### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484722

Catalog #: 04036OT3E286JM-W40

Frame : 284/6JM

Insulation class

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

: 1000 m.a.s.l. Altitude

Cooling method : IC01 - ODP

Mounting : F-1 Rotation<sup>1</sup> : Both (CW and CCW)

Starting method : Direct On Line

Approx. weight<sup>3</sup> : 364 lb

Protection degre	е	ertia (J) : 2.02	sq.ft.lb		
Design		: B			
Output [HP]		40	30	30	30
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		93.6/46.8	41.9	40.7	40.2
L. R. Amperes [A]		608/304	302	309	310
LRC [A]		6.5x(Code G)	7.2x(Code H)	7.6x(Code J)	7.7x(Code J)
No load current [A	.]	29.8/14.9	14.3	15.8	17.0
Rated speed [RPI	Л]	3540	2950	2955	2960
Slip [%]		1.67	1.67	1.50	1.33
Rated torque [ft.lb]	]	59.3	53.4	53.3	53.2
Locked rotor torqu	ie [%]	190	210	229	250
Breakdown torque	: [%]	260	300	330	360
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		14s (cold) 8s (hot)	12s (cold) 7s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)
Noise level <sup>2</sup>		73.0 dB(A)			
	25%	91.5	88.6	88.7	88.9
Efficiency (%)	50%	91.7	90.0	90.1	90.2
Efficiency (%)	75%	92.4	91.4	91.4	91.5
	100%		92.8	92.8	92.8
	25%	0.51	0.49	0.45	0.41
Power Factor	50%	0.76	0.73	0.70	0.65
FOWEI FACIOI	75%	0.84	0.82	0.79	0.76
	100%	0.87	0.86	0.84	0.82
		Daire and Manda	ive and Farmdetian les		

Drive end 6311 Z C3 6211 Z C3

Without Without

Bearing Seal Bearing Seal

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

Non drive end Foundation loads Max. traction Max. compression

Notes

Bearing type

Sealing

USABLE @208V 104A SF 1.15 SFA 119A

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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#### Three Phase Induction Motor - Squirrel Cage



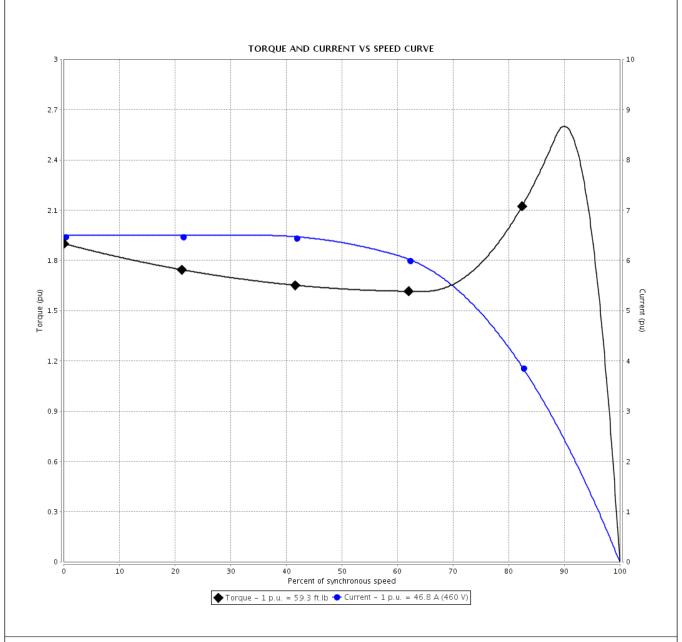
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484722

Catalog #: 04036OT3E286JM-W40



: 230/460 V 60 Hz 2P Performance Rated current : 93.6/46.8 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 59.3 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 190 % : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3540 rpm Design : B

Locked rotor time : 14s (cold) 8s (hot)

