### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484726

Catalog #: 05036OT3E324JM-W40

Frame : 324JM Cooling method : IC01 - ODP

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight<sup>3</sup> : 431 lb Altitude

Protection degree	е	: IP23	Moment of ine	ertia (J) : 3.02	sq.ft.lb
Design		: B			
Output [HP]		50	40	40	40
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		119/59.4	57.5	56.6	56.6
L. R. Amperes [A]		748/374	368	374	385
LRC [A]		6.3x(Code G)	6.4x(Code G)	6.6x(Code H)	6.8x(Code H)
No load current [A]	]	45.0/22.5	20.5	24.0	27.0
Rated speed [RPN	<b>/</b> 1]	3560	2960	2965	2965
Slip [%]		1.11	1.33	1.17	1.17
Rated torque [ft.lb]		73.8	71.0	70.8	70.8
Locked rotor torqu	e [%]	200	200	229	240
Breakdown torque	[%]	220	220	240	260
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		25s (cold) 14s (hot)	19s (cold) 11s (hot)	21s (cold) 12s (hot)	19s (cold) 11s (hot)
Noise level <sup>2</sup>		75.0 dB(A)			
	25%	91.5	88.3	88.4	88.5
Efficiency (%)	50%	91.7	90.0	90.0	90.1
Linciency (70)	75%	93.0	91.6	91.7	91.7
100%		93.0	93.3	93.3	93.3
	25%	0.46	0.48	0.42	0.37
Power Factor	Dower Factor 50%		0.73	0.67	0.60
1 OWELL ACIO	75%	0.81	0.82	0.77	0.73
	100%	0.84	0.85	0.82	0.79

**Drive** end Non drive end Foundation loads 6312 Z C3 6211 Z C3 Max. traction

Max. compression

Sealing Without Without Bearing Seal Bearing Seal

19658 h 20000 h Lubrication interval 11 g Lubricant amount Mobil Polyrex EM Lubricant type

Notes

Bearing type

USABLE @208V 130A SF 1.15 SFA 149A

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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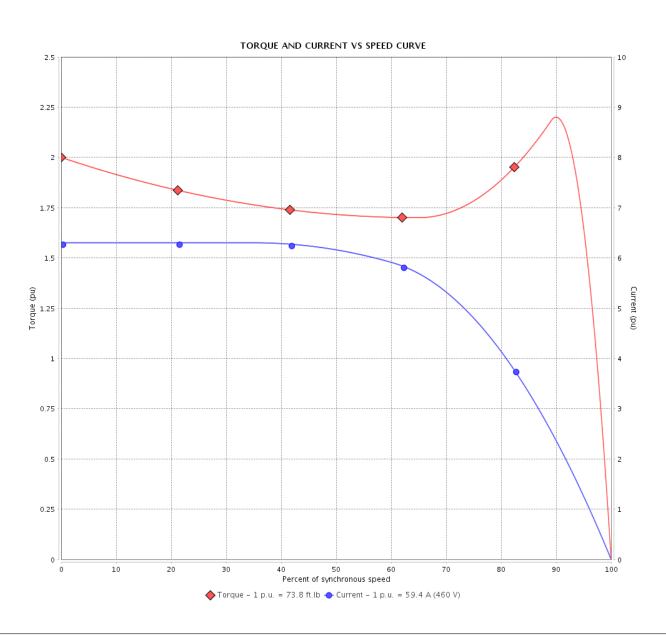
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484726

Catalog #: 05036OT3E324JM-W40



Performance : 230/460 V 60 Hz 2P Rated current : 119/59.4 A Moment of inertia (J) : 3.02 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 73.8 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 3560 rpm Design : B

