### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484572

Catalog #: 02512OT3E324JM-W40

Frame : 324JM 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. weight<sup>3</sup> : 466 lb

Protection degree : IP23 Moment of inertia (J) : 7.69 sq.ft.lb

Protection degree		: IP23	Moment of ine	Moment of inertia (J) : 7.69 sq.ft.lb			
Design		: B					
Output [HP]		25	20	20	20		
Poles		6	6	6	6		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		230/460	380	400	415		
Rated current [A]		61.6/30.8	30.5	30.1	29.7		
L. R. Amperes [A]		382/191	201	205	205		
LRC [A]		6.2x(Code G)	6.6x(Code H)	6.8x(Code H)	6.9x(Code J)		
No load current [A	]	28.4/14.2	14.0	15.5	16.7		
Rated speed [RPN	<b>/</b> 1]	1183	980	985	985		
Slip [%]		1.42	2.00	1.50	1.50		
Rated torque [ft.lb]		111	107	107	107		
Locked rotor torque [%]		210	170	229	210		
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		32s (cold) 18s (hot)	23s (cold) 13s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)		
Noise level <sup>2</sup>		62.0 dB(A)					
	25%	91.0	90.6	90.9	90.1		
Efficiency (%)	50%	91.7	90.8	91.0	90.3		
Liliciency (70)	75%	92.4	91.2	91.2	91.2		
ı	100%	93.0	91.2	91.2	91.2		
	25%	0.39	0.39	0.35	0.32		
Power Factor	50%	0.65	0.65	0.60	0.56		
I OWELL ACIOI	75%	0.76	0.76	0.73	0.70		
	100%	0.81	0.82	0.79	0.77		

Drive end Non drive end 6312 Z C3 6211 Z C3

Bearing type : 6312 Z C3 6211 Z C3
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 68.1A SF 1.15 SFA 78.3A

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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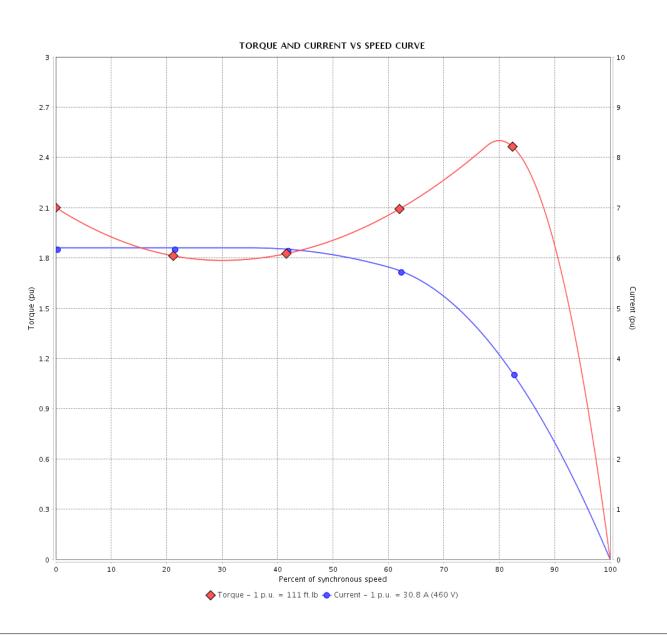
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484572

Catalog #: 02512OT3E324JM-W40



Performance : 230/460 V 60 Hz 6P Rated current : 61.6/30.8 A Moment of inertia (J) : 7.69 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 111 ft.lb : F Service factor Locked rotor torque : 210 % : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1183 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 JM Pump NEMA Premium Product code: 14484572 Efficiency Three-Phase Catalog #: 02512OT3E324JM-W40 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 107 ft.lb ◆ Current - 1 p.u. = 30.5 A (380 V) Performance : 380 V 50 Hz 6P IE3 Rated current : 30.5 A Moment of inertia (J) : 7.69 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 107 ft.lb : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 980 rpm Design : B Locked rotor time : 23s (cold) 13s (hot)

