DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270424

Catalog #: 07512OT3E405JP-W40

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

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) : -20°C to +40°C Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 1008 lb Altitude Protection degree : IP23 Moment of inertia (J) : 31.6 sq.ft.lb

Protection degree		: IP23	Moment of Inc	ertia (J) : 31.6	sq.π.pz
Design		: B			
Output [HP]		75	60	60	60
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		172/85.9	84.8	81.6	79.5
L. R. Amperes [A]		1151/576	585	571	596
LRC [A]		6.7x(Code G)	6.9x(Code H)	7.0x(Code H)	7.5x(Code J)
No load current [A]	60.0/30.0	29.6	32.1	34.2
Rated speed [RPN	Rated speed [RPM]		985	985	985
Slip [%]		1.25	1.50	1.50	1.50
Rated torque [ft.lb]		332	320	320	320
Locked rotor torque [%]		240	220	250	270
Breakdown torque	Breakdown torque [%]		250	280	300
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	0 K 80 K	
Locked rotor time		19s (cold) 11s (hot)	18s (cold) 10s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)
Noise level ²		68.0 dB(A)			
	25%	94.0	93.2	93.2	93.2
Efficiency (%)	50%	94.1	93.3	93.3	93.3
Liliciency (70)	75%	94.5	93.7	93.7	93.7
	100%	94.5	93.7	93.7	93.7
	25%	0.47	0.49	0.45	0.42
Power Factor	50%	0.72	0.75	0.71	0.68
1 OWCI I actor	75%	0.81	0.83	0.81	0.79
	100%	0.85	0.86	0.85	0.84

Drive end Non drive end Foundation loads

6314 C3 Bearing type 6212 Z C3 Max. traction : 2374 lb Without Sealing Without Max. compression : 3382 lb

Bearing Seal Bearing Seal 20000 h 20000 h Lubrication interval

Lubricant amount 13 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 190A SF 1.15 SFA 218A

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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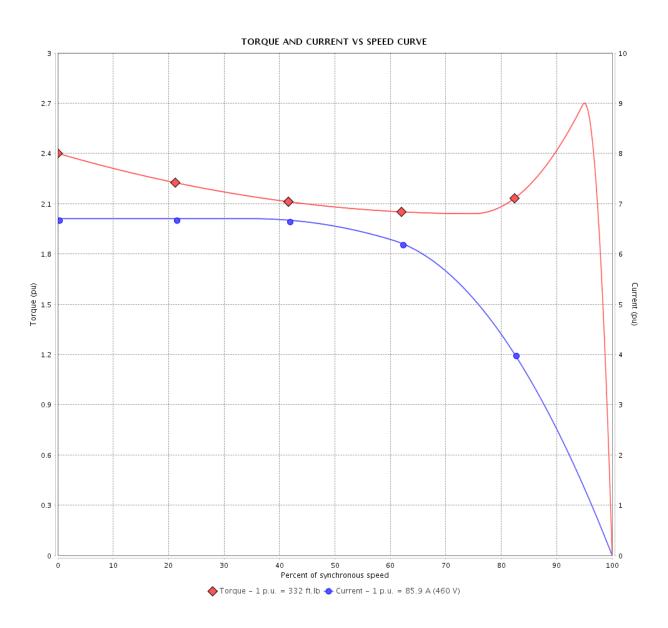
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270424

