DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270420

Catalog #: 06012OT3E404JP-W40

Frame : 404/5JP Cooling method : IC01 - ODP

Insulation class : F Mounting : F-1

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

Ambient temperature : -20°C to +40°C Starting method : Direct On Line
Altitude : 1000 m.a.s.l. Approx. weight³ : 975 lb

Protection degree : IP23 | Moment of inertia (J) : 29.4 sq.ft.lb

Design : B Output [HP] 60 50 50 50 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 141/70.3 70.0 67.3 65.6 L. R. Amperes [A] 942/471 499 490 478 7.0x(Code H) 7.1x(Code H) 7.6x(Code J) LRC [A] 6.7x(Code G) No load current [A] 50.0/25.0 24.8 26.8 28.3 Rated speed [RPM] 1185 985 985 985 Slip [%] 1.25 1.50 1.50 1.50 Rated torque [ft.lb] 266 267 267 267 Locked rotor torque [%] 240 220 250 280 Breakdown torque [%] 250 250 290 310 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 28s (cold) 16s (hot) 27s (cold) 15s (hot) 30s (cold) 17s (hot) 28s (cold) 16s (hot) Noise level² 68.0 dB(A) 25% 91.4 92.9 92.9 92.9 50% 91.7 93.0 93.0 93.0 Efficiency (%) 75% 94.5 93.4 93.4 93.4 94.5 93.4 100% 93.4 93.4 0.42 25% 0.48 0.48 0.44 50% 0.74 0.73 0.70 0.68 Power Factor 75% 0.82 0.83 0.80 0.79

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

0.86

Bearing type : 6314 C3 6212 Z C3 Max. traction : 1990 lb Sealing : Without Without Max. compression : 2966 lb

0.85

sealing : Without Without | Max. compression : 2966 lb Bearing Seal | Bearing Seal

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

Notes

USABLE @208V 155A SF 1.15 SFA 179A

100%

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.

0.85

0.84

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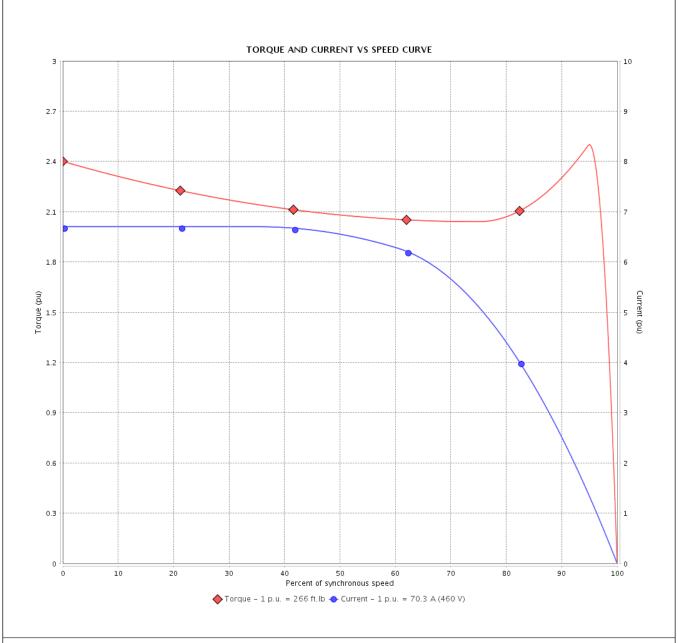
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270420

Catalog #: 06012OT3E404JP-W40



Performance : 230/460 V 60 Hz 6P Rated current : 141/70.3 A Moment of inertia (J) : 29.4 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 266 ft.lb : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K

Rated speed : 1185 rpm Design : B

Locked rotor time : 28s (cold) 16s (hot)

