DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JP Pump NEMA Premium Product code: 13482999 Efficiency Three-Phase Catalog #: 02036OT3V254JPV-S Frame : 254/6JP Locked rotor time : 23s (cold) 13s (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 Altitude : 1000 m.a.s.l. : IC01 - ODP Cooling method Rated current : 54.7/27.4 A L. R. Amperes : 328/164 A Mounting : W-6 : Both (CW and CCW) LRC : 6.0x(Code G) Rotation¹ No load current : 19.6/9.78 A Noise level² : 70.0 dB(A) Rated speed : 3525 rpm Starting method : Direct On Line Slip : 2.08 % Approx. weight³ : 178 lb Rated torque : 29.8 ft.lb Locked rotor torque : 180 % Breakdown torque : 240 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.7848 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 90.0 91.0 : 253 lb Efficiency (%) 90.2 91.0 Max. traction Power Factor 0.49 0.87 : 432 lb 0.76 0.83 Max. compression Non drive end Drive end 6208 Z C3 Bearing type 6309 Z C3 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 15797 h 20000 h 8 g

Lubricant amount : 13 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



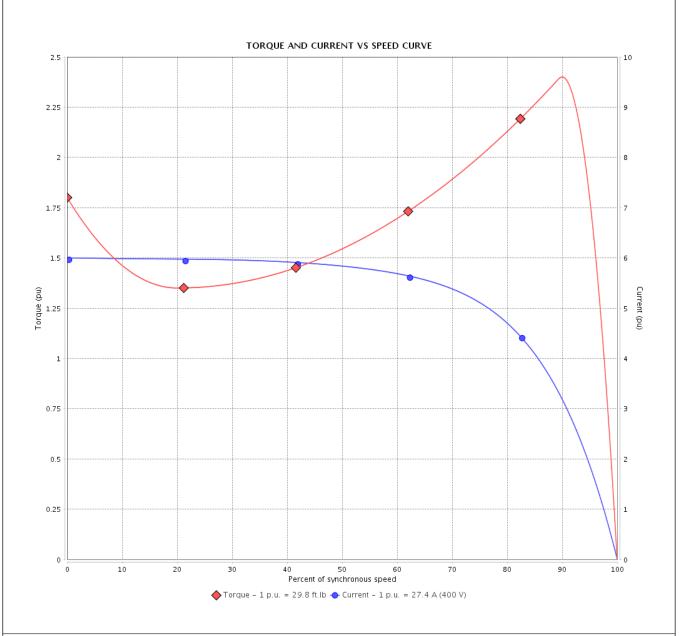
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482999

Catalog #: 02036OT3V254JPV-S



Performance	: 200/400 V 60 Hz 2P			
Rated current LRC	: 54.7/27.4 A : 6.0	Moment of inertia (J) Duty cycle	: 0.7848 sq.ft.lb : Cont.(S1)	
Rated torque	: 29.8 ft.lb	Insulation class	:F `´	
Locked rotor torque	: 180 %	Service factor	: 1.15	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 3525 rpm	Design	: B	
Looked veter times	. 22c (cold) 42c (bot)			

Locked rotor time : 23s (cold) 13s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



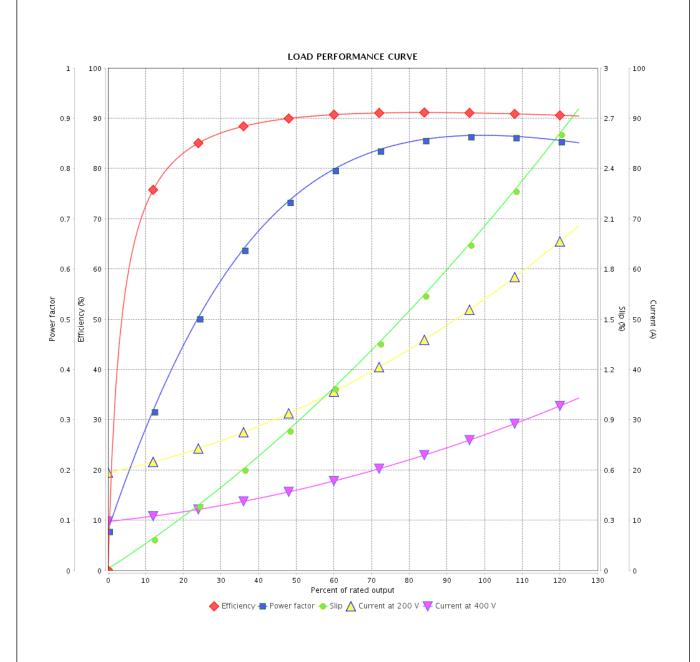
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482999