Catalog #: 07512OT3E405JP-W40



Performance : 230/460 V 60 Hz 6P Rated current : 172/85.9 A Moment of inertia (J) : 31.6 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 332 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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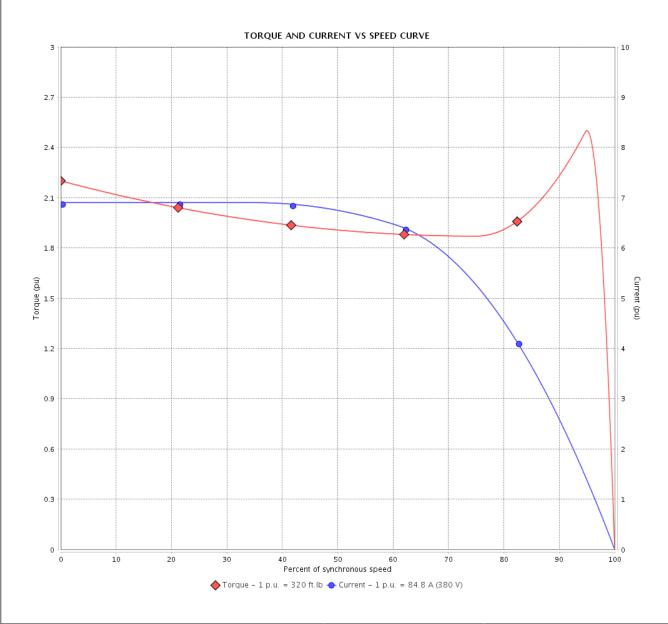
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270424

Catalog #: 07512OT3E405JP-W40



Performance : 380 V 50 Hz 6P IE3 Rated current : 84.8 A Moment of inertia (J) : 31.6 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : 320 ft.lb Insulation class Rated torque : F : 220 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 250 % Temperature rise : B Rated speed : 985 rpm Design

Locked rotor time : 18s (cold) 10s (hot)

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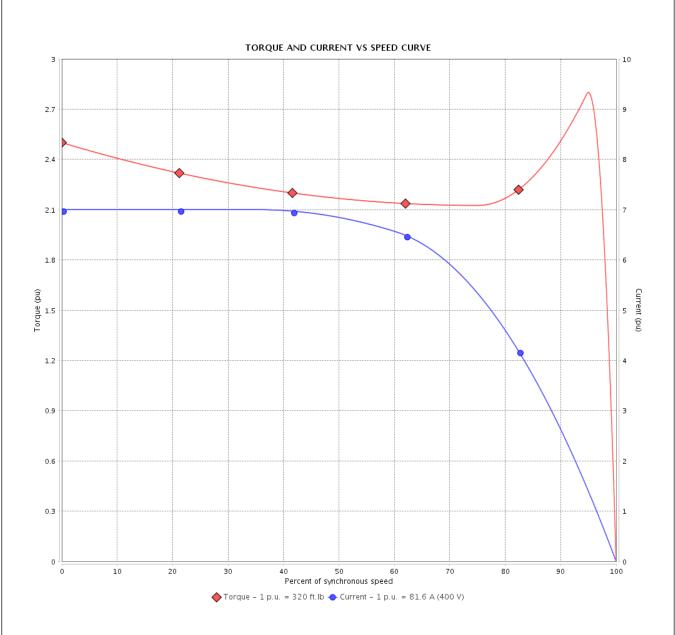
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270424

Catalog #: 07512OT3E405JP-W40



Performance : 400 V 50 Hz 6P IE3 Rated current : 81.6 A Moment of inertia (J) : 31.6 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 320 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 250 % : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 985 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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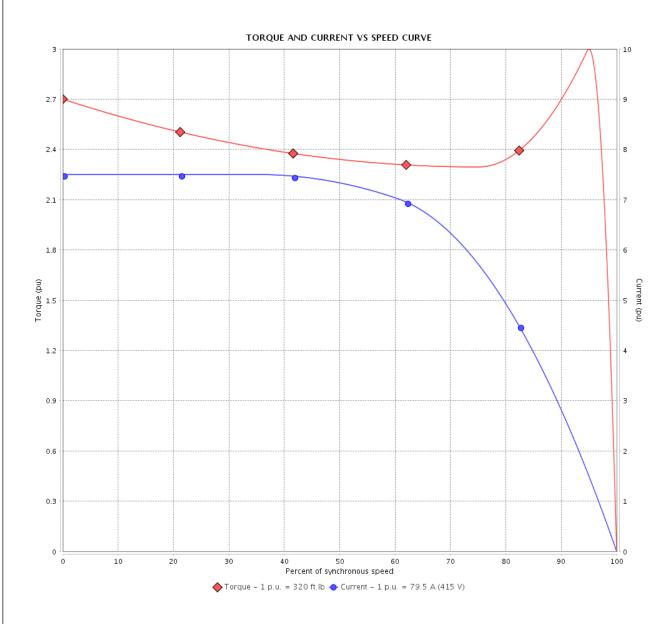


