DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836781

04036OT3E286JPV-W40 Catalog #:

Frame : 284/6JP Cooling method : IC01 - ODP

Insulation class Mounting : W-6

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) : -20°C to +40°C Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 360 lb Altitude

Protection degree		: IP23	Moment of ine	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 [RPN	/ []	3545	2950	2960	2960
Slip [%]	Slip [%]		1.67	1.33	1.33
Rated torque [ft.lb]	Rated torque [ft.lb]		53.4	53.2	53.2
Locked rotor torqu	Locked rotor torque [%]		210	229	250
Breakdown torque	[%]	260	280	300	330
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)	250s (cold) 139s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)
Noise level ²		73.0 dB(A)			
	25%	91.5	88.6	88.7	88.9
Efficiency (%)	50%	91.7	90.0	90.1	90.2
Efficiency (70)	75%	92.4	91.4	91.4	91.5
	100%	92.4	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

Drive end Non drive end Foundation loads Bearing type 6311 Z C3 6211 Z C3 Max. traction Max. compression

Without Sealing Without Bearing Seal Bearing Seal

Lubricant amount 11 g Mobil Polyrex EM Lubricant type

11517 h 14226 h Lubrication interval

Notes

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



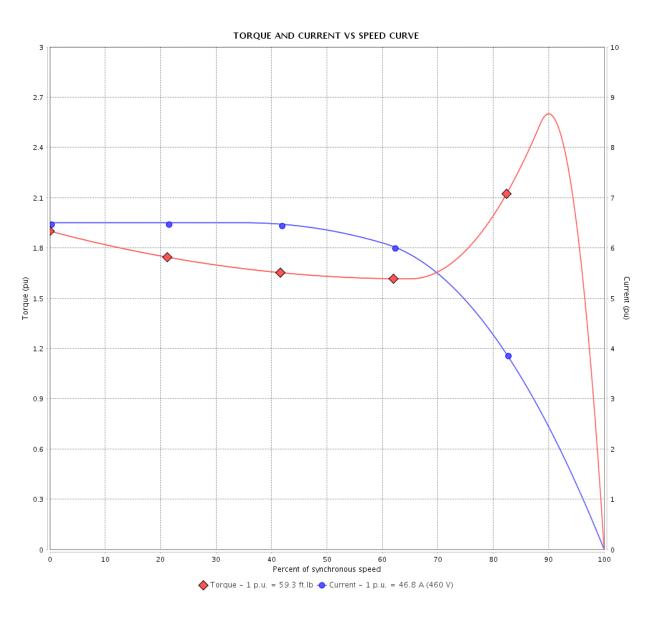
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836781

Catalog #: 04036OT3E286JPV-W40



Performance : 230/460 V 60 Hz 2P Rated current : 93.6/46.8 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.3 ft.lb : F Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3545 rpm Design : B

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 JP Pump NEMA Premium Product code: 14836781 Efficiency Three-Phase Catalog #: 04036OT3E286JPV-W40 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 40 50 -Percent of synchronous speed ♦ Torque – 1 p.u. = 53.4 ft.lb ♦ Current – 1 p.u. = 41.9 A (380 V) Performance : 380 V 50 Hz 2P IE3

Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7.3 : 53 jue : 21 ie : 28	.9 A 2 3.4 ft.lb 0 % 50 % 150 rpm	Moment of Duty cycl Insulation Service for Temperate Design	n class actor	: 2.02 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Locked rotor time		50s (cold) 139s (Changes Summ	hot)	Performed	Checked	Date
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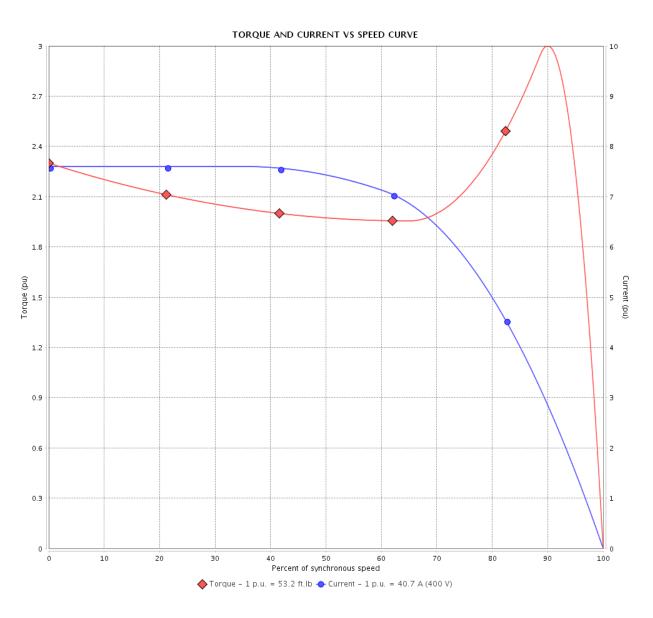
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836781

