### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837863

Catalog # : 01512OT3E284JPV-W40

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

Insulation class : F Mounting : W-6

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 : 338 lb
Protection degree : IP23 Moment of inertia (J) : 4.80 sq.ft.lb

7 tititado		. Too main Approx. Walg					
Protection degree		: IP23	Moment of ine	Moment of inertia (J) : 4.80 sq.ft.lb			
Design		: B					
Output [HP]		15	10	10	10		
Poles		6	6	6	6		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		230/460	380	400	415		
Rated current [A]		36.8/18.4	15.8	15.4	15.4		
L. R. Amperes [A]		232/116	115	116	122		
LRC [A]		6.3x(Code G)	7.3x(Code J)	7.5x(Code K)	7.9x(Code K)		
No load current [A	]	15.6/7.80	7.80	8.40	8.90		
Rated speed [RPI	<i>/</i> I]	1180	980	985	985		
Slip [%]		1.67	2.00	1.50	1.50		
Rated torque [ft.lb]		66.8	66.8 53.6 53.3		53.3		
Locked rotor torqu	e [%]	260	290	330	360		
Breakdown torque	[%]	260	320	350	380		
Service factor		1.25	1.00 1.00		1.00		
Temperature rise		80 K	80 K	80 K 80 K			
Locked rotor time		28s (cold) 16s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	28s (cold) 16s (hot)		
Noise level <sup>2</sup>		59.0 dB(A)					
	25%	90.8	88.3	88.4	88.4		
Efficiency (%)	50%	91.0	88.6	88.6	88.6		
Efficiency (70)	75%	91.7	89.0	89.0	89.0		
	100%	91.7	89.1	89.1	89.1		
	25%	0.42	0.37	0.33	0.31		
Power Factor	50%	0.67	0.62	0.58	0.55		
i owei i actoi	75%	0.77	0.75	0.71	0.68		
	100%	0.82	0.81	0.79	0.76		

Bearing type : Drive end 6311 Z C3 6211 Z C3

: Without Without

Bearing Seal Bearing Seal 20000 h 20000 h

Lubrication interval : 20000 h 20000 h Lubricant amount : 18 g 11 g Lubricant type : Mobil Polyrex EM Foundation loads Max. traction Max. compression

Notes

Sealing

USABLE @208V 40.7A SF 1.15 SFA 46.8A

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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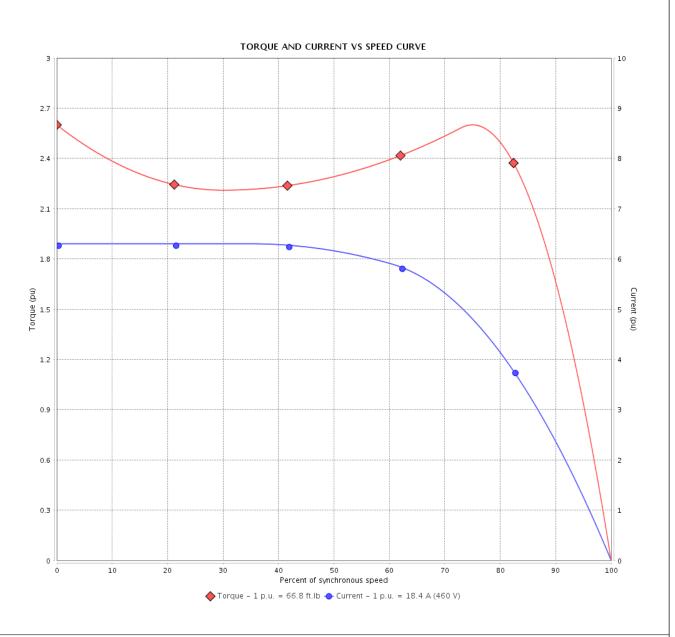
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837863

