DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270427

Catalog #: 07536OT3E364JP-W40

Frame : 364/5JP Cooling method : IC01 - ODP

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

: -20°C to +40°C Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ Altitude : 745 lb : IP23 Protection degree Moment of inertia (J) : 6.40 sq.ft.lb

Design		: B			
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	Л]	3555	2955	2963	2965
Slip [%]		1.25	1.50	1.23	1.17
Rated torque [ft.lb]		111	107	106	106
Locked rotor torque [%]		200	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 (0/)	50%	91.7	91.7	91.4	91.0
Efficiency (%)	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
FOWEI FACIOI	75%	0.84	0.85	0.83	0.80
	100%	0.87	0.88	0.87	0.85

Non drive end **Drive** end Foundation loads

Bearing type 6314 C3 6212 Z C3 Max. traction : 647 lb Without Sealing Without Max. compression : 1392 lb

Bearing Seal Bearing Seal 20000 h Lubrication interval 14418 h

13 g Lubricant amount 27 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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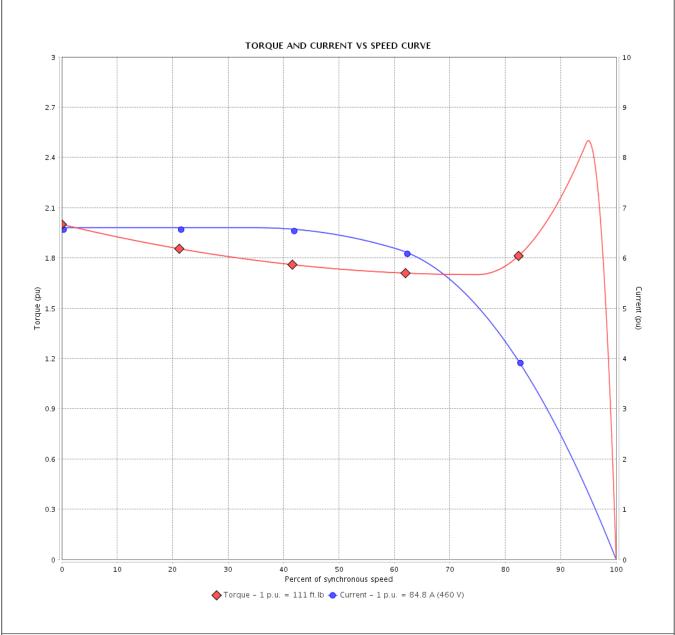
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270427

Catalog #: 07536OT3E364JP-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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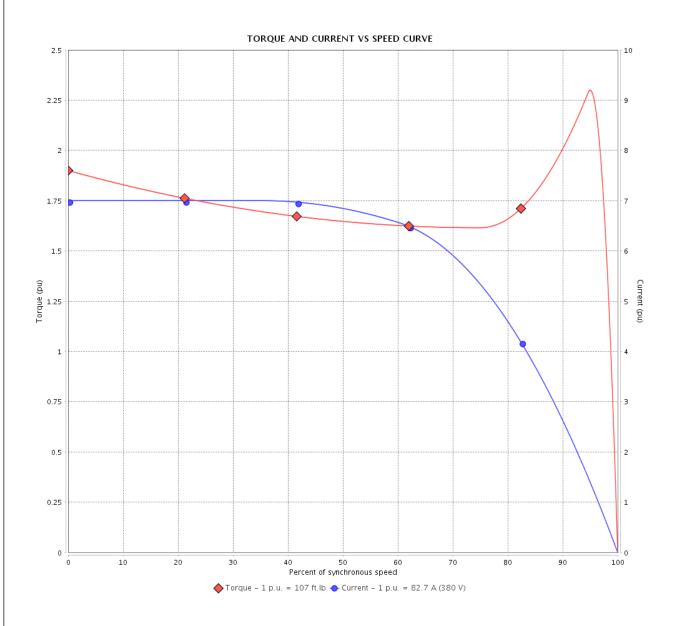
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270427

