DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484692

Catalog #: 03012OT3E326JM-W40

Frame : 324/6JM 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. weight³ : 529 lb

Protection degree : IP23 Moment of inertia (J) : 9.56 sq.ft.lb

Protection degre	e	: IP23	Moment of ine	ertia (J) : 9.56	sq.ft.lb
Design		: B			
Output [HP]		30	25	25	25
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		72.0/36.0	36.5	35.5	34.6
L. R. Amperes [A]		454/227	223	238	235
LRC [A]		6.3x(Code G)	6.1x(Code G)	6.7x(Code H)	6.8x(Code H)
No load current [A	.]	29.6/14.8	14.6	15.8	16.8
Rated speed [RPN	Л]	1182	980	980	980
Slip [%]			2.00	2.00	2.00
Rated torque [ft.lb]		133	134	134	134
Locked rotor torqu	ie [%]	200	160	180	200
Breakdown torque	: [%]	240	229	260	280
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		30s (cold) 17s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)	23s (cold) 13s (hot)
Noise level ²		62.0 dB(A)			
	25%	91.7	91.2	91.2	91.4
Efficiency (9/)	50%	92.4	91.4	91.4	91.6
Efficiency (%)	75%	93.0	91.8	91.8	91.8
	100%	93.6	91.8	91.8	91.8
	25%	0.44	0.44	0.40	0.38
Power Factor	50%	0.70	0.70	0.66	0.63
FOWEI FACIOI	75%	0.79	0.80	0.77	0.75
	100%	0.82	0.84	0.82	0.81

Bearing type

Drive end Non drive end Found
6312 Z C3 6211 Z C3 Max. 1

Sealing : Without Without Max. compression

Bearing Seal Bearing Seal Lubrication interval : 20000 h 20000 h

Lubricant amount : 21 g 11 g
Lubricant type : Mobil Polyrex EM

Foundation loads Max. traction

Notes

USABLE @208V 79.6A SF 1.15 SFA 91.6A

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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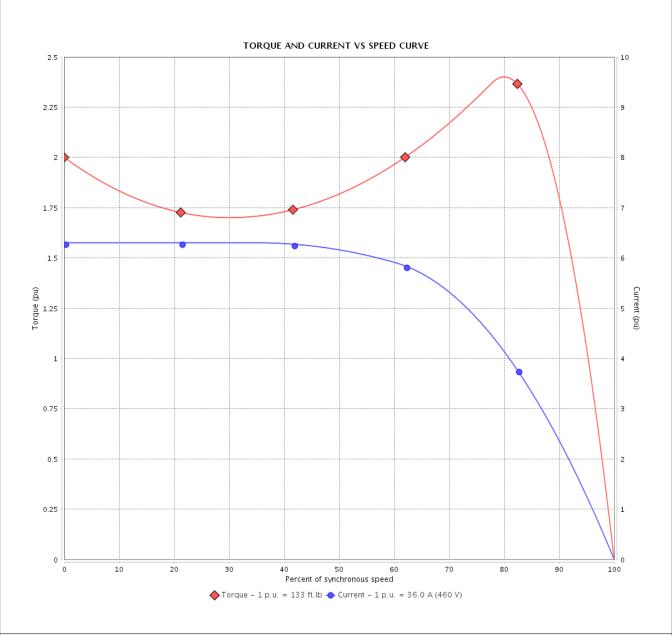
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484692

Catalog #: 03012OT3E326JM-W40



Performance : 230/460 V 60 Hz 6P Rated current : 72.0/36.0 A Moment of inertia (J) : 9.56 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 133 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1182 rpm Design : B