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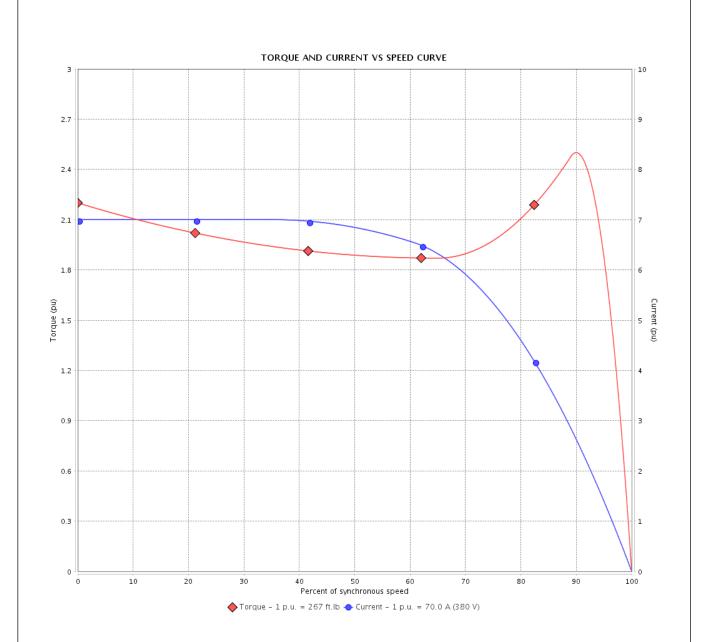
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06012OT3E404JP-W40

Customer Product line : W40 JP Pump NEMA Premium Product code: 14270420 Efficiency Three-Phase

Catalog #:



Performance : 380 V 50 Hz 6P IE3 Rated current : 70.0 A Moment of inertia (J) : 29.4 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 267 ft.lb : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Locked rotor time : 27s (cold) 15s (hot)

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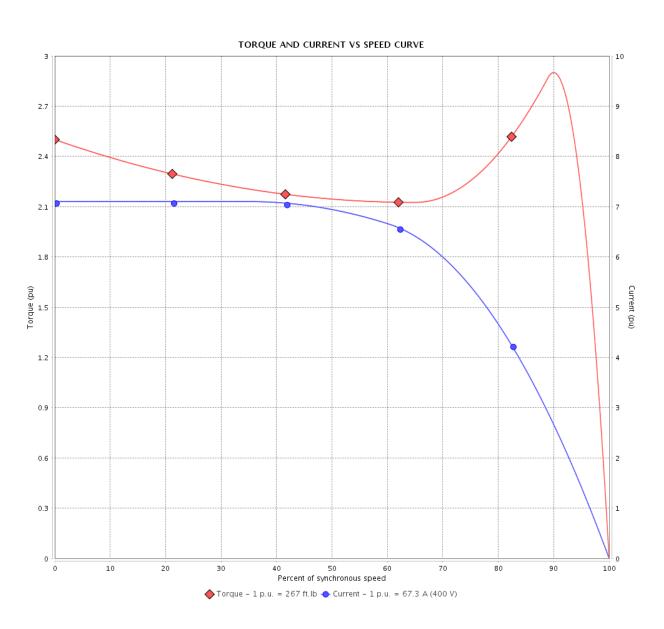
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270420

Catalog #: 06012OT3E404JP-W40



Performance : 400 V 50 Hz 6P IE3 Rated current : 67.3 A Moment of inertia (J) : 29.4 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 267 ft.lb : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 985 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 JP Pump NEMA Premium Product code: 14270420 Efficiency Three-Phase Catalog #: 06012OT3E404JP-W40 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 267 ft.lb ◆ Current - 1 p.u. = 65.6 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 65.6 A Moment of inertia (J) : 29.4 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : 267 ft.lb Insulation class Rated torque : F Locked rotor torque : 280 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Locked rotor time : 28s (cold) 16s (hot) Date Rev. Performed Checked **Changes Summary**

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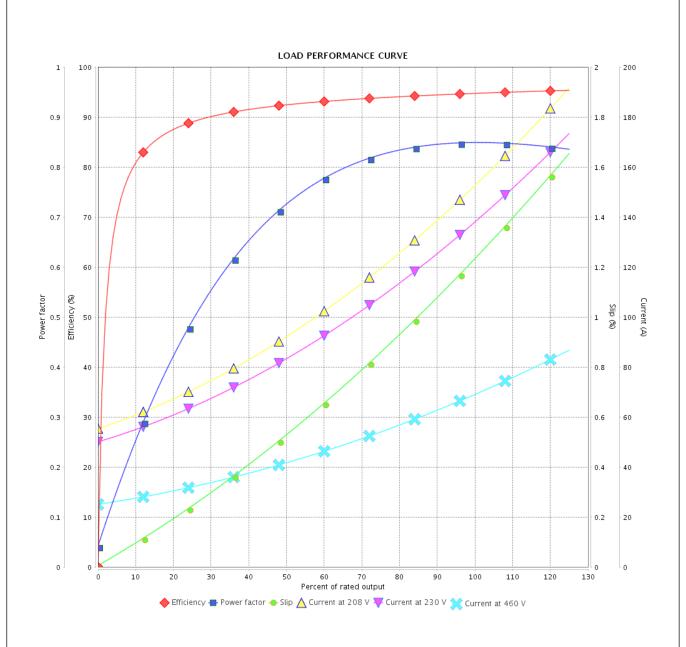
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270420