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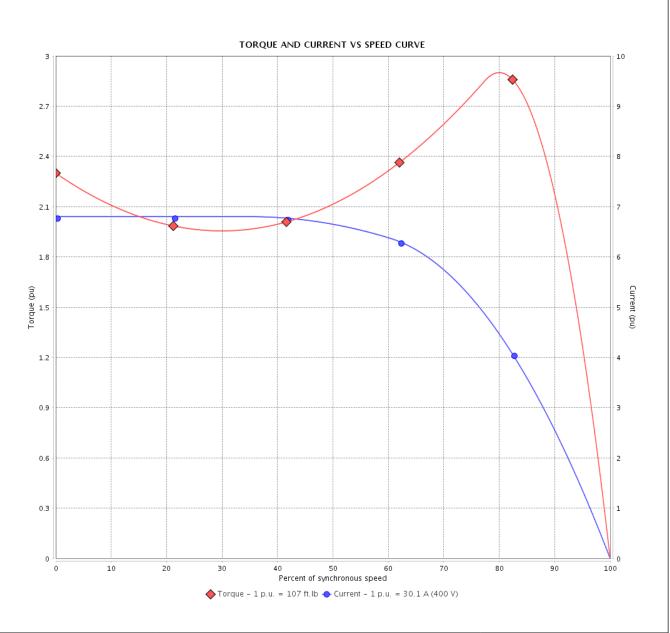
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484572

Catalog #: 02512OT3E324JM-W40



Performance : 400 V 50 Hz 6P IE3 Rated current : 30.1 A Moment of inertia (J) : 7.69 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 107 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 985 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

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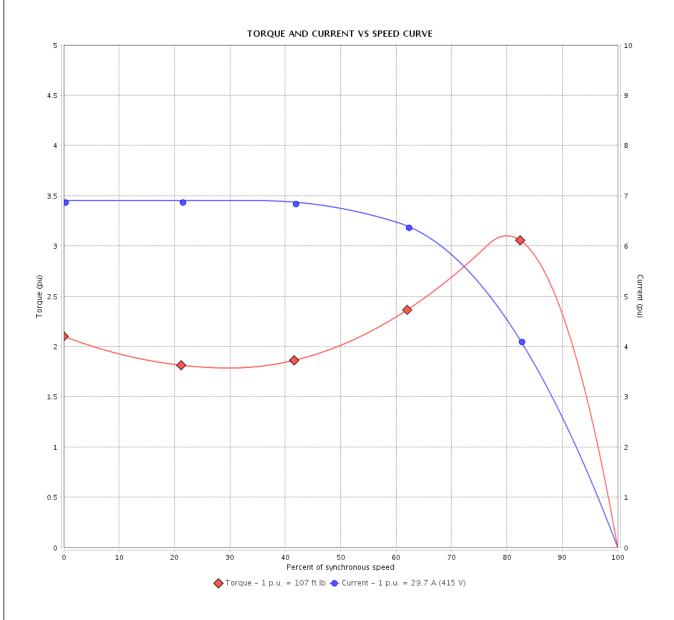
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484572

Catalog #: 02512OT3E324JM-W40



Rated current : 29.7 A	Performance	: 415 V 50 Hz 6P IE3				
	LRC Rated torque Locked rotor tor Breakdown torq	: 6.9 : 107 ft.lb jue : 210 % ie : 310 %	Duty cycle Insulation of Service fac Temperatur	lass tor	: Cont.(S1) : F : 1.00 : 80 K	
	Locked rotor tim	e : 25s (cold) 14s (hot)				
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Customer :