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

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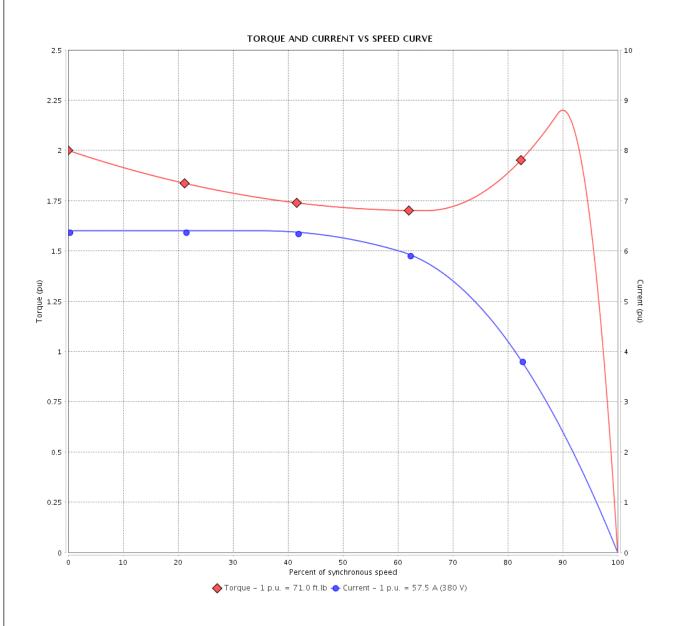
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484726

Catalog #: 05036OT3E324JM-W40



Performance	: 380 V 50 Hz 2P IE3		
Rated current	: 57.5 A	Moment of inertia (J)	: 3.02 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 71.0 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B
Locked rotor time	: 19s (cold) 11s (hot)		

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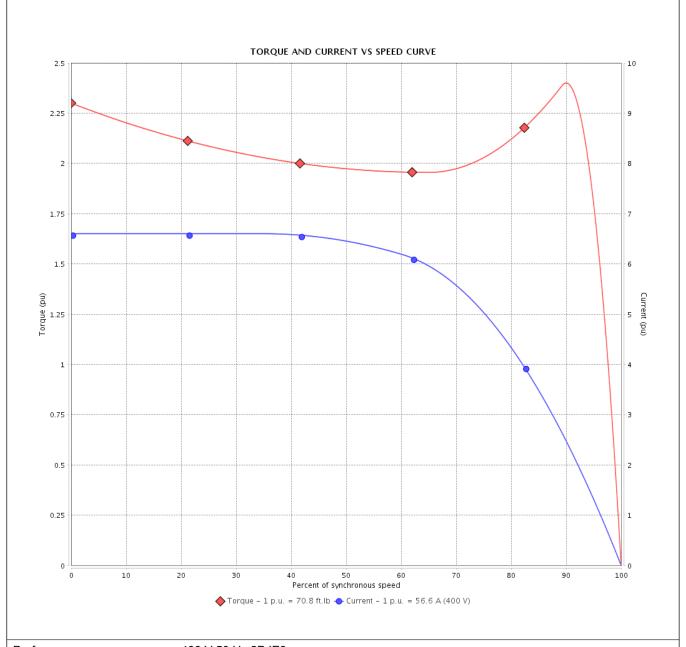
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484726

Catalog #: 05036OT3E324JM-W40



Performance : 400 V 50 Hz 2P IE3 Rated current : 56.6 A Moment of inertia (J) : 3.02 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 70.8 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.00

Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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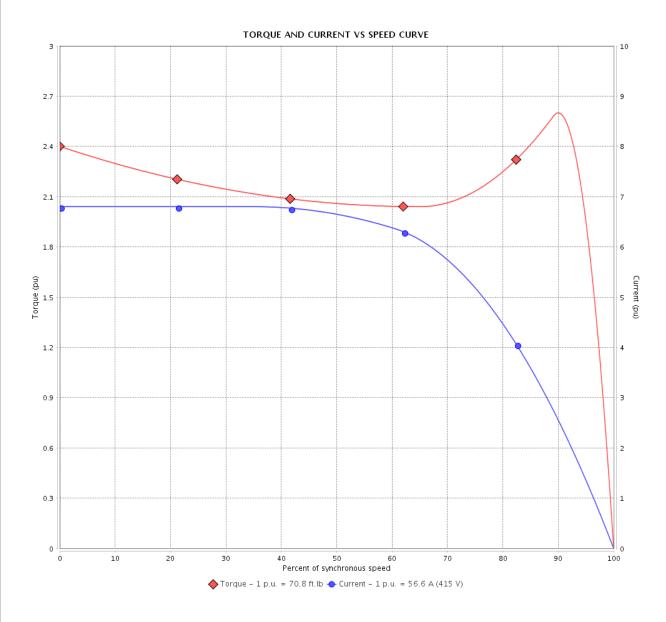
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484726

