

Product line : JP Pump NEMA Premium P

Efficiency Three-Phase

Product code: 14328079

Catalog #: 02018ET3V256JP-S



Performance	: 200/400 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 56.8/28.4 A : 6.7 : 59.5 ft.lb : 270 % : 300 % : 1765 rpm	ft.lb Duty cycle Insulation class Service factor Temperature rise		: 2.64 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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14/04/2022

Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



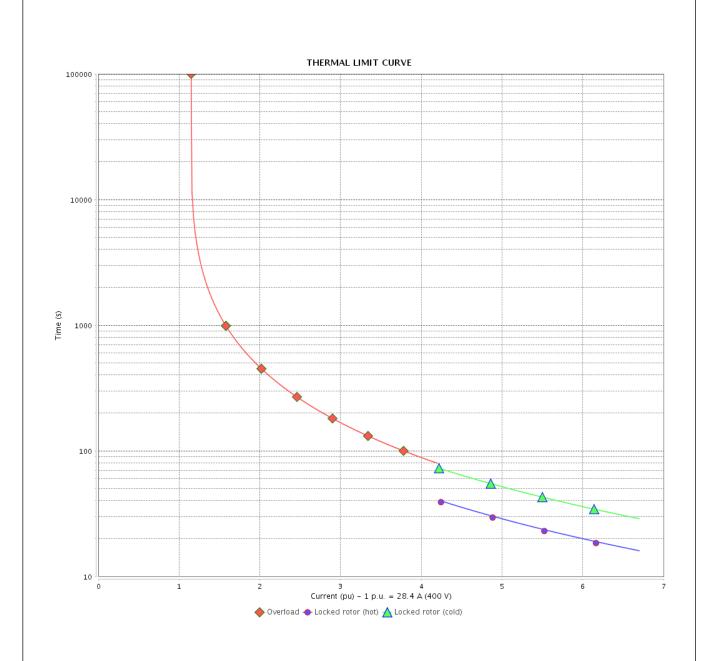
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Product line		JP Pump NEMA Premium fficiency Three-Phase	1	Product code :	14328079	
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Performance		00/400 V 60 Hz 4P	Momant	finartic (I)	. 2 64 00 4 16	
LRC		56.8/28.4 A Moment of Duty cycle			: 2.64 sq.ft.lb : Cont.(S1)	
Rated torque		9.5 ft.lb 70 %	Insulation of		: F : 1.15	
		00 %	Service factor Temperature rise		: 80 K	
		765 rpm	Design		: B	
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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

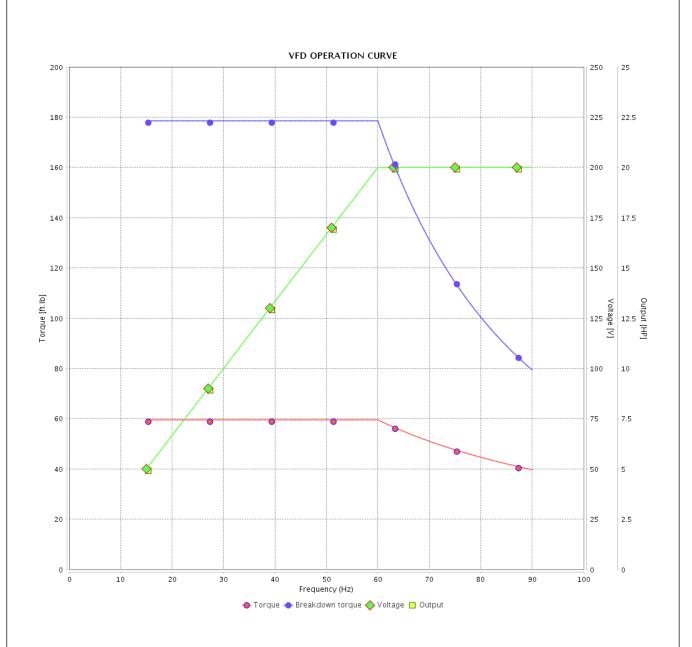
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14328079

Catalog #: 02018ET3V256JP-S



Performance : 200/400 V 60 Hz 4P Rated current : 56.8/28.4 A Moment of inertia (J) : 2.64 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 59.5 ft.lb Insulation class : F Rated torque Locked rotor torque : 270 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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