DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269584

Catalog #: 07536OT3E364JM-W40

Frame : 364/5JM

Insulation class

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

: IP23 Protection degree

Cooling method : IC01 - ODP

Mounting : F-1

Rotation¹ : Both (CW and CCW) Starting method : Direct On Line

Approx. weight³ : 741 lb

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	/ 1]	3555	2955	2963	2965
Slip [%]		1.25	1.50	1.23	1.17
Rated torque [ft.lb]	Rated torque [ft.lb]		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
Lilicierity (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
1 OWELL ACTOR	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

6314 C3 Bearing type 6212 Z C3 Max. traction Sealing Without Without Max. compression

> Bearing Seal Bearing Seal 14418 h 20000 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.

: 649 lb

: 1390 lb

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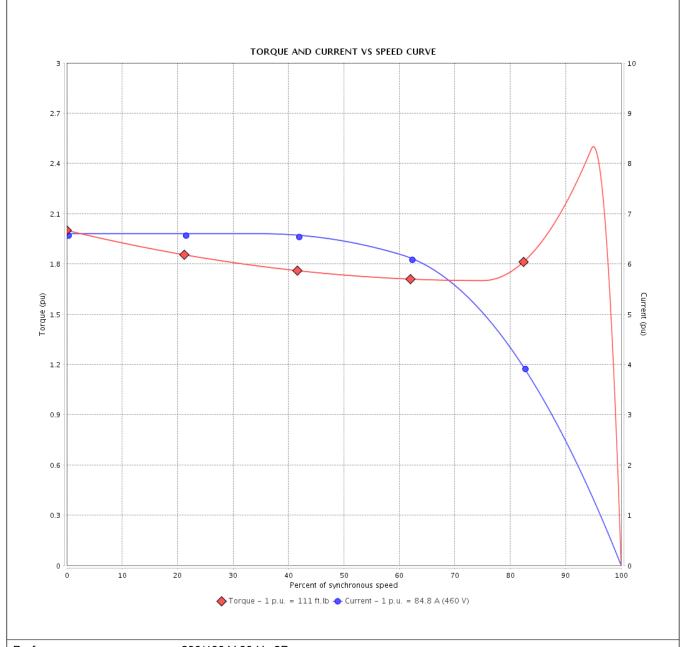
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269584

Catalog #: 07536OT3E364JM-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 : 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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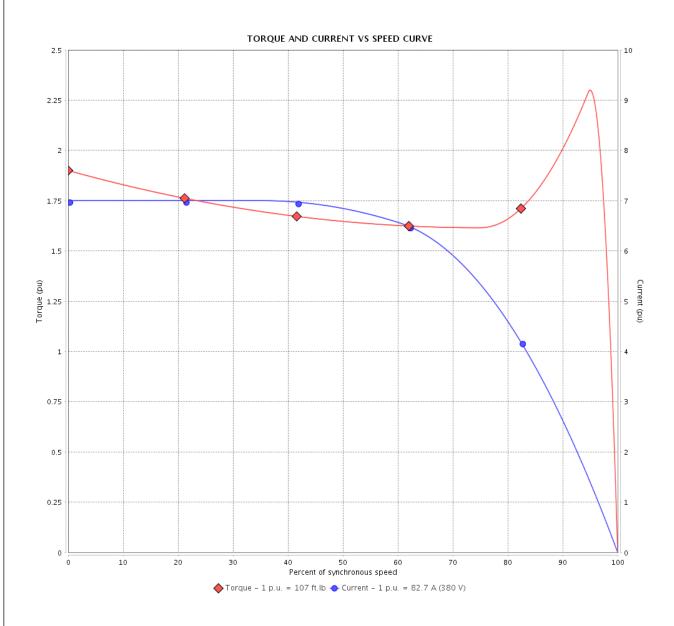
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269584

Catalog #: 07536OT3E364JM-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 (bot)			