Catalog #: 07536OT3E364JP-W40



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)	
Rated torque	: 107 ft.lb	Insulation class	: 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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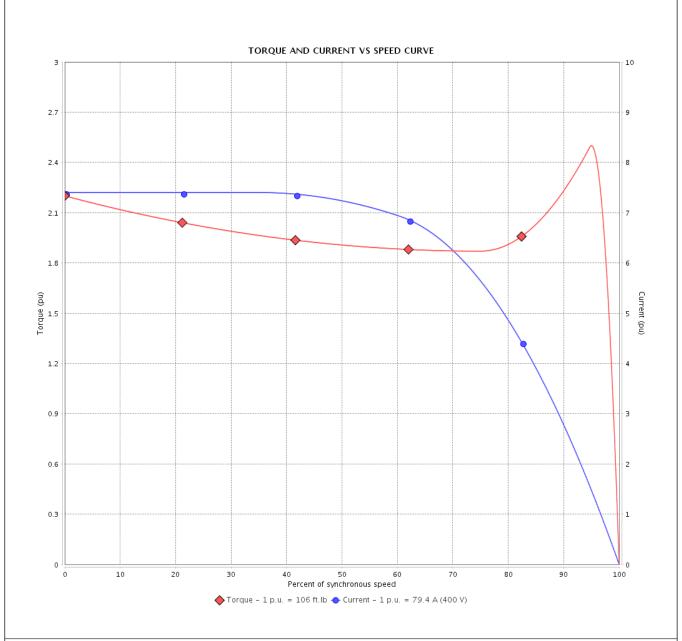
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270427

Catalog #: 07536OT3E364JP-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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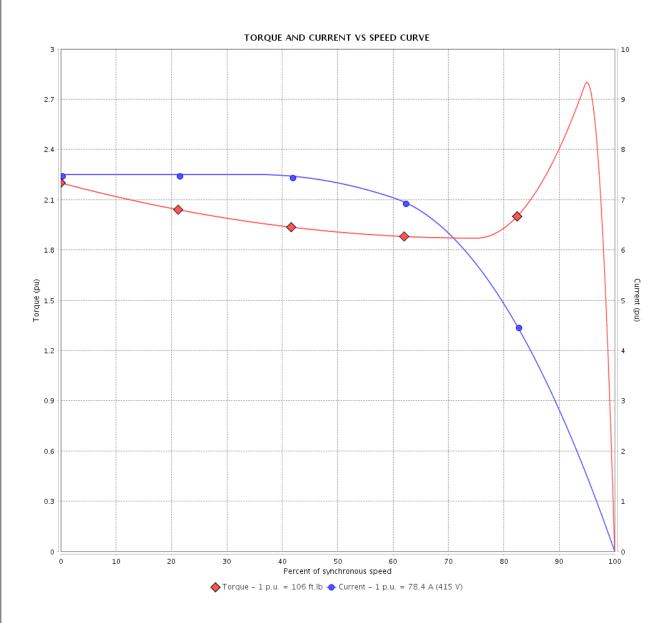
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270427

Catalog #: 07536OT3E364JP-W40



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

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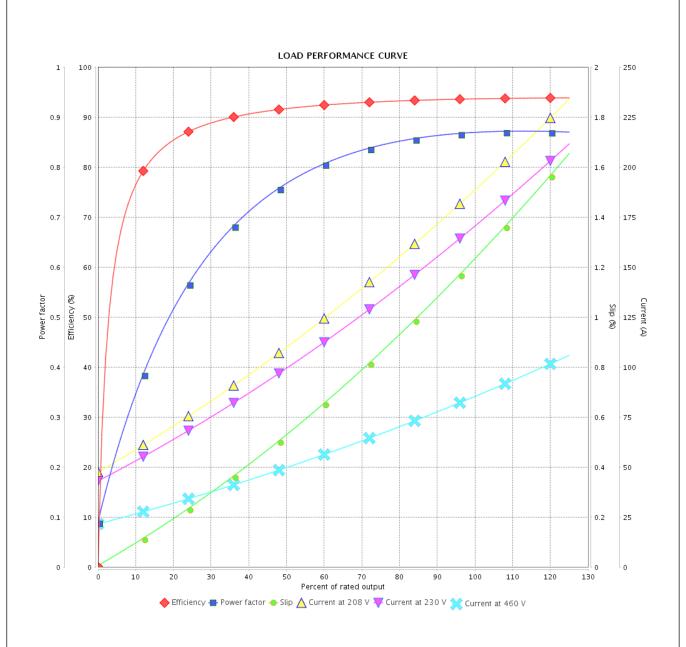
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270427