Customer :

Product line : W40 JP Pump NEMA Premium Product code : 14270424

Efficiency Three-Phase

Catalog #: 07512OT3E405JP-W40



Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 79.5 A	Moment of inertia (J)	: 31.6 sq.ft.lb	
LRC	: 7.5	Duty cycle	: Cont.(S1)	
Rated torque	: 320 ft.lb	Insulation class	: F	
Locked rotor torque	: 270 %	Service factor	: 1.00	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	

Locked rotor time : 19s (cold) 11s (hot)

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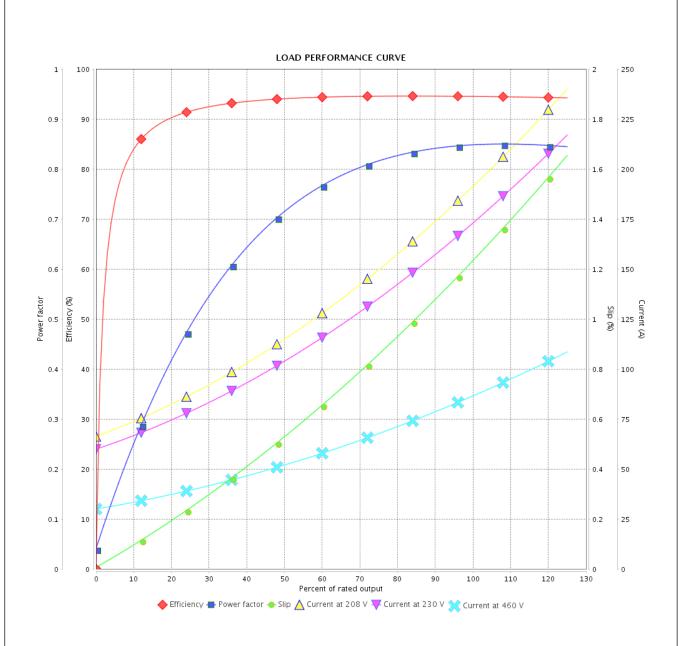
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270424

Catalog #: 07512OT3E405JP-W40



Performance : 230/460 V 60 Hz 6P : 172/85.9 A Rated current Moment of inertia (J) : 31.6 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 332 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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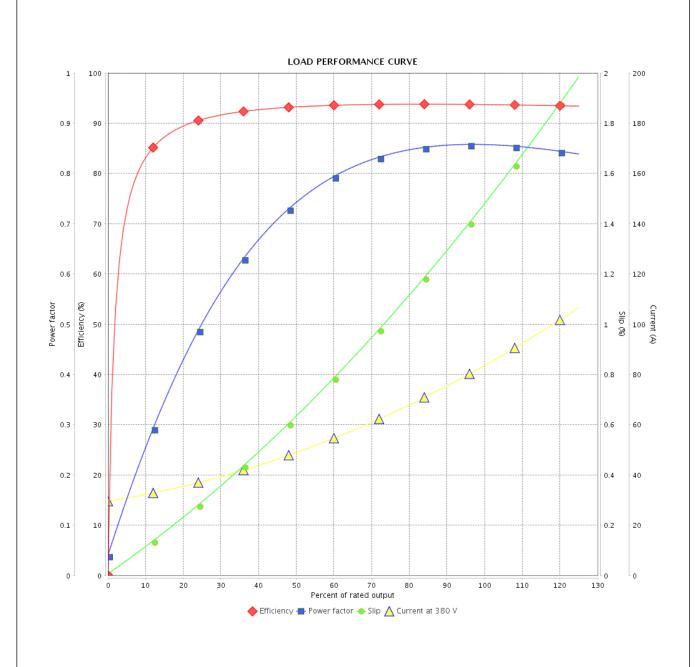
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270424