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

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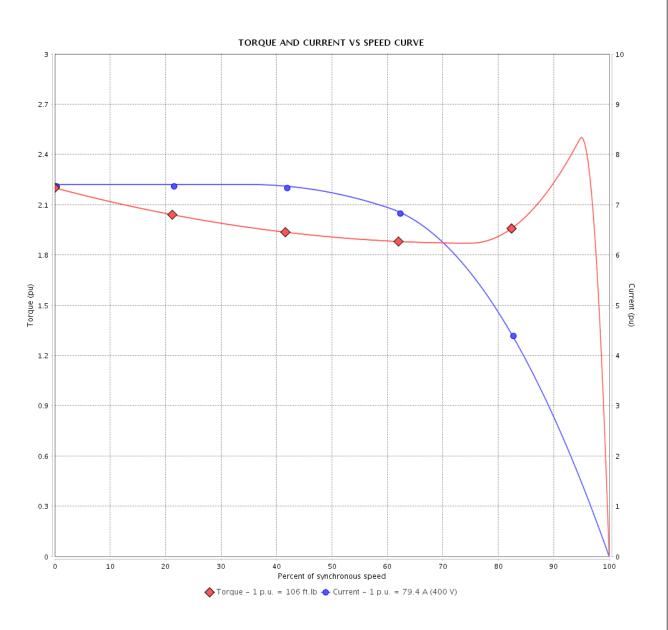
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269584

Catalog #: 07536OT3E364JM-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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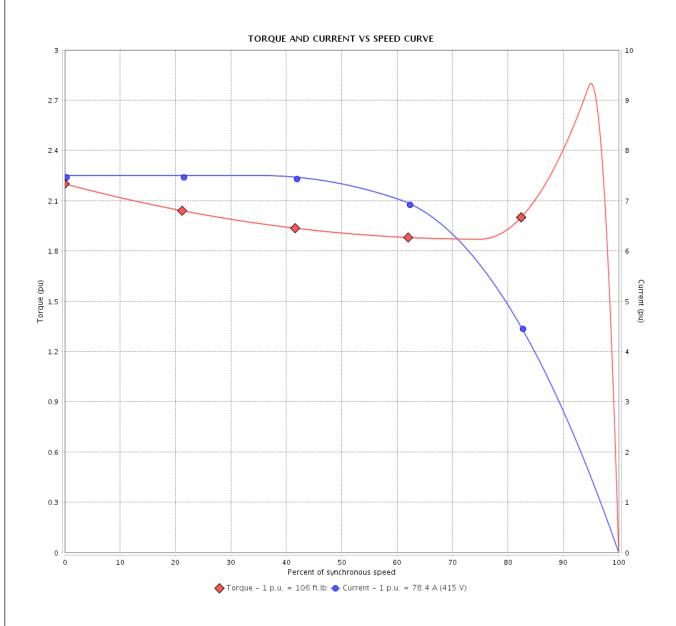
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269584

Catalog #: 07536OT3E364JM-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) : 106 ft.lb Insulation class : F Rated torque : 220 % Locked rotor torque Service factor : 1.00 : 80 K Breakdown torque : 280 % Temperature rise : B Rated speed : 2965 rpm Design

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

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Date

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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