Catalog #: 06012OT3E404JP-W40



Performance : 230/460 V 60 Hz 6P : 141/70.3 A Rated current Moment of inertia (J) : 29.4 sq.ft.lb **LRC** Duty cycle : 6.7 : Cont.(S1) Insulation class Rated torque : 266 ft.lb : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

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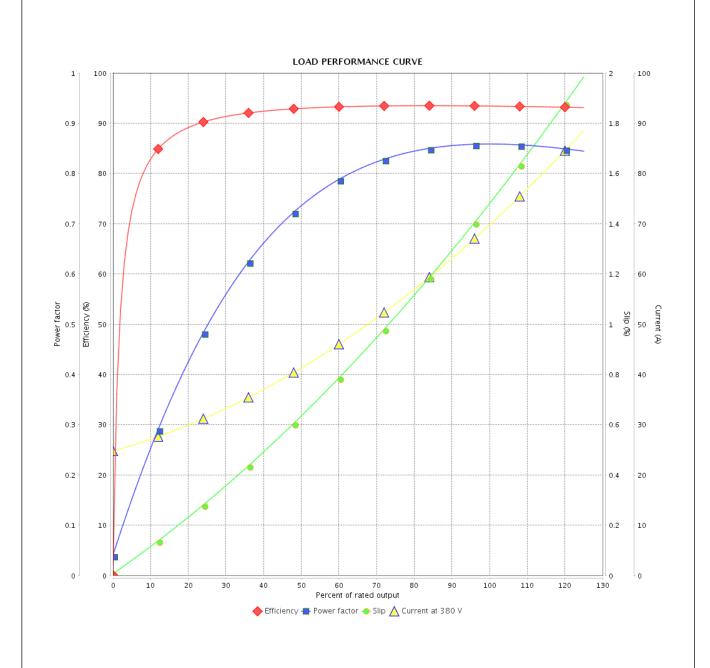
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Efficiency Three-Phase

Product code: 14270420

Catalog # : 06012OT3E404JP-W40

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Performance	: 380 V 50 Hz 6P IE3				
Rated current	: 70.0 A	Moment o	finertia (J)	: 29.4 sq.ft.lb	
LRC	: 7.0	Duty cycle		: Cont.(S1)	
Rated torque	: 267 ft.lb	Insulation	class	: F	
Locked rotor torque	: 220 %	Service factor		: 1.00	
Breakdown torque	: 250 %	Temperature rise Design		: 80 K	
Rated speed	: 985 rpm			: B	
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Efficiency Three-Phase

