DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837500

Catalog #: 04018OT3E324JMV-W40

Frame : 324/6JM 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 : 463 lb
Protection degree : IP23 Moment of inertia (J) : 5.69 sq.ft.lb

Protection degree		: IP23	Moment of ine	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	43.3	42.2	41.7	
L. R. Amperes [A]		590/295	290	283	313	
LRC [A]		6.2x(Code G)	6.7x(Code H)	6.7x(Code H)	7.5x(Code J)	
No load current [A]		37.0/18.5	18.3	20.3	22.1	
Rated speed [RPN	/ 1]	1775	1475	1480	1480	
Slip [%]		1.39	1.67	1.33	1.33	
	Rated torque [ft.lb]		107	106	106	
	Locked rotor torque [%]		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 level ²		66.0 dB(A)				
	25%	93.5	92.4	92.5	92.4	
Efficiency (%)	50%	93.6	92.6	92.6	92.5	
Linciency (70)	75%	94.1	93.0	93.0	93.0	
	100%	94.1	93.0	93.0	93.0	
	25%	0.44	0.42	0.38	0.34	
Power Factor	50%	0.70	0.68	0.63	0.59	
1 OWCI I actor	75%	0.80	0.78	0.75	0.72	
	100%	0.84	0.83	0.81	0.79	

Bearing type Drive end Non drive end Fo

Searing type : 6312 Z C3 6211 Z C3 Ma

Sealing : Without Without Bearing Seal Bearing Seal

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

Foundation loads
Max. traction

Max. compression

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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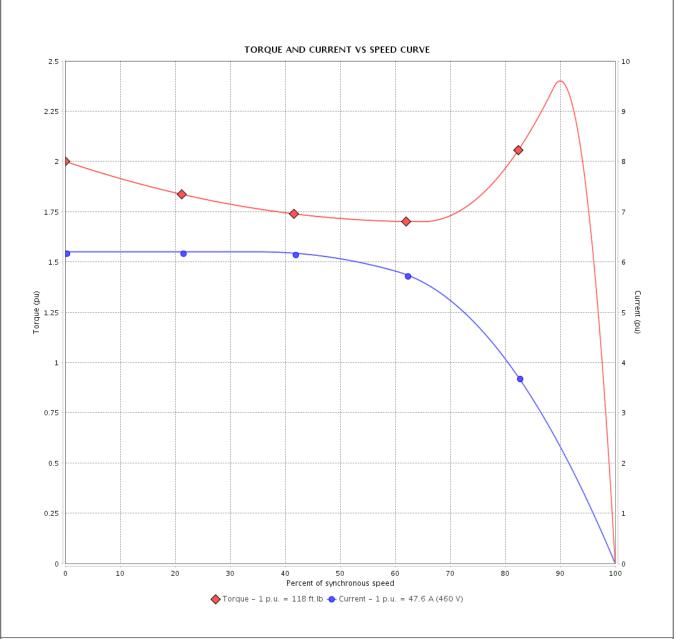
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837500

Catalog #: 04018OT3E324JMV-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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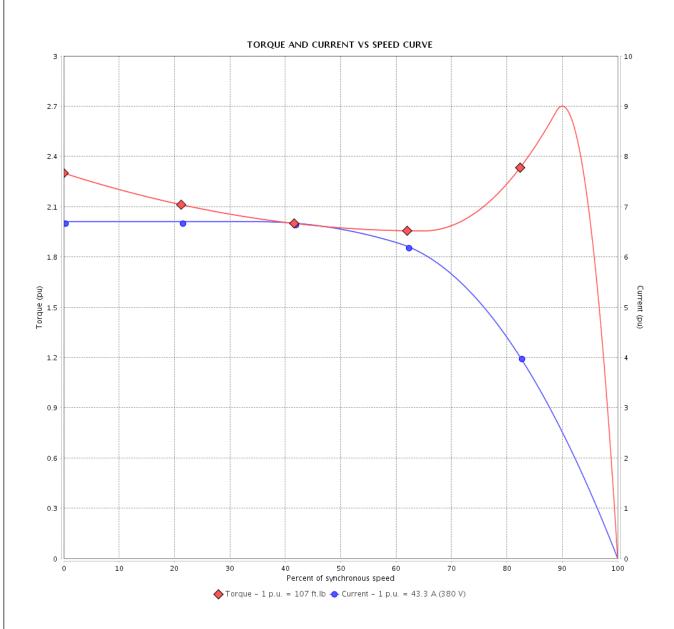
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Customer :