Catalog #: 01512OT3E284JPV-W40



Performance : 230/460 V 60 Hz 6P Rated current : 36.8/18.4 A Moment of inertia (J) : 4.80 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 66.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 JP Pump NEMA Premium Product code: 14837863 Efficiency Three-Phase Catalog #: 01512OT3E284JPV-W40 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 53.6 ft.lb ◆ Current - 1 p.u. = 15.8 A (380 V) Performance : 380 V 50 Hz 6P IE3 Rated current : 15.8 A Moment of inertia (J) : 4.80 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 53.6 ft.lb : F : 290 % Locked rotor torque Service factor : 1.00 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 980 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Date Rev. Performed Checked **Changes Summary** 

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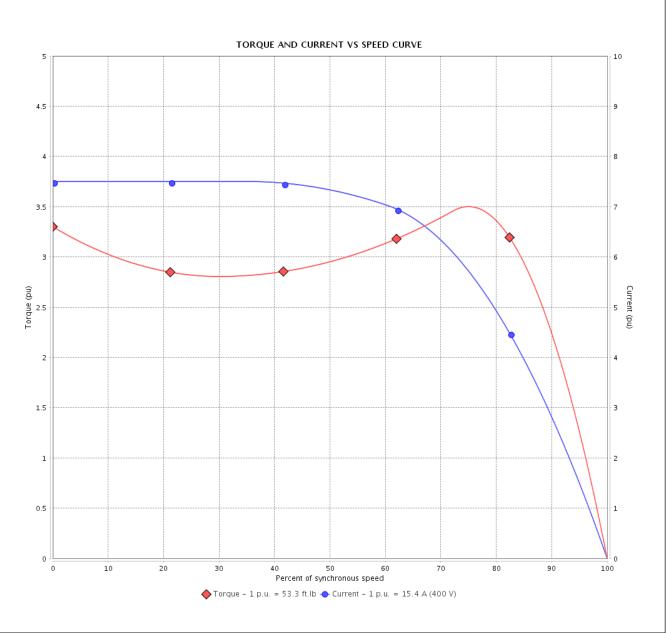


Customer :

Product line : W40 JP Pump NEMA Premium Product code : 14837863

Efficiency Three-Phase

Catalog #: 01512OT3E284JPV-W40



Performance	: 400 V 50 Hz 6P IE3			
Rated current	: 15.4 A	Moment of inertia (J)	: 4.80 sq.ft.lb	
LRC	: 7.5	Duty cycle	: Cont.(S1)	
Rated torque	: 53.3 ft.lb	Insulation class	: F	
Locked rotor torque	: 330 %	Service factor	: 1.00	
Breakdown torque	: 350 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	
Locked roter time	: 32s (sold) 18s (hot)			

Locked rotor time : 32s (cold) 18s (hot)

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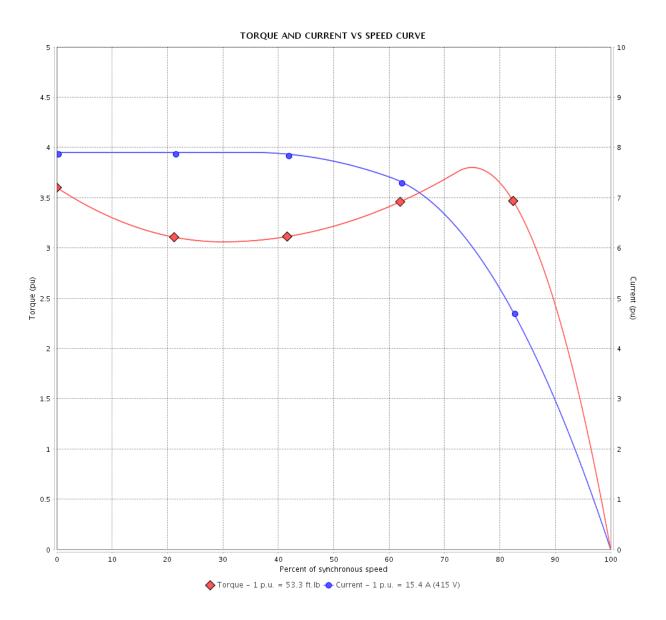
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837863

Catalog #: 01512OT3E284JPV-W40



Performance	: 415 V 50 Hz 6P IE3		
Rated current	: 15.4 A	Moment of inertia (J)	: 4.80 sq.ft.lb
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 53.3 ft.lb	Insulation class	: F
Locked rotor torque	: 360 %	Service factor	: 1.00
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B
Locked rotor time	: 28s (cold) 16s (hot)		