Catalog #: 05036OT3E324JM-W40



Performance : 415 V 50 Hz 2P IE3 Rated current : 56.6 A Moment of inertia (J) : 3.02 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 70.8 ft.lb Insulation class Rated torque : F : 240 % Locked rotor torque Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K : B Rated speed : 2965 rpm Design

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

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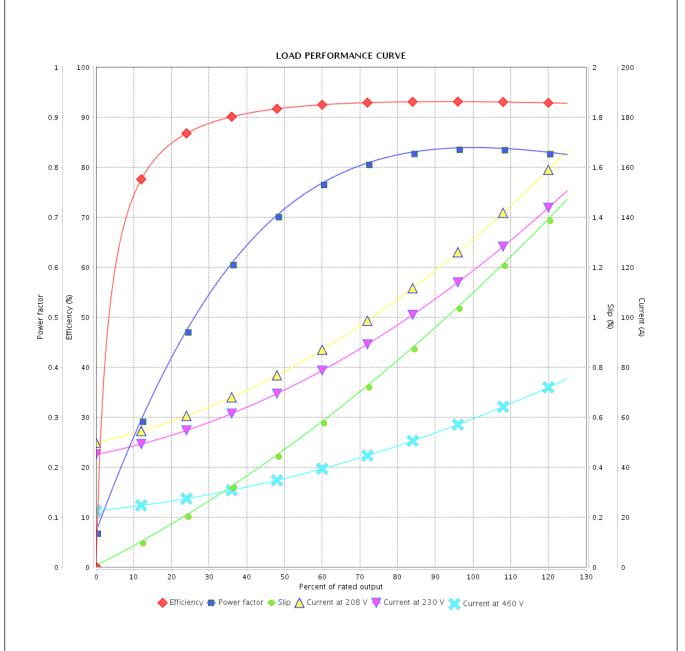
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484726

Catalog #: 05036OT3E324JM-W40



Performance	: 2	30/460 V 60 Hz 2P	1			
Rated current	: 1	19/59.4 A	Moment o	f inertia (J)	: 3.02 sq.ft.lb	
LRC	: 6	.3	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 7	3.8 ft.lb	Insulation	class	: F	
Locked rotor torg	μe : 2	00 %	Service fa	ctor	: 1.25	
Breakdown torqu	down torque : 220 % Temperature rise		ıre rise	: 80 K		
Rated speed		560 rpm	rpm Design		: B	
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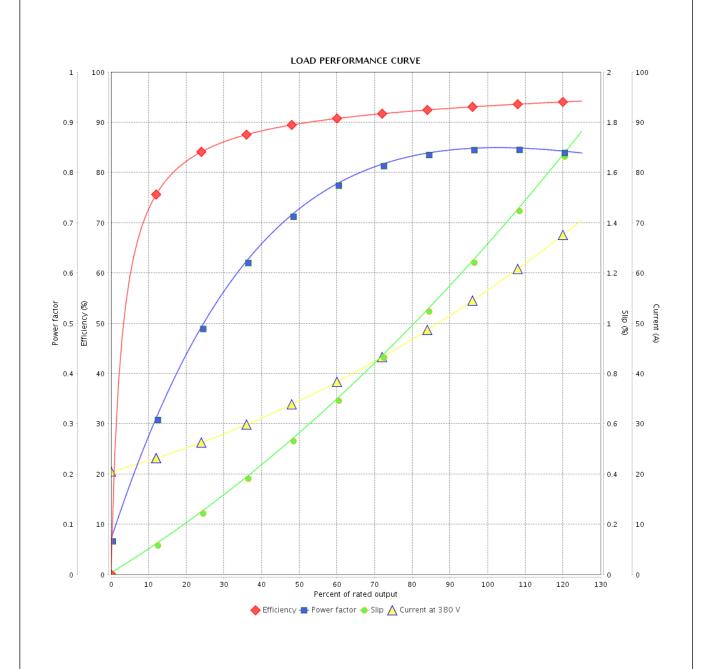
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484726

