DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14267928

Catalog #: 04012OT3E364JM-W40

Frame : 364/5JM

Insulation class : F

Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C

Altitude : 1000 m.a.s.l.
Protection degree : IP23

Cooling method : IC01 - ODP Mounting : F-1

Rotation¹ : Both (CW and CCW)

Starting method : Direct On Line

Approx. weight³ : 766 lb

Moment of inertia (J) : 21.8 sq.ft.lb

Protection degree		: IP23	Moment of ine	ertia (J) : 21.8	sq.ft.lb
Design		: B			
Output [HP]	utput [HP]		30	30	30
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		94.2/47.1	42.7	41.0	40.0
L. R. Amperes [A]		603/301	295	287	320
LRC [A]		6.4x(Code G)	6.9x(Code H)	7.0x(Code H)	8.0x(Code J)
No load current [A]	31.6/15.8	15.6	16.7	17.6
Rated speed [RPN	/ 1]	1185	985	985	985
Slip [%]		1.25	1.50	1.50	1.50
Rated torque [ft.lb]		177	160	160	160
Locked rotor torque [%]		200	200	229	250
Breakdown torque	[%]	229	260	290	310
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		39s (cold) 22s (hot)	45s (cold) 25s (hot)	50s (cold) 28s (hot)	41s (cold) 23s (hot)
Noise level ²		68.0 dB(A)			
	25%	93.5	91.7	91.7	91.7
Efficiency (%)	50%	93.6	91.8	91.8	91.8
Linciency (70)	75%	94.1	92.2	92.2	92.2
	100%	94.1	92.2	92.2	92.2
	25%	0.49	0.47	0.43	0.41
Power Factor	50%	0.74	0.72	0.69	0.66
1 OWELL ACIOI	75%	0.82	0.82	0.79	0.78
	100%	0.85	0.85	0.84	0.83

Drive end Non drive end

6314 C3 6212 Z C3

Without Without

Bearing Seal Bearing Seal 20000 h 20000 h

Lubrication interval:20000 h20000 hLubricant amount:27 g13 gLubricant type:Mobil Polyrex EM

Foundation loads

Max. traction : 1316 lb Max. compression : 2082 lb

Notes

Bearing type

Sealing

USABLE @208V 104A SF 1.15 SFA 120A

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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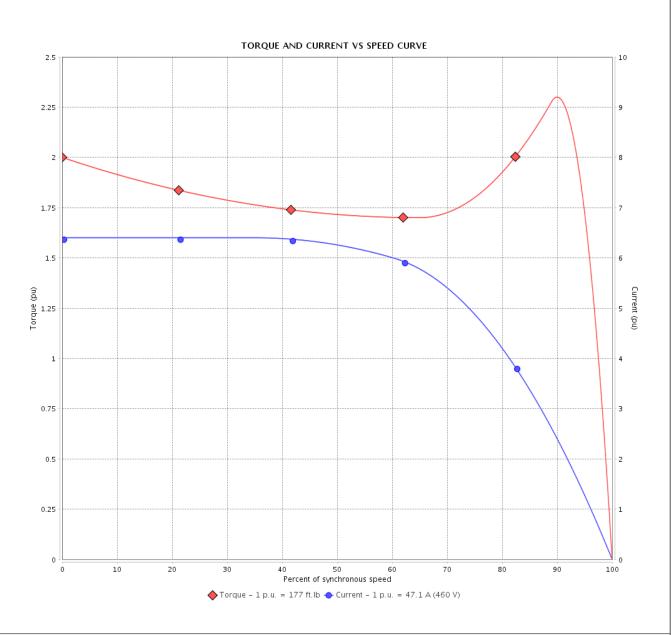
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14267928

Catalog #: 04012OT3E364JM-W40



Performance : 230/460 V 60 Hz 6P Rated current : 94.2/47.1 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B

Locked rotor time : 39s (cold) 22s (hot)

