DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270483

Catalog #: 10018OT3G404JP-W40

Frame : 404/5JP

Insulation class

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

Altitude Protection degree Cooling method : IC01 - ODP Mounting : F-1

Rotation¹ : Both (CW and CCW)

Starting method : Direct On Line

Approx. weight³ : 992 lb Moment of inertia (J) : 21.9 sq.ft.lb

Protection degree		: IP23	Moment of ine	Moment of inertia (J) : 21.9 sq.ft.lb			
Design		: B					
Output [HP]		100	75	75	75		
Poles		4	4	4	4		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		460	380	400	415		
Rated current [A]		115	103	97.5	96.2		
L. R. Amperes [A]		782	742	683	750		
LRC [A]		6.8x(Code G)	7.2x(Code H)	7.0x(Code H)	7.8x(Code J)		
No load current [A]	39.7	33.0	36.5	40.0		
Rated speed [RPN	/ 1]	1780	1482	1484	1485		
Slip [%]		1.11	1.20	1.07	1.00		
Rated torque [ft.lb]		295	266	265	265		
Locked rotor torque [%]		200	220	240	270		
Breakdown torque	[%]	250	250	280	300		
Service factor		1.25	1.00	1.00	1.00		
Temperature rise		80 K	80 K	80 K	80 K		
Locked rotor time		21s (cold) 12s (hot)	23s (cold) 13s (hot)	21s (cold) 12s (hot)	25s (cold) 14s (hot)		
Noise level ²		69.0 dB(A)					
	25%	94.9	90.2	90.3	90.3		
Efficiency (%)	50%	95.0	91.9	92.0	92.0		
Elliciency (70)	75%	95.4	92.9	92.9	92.9		
100%		95.4	94.7	94.7	94.7		
	25%	0.49	0.50	0.47	0.44		
Power Factor 50%		0.75	0.73	0.72	0.70		
I OWELL ACTOL	75%	0.83	0.82	0.80	0.80		
	100%	0.86	0.86	0.86	0.84		
		Drive and Non dr	ive and Equadation los	ndo.			

Non drive end Foundation loads **Drive end**

Bearing type 6314 C3 6212 Z C3 Sealing Without Without

Bearing Seal Bearing Seal 20000 h

20000 h Lubrication interval Lubricant amount 13 g 27 g Lubricant type Mobil Polyrex EM

Max. traction : 1890 lb Max. compression : 2882 lb

Notes

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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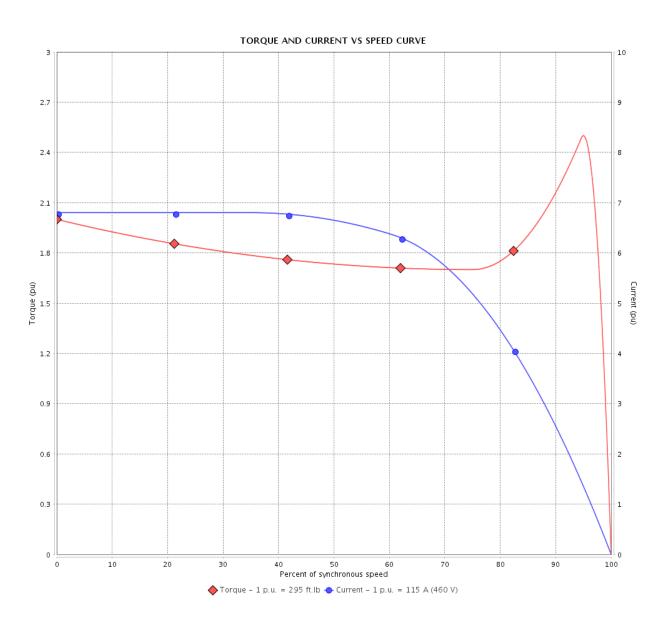
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270483

