## **DATA SHEET**

Customer

#### Three Phase Induction Motor - Squirrel Cage



Product line : W40 JM Pump NEMA Premium Product code : 14269584

: W40 JM Pump NEMA Premium Product code : 14269584 Efficiency Three-Phase

Catalog # : 07536OT3E364JM-W40

Frame : 364/5JM Locked rotor time : 34s (cold) 19s (hot)
Output : 75 HP (55 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 : 170/84.8 A Protection degree : IP23 L. R. Amperes : 1119/560 A Cooling method : IC01 - ODP

Slip : 1.25 % Starting method : Direct On Line
Rated torque : 111 ft.lb Approx. weight³ : 740 lb

Locked rotor torque : 250 %

Breakdown torque : 250 %
Insulation class : F
Service factor : 1.25

25% 50% 75% 100% Output Foundation loads : 649 lb Efficiency (%) 91.0 91.7 93.0 93.6 Max. traction Power Factor 0.87 : 1390 lb 0.56 0.77 0.84 Max. compression

Drive endNon drive endBearing type: 6314 C36212 Z C3Sealing: Without Bearing SealWithout Bearing SealLubrication interval: 14418 h20000 h

Lubrication interval : 14418 h 20000 h
Lubricant amount : 27 g 13 g

Lubricant type : Mobil Polyrex EM

: 6.40 sq.ft.lb

: B

Notes

Moment of inertia (J)

Design

USABLE @208V 188A SF 1.15 SFA 216A

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



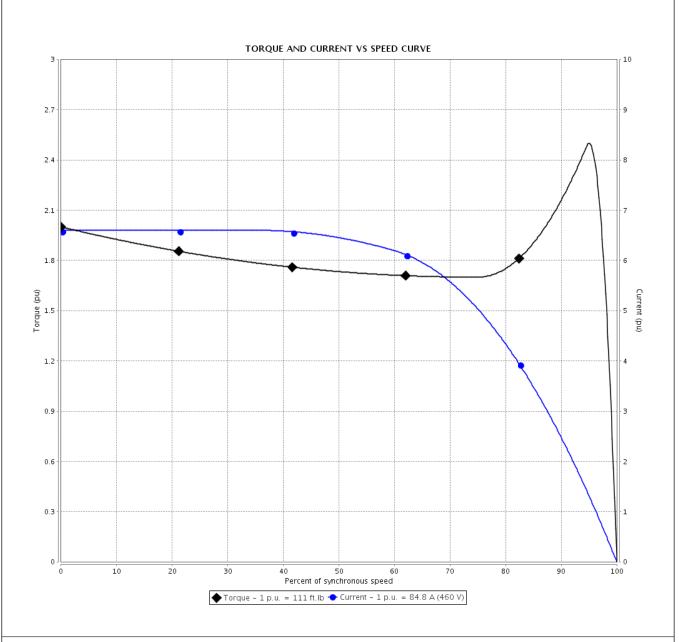
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269584

Catalog #: 07536OT3E364JM-W40



: 230/460 V 60 Hz 2P Performance Rated current : 170/84.8 A Moment of inertia (J) : 6.40 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 111 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3555 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



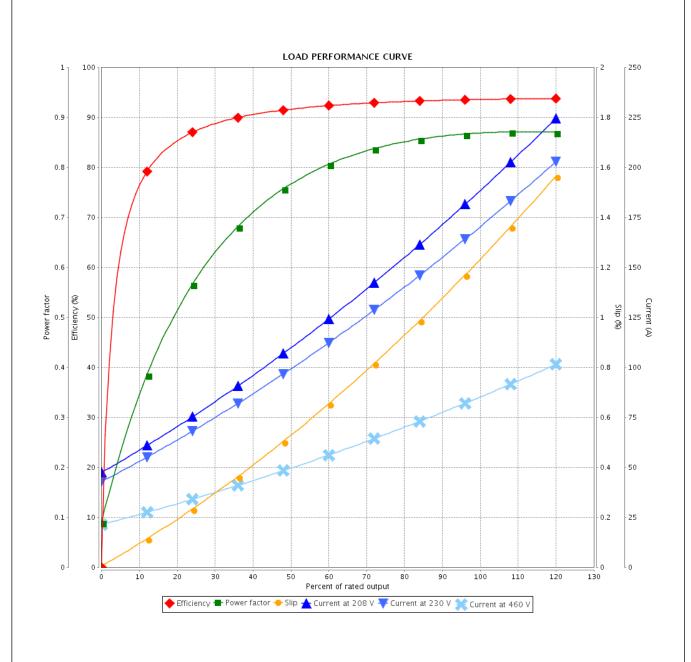
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269584