Catalog #: 07536OT3E364JP-W40



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

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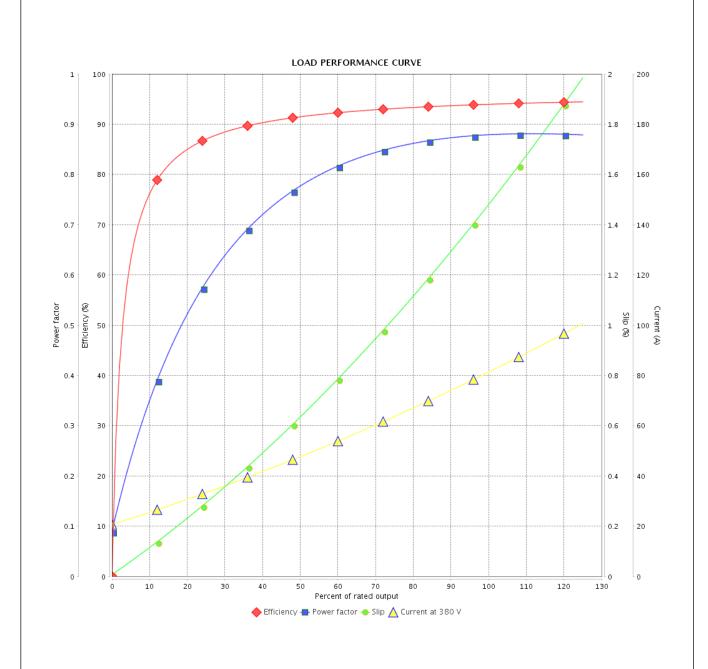
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270427

Catalog # : 07536OT3E364JP-W40



Performance	::	380 V 50 Hz 2P IE3				
Rated current	: :	82.7 A	Moment o	f inertia (J)	: 6.40 sq.ft.lb	
LRC	: '	7.0	Duty cycle	;	: Cont.(S1)	
Rated torque	:	107 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie :	190 %	Service fa	ctor	: 1.00	
Breakdown torque	e ::	229 %	9 % Temperature rise		: 80 K	
Rated speed	::	2955 rpm	Design		: B	
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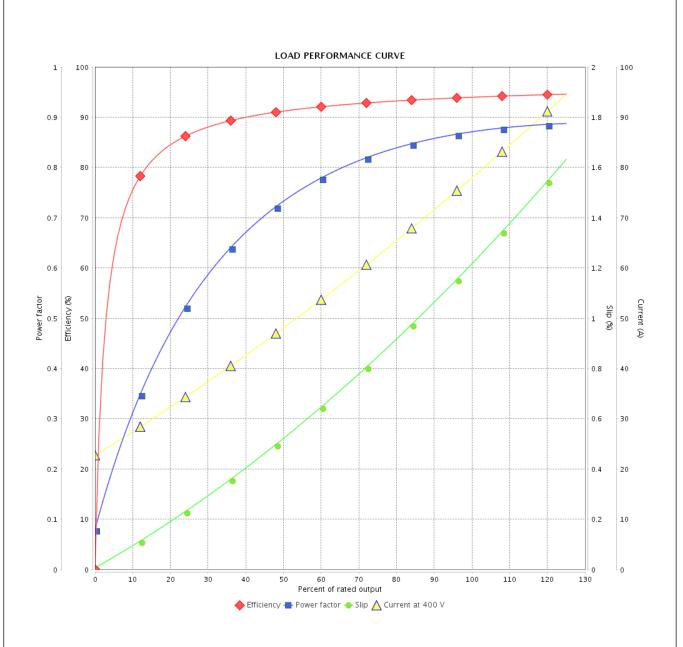
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Efficiency Three-Phase