Product line : W40 JM Pump NEMA Premium Product code : 14837500 Efficiency Three-Phase

Catalog # : 04018OT3E324JMV-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 Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B

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

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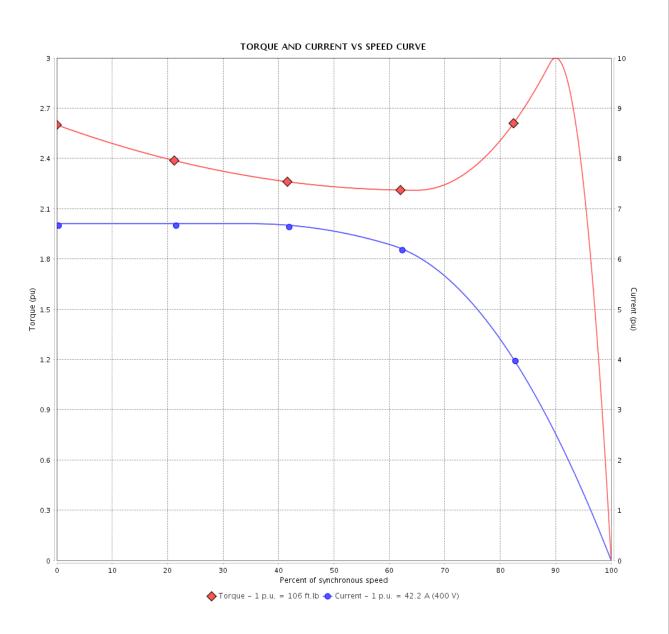
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837500

Catalog #: 04018OT3E324JMV-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)	
Rated torque	: 106 ft.lb	Insulation class	: 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)			

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

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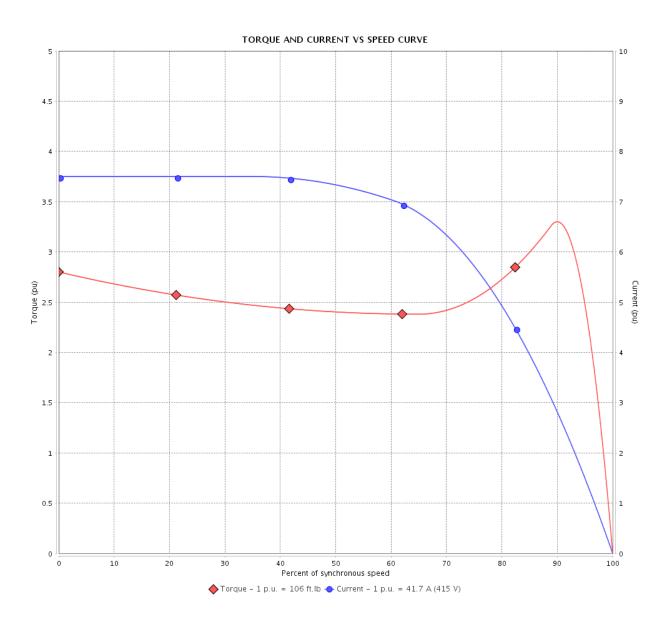


Customer

Product line : W40 JM Pump NEMA Premium Product code: 14837500

Efficiency Three-Phase

04018OT3E324JMV-W40 Catalog #:



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)	
Rated torque	: 106 ft.lb	Insulation class	: 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)			

