DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484975

Catalog #: 06036OT3G326JM-W40

Frame : 324/6JM

Insulation class : F

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

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

Cooling method : IC01 - ODP

Mounting : F-1

Rotation¹ : Both (CW and CCW)

Starting method : Direct On Line Approx. weight³ : 485 lb

Approx. weight* : 485 lb Moment of inertia (J) : 3.82 sq.ft.l

Protection degree		: IP23	Moment of ine	ertia (J)	sq.ft.lb
Design		: B			
Output [HP]		60	50	50	50
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		71.0	69.8	68.7	69.5
L. R. Amperes [A]		447	482	460	473
LRC [A]		6.3x(Code G)	6.9x(Code H)	6.7x(Code H)	6.8x(Code H)
No load current [A]]	25.0	23.0	27.0	30.0
Rated speed [RPM	1]	3560 1.11	2960	2960	2965
Slip [%]	Slip [%]		1.33	1.33	1.17
Rated torque [ft.lb]		88.5	88.7	88.7	88.6
Locked rotor torqu	Locked rotor torque [%]		220	240	260
Breakdown torque	[%]	229	229	250	270
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		27s (cold) 15s (hot)	28s (cold) 16s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)
Noise level ²		75.0 dB(A)			
	25%	91.7	88.9	89.0	89.2
Efficiency (%)	50%	92.4	90.5	90.6	90.7
Liliciency (70)	75%	93.0	92.0	92.1	92.2
100%		93.6	93.7	93.7	93.7
	25%	0.48	0.50	0.43	0.38
Power Factor	50%	0.73	0.73	0.67	0.60
1 OWCI I actor	75%	0.82	0.82	0.77	0.72
	100%	0.85	0.86	0.83	0.79

<u>Drive end</u> <u>Non d</u> 6312 Z C3 621

Non drive end

6312 Z C3 6211 Z C3
Without Without

Bearing Seal Bearing Seal 19658 h 20000 h

Lubrication interval:19658 h20000 hLubricant amount:21 g11 gLubricant type:Mobil Polyrex EM

Foundation loads

Max. traction
Max. compression

Notes

Bearing type

Sealing

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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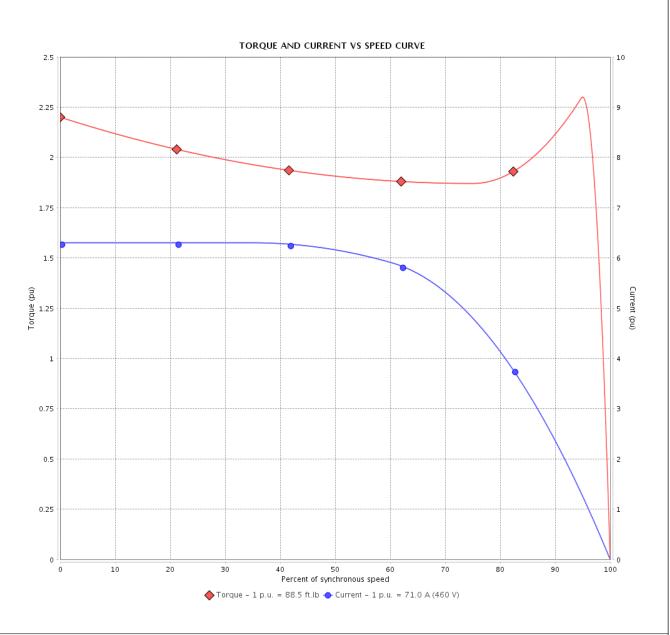
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484975

