DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270481

Catalog # : 10018OT3E404JP-W40

Frame : 404/5JP

Insulation class : F
Duty cycle : Cont.(S1)

Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.

Protection degree : IP23
Design : B

Cooling method : IC01 - ODP

Mounting : F-1

Rotation¹ : Both (CW and CCW)

Starting method : Direct On Line Approx. weight³ : 967 lb

Approx. weight³ : 967 lb

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

Design		: B			- 4
Output [HP]		100	75	75	75
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]			380	400	415
Rated current [A]		230/115	103	97.5	96.2
L. R. Amperes [A]		1564/782	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]		79.4/39.7	33.0	36.5	40.0
Rated speed [RPM	1]	1780	1482	1484	1485
Slip [%]	Slip [%]		1.20	1.07	1.00
Rated torque [ft.lb]		295	266	266 265	
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
Efficiency (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

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6314 C3 6212 Z C3 Max. traction : 1902 lb Sealing : Without Without Max. compression : 2870 lb

Bearing Seal Bearing Seal Lubrication interval : 20000 h 20000 h Lubricant amount : 27 g 13 g

Lubricant amount : 27 g 13 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 254A SF 1.15 SFA 292A

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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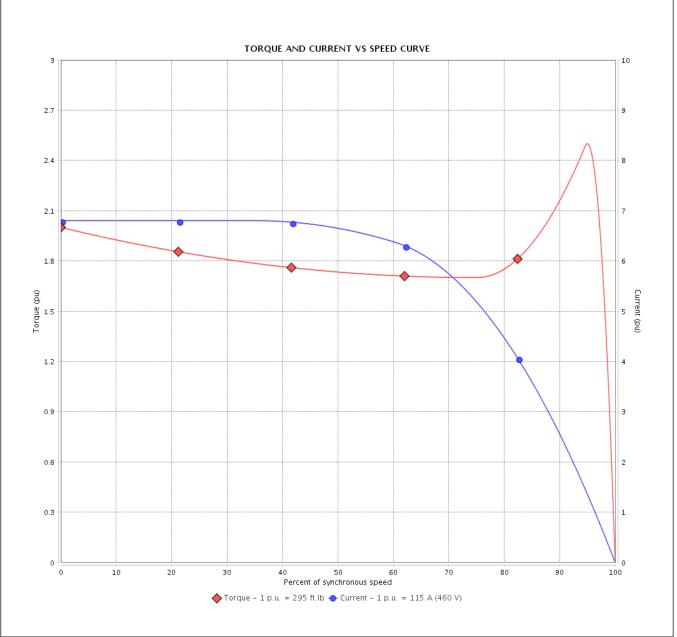
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270481

Catalog #: 10018OT3E404JP-W40



Performance : 230/460 V 60 Hz 4P Rated current : 230/115 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 Locked rotor torque : 200 % Service factor : 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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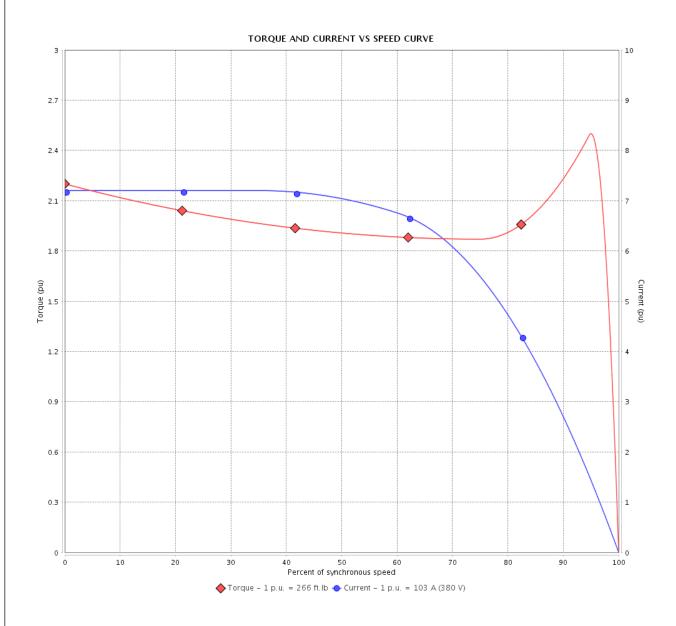
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Product line : W40 JP Pump NEMA Premium Product code:

Efficiency Three-Phase

14270481

Catalog #: 10018OT3E404JP-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) : 266 ft.lb Insulation class : F Rated torque : 220 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 250 % Temperature rise : B Rated speed : 1482 rpm Design Locked rotor time : 23s (cold) 13s (hot)

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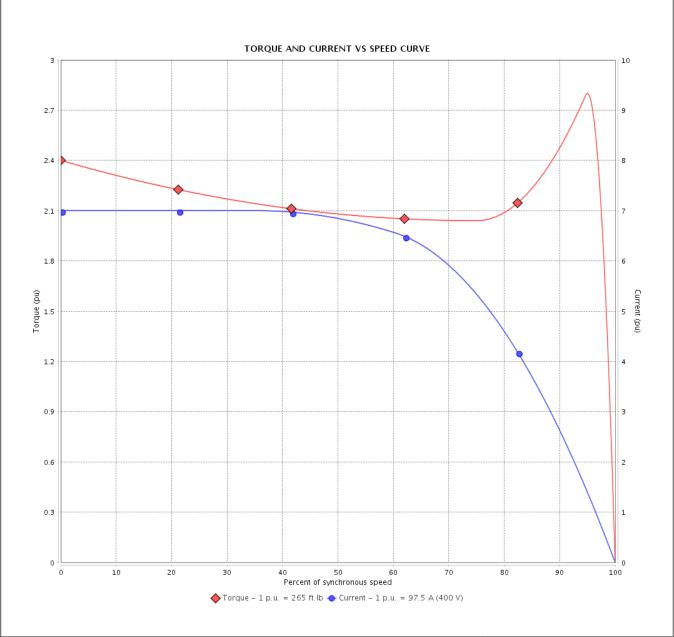
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270481

Catalog #: 10018OT3E404JP-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 Service factor Locked rotor torque : 240 % : 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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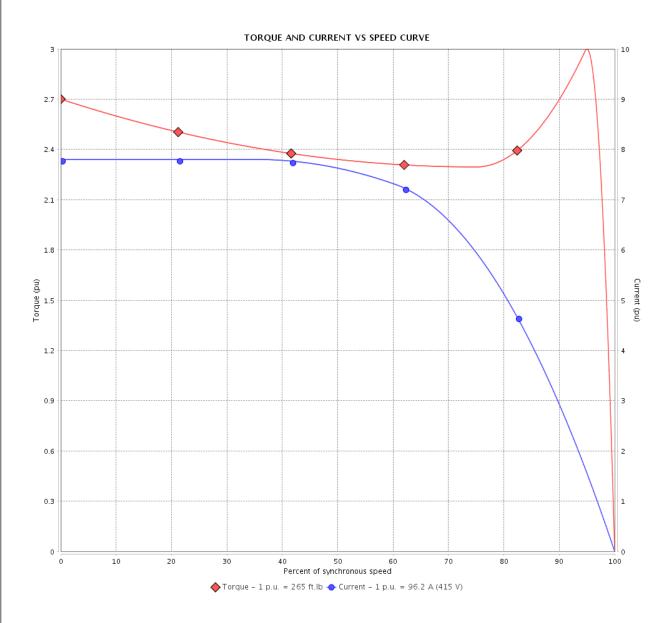
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270481

Catalog #: 10018OT3E404JP-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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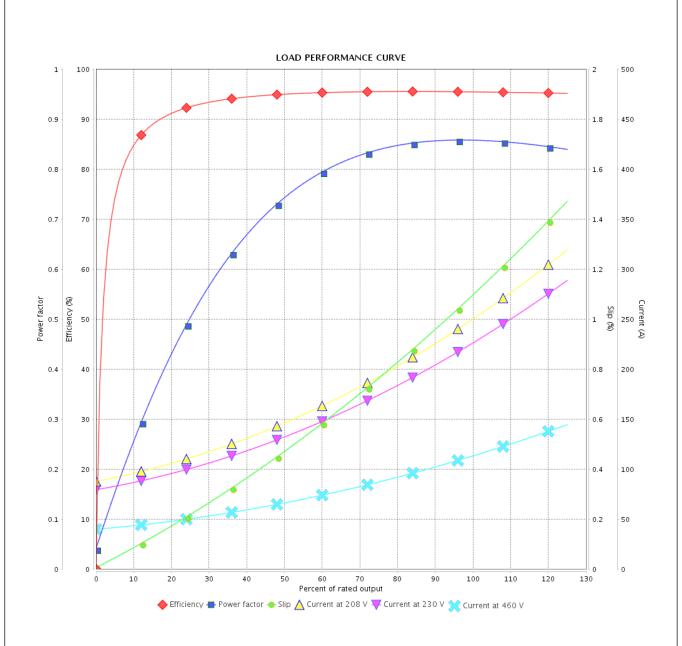
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Performance : 230/460 V 60 Hz 4P Rated current : 230/115 A Moment of inertia (J) : 21.9 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 Insulation class Rated torque : 295 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