Product code: 14270427

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Performance	: 400 V 50 Hz 2P IE3	: 400 V 50 Hz 2P IE3								
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 7.4 : 106 ft.lb Ins : 220 % Set		f inertia (J) e class ctor ure rise	: 6.40 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K						
Rated speed	: 2963 rpm	Design		: B						
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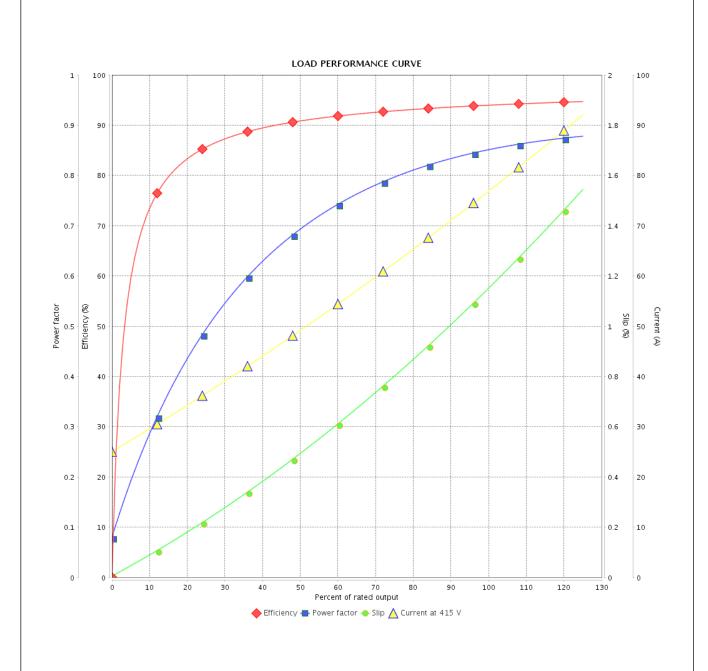
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270427

Catalog #: 07536OT3E364JP-W40



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 7	8.4 A	Moment o	f inertia (J)	: 6.40 sq.ft.lb	
LRC	: 7	.5	Duty cycle	9	: Cont.(S1)	
Rated torque	: 1	06 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	20 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	: 280 % Temperature		ıre rise : 80 K		
Rated speed	: 2	965 rpm	Design		: B	
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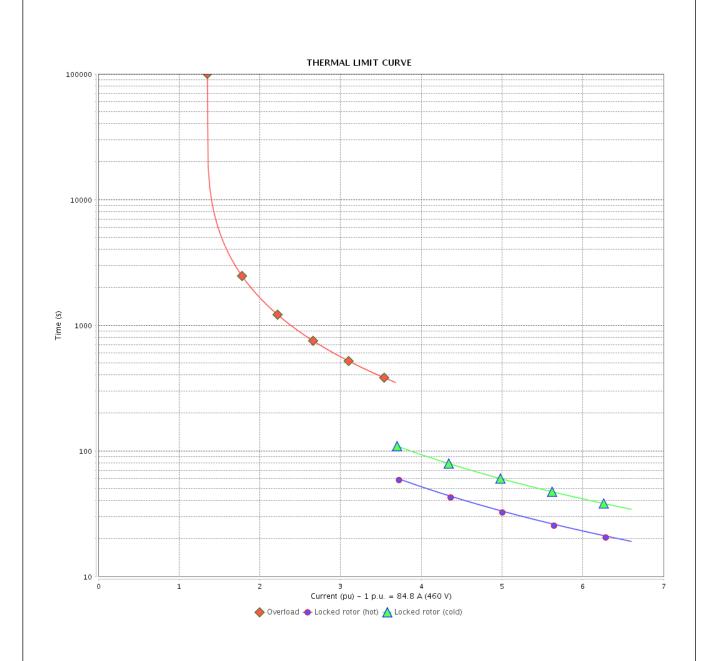


