DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14485010

Catalog #: 01512OT3E284JP-W40

Frame : 284JP Cooling method : IC01 - ODP

Insulation class Mounting : F-1

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 334 lb

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 [RPM	Rated speed [RPM]		980	985	985	
Slip [%]		1.67	2.00	1.50	1.50	
Rated torque [ft.lb]		66.8	53.6 53.3		53.3	
Locked rotor torque [%]		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 ²		59.0 dB(A)				
	25%	90.8	88.3	88.4	88.4	
Efficiency (9/)	50%	91.0	88.6	88.6	88.6	
Efficiency (%) 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	
1 OWEL FACIOI	75%	0.77	0.75	0.71	0.68	
	100%	0.82	0.81	0.79	0.76	

Drive end Non drive end Foundation loads 6311 Z C3 Bearing type 6211 Z C3 Max. traction Sealing Without Without

Bearing Seal Bearing Seal

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

Max. compression

Notes

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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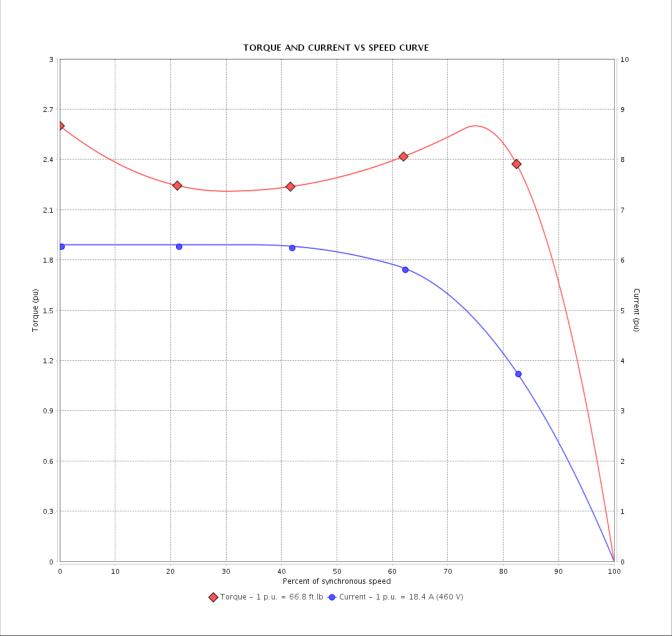
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14485010

Catalog #: 01512OT3E284JP-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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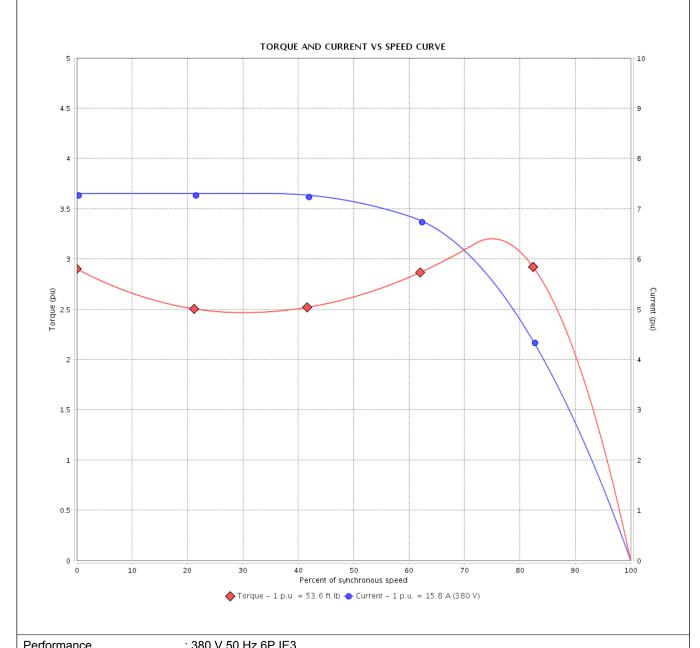
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Efficiency Three-Phase