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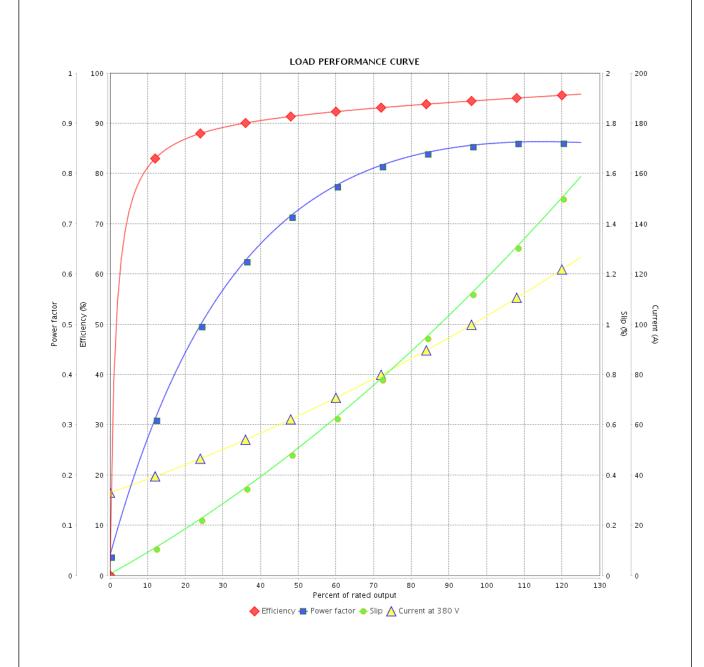
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270481

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 103 A : 7.2 : 266 ft.lb : 220 % : 250 % : 1482 rpm	Duty cycle : Consultation class : For Service factor : 1.		: 1.00 : 80 K	
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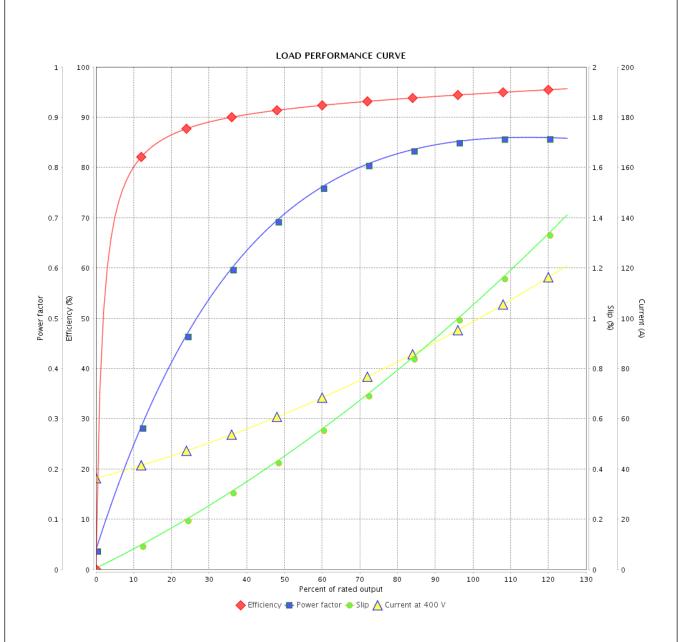
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Product code: 14270481