Catalog #: 06036OT3G326JM-W40



Performance : 460 V 60 Hz 2P Rated current : 71.0 A Moment of inertia (J) : 3.82 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 88.5 ft.lb : F Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 3560 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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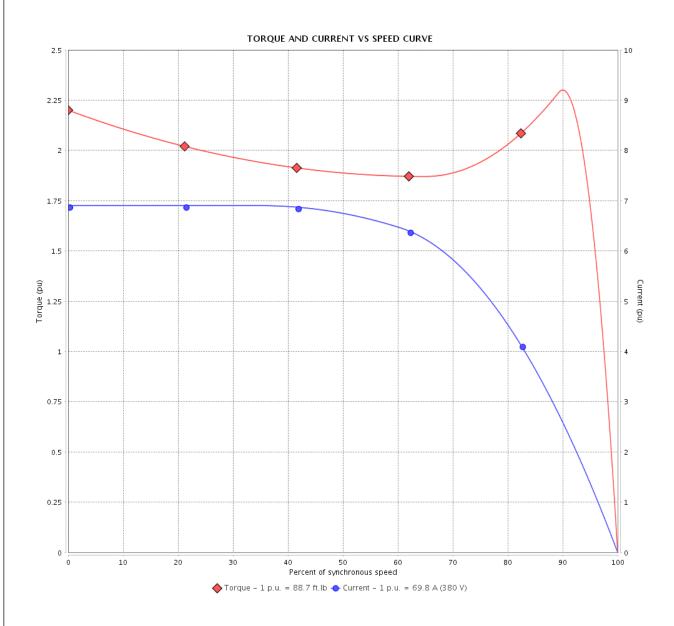
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484975

Catalog #: 06036OT3G326JM-W40



Performance : 380 V 50 Hz 2P IE3 Rated current : 69.8 A Moment of inertia (J) : 3.82 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : 88.7 ft.lb Insulation class : F Rated torque : 220 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 229 % Temperature rise : B Rated speed : 2960 rpm Design

Locked rotor time : 28s (cold) 16s (hot)

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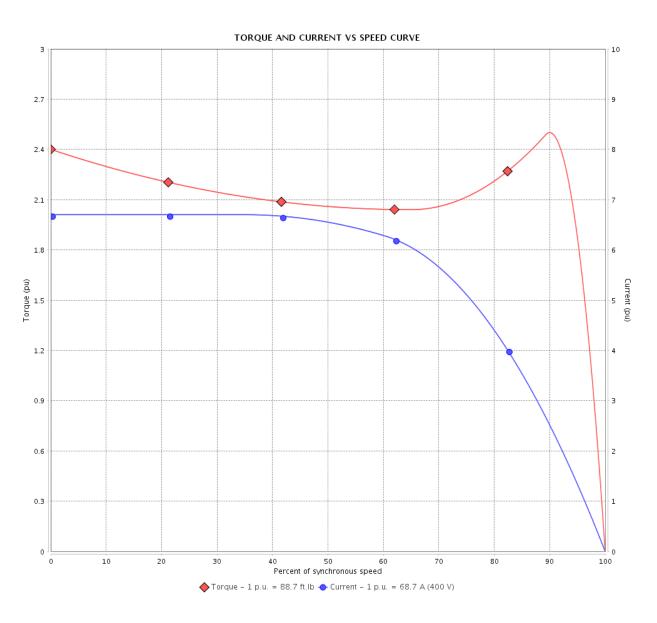
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484975

Catalog #: 06036OT3G326JM-W40



Performance	: 400 V 50 Hz 2P IE3			
Rated current	: 68.7 A	Moment of inertia (J)	: 3.82 sq.ft.lb	
LRC	: 6.7	Duty cycle	: Cont.(S1)	
Rated torque	: 88.7 ft.lb	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.00	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 2960 rpm	Design	: B	
•	·			

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 JM Pump NEMA Premium Product code: 14484975 Efficiency Three-Phase Catalog #: 06036OT3G326JM-W40 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed 🔷 Torque – 1 p.u. = 88.6 ft.lb 🔷 Current – 1 p.u. = 69.5 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 69.5 A Moment of inertia (J) : 3.82 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 88.6 ft.lb Insulation class Rated torque : F : 260 % Locked rotor torque Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B Locked rotor time : 23s (cold) 13s (hot) Date Performed Checked Rev. **Changes Summary**

