DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14270421 Efficiency Three-Phase Catalog #: 06018OT3E364JP-W40 Frame : 364/5JP Locked rotor time : 34s (cold) 19s (hot) Output : 60 HP (45 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 140/69.9 A Protection degree : IP23 L. R. Amperes : 909/454 A Cooling method : IC01 - ODP : 6.5x(Code G) LRC Mounting : F-1 No load current : 49.4/24.7 A Rotation¹ : Both (CW and CCW) Rated speed : 1780 rpm Noise level² : 69.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 177 ft.lb Approx. weight³ : 770 lb Locked rotor torque : 200 % : 240 % Breakdown torque Insulation class : F Service factor : 1.25 Moment of inertia (J) : 15.6 sq.ft.lb

Drive end
Bearing typeDrive end
6314 C3Non drive end
6212 Z C3Sealing: Without Bearing Seal
Lubrication interval
Lubricant amount: 20000 hWithout Bearing Seal
20000 h

100%

95.0

0.85

Foundation loads

Max. compression

Max. traction

Lubricant amount : 27 g
Lubricant type : Mobil Polyrex EM

75%

95.0

0.82

: B

50%

94.5

0.73

Notes

Design

Output

Efficiency (%)

Power Factor

USABLE @208V 155A SF 1.15 SFA 178A

25%

94.4

0.48

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.

: 1251 lb

: 2021 lb

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



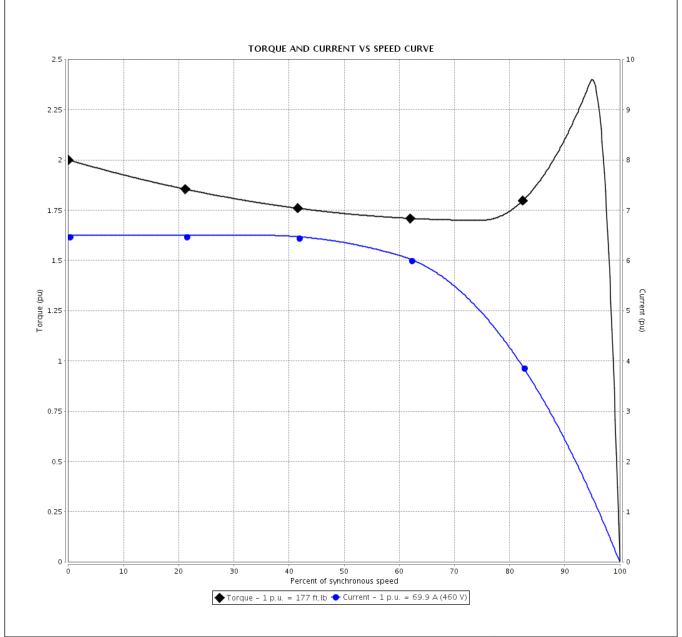
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270421

Catalog #: 06018OT3E364JP-W40



: 230/460 V 60 Hz 4P Performance Rated current : 140/69.9 A Moment of inertia (J) : 15.6 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



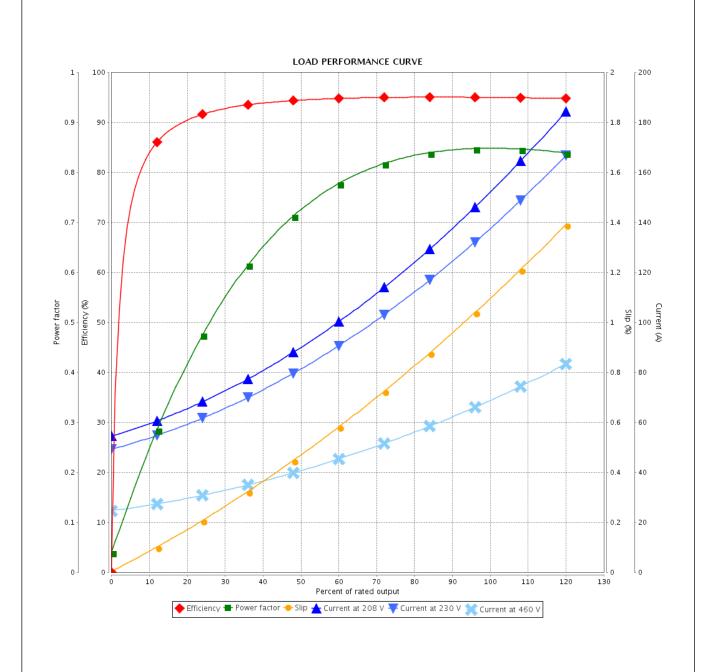
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270421