Catalog #: 10018OT3G404JP-W40



Performance : 460 V 60 Hz 4P Rated current : 115 A Moment of inertia (J) : 21.9 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 295 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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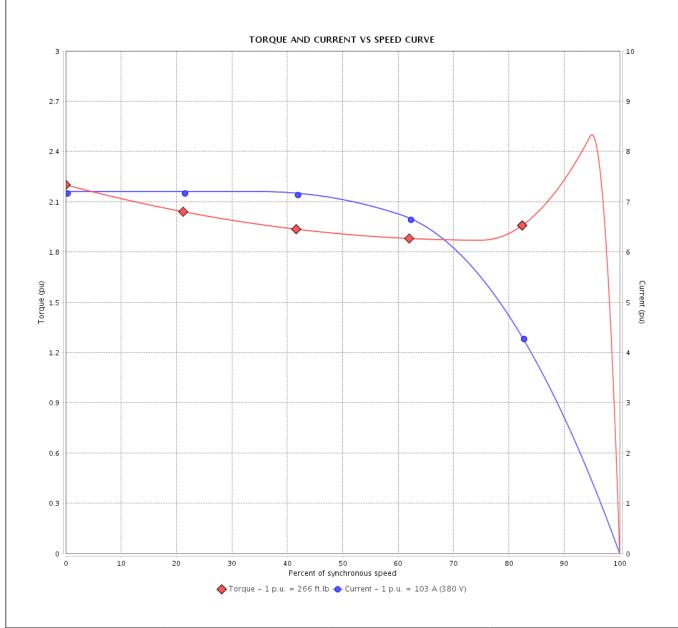
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270483

Catalog #: 10018OT3G404JP-W40



Performance : 380 V 50 Hz 4P IE3 Rated current : 103 A Moment of inertia (J) : 21.9 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 266 ft.lb : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1482 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

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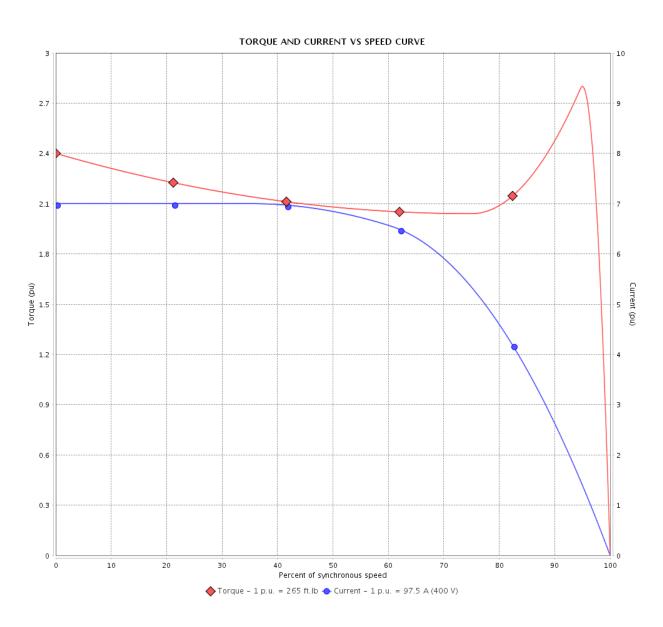
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270483

Catalog #: 10018OT3G404JP-W40



Performance : 400 V 50 Hz 4P IE3 Rated current : 97.5 A Moment of inertia (J) : 21.9 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 265 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1484 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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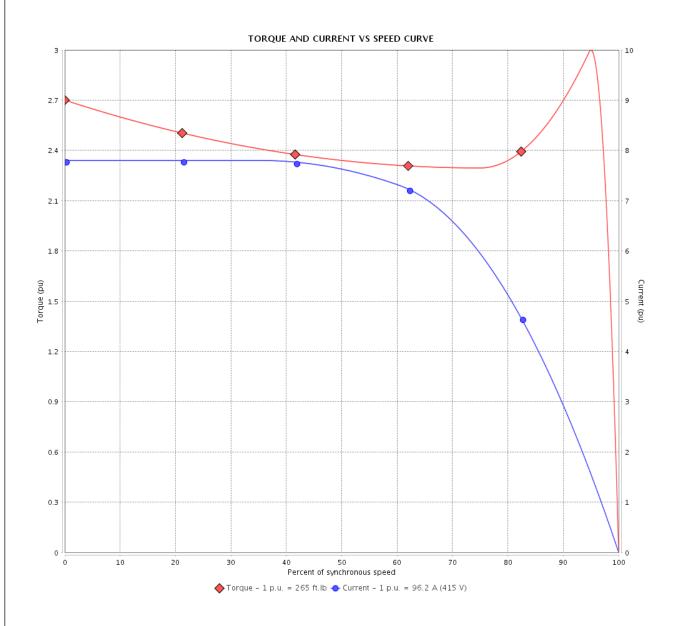
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270483