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

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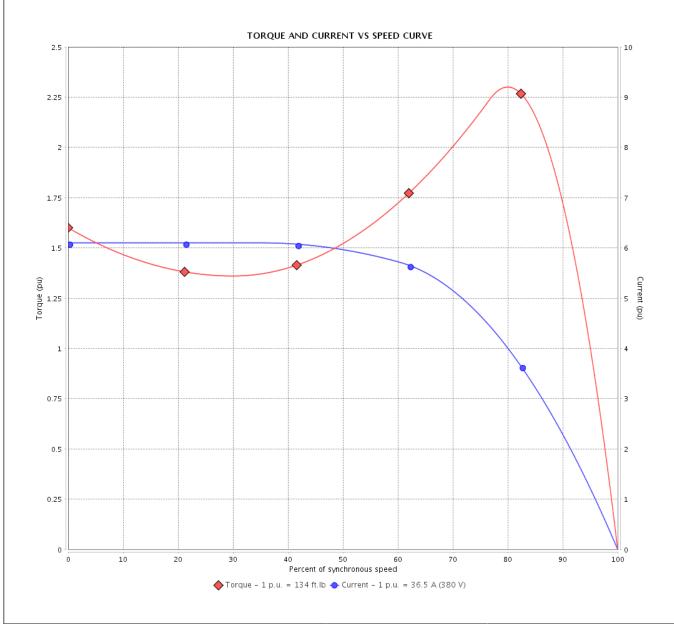
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484692

Catalog #: 03012OT3E326JM-W40



Performance : 380 V 50 Hz 6P IE3 Rated current : 36.5 A Moment of inertia (J) : 9.56 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 134 ft.lb : F : 160 % Locked rotor torque Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 980 rpm Design : B Locked rotor time : 25s (cold) 14s (hot)

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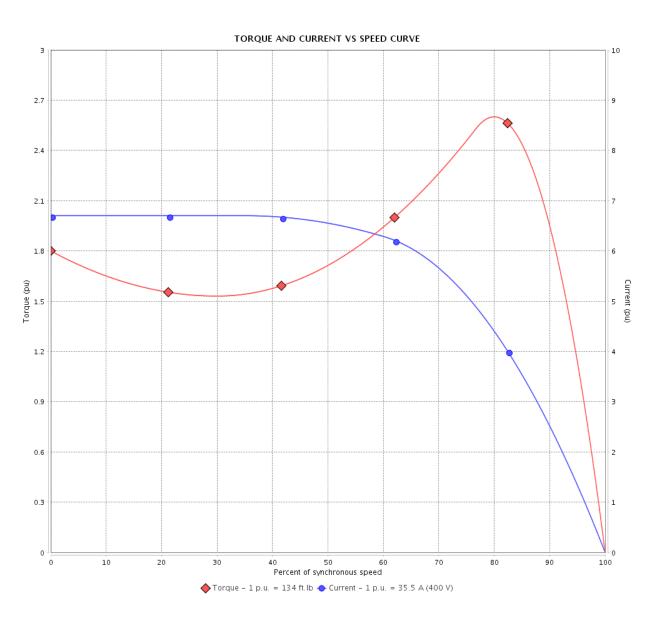
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484692

Catalog #: 03012OT3E326JM-W40



Performance	: 400 V 50 Hz 6P IE3			
Rated current	: 35.5 A	Moment of inertia (J)	: 9.56 sq.ft.lb	
LRC	: 6.7	Duty cycle	: Cont.(S1)	
Rated torque	: 134 ft.lb	Insulation class	: F	
Locked rotor torque	: 180 %	Service factor	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	
Locked rotor time	: 23s (cold) 13s (hot)			

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

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2.4									_	
2.1		•		•						7
1.8										
				·						
1.5									Ì	
1.2								-		·
0.9										
0.6										
0.3									`	
٥	10	20	30	40 Percen	50 t of synchronou:	60 speed	70	80	90	100
			A Torque		ft.lb 🔷 Current		6 A (415 V)			

Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 34.6 A	Moment of inertia (J)	: 9.56 sq.ft.lb	
LRC	: 6.8	Duty cycle	: Cont.(S1)	
Rated torque	: 134 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	
Locked rotor time	: 23s (cold) 13s (hot)			

