DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836783

Catalog # : 04018OT3E324JPV-W40

Frame : 324/6JP Cooling method : IC01 - ODP

Insulation class : F Mounting : W-6

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 : 465 lb

Protection degree : IP23 Moment of inertia (J) : 5.69 sq.ft.lb

Design : B Output [HP] 40 30 30 30 Poles 4 4 4 4 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 95.2/47.6 42.2 43.3 41.7 L. R. Amperes [A] 590/295 290 283 313 6.7x(Code H) 6.7x(Code H) 7.5x(Code J) LRC [A] 6.2x(Code G) No load current [A] 37.0/18.5 18.3 20.3 22.1 Rated speed [RPM] 1775 1475 1480 1480 Slip [%] 1.39 1.67 1.33 1.33 Rated torque [ft.lb] 118 107 106 106 Locked rotor torque [%] 200 229 260 280 Breakdown torque [%] 240 270 300 330 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K

Locked rotor time 23s (cold) 13s (hot) 30s (cold) 17s (hot) 30s (cold) 17s (hot) 25s (cold) 14s (hot) Noise level² 66.0 dB(A) 25% 93.5 92.4 92.5 92.4 50% 93.6 92.6 92.6 92.5 Efficiency (%) 75% 93.0 93.0 94.1 93.0 94.1 100% 93.0 93.0 93.0 0.44 25% 0.42 0.38 0.34 50% 0.70 0.59 0.68 0.63 Power Factor 75% 0.72 0.80 0.78 0.75 0.79 100% 0.84 0.83 0.81

Bearing type : 6312 Z C3 | Mon drive end | Foundation loads |
Sealing : Without | Without | Max. compression

ealing : Without Without Max. comp Bearing Seal Bearing Seal ubrication interval : 20000 h 20000 h

Lubrication interval:20000 h20000 hLubricant amount:21 g11 gLubricant type:Mobil Polyrex EM

Notes

USABLE @208V 105A SF 1.15 SFA 121A

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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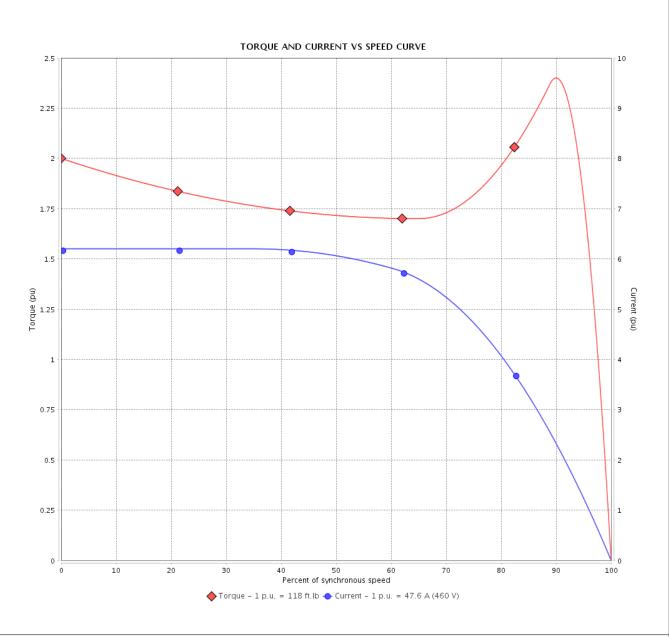
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836783

Catalog #: 04018OT3E324JPV-W40



Performance : 230/460 V 60 Hz 4P Rated current : 95.2/47.6 A Moment of inertia (J) : 5.69 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 118 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