Locked folor tilli	. 2	05 (COId) 145 (110t)			
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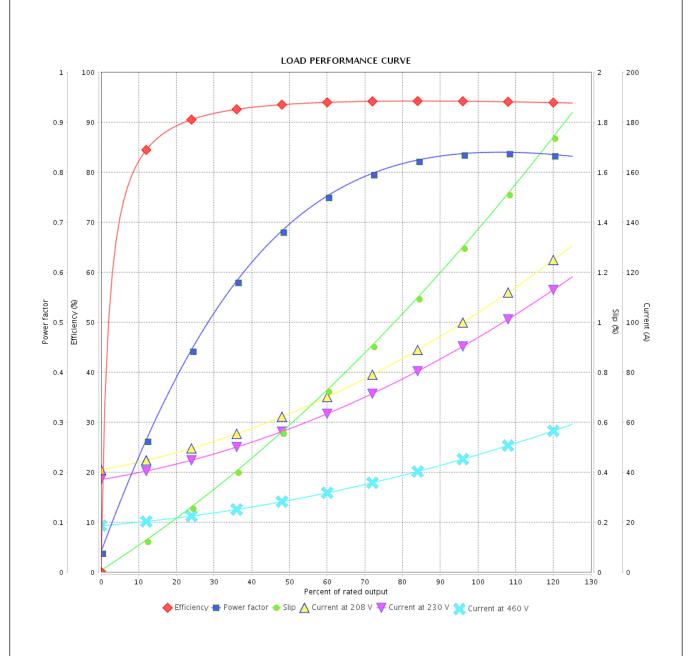
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837500

Catalog #: 04018OT3E324JMV-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

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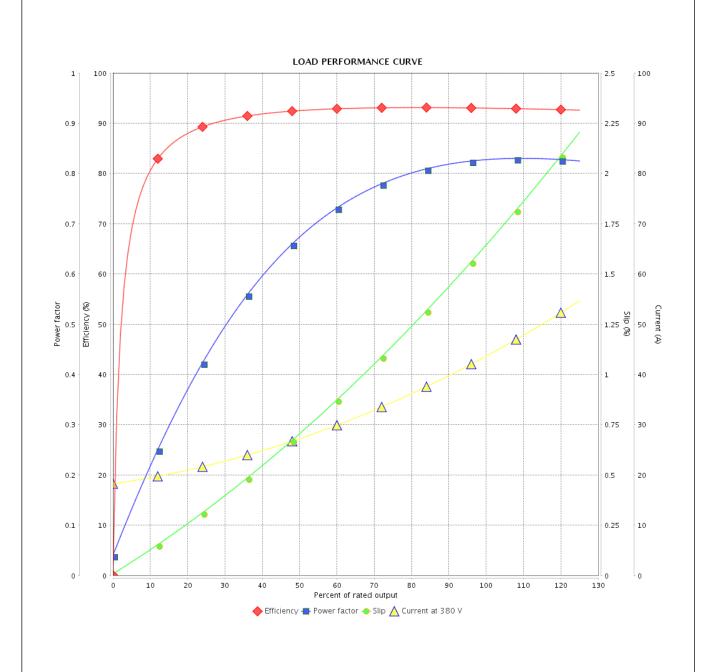
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837500

Catalog #: 04018OT3E324JMV-W40

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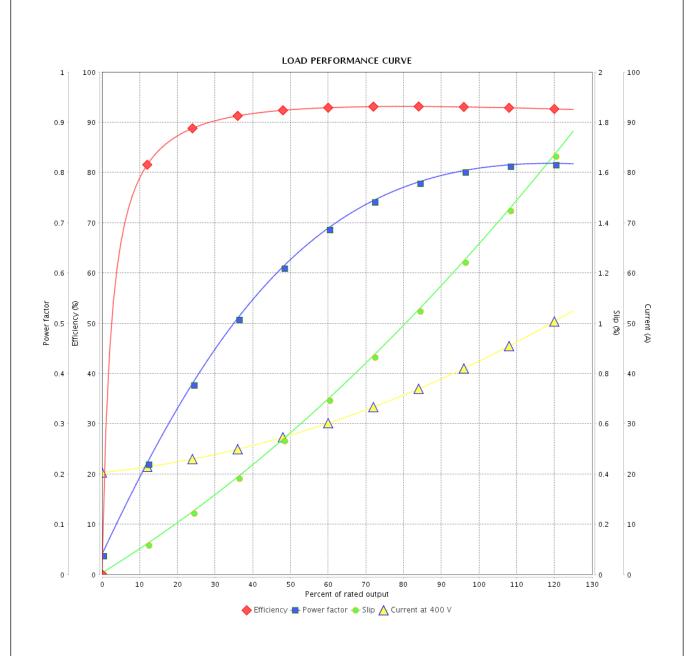
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837500