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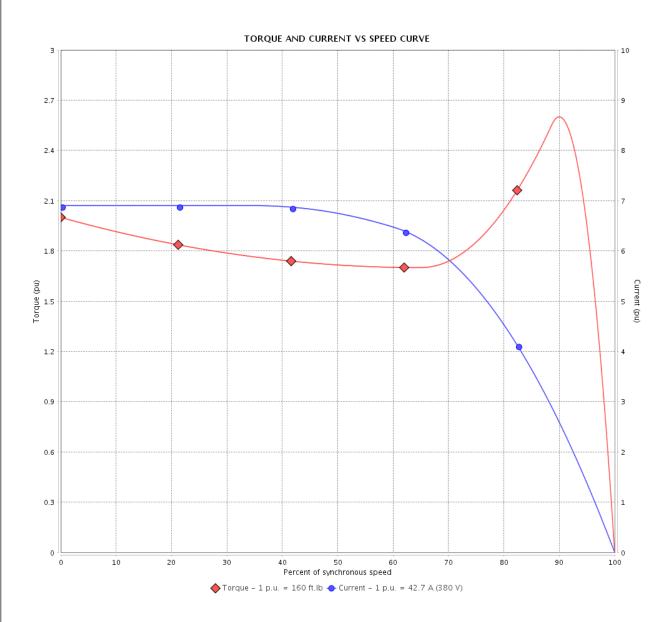


Customer :

Product line : W40 JM Pump NEMA Premium Product code : 14267928

Efficiency Three-Phase

Catalog #: 04012OT3E364JM-W40



Performance	: 380 V 50 Hz 6P IE3			
Rated current	: 42.7 A	Moment of inertia (J)	: 21.8 sq.ft.lb	
LRC	: 6.9	Duty cycle	: Cont.(S1)	
Rated torque	: 160 ft.lb	Insulation class	:F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	

Locked rotor time : 45s (cold) 25s (hot)

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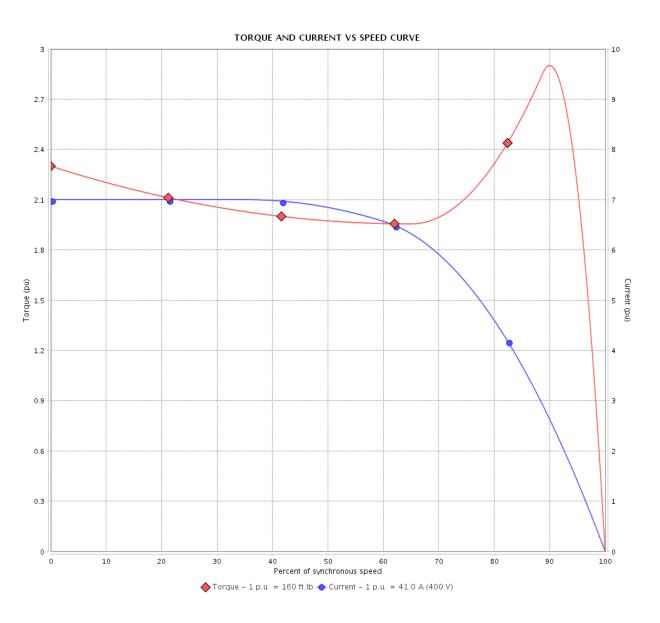
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14267928

Catalog #: 04012OT3E364JM-W40



Performance : 400 V 50 Hz 6P IE3 Rated current : 41.0 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 160 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 985 rpm Design : B

Locked rotor time : 50s (cold) 28s (hot)

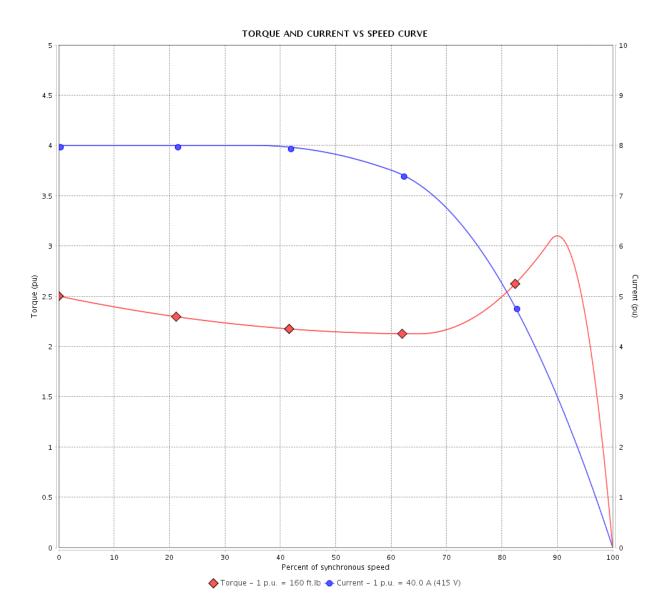
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Customer Product line : W40 JM Pump NEMA Premium Product code: 14267928 Efficiency Three-Phase