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

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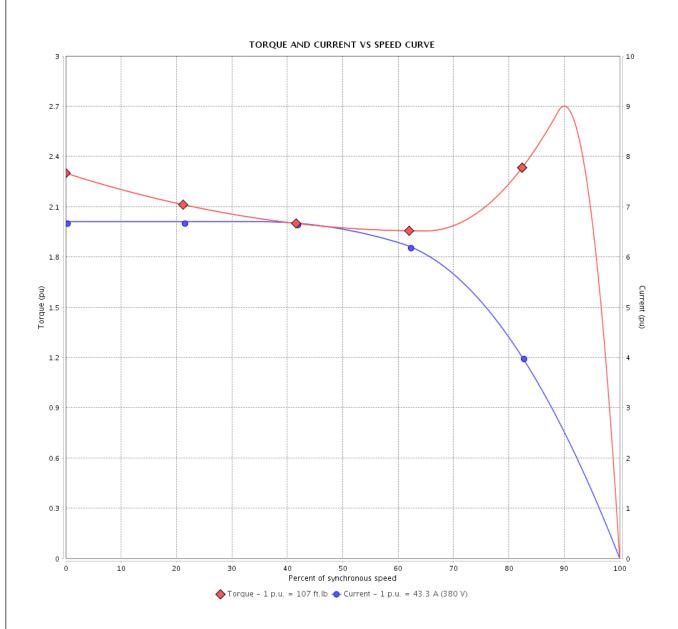
Efficiency Three-Phase

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14836783

> Catalog #: 04018OT3E324JPV-W40



Performance : 380 V 50 Hz 4P IE3 Rated current : 43.3 A Moment of inertia (J) : 5.69 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 107 ft.lb Insulation class : F Rated torque : 229 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 270 % Temperature rise : B Rated speed : 1475 rpm Design Locked rotor time : 30s (cold) 17s (hot)

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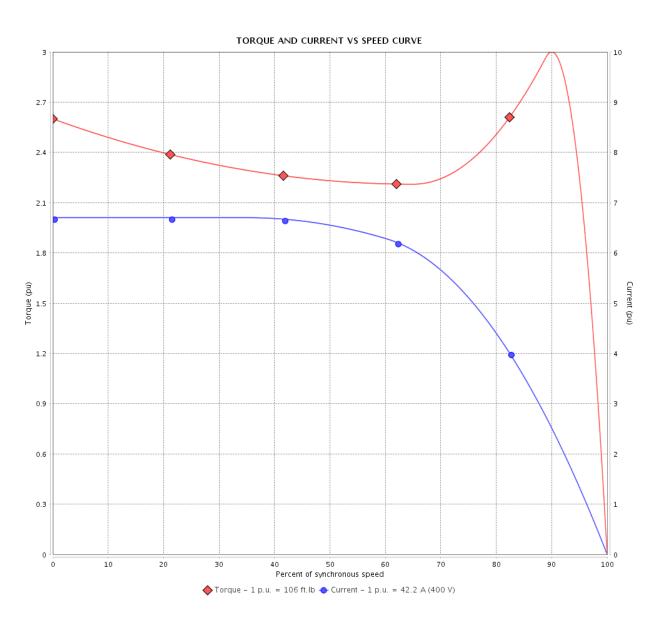
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836783

Catalog #: 04018OT3E324JPV-W40



Performance : 400 V 50 Hz 4P IE3 Rated current : 42.2 A Moment of inertia (J) : 5.69 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 106 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B

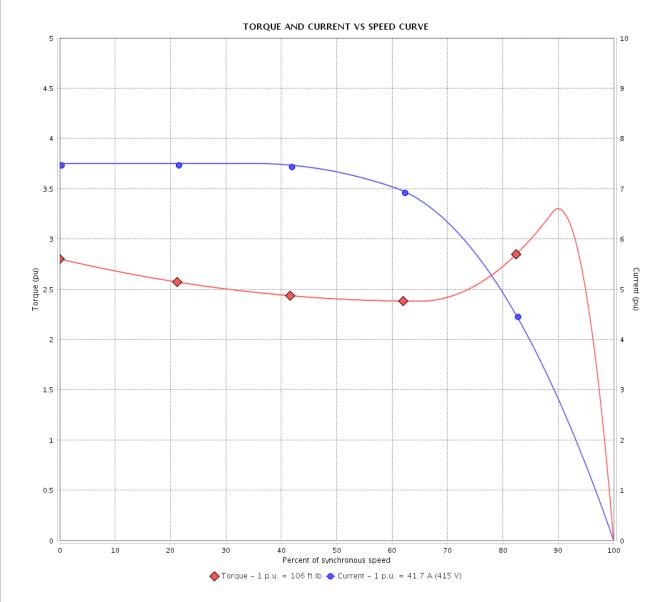
Locked rotor time : 30s (cold) 17s (hot)