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Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14270427 07536OT3E36	24 ID W/40
					07000010E00	, IOI VVTO
Performance	:	230/460 V 60 Hz 2P				
Rated current		170/84.8 A	Moment o	of inertia (J)	: 6.40 sq.ft.lb	
LRC Rated torque		6.6 111 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	200 %	Service fa	ictor	: 1.25	
Breakdown torqu Rated speed		250 % 3555 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant		·				
Cooling constant						
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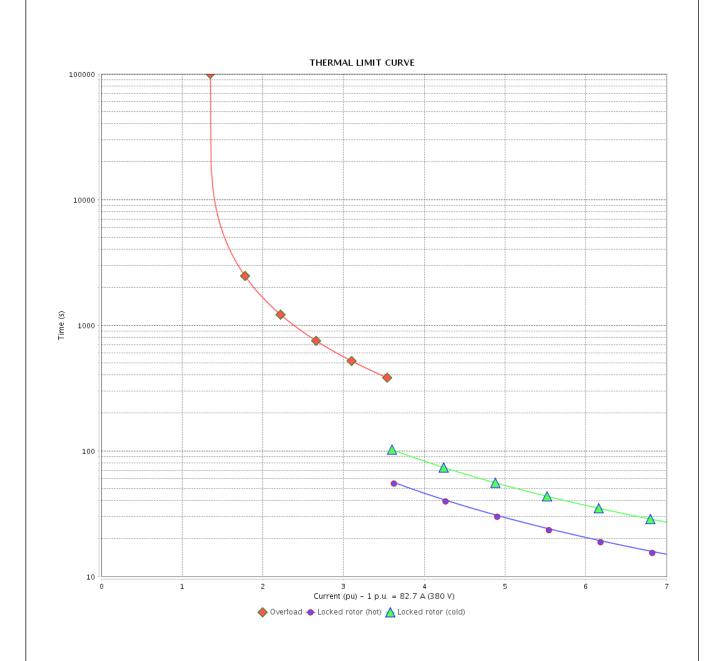


Customer	:					
Product line	: ' E	W40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14270427 07536OT3E36	64JP-W40
Performance	: 3	80 V 50 Hz 2P IE3				
Rated current LRC	: 7		Moment of Duty cycle		: 6.40 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		07 ft.lb 90 %	Insulation Service fac		: F : 1.00	
Breakdown torqı Rated speed	ie : 2	29 % 955 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant						
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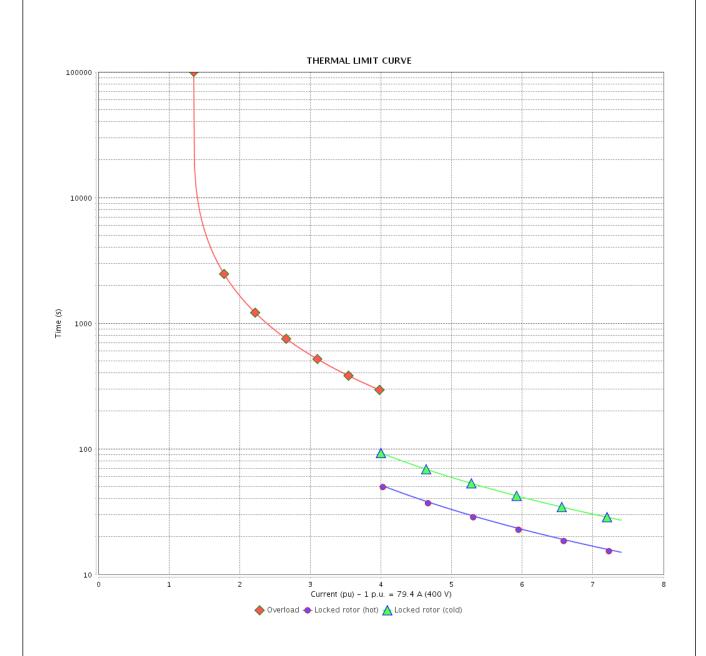


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Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code :	14270427	2410.2
				Catalog # :	07536OT3E36	J-TUI - V V T U
Performance		: 400 V 50 Hz 2P IE3	I			
Rated current LRC		: 79.4 A : 7.4	Moment of Duty cycle	of inertia (J)	: 6.40 sq.ft.lb : Cont.(S1)	
Rated torque	:	: 106 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 220 % : 250 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		: 2963 rpm	Design		: B	
Heating constan					-	
Cooling constant	t	Change Comm		Dorf	Ohl l	D-4-
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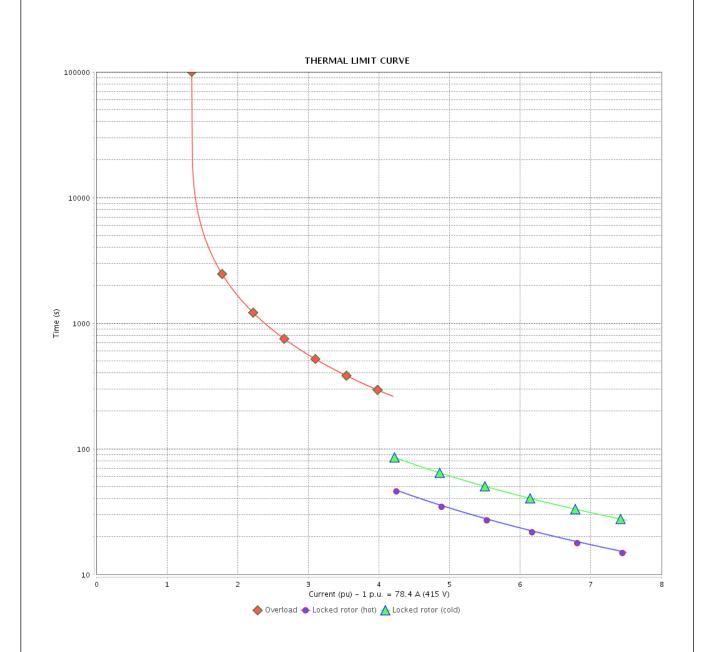