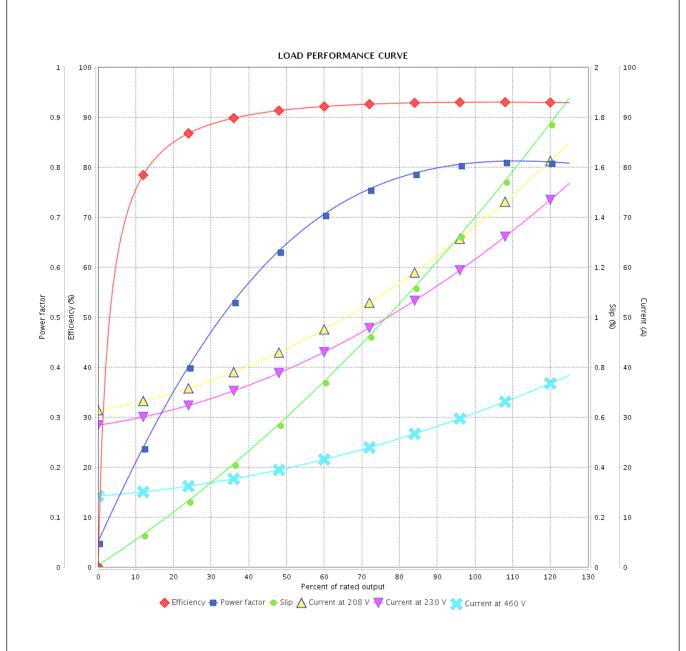
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484572

Catalog #: 02512OT3E324JM-W40

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Performance		: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	•	: 61.6/30.8 A : 6.2 : 111 ft.lb : 210 % : 250 % : 1183 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 7.69 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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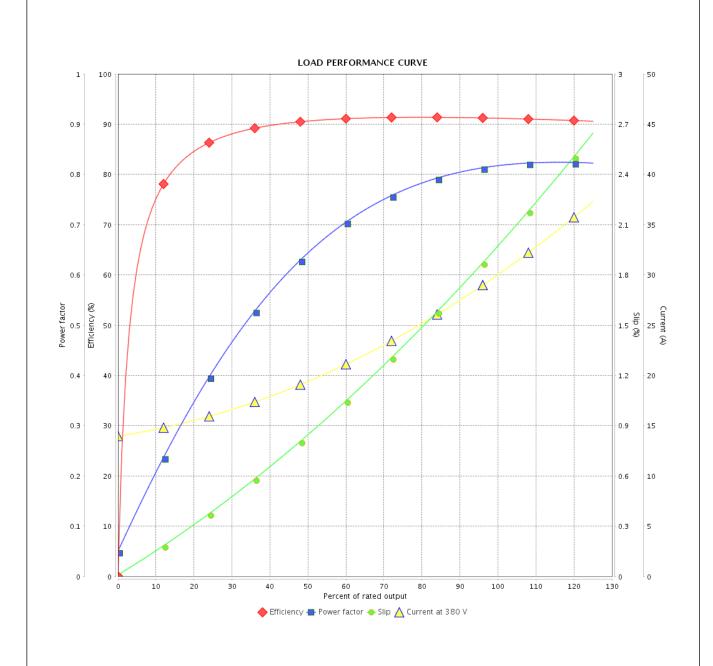
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484572

Catalog #: 02512OT3E324JM-W40



Performance	: 3	80 V 50 Hz 6P IE3	}			
Rated current	: 3	0.5 A	Moment o	f inertia (J)	: 7.69 sq.ft.lb	
LRC	: 6	5.6	Duty cycle	}	: Cont.(S1)	
Rated torque	: 1	07 ft.lb	Insulation	class	: F	
Locked rotor torque	e :1	70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	50 %	Temperatu	Temperature rise		
Rated speed	: 9	80 rpm	Design		: B	
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