Catalog #: 10018OT3G404JP-W40



Performance : 415 V 50 Hz 4P IE3 Rated current : 96.2 A Moment of inertia (J) : 21.9 sq.ft.lb **LRC** : 7.8 Duty cycle : Cont.(S1) : 265 ft.lb Insulation class : F Rated torque : 270 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 300 % Temperature rise : B Rated speed : 1485 rpm Design

Locked rotor time : 25s (cold) 14s (hot)

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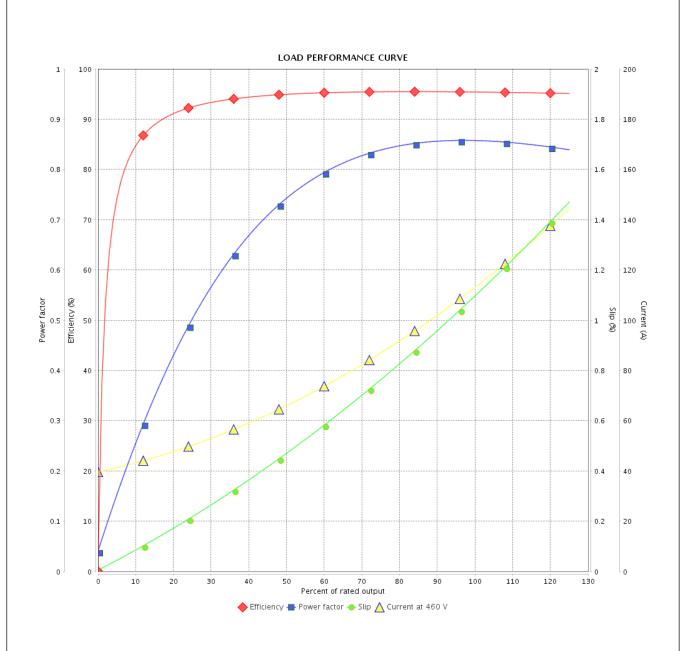
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Efficiency Three-Phase

Product code: 14270483

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Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 115 A : 6.8 : 295 ft.lb : 200 % : 250 % : 1780 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class	: 21.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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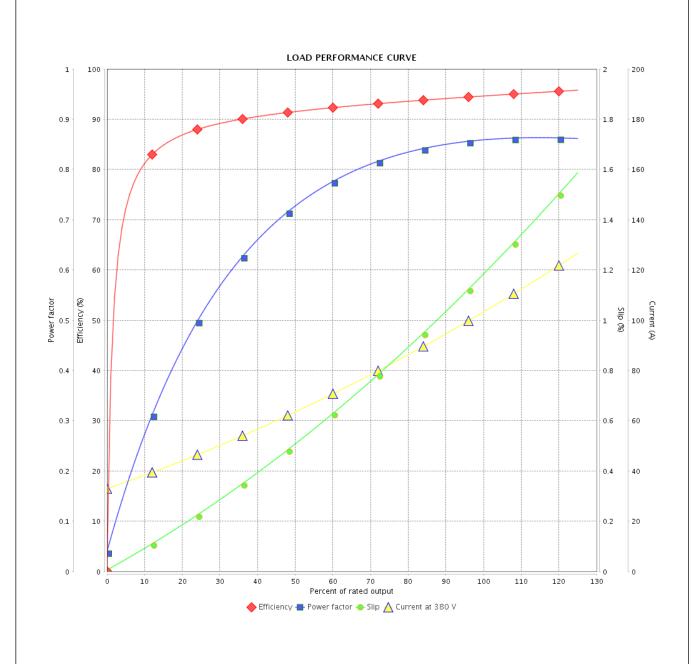
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270483