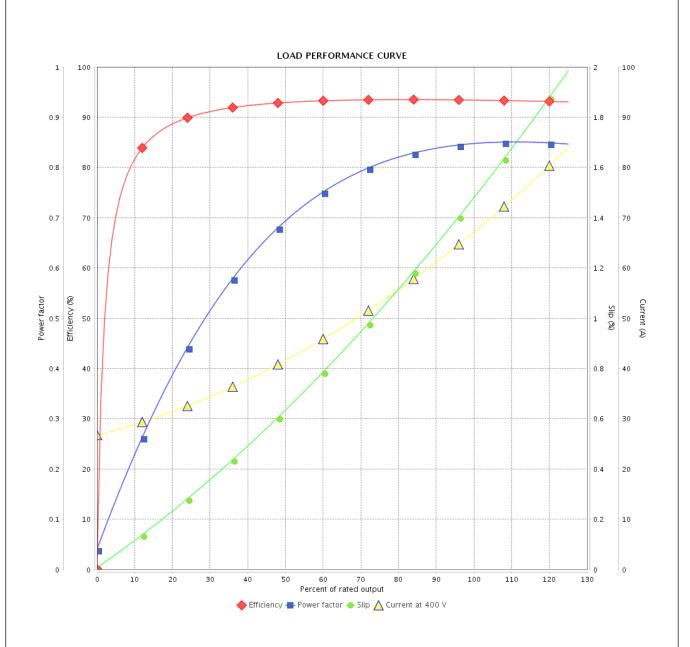
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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: Cont.(S1) class : F ctor : 1.00		
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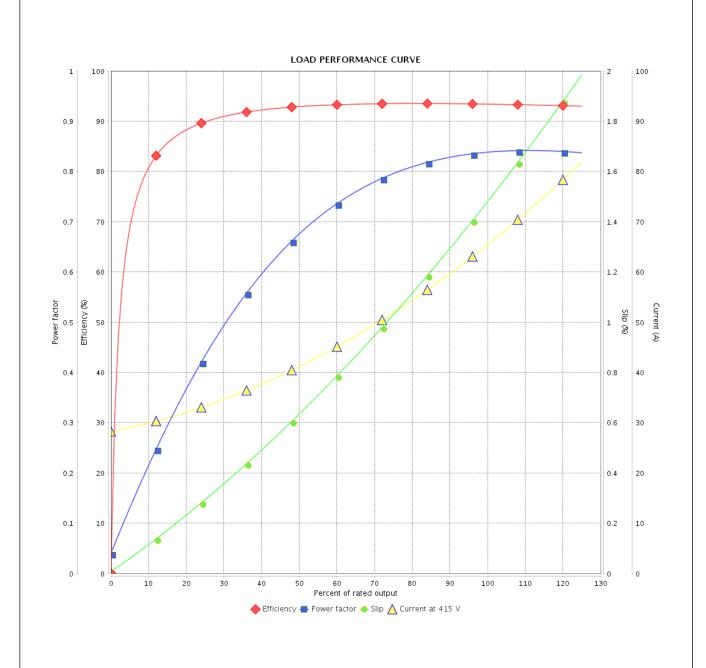
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270420

Catalog #: 06012OT3E404JP-W40



Performance		15 V 50 Hz 6P IE3				
Rated current		5.6 A	5.6 A Moment of inertia (J)		: 29.4 sq.ft.lb	
LRC : 7		.6	Duty cycle	;	: Cont.(S1)	
Rated torque :		67 ft.lb	Insulation	class	: F	
Locked rotor torque		80 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	: 310 % Temperature rise Design		ıre rise	: 80 K	
Rated speed	: 9			Design		
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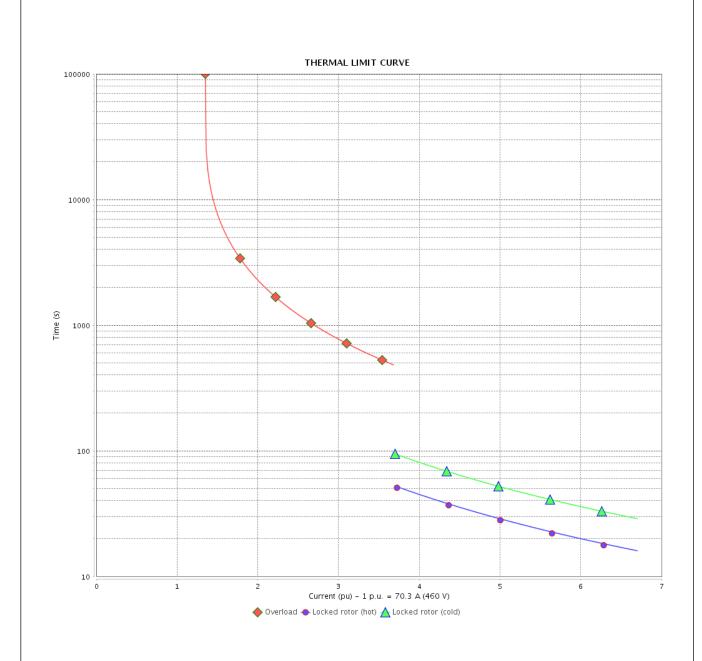


