DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14836796 Efficiency Three-Phase 07536OT3E364JPV-W40 Catalog #: Frame : 364/5JP 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 LRC : 6.6x(Code G) Mounting : W-6 No load current : 43.0/21.5 A Rotation¹ : Both (CW and CCW) Rated speed : 3555 rpm Noise level² : 84.0 dB(A) Starting method Slip : 1.25 % : Direct On Line Rated torque : 111 ft.lb Approx. weight³ : 693 lb Locked rotor torque : 200 % Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 6.40 sq.ft.lb Design : B

Foundation loads

Max. compression

Max. traction

Drive end
Bearing typeNon drive end
6314 C3Non drive end
6212 Z C3Sealing: Without Bearing Seal
Lubrication interval: 7209 hWithout Bearing Seal

100%

93.6

0.87

Lubricant amount : 27 g 13 g Lubricant type : Mobil Polyrex EM

75%

93.0

0.84

Output

Efficiency (%)

Power Factor

Notes

USABLE @208V 188A SF 1.15 SFA 216A

25%

91.0

0.56

50%

91.7

0.77

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.

: 673 lb

: 1366 lb

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



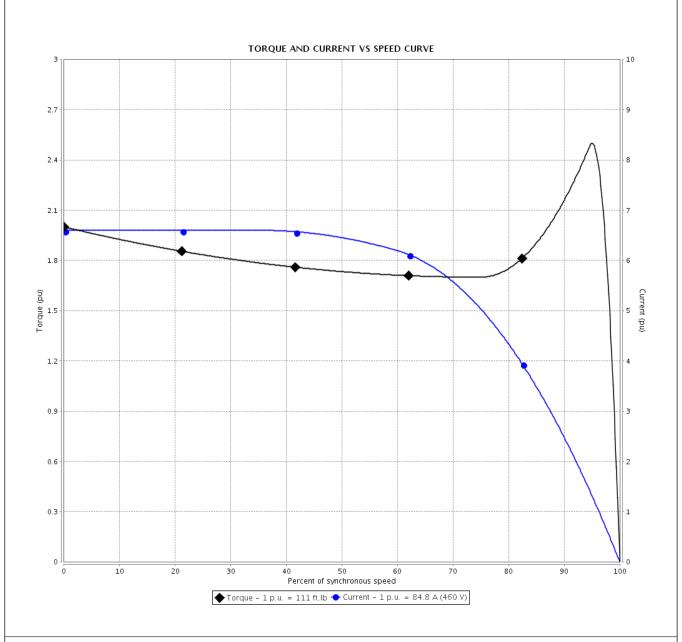
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836796

Catalog #: 07536OT3E364JPV-W40



 Performance
 : 230/460 V 60 Hz 2P

 Rated current
 : 170/84.8 A
 Moment of inertia (J)
 : 6.40 sq.ft.lb

 LRC
 : 6.6
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 111 ft.lb
 Insulation class
 : F

 Locked rotor torque
 : 200 %
 Service factor
 : 1.25

Locked rotor torque: 200 %Service factor: 1.25Breakdown torque: 250 %Temperature rise: 80 KRated speed: 3555 rpmDesign: 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



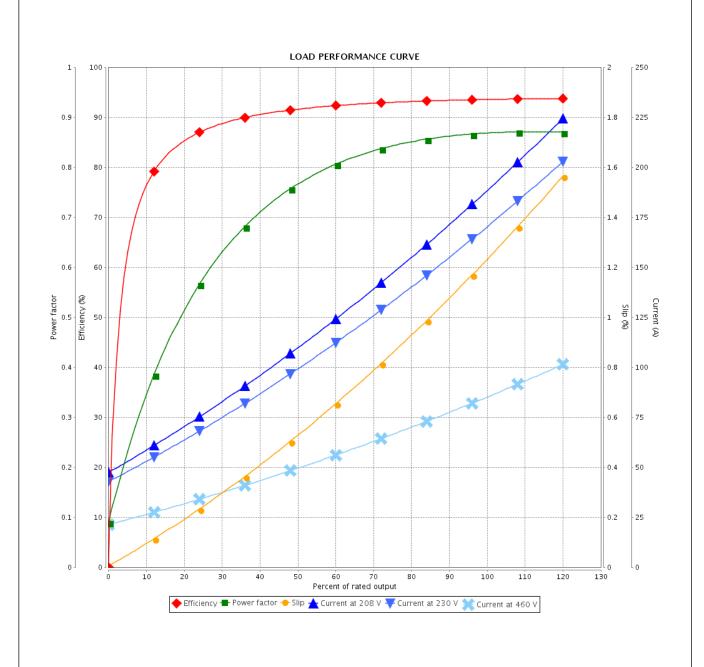
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836796