Catalog #: 05036OT3E324JM-W40



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	: 5	7.5 A	Moment o	f inertia (J)	: 3.02 sq.ft.lb	
LRC	: 6	.4	Duty cycle	` '	: Cont.(S1)	
Rated torque	: 7	1.0 ft.lb	Insulation		: F	
Locked rotor torqu	ue : 2	00 %	Service fa	ctor	: 1.00	
Breakdown torque		20 %	Temperati	ure rise	: 80 K	
Rated speed		960 rpm	Design		: B	
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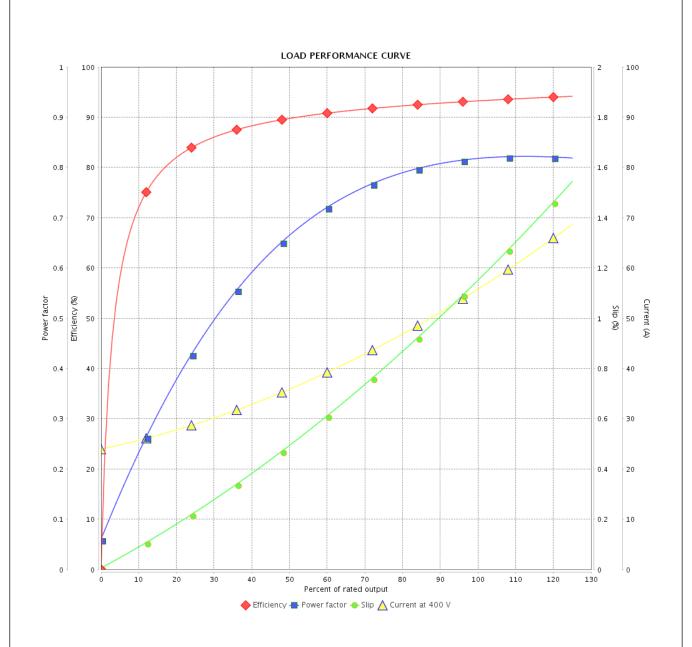
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484726

Catalog #: 05036OT3E324JM-W40

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Performance : 400 V 50 Hz 2P IE3 Rated current : 56.6 A Moment of inertia (J) : 3.02 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 : 70.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

#### Three Phase Induction Motor - Squirrel Cage



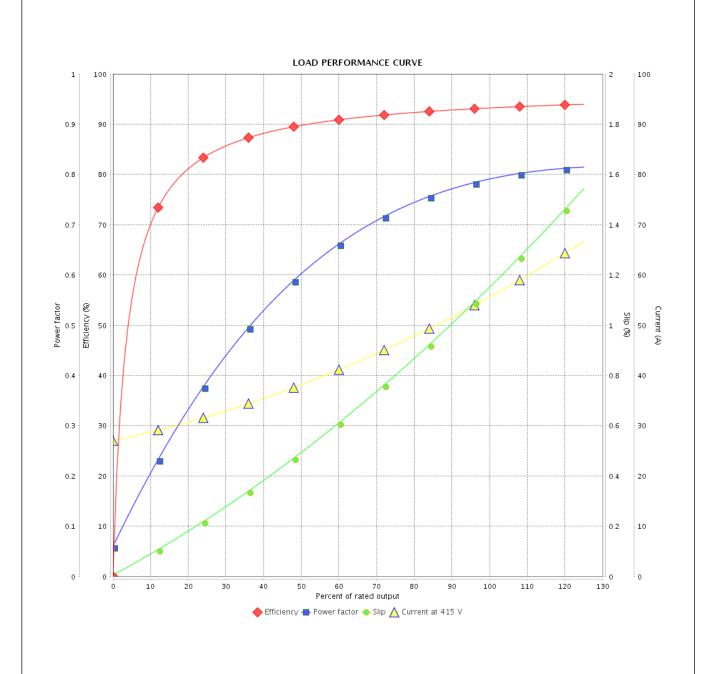
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484726