Catalog #: 10018OT3G404JP-W40



Performance	: 3	380 V 50 Hz 4P IE3				
Rated current : 103 A		103 A	Moment o	f inertia (J)	: 21.9 sq.ft.lb	
LRC	: 7	7.2	Duty cycle	}	: Cont.(S1)	
Rated torque	: 2	266 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	220 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	50 % Temperature rise		ıre rise	: 80 K	
Rated speed	: '	1482 rpm	Design		: B	
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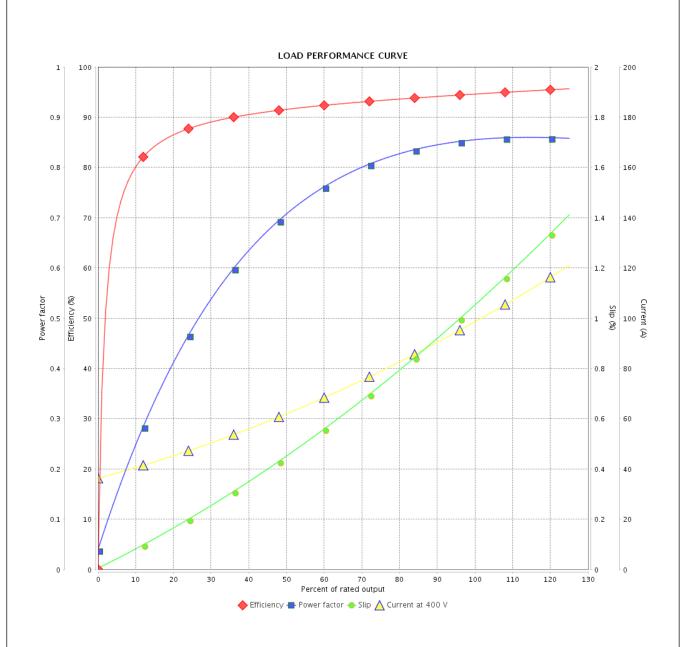
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Efficiency Three-Phase

Product code: 14270483

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Performance : 400 V 50 Hz 4P IE3 Rated current : 97.5 A Moment of inertia (J) : 21.9 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 265 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1484 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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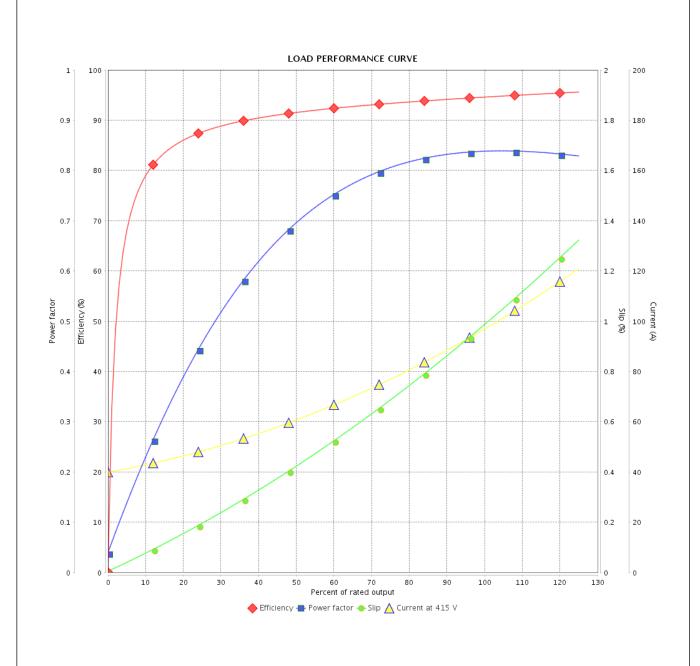
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270483

