DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836796

07536OT3E364JPV-W40 Catalog #:

Frame : 364/5JP Cooling method

Insulation class

Duty cycle : Cont.(S1) : -20°C to +40°C Ambient temperature : 1000 m.a.s.l. Altitude

Protection degree : IP23

: IC01 - ODP Mounting : W-6

Rotation¹ : Both (CW and CCW)

Starting method : Direct On Line

Approx. weight³ : 693 lb : 6.40 sq.ft.lb Moment of inertia (J)

Protection degree		: IP23 : B	Moment of ine	Moment of Inertia (J) : 6.40 sq.π.ib		
Design		. D				
Output [HP]		75	60	60	60	
Poles		2	2	2	2	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		230/460	380	400	415	
Rated current [A]		170/84.8	82.7	79.4	78.4	
L. R. Amperes [A]		1119/560	579	588	588	
LRC [A]		6.6x(Code G)	7.0x(Code H)	7.4x(Code H)	7.5x(Code H)	
No load current [A]	43.0/21.5	20.7	22.7	25.0	
Rated speed [RPI	<i>/</i> 1]	3555	2955	2963	2965	
Slip [%]	Slip [%]		1.50	1.23	1.17	
Rated torque [ft.lb]		111	107	106	106	
Locked rotor torqu	Locked rotor torque [%]		190	220	220	
Breakdown torque	[%]	250	229	250	280	
Service factor		1.25	1.00	1.00	1.00	
Temperature rise		80 K	80 K	80 K	80 K	
Locked rotor time		34s (cold) 19s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	
Noise level ²		84.0 dB(A)				
	25%	91.0	90.5	90.2	89.7	
Efficiency (%)	50%	91.7	91.7	91.4	91.0	
Efficiency (70)	75%	93.0	92.9	92.8	92.7	
100%		93.6	94.0	94.0	94.0	
25%		0.56	0.56	0.51	0.47	
Power Factor	50%	0.77	0.78	0.73	0.69	
I OWEI Facior	75%	0.84	0.85	0.83	0.80	
	100%	0.87	0.88	0.87	0.85	

Drive end Non drive end Foundation loads

Bearing Seal

6314 C3 Bearing type 6212 Z C3 Max. traction : 673 lb Sealing Without Without Max. compression : 1366 lb

Bearing Seal

7209 h 12143 h Lubrication interval Lubricant amount 13 g

Mobil Polyrex EM Lubricant type

Notes

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.

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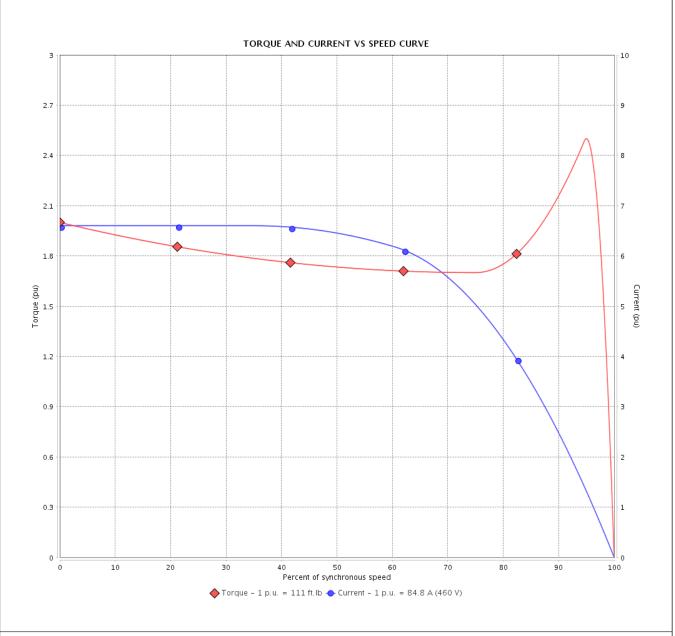
Customer :

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) 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)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 JP Pump NEMA Premium Product code: 14836796 Efficiency Three-Phase Catalog #: 07536OT3E364JPV-W40 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 107 ft.lb ◆ Current - 1 p.u. = 82.7 A (380 V)

