### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14270422 Efficiency Three-Phase Catalog #: 06018OT3G364JP-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 : 460 V : 1000 m.a.s.l. Altitude Rated current : 69.9 A Protection degree : IP23 L. R. Amperes : 454 A Cooling method : IC01 - ODP LRC : 6.5x(Code G) Mounting : F-1 No load current : 24.7 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1780 rpm Noise level<sup>2</sup> : 69.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 177 ft.lb Approx. weight<sup>3</sup> : 785 lb Locked rotor torque : 200 % : 240 % Breakdown torque Insulation class : F Service factor : 1.25 Moment of inertia (J) : 15.6 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 95.0 Efficiency (%) 94.4 94.5 95.0 Max. traction : 1243 lb Power Factor 0.85 0.48 0.73 0.82 Max. compression : 2028 lb Non drive end Drive end 6314 C3 Bearing type 6212 Z C3

Bearing type : 6314 C3 6212 Z C3
Sealing : Without Bearing Seal
Lubrication interval : 20000 h
Lubricant amount : 27 g 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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/04/2020			1/6	

### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



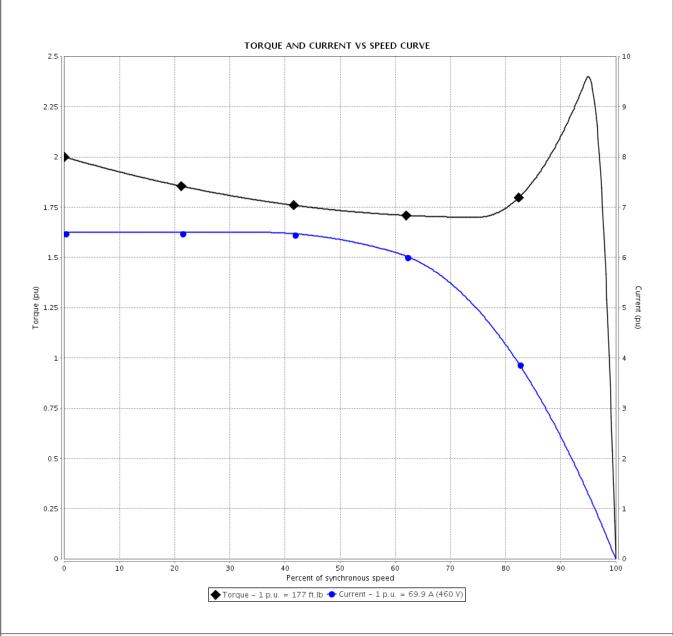
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270422

Catalog #: 06018OT3G364JP-W40



: 460 V 60 Hz 4P Performance Rated current : 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)

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/04/2020			2/6	

## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer

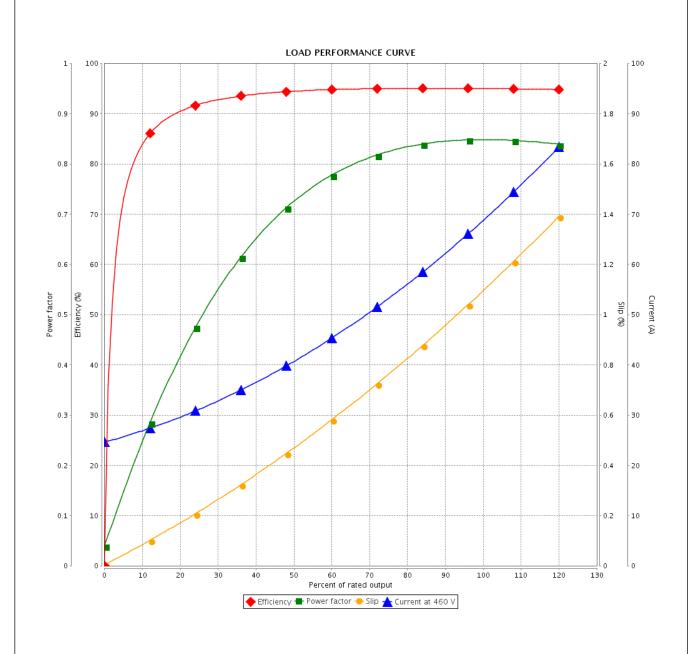
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270422