Catalog #: 04036OT3E286JPV-W40



Performance : 400 V 50 Hz 2P IE3 Rated current : 40.7 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : 53.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B

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

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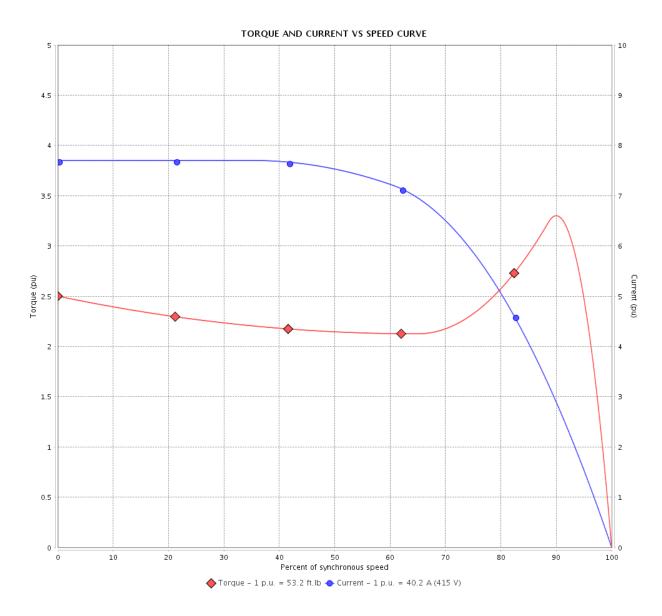


Customer :

Product line : W40 JP Pump NEMA Premium Product code : 14836781

Efficiency Three-Phase

Catalog #: 04036OT3E286JPV-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)	
Rated torque	: 53.2 ft.lb	Insulation class	:F	
Locked rotor torque	: 250 %	Service factor	: 1.00	
Breakdown torque	: 330 %	Temperature rise	: 80 K	
Rated speed	: 2960 rpm	Design	: B	

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

Locked rotor tim	e : 14	4S (COIO) 8S (NOI)			
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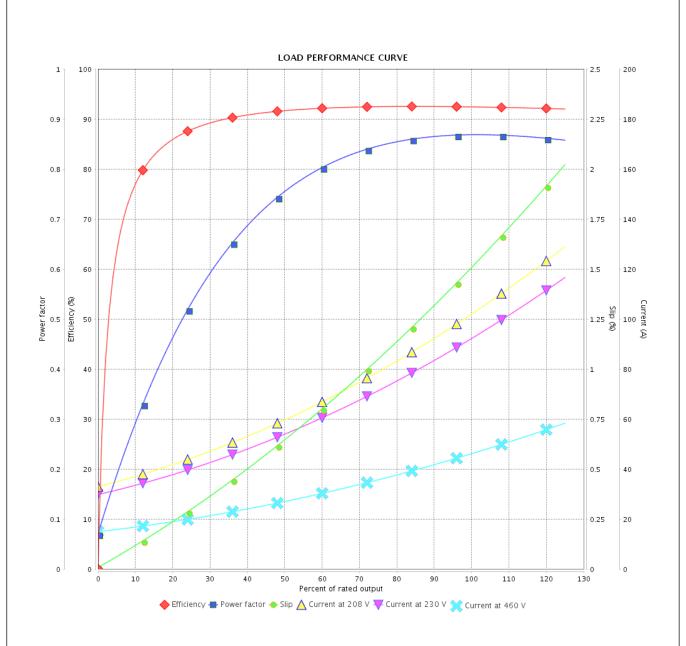
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836781

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Performance : 230/460 V 60 Hz 2P Rated current : 93.6/46.8 A Moment of inertia (J) : 2.02 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 Insulation class Rated torque : 59.3 ft.lb : F Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3545 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

