DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270422

Catalog #: 06018OT3G364JP-W40

Frame : 364/5JP

Insulation class

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

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

Cooling method : IC01 - ODP

Mounting : F-1

Rotation¹ : Both (CW and CCW)

Starting method : Direct On Line Approx. weight³ : 785 lb

Moment of inertia (J) : 15.6 sq.ft.lb

Design		: B			·
Output [HP]		60	50	50	50
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		69.9	69.6	66.9	65.3
L. R. Amperes [A]		454	473	482	457
LRC [A]		6.5x(Code G)	6.8x(Code G)	7.2x(Code H)	7.0x(Code H)
No load current [A]	24.7	24.4	26.2	27.7
Rated speed [RPI	/ 1]	1780	1480	1480	1485
Slip [%]		1.11	1.33	1.33	1.00
Rated torque [ft.lb]		177	177	77 177	
Locked rotor torque [%]		200	200	220	240
Breakdown torque	[%]	240	229	250	270
Service factor		1.25	1.00		
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		34s (cold) 19s (hot)	32s (cold) 18s (hot)	30s (cold) 17s (hot)	28s (cold) 16s (hot)
Noise level ²		69.0 dB(A)			
	25%	94.4	93.4	93.4	93.4
Efficiency (%)	50%	94.5	93.5	93.5	93.5
Liliciericy (70)	75%	95.0	93.9	93.9	93.9
	100%	95.0	93.9	93.9	93.9
	25%	0.48	0.49	0.45	0.42
Power Factor	50%	0.73	0.74	0.71	0.68
1 OWELL ACTOR	75%	0.82	0.83	0.81	0.79
	100%	0.85	0.86	0.85	0.84

Drive end Non drive end

6314 C3 Bearing type 6212 Z C3 Without Sealing Without

Bearing Seal Bearing Seal

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

Foundation loads

Max. traction : 1243 lb Max. compression : 2028 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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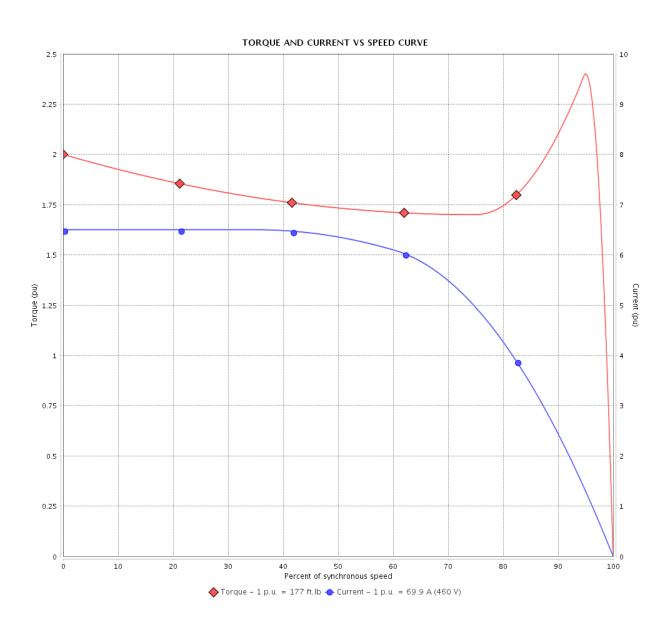
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270422

Catalog #: 06018OT3G364JP-W40



Performance : 460 V 60 Hz 4P Rated current : 69.9 A Moment of inertia (J) : 15.6 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

Locked rotor time : 34s (cold) 19s (hot)

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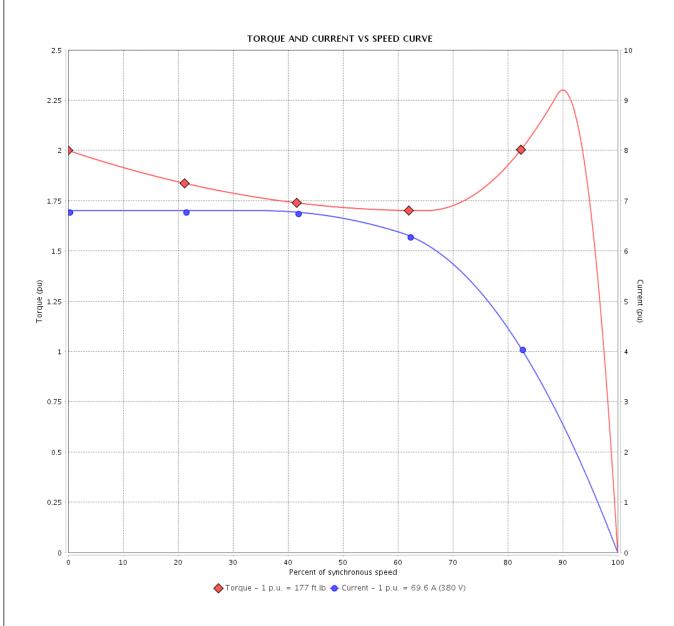
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270422