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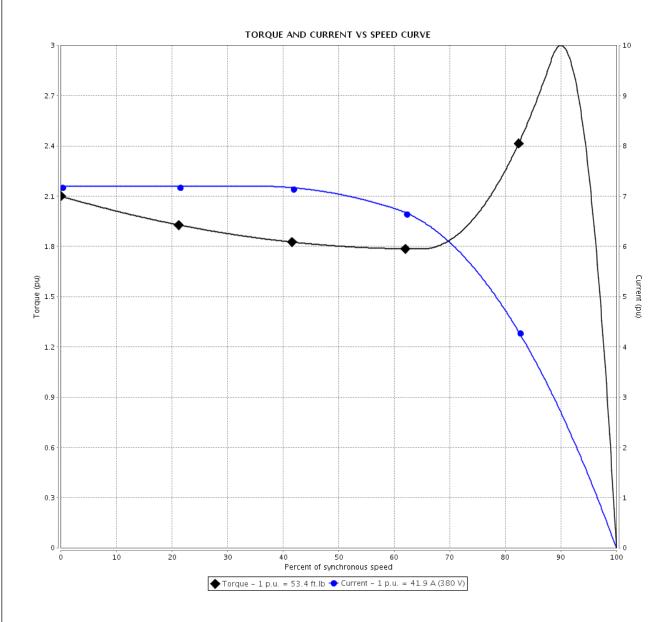
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484722

Catalog #: 04036OT3E286JM-W40



Performance : 380 V 50 Hz 2P IE3 Rated current : 41.9 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 53.4 ft.lb : F : 210 % Locked rotor torque Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2950 rpm Design : B

Locked rotor time : 12s (cold) 7s (hot)

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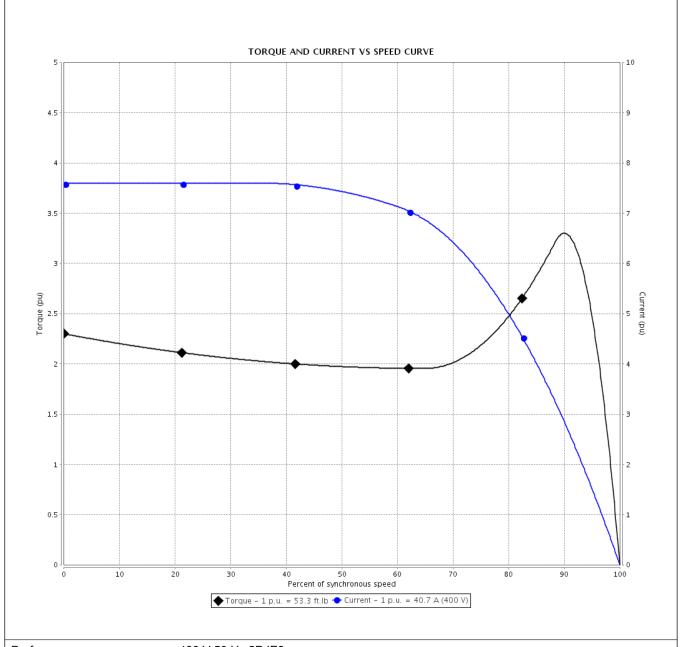
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484722

Catalog #: 04036OT3E286JM-W40



: 400 V 50 Hz 2P IE3 Performance Rated current : 40.7 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : 53.3 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.00

Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 2955 rpm Design : B

Locked rotor time : 14s (cold) 8s (hot)

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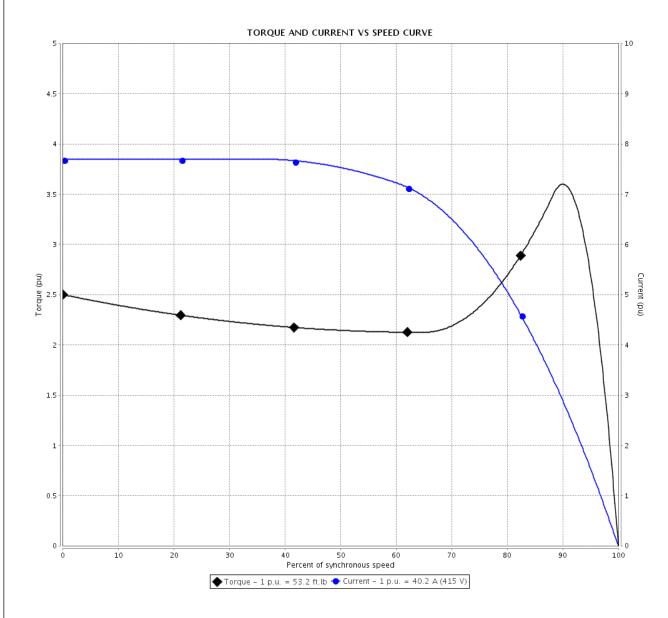
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484722