Catalog #: 05036OT3E324JM-W40



Performance	: -	415 V 50 Hz 2P IE3				
Rated current	: :	56.6 A	Moment of	f inertia (J)	: 3.02 sq.ft.lb	
LRC	: (	6.8	Duty cycle	;	: Cont.(S1)	
Rated torque	:	70.8 ft.lb	Insulation	class	: F	
Locked rotor tord	que ::	240 %	Service fa	ctor	: 1.00	
Breakdown torqu		260 %	Temperat	ure rise	: 80 K	
Rated speed	::	2965 rpm	Design		: B	
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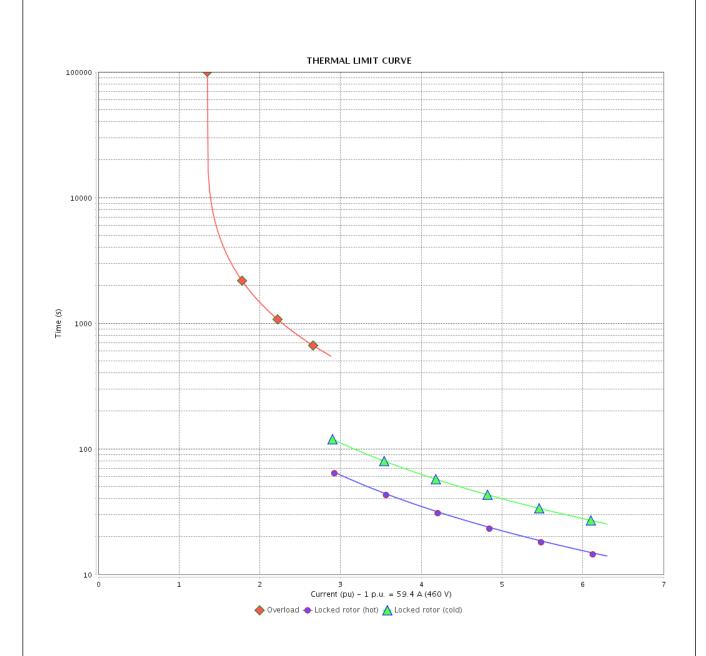


Customer	:					
Product line	: \ E	N40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14484726 05036OT3E32	24JM-W40
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 11 : 6. : 73 ue : 20 e : 22	30/460 V 60 Hz 2P 19/59.4 A 3 3.8 ft.lb 00 % 20 % 560 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 3.02 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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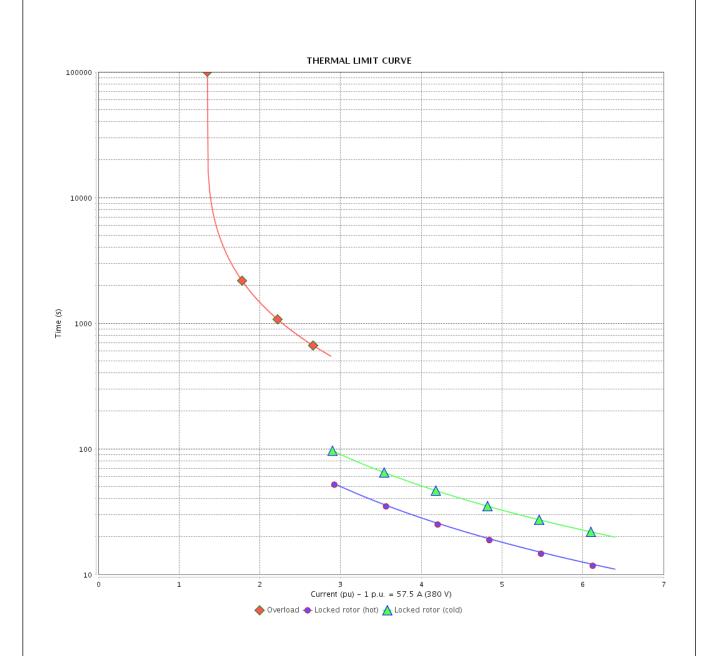


Customer	:					
Product line	: \ E1	W40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14484726 05036OT3E3	24JM-W40
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 57 : 6. : 7' ue : 20 e : 22	30 V 50 Hz 2P IE3 7.5 A 4 1.0 ft.lb 00 % 20 %	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 3.02 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