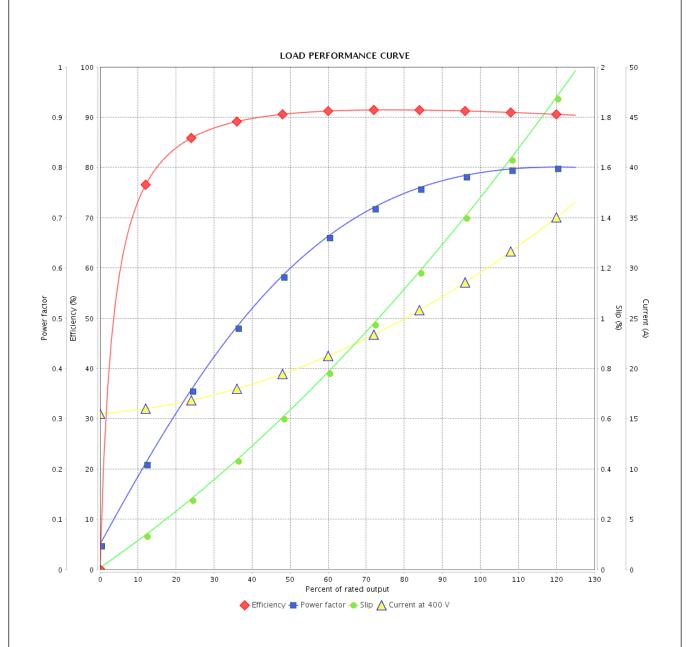
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Performance		: 400 V 50 Hz 6	iP IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 30.1 A : 6.8 : 107 ft.lb : 229 % : 290 % : 985 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 7.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