Catalog #: 07512OT3E405JP-W40



5 (·			
Performance	: 3	80 V 50 Hz 6P IE3	,			
Rated current	: 8	4.8 A	Moment o	f inertia (J)	: 31.6 sq.ft.lb	
LRC	: 6	5.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	20 ft.lb	Insulation	class	: F	
Locked rotor torqu	ıe : 2	20 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	250 %	Temperature rise		: 80 K	
Rated speed	: 9	185 rpm	Design		: B	
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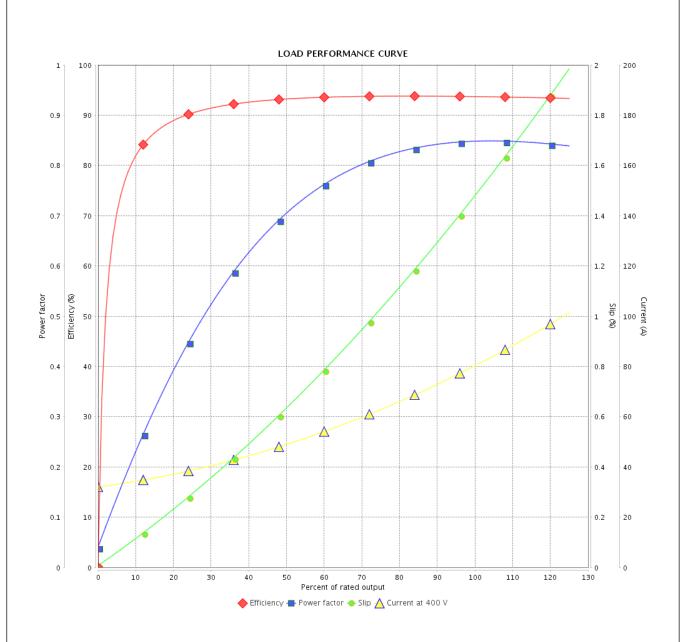
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270424

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Performance	: 400 V 50 Hz 6P IE3				
Rated current	: 81.6 A	Moment o	f inertia (J)	: 31.6 sq.ft.lb	
LRC	: 7.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 320 ft.lb	Insulation	class	: F	
Locked rotor torque	: 250 %	Service factor		: 1.00	
Breakdown torque	: 280 %	Temperature rise		: 80 K	
Rated speed	: 985 rpm	Design		: B	
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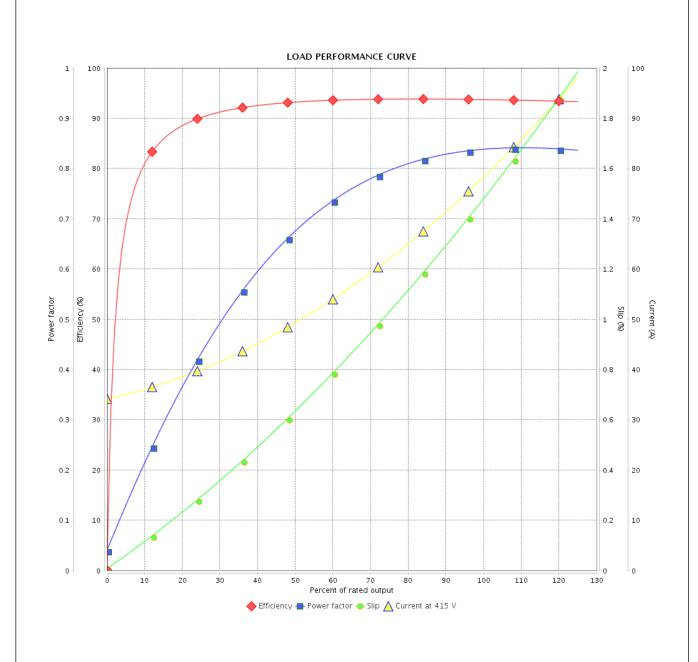
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270424

