### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : JP Pump NEMA Premium Product code: 13500644 Efficiency Three-Phase Catalog #: 00156OT3V143JP-S Frame : 143/5JP Locked rotor time : 34s (cold) 19s (hot) Output : 1.5 HP (1.1 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Frequency : 60 Hz Rated voltage : 200/400 V Altitude : 1000 m.a.s.l. Cooling method Rated current : 4.25/2.13 A : IC01 - ODP L. R. Amperes Mounting : F-1 : 36.6/18.3 A : Both (CW and CCW) LRC : 8.6x(Code K) Rotation<sup>1</sup> No load current : 1.86/0.930 A Noise level<sup>2</sup> : 62.0 dB(A) Rated speed : 3510 rpm Starting method : Direct On Line Slip : 2.50 % Approx. weight<sup>3</sup> : 29.3 lb Rated torque : 2.24 ft.lb Locked rotor torque : 210 % Breakdown torque : 330 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.0835 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 84.0 84.0 : 49 lb Efficiency (%) 81.1 81.5 Max. traction Power Factor 0.83 0.89 : 79 lb 0.45 0.73 Max. compression Drive end Non drive end Bearing type 6206 ZZ 6203 ZZ

Sealing Without Bearing Seal Without Bearing Seal Lubrication interval

Lubricant amount

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



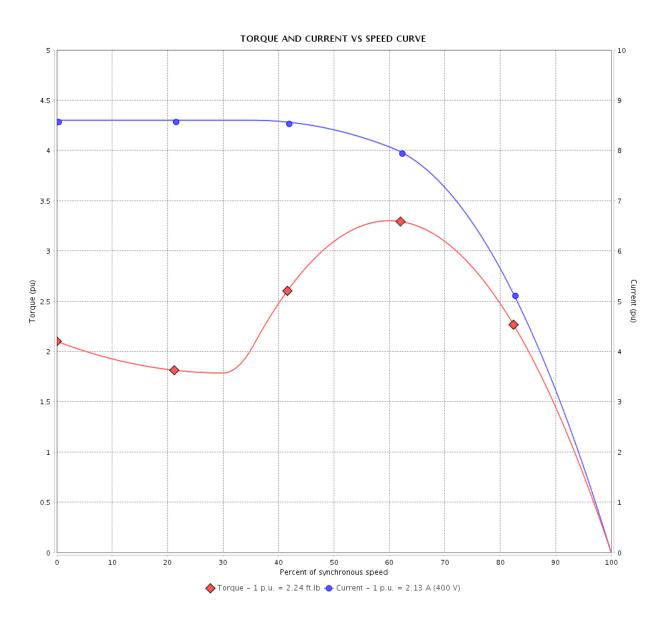
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13500644

Catalog #: 00156OT3V143JP-S



Performance : 200/400 V 60 Hz 2P Rated current : 4.25/2.13 A Moment of inertia (J) : 0.0835 sq.ft.lb **LRC** : 8.6 Duty cycle : Cont.(S1) : F : 2.24 ft.lb Insulation class Rated torque : 210 % Service factor Locked rotor torque : 1.15 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 3510 rpm Design : B

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

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



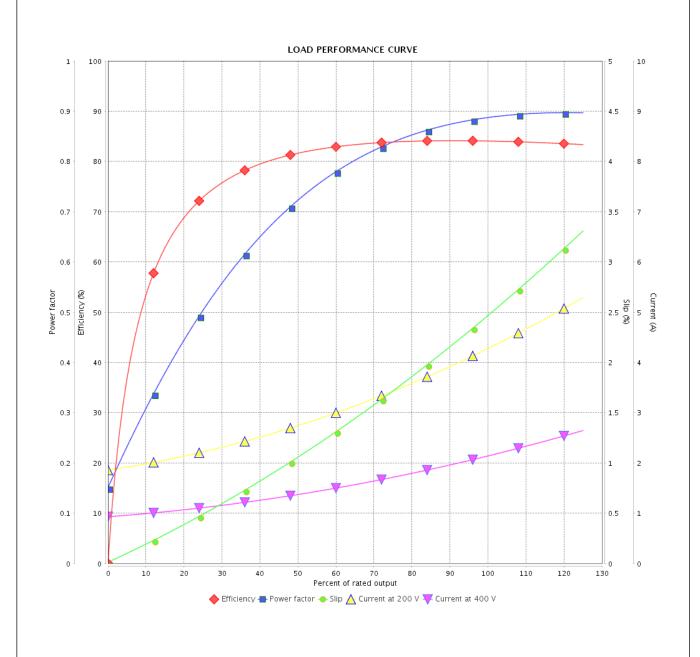
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13500644