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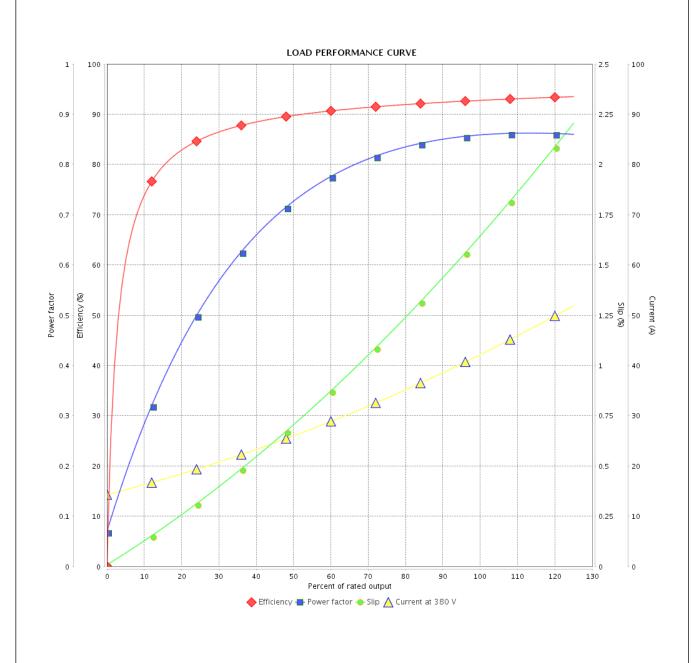
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836781

Catalog #: 04036OT3E286JPV-W40



Performance	formance : 380 V 50 Hz 2P IE3					
Rated current : 41.9 A		1.9 A	Moment o	f inertia (J)	: 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	: 28	80 %	Temperati	ıre rise	: 80 K	
Rated speed	: 29	950 rpm	Design		: B	
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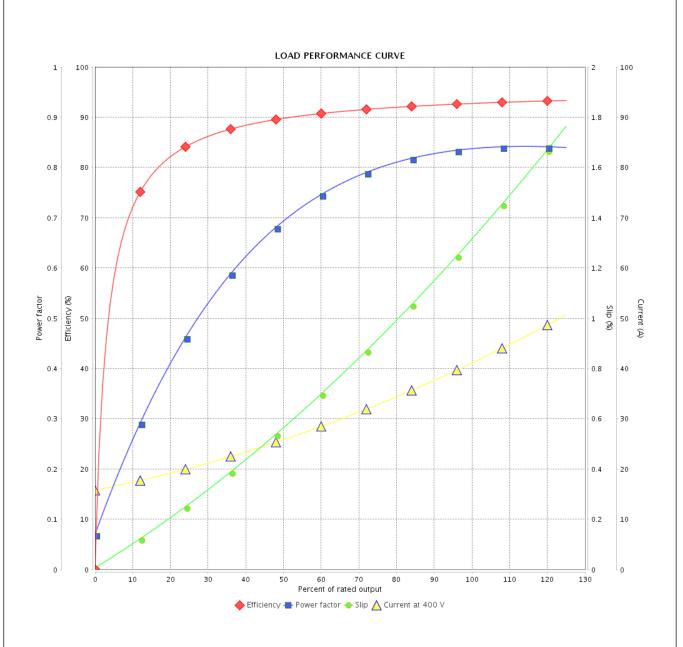
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Efficiency Three-Phase