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Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14270420 06012OT3E40	04JP-W40
Performance		230/460 V 60 Hz 6P				
Rated current LRC	:	141/70.3 A 6.7	Duty cycle		: 29.4 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		266 ft.lb 240 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ie :	250 %	Temperatu		: 80 K : B	
Rated speed Heating constant		1185 rpm	Design		. D	
Cooling constant						
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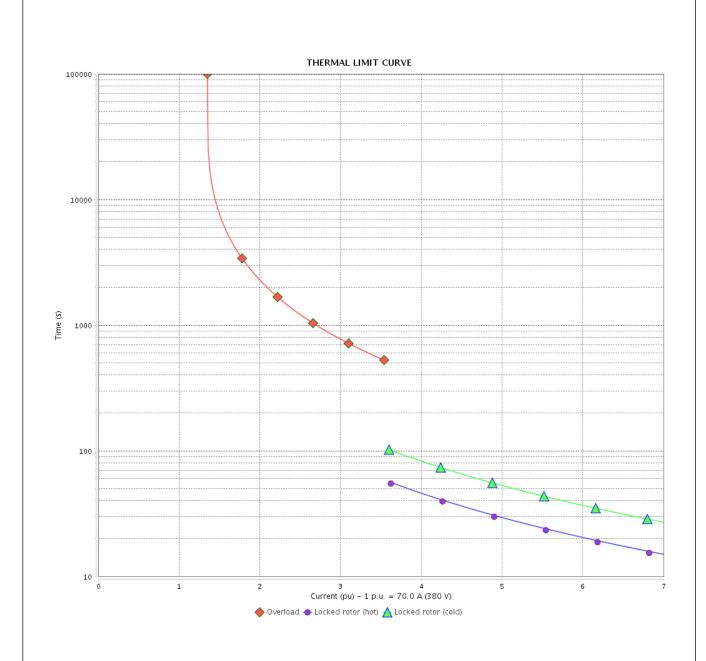


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Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase	ium	Product code :	14270420	
		·	(Catalog # :	06012OT3E40	04JP-W40
Performance		380 V 50 Hz 6P IE3				
Rated current		70.0 A	Moment of	f inertia (J)	: 29.4 sq.ft.lb	
LRC	:	7.0	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torc		267 ft.lb 220 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		250 %	Temperatu		: 80 K	
Rated speed		985 rpm	Design		: B	
Heating constant	t					
Cooling constant	<u> </u>		Т			
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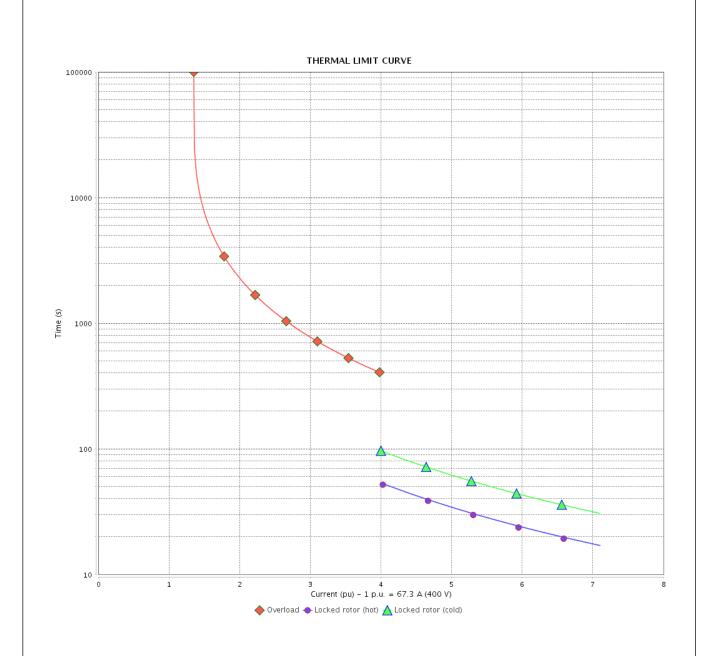