Locked rotor time	e : 23s (cold) 13s (not)			
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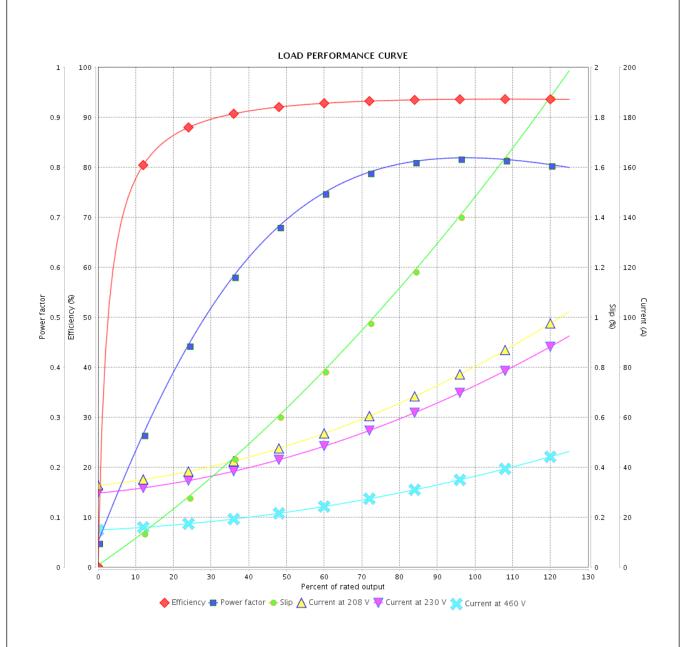
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484692

Catalog #: 03012OT3E326JM-W40



Performance : 230/460 V 60 Hz 6P : 72.0/36.0 A Rated current Moment of inertia (J) : 9.56 sq.ft.lb **LRC** Duty cycle : 6.3 : Cont.(S1) Insulation class Rated torque : 133 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1182 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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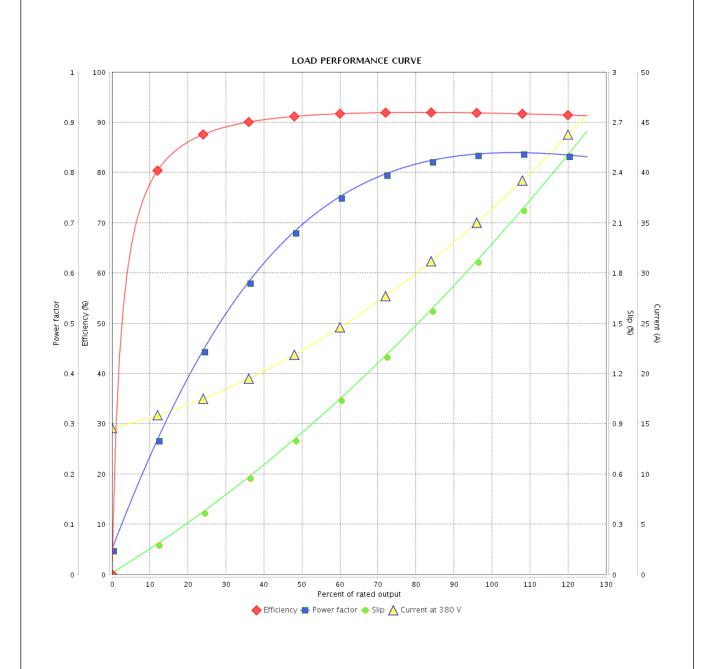
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484692