Catalog #: 10018OT3G404JP-W40



Performance	: 4	15 V 50 Hz 4P IE3				
LRC : 7		6.2 A .8 65 ft.lb 70 %	Duty cycle Insulation	Moment of inertia (J) Duty cycle Insulation class Service factor		
Breakdown torque Rated speed	: 30	300 % Temperature rise Design			: 1.00 : 80 K : B	
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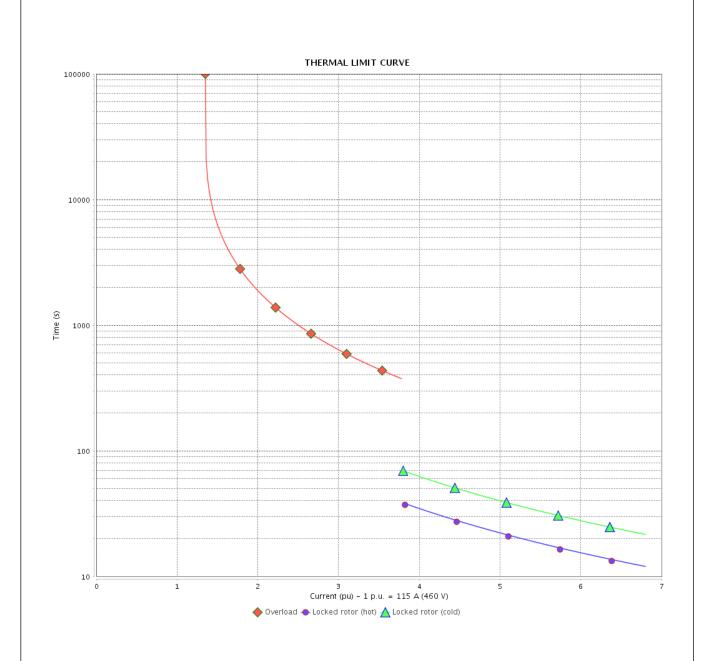


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Product line		: W40 JP Pump NEMA Prem	nium	Product code :	14270483	
1 Toddot IIITo		Efficiency Three-Phase				
				Catalog # :	10018OT3G4	04JP-W40
Performance		: 460 V 60 Hz 4P		<u> </u>	010 5:	
Rated current LRC		: 115 A : 6.8	Moment of Duty cycle	of inertia (J)	: 21.9 sq.ft.lb : Cont.(S1)	
Rated torque	:	: 295 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 250 %	Service fa Temperati		: 1.25 : 80 K	
Rated speed		: 250 % : 1780 rpm	Temperati Design	uie IISE	: 80 K : B	
Heating constant		•				
Cooling constant						
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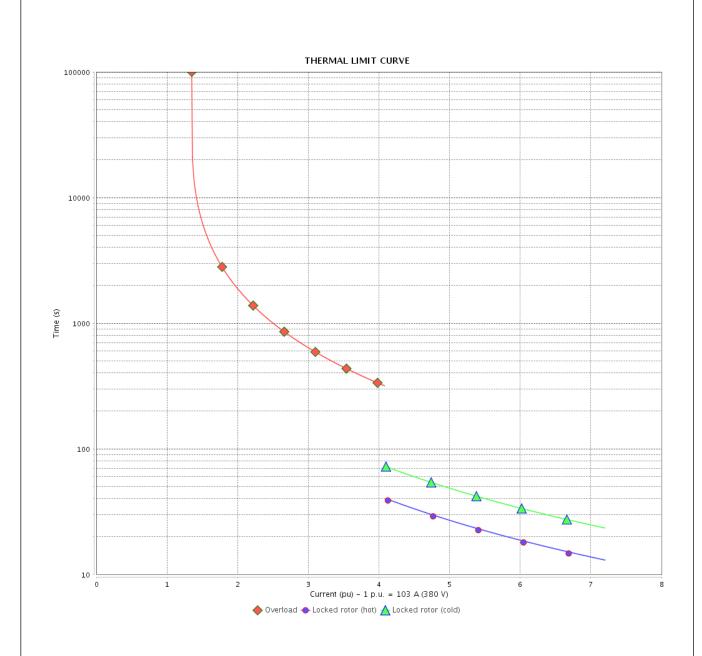