Catalog #: 06018OT3G364JP-W40



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 69.6 A	Moment of inertia (J)	: 15.6 sq.ft.lb	
LRC	: 6.8	Duty cycle	: Cont.(S1)	
Rated torque	: 177 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	
Locked rotor time	: 32s (cold) 18s (hot)			

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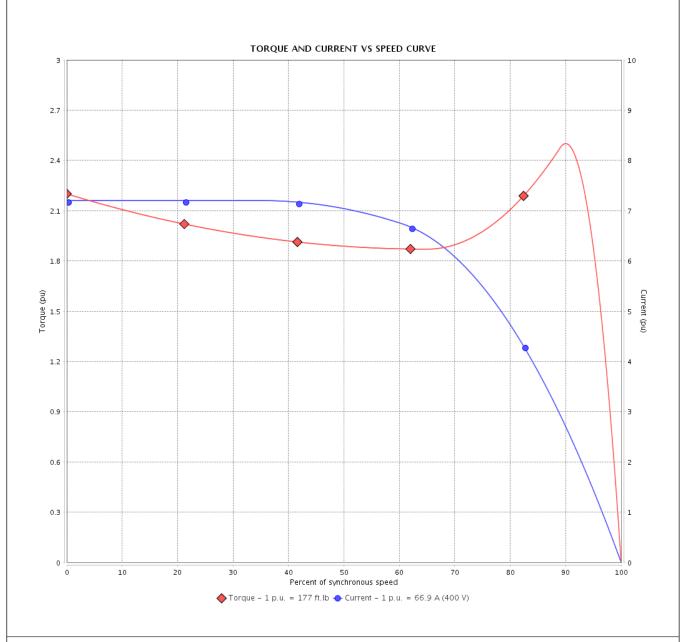
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270422

Catalog #: 06018OT3G364JP-W40



Performance : 400 V 50 Hz 4P IE3 Rated current : 66.9 A Moment of inertia (J) : 15.6 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed

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

: 1480 rpm

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Design

: B



Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 JP Pump NEMA Premium Product code: 14270422 Efficiency Three-Phase Catalog #: 06018OT3G364JP-W40 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) Current 1.2 0.6 0.3 40 50 -Percent of synchronous speed ◆ Torque - 1 p.u. = 177 ft.lb ◆ Current - 1 p.u. = 65.3 A (415 V) : 415 V 50 Hz 4P IE3 Performance Rated current : 65.3 A Moment of inertia (J) : 15.6 sq.ft.lb LRC : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 177 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00

		0 % 85 rpm			· ·			
Locked rotor time	: 2	8s (cold) 16s (hot)						
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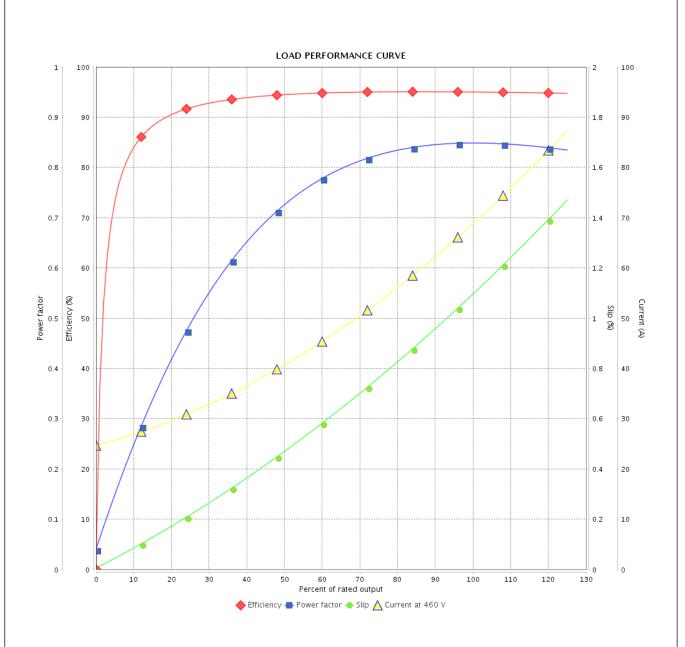
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270422