Catalog #: 02036OT3V254JPV-S



Performance	: 2	200/400 V 60 Hz 2P					
Rated current	: 5	4.7/27.4 A Moment of inertia (J)		: 0.7848 sq.ft.lb			
LRC		3.0	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		29.8 ft.lb	Insulation class		: F		
Locked rotor torque		180 %	Service factor		: 1.15		
Breakdown torque	e : 2	: 240 % Temperat		ıre rise	: 80 K		
Rated speed	: 3	3525 rpm	Design		: B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



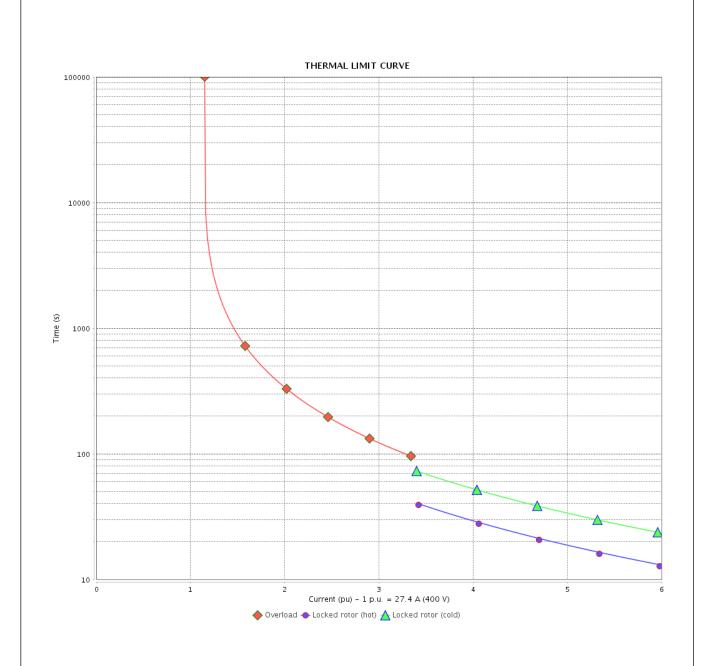
Customer	:					
Product line		: JP Pump NEMA Premium		Product code :	13482999	
	_	fficiency Three-Phase	(Catalog # :	02036OT3V2	54JPV-S
Performance		00/400 V 60 Hz 2P				
Rated current LRC	: 5 ₄ : 6.	4.7/27.4 A 0	Moment of Duty cycle	f inertia (J)	: 0.7848 sq.ft.l : Cont.(S1)	b
Rated torque	: 29	9.8 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		30 % 40 %	Service far Temperatu		: 1.15 : 80 K	
Rated speed		525 rpm	Design		: B	
Heating constant						
Cooling constant	•	Oh avana O	T	D-v(Ob. 1	
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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

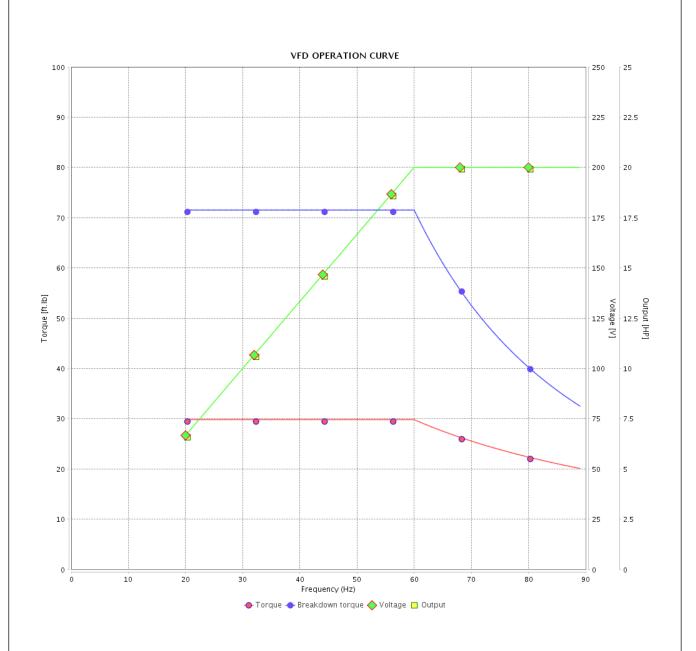
14/04/2022

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482999

Catalog #: 02036OT3V254JPV-S



Performance : 200/400 V 60 Hz 2P Rated current : 54.7/27.4 A Moment of inertia (J) : 0.7848 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.0 Insulation class : 29.8 ft.lb : F Rated torque Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3525 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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