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Customer	:				
Product line	: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code :	14270483	
			Catalog # :	10018OT3G	104JP-W40
Performance	: 380 V 50 Hz 4P IE3				
LRC Rated torque Locked rotor torque Breakdown torque	: 103 A : 7.2 : 266 ft.lb : 220 % : 250 % : 1482 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 21.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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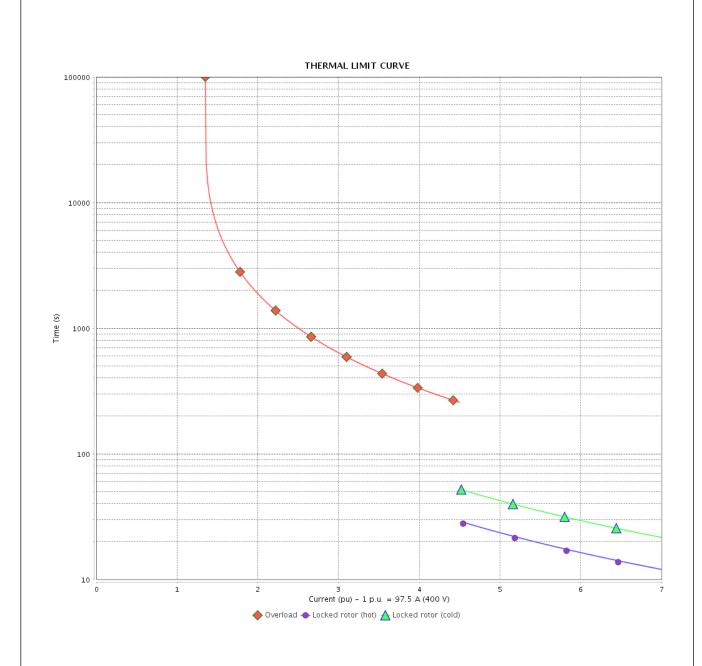


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Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase	iium	Product code :	14270483	
		,		Catalog # :	10018OT3G4	04JP-W40
Performance	:	400 V 50 Hz 4P IE3				
Rated current LRC	:	97.5 A 7.0	Moment of Duty cycle	of inertia (J)	: 21.9 sq.ft.lb : Cont.(S1)	
Rated torque		265 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu	ie :	240 % 280 %	Service fa		: 1.00 : 80 K	
Rated speed		1484 rpm	Design		: B	
Heating constant						
Cooling constant	[Changes Commercial		Dorfe was!	Charles	Data
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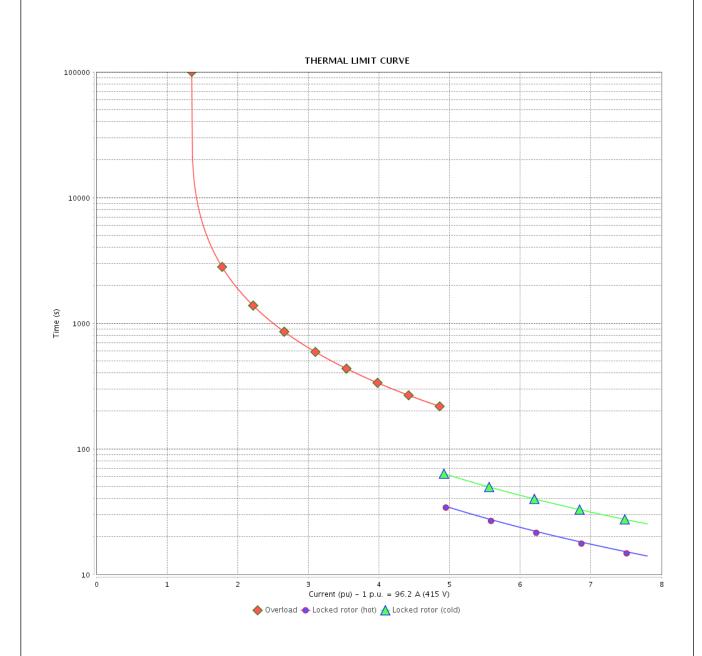