Performance : 380 V 50 Hz 2P IE3 Rated current : 82.7 A Moment of inertia (J) : 6.40 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 107 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2955 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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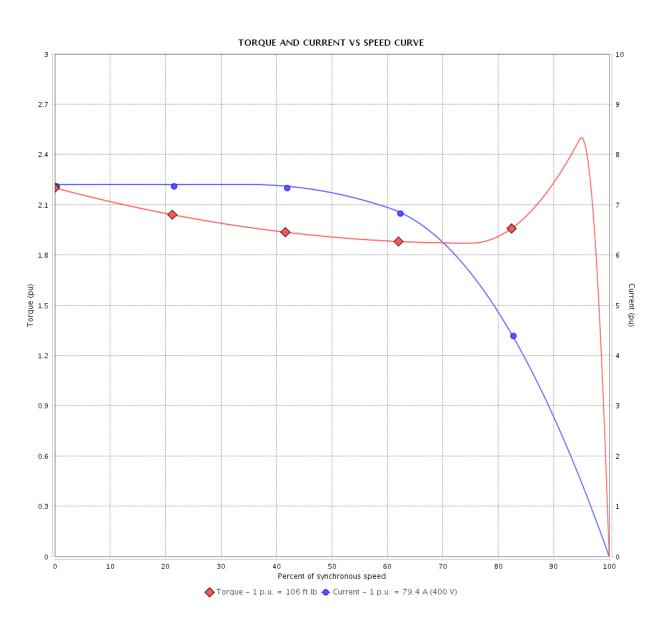
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836796

Catalog #: 07536OT3E364JPV-W40



Performance : 400 V 50 Hz 2P IE3 Rated current : 79.4 A Moment of inertia (J) : 6.40 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 106 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2963 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 JP Pump NEMA Premium Product code: 14836796 Efficiency Three-Phase Catalog #: 07536OT3E364JPV-W40 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 106 ft.lb ◆ Current - 1 p.u. = 78.4 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 78.4 A Moment of inertia (J) : 6.40 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 106 ft.lb : F : 220 % Locked rotor torque Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Date Performed Checked Rev. **Changes Summary**

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Date

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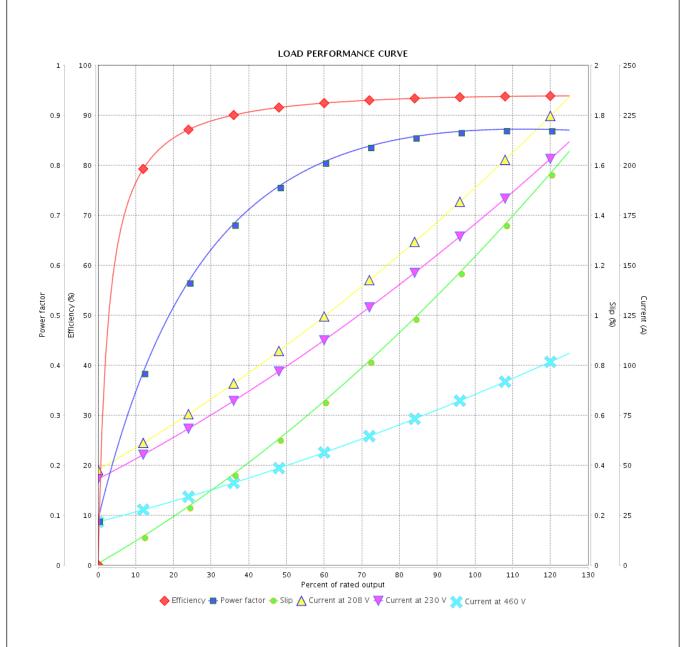
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Efficiency Three-Phase