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14270420 06012OT3E40	04JP-W40
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Performance		: 400 V 50 Hz 6P IE3				
Rated current LRC	:	: 67.3 A : 7.1	Duty cycle		: 29.4 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 267 ft.lb : 250 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue :	: 290 %	Temperati		: 80 K	
Rated speed		: 985 rpm	Design		: B	
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Cooling constant	t	Changes Summary		Performed	Checked	Date
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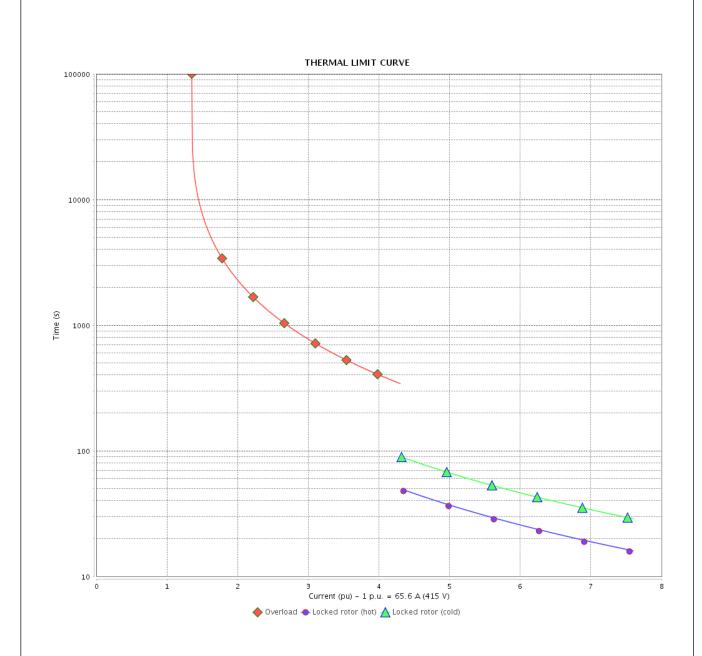


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14270420 06012OT3E40	04JP-W40
Performance		415 V 50 Hz 6P IE3				
Rated current LRC	:	65.6 A 7.6	Duty cycle		: 29.4 sq.ft.lb : Cont.(S1)	
Rated torque		267 ft.lb	Insulation		: F : 1.00	
Locked rotor tord Breakdown torqu		280 % 310 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		985 rpm	Design		: B	
Heating constant						
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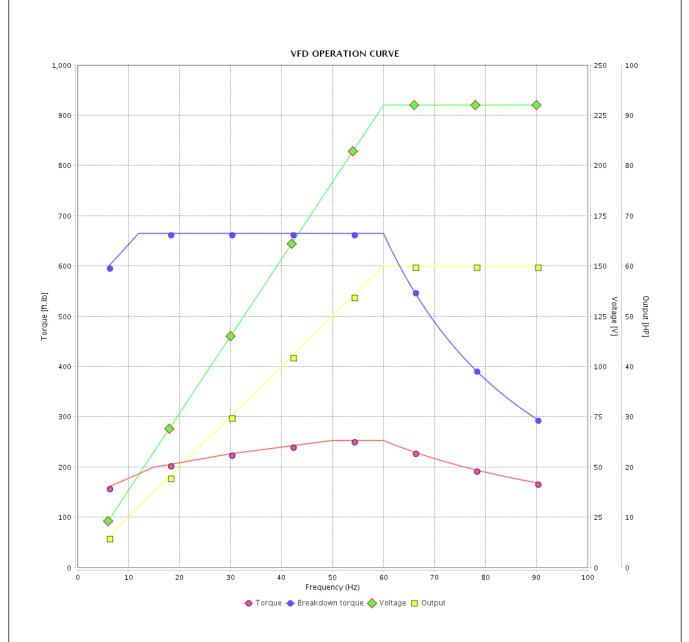
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270420

Catalog #: 06012OT3E404JP-W40

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Performance : 230/460 V 60 Hz 6P : 141/70.3 A Rated current Moment of inertia (J) : 29.4 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.7 Insulation class Rated torque : 266 ft.lb : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage



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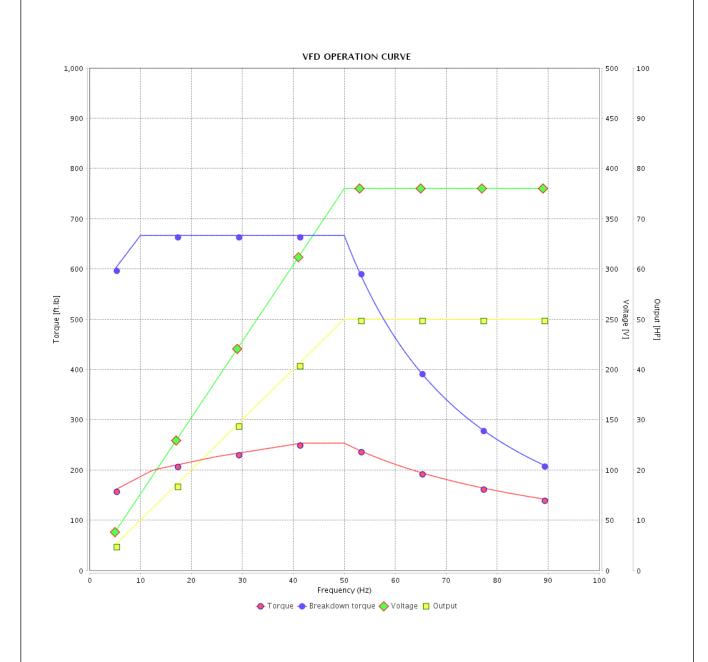
Product line : W40 JP Pump NEMA Premium