Catalog #: 03012OT3E326JM-W40

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Performance	: 380 V 50 Hz 6P IE3			
Rated current	: 36.5 A	Moment of inertia (J)	: 9.56 sq.ft.lb	
LRC	: 6.1	Duty cycle	: Cont.(S1)	
Rated torque	: 134 ft.lb	Insulation class	: F	
Locked rotor torque	: 160 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	ture rise : 80 K	
Rated speed	: 980 rpm	Design	: B	
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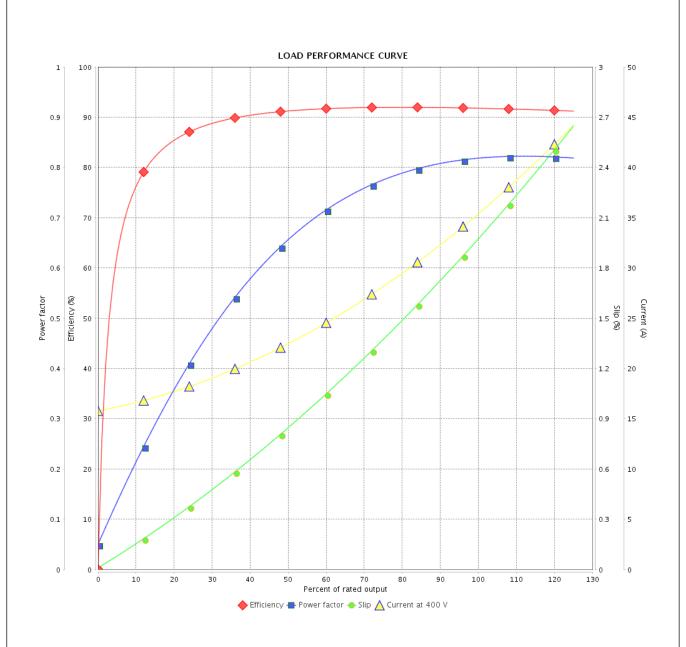
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484692

Catalog #: 03012OT3E326JM-W40



Performance : 400 V 50 Hz 6P IE3 Rated current : 35.5 A Moment of inertia (J) : 9.56 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 134 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 980 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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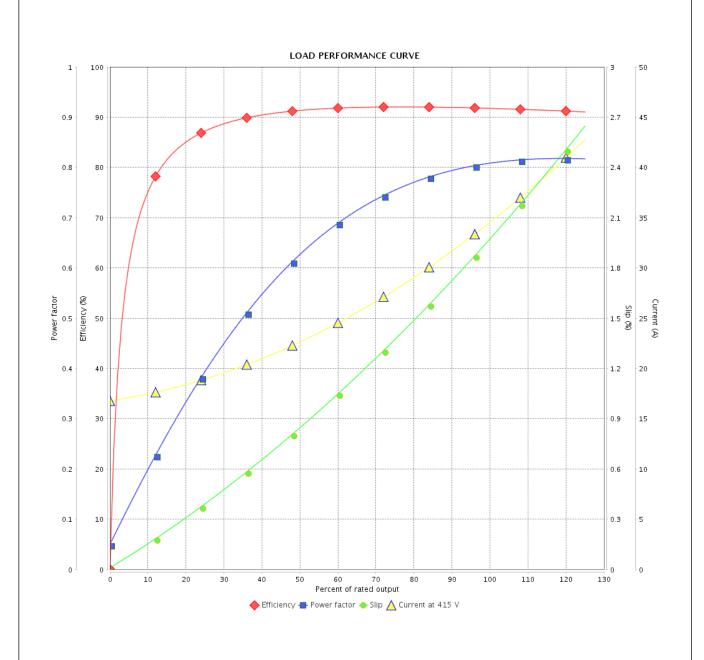
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484692