Catalog #: 06018OT3G364JP-W40

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Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 69.9 A : 6.5 : 177 ft.lb : 200 % : 240 % : 1780 rpm	Duty cycle Insulation class Service factor Temperature rise		: 15.6 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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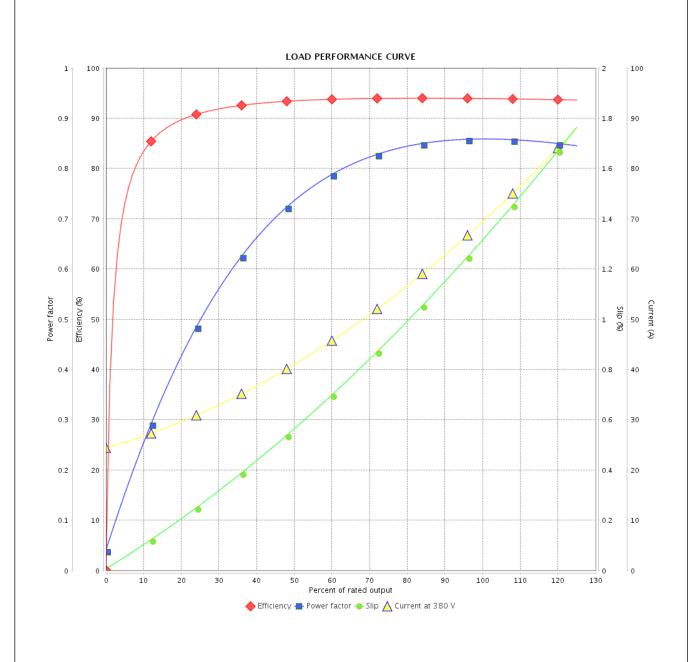
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Efficiency Three-Phase

Product code: 14270422

Catalog #: 06018OT3G364JP-W40

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Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 69.6 A : 6.8 : 177 ft.lb : 200 % : 229 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 15.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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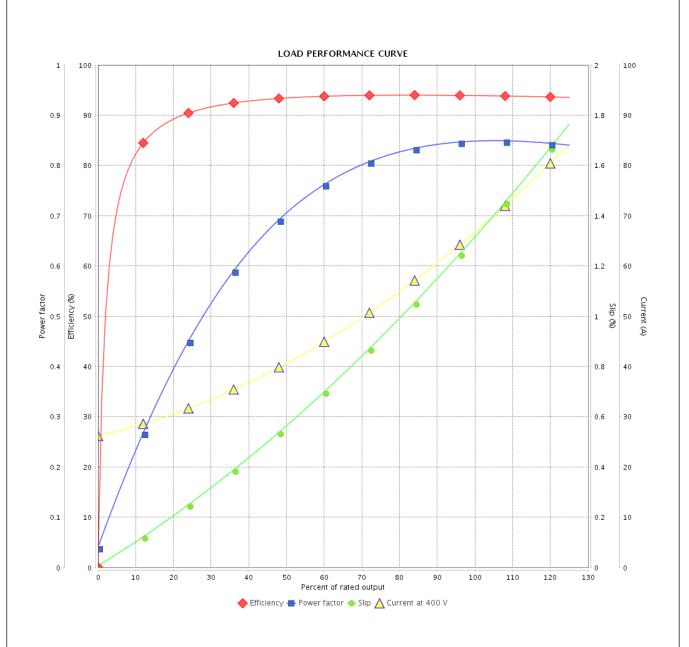
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270422