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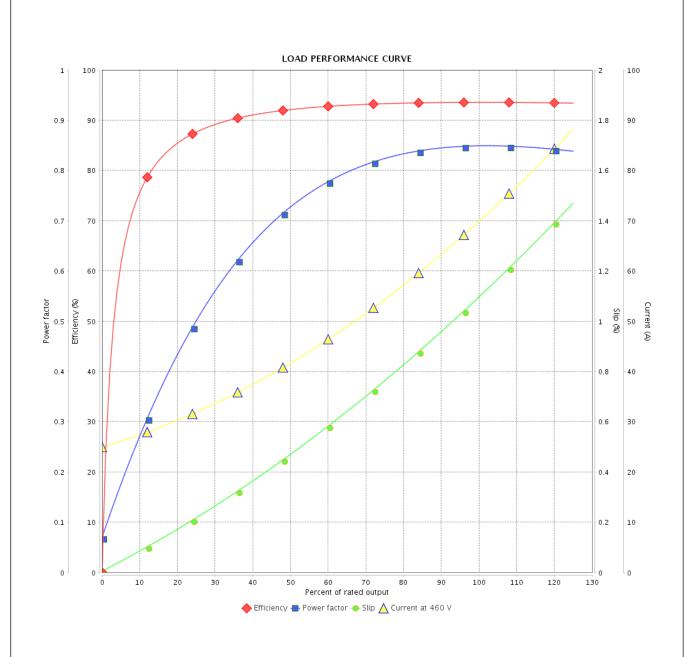
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484975

Catalog #: 06036OT3G326JM-W40



Performance	: 46	60 V 60 Hz 2P				
Rated current	: 7	1.0 A	Moment o	of inertia (J)	: 3.82 sq.ft.lb	
LRC	: 6.	.3	Duty cycle	9	: Cont.(S1)	
Rated torque	: 88	8.5 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 22	20 %	Service fa	ictor	: 1.25	
Breakdown torque	e : 22	: 229 % Temperature ris		ure rise	: 80 K	
Rated speed	: 3	560 rpm	Design		: B	
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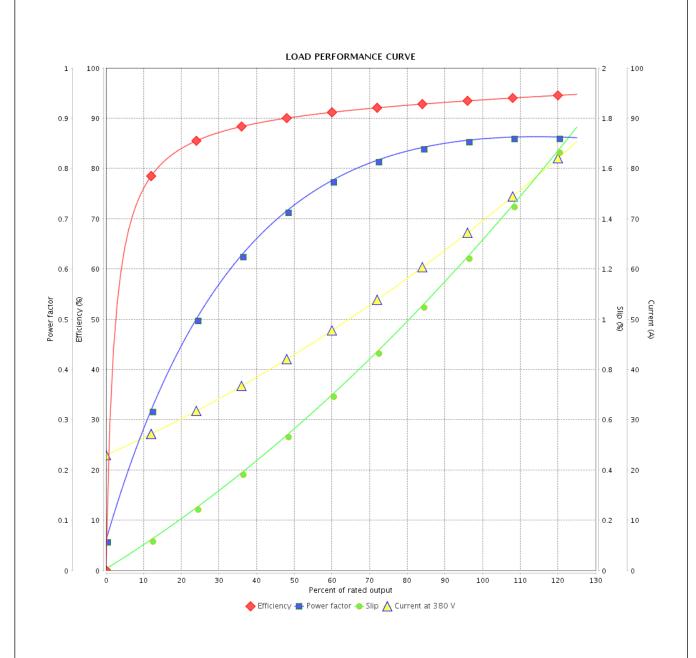
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484975