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Performance	: 400 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 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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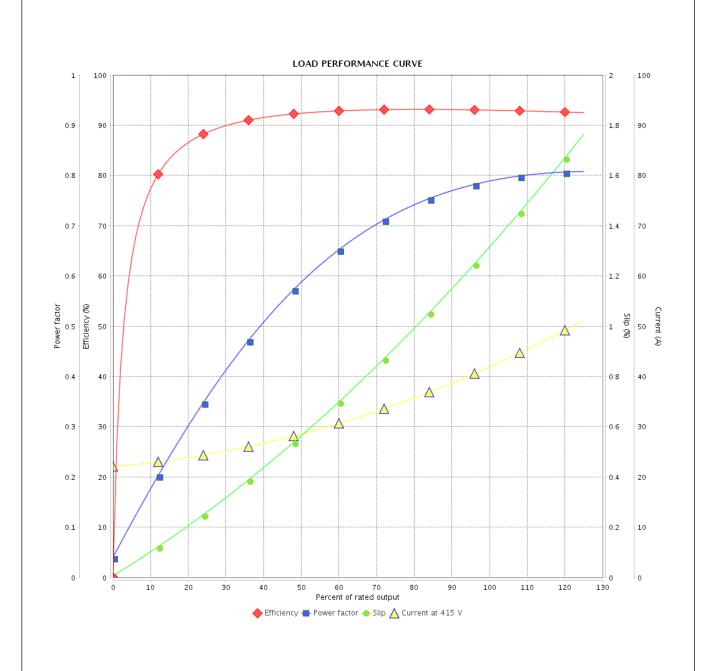
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837500

Catalog #: 04018OT3E324JMV-W40



Performance : 415 V 50		115 V 50 Hz 4P IE3				
Rated current	: 4	11.7 A	Moment o	f inertia (J)	: 5.69 sq.ft.lb	
LRC	: 7	7.5	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	106 ft.lb	Insulation	class	: F	
Locked rotor torque		280 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	330 %	Temperature rise		: 80 K	
Rated speed	: 1	1480 rpm	Design		: B	
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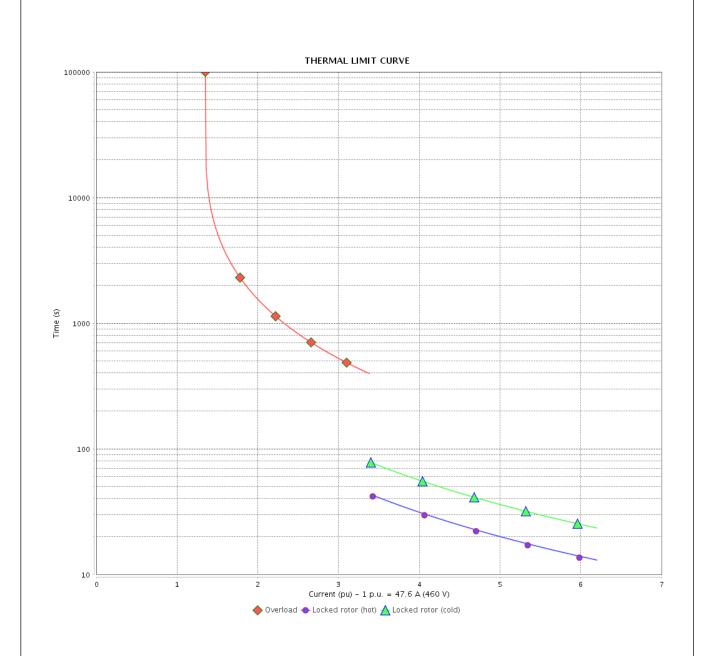