Catalog #: 04036OT3E286JM-W40



Performance : 415 V 50 Hz 2P IE3 Rated current : 40.2 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 53.2 ft.lb Insulation class Rated torque : F : 250 % Locked rotor torque Service factor : 1.00 Breakdown torque : 360 % Temperature rise : 80 K : B Rated speed : 2960 rpm Design Locked rotor time : 14s (cold) 8s (hot)

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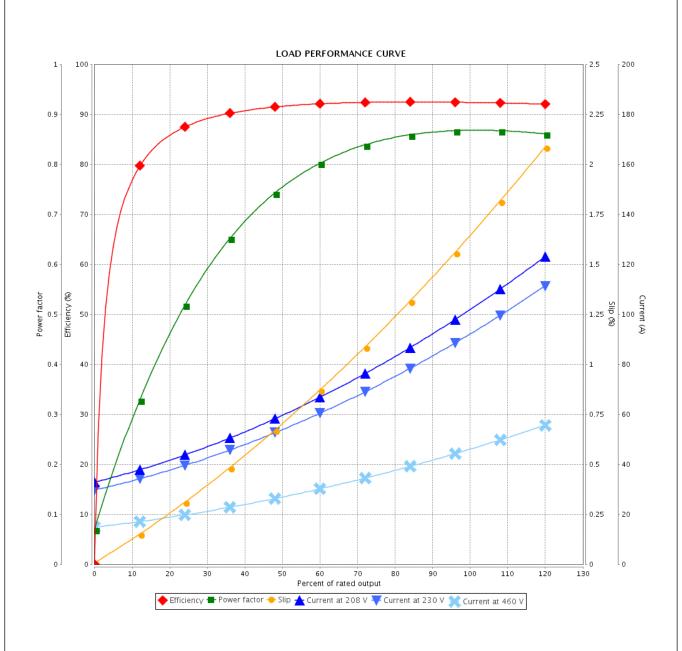
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484722

Catalog #: 04036OT3E286JM-W40

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Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 93.6/46.8 A : 6.5 : 59.3 ft.lb : 190 % : 260 % : 3540 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.02 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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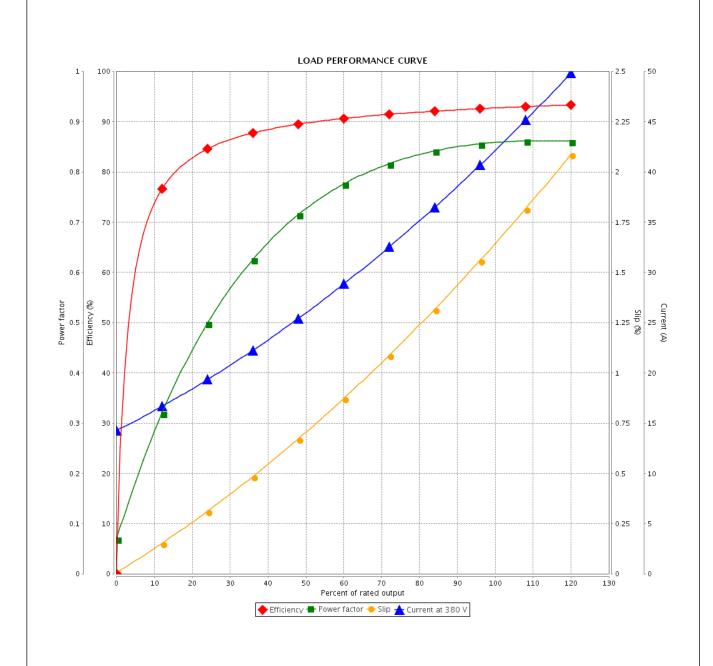
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484722

