DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JP Pump NEMA Premium Product code: 14328057 Efficiency Three-Phase Catalog #: 01518ET3V254JP-S Frame : 254/6JP Locked rotor time : 34s (cold) 19s (hot) Output : 15 HP (11 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 : 41.9/20.9 A Protection degree : IP55 L. R. Amperes : 272/136 A Cooling method : IC411 - TEFC LRC : 6.5x(Code G) Mounting : F-1 No load current : 19.9/9.95 A Rotation¹ : Both (CW and CCW) Rated speed : 1770 rpm Noise level² : 68.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 44.5 ft.lb Approx. weight³ : 197 lb Locked rotor torque : 250 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 2.15 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 92.4 Efficiency (%) 90.8 91.0 92.4 Max. traction : 542 lb Power Factor 0.39 0.76 0.82 : 739 lb 0.64 Max. compression Non drive end Drive end 6208 Z C3 Bearing type 6309 Z C3 V'Ring Sealing Without Bearing Seal 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



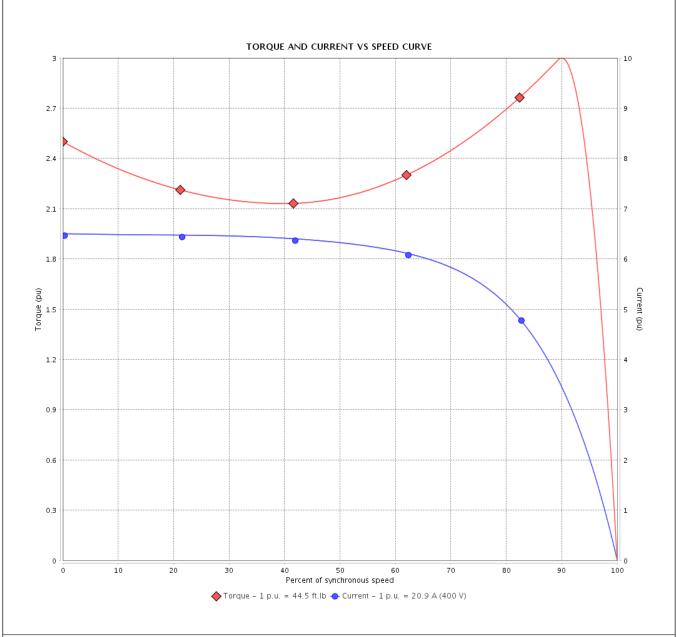
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14328057

Catalog #: 01518ET3V254JP-S



Performance : 200/400 V 60 Hz 4P Rated current : 41.9/20.9 A Moment of inertia (J) : 2.15 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 44.5 ft.lb Insulation class Rated torque : F : 250 % Service factor : 1.15 Locked rotor torque Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 34s (cold) 19s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



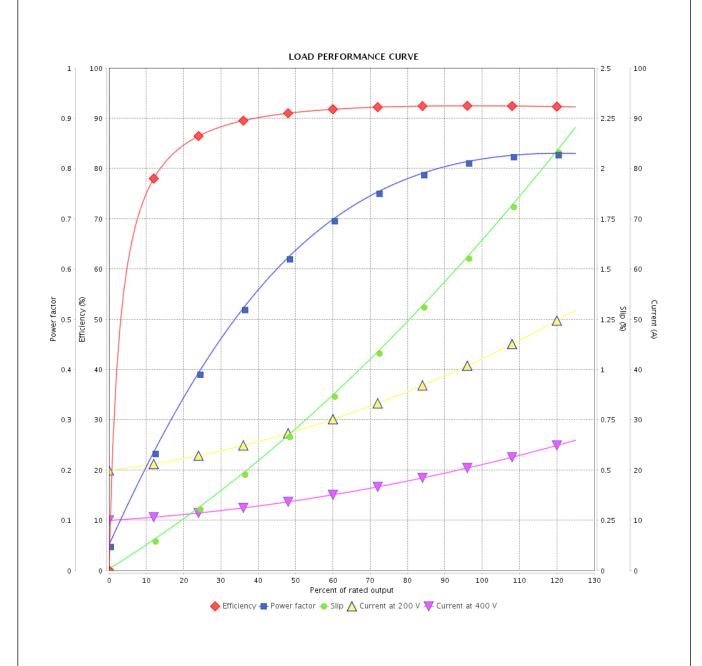
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14328057