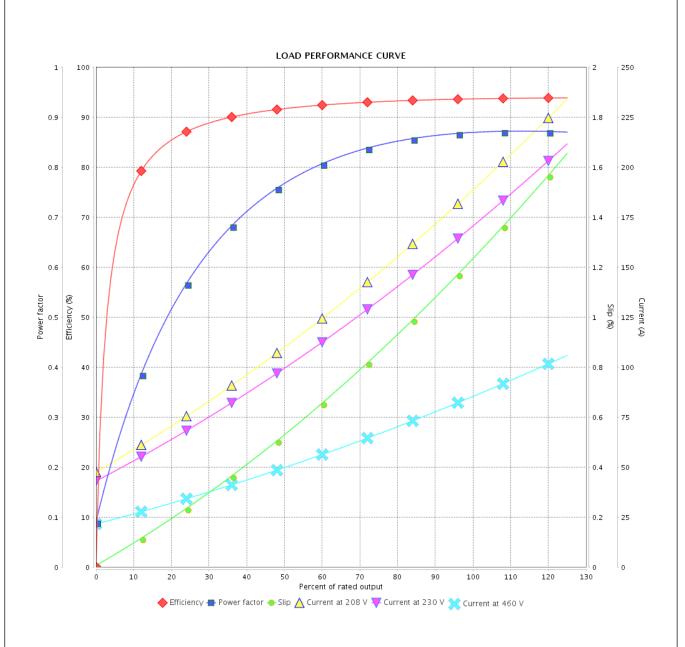
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Performance : 230/460 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.6 : 11 ue : 20 e : 25	: 170/84.8 A Moment of inertia (J) : 6.40 sq.ft.ll : 6.6 Duty cycle : Cont.(S1) : 111 ft.lb Insulation class : F : 200 % Service factor : 1.25 : 250 % Temperature rise : 80 K : 3555 rpm Design : B		: F : 1.25 : 80 K		
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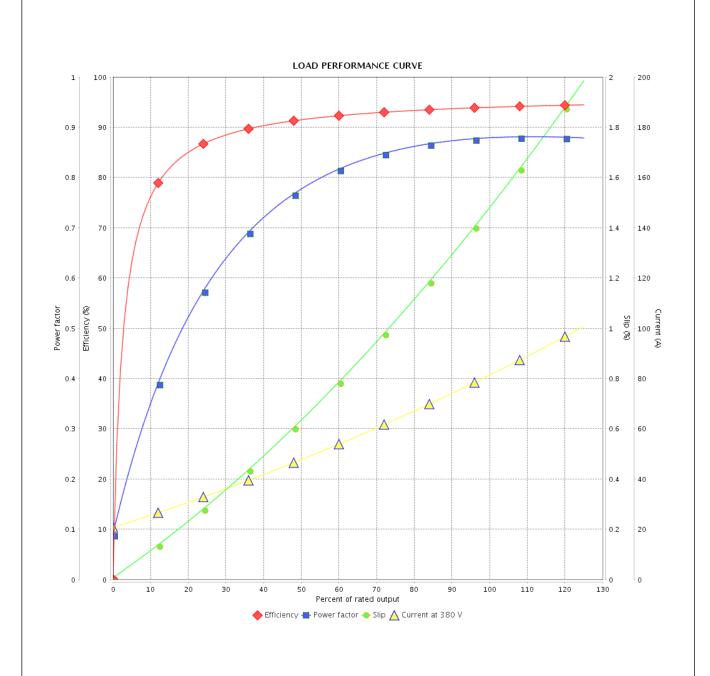
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269584

Catalog #: 07536OT3E364JM-W40



Performance	: 38	30 V 50 Hz 2P IE3				
Rated current	: 82	: 82.7 A		Moment of inertia (J)		
LRC	: 7.	0	Duty cycle	•	: Cont.(S1)	
Rated torque	: 10	07 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 19	90 %	Service fa	ctor	: 1.00	
Breakdown torque	Breakdown torque : 229 %		Temperature rise		: 80 K	
Rated speed	: 29	955 rpm	Design		: B	
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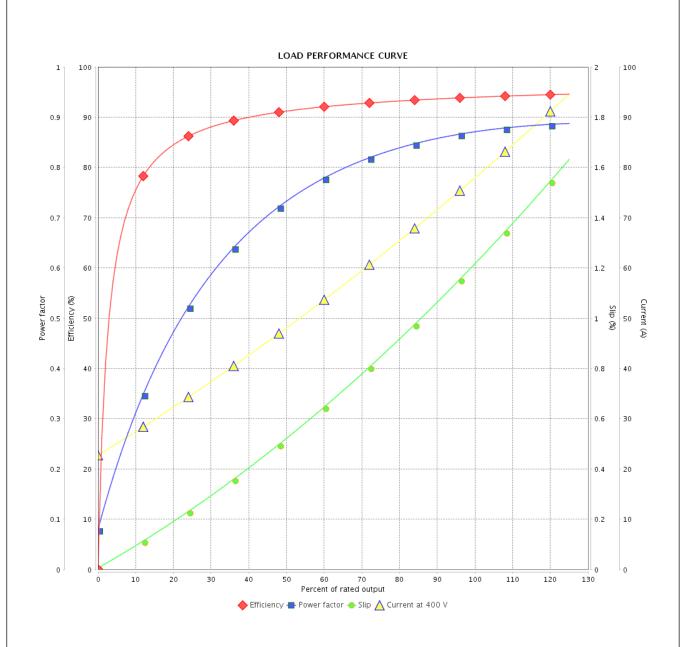
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269584