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Product line	: \ E1	W40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14270483 10018OT3G4	04JP-W40
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 96 : 7. : 26 que : 27 ue : 30 : 14	15 V 50 Hz 4P IE3 6.2 A 8 65 ft.lb 70 % 00 % 485 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 21.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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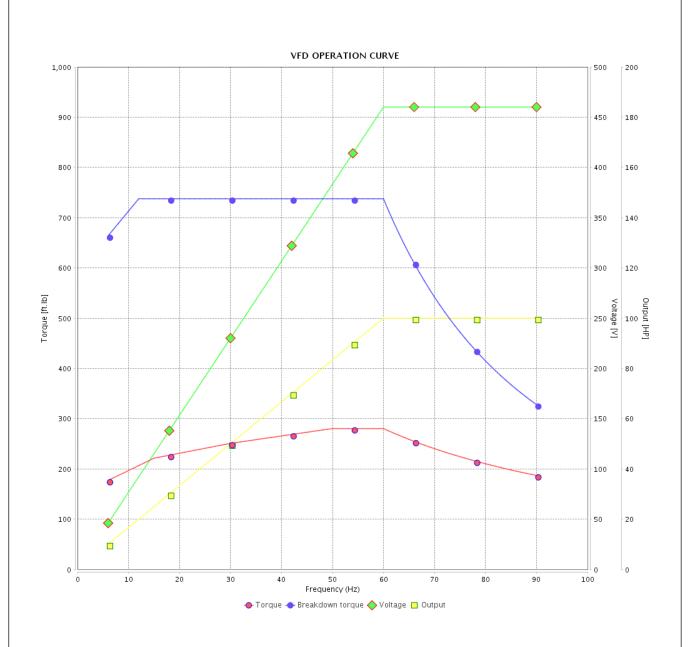
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270483

Catalog #: 10018OT3G404JP-W40



Performance : 460 V 60 Hz 4P : 115 A Rated current Moment of inertia (J) : 21.9 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 Insulation class Rated torque : 295 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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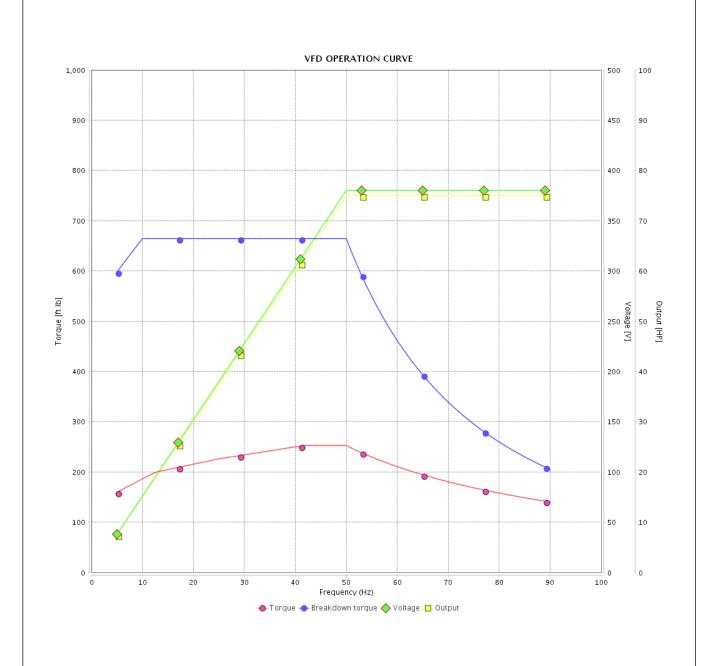
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270483