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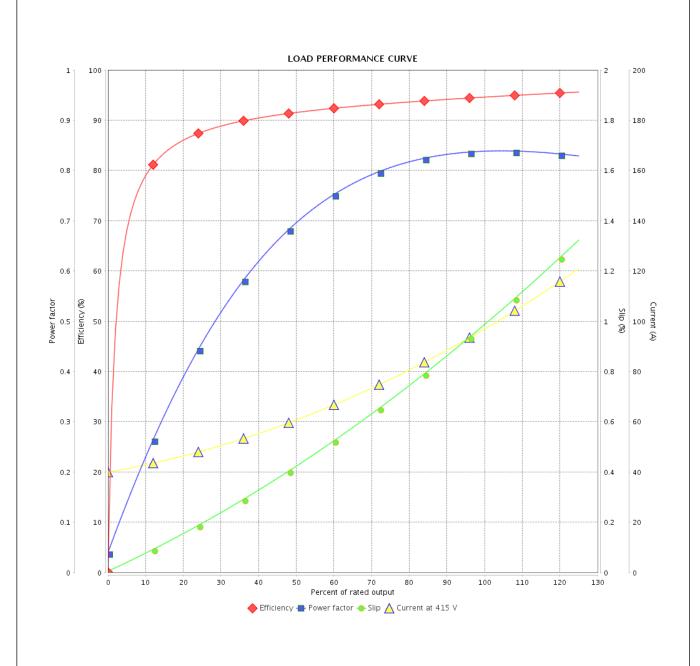
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270481

Catalog #: 10018OT3E404JP-W40



Performance : 41:		15 V 50 Hz 4P IE3				
LRC : 7 Rated torque : 2		65 ft.lb	Moment of inertia (J) Duty cycle Insulation class Service factor		: 21.9 sq.ft.lb : Cont.(S1) : F	
Breakdown torque Rated speed	: 30	70 % 00 % 485 rpm	Temperature rise Design		: 1.00 : 80 K : B	
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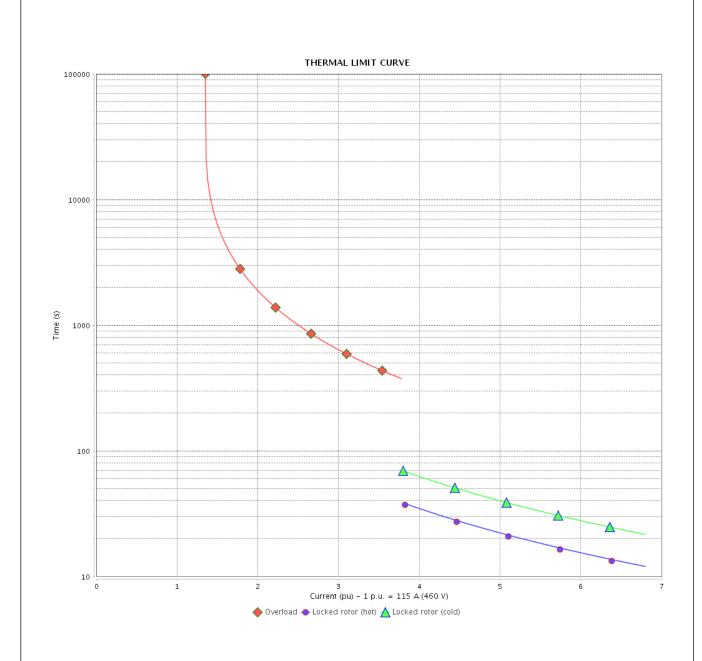


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Product line	: V Ei	W40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14270481 10018OT3E40	04JP-W40
Performance		30/460 V 60 Hz 4P				
Rated current LRC	: 23 : 6.	30/115 A 8	Moment of Duty cycle	finertia (J)	: 21.9 sq.ft.lb : Cont.(S1)	
Rated torque		95 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		00 % 50 %	Service fac Temperatu		: 1.25 : 80 K	
Rated speed		780 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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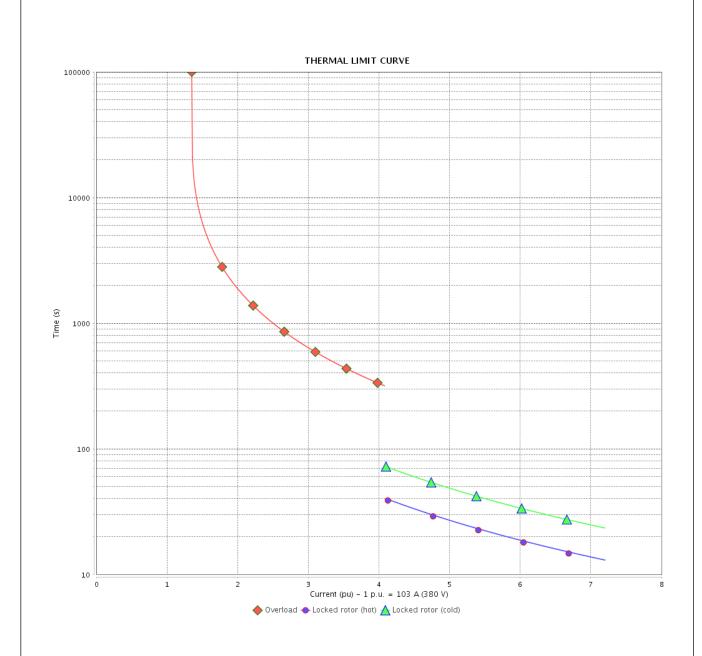