Catalog #: 04036OT3E286JM-W40



Performance	:	380 V 50 Hz 2P IE3				
Rated current	:	41.9 A	Moment o	f inertia (J)	: 2.02 sq.ft.lb	
LRC	:	7.2	Duty cycle	)	: Cont.(S1)	
Rated torque	:	53.4 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	210 %	Service fa	ctor	: 1.00	
Breakdown torque	:	: 300 % Temperature		re rise : 80 K		
Rated speed	:	2950 rpm	Design		: B	
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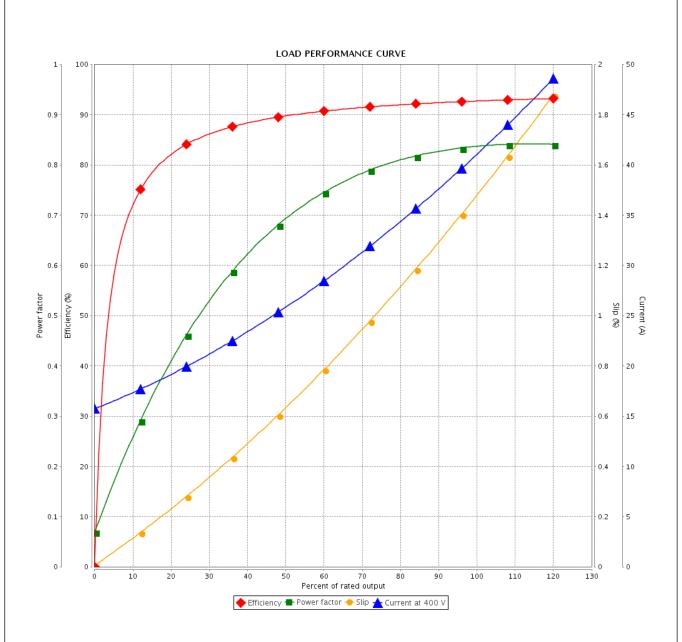
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484722

Catalog #: 04036OT3E286JM-W40



Performance	: 400 V 50 Hz 2P IE3				
Rated current	: 40.7 A	Moment of	f inertia (J)	: 2.02 sq.ft.lb	
LRC	: 7.6	Duty cycle		: Cont.(S1)	
Rated torque	: 53.3 ft.lb	Insulation	class	: F	
Locked rotor torque	: 229 %	Service factor		: 1.00	
Breakdown torque	: 330 %	Temperature rise		: 80 K	
Rated speed	: 2955 rpm	2955 rpm Design		: B	
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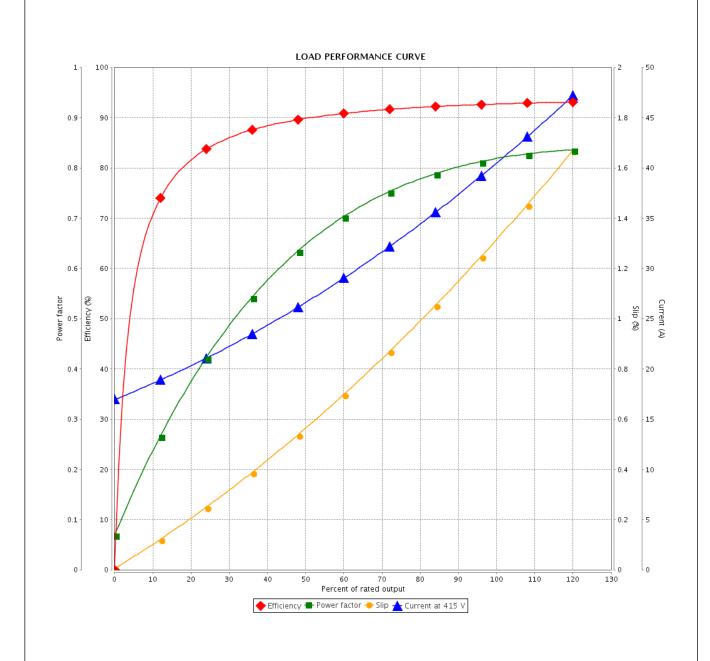
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484722