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Performance	: 380 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 70.0 A : 7.0 : 267 ft.lb : 220 % : 250 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 29.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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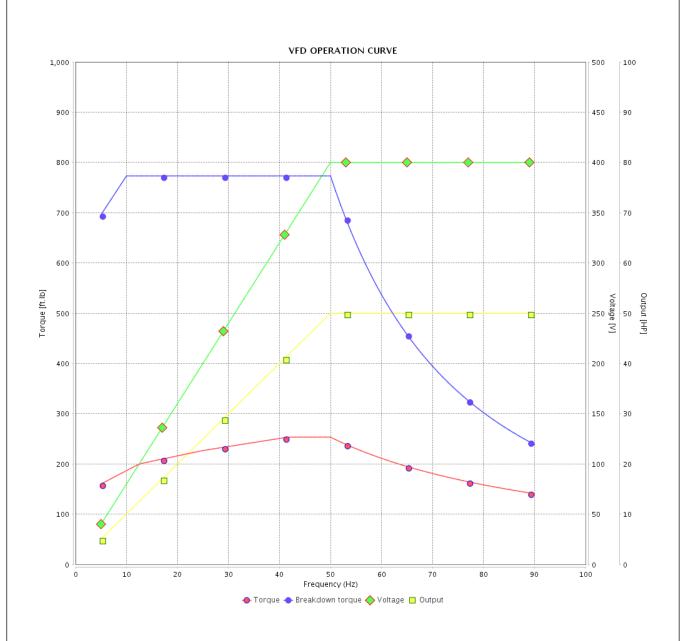
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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 67.3 A : 7.1 : 267 ft.lb : 250 % : 290 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 29.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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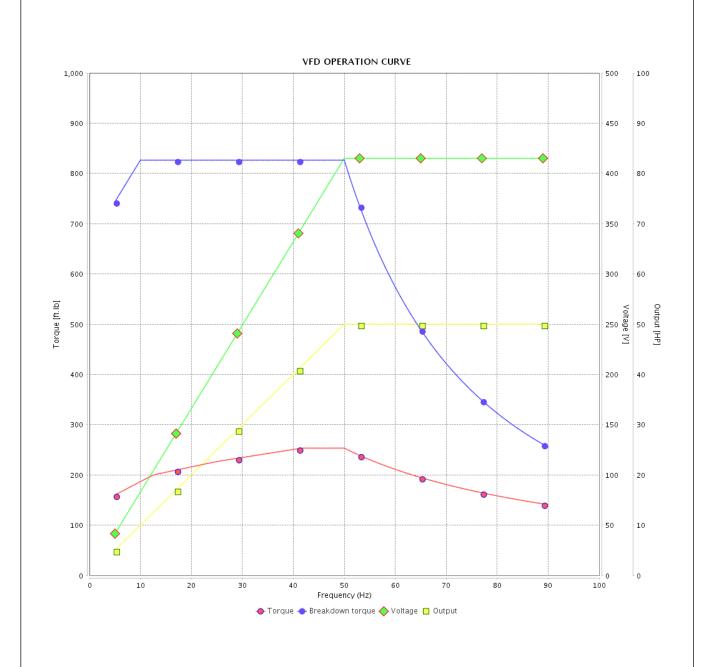
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Performance		: 415 V 50 Hz 6P IE3					
Rated current		65.6 A	Moment o	Moment of inertia (J)			
LRC :		7.6	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque ::		267 ft.lb	Insulation	Insulation class			
Locked rotor torque ::		280 %	Service fa	Service factor		: 1.00	
Breakdown torque	: :3	310 %	Temperature rise		: 80 K		
Rated speed	: 9	: 985 rpm Design			: B		
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