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Customer Product line : W40 JP Pump NEMA Premium Product code: 14836783 Efficiency Three-Phase Catalog #: 04018OT3E324JPV-W40



Performance : 415 V 50 Hz 4P IE3 Rated current : 41.7 A Moment of inertia (J) : 5.69 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 106 ft.lb : F Locked rotor torque : 280 % Service factor : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time : 25s (cold) 14s (hot)

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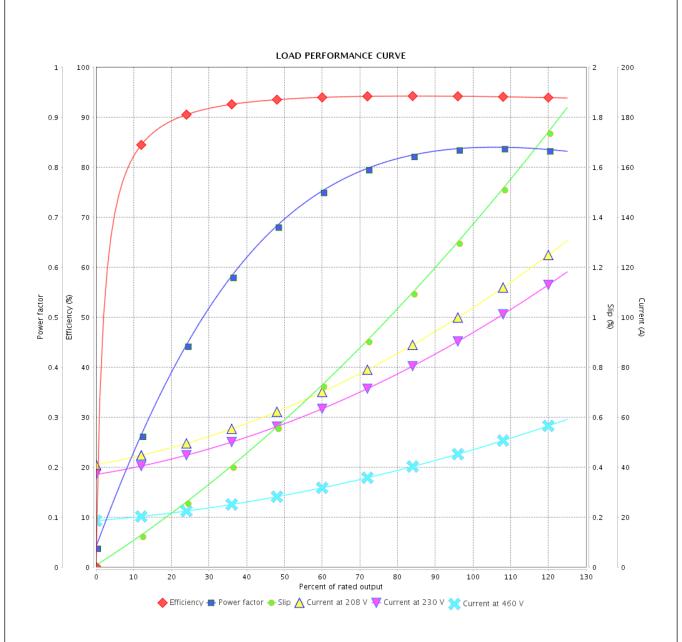
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836783

Catalog #: 04018OT3E324JPV-W40



Performance : 230/460 V 60 Hz 4P Rated current : 95.2/47.6 A Moment of inertia (J) : 5.69 sq.ft.lb **LRC** Duty cycle : 6.2 : Cont.(S1) : 118 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

Three Phase Induction Motor - Squirrel Cage



Customer

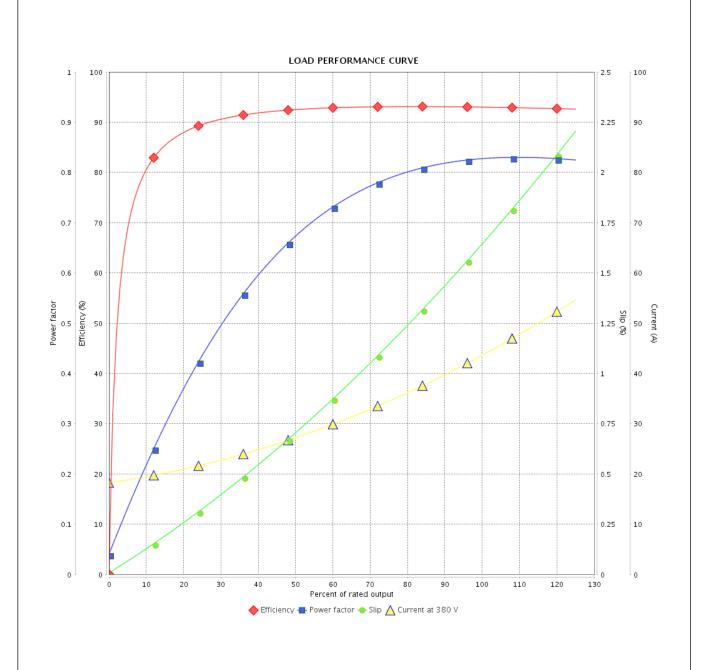
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Product code: 14836783