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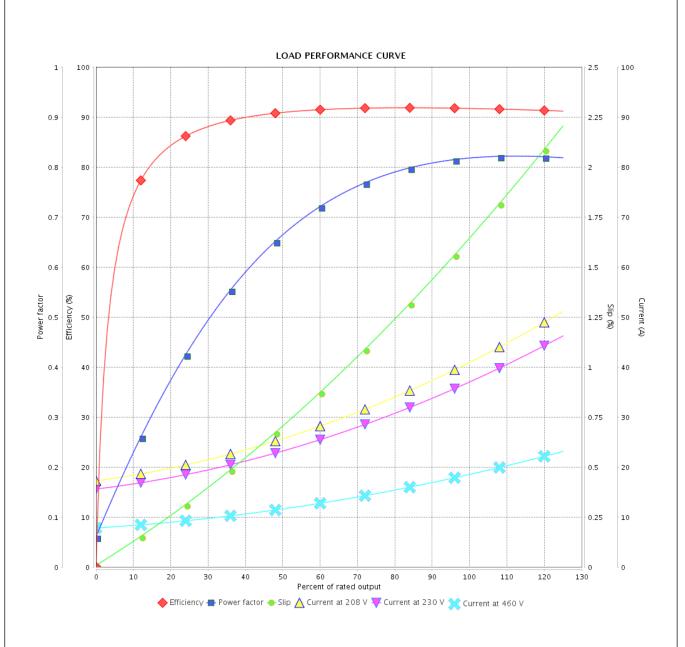
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837863

Catalog #: 01512OT3E284JPV-W40

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Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36.8/18.4 A : 6.3 : 66.8 ft.lb : 260 % : 260 % : 1180 rpm	Moment of inertia (J) : 4.80 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.25  Temperature rise : 80 K  Design : B			
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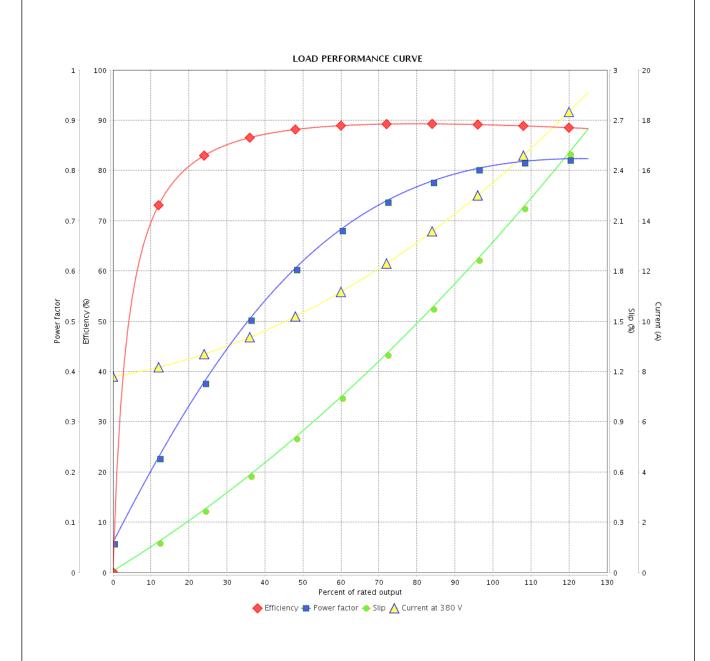
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837863