Catalog #: 06036OT3G326JM-W40

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 69.8 A : 6.9 : 88.7 ft.lb : 220 % : 229 % : 2960 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 3.82 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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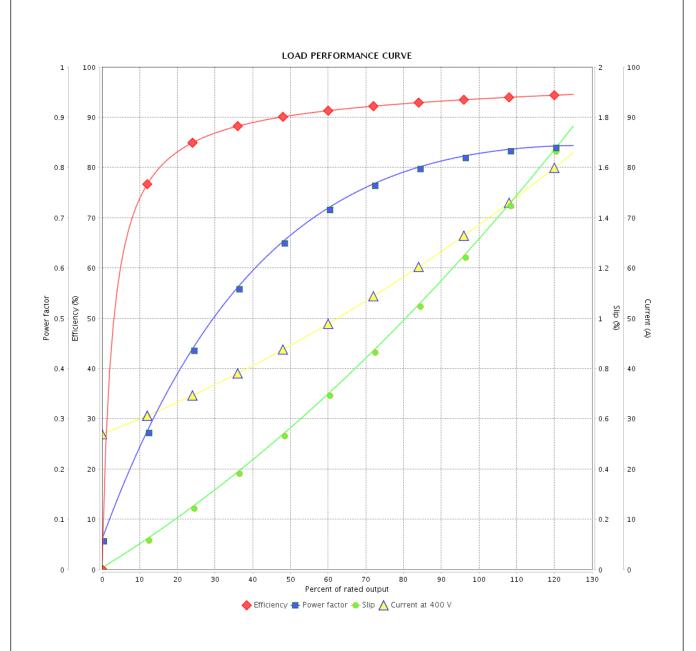
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484975

Catalog #: 06036OT3G326JM-W40



	·					
Performance	: 4	00 V 50 Hz 2P IE3	l			
Rated current	: 6	8.7 A Moment of ir		of inertia (J)	: 3.82 sq.ft.lb	
LRC	: 6	5.7	Duty cycle	•	: Cont.(S1)	
Rated torque	: 8	8.7 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	40 %	Service fa	ctor	: 1.00	
Breakdown torqu	e : 2	50 %	Temperati	ure rise	: 80 K	
Rated speed	: 2	960 rpm	Design		: B	
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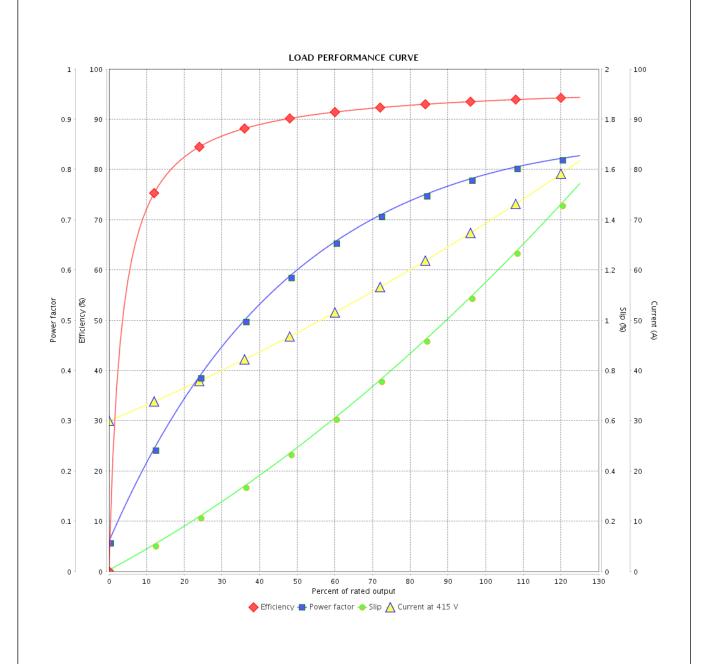
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484975