Product code: 14836796

Catalog # : 07536OT3E364JPV-W40

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Performance : 230/460 V 60 Hz 2P : 170/84.8 A Rated current Moment of inertia (J) : 6.40 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 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 Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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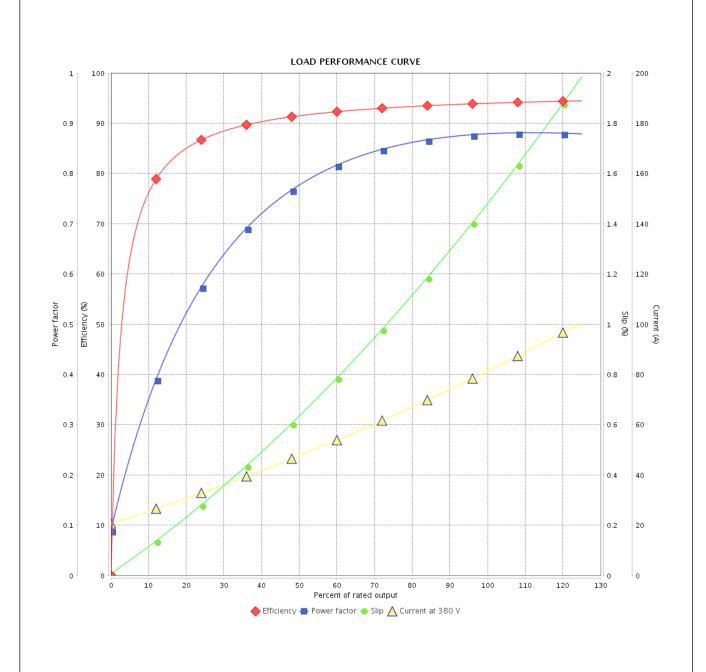
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836796

Catalog #: 07536OT3E364JPV-W40



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	: 8:	2.7 A	Moment of	f inertia (J)	: 6.40 sq.ft.lb	
LRC	: 7	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	07 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	90 %	Service fa	ctor	: 1.00	
Breakdown torque ::		29 %	Temperati	Temperature rise		
Rated speed	: 2	955 rpm	Design		: B	
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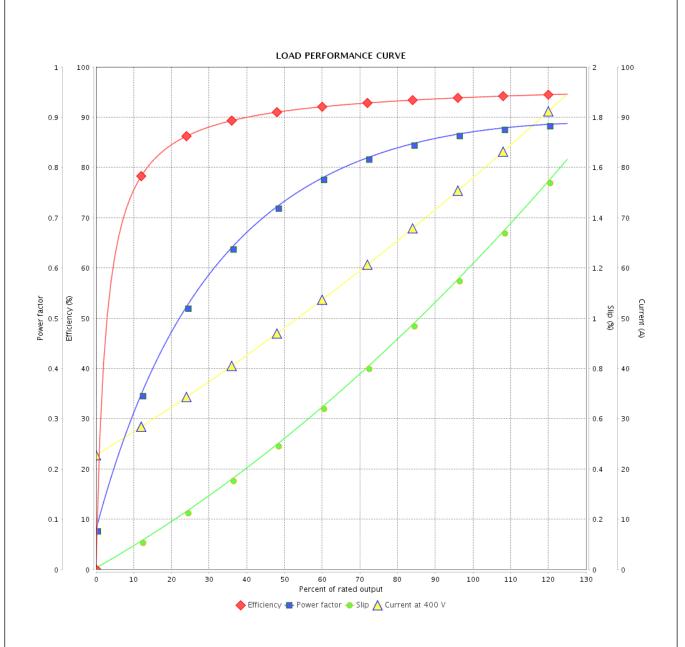
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836796

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 79.4 A : 7.4 : 106 ft.lb : 220 % : 250 % : 2963 rpm	Moment of inertia (J) : 6.40 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B			
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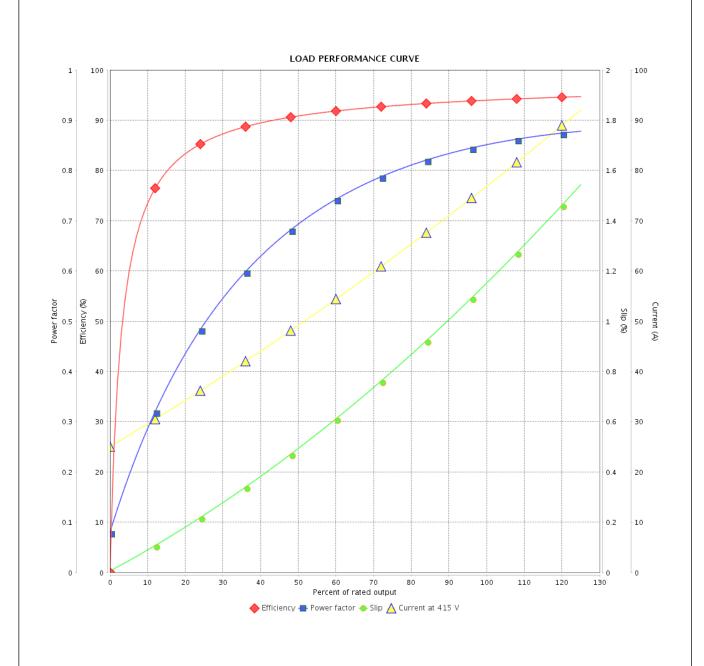
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836796