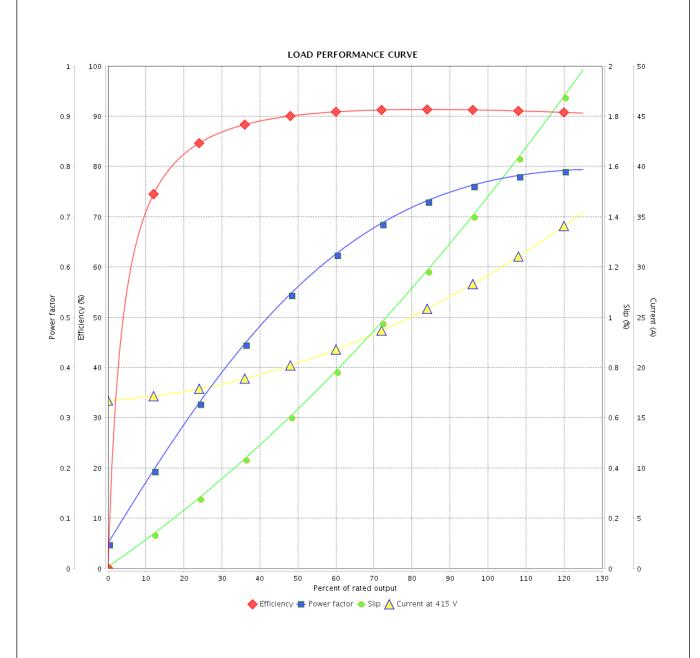
Product code: 14484572

Catalog #: 02512OT3E324JM-W40

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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 29.7 A : 6.9 : 107 ft.lb : 210 % : 310 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 7.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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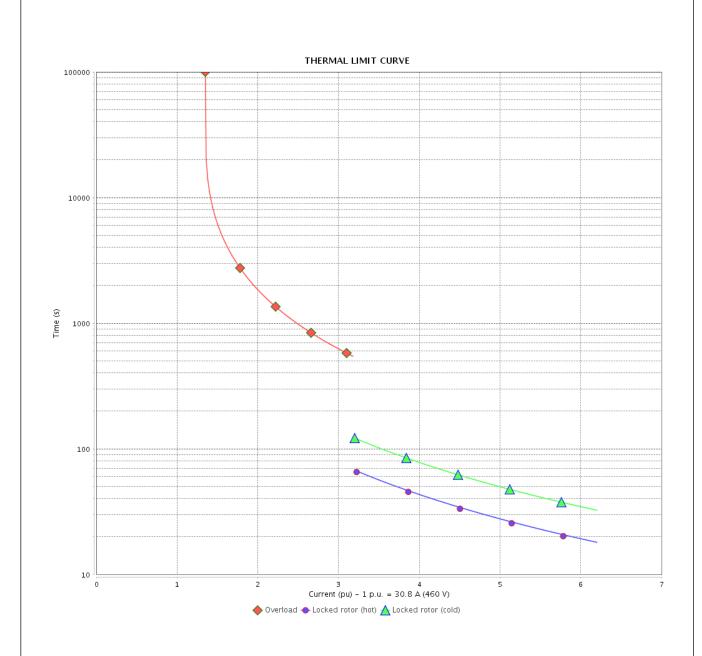


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Product line	: \ E1	N40 JM Pump NEMA Prem		Product code :	14484572	24 IM 1M40
				Catalog # :	02512OT3E32	24JIVI-VV4U
Performance		30/460 V 60 Hz 6P				
Rated current LRC	: 6´ : 6.	1.6/30.8 A 2	Moment of Duty cycle	r inertia (J)	: 7.69 sq.ft.lb : Cont.(S1)	
Rated torque	: 11	11 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		10 % 50 %	Service fac Temperatu		: 1.25 : 80 K	
Rated speed		183 rpm	Design		: B	
Heating constant						
Cooling constant						
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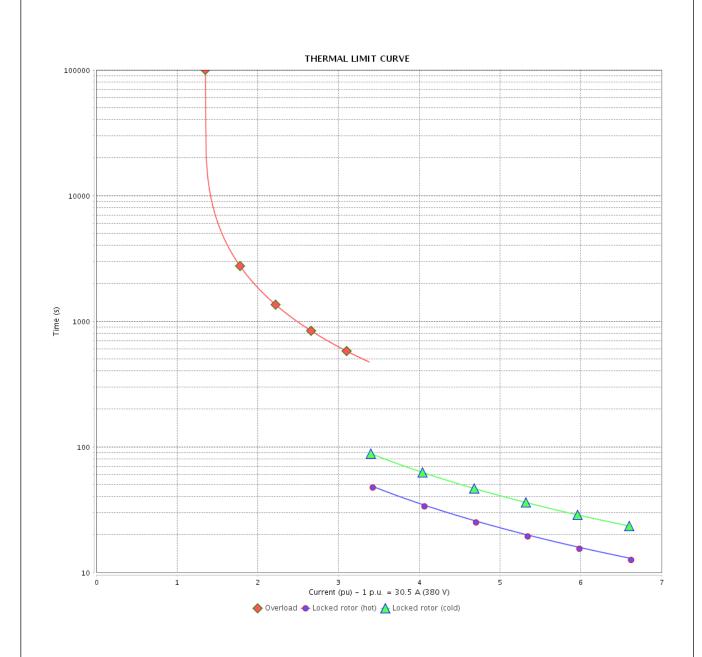