Catalog # : 00156OT3V143JP-S



Performance	::	: 200/400 V 60 Hz 2P					
Rated current	: •	: 4.25/2.13 A Moment of		ent of inertia (J) : 0.0835		sq.ft.lb	
LRC		8.6	Duty cycle		: Cont.(S1)		
Rated torque	::	2.24 ft.lb	Insulation class		: F		
Locked rotor torque		210 %	Service factor		: 1.15		
Breakdown torque	e ::	: 330 % : 3510 rpm		Temperature rise Design			
Rated speed	::						
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



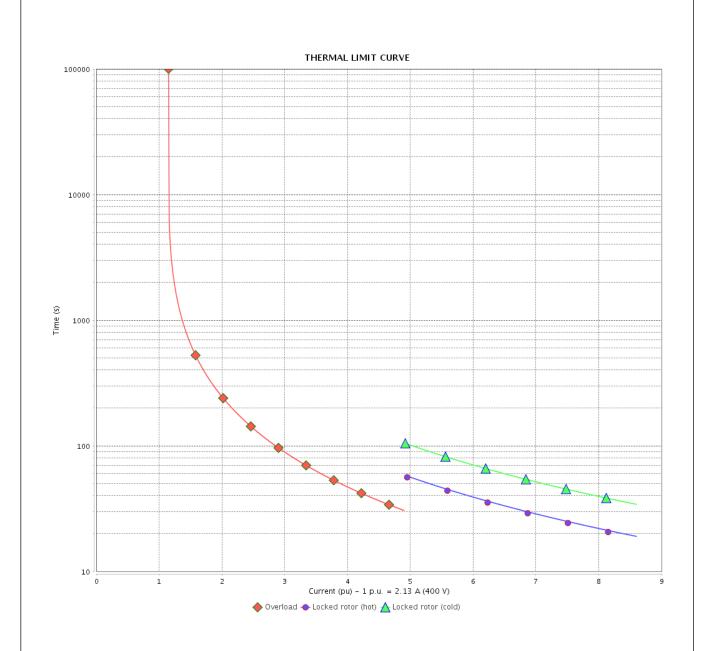
Customer		:				
Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	13500644	
		Lindericy Trifee-i flase		Catalog # :	00156OT3V	I43JP-S
Performance	:	: 200/400 V 60 Hz 2P				
Rated current		: 4.25/2.13 A	Moment of	of inertia (J)	: 0.0835 sq.ft.l	b
LRC		: 8.6	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torc		: 2.24 ft.lb : 210 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ie :	: 330 %	Temperat		: 80 K	
Rated speed	:	: 3510 rpm	Design		: B	
Heating constant						
Cooling constant	t	01 0			<b>O</b>	<b>.</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



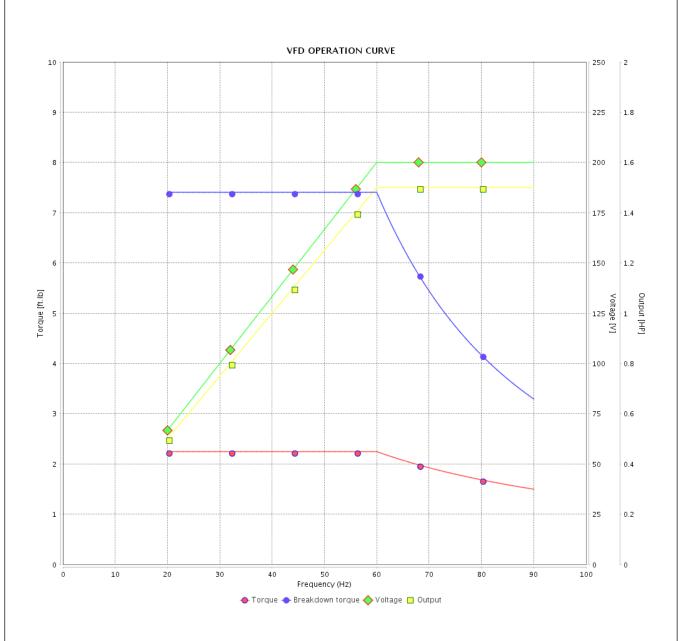
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13500644

Catalog #: 00156OT3V143JP-S



Performance	: 200/400 V 60 Hz 2P				
Rated current LRC	: 4.25/2.13 A Moment of inertia (J) : 8.6 Duty cycle		: 0.0835 sq.ft.lb : Cont.(S1)		
Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.24 ft.lb : 210 % : 330 % : 3510 rpm	Insulation class Service factor Temperature rise Design	: F : 1.15 : 80 K : B	: 1.15 : 80 K	
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Date