Catalog #: 07536OT3E364JPV-W40



Performance		115 V 50 Hz 2P IE3				
Rated current	: 7	78.4 A	Moment o	f inertia (J)	: 6.40 sq.ft.lb	
LRC : 7		7.5	Duty cycle)	: Cont.(S1)	
Rated torque :		106 ft.lb	Insulation	class	: F	
Locked rotor torque :		220 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	280 %	Temperati	Temperature rise		
Rated speed	: 2	: 2965 rpm De			: B	
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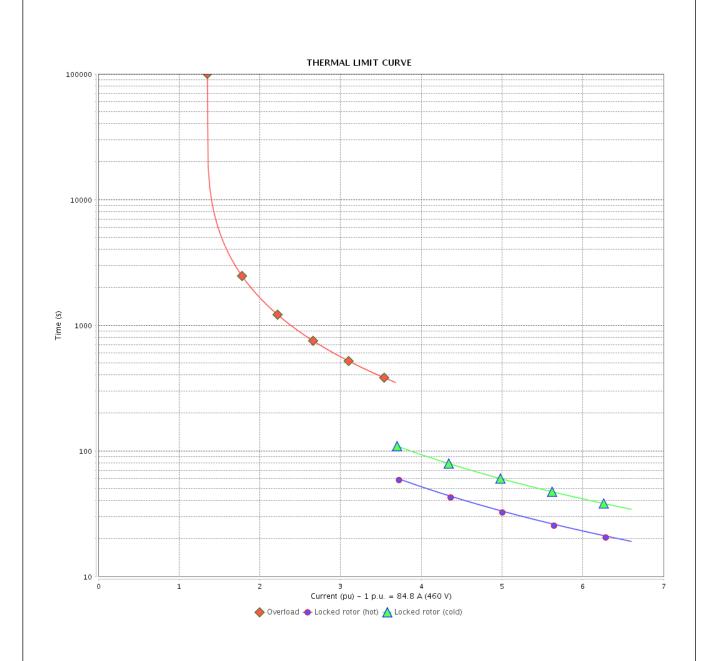


Customer	:					
Product line	: \ E1	N40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14836796 07536OT3E36	64JPV-W40
Performance		30/460 V 60 Hz 2P				
Rated current LRC	: 6.		Moment of Duty cycle		: 6.40 sq.ft.lb : Cont.(S1)	
Rated torque		11 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		00 % 50 %	Service fac Temperatu		: 1.25 : 80 K	
Rated speed		555 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summani		Performed	Checked	Date
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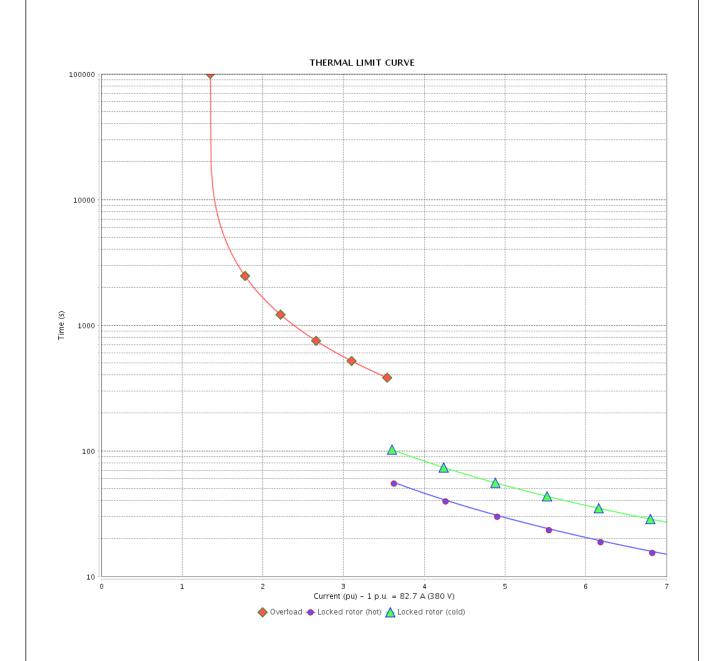


