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 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 : 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 Lubricant amount 27 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.

13 g

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



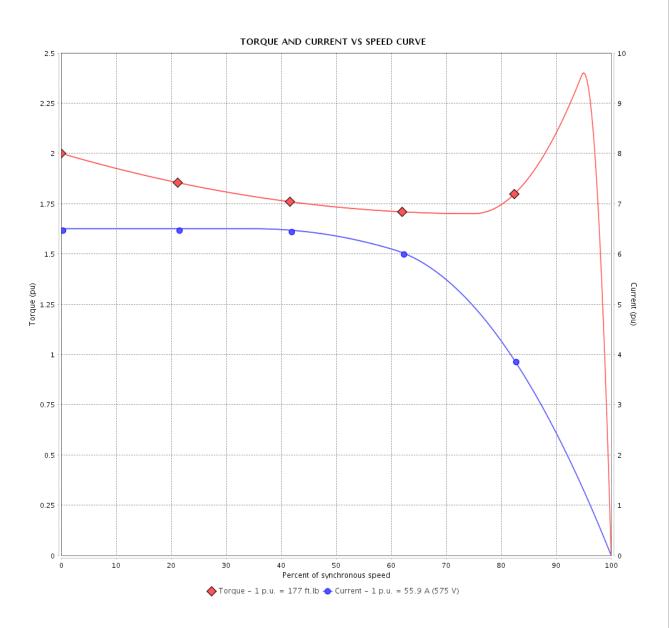
Customer :

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 Service factor Locked rotor torque : 200 % : 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	12/04/2022			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



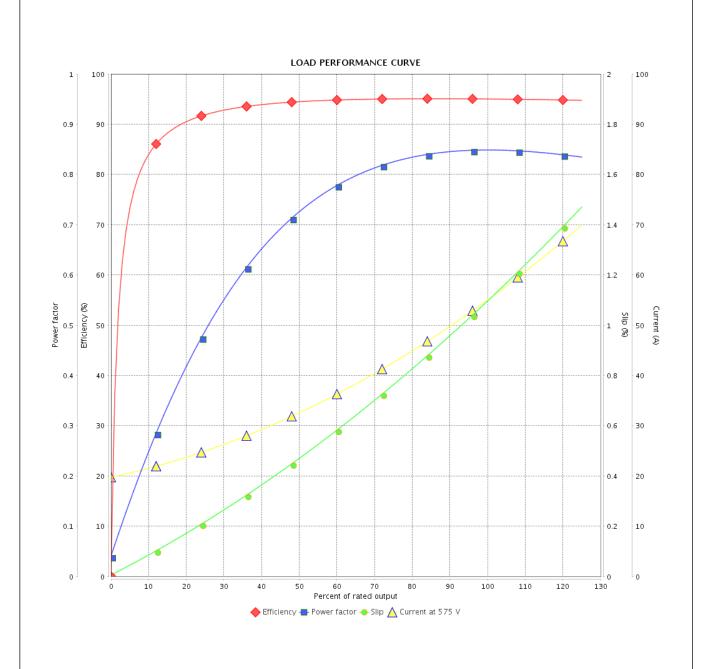
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269581

Catalog #: 06018OT3H364JM-W40



Performance	: 5	: 575 V 60 Hz 4P						
Rated current		55.9 A	Moment of inertia (J)		: 15.6 sq.ft.lb			
LRC		6.5	Duty cycle	Duty cycle		: Cont.(S1)		
Rated torque		177 ft.lb	Insulation class		:F			
Locked rotor torqu	e ::	200 %	Service fa	Service factor		: 1.25		
Breakdown torque	::	: 240 % Temperati : 1780 rpm Design		ıre rise	: 80 K			
Rated speed	:				: B			
Rev.		Changes Summa	ry	Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Date	12/04/2022				3/6			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