Catalog #: 04012OT3E364JM-W40



Performance	: 415 V 50 Hz 6P IE3		
Rated current	: 40.0 A	Moment of inertia (J)	: 21.8 sq.ft.lb
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 160 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B
Locked rotor time	: 41s (cold) 23s (hot)		

Locked folor tilli	. 4	15 (Cold) 235 (110t)			
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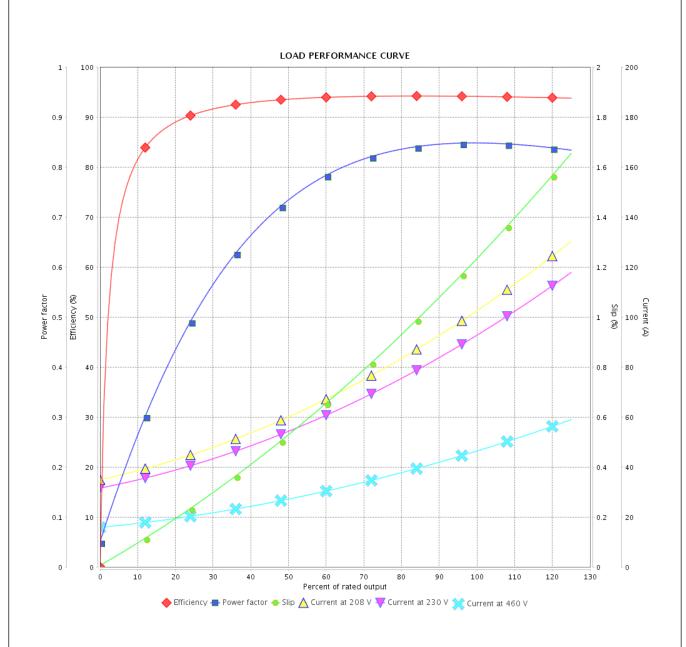
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14267928

Catalog #: 04012OT3E364JM-W40



Performance : 230/460 V 60 Hz 6P Rated current : 94.2/47.1 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.4 Insulation class Rated torque : 177 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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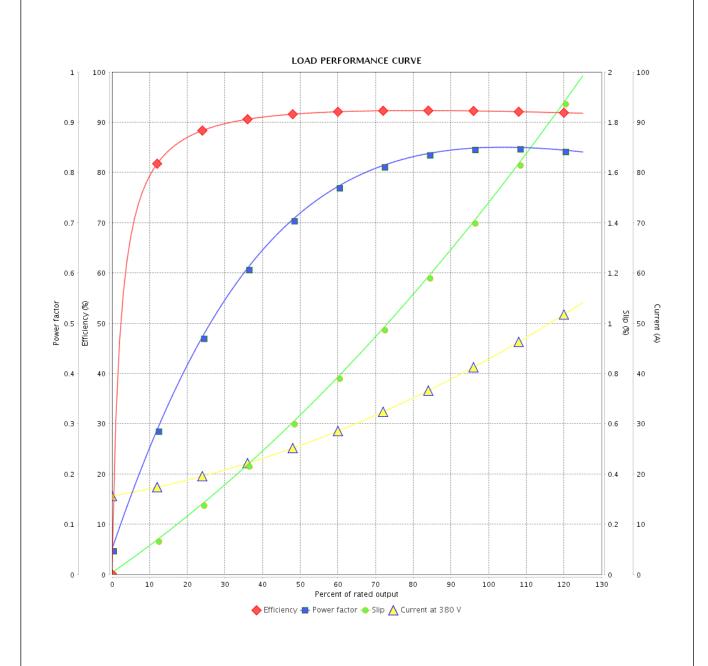
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14267928