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Performance	: 400 V 50 Hz 4P IE3	1		
Rated current : 66.9 A		Moment of inertia (J)	: 15.6 sq.ft.lb	
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 177 ft.lb	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	
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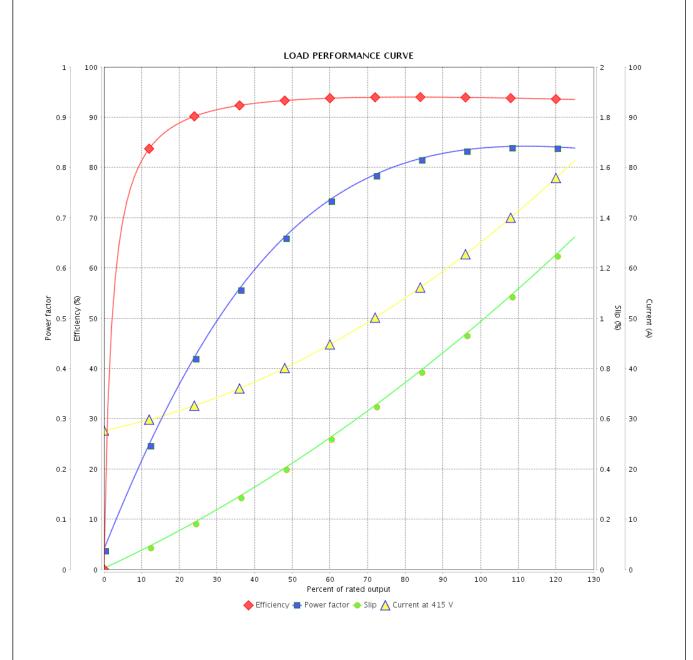
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270422

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque	: 7.0 Duty cycle		Duty cycle		
Locked rotor torque Breakdown torque Rated speed	: 240 % : 270 % : 1485 rpm	Service factor Temperature rise Design		: 1.00 : 80 K : B	
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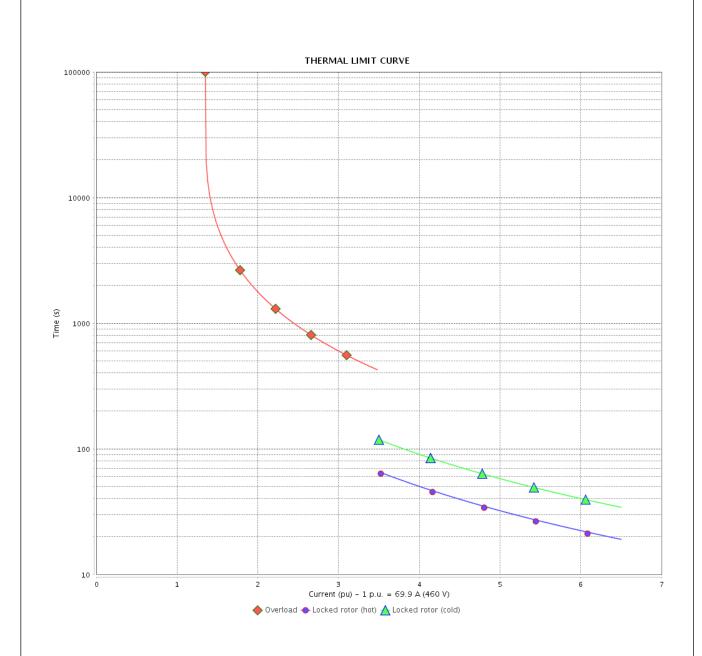


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Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase	lium	Product code :	14270422	
		, , , , , , , , , , , , , , , , , , , ,		Catalog # :	06018OT3G3	64JP-W40
Performance		460 V 60 Hz 4P	l			
Rated current LRC		69.9 A 6.5	Moment of Duty cycle	f inertia (J)	: 15.6 sq.ft.lb : Cont.(S1)	
Rated torque	:	177 ft.lb	Insulation	class	: F	
Locked rotor tord		200 %	Service fa		: 1.25	
Breakdown torqu Rated speed		240 % 1780 rpm	Temperati Design	are rise	: 80 K : B	
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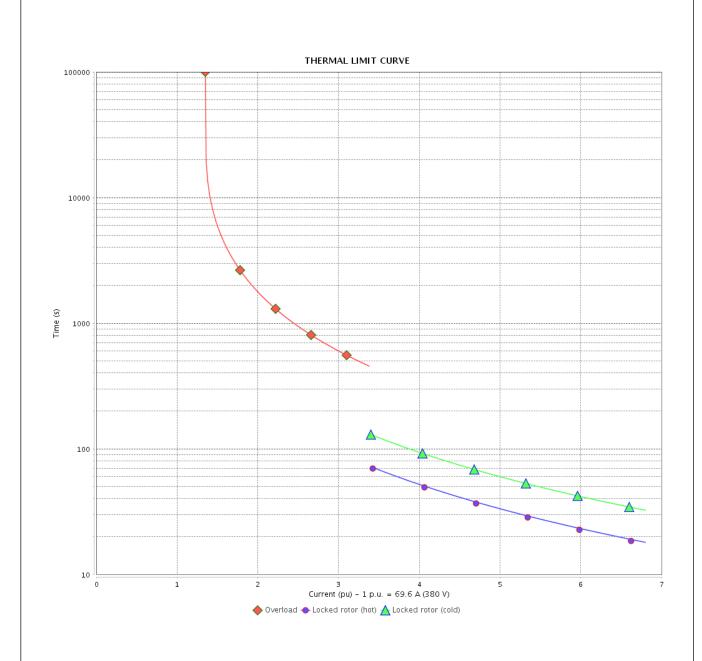


Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase Catalog #: 06018OT3G364JF	P-W40
Performance : 380 V 50 Hz 4P IE3	
Rated current : 69.6 A Moment of inertia (J) : 15.6 sq.ft.lb LRC : 6.8 Duty cycle : Cont.(S1) Rated torque : 177 ft.lb Insulation class : F	
Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K	
Rated speed : 1480 rpm Design : B	
Heating constant Cooling constant	
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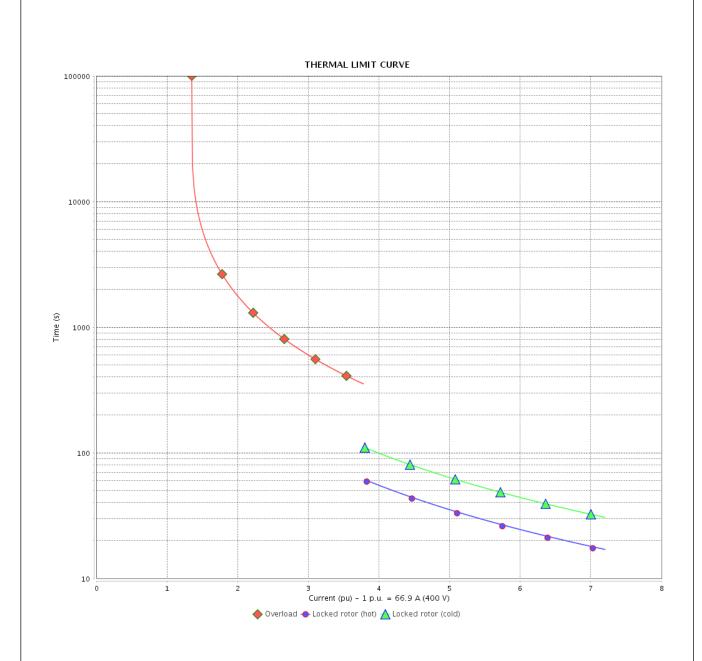


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Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code :	14270422	04 ID 1040
				Catalog # :	06018OT3G3	J.01 VV-TU
Performance	,	: 400 V 50 Hz 4P IE3				
Rated current LRC		: 66.9 A : 7.2	Moment of Duty cycle	of inertia (J)	: 15.6 sq.ft.lb : Cont.(S1)	
Rated torque		: 177 ft.lb	Insulation	class	: F	
Locked rotor tord		: 220 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 250 % : 1480 rpm	Temperate Design	ure rise	: 80 K : B	
Heating constan	t					
Cooling constant						
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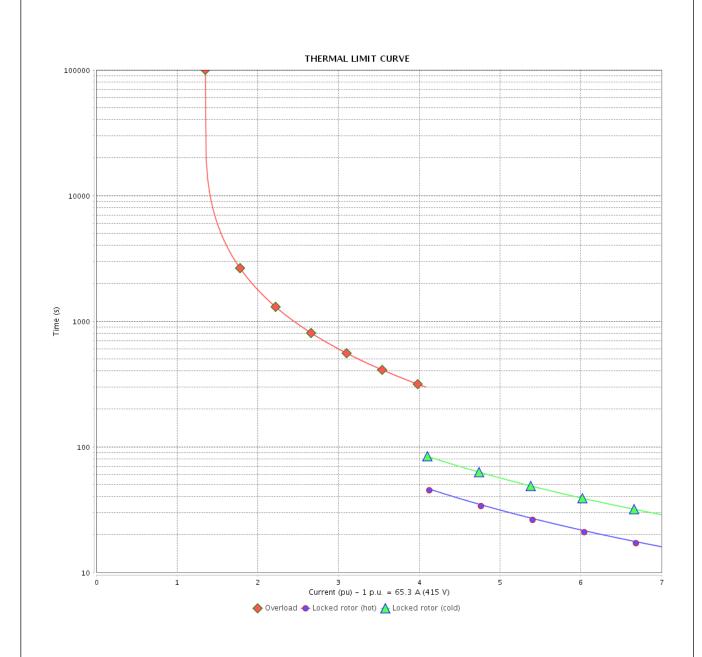