Catalog #: 04036OT3E286JM-W40



Performance : 415 V 50 Hz 2P IE3						
Rated current		40.2 A	A Moment of inertia (J)		: 2.02 sq.ft.lb	
LRC	:	7.7	Duty cycle	•	: Cont.(S1)	
Rated torque		53.2 ft.lb	Insulation	class	: F	
Locked rotor tord	que :	250 %	Service fa	ictor	: 1.00	
Breakdown torqu	ie :	360 %	Temperat	Temperature rise		
Rated speed	:	2960 rpm	Design		: B	
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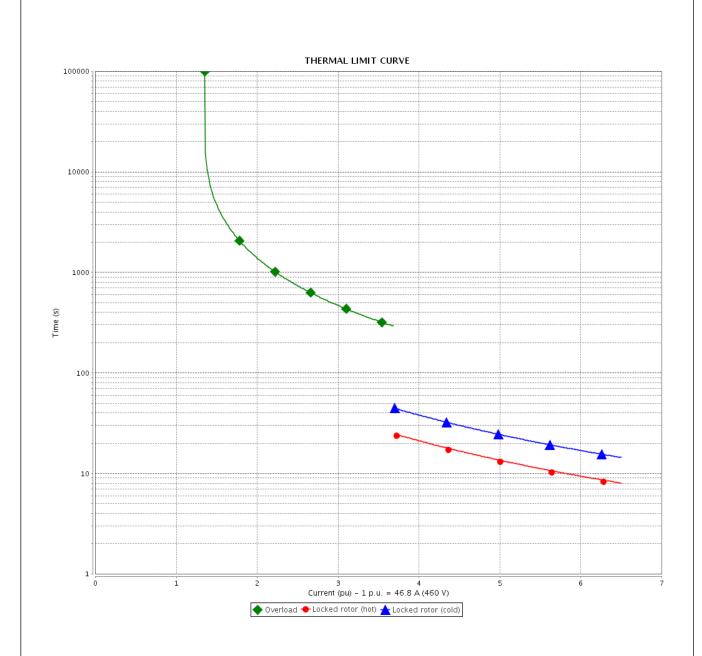


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Customer	:					
Product line		W40 JM Pump NEMA Pren	nium	Product code :	14484722	
	Ŀ	Efficiency Three-Phase		Catalog # :	04036OT3E28	86JM-W40
Performance	: 2	230/460 V 60 Hz 2P				
Rated current		93.6/46.8 A	Moment o	f inertia (J)	: 2.02 sq.ft.lb	
LRC	: 6	6.5	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque Locked rotor tord		59.3 ft.lb 190 %	Insulation Service fa		: F : 1.25	
Breakdown torqi		260 %	Temperatu		: 80 K	
Rated speed		3540 rpm	Design		: B	
Heating constan	t					
Cooling constan						
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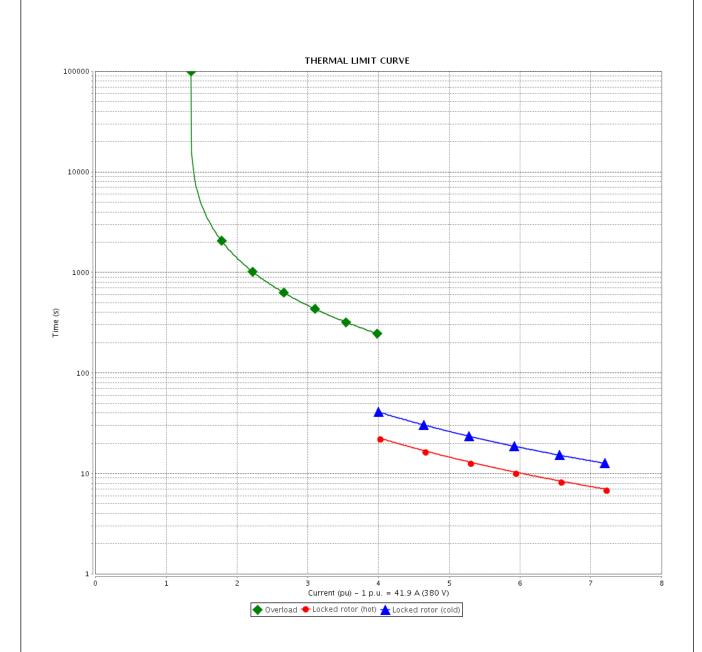