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Performance : 380 V 50 Hz 6P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 42.7 A : 6.9 : 160 ft.lb : 200 % : 260 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: Cont.(S1) : F : 1.00	
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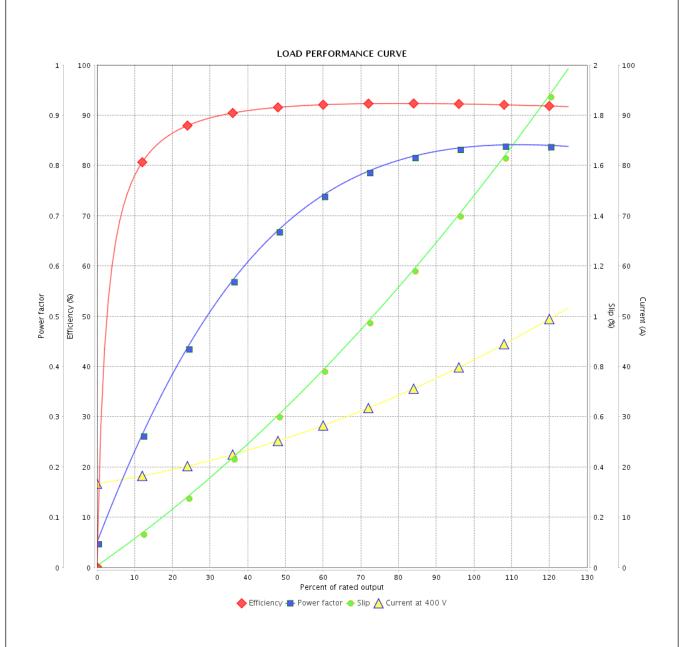
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14267928

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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.0 A : 7.0 : 160 ft.lb : 229 % : 290 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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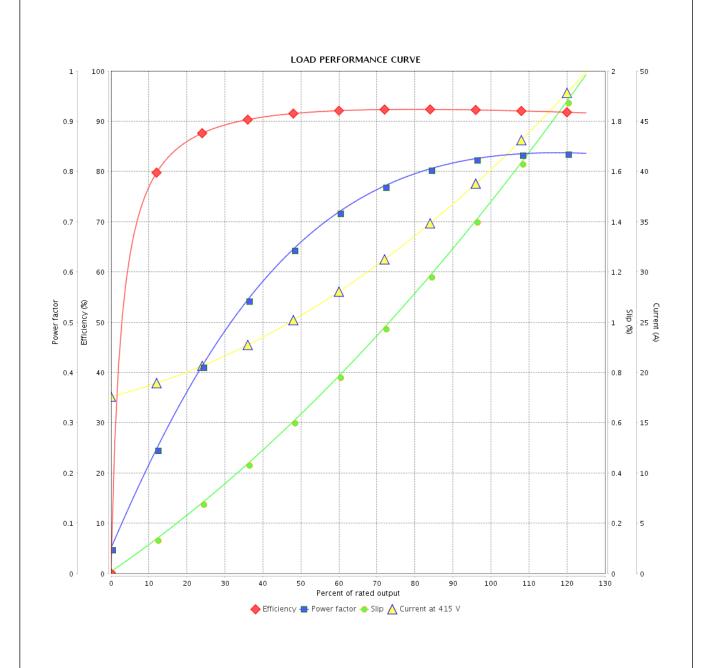
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14267928