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 43.3 A : 6.7 : 107 ft.lb : 229 % : 270 % : 1475 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 5.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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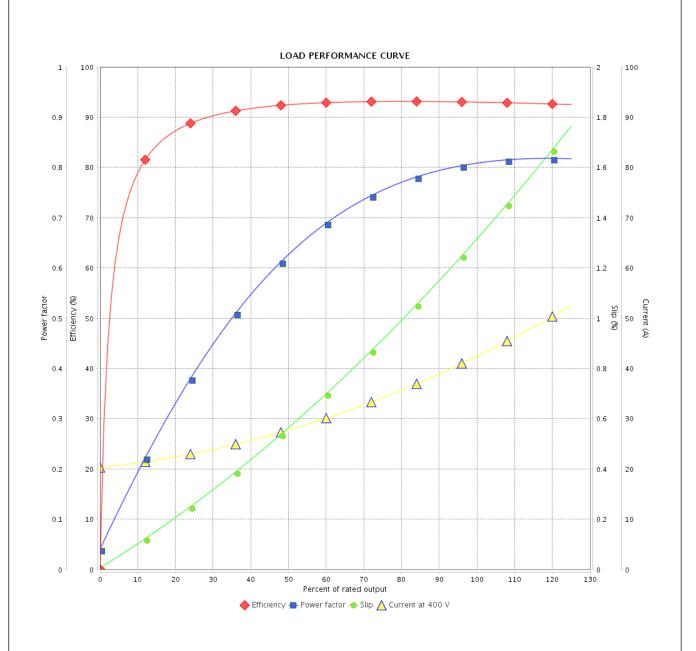
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836783

Catalog #: 04018OT3E324JPV-W40



			<u> </u>			
Performance	: 40	00 V 50 Hz 4P IE3				
Rated current	: 42	2.2 A	Moment of	of inertia (J)	: 5.69 sq.ft.lb	
LRC	: 6.	.7	Duty cycle	е	: Cont.(S1)	
Rated torque	: 10	06 ft.lb	Insulation	class	: F	
Locked rotor torc	que : 20	60 %	Service fa	actor	: 1.00	
Breakdown torqu	ie : 30	00 %	Temperat	ure rise	: 80 K	
Rated speed	: 14	480 rpm	Design		: B	
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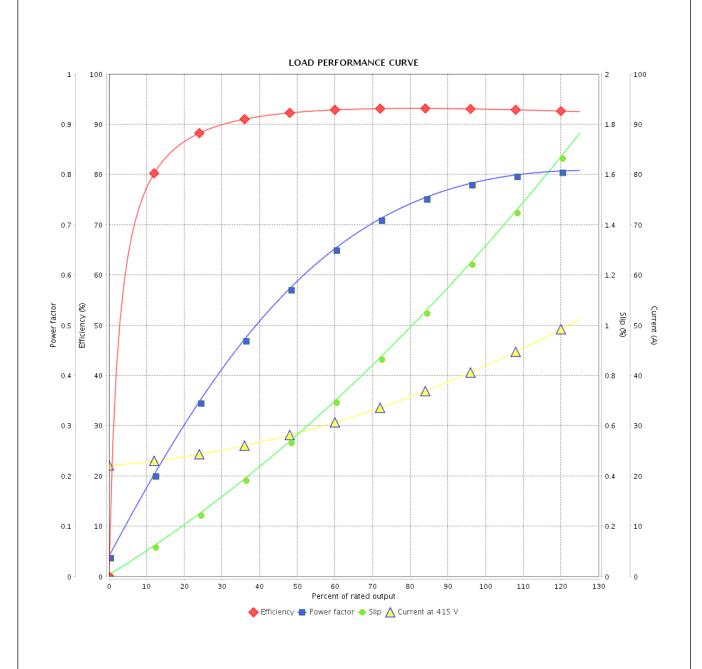
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836783