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code :	14270422	
				Catalog # :	06018OT3G3	0437-444
Performance	:	: 415 V 50 Hz 4P IE3				
Rated current LRC		: 65.3 A : 7.0	Moment of Duty cycle	f inertia (J)	: 15.6 sq.ft.lb : Cont.(S1)	
Rated torque	:	: 177 ft.lb	Insulation		: F	
Locked rotor tord		: 240 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 270 % : 1485 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constan						
Cooling constant						
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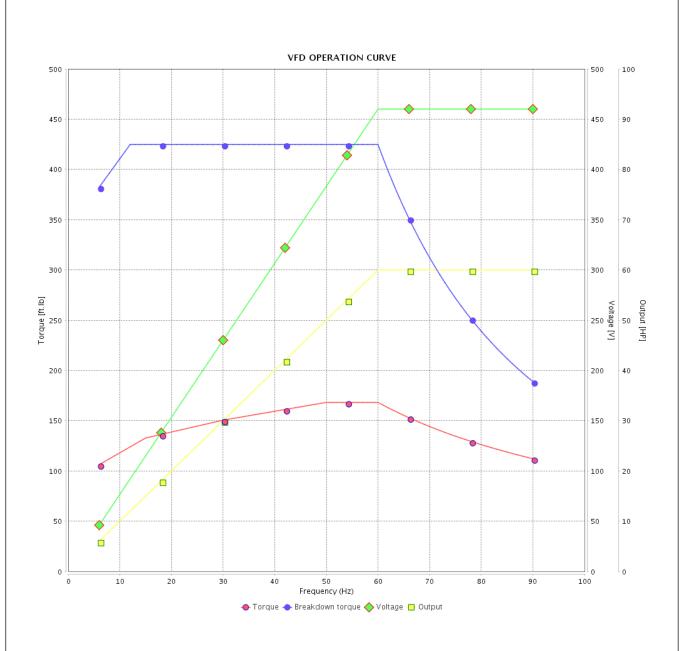
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270422

Catalog #: 06018OT3G364JP-W40



Performance : 460 V 60 Hz 4P Rated current : 69.9 A Moment of inertia (J) : 15.6 sq.ft.lb **LRC** Duty cycle : 6.5 : Cont.(S1) Insulation class : 177 ft.lb : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

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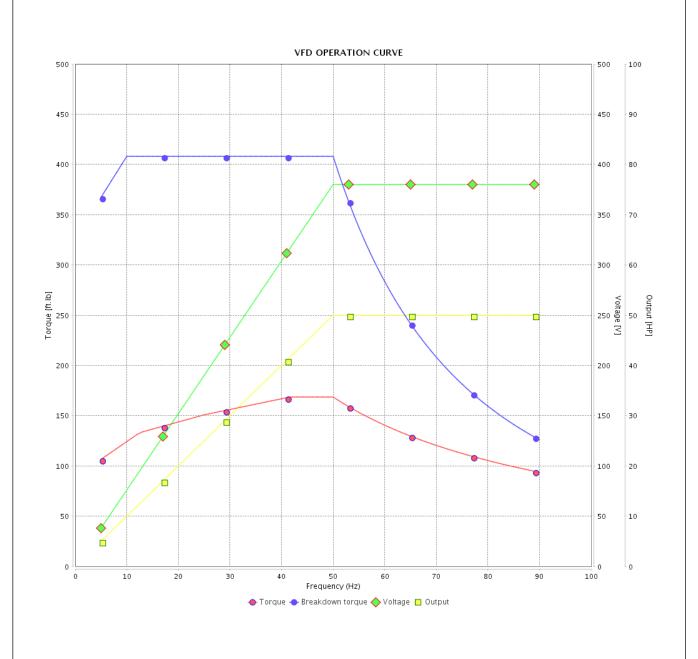
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270422