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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 : 53.2 ft.lb : 229 % : 300 % : 2960 rpm	Moment of ine Duty cycle Insulation class Service factor Temperature ri Design	s	: 2.02 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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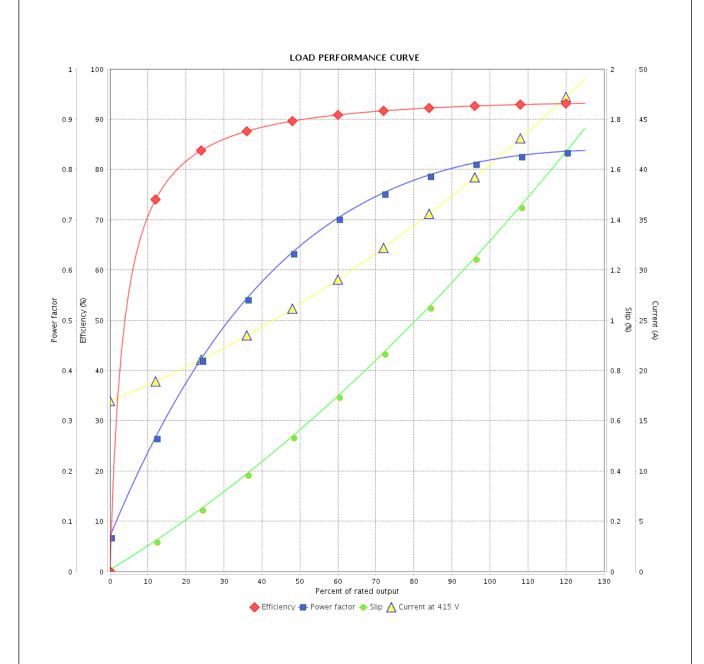
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836781

Catalog #: 04036OT3E286JPV-W40



Performance	: 4	115 V 50 Hz 2P IE3				
Rated current	: 4	10.2 A	Moment o	f inertia (J)	: 2.02 sq.ft.lb	
LRC	: 7	' .7	Duty cycle		: Cont.(S1)	
Rated torque	: 5	53.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	250 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	330 %	Temperatu	ıre rise	: 80 K	
Rated speed	: 2	2960 rpm	Design		: B	
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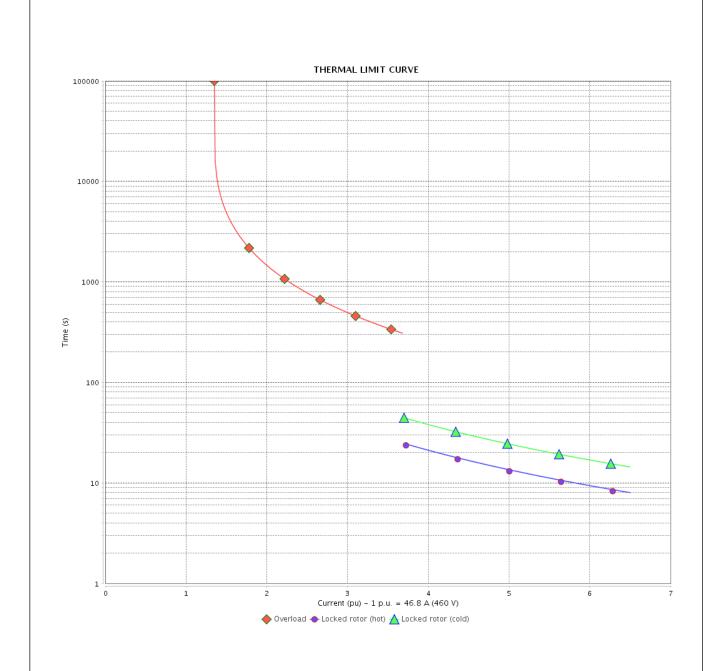


Customer		:				
Product line		: W40 JP Pump NEMA Prem	ium	Product code :	14836781	
Product line		Efficiency Three-Phase	iiuiii	Froduct code .	14630761	
		,		Catalog # :	04036OT3E2	86JPV-W40
Performance	:	230/460 V 60 Hz 2P				
Rated current		93.6/46.8 A	Moment o	f inertia (J)	: 2.02 sq.ft.lb	
LRC Rated torque		6.5 59.3 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torg	jue :	190 %	Service fa	ctor	: 1.25	
Breakdown torqu		260 %	Temperati	ure rise	: 80 K : B	
Rated speed		3545 rpm	Design		. D	
Heating constant						
Cooling constant		06		Devi 1	Ob. 1	
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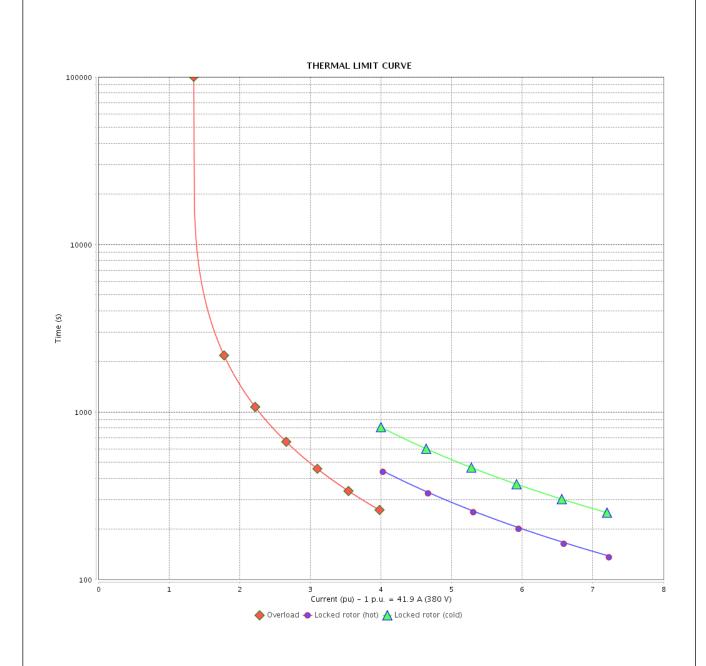