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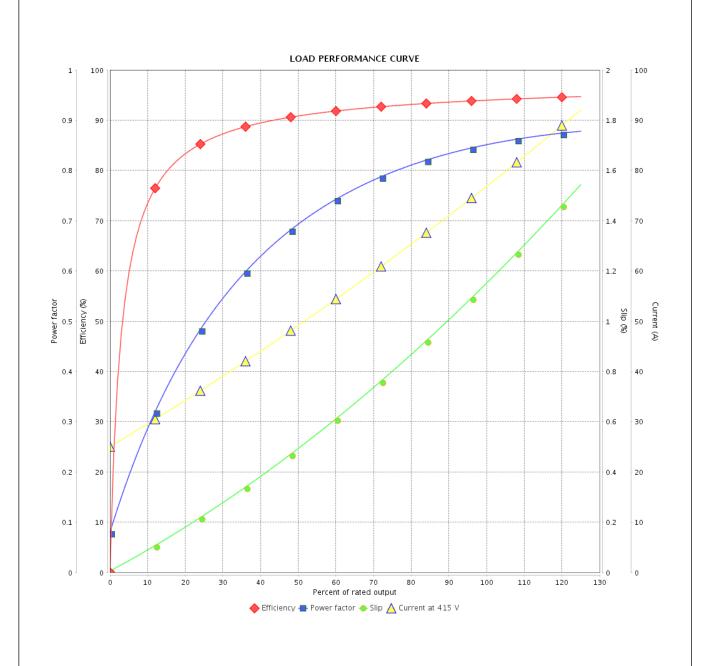
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269584

Catalog #: 07536OT3E364JM-W40



Performance	: 4	415 V 50 Hz 2P IE3				
Rated current : 78.4 A LRC : 7.5 Rated torque : 106 ft.lb Locked rotor torque : 220 %		Duty cycle Insulation	Moment of inertia (J) Duty cycle Insulation class Service factor			
Breakdown torque Rated speed		80 % 965 rpm	P		: 80 K : B	
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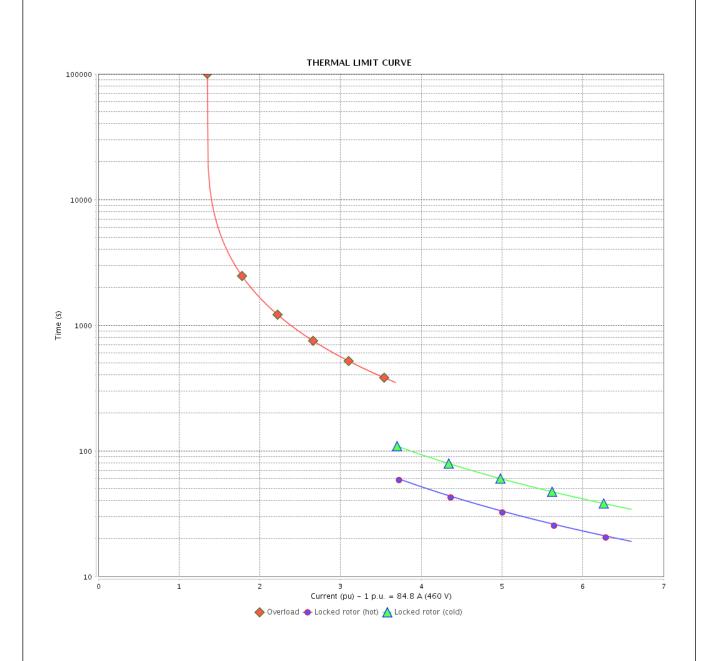


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Product line	: N Ei	W40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14269584 07536OT3E36	64JM-W40
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 17 : 6. : 11 ue : 20 e : 25 : 36	30/460 V 60 Hz 2P 70/84.8 A 6 I1 ft.lb 00 % 50 %	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 6.40 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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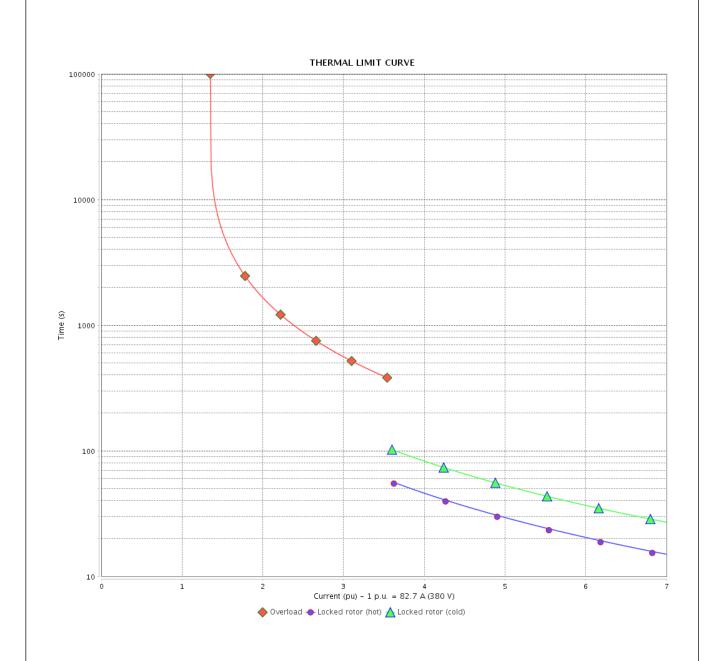