Catalog #: 04018OT3E324JPV-W40



Performance	: 4	415 V 50 Hz 4P IE3				
Rated current	: 4	41.7 A	Moment o	f inertia (J)	: 5.69 sq.ft.lb	
LRC	: 7	7.5	Duty cycle	;	: Cont.(S1)	
Rated torque	: '	106 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	280 %	Service fa	ctor	: 1.00	
Breakdown torque	::	330 %	Temperati	ıre rise	: 80 K	
Rated speed	: '	1480 rpm	Design		: B	
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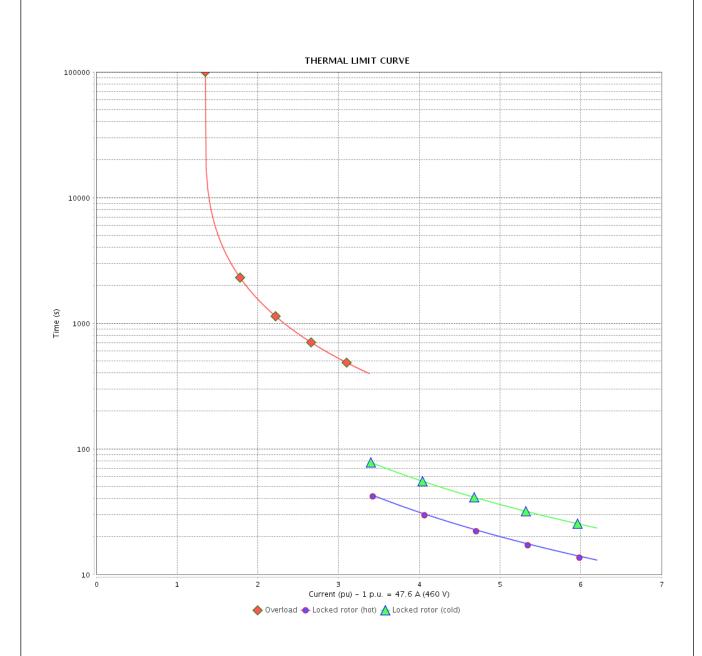


Customer	:				,	
Product line	: \ E:	N40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14836783 04018OT3E3	24JPV-W40
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 95 : 6. : 11 uue : 20 ie : 24	30/460 V 60 Hz 4P 5.2/47.6 A 2 18 ft.lb 00 % 40 % 775 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 5.69 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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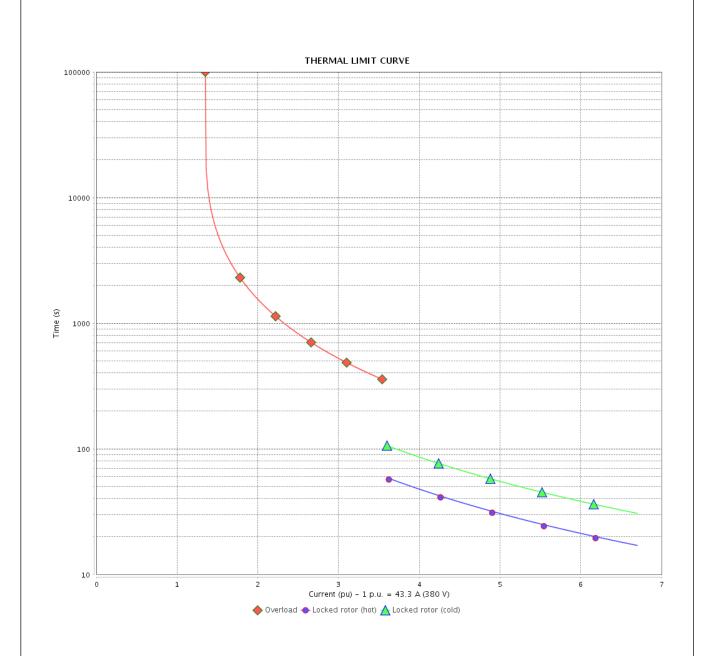