Catalog #: 01512OT3E284JPV-W40



Performance	:	380 V 50 Hz 6P IE3				
Rated current	:	15.8 A	Moment o	f inertia (J)	: 4.80 sq.ft.lb	
LRC	:	7.3	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	53.6 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	290 %	Service fa	ctor	: 1.00	
Breakdown torque	:	320 %	Temperature rise		: 80 K	
Rated speed	:	980 rpm	Design		: B	
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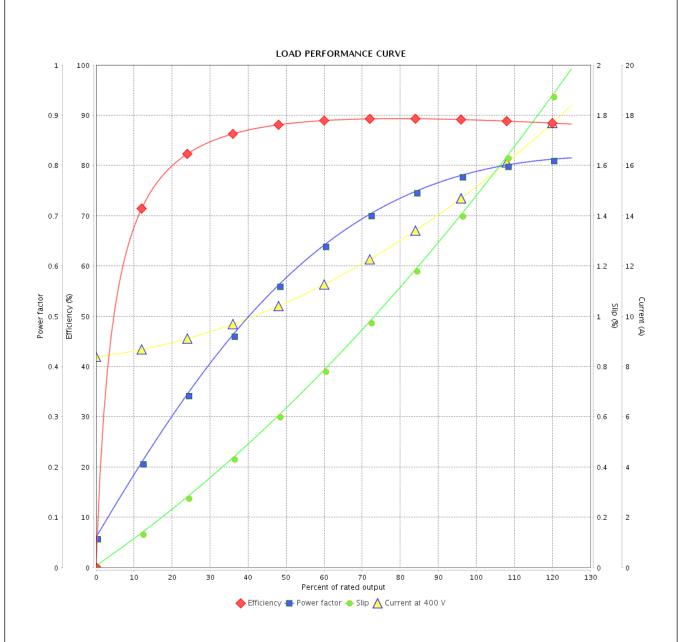
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837863

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Performance	: 400 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.4 A : 7.5 : 53.3 ft.lb : 330 % : 350 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 4.80 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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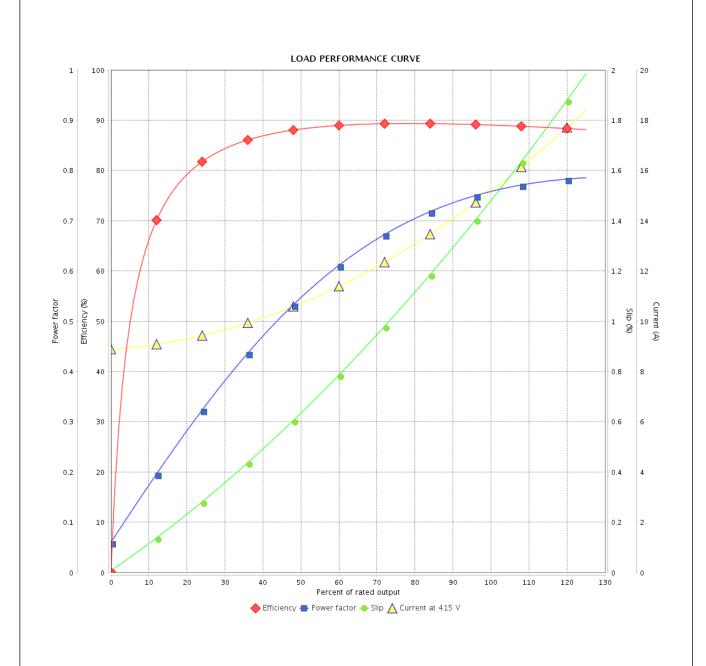
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837863

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Performance	: 415 V 50 Hz 6P IE3				
Rated current	: 15.4 A	Moment o	f inertia (J)	: 4.80 sq.ft.lb	
LRC	: 7.9	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 53.3 ft.lb	Insulation	class	:F	
Locked rotor torque	: 360 %	Service factor		: 1.00	
Breakdown torque	: 380 %	Temperature rise		: 80 K	
Rated speed	: 985 rpm	Design		: B	
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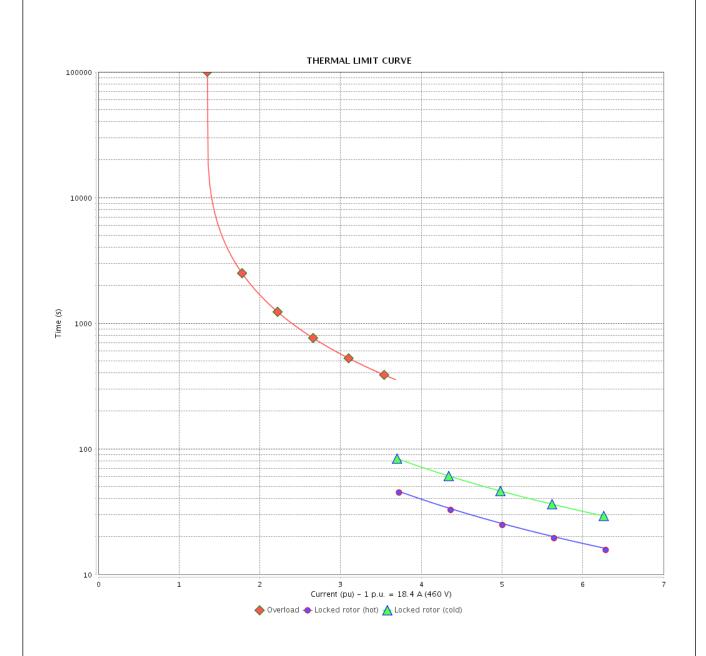