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Product line	: \	N40 JM Pump NEMA Prem	nium	Product code :	14269584	
	Ef	fficiency Three-Phase		Catalog # :	07536OT3E3	64JM-W40
Performance	: 38	30 V 50 Hz 2P IE3				
Rated current		2.7 A	Moment o	f inertia (J)	: 6.40 sq.ft.lb	
LRC Rated torque	: 7. · 10	0)7 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		90 %	Service fa		. r : 1.00	
Breakdown torqu	ie : 22	29 %	Temperatu		: 80 K	
Rated speed	: 29	955 rpm	Design		: B	
Heating constant						
Cooling constant		Change Comme	T	Dorf	Ohl !	D-t-
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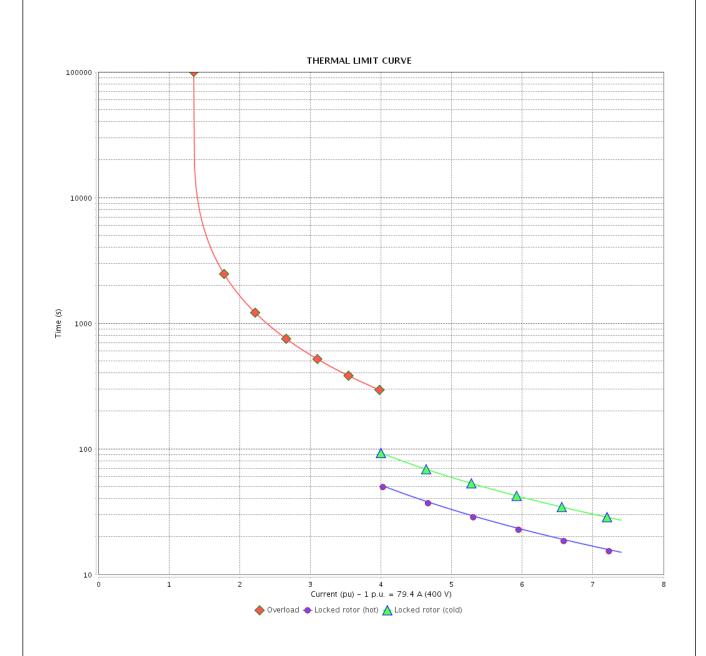


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Product line	: \ Et	N40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14269584 07536OT3E3	64JM-W40
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 79 : 7. : 10 : 22 e : 25	00 V 50 Hz 2P IE3 9.4 A 4 06 ft.lb 20 % 50 % 963 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class	: 6.40 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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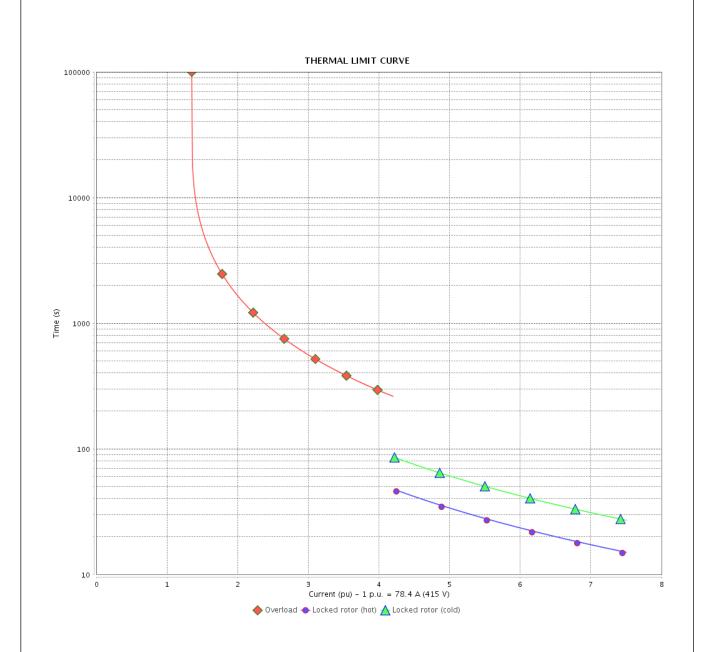