Catalog #: 04012OT3E364JM-W40



Performance	nce : 415 V 50 Hz 6P IE3					
Rated current	: 4	0.0 A	Moment o	f inertia (J)	: 21.8 sq.ft.lb	
LRC	: 8	.0	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	60 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	50 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 3	10 %	Temperature rise		: 80 K	
Rated speed	: 9	5 rpm Design		: B		
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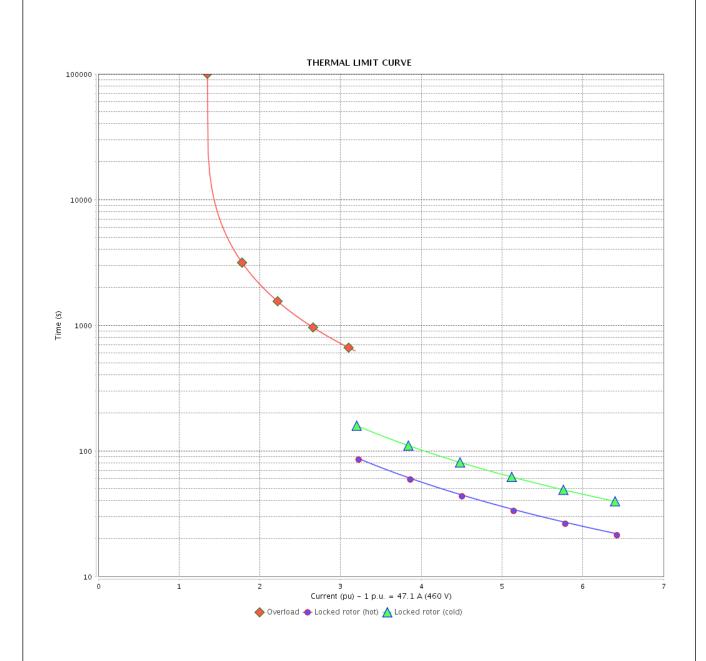


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Product line		: W40 JM Pump NEMA Pren Efficiency Three-Phase	IIIUIII	Froduct code .	14207926	
		·		Catalog # :	04012OT3E3	64JM-W40
D . (000/400 // 00 // 00				
Performance		: 230/460 V 60 Hz 6P : 94.2/47.1 A	Moment -	of inartia (I)	· 21 0 00 # 1h	
Rated current LRC		: 94.2/47.1 A : 6.4	Duty cycle	of inertia (J) e	: 21.8 sq.ft.lb : Cont.(S1)	
Rated torque		: 177 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 229 %	Service fa Temperati		: 1.25 : 80 K	
Rated speed		: 229 % : 1185 rpm	Design	ui C 115C	: B	
Heating constant		•				
Cooling constant						
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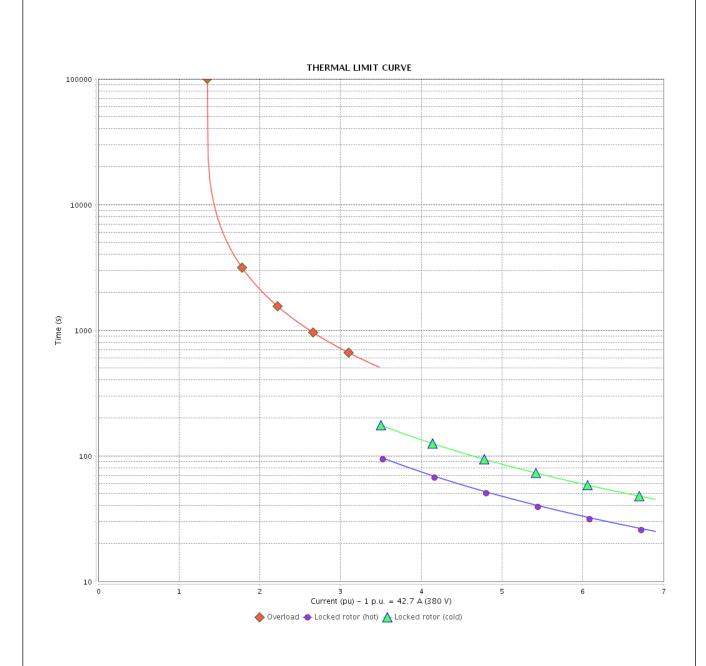