Customer	:					
Product line	:' E	W40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14836783 04018OT3E32	24JPV-W40
Performance		80 V 50 Hz 4P IE3				
Rated current LRC	: 6		Duty cycle	f inertia (J)	: 5.69 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		07 ft.lb 29 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		70 %	Temperatu		: 80 K	
Rated speed	: 1	475 rpm	Design		: B	
Heating constant Cooling constant						
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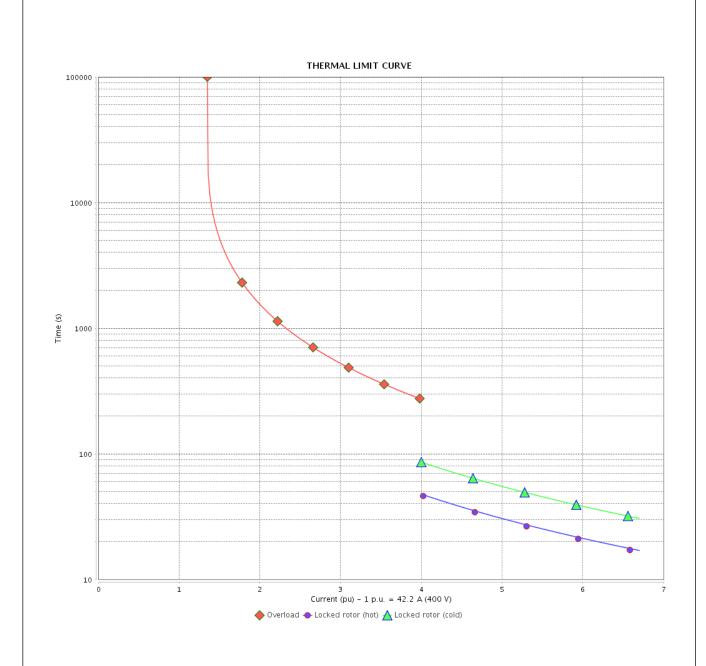


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Product line	: \ E1	N40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14836783 04018OT3E3	24JPV-W40
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 42 : 6. : 10 ue : 26 e : 30 : 14	00 V 50 Hz 4P IE3 2.2 A 7 06 ft.lb 60 % 00 % 480 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 5.69 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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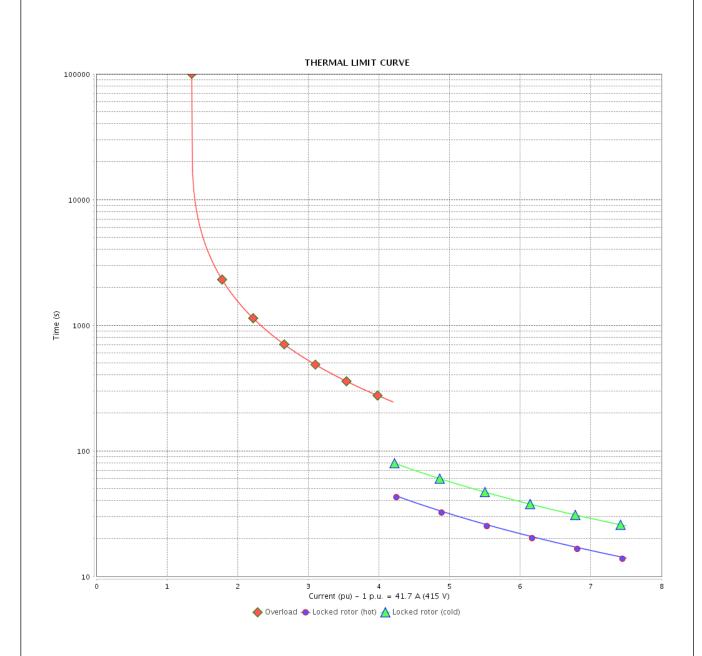