Customer	:					
Product line	: E	W40 JP Pump NEMA Prem fficiency Three-Phase		Product code : Catalog # :	14837863 01512OT3E28	34JPV-W40
Performance	. 2	30/460 V 60 Hz 6P				
Rated current		6.8/18.4 A	Moment of	f inertia (J)	: 4.80 sq.ft.lb	
LRC	: 6	.3	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor tord		6.8 ft.lb 60 %	Insulation Service fac		: F : 1.25	
Breakdown torqu Rated speed	ie : 2	60 % 180 rpm	Temperatu Design		: 80 K : B	
Heating constan	t	•				
Cooling constant	t					
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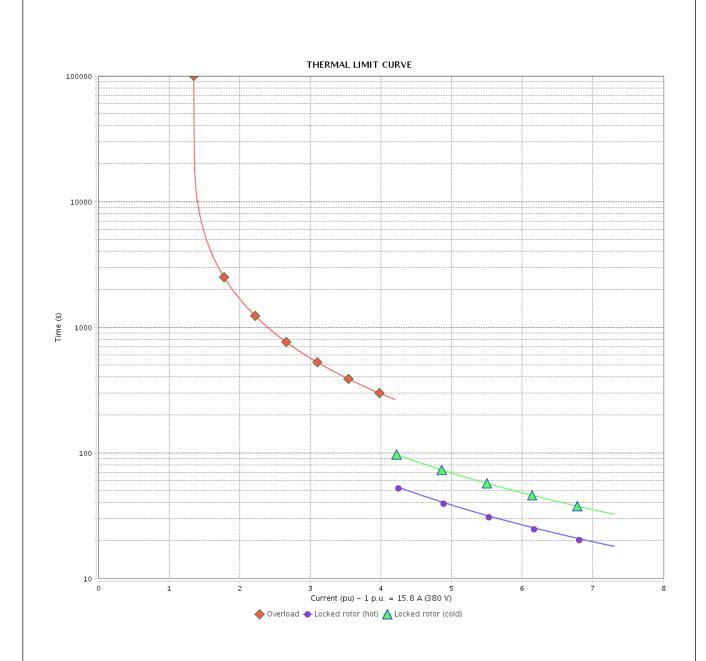