Product code: 14485010

Catalog #: 01512OT3E284JP-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	: 4.80 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Locked rotor time	: 32s (cold) 18s (hot)			
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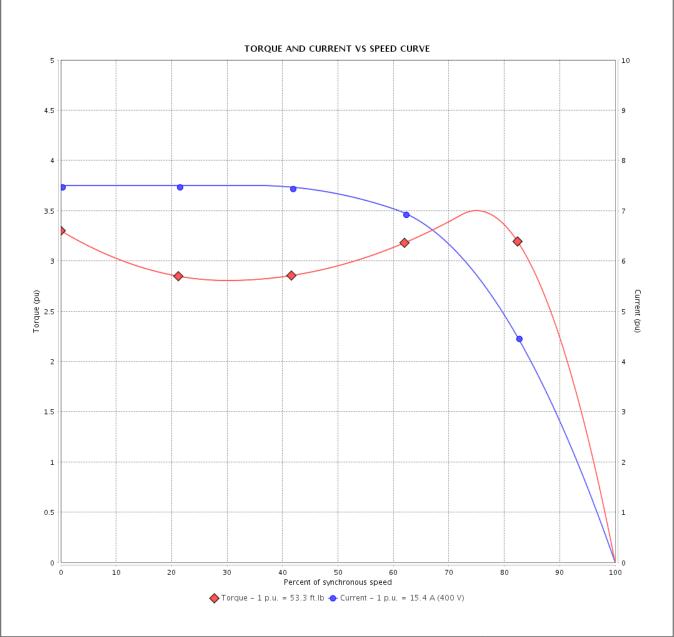
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14485010

Catalog #: 01512OT3E284JP-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) Insulation class Rated torque : 53.3 ft.lb : F Service factor Locked rotor torque : 330 % : 1.00 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 985 rpm Design : B

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

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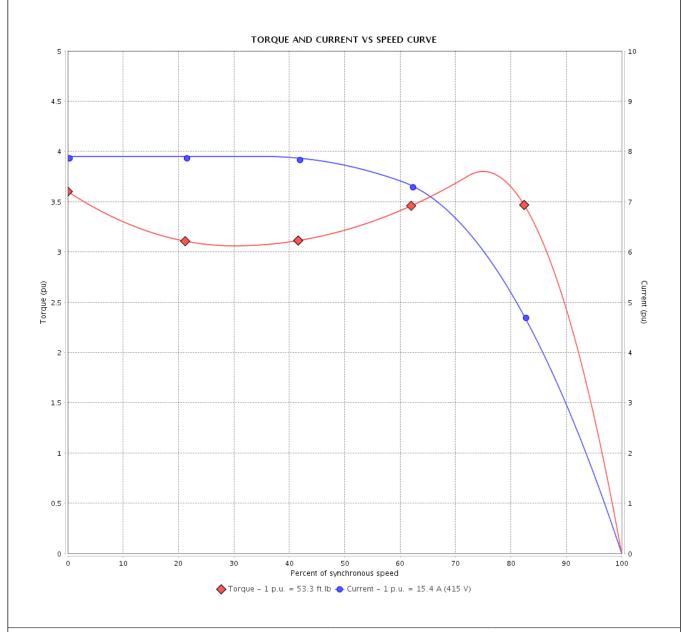
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14485010

Catalog #: 01512OT3E284JP-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) Insulation class Rated torque : 53.3 ft.lb : F : 360 % Locked rotor torque Service factor : 1.00 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Locked rotor time : 28s (cold) 16s (hot) Date Rev. Performed Checked **Changes Summary** Performed by

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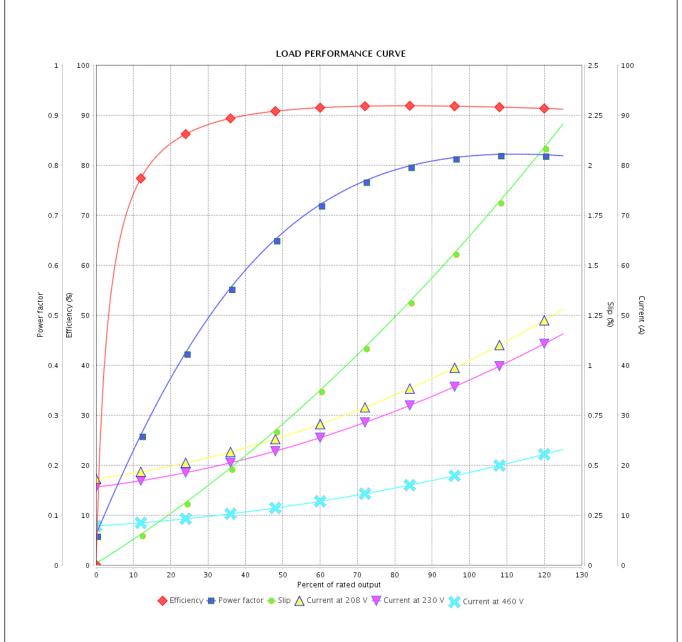
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14485010