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Product line		· WAO IM Dump NEMA Drop	mium	Product code :	14484722	
Product line		: W40 JM Pump NEMA Prer Efficiency Three-Phase	Illulli	Froduct code .	14404722	
		·		Catalog # :	04036OT3E2	86JM-W40
Performance		: 380 V 50 Hz 2P IE3	1.4	<b>6</b>	0.00 ***	
Rated current LRC		: 41.9 A : 7.2	Moment of Duty cycle	of inertia (J)	: 2.02 sq.ft.lb : Cont.(S1)	
Rated torque		: 53.4 ft.lb	Insulation	class	: F	
Locked rotor toro		: 210 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 300 % : 2950 rpm	Temperate Design	ure rise	: 80 K : B	
		r	35.3			
Heating constant						
Cooling constant Rev.		Changes Summers		Performed	Checked	Date
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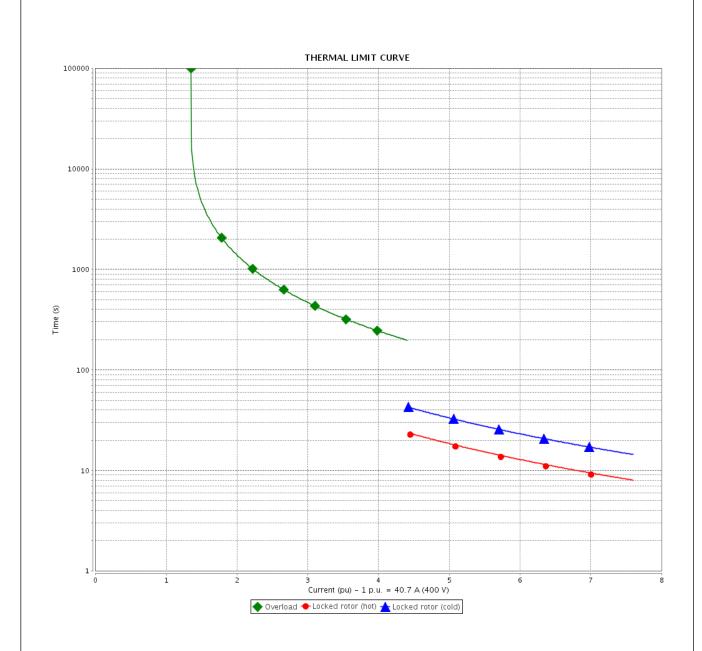


Customer	:					
Product line	: \ E <sup>;</sup>	N40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14484722 04036OT3E28	86 IM-W/40
Performance		00 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu	: 7. : 50 ue : 22 ie : 30	3.3 ft.lb 29 % 30 %	Moment of Duty cycle Insulation Service fac Temperatu	class	: 2.02 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed		955 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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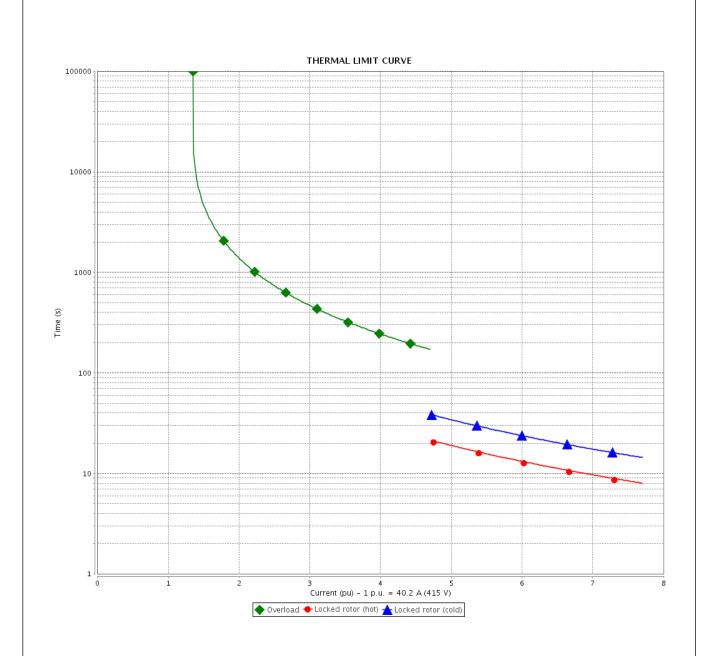