Customer	:					
Product line	: \ E1	W40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14837500 04018OT3E3	24.IMV-W40
Performance	: 23	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed	: 95 : 6. : 11 e : 20 : 2	5.2/47.6 A	Moment of Duty cycle 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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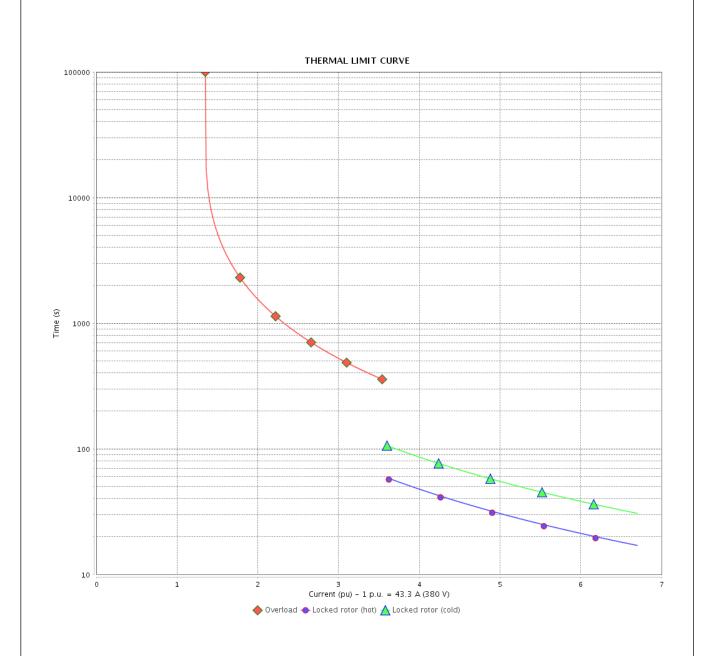


Customer	:					
Product line	: \ E1	N40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14837500	
			(Catalog # :	04018OT3E3	24JMV-W40
Performance	: 38	30 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6. : 10 e : 22 : 27	3.3 A 7 07 ft.lb 29 % 70 % 475 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 5.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
	. 1-	ποτριπ	Design		. <i>D</i>	
Heating constant						
Cooling constant			T			
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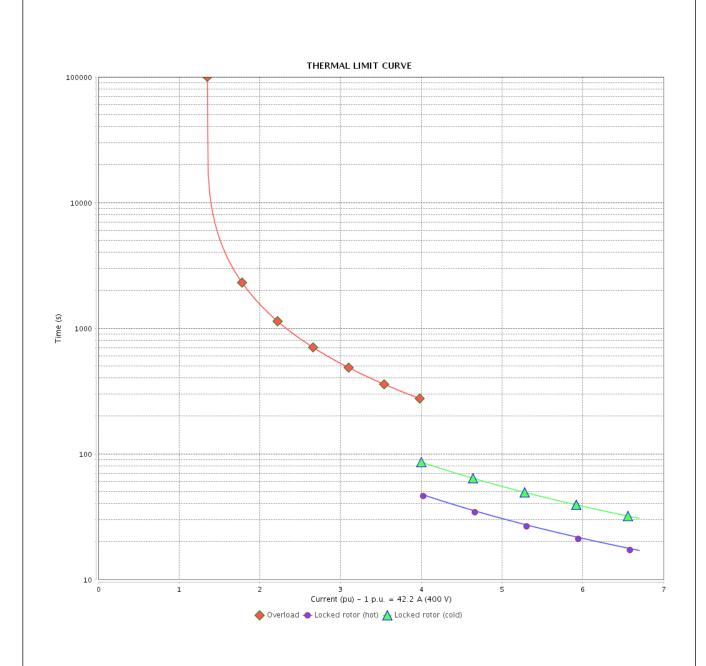


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Customer	•				
Product line	: W40 JM Pump NEMA Efficiency Three-Phase	Premium	Product code :	14837500	
	Liliciency Three-Friase		Catalog # :	04018OT3E32	24JMV-W40
Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 42.2 A : 6.7 : 106 ft.lb : 260 % : 300 % : 1480 rpm	Moment of Duty cycle Insulation Service fa Temperati Design	class ctor	: 5.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant					
Cooling constant					
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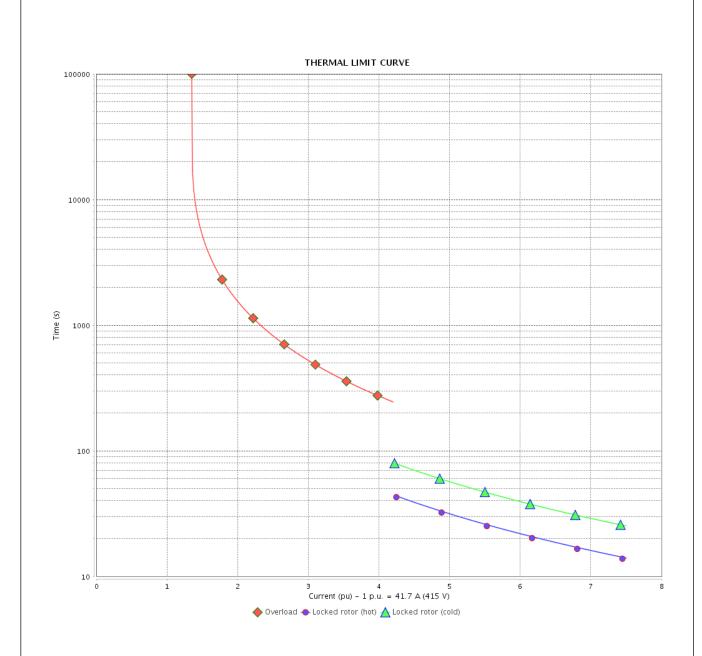