Catalog #: 03012OT3E326JM-W40

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Performance	: 415 V 50 Hz 6P IE3				
Rated current	: 34.6 A	Moment of	inertia (J)	: 9.56 sq.ft.lb	
LRC	: 6.8	Duty cycle		: Cont.(S1)	
Rated torque	: 134 ft.lb	Insulation c	lass	: F	
Locked rotor torque	: 200 %	Service factor		: 1.00	
Breakdown torque	: 280 %	Temperature rise Design		: 80 K	
Rated speed	: 980 rpm			: B	
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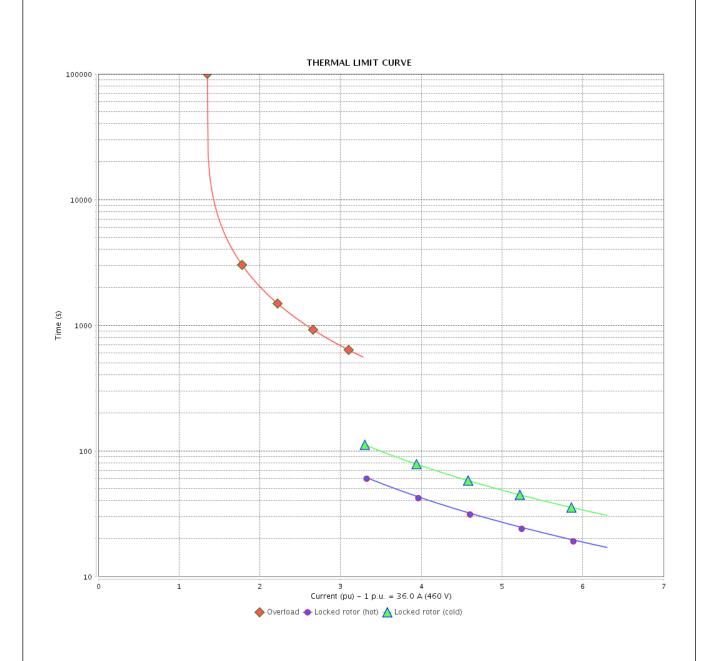


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Product line	: \ Et	N40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14484692	20 114 1140
				Catalog # :	03012OT3E32	26JIVI-VV4U
Performance		30/460 V 60 Hz 6P				
Rated current LRC	: 72 : 6.	2.0/36.0 A 3	Moment of Duty cycle	f inertia (J)	: 9.56 sq.ft.lb : Cont.(S1)	
Rated torque	: 13	33 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		00 % 40 %	Service far Temperatu		: 1.25 : 80 K	
Rated speed		182 rpm	Design		: B	
Heating constant						
Cooling constant			Т			
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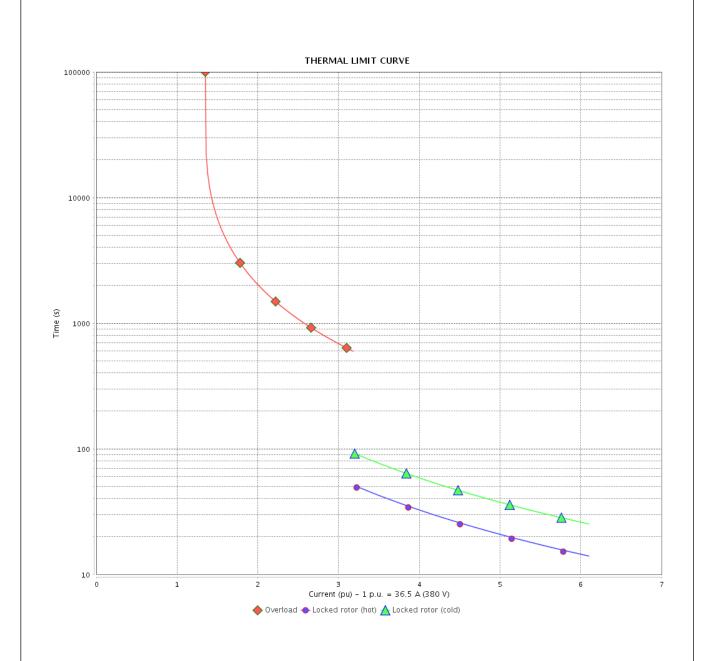