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14270427 07536OT3E36	64JP-W40
Performance	:	415 V 50 Hz 2P IE3				
Rated current LRC	:	78.4 A 7.5	Duty cycle		: 6.40 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		106 ft.lb 220 %	Insulation Service fa		: F : 1.00	
Breakdown torqu Rated speed	ie :	280 % 2965 rpm	Temperatu Design		: 80 K : B	
Heating constant						
Cooling constant Rev.	ι 	Changes Summary		Performed	Checked	Date
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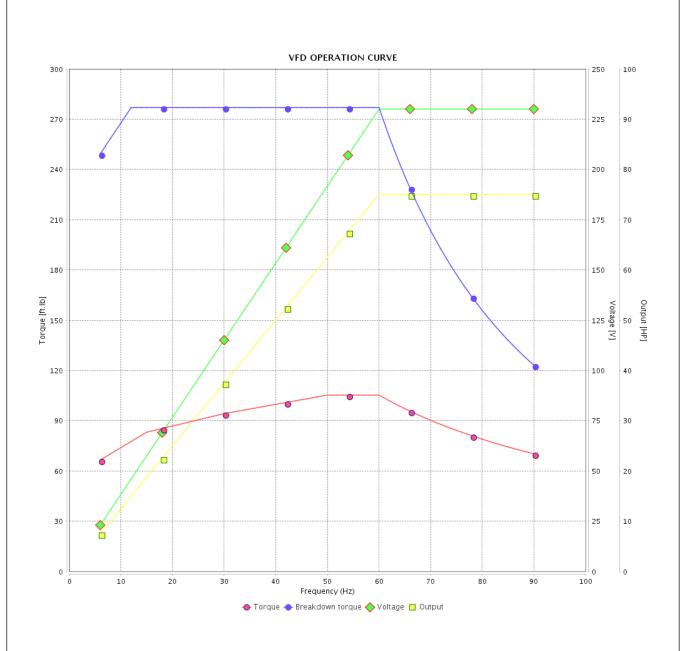
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270427

Catalog #: 07536OT3E364JP-W40



Performance	: 230/460 V 60 Hz 2F	P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 6.40 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