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

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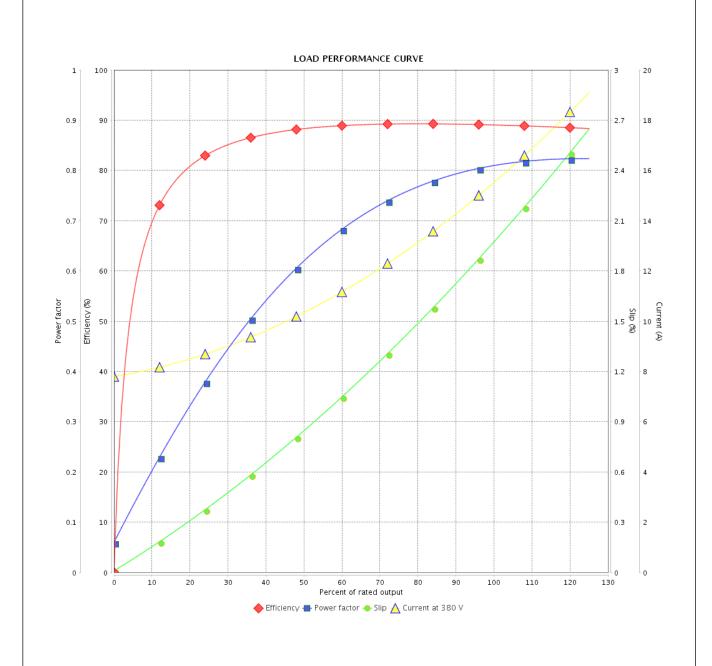
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14485010

Catalog #: 01512OT3E284JP-W40



Performance	Performance : 380 V 50 Hz 6P IE3					
Rated current : 15.8 A		5.8 A	Moment of inertia (J)		: 4.80 sq.ft.lb	
LRC	: 7	.3	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	3.6 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	90 %	Service fa	ctor	: 1.00	
Breakdown torque		20 %	Temperati	Temperature rise		
Rated speed	: 9	80 rpm	Design		: B	
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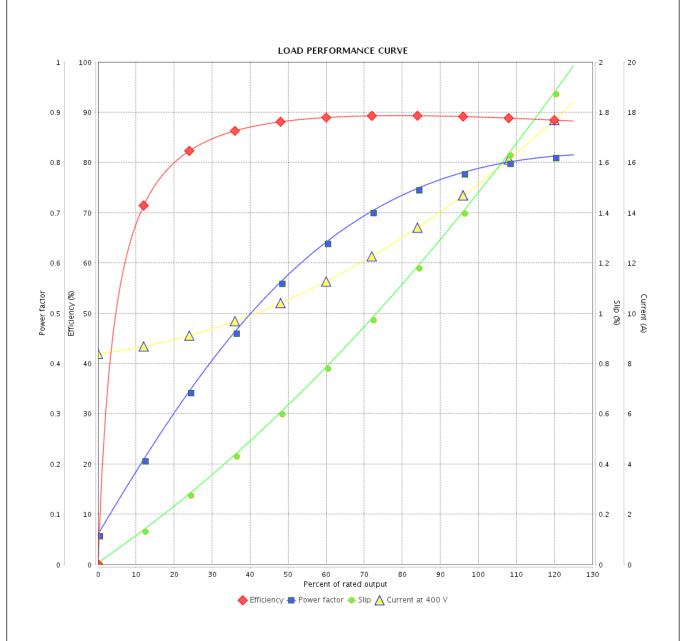
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Efficiency Three-Phase