Customer		:				
Product line		: W40 JM Pump NEMA Pren Efficiency Three-Phase		Product code : Catalog # :	14837500 040180T3E32	24JMV-W40
Performance		415 V 50 Hz 4P IE3				
Rated current LRC	:	41.7 A 7.5	Duty cycle		: 5.69 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		106 ft.lb 280 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		330 %	Temperati		: 1.00 : 80 K	
Rated speed	:	1480 rpm	Design		: B	
Heating constant Cooling constant						
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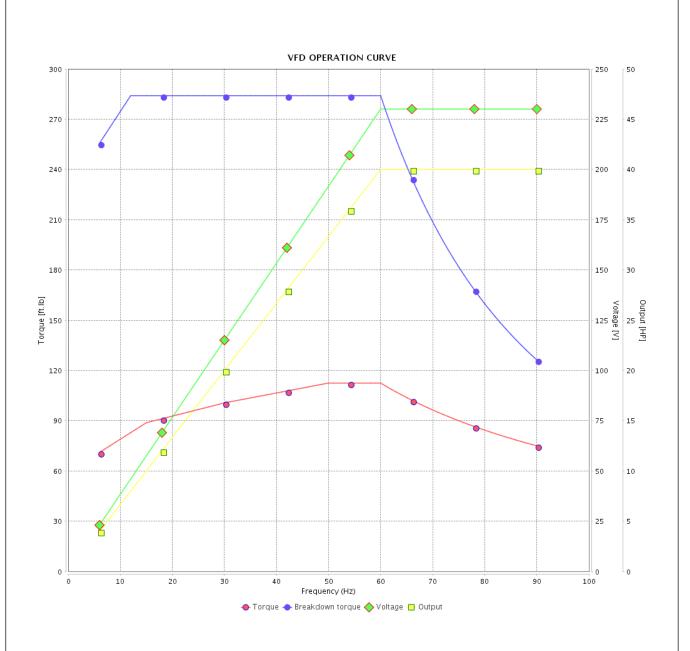
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Efficiency Three-Phase

Product code: 14837500

Catalog #: 04018OT3E324JMV-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 : 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 Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