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Performance	: 415 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 79.5 A : 7.5 : 320 ft.lb : 270 % : 300 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 31.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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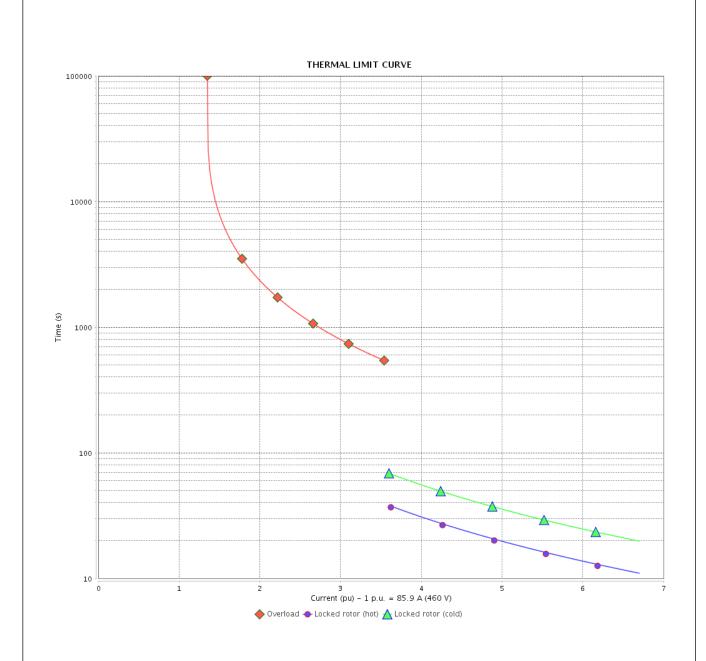


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Product line		. WAO ID D NEMA D		Design de la companya	4.4070.404	
Froduct line		: W40 JP Pump NEMA Prem Efficiency Three-Phase	llum	Product code :	14270424	
		,		Catalog # :	07512OT3E4	05JP-W40
Performance		230/460 V 60 Hz 6P				
Rated current LRC		172/85.9 A 6.7	Moment of Duty cycle	of inertia (J)	: 31.6 sq.ft.lb	
Rated torque		332 ft.lb	Insulation		: Cont.(S1) : F	
Locked rotor torc	jue :	240 %	Service fa	ctor	: 1.25	
Breakdown torqu		270 %	Temperati	ure rise	: 80 K	
Rated speed		1185 rpm	Design		: B	
Heating constant						
Cooling constant	•					
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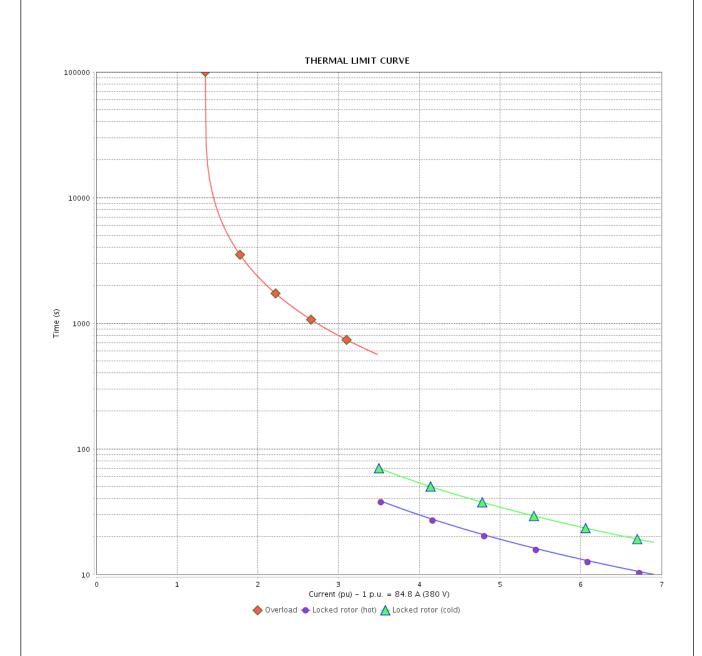