Catalog #: 06036OT3G326JM-W40



Performance	: •	415 V 50 Hz 2P IE3				
Rated current	: (69.5 A	Moment o	f inertia (J)	: 3.82 sq.ft.lb	
LRC	: (6.8	Duty cycle)	: Cont.(S1)	
Rated torque	: :	88.6 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie ::	260 %	Service fa	ctor	: 1.00	
Breakdown torque	::	270 %	Temperati	ıre rise	: 80 K	
Rated speed	::	2965 rpm	Design		: B	
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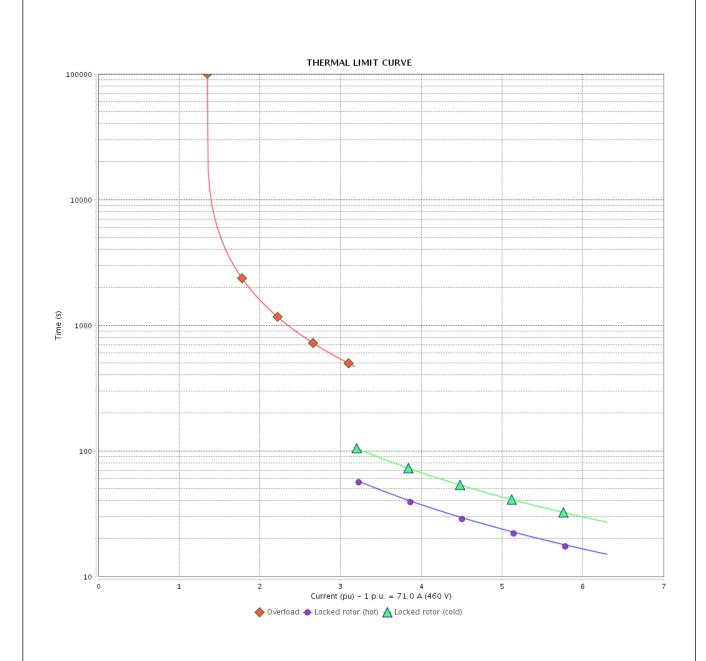


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Product line		· MAO IM Dump NEMA Drop	nium	Product code :	14484975	
Product line		: W40 JM Pump NEMA Pren Efficiency Three-Phase	IIIUIII	Floduct code .	14464975	
		·		Catalog # :	06036OT3G3	326JM-W40
Performance	:	460 V 60 Hz 2P				
Rated current LRC		71.0 A 6.3	Moment o	of inertia (J)	: 3.82 sq.ft.lb	
Rated torque		88.5 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torg	jue :	220 %	Service fa	actor	: 1.25	
Breakdown torqu Rated speed		229 % 3560 rpm	Temperati Design	ure rise	: 80 K : B	
		. 0000 грпп	Design			
Heating constant						
Cooling constant Rev.		Changes Summers		Performed	Checked	Date
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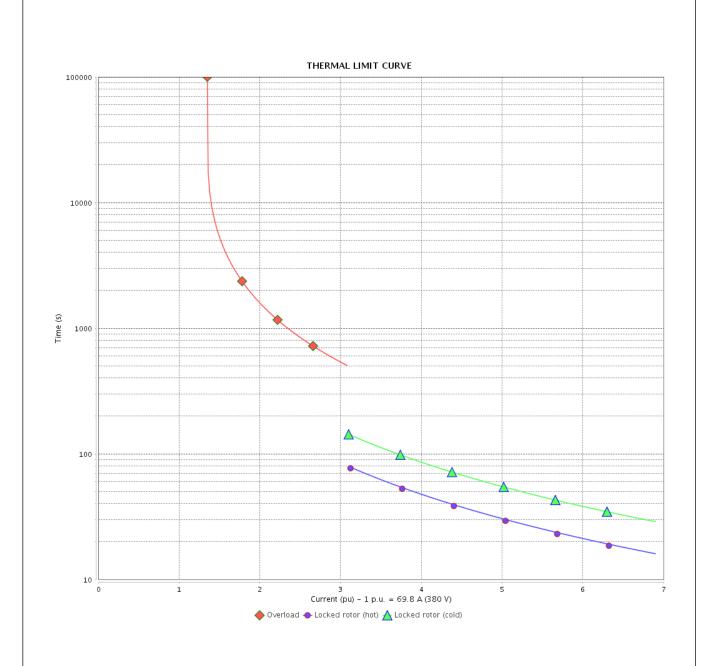