Customer	:					
Product line	: \ E <sup>1</sup>	W40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14837863	
				Catalog # :	01512OT3E2	84JPV-W40
Performance	: 38	80 V 50 Hz 6P IE3				
Rated current	: 15	5.8 A	Moment of	f inertia (J)	: 4.80 sq.ft.lb	
LRC	: 7.	3	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torc		3.6 ft.lb 90 %	Insulation Service fac		: F : 1.00	
Breakdown torqu	ie : 32	20 %	Temperatu		: 80 K	
Rated speed	: 98	30 rpm	Design		: B	
Heating constant						
Cooling constant	<u> </u>	01	Г	Dest.	Ob. 1	D :
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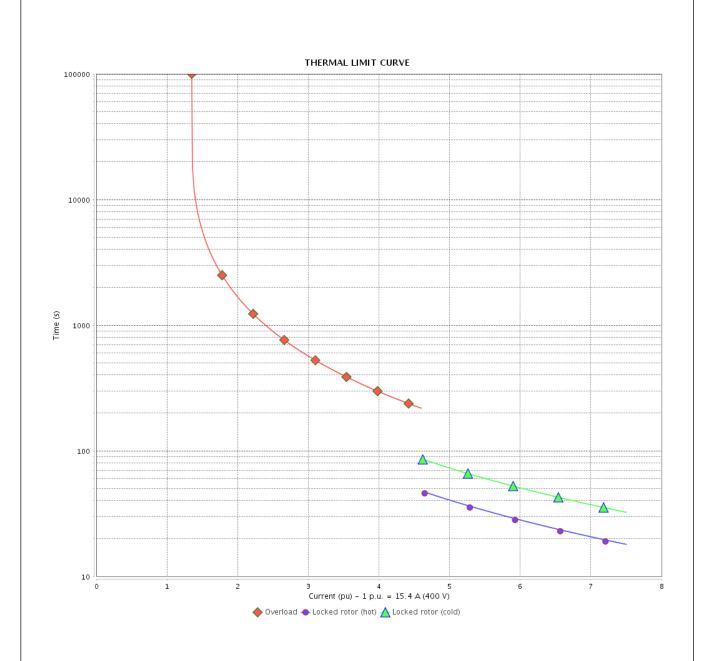


Customer	:					
Product line	: \ E:	W40 JP Pump NEMA Prem fficiency Three-Phase		⊃roduct code :	14837863	
			(	Catalog # :	01512OT3E2	84JPV-W40
Performance	: 40	00 V 50 Hz 6P IE3				
Rated current	: 15	5.4 A	Moment or	f inertia (J)	: 4.80 sq.ft.lb	
LRC Rated torque	: 7.	5 3.3 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torc	jue : 33	30 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 35	50 %	Temperatu	ıre rise	: 80 K	
Rated speed		35 rpm	Design		: B	
Heating constant						
Cooling constant Rev.	•	Changes Summary		Performed	Checked	Date
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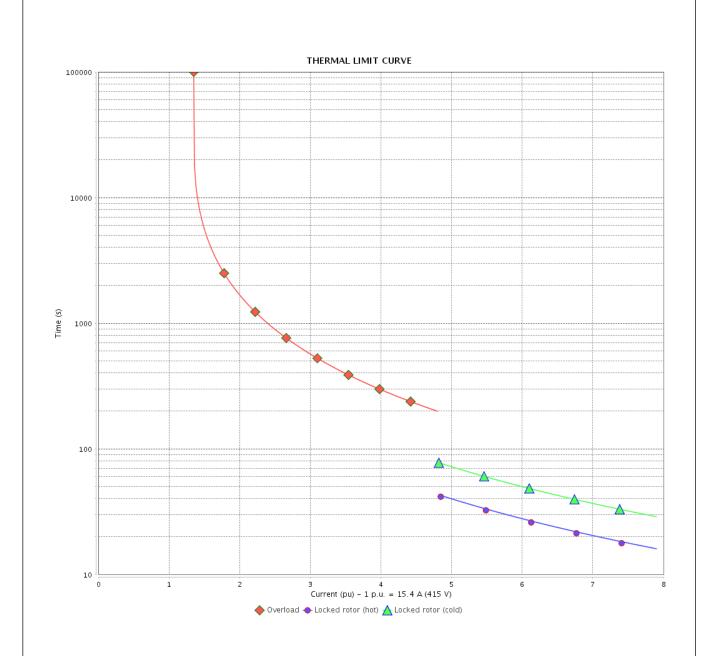