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Product line	: \ E1	N40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14270424 07512OT3E4	05JP-W40
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 84 : 6. : 32 ue : 25 e : 28 : 98	30 V 50 Hz 6P IE3 4.8 A 9 20 ft.lb 20 % 50 % 35 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 31.6 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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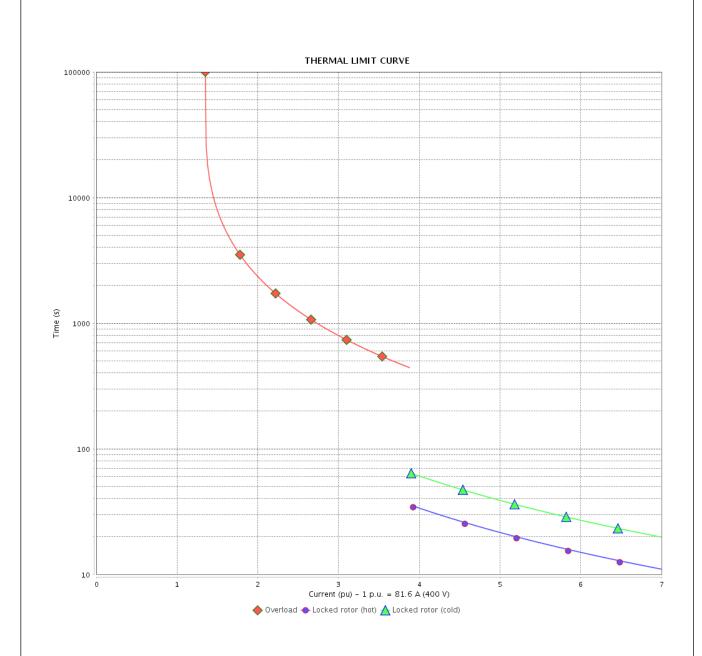


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14270424 075120T3E40	05JP-W40
Performance	:	: 400 V 50 Hz 6P IE3				
Rated current LRC	:	: 81.6 A : 7.0	Duty cycle		: 31.6 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 320 ft.lb : 250 %	Insulation Service fa		: F : 1.00	
Breakdown torqu Rated speed	ue :	: 280 % : 985 rpm	Temperatu Design		: 80 K : B	
Heating constan						
Cooling constant	L	Changes Summary		Performed	Checked	Date
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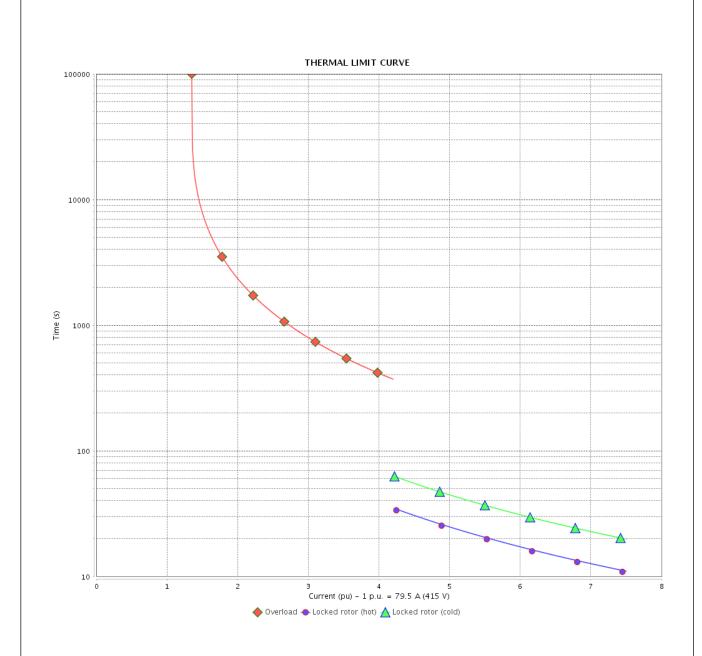