Customer	:				_	
Product line	: \ E	N40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14484572 02512OT3E3	24JM-W40
				Catalog # :	02512OT3E3	24JM-W40
Performance Rated current LRC Rated torque	: 30 : 6. : 10	07 ft.lb	Moment of Duty cycle Insulation	class	: 7.69 sq.ft.lb : Cont.(S1) : F	
Locked rotor torq Breakdown torqu Rated speed	e : 25 : 98	70 % 50 % 30 rpm	Service fac Temperatu Design		: 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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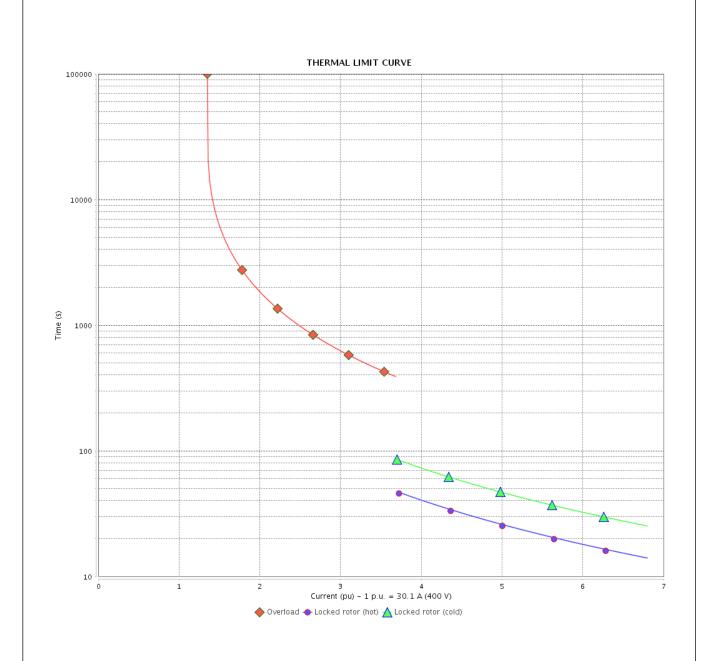


Customer	:				_	
Product line	: \ E:	N40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14484572 02512OT3E3	24.IM-\W40
Performance	. 44	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 30 : 6. : 10 e : 22	).1 A	Moment of Duty cycle Insulation Service fac Temperatu	class	: 7.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed Heating constant Cooling constant		35 rpm	Design		: B	
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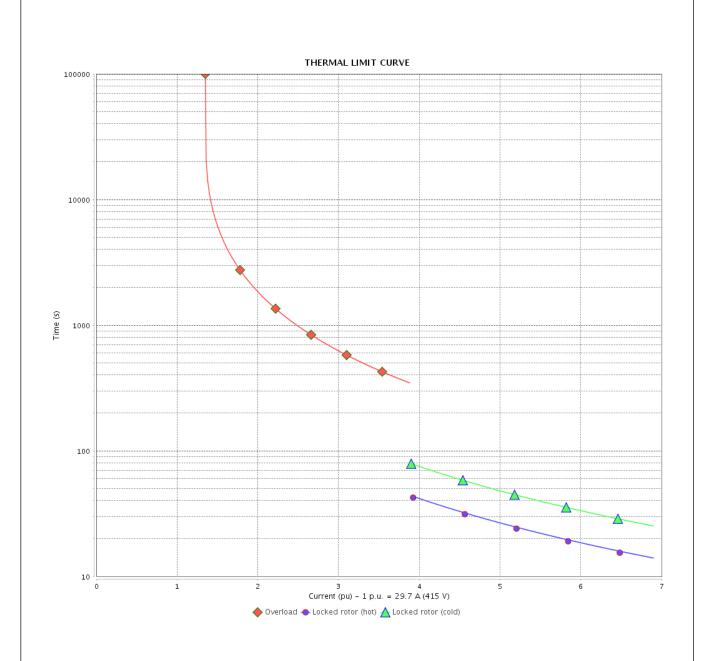