Catalog #: 06018OT3E364JP-W40



Performance	: 23	: 230/460 V 60 Hz 4P						
Rated current :		10/69.9 A	Moment of	Moment of inertia (J)				
LRC : 6.5		5	Duty cycle		: Cont.(S1)			
Rated torque : 1		77 ft.lb	Insulation class		: F			
•		00 %	Service factor		: 1.25			
Breakdown torque		10 %	Temperature rise		: 80 K			
Rated speed	: 17	780 rpm	Design		: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



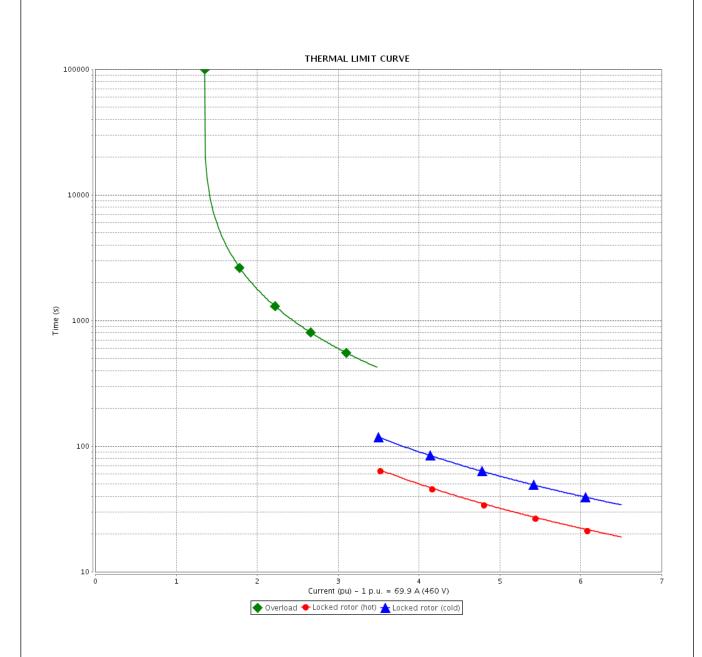
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Product line		W40 JP Pump NEMA Prem fficiency Three-Phase	ium	Product code :	14270421	
		•		Catalog # :	06018OT3E3	64JP-W40
Dorforman	. 01	20/460 \/ 60 \ - 45				
Performance Rated current		30/460 V 60 Hz 4P 40/69.9 A	Moment	of inertia (J)	: 15.6 sq.ft.lb	
LRC	: 6.	.5	Duty cycle	9	: Cont.(S1)	
Rated torque		77 ft.lb	Insulation Service fa	class	: F	
Locked rotor tord Breakdown torqu		00 % 40 %	Temperati		: 1.25 : 80 K	
Rated speed		780 rpm	Design		: B	
Heating constant	•					
Cooling constant				,	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 :

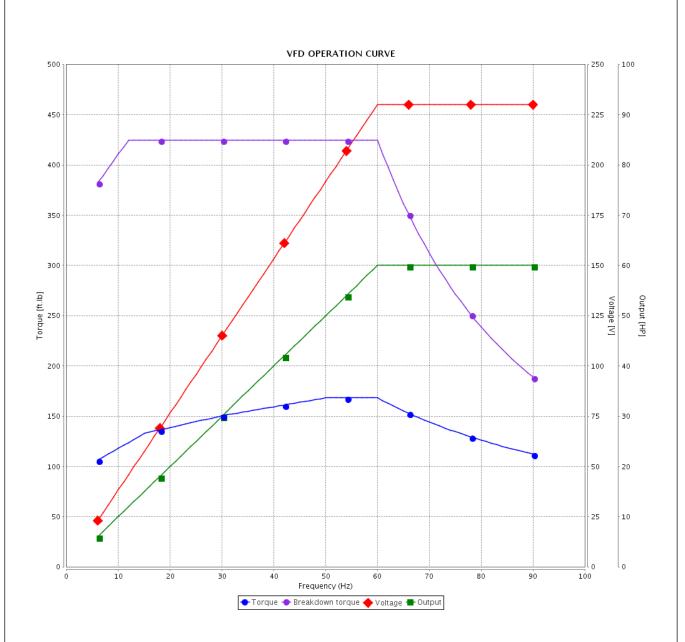
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270421

Catalog #: 06018OT3E364JP-W40

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Performance	: 230/460 V 60 Hz 4P				
Rated current	: 140/69.9 A	Moment of inertia (J)		: 15.6 sq.ft.lb	
LRC	: 6.5	Duty cycle		: Cont.(S1)	
Rated torque	: 177 ft.lb	Insulation class		: F	
Locked rotor torque	: 200 %	Service factor		: 1.25	
Breakdown torque	: 240 %	Temperature rise		: 80 K	
Rated speed	: 1780 rpm	Design		: B	
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10/04/2020

Date