Customer	:			
Product line	: W40 JP Pump NEMA Premi Efficiency Three-Phase	um Product code :	14836796	
		Catalog #:	07536OT3E3	864JPV-W40
Performance	: 380 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.0 : 107 ft.lb : 190 % : 229 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 6.40 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Heating constant Cooling constant				
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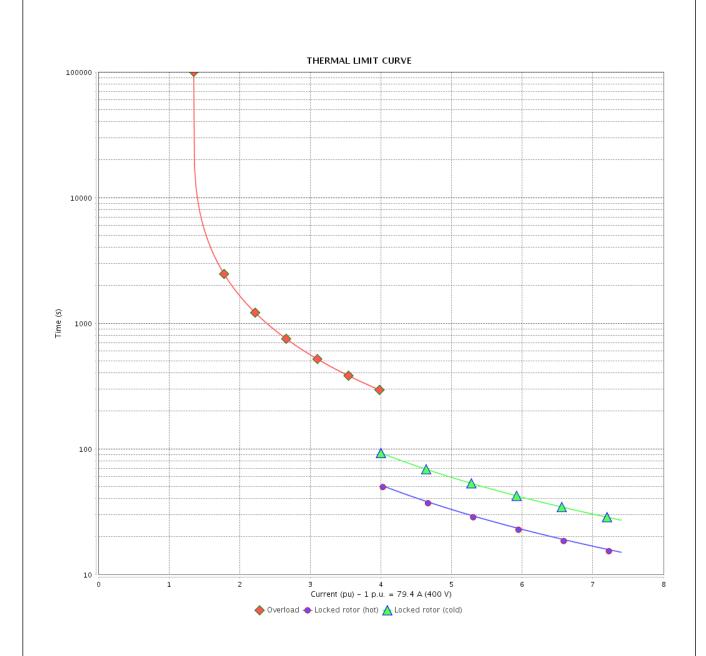


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14836796 07536OT3E36	64JPV-W40
Performance		400 V 50 Hz 2P IE3				
Rated current LRC	:	79.4 A 7.4	Duty cycle		: 6.40 sq.ft.lb : Cont.(S1)	
Rated torque		106 ft.lb 220 %	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqu		250 % 250 %	Temperati		: 1.00 : 80 K	
Rated speed		2963 rpm	Design		: B	
Heating constant Cooling constant						
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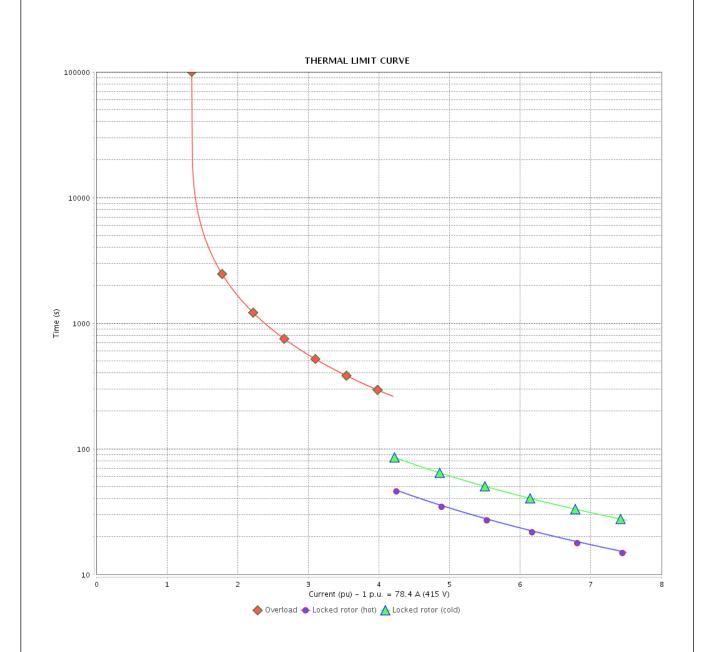