Catalog #: 06018OT3G364JP-W40

3/6



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

10/04/2020

Date

# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



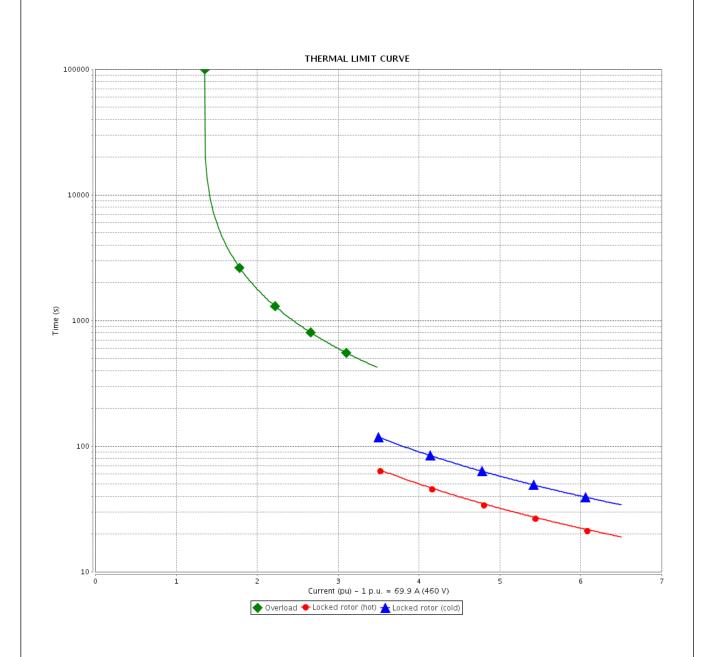
Customer	:					
Product line	: \ E1	W40 JP Pump NEMA Prem fficiency Three-Phase		Product code : Catalog # :	14270422 06018OT3G3	64JP-W40
Derference	- 44	20 1/ 00 11- 4D				
Performance Rated current		60 V 60 Hz 4P 9.9 A	Moment of	f inertia (J)	: 15.6 sq.ft.lb	
LRC	: 6.	5	Duty cycle		: Cont.(S1)	
Rated torque		77 ft.lb 00 %	Insulation Service fac		: F : 1.25	
Locked rotor tord Breakdown torqu		10 % 10 %	Temperatu		: 1.25 : 80 K	
Rated speed		780 rpm	Design		: B	
Heating constant						
Cooling constant		01 0	ı		01 1 1	
Rev.		Changes Summary		Performed	Checked	Date
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/04/2020			5/6	

## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

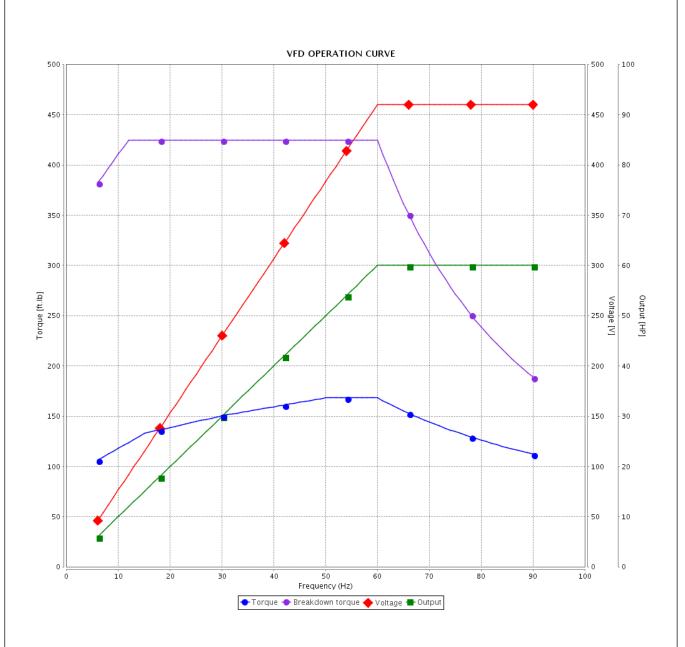
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270422

Catalog #: 06018OT3G364JP-W40

6/6



Performance	: 460 V 60 Hz 4P	: 460 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 69.9 A : 6.5 : 177 ft.lb : 200 % : 240 % : 1780 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 15.6 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B				
Rev.	Changes Summary		Performed	Checked	Date			
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10/04/2020

Date