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase	ium	Product code :	14837863	
		Emoleticy Three-Fridae		Catalog # :	01512OT3E28	34JPV-W40
Performance	:	415 V 50 Hz 6P IE3				
Rated current		15.4 A		f inertia (J)	: 4.80 sq.ft.lb	
LRC Rated torque		7.9 53.3 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torg	que :	360 %	Service fa	ctor	: 1.00	
Breakdown torqu		380 %	Temperatu	ıre rise	: 80 K : B	
Rated speed		985 rpm	Design		. Б	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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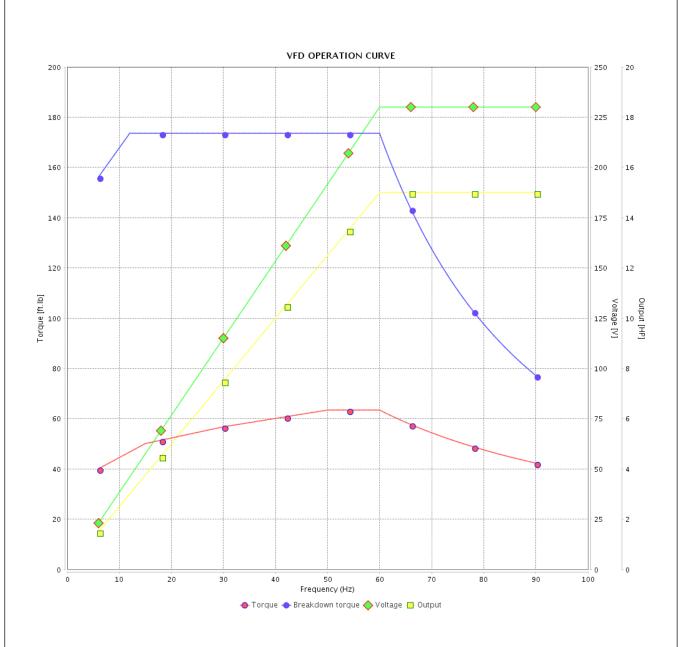
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837863

Catalog #: 01512OT3E284JPV-W40

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Performance	: 23	30/460 V 60 Hz 6P				
Rated current : 36.8/18.4 A		e class actor	: 4.80 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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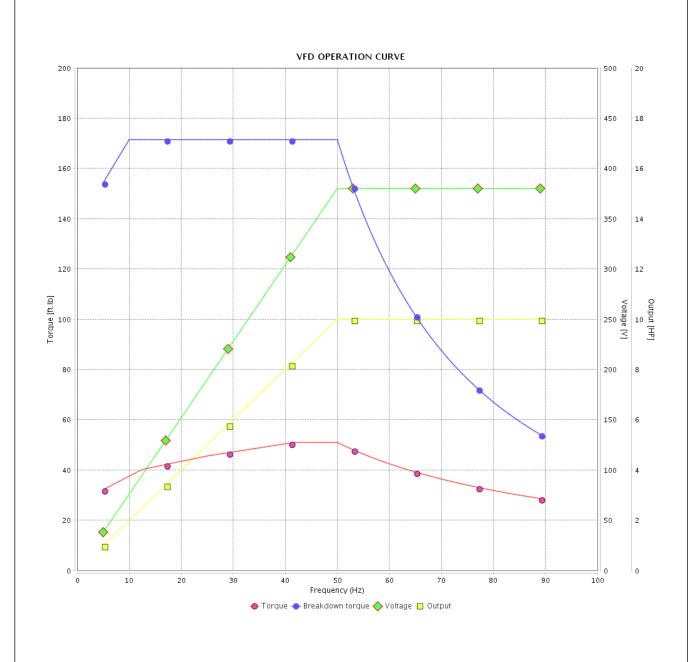
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837863

Catalog #: 01512OT3E284JPV-W40

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Performance	: 380 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.8 A : 7.3 : 53.6 ft.lb : 290 % : 320 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	Duty cycle : Cont.(\$1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K	
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Customer :

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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