Catalog #: 07536OT3E364JPV-W40



Performance : 230/460 V 60 Hz 2P Rated current : 170/84.8 A	
LRC : 6.6 Duty cycle : Cont.(S1) Rated torque : 111 ft.lb Insulation class : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B	
Rated torque : 111 ft.lb Insulation class : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B	
Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B	
Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B	
Rated speed : 3555 rpm Design : B	
Rev. Changes Summary Performed Checked	
	Date
Performed by	
Checked by Page	Revision
Date 10/04/2020 3 / 6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



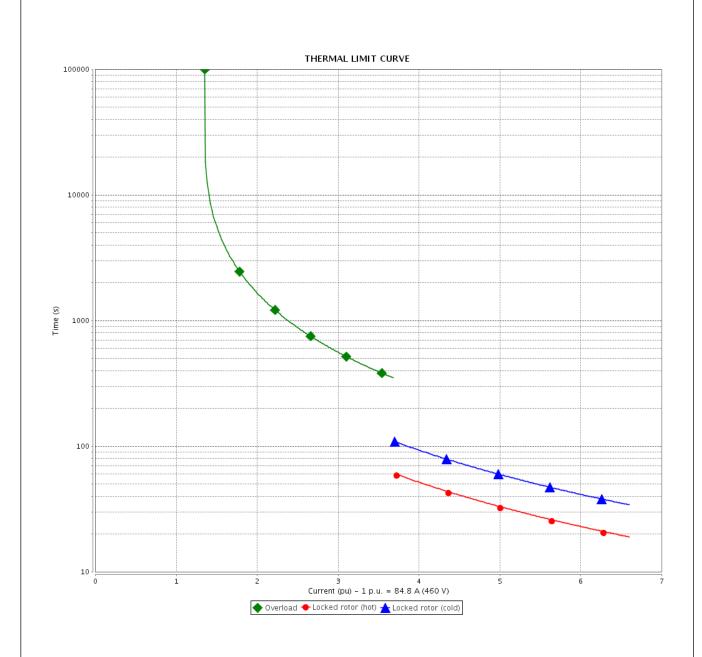
Customer		:				
Dun do at line		· WAO ID Down NEMA Draw		Design of the second of the se	44000700	
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase	iium	Product code :	14836796	
				Catalog # :	07536OT3E3	64JPV-W40
Performance	:	230/460 V 60 Hz 2P				
Rated current	:	170/84.8 A	Moment o	of inertia (J)	: 6.40 sq.ft.lb	
LRC		6.6	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torc		111 ft.lb 200 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ie :	250 %	Temperati		: 80 K	
Rated speed		3555 rpm	Design		: B	
Heating constant	<u> </u>					
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	10/04/2020				4 / 6	1.00101011

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 :

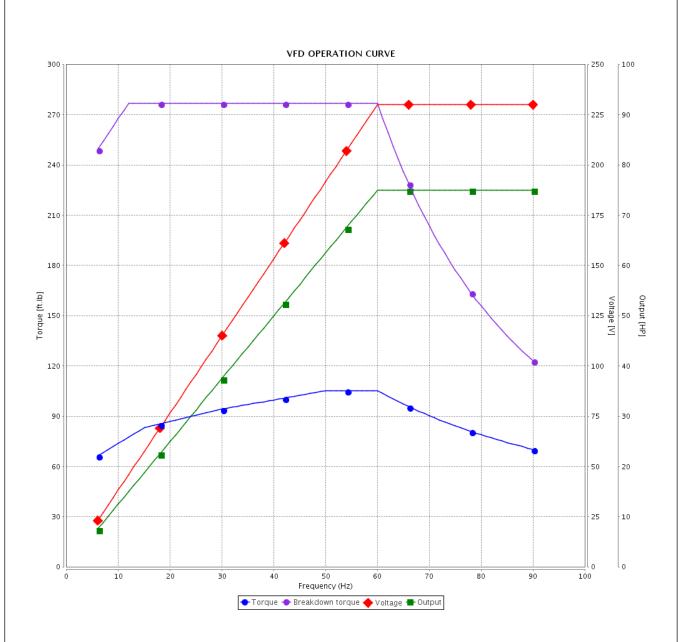
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836796

Catalog #: 07536OT3E364JPV-W40

6/6



Danfanna	- 0:	20/400 \/ 00 - 0D	<u> </u>				
Performance	: 2	30/460 V 60 Hz 2P					
Rated current		1		Moment of inertia (J)			
LRC	: 6	· ·	Duty cycle		: Cont.(S1)		
Rated torque	: 1	11 ft.lb	Insulation	class	: F		
Locked rotor torq	ue : 2	00 %	Service fa	ctor	: 1.25		
Breakdown torqu	e : 2	50 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 3	555 rpm	Design		: B		
Rev.		Changes Summar	ry	Performed	Checked	Date	
		_					
Performed by							
Checked by					Page	Revision	

10/04/2020

Date