Catalog #: 01518ET3V254JP-S



Performance	:	: 200/400 V 60 Hz 4P						
Rated current	:	: 41.9/20.9 A Moment of		f inertia (J)	: 2.15 sq.ft.lb			
LRC	:	6.5	Duty cycle		: Cont.(S1)			
Rated torque	:	44.5 ft.lb	Insulation class		:F			
Locked rotor torque	e :	: 250 % Service : 300 % Tempera		ctor	: 1.15			
Breakdown torque	:			Temperature rise				
Rated speed	:	1770 rpm	Design		: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



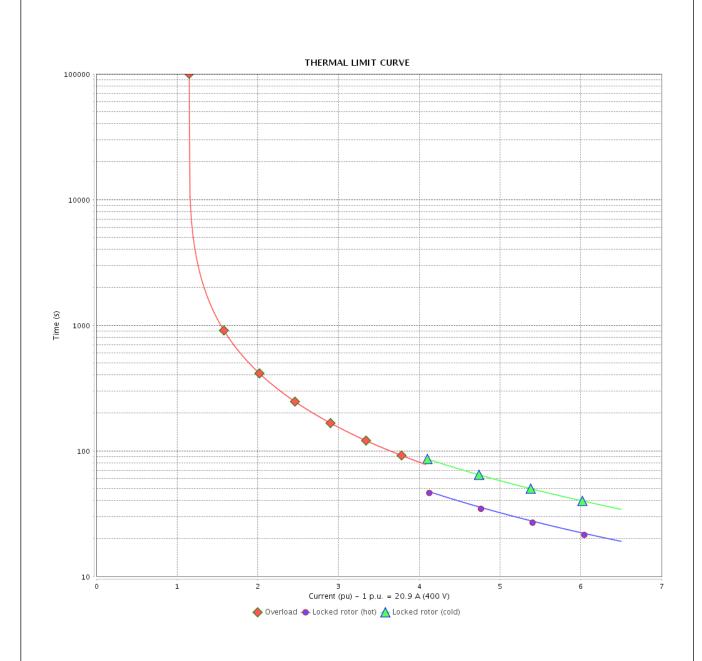
Customer	:					
Product line	:.	JP Pump NEMA Premium	1	Product code :	14328057	
	E	fficiency Three-Phase	(Catalog # :	01518ET3V25	54JP-S
Performance	• 20	00/400 V 60 Hz 4P				
Rated current		1.9/20.9 A	Moment or	f inertia (J)	: 2.15 sq.ft.lb	
LRC	: 6.	5	Duty cycle	!	: Cont.(S1)	
Rated torque Locked rotor torq		4.5 ft.lb 50 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	e : 30	00 %	Temperatu		: 80 K	
Rated speed	: 17	770 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summers	ı	Performed	Checked	Date
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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



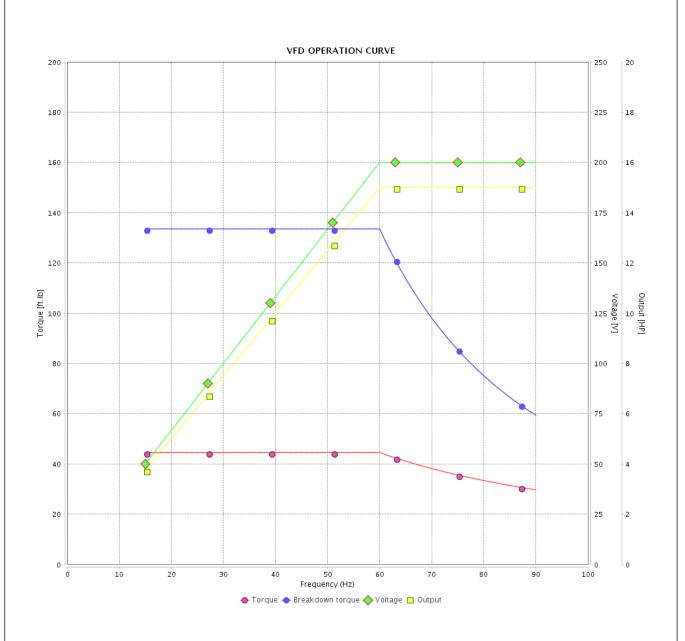
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14328057

Catalog #: 01518ET3V254JP-S



Performance	: 200/400 V 60 Hz 4P				
Rated current	: 41.9/20.9 A Moment of inertia (J)		a (J)	: 2.15 sq.ft.lb	
LRC	: 6.5	Duty cycle		: Cont.(S1)	
Rated torque	: 44.5 ft.lb	Insulation class		:F	
Locked rotor torque	: 250 %	Service factor		: 1.15	
Breakdown torque	: 300 %	Temperature rise		: 80 K	
Rated speed	: 1770 rpm	Design		: B	
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13/04/2022

Date