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14836796 07536OT3E3	64JPV-W40
Performance	:	: 415 V 50 Hz 2P IE3				
Rated current LRC		: 78.4 A : 7.5	Moment of Duty cycle	of inertia (J)	: 6.40 sq.ft.lb : Cont.(S1)	
Rated torque	:	: 106 ft.lb : 220 %	Insulation Service fa	class	: F : 1.00	
Locked rotor tord Breakdown torqu	ue :	: 280 %	Temperati		: 80 K	
Rated speed		: 2965 rpm	Design		: B	
Heating constan						
Cooling constant	T.	Changes Summary		Performed	Checked	Date
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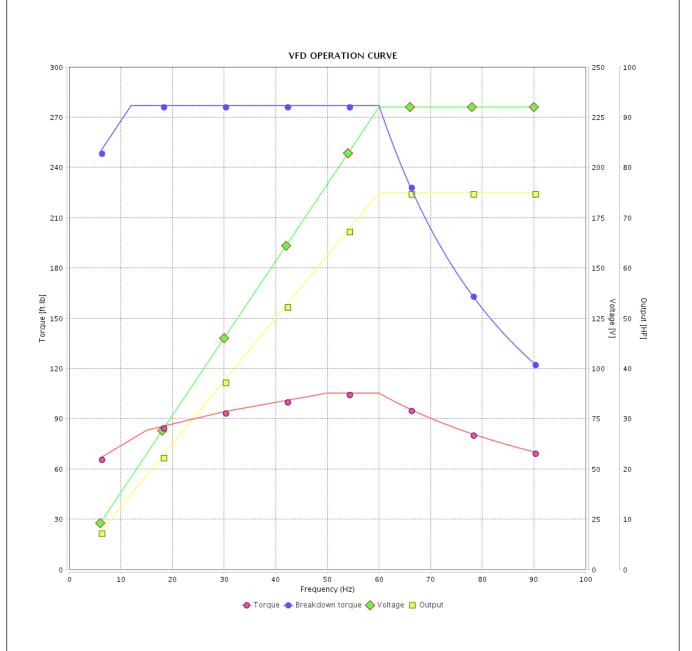
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836796

Catalog #: 07536OT3E364JPV-W40

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Performance : 230/460 V 60 Hz 2P : 170/84.8 A Rated current Moment of inertia (J) : 6.40 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 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 Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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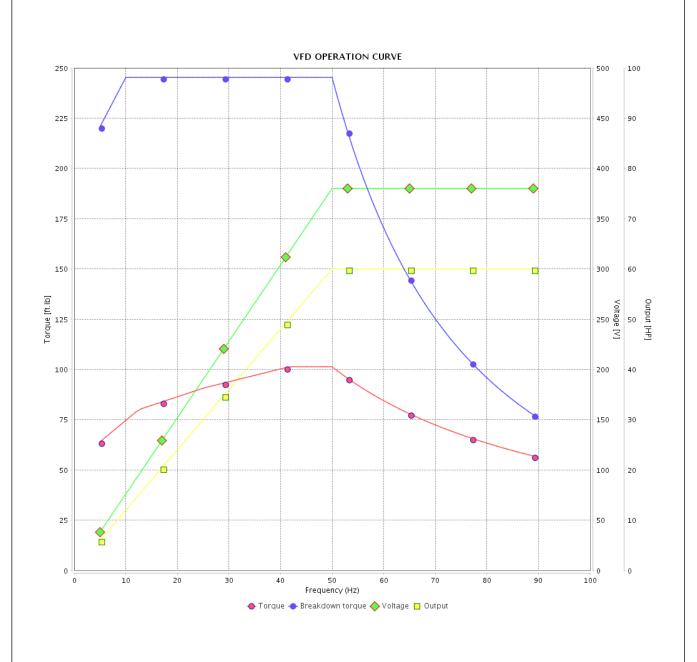
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Product code: 14836796

