### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JM Pump NEMA Premium Product code: 14269581 Efficiency Three-Phase Catalog #: 06018OT3H364JM-W40 Frame : 364/5JM 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 : 575 V : 1000 m.a.s.l. Altitude Rated current : 55.9 A Protection degree : IP23 L. R. Amperes : 363 A Cooling method : IC01 - ODP LRC : 6.5x(Code G) Mounting : F-1 No load current : 19.8 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 : 1063 lb Efficiency (%) 94.4 94.5 95.0 Max. traction Power Factor 0.85 0.48 0.73 0.82 Max. compression : 1848 lb Non drive end Drive end 6314 C3 Bearing type 6212 Z C3 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 20000 h 20000 h

Mobil Polyrex EM

27 g

Notes

Lubricant amount

Lubricant type

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.

13 g

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



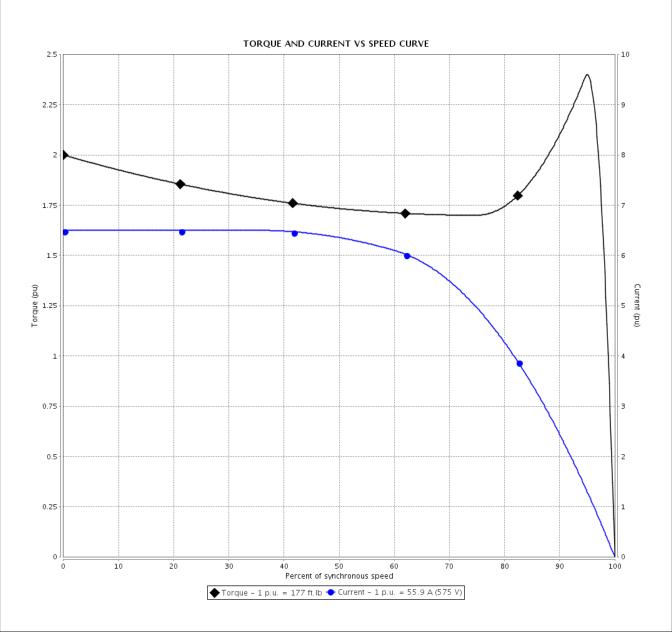
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269581

Catalog #: 06018OT3H364JM-W40



Performance : 575 V 60 Hz 4P Rated current : 55.9 A Moment of inertia (J) : 15.6 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 177 ft.lb : 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



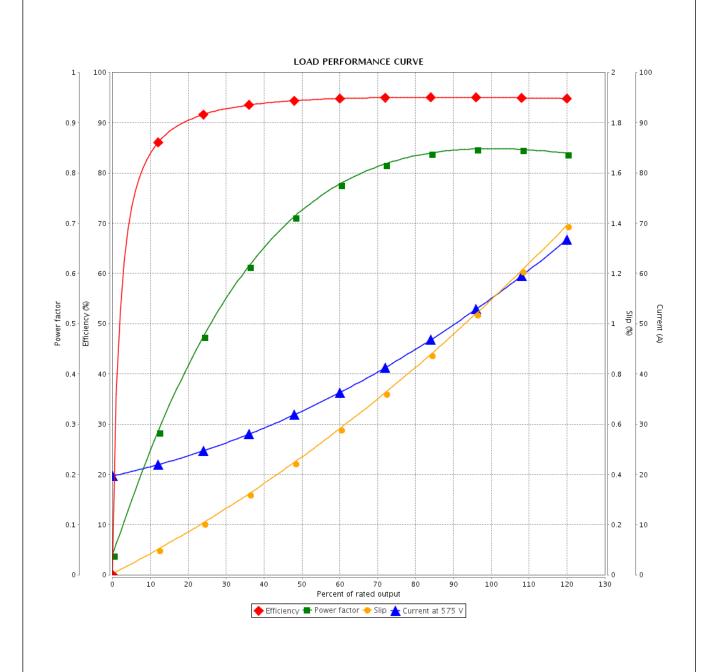
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269581