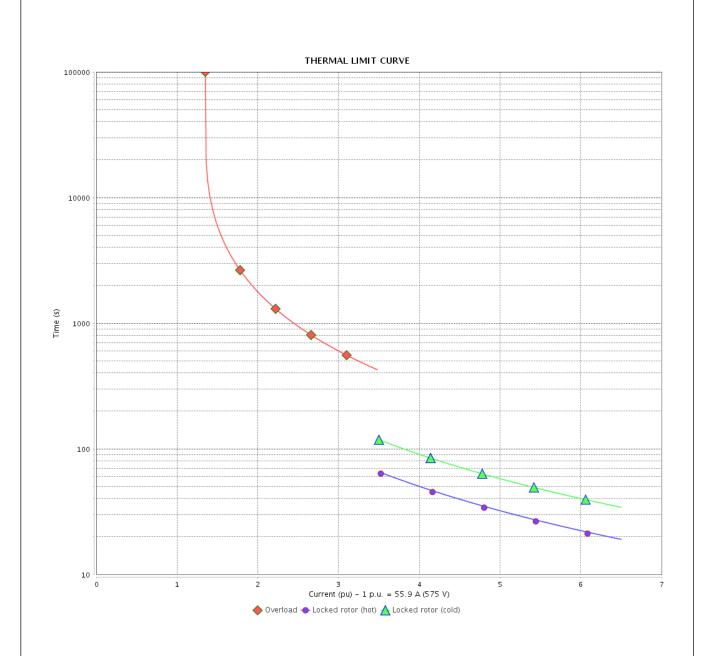
Customer		:			·		
Dun do at line		· WAO IN During NICMA Days		Dan deset and dese	44000504		
Product line		: W40 JM Pump NEMA Pren Efficiency Three-Phase	nium	Product code :	14269581		
				Catalog # :	06018OT3H3	64JM-W40	
Performance		: 575 V 60 Hz 4P	1				
Rated current LRC		: 55.9 A : 6.5	Moment of Duty cycle	of inertia (J)	: 15.6 sq.ft.lb : Cont.(S1)		
Rated torque		: 177 ft.lb	Insulation		: F		
Locked rotor torc		: 200 %	Service fa	ictor	: 1.25		
Breakdown torqu Rated speed		: 240 % : 1780 rpm	Temperate Design	ure rise	: 80 K : B		
Heating constant							
Cooling constant Rev.	•	Changes Summary		Performed	Checked	Date	
INGV.		Onanges Juninary		i enomieu	OHECKEU	Date	
Performed by							
Checked by					Page	Revision	
Date	12/04/2022				4/6		

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.	Changes Summary		Performed	Checked	Date
Checked by		_		Page	Revision
Date	12/04/2022	-		5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

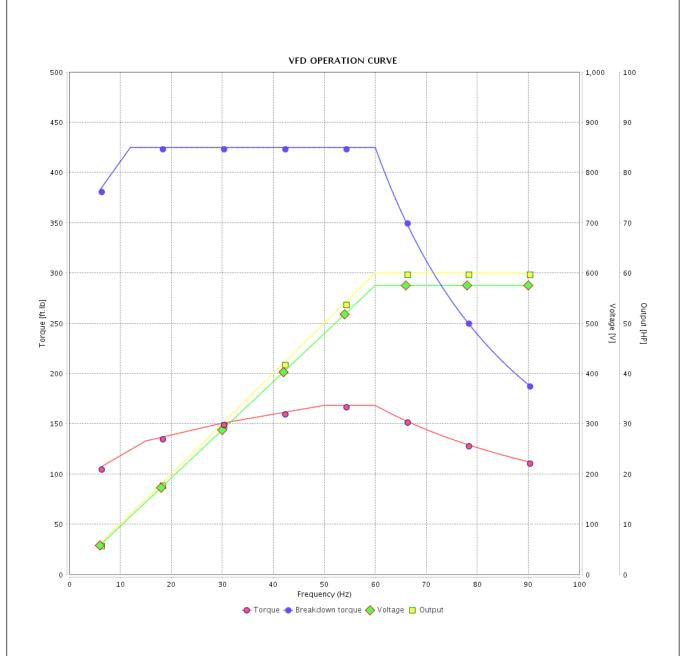
Product line : W40 JM Pump NEMA Premium

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		Performe	d Checked	Date
Performed by Checked by			Page	Revision

12/04/2022

Date