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Product line	: \ E ⁻	W40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14484692 03012OT3E32	26 IM W/40
						-SOIVI VVTO
Performance	: 38	30 V 50 Hz 6P IE3				
Rated current LRC	: 36 : 6.	6.5 A	Moment of	f inertia (J)	: 9.56 sq.ft.lb	
Rated torque	: 13	34 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		60 %	Service fac		: 1.00	
Breakdown torqu Rated speed		29 % 30 rpm	Temperatu Design	115E	: 80 K : B	
Heating constant	<u> </u>					
Cooling constant	:		Г			
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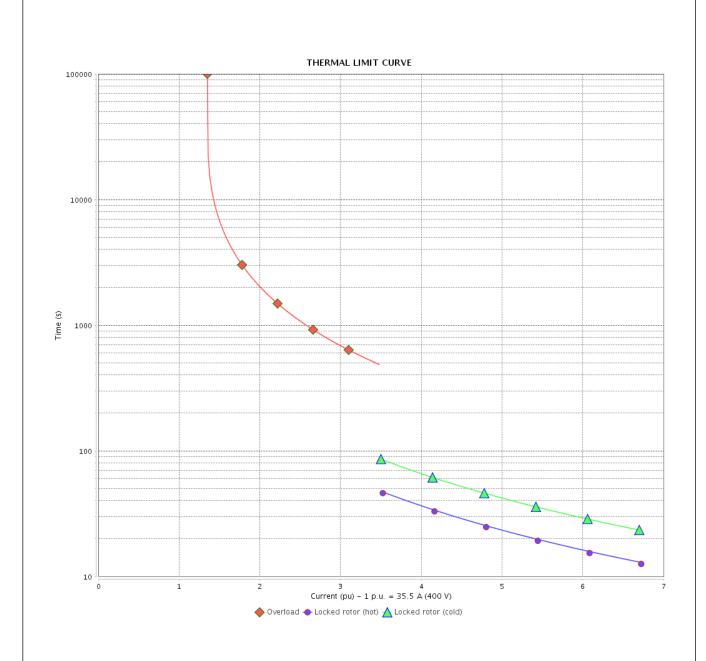


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Customer	:				
Product line	: W40 JM Pump NEMA Prem Efficiency Three-Phase		Product code :	14484692	
			Catalog # :	03012OT3E3	326JM-W40
Performance	: 400 V 50 Hz 6P IE3				
LRC Rated torque Locked rotor torque Breakdown torque	: 35.5 A : 6.7 : 134 ft.lb : 180 % : 260 % : 980 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.56 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
	•	- 5			
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Cooling constant	Changas Summani		Dorformod	Chackad	Doto
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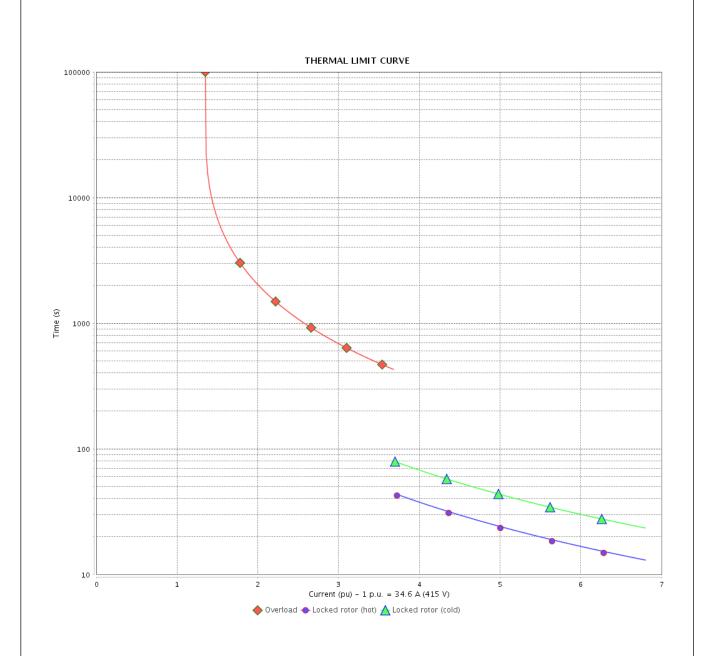