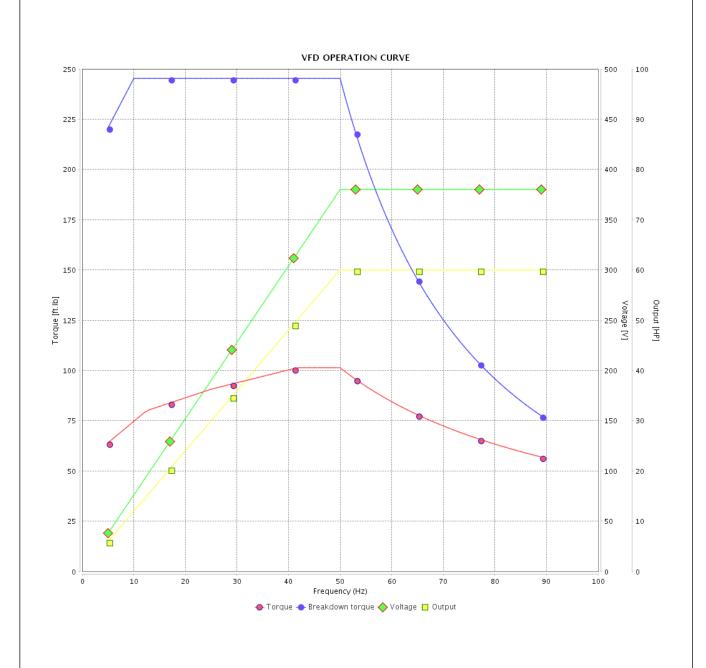
Customer

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Product code: 14270427

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Performance	: 3	80 V 50 Hz 2P IE3				
Rated current : 82.7 A		Moment o	Moment of inertia (J)			
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	ure rise	: 80 K	
Rated speed	: 2	955 rpm	Design		: B	
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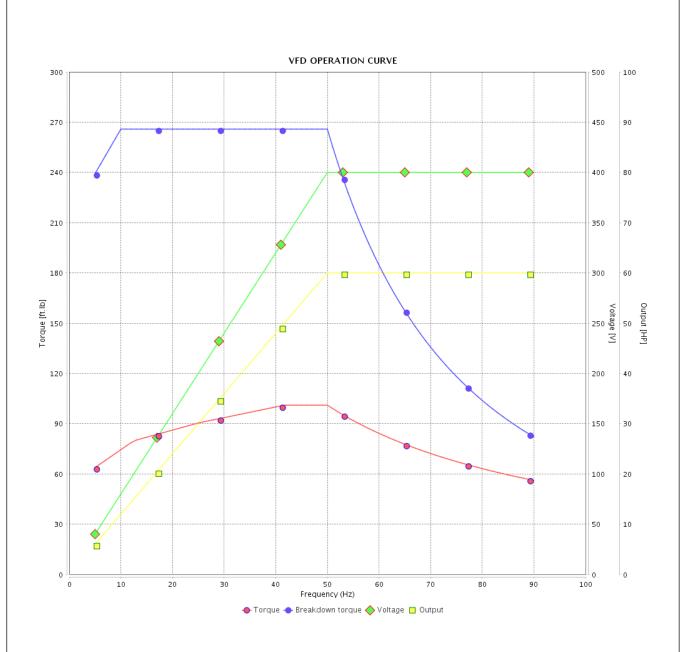
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Performance : 400 V 50 Hz 2P IE3 : 79.4 A Rated current Moment of inertia (J) : 6.40 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 106 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2963 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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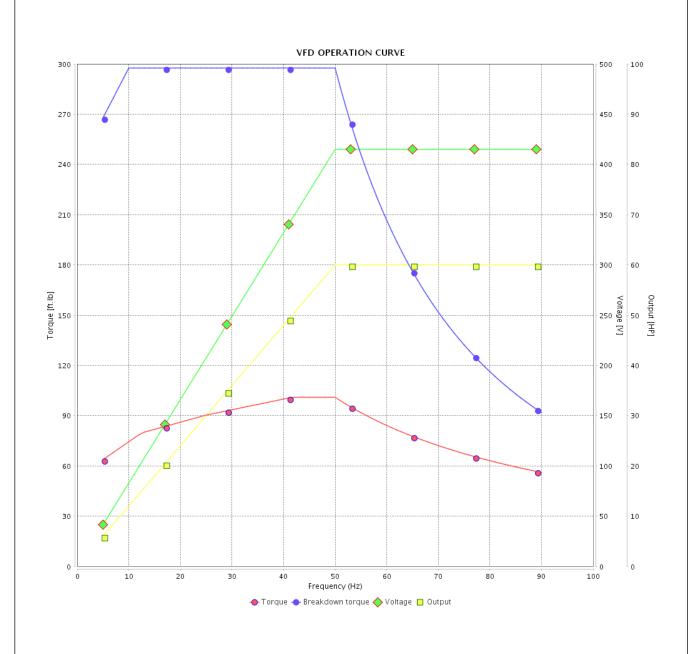
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Performance	: 415 V 50 Hz 2P IE3				
Rated current	: 78.4 A	Moment of inertia (J)		: 6.40 sq.ft.lb	
LRC	: 7.5	Duty cycle)	: Cont.(S1)	
Rated torque	: 106 ft.lb	Insulation	ation class : F		
Locked rotor torque	: 220 %	Service factor		: 1.00	
Breakdown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