Customer	:					
Product line	: \ Et	N40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14484975 06036OT3G3	26JM-W40
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant	: 69 : 6. : 88 que : 22 : 29 : 29	30 V 50 Hz 2P IE3 9.8 A 9 3.7 ft.lb 20 % 29 % 960 rpm Changes Summary	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 3.82 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	Date
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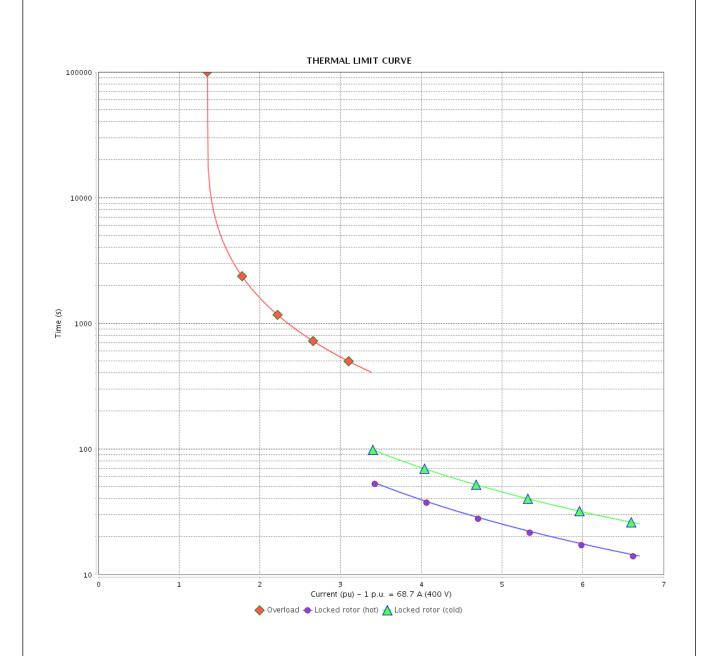


Customer		:				
Product line		: W40 JM Pump NEMA Pren Efficiency Three-Phase		Product code : Catalog # :	14484975 06036OT3G3	26JM-W40
Performance		400 V 50 Hz 2P IE3	N.4	Character (IX	0.00 (1.11	
Rated current LRC		68.7 A 6.7	Duty cycle	f inertia (J)	: 3.82 sq.ft.lb : Cont.(S1)	
Rated torque	:	88.7 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		240 % 250 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		2960 rpm	Design	ai 0 1100	: B	
Heating constant						
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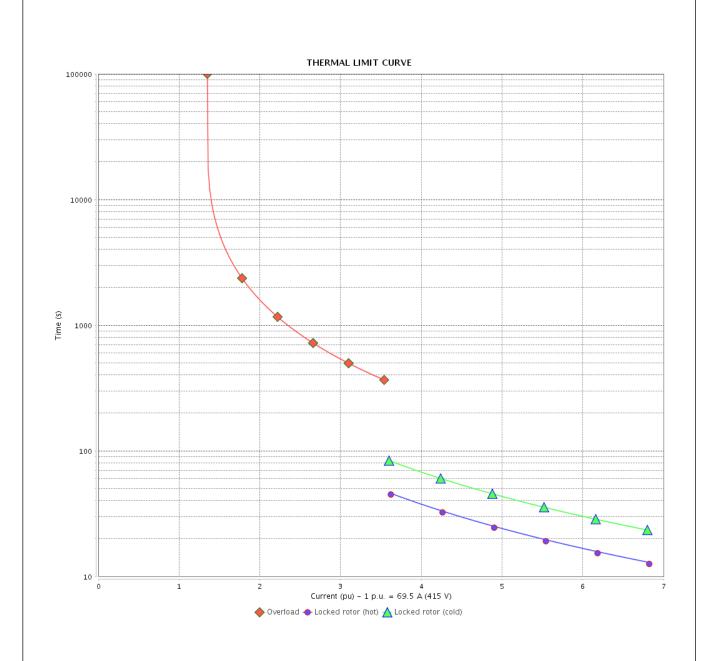


Customer	:					
Product line	: \ E	N40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14484975	
			(Catalog # :	06036OT3G3	26JM-W40
Performance	: 4	15 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6. : 88 ue : 26 e : 27	9.5 A 8 3.6 ft.lb 60 % 70 % 965 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 3.82 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant		Changes Comment	ı	Dorform	Charles -	Data
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Customer :

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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