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Customer	:					
Product line		V40 JM Pump NEMA Prem ficiency Three-Phase	ium f	Product code :	14484692	
		ilciency Tillee-Filase	(Catalog # :	03012OT3E3	26JM-W40
Performance		5 V 50 Hz 6P IE3			-	
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6. : 13 e : 20 : 28	i.6 A 8 84 ft.lb 90 % 80 %	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 9.56 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant					,	
Cooling constant						
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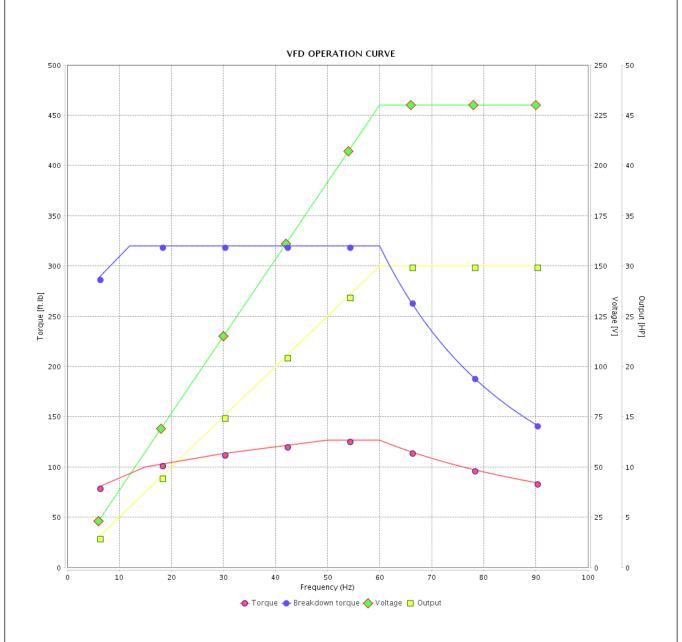
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484692

Catalog #: 03012OT3E326JM-W40



Performance : 230/460 V 60 Hz 6P : 72.0/36.0 A Rated current Moment of inertia (J) : 9.56 sq.ft.lb **LRC** Duty cycle : 6.3 : Cont.(S1) Insulation class : 133 ft.lb : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1182 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

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Three Phase Induction Motor - Squirrel Cage



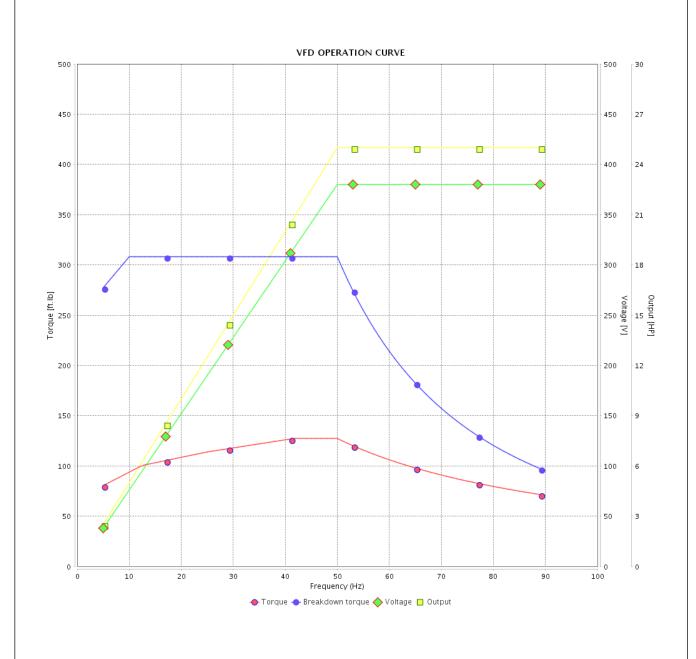
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

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Catalog #: 03012OT3E326JM-W40