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Product line		: W40 JM Pump NEMA Prer Efficiency Three-Phase	Illulli	Froduct code .	14269584	
		•		Catalog # :	07536OT3E3	64JM-W40
Performance		: 415 V 50 Hz 2P IE3	T			
Rated current LRC		: 78.4 A : 7.5	Moment of Duty cycle	of inertia (J)	: 6.40 sq.ft.lb	
Rated torque		: 7.5 : 106 ft.lb	Insulation		: Cont.(S1) : F	
Locked rotor torc	jue :	: 220 %	Service fa	ictor	: 1.00	
Breakdown torqu Rated speed		: 280 % : 2965 rpm	Temperati Design	ure rise	: 80 K : B	
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Heating constant						
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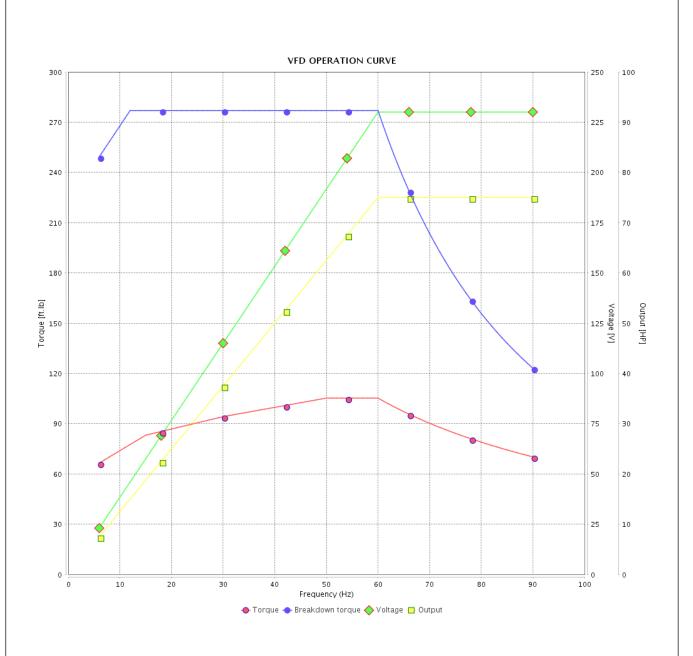
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269584

Catalog #: 07536OT3E364JM-W40

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Performance	: 230/460 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 170/84.8 A : 6.6 : 111 ft.lb : 200 % : 250 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 6.6 Duty cycle : Cont. : 111 ft.lb Insulation class : F : 200 % Service factor : 1.25		: 1.25	
Rated speed	: 3555 rpm	Design		: B			
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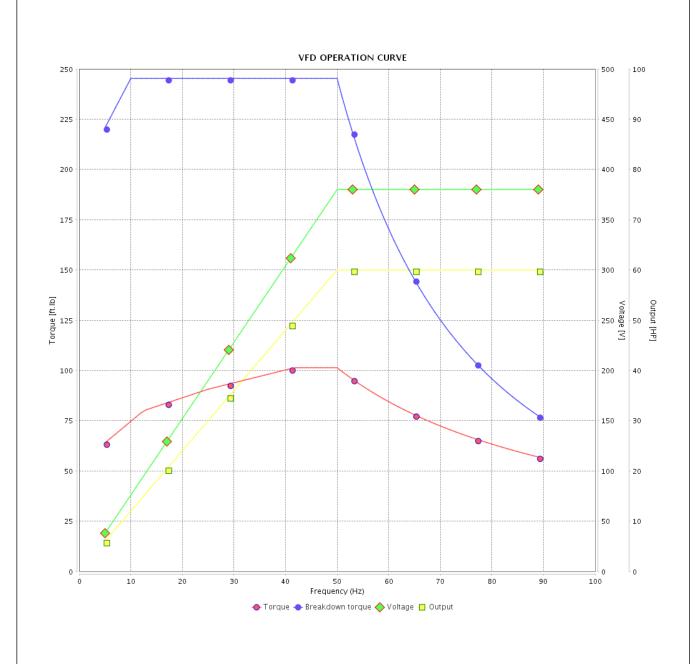
Customer