Catalog #: 07536OT3E364JM-W40



Performance	: 2	: 230/460 V 60 Hz 2P						
Rated current		70/84.8 A Moment of inertia (J)		: 6.40 sq.ft.lb				
LRC		5.6	Duty cycle	Duty cycle		: Cont.(S1)		
Rated torque		11 ft.lb	Insulation	Insulation class				
Locked rotor torque		.00 %	Service fa	Service factor		: 1.25		
Breakdown torque	: 2	250 %	Temperatu	Temperature rise				
Rated speed	: 3	555 rpm	Design		: B			
Rev.		Changes Summar	у	Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Date	10/04/2020				3/6			

# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



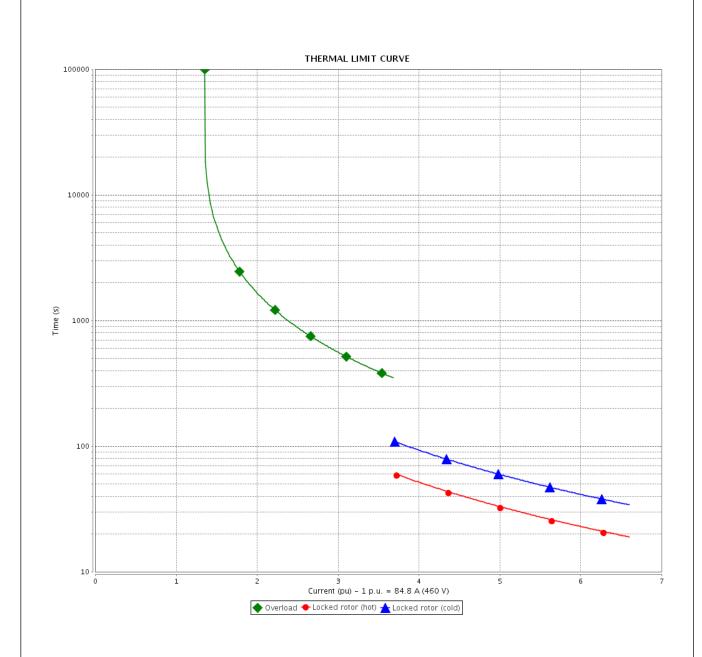
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Product line		: W40 JM Pump NEMA Pren Efficiency Three-Phase	nium	Product code :	14269584	
		<b>,</b>		Catalog # :	07536OT3E3	64JM-W40
Performance	:	230/460 V 60 Hz 2P				
Rated current	:	170/84.8 A	Moment o	f inertia (J)	: 6.40 sq.ft.lb	
LRC Rated torque		6.6 111 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torc		200 %	Service fa		: 1.25	
Breakdown torqu	ie :	250 %	Temperati		: 80 K	
Rated speed		3555 rpm	Design		: B	
Heating constant	<u> </u>					
Cooling constant						
Rev.		Changes Summary	ı	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	10/04/2020				4 / 6	1.07101011

# 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 :

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Date

10/04/2020

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

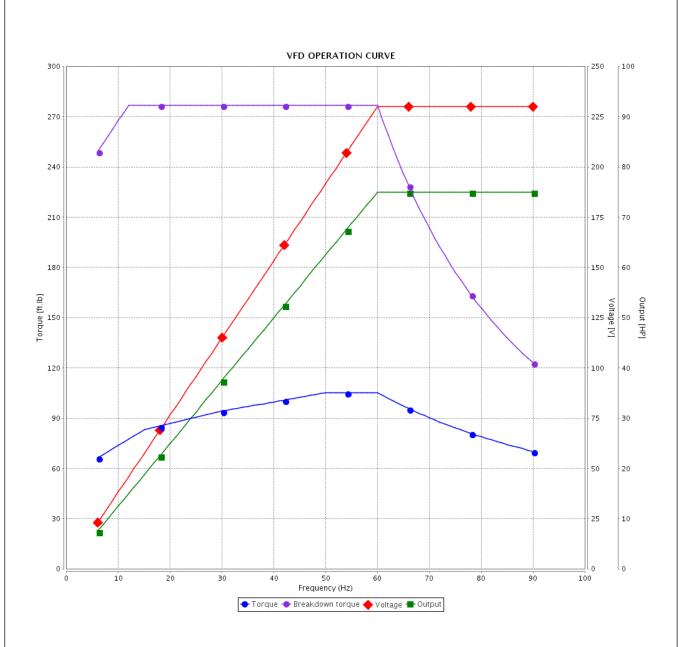
Product code: 14269584

Catalog #: 07536OT3E364JM-W40

Page

6/6

Revision



	-1					
Performance		: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ie	: 170/84.8 A : 6.6 : 111 ft.lb : 200 % : 250 % : 3555 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 6.40 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Summary	,	Performed	Checked	Date
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