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Product line		: W40 JP Pump NEMA Premium		Product code :	14836783	
i Toddot IIIIE		Efficiency Three-Phase	iiuiii	Froduct code .	14630763	
		•		Catalog # :	04018OT3E3	24JPV-W40
Performance		415 V 50 Hz 4P IE3	Manageria	efin autin / D	. 5 00	
Rated current LRC		41.7 A 7.5	Moment of Duty cycle	of inertia (J) e	: 5.69 sq.ft.lb : Cont.(S1)	
Rated torque	:	106 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord		280 % 330 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		1480 rpm	Design	uie iise	: B	
Heating constan	 t					
Cooling constan						
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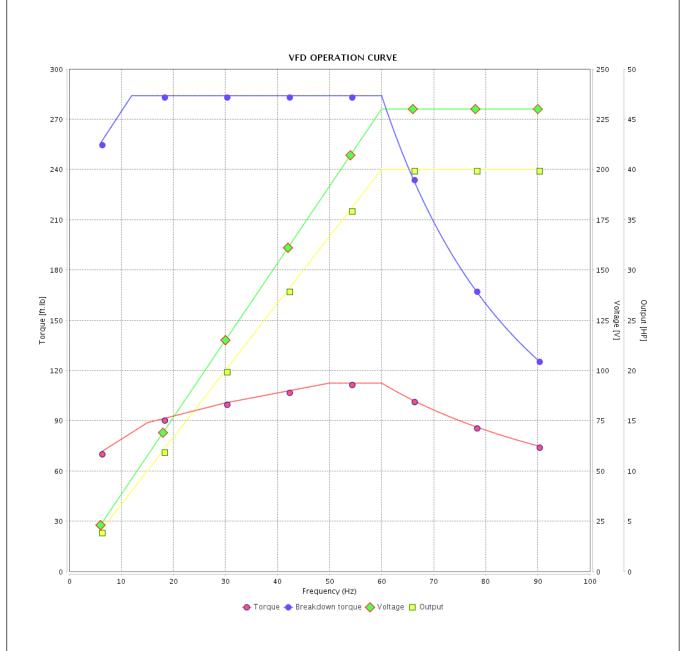
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836783

Catalog #: 04018OT3E324JPV-W40

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Performance : 230/460 V 60 Hz 4P Rated current : 95.2/47.6 A Moment of inertia (J) : 5.69 sq.ft.lb **LRC** Duty cycle : 6.2 : Cont.(S1) Insulation class : 118 ft.lb : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage



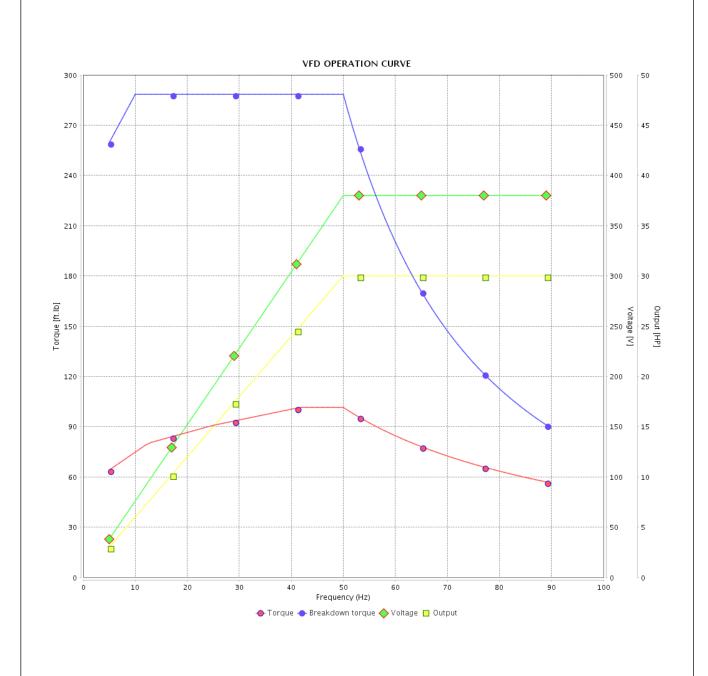
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836783