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Product line	:	: W40 JM Pump NEMA Premi		Product code :	14484572	
	E	Efficiency Three-Phase		Catalog # :	02512OT3E	324.11/1-\//40
				Catalog # .	02312013E	024JIVI-VV4U
Performance		115 V 50 Hz 6P IE3				
Rated current LRC		29.7 A 3.9	Moment on Duty cycle	f inertia (J)	: 7.69 sq.ft.lb : Cont.(S1)	
Rated torque	: 1	107 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	210 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed		310 % 985 rpm	Temperati Design	ure rise	: 80 K : B	
			Doorgii			
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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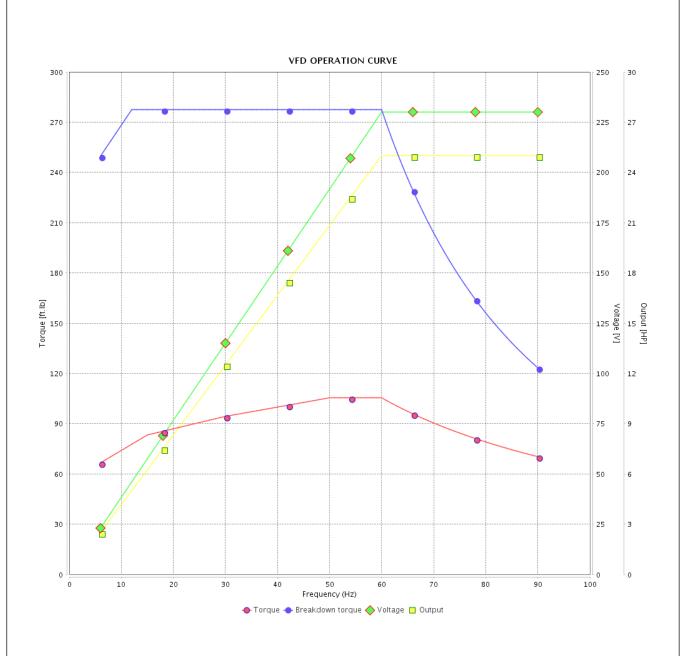
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484572

Catalog #: 02512OT3E324JM-W40

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Performance	: 230/460 V 60 Hz 6P				
Rated current	: 61.6/30.8 A	1	f inertia (J)	: 7.69 sq.ft.lb	
LRC	: 6.2	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	: 111 ft.lb	: 210 % Service factor : 250 % Temperature rise		: F	
Locked rotor torque	: 210 %			: 1.25	
Breakdown torque	: 250 %			: 80 K	
Rated speed	: 1183 rpm			: B	
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#### Three Phase Induction Motor - Squirrel Cage



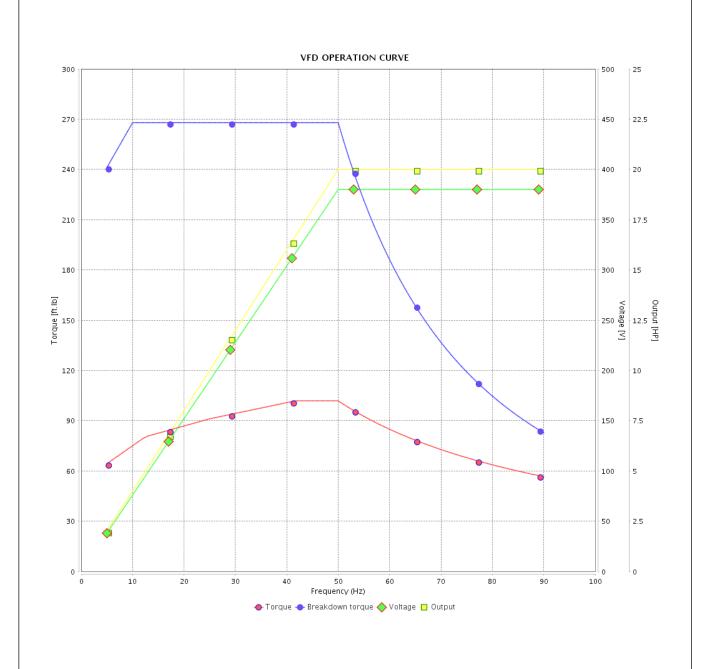
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484572

Catalog #: 02512OT3E324JM-W40



Performance	: 3	80 V 50 Hz 6P IE3				
Rated current : 30.		0.5 A	Moment o	Moment of inertia (J)		
LRC	: 6	.6	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 1	07 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	70 %	Service fa	ctor	: 1.00	
Breakdown torque		50 %	Temperati	Temperature rise		
Rated speed		80 rpm	Design	Design		
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