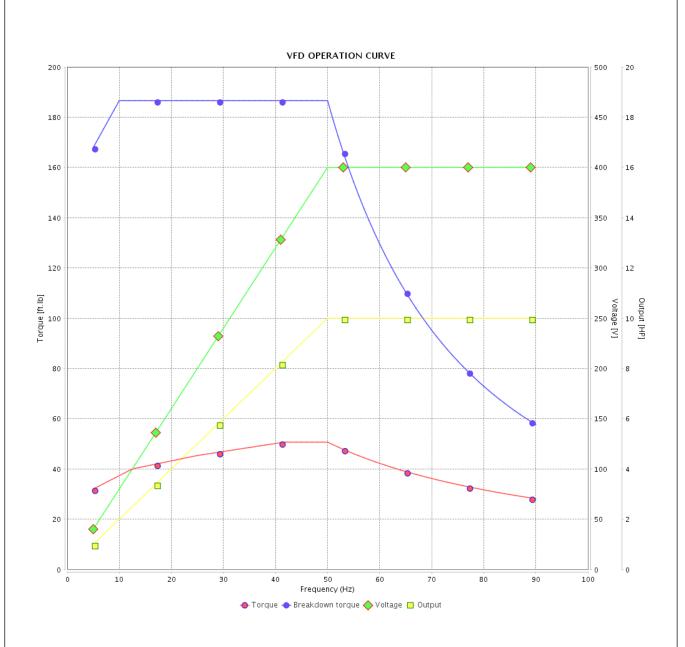
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Catalog #: 01512OT3E284JPV-W40

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: 4	00 V 50 Hz 6P IE3				
: 7 : 5 que : 3 ue : 3	7.5 53.3 ft.lb 530 % 550 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.80 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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	: 1 : 7 : 5 que : 3	ue : 350 % : 985 rpm	: 15.4 A	: 15.4 A  : 7.5  : 53.3 ft.lb  que : 330 %  ue : 350 %  : 985 rpm   Moment of inertia (J)  Duty cycle  Insulation class  Service factor  Temperature rise  Design	: 15.4 A       Moment of inertia (J)       : 4.80 sq.ft.lb         : 7.5       Duty cycle       : Cont.(S1)         : 53.3 ft.lb       Insulation class       : F         que       : 330 %       Service factor       : 1.00         ue       : 350 %       Temperature rise       : 80 K         : 985 rpm       Design       : B

#### Three Phase Induction Motor - Squirrel Cage



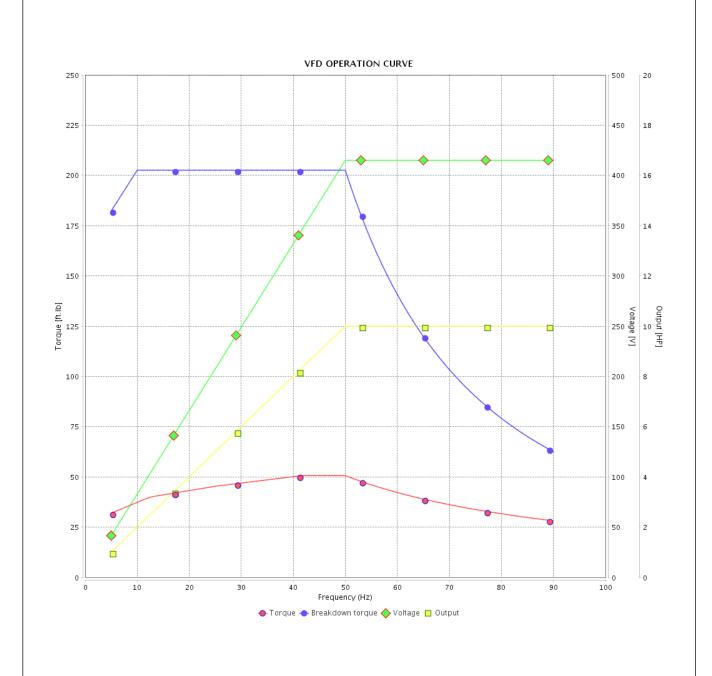
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837863

Catalog #: 01512OT3E284JPV-W40



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	: 1	5.4 A	Moment o	Moment of inertia (J)		
LRC	: 7.	.9	Duty cycle	e ` ´	: 4.80 sq.ft.lb : Cont.(S1)	
Rated torque	: 53	3.3 ft.lb	Insulation		: F ` ´	
Locked rotor tord	que : 30	60 %	Service fa	ictor	: 1.00	
Breakdown torqu	ue : 38	80 %	Temperati	ure rise	: 80 K	
Rated speed	: 98	85 rpm	Design	Design		
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