Catalog #: 04018OT3E324JPV-W40



Performance	: 3	380 V 50 Hz 4P IE3				
Rated current		13.3 A	Moment of	Moment of inertia (J)		
LRC : 6.7		6.7	Duty cycle	;	: Cont.(S1)	
Rated torque		107 ft.lb	Insulation	Insulation class		
Locked rotor torque		229 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 2	270 % Temperature rise Design		re rise : 80 K		
Rated speed	: 1			: B		
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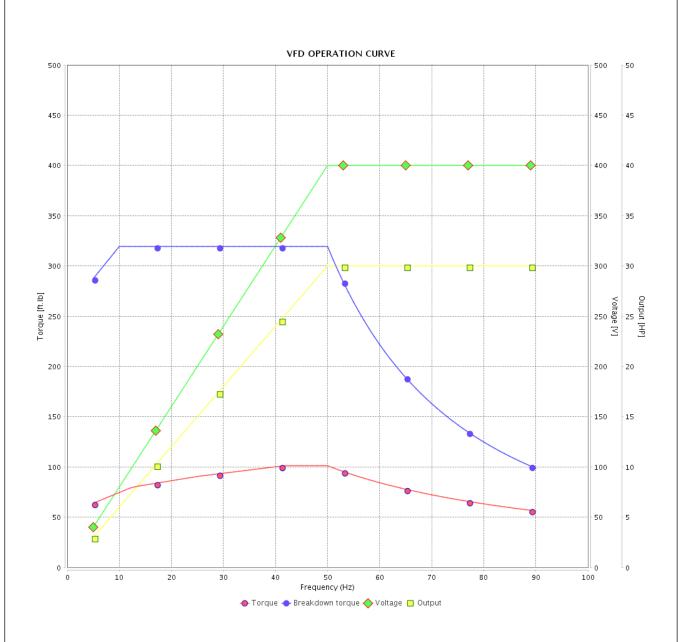
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Efficiency Three-Phase

Product code: 14836783

Catalog #: 04018OT3E324JPV-W40

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: 400 V 50 Hz 4P IE3				
: 42.2 A : 6.7 : 106 ft.lb : 260 % : 300 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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	: 42.2 A : 6.7 : 106 ft.lb : 260 % : 300 % : 1480 rpm	: 42.2 A Moment or 26.7 Duty cycle Insulation Service far 300 % Temperature 1480 rpm Design	: 42.2 A : 6.7 : 106 ft.lb : 260 % : 300 % : 1480 rpm Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 42.2 A Moment of inertia (J) : 5.69 sq.ft.lb : 6.7 Duty cycle : Cont.(S1) : 106 ft.lb Insulation class : F : 260 % Service factor : 1.00 : 300 % Temperature rise : 80 K : 1480 rpm Design : B

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Three Phase Induction Motor - Squirrel Cage



Customer

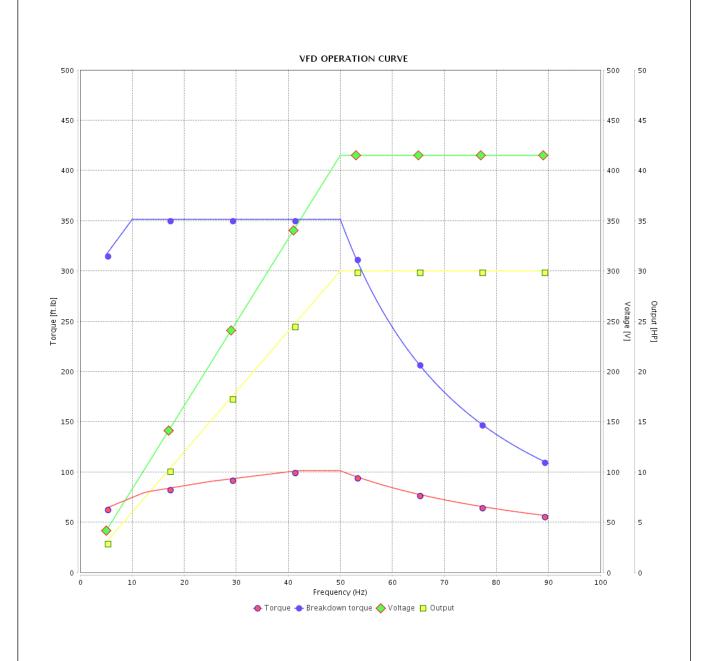
Product line : W40 JP Pump NEMA Premium

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Product code: 14836783

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.7 A : 7.5 : 106 ft.lb : 280 % : 330 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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