Customer		:				
Product line		: W40 JP Pump NEMA Prem	nium	Product code :	14270481	
		Efficiency Three-Phase		Catalog # :	10018OT3E4	04JP-W40
Performance		: 380 V 50 Hz 4P IE3	Managata	finantia (1)	. 24.0 az # lb	
Rated current LRC		: 103 A : 7.2	Duty cycle	of inertia (J)	: 21.9 sq.ft.lb : Cont.(S1)	
Rated torque		: 266 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 220 % : 250 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		: 1482 rpm	Design	ui G 113 C	: B	
Heating constan	t					
Cooling constant						
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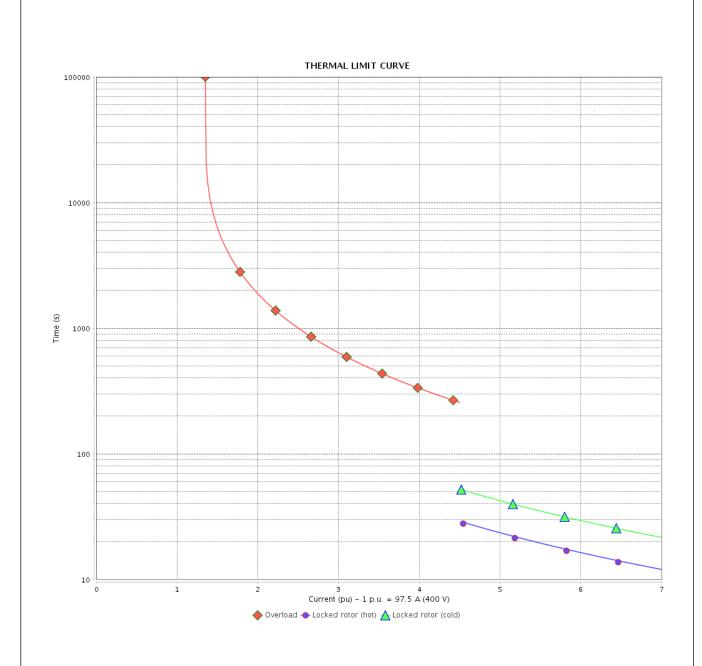


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14270481 10018OT3E40)4JP-W40
Performance	:	400 V 50 Hz 4P IE3				
Rated current LRC	:	97.5 A 7.0	Duty cycle		: 21.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		265 ft.lb 240 %	Insulation Service fa		: F : 1.00	
Breakdown torqu Rated speed	ie :	280 % 1484 rpm	Temperatu Design		: 80 K : B	
Heating constant						
Cooling constant Rev.	L	Changes Summary		Performed	Checked	Date
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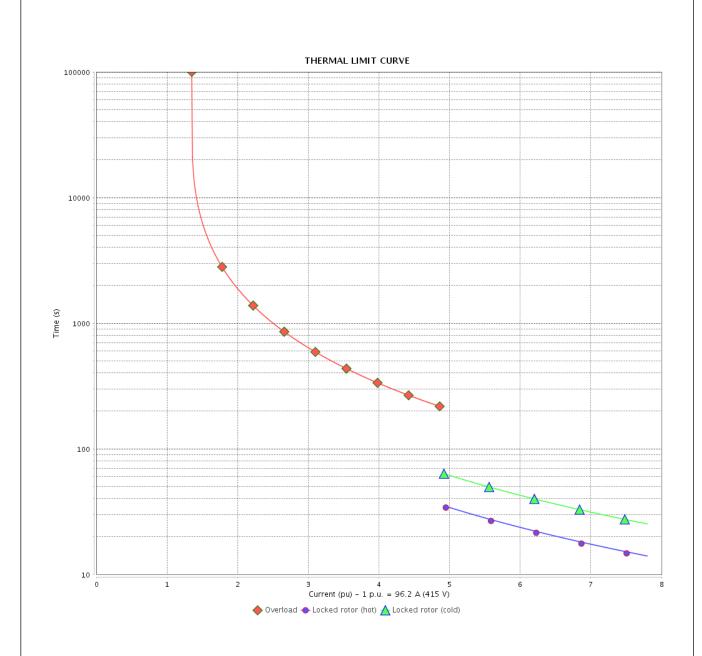