Customer	:				,	
Product line	: \ E:	W40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14270424	OF ID 14/40
				Catalog # :	07512OT3E40	JOJE-4440
Performance	· 1	15 V 50 Hz 6P IE3				
Rated current	: 79	9.5 A	Moment of	f inertia (J)	: 31.6 sq.ft.lb	
LRC Rated torque	: 7. · 3:	5 20 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torq	ue : 27	70 %	Service fac	ctor	: 1.00	
Breakdown torqu Rated speed		00 % 35 rpm	Temperatu Design	re rise	: 80 K : B	
Heating constant		· P ····			· -	
Cooling constant						
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

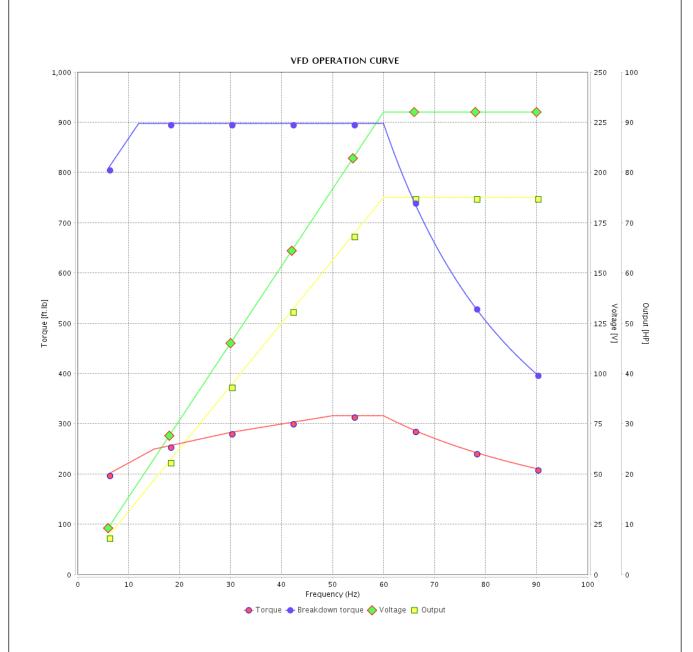
Product code: 14270424

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Performance : 230/460 V 60 Hz 6P : 172/85.9 A Rated current Moment of inertia (J) : 31.6 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 332 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