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Product line	: \ E1	W40 JM Pump NEMA Prem		Product code :	14484722 04036OT3E28	PE IM WAO
					04000013L20	JOUINI VVTU
Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 40	0.2 A	Moment of	f inertia (J)	: 2.02 sq.ft.lb	
LRC Rated torque		3.2 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torq	jue : 25	50 %	Service fa	ctor	: 1.00	
Breakdown torqu Rated speed		60 % 960 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant						
Cooling constant			,			
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#### Three Phase Induction Motor - Squirrel Cage



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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

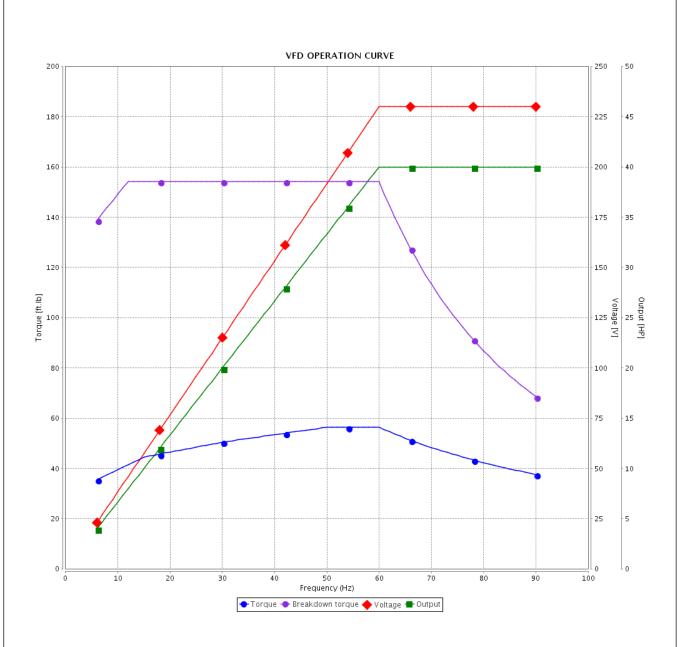
Product code: 14484722

Catalog #: 04036OT3E286JM-W40

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Performance	:	: 230/460 V 60 Hz	2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	ue le	: 93.6/46.8 A : 6.5 : 59.3 ft.lb : 190 % : 260 % : 3540 rpm	Du Ins Se Te	oment of uty cycle sulation ervice fac emperatu esign	class ctor	: 2.02 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



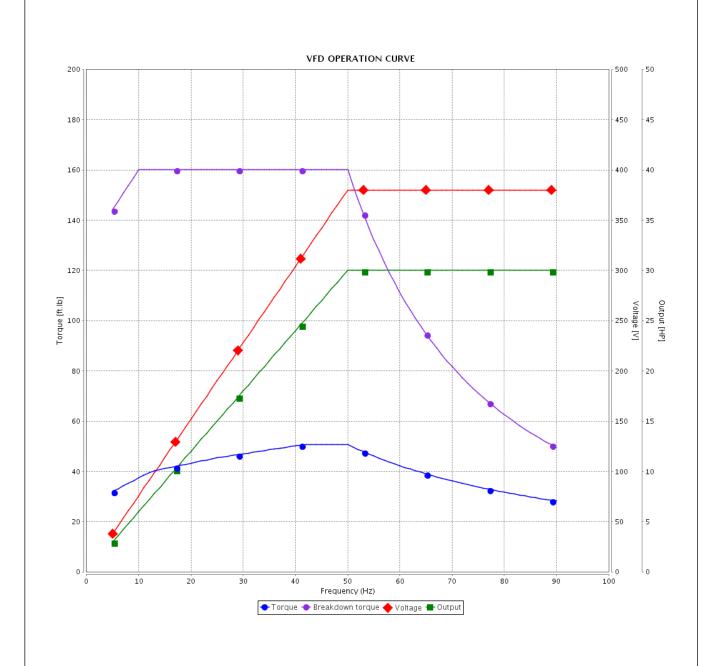
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484722