Catalog #: 06018OT3H364JM-W40



Performance	: 5	75 V 60 Hz 4P				
Rated current :		5.9 A	Moment o	Moment of inertia (J)		
LRC : 6.5		.5	Duty cycle	Duty cycle		
Rated torque : 17		77 ft.lb	Insulation class		: Cont.(S1) : F	
Locked rotor torqu	ie : 2	00 %	Service fa	Service factor		
Breakdown torque		40 %	Temperati	Temperature rise		
Rated speed	: 1	780 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
D ( )		T				
Performed by						
Checked by					Page	Revision
Date	10/04/2020	1			3/6	

# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



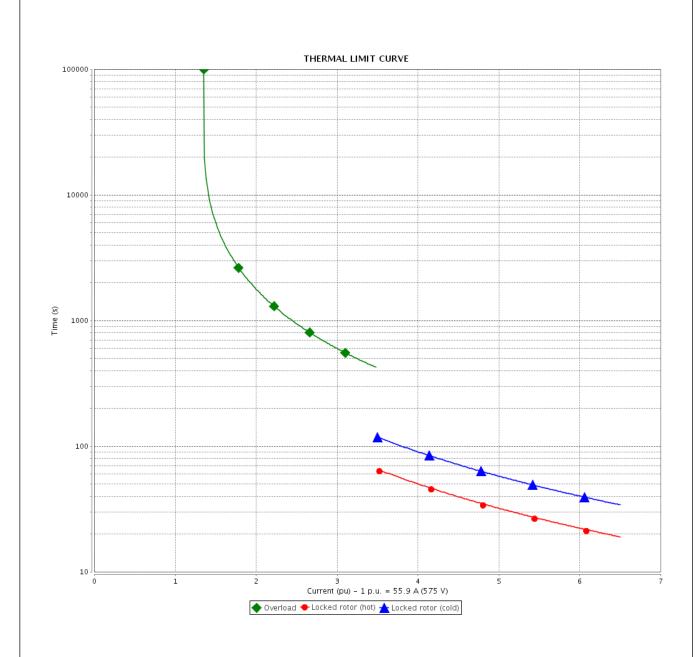
Customer	:					
Product line	:' E	W40 JM Pump NEMA Prem fficiency Three-Phase		Product code : Catalog # :	14269581 06018OT3H36	64JM-W40
Performance	: 5	75 V 60 Hz 4P				
Rated current LRC Rated torque	: 6 : 1	77 ft.lb	Duty cycle Insulation	class	: 15.6 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	ie : 2	00 % 40 % 780 rpm	Service fac Temperatu Design		: 1.25 : 80 K : B	
Heating constant	t					
Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
Data	10/04/2020			I	1/6	

# 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 :

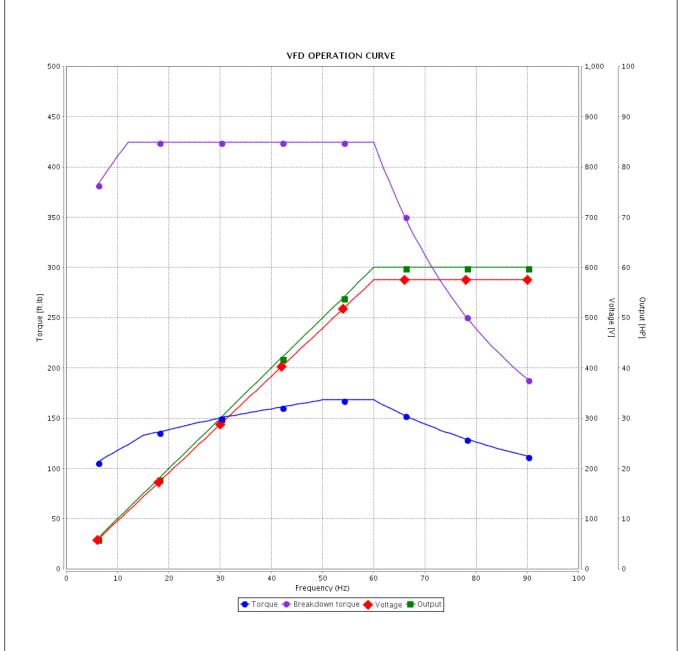
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269581

Catalog #: 06018OT3H364JM-W40

6/6



Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 55.9 A : 6.5 : 177 ft.lb : 200 % : 240 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 15.6 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

10/04/2020

Date