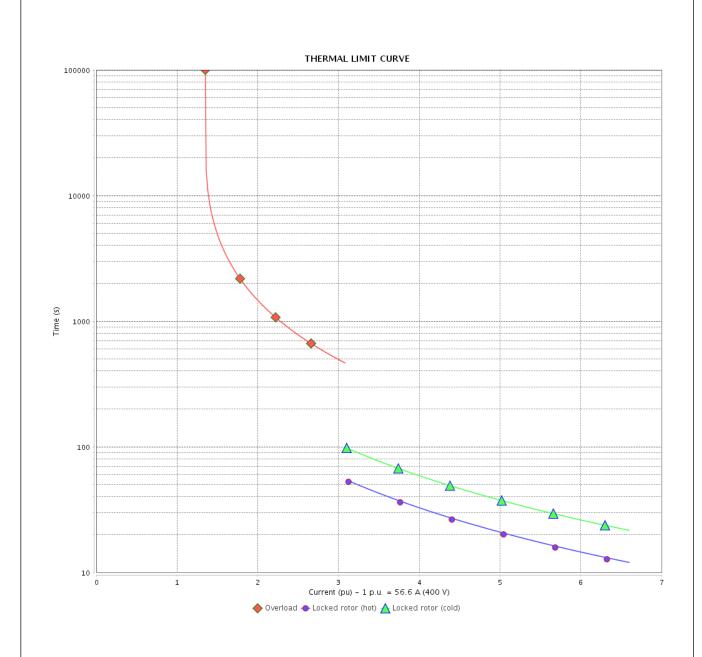


Customer	:					
Product line	: \ E:	W40 JM Pump NEMA Prem fficiency Three-Phase		Product code : Catalog # :	14484726 05036OT3E32	24JM-W40
Performance		00 V 50 Hz 2P IE3			0.00 6.11	
Rated current LRC	: 50 : 6.	6.6 A	Moment of Duty cycle	r inertia (J)	: 3.02 sq.ft.lb : Cont.(S1)	
Rated torque	: 70	0.8 ft.lb	Insulation	class	: F	
Locked rotor torque		29 % 40 %	Service fac		: 1.00 : 80 K	
Breakdown torque Rated speed		40 % 965 rpm	Temperatu Design	iie fise	: 80 K : B	
Heating constant Cooling constant						
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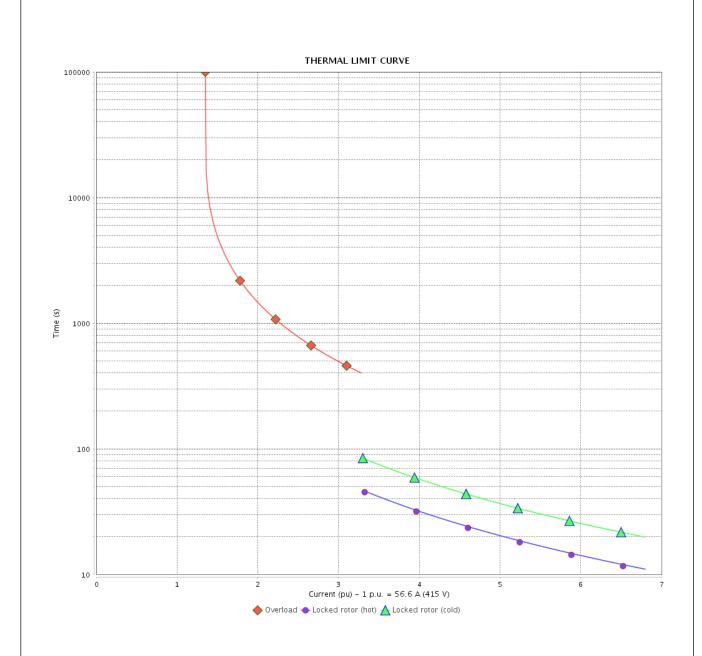