Performance	: 3	80 V 50 Hz 6P IE3				
Rated current	: 3	: 36.5 A Momer		f inertia (J)	: 9.56 sq.ft.lb	
LRC	: 6	.1	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	34 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1	60 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	29 %	7 Temperature rise		: 80 K	
Rated speed	: 9	80 rpm	Design		: B	
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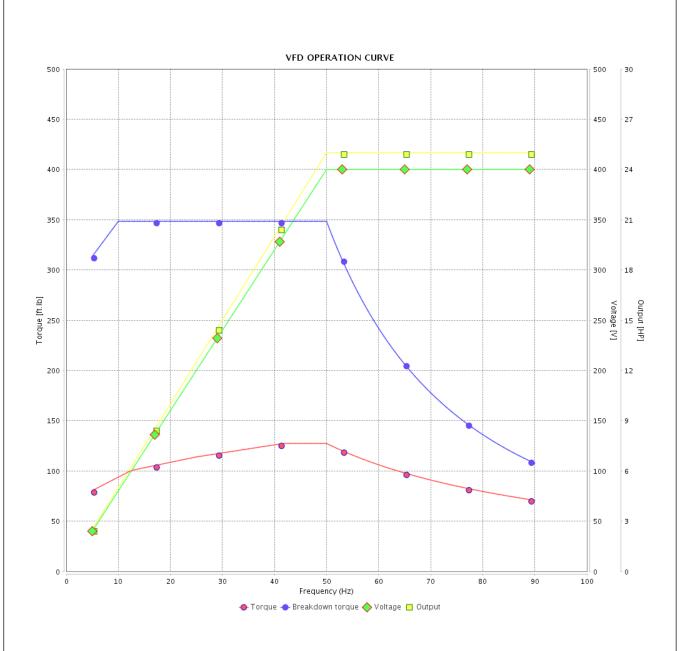
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Performance : 400 V 50 Hz 6P IE3 Rated current : 35.5 A Moment of inertia (J) : 9.56 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class : 134 ft.lb : F Rated torque Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 980 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

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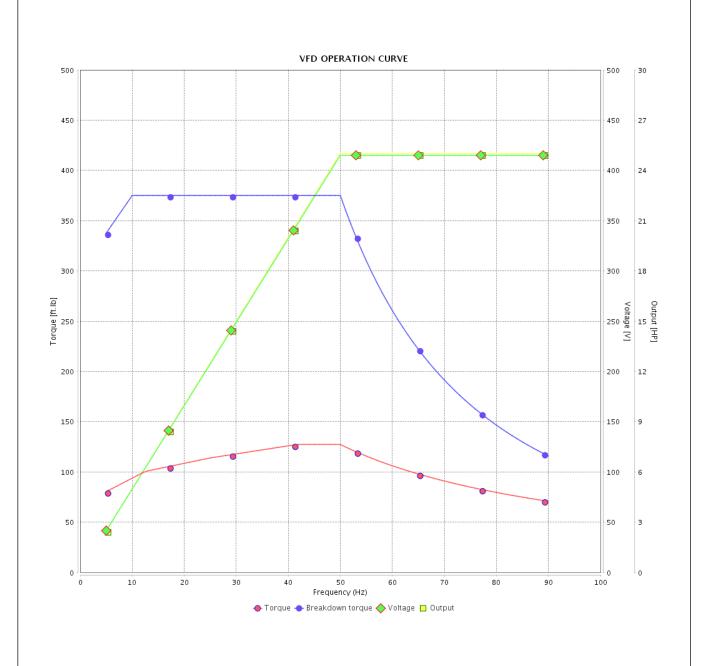
Customer

Product line : W40 JM Pump NEMA Premium

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Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	: 34.6 A		Moment of	of inertia (J)	: 9.56 sq.ft.lb	
LRC	: 6.	8	Duty cycle	е	: Cont.(S1)	
Rated torque	: 13	34 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 20	00 %	Service fa	actor	: 1.00	
Breakdown torqu	ie : 28	30 %	0 % Temperature rise		: 80 K	
Rated speed	: 98	30 rpm	Design		: B	
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