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14836781 04036OT3E2	36JPV-W40
Performance		380 V 50 Hz 2P IE3				
Rated current LRC Rated torque	:	41.9 A 7.2 53.4 ft.lb	Duty cycle Insulation	class	: 2.02 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	ue :	210 % 280 % 2950 rpm	Service fa Temperati Design		: 1.00 : 80 K : B	
Heating constan	t		-			
Cooling constant		Changes Summary		Performed	Checked	Date
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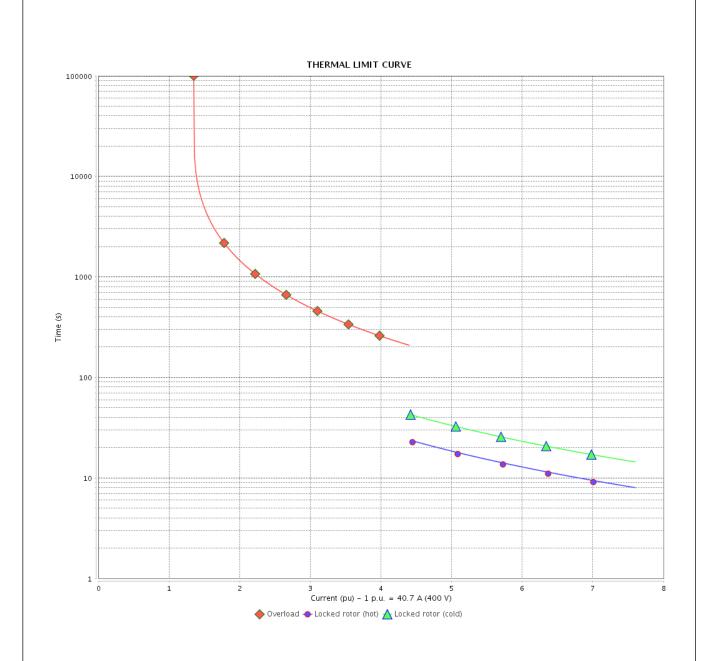


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14836781 04036OT3E28	36JPV-W40
Performance	:	400 V 50 Hz 2P IE3				
Rated current LRC Rated torque	:	40.7 A 7.6 53.2 ft.lb	Moment on Duty cycle Insulation		: 2.02 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord	que :	229 %	Service fa	ctor	: 1.00	
Breakdown torqu Rated speed		300 % 2960 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant						
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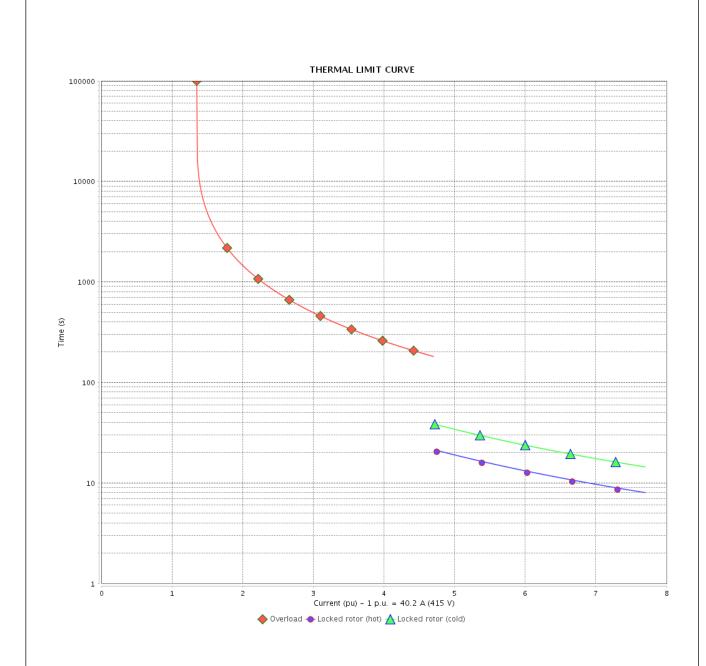