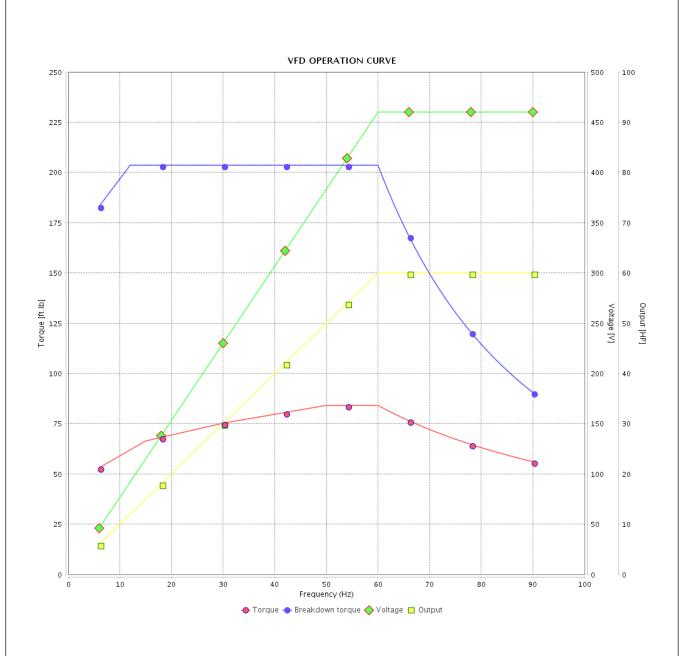
Product code: 14484975

Catalog #: 06036OT3G326JM-W40

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Performance	: 4	60 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 8 que : 2 ue : 2	1.0 A .3 8.5 ft.lb 20 % 29 % 560 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.82 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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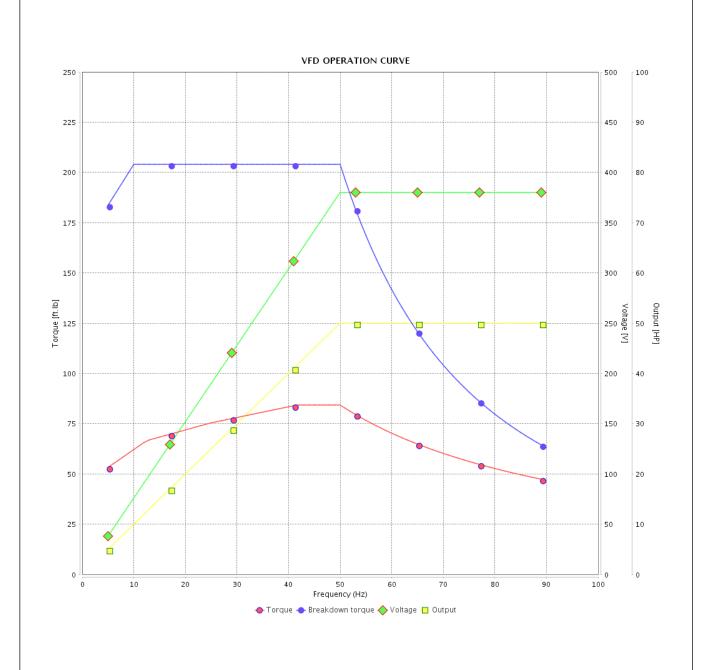
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484975

Catalog #: 06036OT3G326JM-W40

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Performance	: 380 V 50 Hz 2P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 69.8 A : 6.9 : 88.7 ft.lb : 220 % : 229 % : 2960 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.82 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
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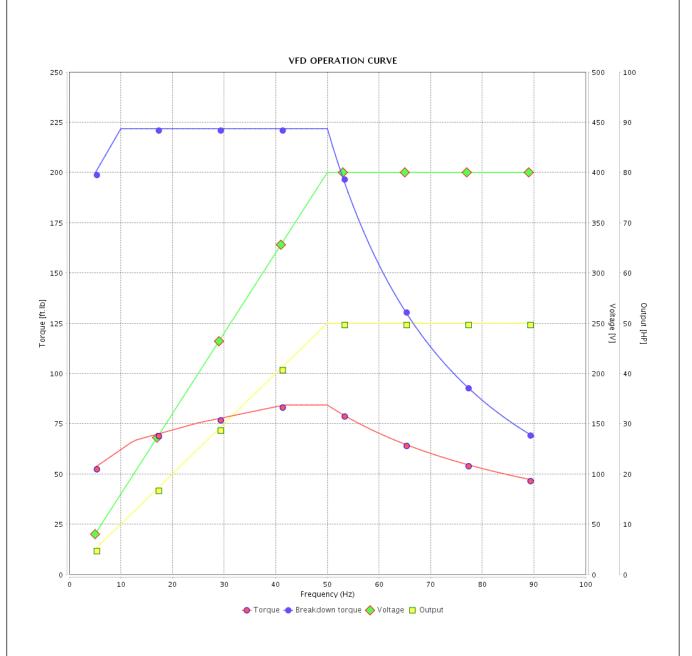
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484975