Catalog #: 04036OT3E286JM-W40



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	: 4	1.9 A	1.9 A Moment of inertia (		: 2.02 sq.ft.lb	
LRC	: 7.	2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 53	3.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	10 %	Service fa	ctor	: 1.00	
Breakdown torque	: 30	00 %	Temperature rise		: 80 K	
Rated speed	: 29	950 rpm	Design		: B	
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

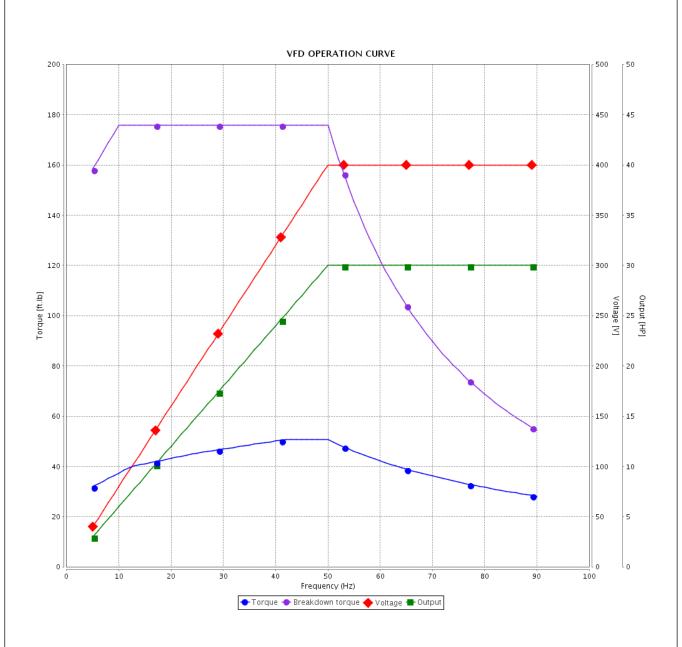
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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40.7 A : 7.6 : 53.3 ft.lb : 229 % : 330 % : 2955 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.02 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



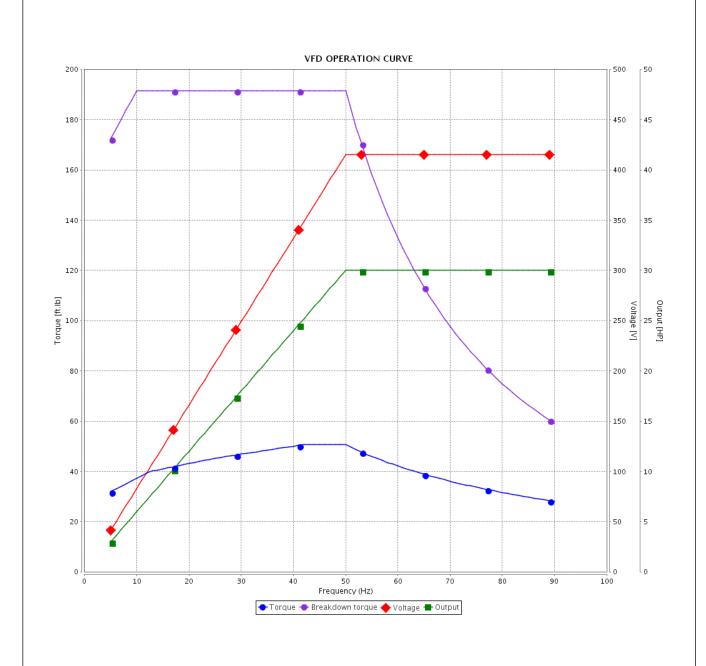
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484722

Catalog #: 04036OT3E286JM-W40



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 40	0.2 A	Moment o	of inertia (J)	: 2.02 sq.ft.lb	
LRC	: 7.	.7	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 53	3.2 ft.lb	Insulation	class	: F	
Locked rotor torq	jue : 29	50 %	Service fa	actor	: 1.00	
Breakdown torqu	ie : 30	360 % Temperature rise		: 80 K		
Rated speed		960 rpm	Design	Design		
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