Catalog #: 10018OT3G404JP-W40



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current : 1		03 A	Moment o	Moment of inertia (J)		
LRC	: 7	.2	Duty cycle	9	: Cont.(S1)	
Rated torque	: 2	66 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	20 %	Service fa	ictor	: 1.00	
Breakdown torque		50 %	Temperati	Temperature rise		
Rated speed	: 1	482 rpm	Design		: B	
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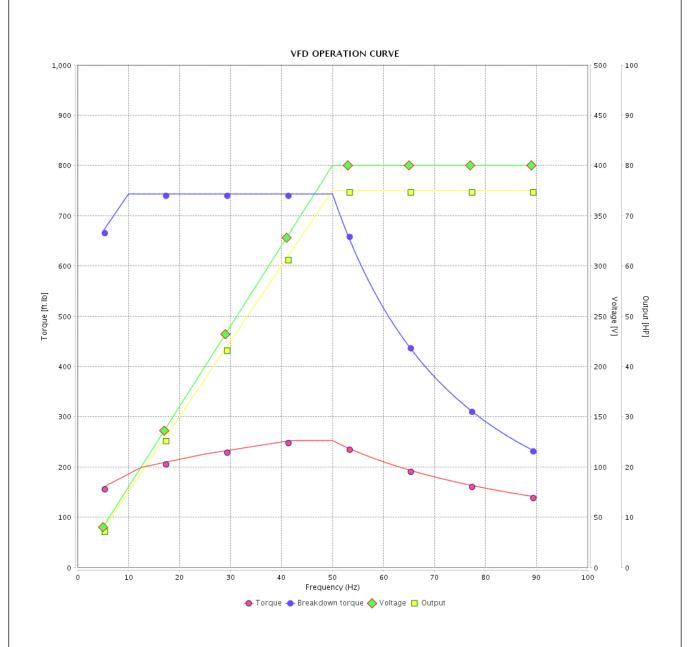
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270483

Catalog #: 10018OT3G404JP-W40

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Performance	: 400 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 97.5 A : 7.0 : 265 ft.lb : 240 % : 280 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 21.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 1484 rpm	Design	: B	
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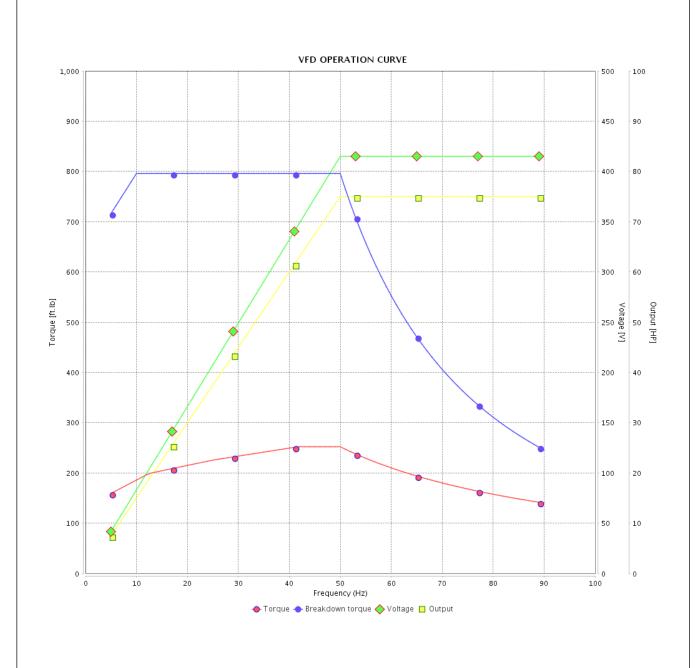
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270483

Catalog #: 10018OT3G404JP-W40



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current : 9		6.2 A	Moment o	Moment of inertia (J)		
LRC : 7.8		.8	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	65 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	70 %	Service fa	ctor	: 1.00	
Breakdown torque		00 %	Temperati	Temperature rise		
Rated speed	: 1	485 rpm	Design		: B	
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