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Product line		: W40 JM Pump NEMA Pren Efficiency Three-Phase		Product code : Catalog # :	14267928 04012OT3E36	SA IM WAO
					5.0.20.000	
Performance		380 V 50 Hz 6P IE3				
Rated current	:	42.7 A	Moment o	of inertia (J)	: 21.8 sq.ft.lb	
LRC Rated torque		6.9 160 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord		200 %	Service fa		: 1.00	
Breakdown torqu Rated speed	ue :	260 % 985 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constan			Design		. U	
Cooling constant						
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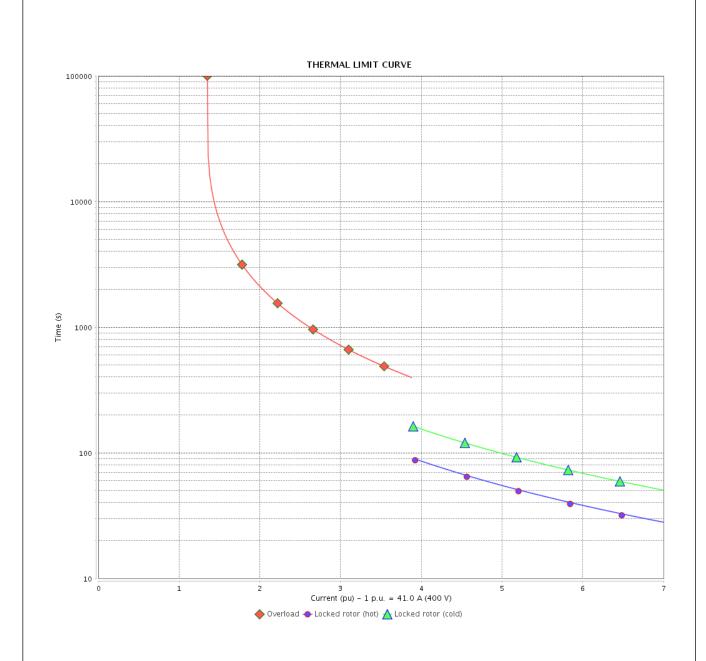


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Product line	: \	W40 JM Pump NEMA Prem	nium I	Product code :	14267928	
	Ei	fficiency Three-Phase	(Catalog # :	04012OT3E36	64JM-W40
					0.0.20.020	
Performance		00 V 50 Hz 6P IE3	Mamont	Finartia (I)	. 21 9 og ft lb	
Rated current LRC	: 4 ² : 7.	1.0 A 0	Duty cycle	f inertia (J)	: 21.8 sq.ft.lb : Cont.(S1)	
Rated torque		60 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		29 % 90 %	Service fac Temperatu		: 1.00 : 80 K	
Rated speed		35 rpm	Design		: B	
Heating constant	<u> </u>					
Cooling constant						
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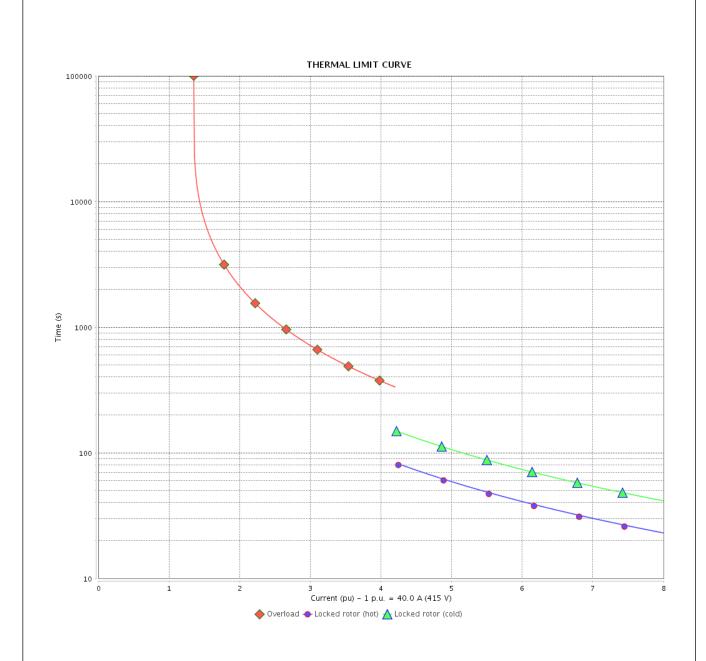