Catalog #: 06036OT3G326JM-W40

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D (400 \ / 50 \ \ . OD \ \ F0							
Performance	: 400 V 50 HZ 2P IE3	: 400 V 50 Hz 2P IE3						
Rated current LRC	: 68.7 A : 6.7	Moment of inertia (J) Duty cycle		: 3.82 sq.ft.lb : Cont.(S1)				
Rated torque	: 88.7 ft.lb : 240 %	Insulation class		:F `´				
Locked rotor torque Breakdown torque	: 250 %	Service factor Temperature rise		: 1.00 : 80 K				
Rated speed	: 2960 rpm	Design		: B				
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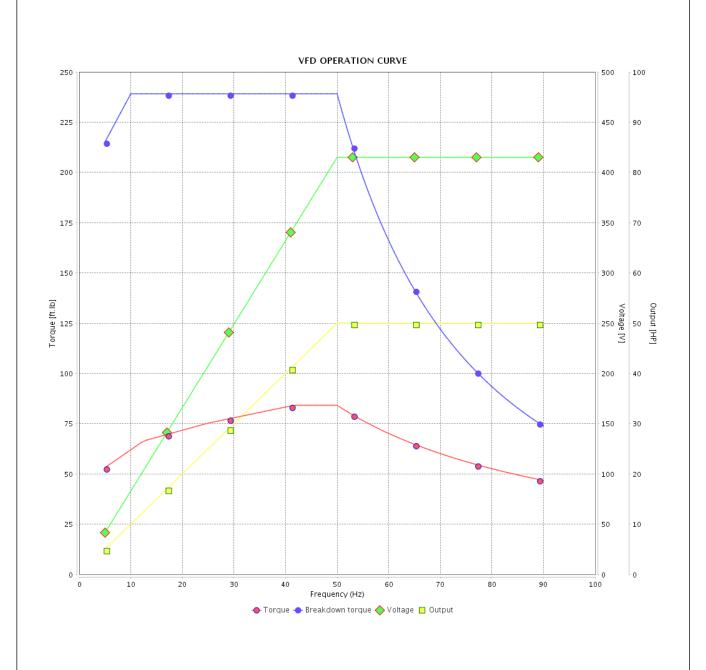
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Product code: 14484975

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: 415 V 50 Hz 2P IE3				
: 69.5 A	Moment of inertia (J)		: 3.82 sq.ft.lb	
: 6.8	1		: Cont.(S1)	
: 88.6 ft.lb	Insulation class		:F	
: 260 %	% Temperature rise		: 1.00	
: 270 %			: 80 K	
: 2965 rpm			: B	
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	: 69.5 A : 6.8 : 88.6 ft.lb : 260 % : 270 % : 2965 rpm	: 69.5 A Moment o : 6.8 Duty cycle : 88.6 ft.lb Insulation : 260 % Service fa : 270 % Temperatu : 2965 rpm Design	: 69.5 A Moment of inertia (J) : 6.8 Duty cycle : 88.6 ft.lb Insulation class : 260 % Service factor : 270 % Temperature rise : 2965 rpm Design	: 69.5 A Moment of inertia (J) : 3.82 sq.ft.lb : 6.8 Duty cycle : Cont.(S1) : 88.6 ft.lb Insulation class : F : 260 % Service factor : 1.00 : 270 % Temperature rise : 80 K : 2965 rpm Design : B Changes Summary Performed Checked

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