Customer	:					
Product line	: \ E	W40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14836781 04036OT3E28	36JPV-W40
Performance	: 41	15 V 50 Hz 2P IE3				
Rated current LRC	: 7.		Duty cycle	f inertia (J)	: 2.02 sq.ft.lb : Cont.(S1)	
Rated torque		3.2 ft.lb	Insulation		: F : 1.00	
Locked rotor torque Breakdown torque		50 % 30 %	Service fac Temperatu		: 1.00 : 80 K	
Rated speed		960 rpm	Design	ii C 113C	: B	
Heating constant Cooling constant						
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

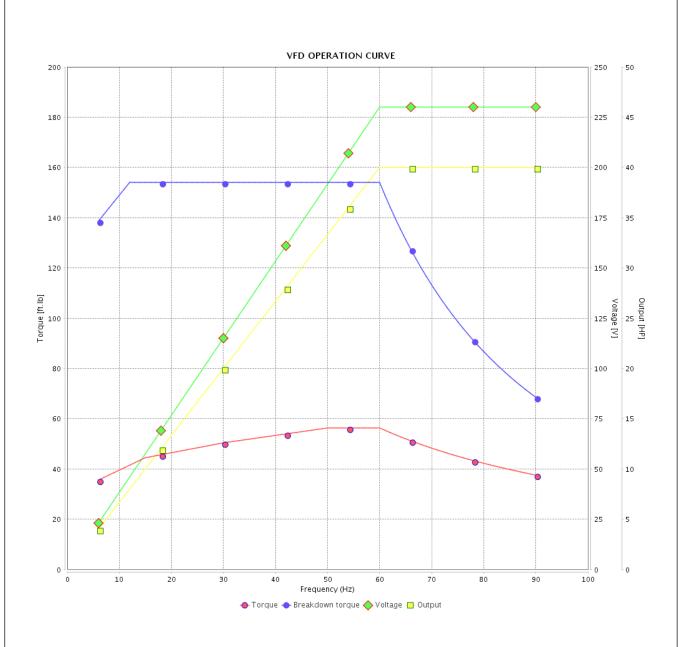
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Performance	:	: 230/460 V 60 Hz 2	P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	ue le	: 93.6/46.8 A : 6.5 : 59.3 ft.lb : 190 % : 260 % : 3545 rpm	Duty of Insula Service	tion clas e factor erature r	SS	: 2.02 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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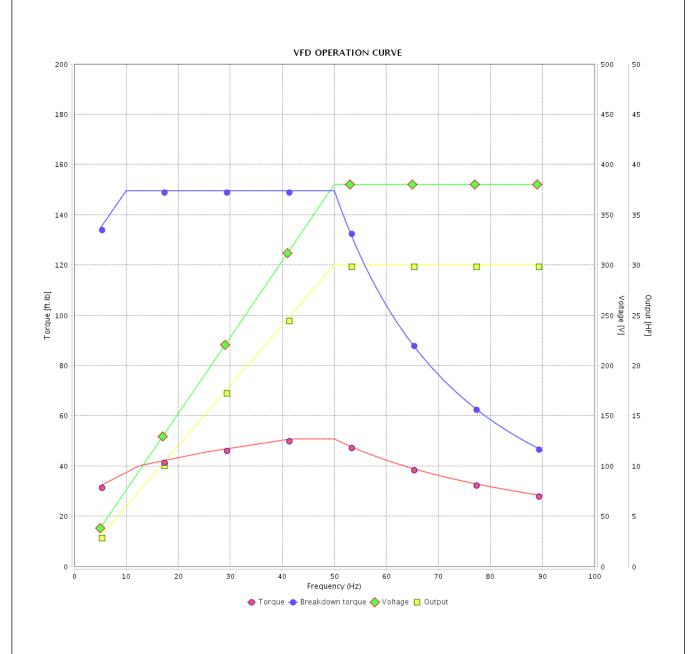
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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.9 A : 7.2 : 53.4 ft.lb : 210 % : 280 % : 2950 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature 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