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Product line	: \	N40 JM Pump NEMA Prem	nium I	Product code :	14267928	
	Ei	fficiency Three-Phase	(Catalog # :	04012OT3E36	64JM-W40
					0.0.20.020	
Performance		15 V 50 Hz 6P IE3	Managart	Finantia (I)	. 24.0 an fills	
Rated current LRC	: 40 : 8.	0.0 A 0	Duty cycle	f inertia (J)	: 21.8 sq.ft.lb : Cont.(S1)	
Rated torque		60 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		50 % 10 %	Service fac Temperatu		: 1.00 : 80 K	
Rated speed		35 rpm	Design		: B	
Heating constant	<u> </u>					
Cooling constant						
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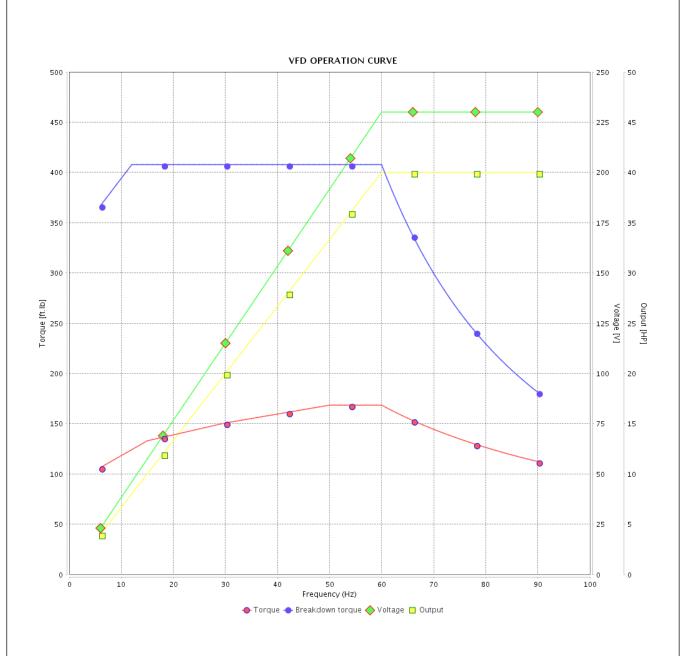
Product line : W40 JM Pump NEMA Premium

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Performance	: 23	30/460 V 60 Hz 6P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 17 que : 20 ue : 22	4.2/47.1 A 4 77 ft.lb 00 % 29 % 185 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		Duty cycle : Cont.(S1) ft.lb Insulation class : F Service factor : 1.25 Temperature rise : 80 K		
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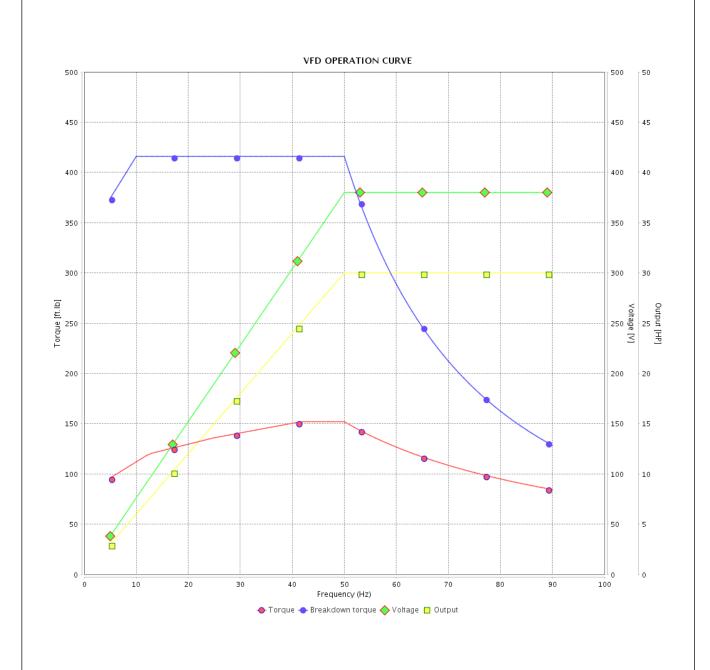
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14267928