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14270481 10018OT3E40)4JP-W40
Performance		415 V 50 Hz 4P IE3	N.4	Character (I)	04.0	
Rated current LRC		96.2 A 7.8	Moment on Duty cycle	of inertia (J)	: 21.9 sq.ft.lb : Cont.(S1)	
Rated torque	:	265 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		270 % 300 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		1485 rpm	Design	ure rise	: B	
Heating constant						
Cooling constant Rev.	l .	Changes Summary		Performed	Checked	Date
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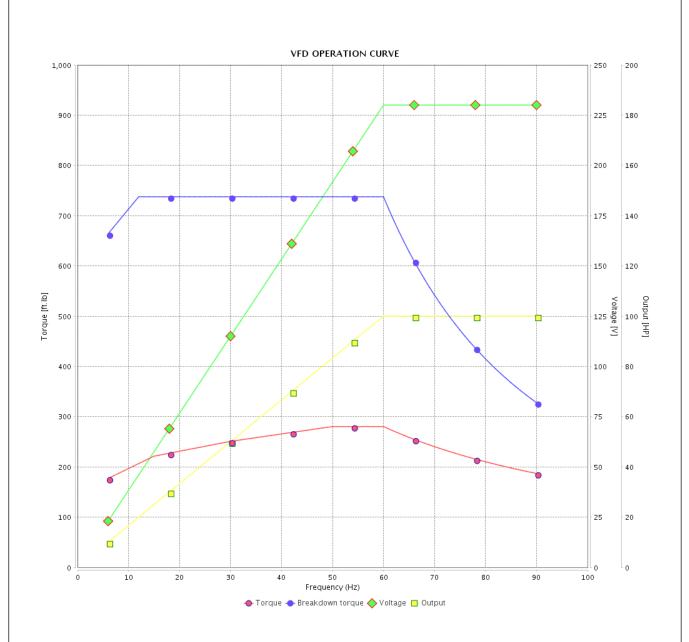
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Efficiency Three-Phase

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Performance : 230/460 V 60 Hz 4P : 230/115 A Rated current Moment of inertia (J) : 21.9 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) 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 Checked by Revision Page