Catalog #: 06018OT3G364JP-W40



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current LRC				Moment of inertia (J)		
Rated torque						
		00 % 29 %		Service factor Temperature rise		
Rated speed		480 rpm	Design	uie iise	: 80 K : B	
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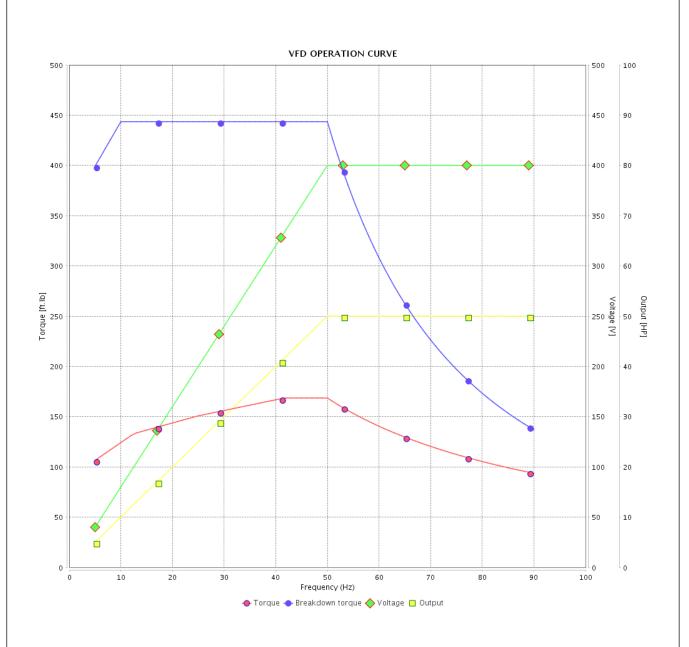
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Efficiency Three-Phase

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Dorformana	· 400 \/ 50 H= 4D IE3		·	
Performance	: 400 V 50 Hz 4P IE3			
Rated current : 66.9 A		Moment of inertia (J)	: 15.6 sq.ft.lb	
LRC	: 7.2 Duty cycle		: Cont.(S1)	
Rated torque	: 177 ft.lb	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	
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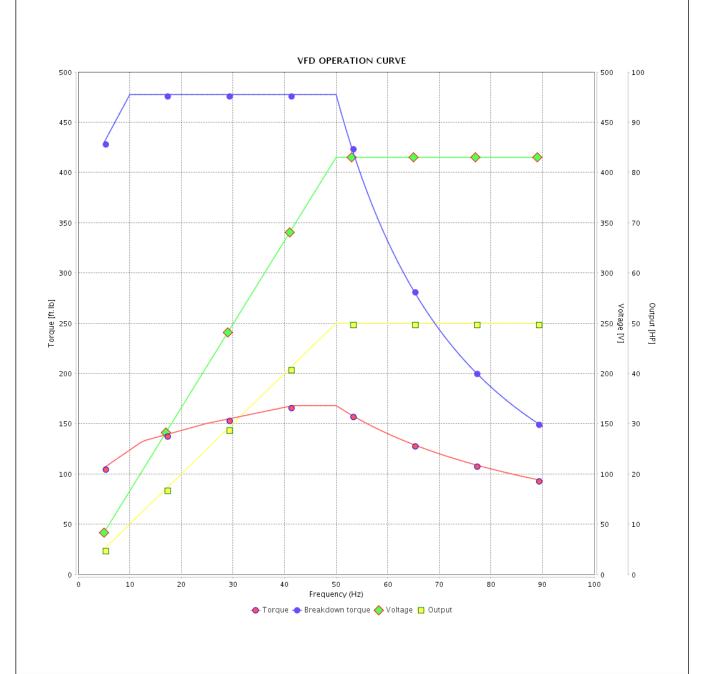
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270422

Catalog #: 06018OT3G364JP-W40



Performance	:	415 V 50 Hz 4P IE3				
Rated current		65.3 A	Moment o	Moment of inertia (J)		
LRC	:	7.0	Duty cycle		: Cont.(S1)	
Rated torque : 177 ft.lb Insulation class		class	: F			
Locked rotor tord	que :	: 240 % Service factor		: 1.00		
Breakdown torque : 270 %		270 %	Temperati	Temperature rise		
Rated speed	:	1485 rpm	Design		: B	
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