Product code: 14485010

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Performance	: 40	0 V 50 Hz 6P IE3	}			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.5 : 53 ue : 33 e : 35	.4 A 5 .3 ft.lb 0 % 0 % 5 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 4.80 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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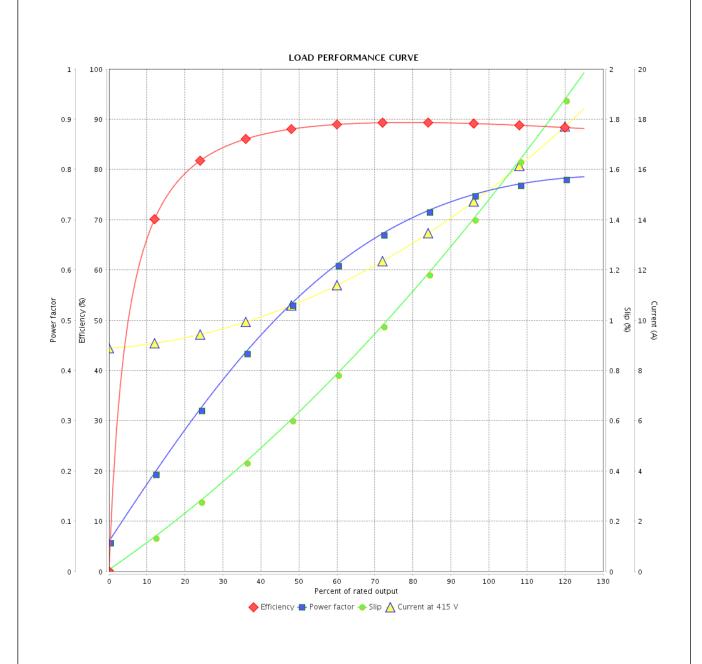
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14485010

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Performance	: 415 V 50 Hz 6P IE3				
Rated current	: 15.4 A	Moment of iner	tia (J)	: 4.80 sq.ft.lb	
LRC	: 7.9	Duty cycle		: Cont.(S1)	
Rated torque	: 53.3 ft.lb	Insulation class	3	: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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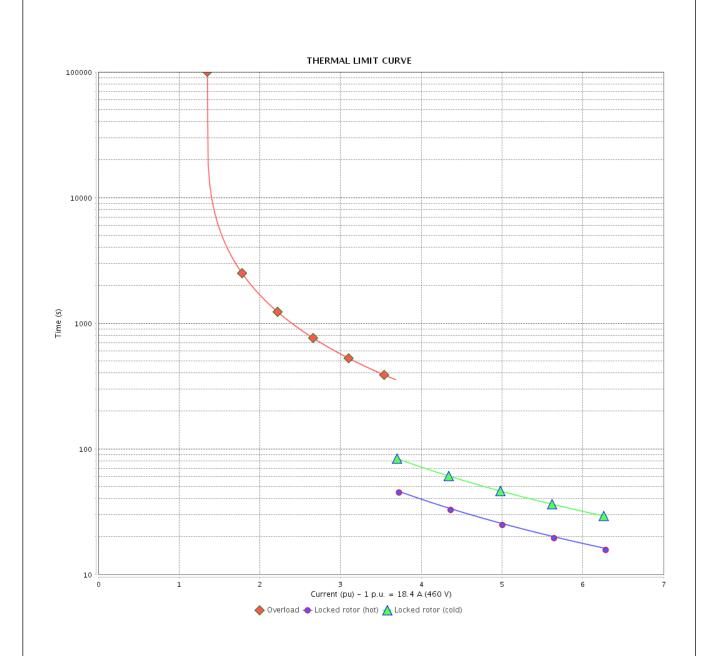