Catalog #: 07536OT3E364JPV-W40



Performance	: 3	380 V 50 Hz 2P IE3				
Rated current		32.7 A	A Moment of inertia (J)		: 6.40 sq.ft.lb	
LRC	: 7	7.0	Duty cycle	Duty cycle		
Rated torque	: 1	107 ft.lb	Insulation	Insulation class		
Locked rotor torqu	ue : 1	190 %	Service fa	Service factor		
Breakdown torque		229 %	Temperati	Temperature rise		
Rated speed		2955 rpm	Design	Design		
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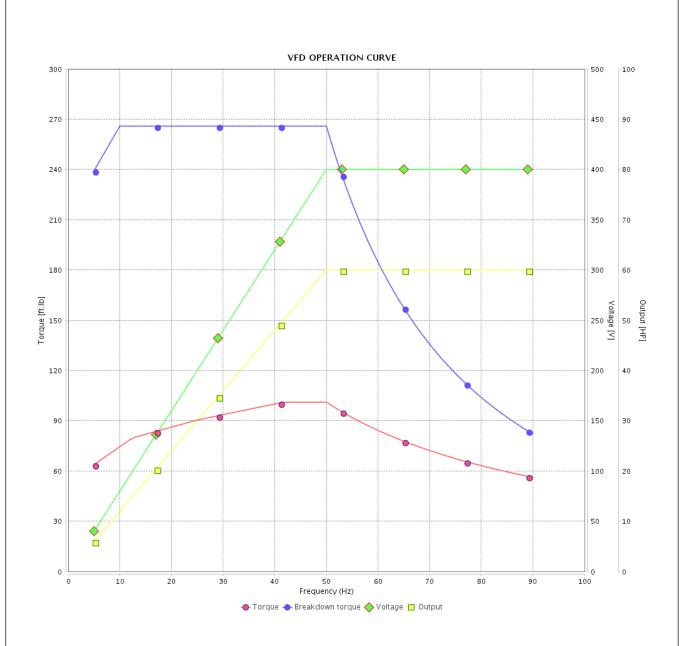
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Performance : 400 V 50 Hz 2P IE3 : 79.4 A Rated current Moment of inertia (J) : 6.40 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 106 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2963 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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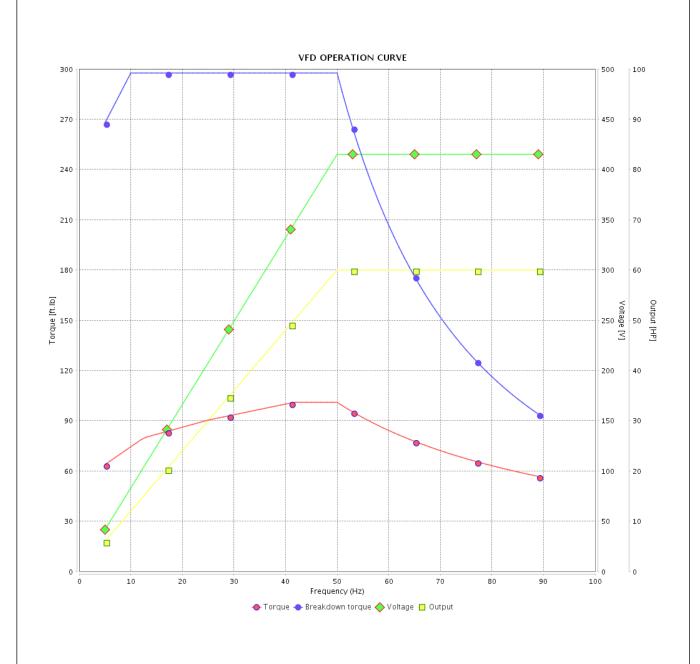
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Efficiency Three-Phase

Product code: 14836796

Catalog #: 07536OT3E364JPV-W40

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Performance	: 415 V 50 Hz 2P IE3				
Rated current	: 78.4 A	Moment of ine	rtia (J)	: 6.40 sq.ft.lb	
LRC	: 7.5	Duty cycle		: Cont.(S1)	
Rated torque	: 106 ft.lb	Insulation class		: F	
Locked rotor torque	: 220 %	Service factor		: 1.00	
Breakdown torque	: 280 %	Temperature rise		: 80 K	
Rated speed	: 2965 rpm	Design		: B	
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