Customer	:					
Product line	:' E	W40 JM Pump NEMA Prem fficiency Three-Phase		Product code : Catalog # :	14484726 05036OT3E32	24JM-W40
Performance		15 V 50 Hz 2P IE3				
Rated current LRC	: 6		Moment of Duty cycle		: 3.02 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		0.8 ft.lb 40 %	Insulation Service fac		: F : 1.00	
Breakdown torqu		40 % 60 %	Temperatu		: 1.00 : 80 K	
Rated speed	: 2	965 rpm	Design		: B	
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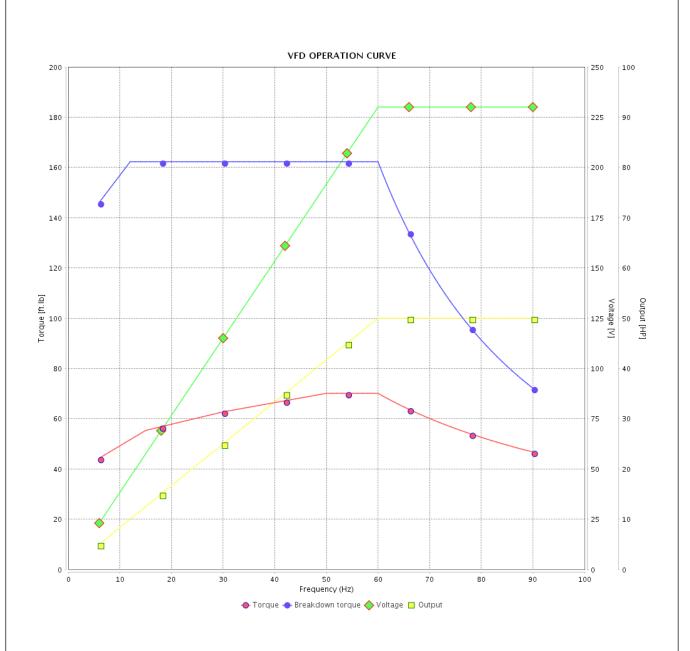
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484726

Catalog #: 05036OT3E324JM-W40

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Performance	: 230/460 V 60 Hz 2P				
Rated current : 119/59.4 A Moment of inertia (July cycle		` '	: 3.02 sq.ft.lb : Cont.(S1)		
Rated torque Locked rotor torque Breakdown torque Rated speed	: 73.8 ft.lb : 200 % : 220 % : 3560 rpm	% Service factor Temperature rise		: F : 1.25 : 80 K : B	
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Customer

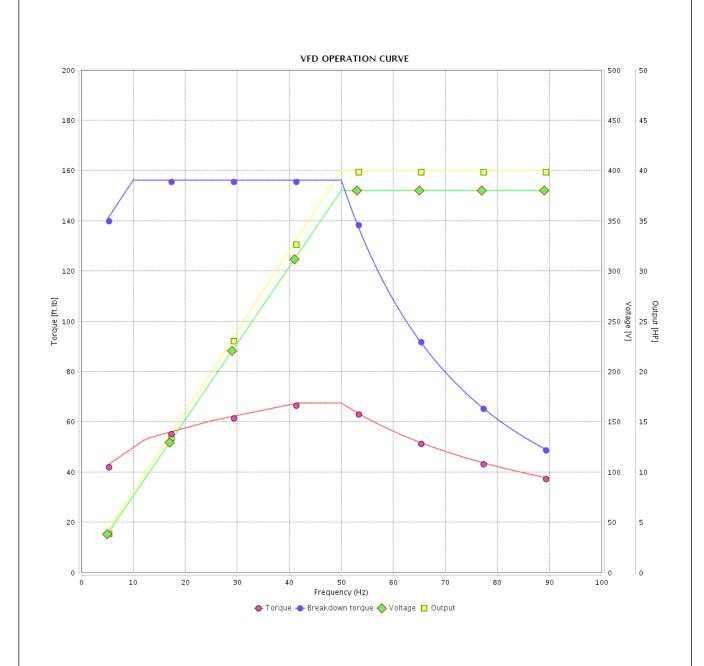
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484726