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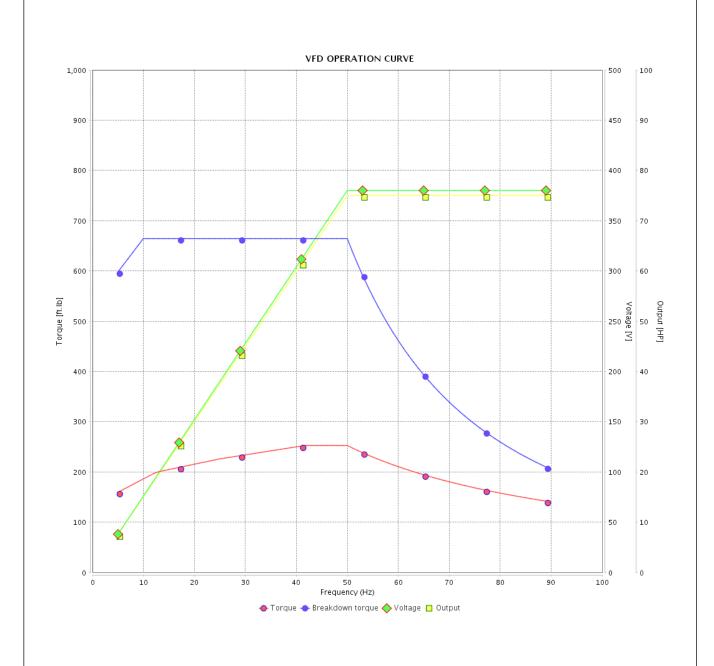
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Rated current : 103 A	Performance	: 380 V 50 Hz 4P IE3				
Rated torque : 266 ft.lb Insulation class : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1482 rpm Design : B Rev. Changes Summary Performed Checked				•		
Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1482 rpm Design : B Rev. Changes Summary Performed Checked	LRC	: 7.2	Duty cycle	: Cont.(S1)	: Cont.(S1)	
Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1482 rpm Design : B Rev. Changes Summary Performed Checked I	Rated torque	: 266 ft.lb	Insulation class	: F	: F	
Rated speed : 1482 rpm Design : B Rev. Changes Summary Performed Checked I	Locked rotor torque	: 220 %	Service factor	: 1.00	: 1.00	
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	Rated speed	: 1482 rpm	Design	: B		
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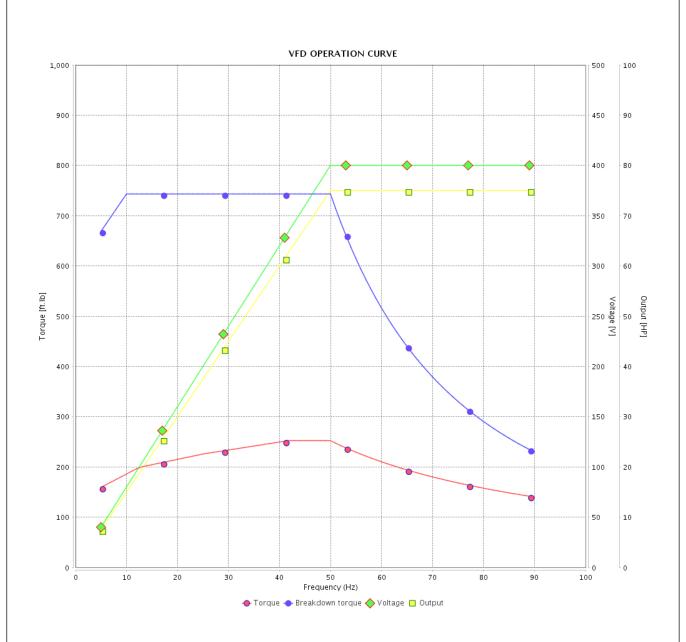
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Performance : 400 V 50 Hz 4P IE3 Rated current : 97.5 A Moment of inertia (J) : 21.9 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 265 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1484 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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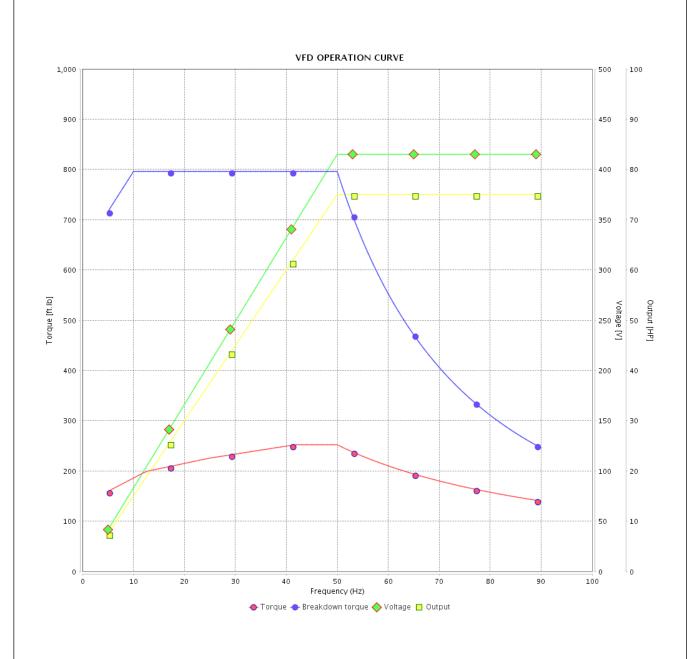
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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of Duty cycle Insulation of Service fact Temperatur Design	class ctor	: 21.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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