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Efficiency Three-Phase

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Catalog #: 07536OT3E364JM-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		: F ` ´	
Locked rotor torqu	e :	190 %	Service fa	ctor	: 1.00	
Breakdown torque	: : :	229 %	Temperature rise		: 80 K	
Rated speed	: 2	2955 rpm	Design		: B	
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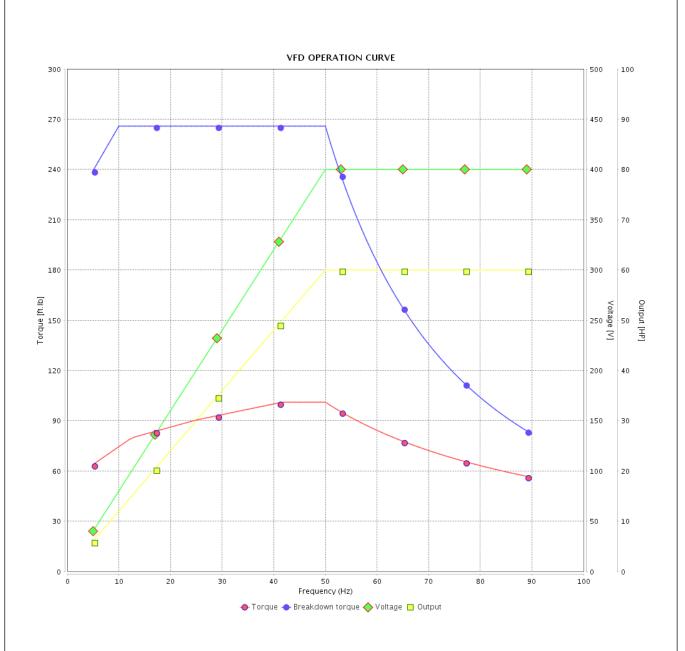
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Performance		: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	lue le	: 79.4 A : 7.4 : 106 ft.lb : 220 % : 250 % : 2963 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 6.40 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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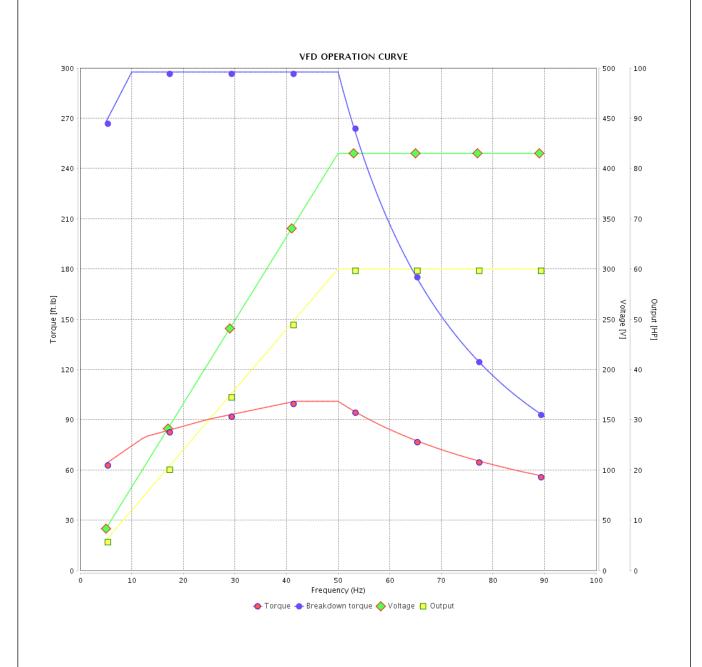
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Catalog #: 07536OT3E364JM-W40



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 7	: 78.4 A		f inertia (J)	: 6.40 sq.ft.lb	
LRC	: 7	.5	Duty cycle)	: Cont.(S1)	
Rated torque	:1	06 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	20 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	80 %	Temperature rise		: 80 K	
Rated speed	: 2	965 rpm	Design		: B	
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