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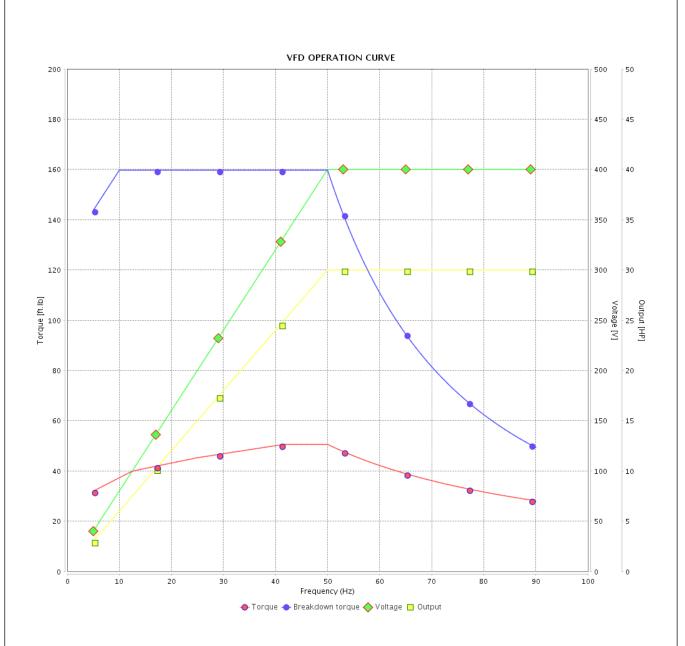
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Efficiency Three-Phase

Product code: 14836781

Catalog # : 04036OT3E286JPV-W40

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Performance		: 400 V 50 Hz 2P IE3	3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 40.7 A : 7.6 : 53.2 ft.lb : 229 % : 300 % : 2960 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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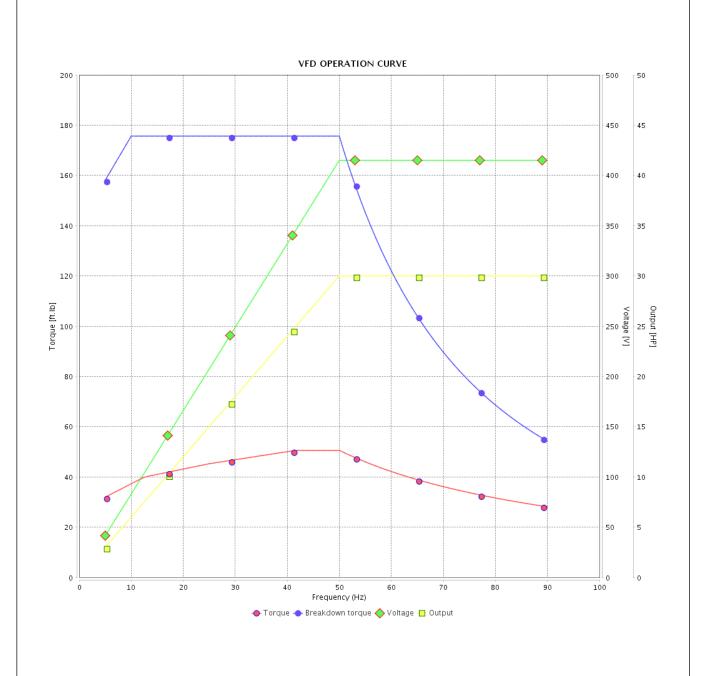
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836781

Catalog #: 04036OT3E286JPV-W40



Performance	: 4	415 V 50 Hz 2P IE3				
Rated current	ated current : 40.2 A		Moment of	Moment of inertia (J)		
LRC	: 7	7.7	Duty cycle	;	: Cont.(S1)	
Rated torque	:	53.2 ft.lb	Insulation class		: F	
Locked rotor torq	ue : 2	250 %	Service factor		: 1.00	
Breakdown torqu	e ::	330 %	Temperature rise		: 80 K	
Rated speed	: 2	2960 rpm	Design		: B	
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