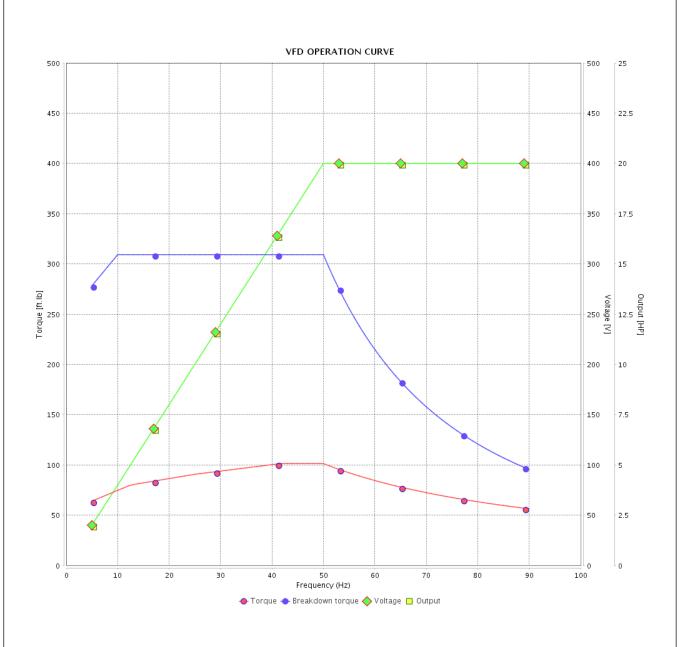
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Performance	:	400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	30.1 A 6.8 107 ft.lb 229 % 290 % 985 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 7.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer

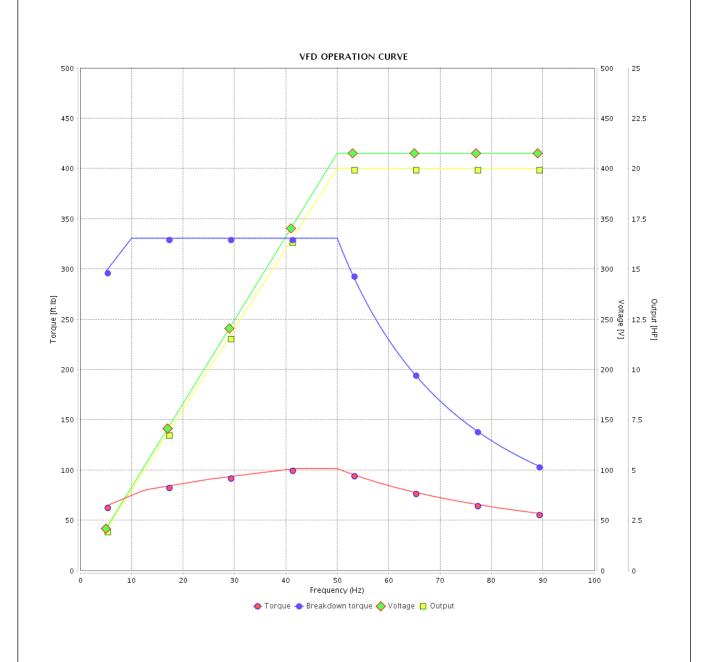
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484572

Catalog #: 02512OT3E324JM-W40

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Performance	: 415 V 50 Hz 6P IE3				
Rated current	: 29.7 A	Moment of inertia (J)		: 7.69 sq.ft.lb	
LRC	: 6.9	Duty cycle	!	: Cont.(S1)	
Rated torque	: 107 ft.lb	Insulation	class	: F	
Locked rotor torque	: 210 %	Service factor		: 1.00	
Breakdown torque	: 310 %	Temperature rise		: 80 K	
Rated speed	: 985 rpm	Design		: B	
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