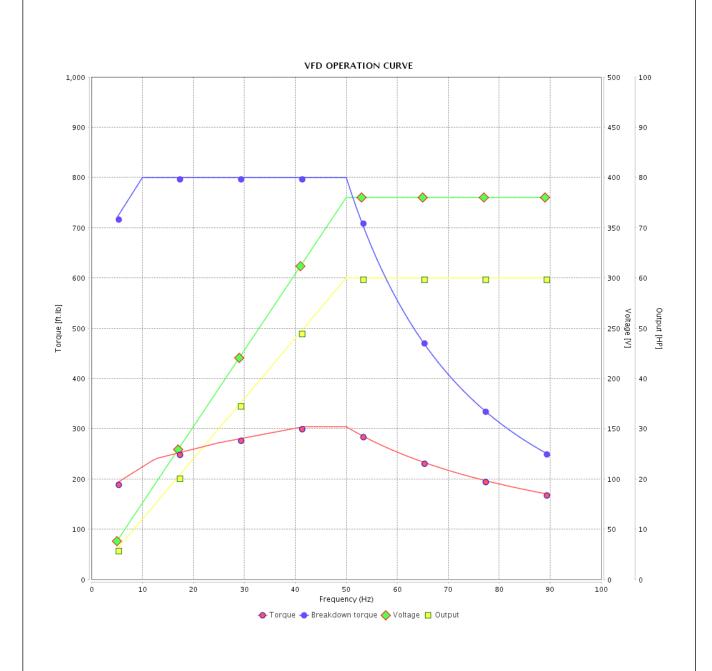
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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 84.8 A : 6.9 : 320 ft.lb : 220 % : 250 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 31.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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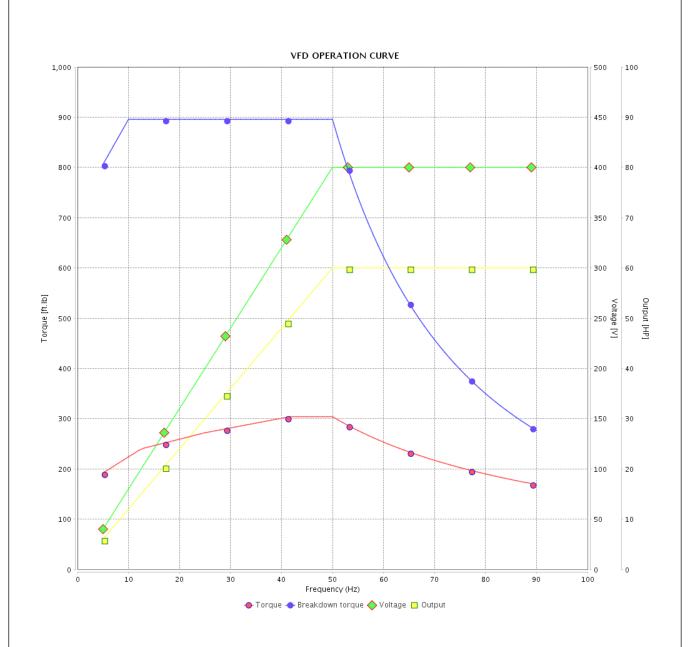
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270424

Catalog #: 07512OT3E405JP-W40

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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 81.6 A : 7.0 : 320 ft.lb : 250 % : 280 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 31.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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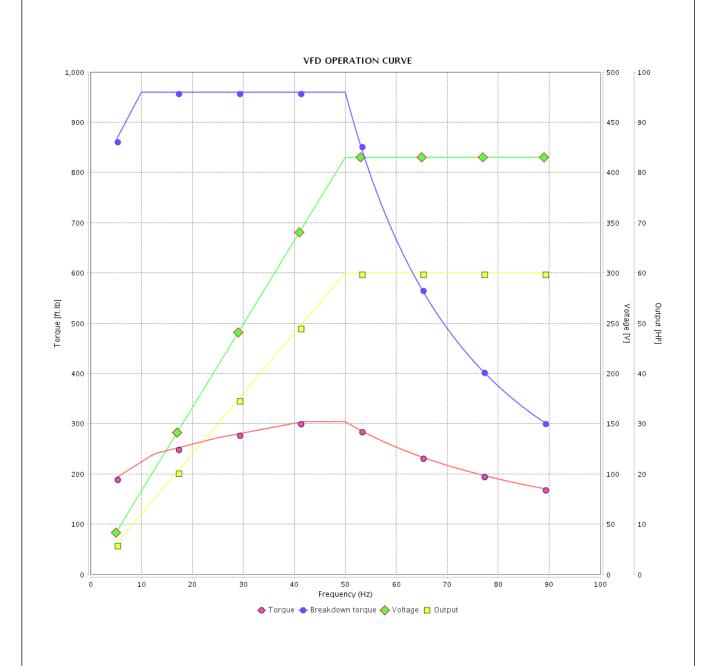
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

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Catalog #: 07512OT3E405JP-W40



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current : 7		9.5 A	Moment o	Moment of inertia (J)		
LRC	: 7.	.5	Duty cycle	!	: Cont.(S1)	
Rated torque	: 3:	20 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	70 %	Service fa	ctor	: 1.00	
Breakdown torque :		00 %	Temperati	Temperature rise		
Rated speed	: 98	85 rpm	Design		: B	
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