Catalog #: 04012OT3E364JM-W40

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Performance	: 380 V 50 Hz 6P IE3				
Rated current	: 42.7 A	Moment of	f inertia (J)	: 21.8 sq.ft.lb	
LRC	: 6.9	Duty cycle	9	: Cont.(S1)	
Rated torque	: 160 ft.lb	Insulation	class	: F	
Locked rotor torque	: 200 %	260 % Temperature rise		: 1.00 : 80 K	
Breakdown torque	: 260 %				
Rated speed	: 985 rpm			: B	
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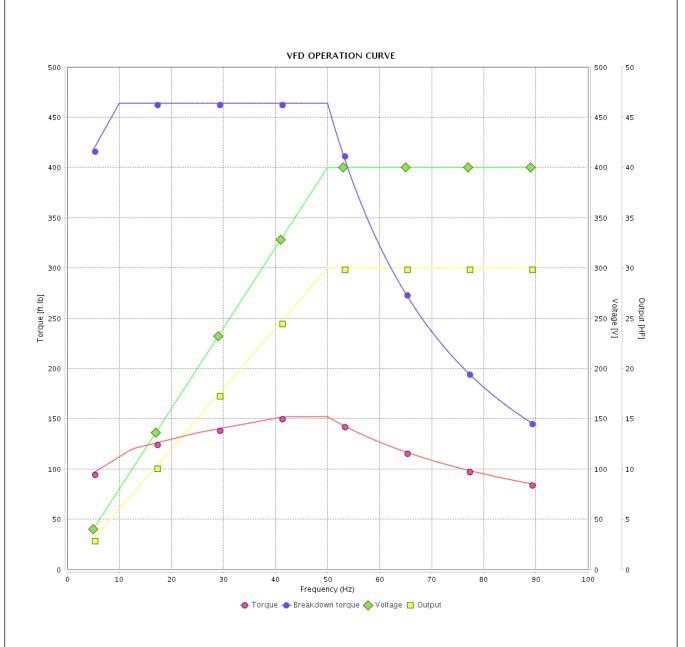
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Performance		: 400 V 50 Hz 6F	PIE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	ue e	: 41.0 A : 7.0 : 160 ft.lb : 229 % : 290 % : 985 rpm	Duty cyc Insulatio Service	n class	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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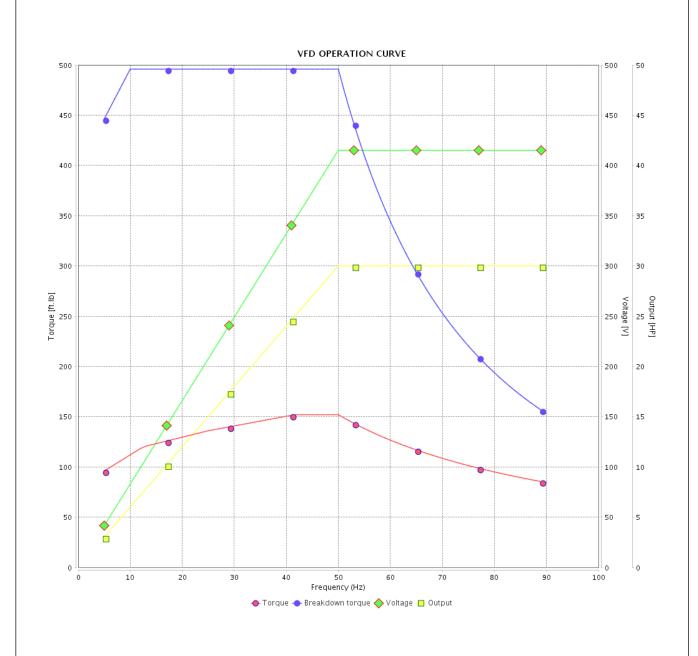
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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40.0 A : 8.0 : 160 ft.lb : 250 % : 310 % : 985 rpm	Duty cycle : Insulation class : Service factor : Temperature rise :		: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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