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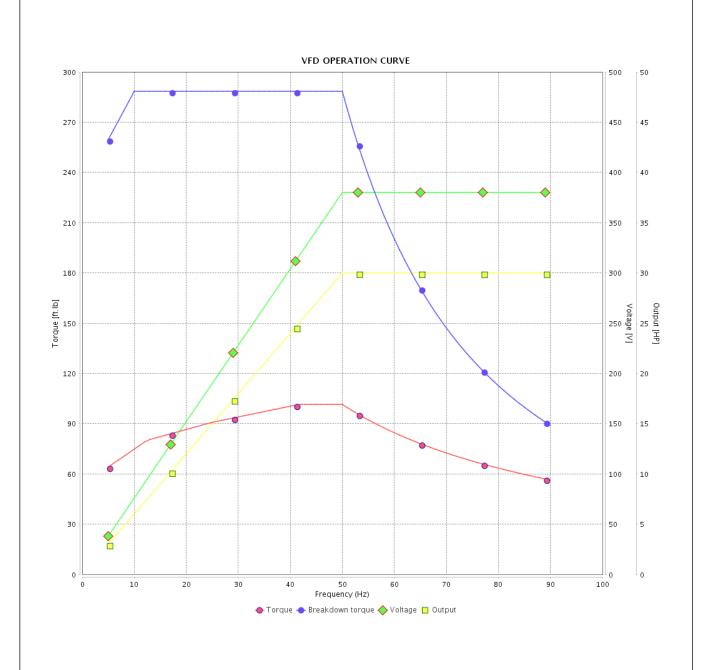
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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 43.3 A : 6.7 : 107 ft.lb : 229 % : 270 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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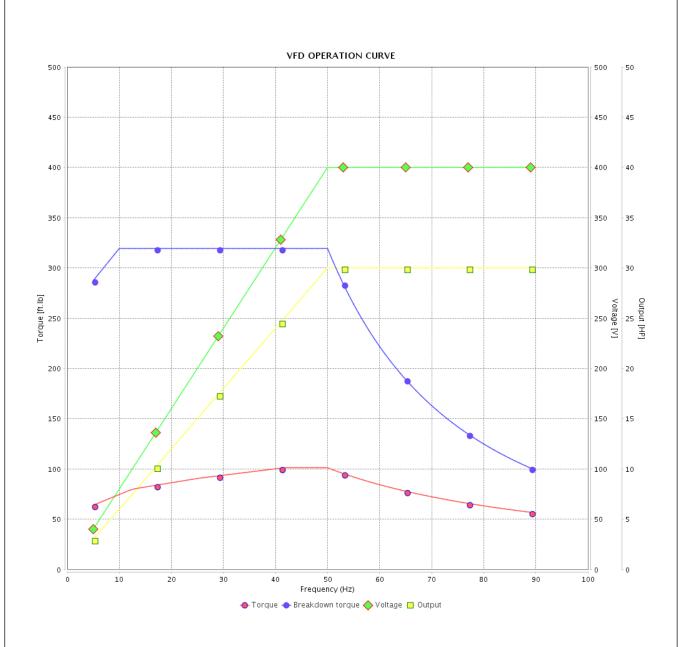
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Performance		: 400 V 50 I	Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 42.2 A : 6.7 : 106 ft.lb : 260 % : 300 % : 1480 rpm		Moment on Duty cycle Insulation Service fa Temperate Design	class ctor	: 5.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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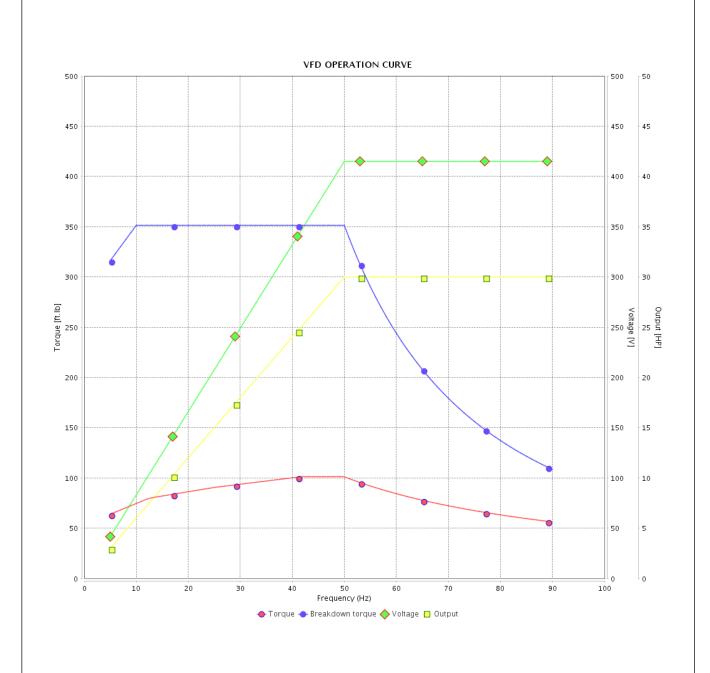
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837500

Catalog #: 04018OT3E324JMV-W40



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	ed current : 41.7 A		Moment of	Moment of inertia (J)		
LRC	: 7	.5	Duty cycle	•	: 5.69 sq.ft.lb : Cont.(S1)	
Rated torque			Insulation	Insulation class : F		
1		80 %	Service fa	Service factor		
Breakdown torque		30 %	Temperati	Temperature rise		
Rated speed	: 1	480 rpm	0 rpm Design		: B	
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