Catalog #: 05036OT3E324JM-W40

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Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 57.5 A : 6.4 : 71.0 ft.lb : 200 %	Duty cycle Insulation	class	: 3.02 sq.ft.lb : Cont.(S1) : F : 1.00	
Rated torque Locked rotor torque Breakdown torque	: 71.0 ft.lb : 200 %	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 200 %				
Breakdown torque		Service fac	ctor	. 4 00	
Breakdown torque			Service factor		
Pated speed	: 220 %	Temperature rise		: 80 K	
Rated speed : 2960 rpm		Design		: B	
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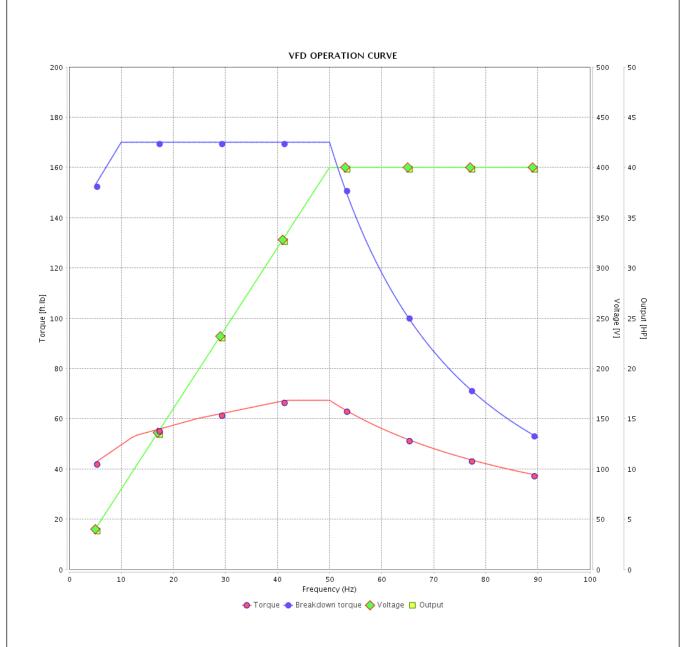
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484726

Catalog #: 05036OT3E324JM-W40



Performance : 400 V 50 Hz 2P IE3 Rated current : 56.6 A Moment of inertia (J) : 3.02 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class : 70.8 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

#### Three Phase Induction Motor - Squirrel Cage



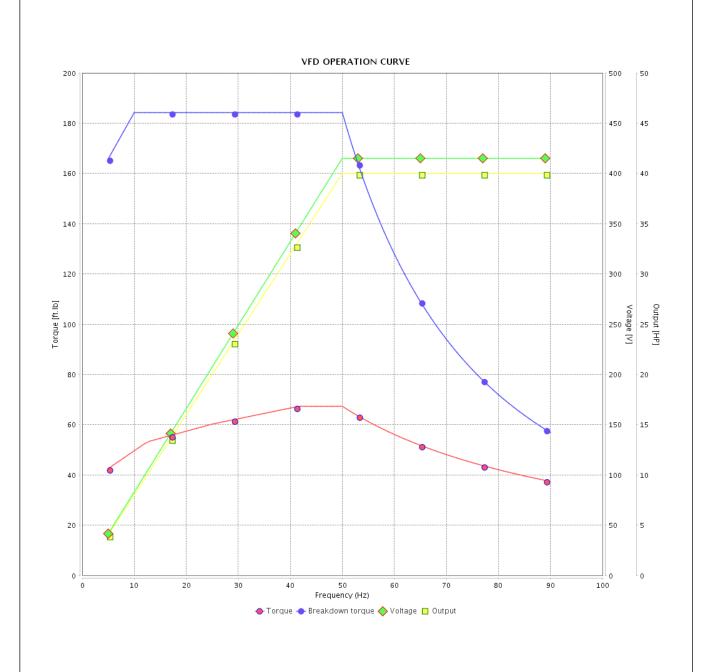
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484726

Catalog #: 05036OT3E324JM-W40



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 56.6 A		Moment of	Moment of inertia (J)		
LRC	: 6.	B Duty cycle		: Cont.(S1)		
Rated torque	: 70	0.8 ft.lb	• • •		: F	
Locked rotor torq	ue : 24	40 %	0 % Service factor		: 1.00	
Breakdown torqu	e : 20	60 %	7 % Temperature rise		: 80 K	
Rated speed	: 29	965 rpm	Design		: B	
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