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Product line	: \	N40 JP Pump NEMA Prem	ium I	Product code :	14485010	
	E	Efficiency Three-Phase Cat		Catalog # :	01512OT3E28	34JP-W40
Performance	• 21	30/460 V 60 Hz 6P				
Rated current		6.8/18.4 A	Moment or	f inertia (J)	: 4.80 sq.ft.lb	
LRC	: 6.	3	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torq		6.8 ft.lb 60 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	e : 26	60 %	Temperatu		: 80 K	
Rated speed		180 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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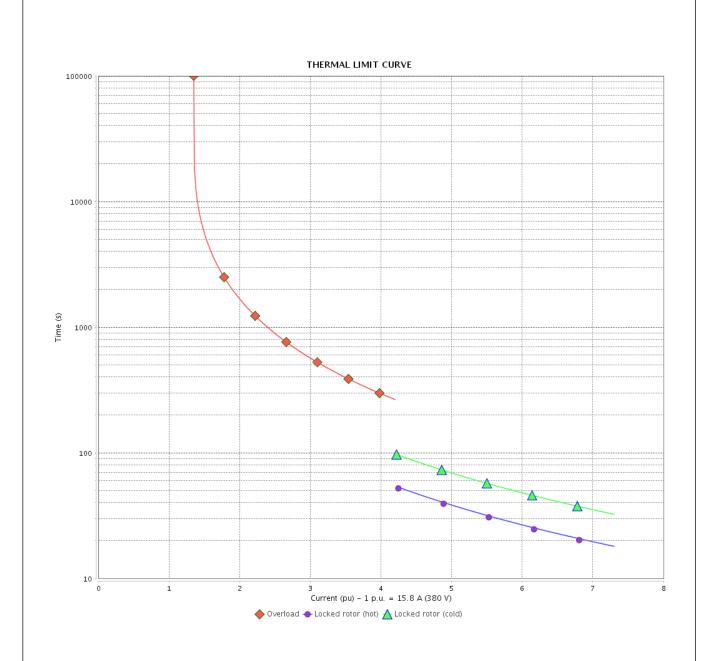


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Product line	:\	W40 JP Pump NEMA Prem	ium l	Product code :	14485010	
		fficiency Three-Phase	(Catalog # :	01512OT3E2	84JP-W40
Performance		80 V 50 Hz 6P IE3				
Rated current LRC	: 15 : 7.	5.8 A .3	Moment of Duty cycle	f inertia (J)	: 4.80 sq.ft.lb : Cont.(S1)	
Rated torque	: 53	3.6 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		90 % 20 %	Service fac Temperatu		: 1.00 : 80 K	
Rated speed		80 rpm	Design	5 1.00	: B	
Heating constant	<u> </u>					
Cooling constant			-		1	
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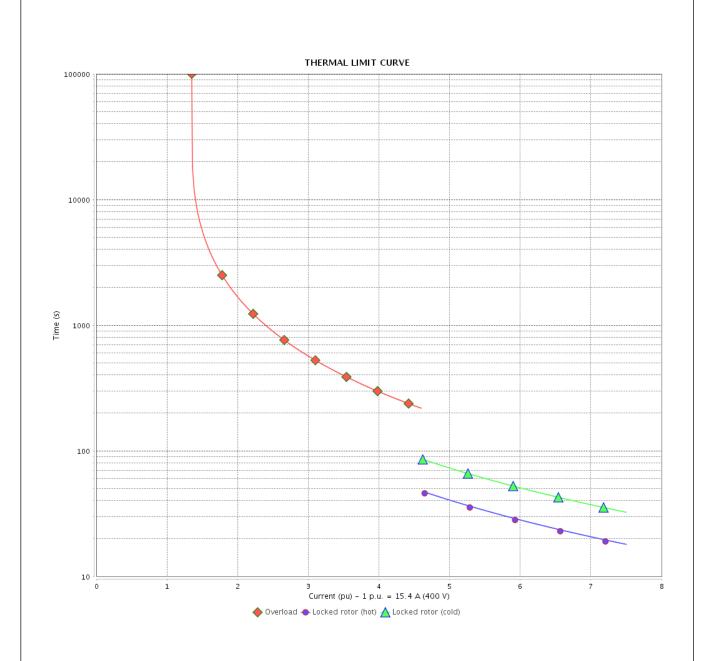


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14485010 01512OT3E28	84JP-W40
Performance	:	400 V 50 Hz 6P IE3				
Rated current LRC	:	15.4 A 7.5	Duty cycle		: 4.80 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		53.3 ft.lb 330 %	Insulation Service fa		: F : 1.00	
Breakdown torqu Rated speed	ue :	350 % 985 rpm	Temperatu Design		: 80 K : B	
Heating constant						
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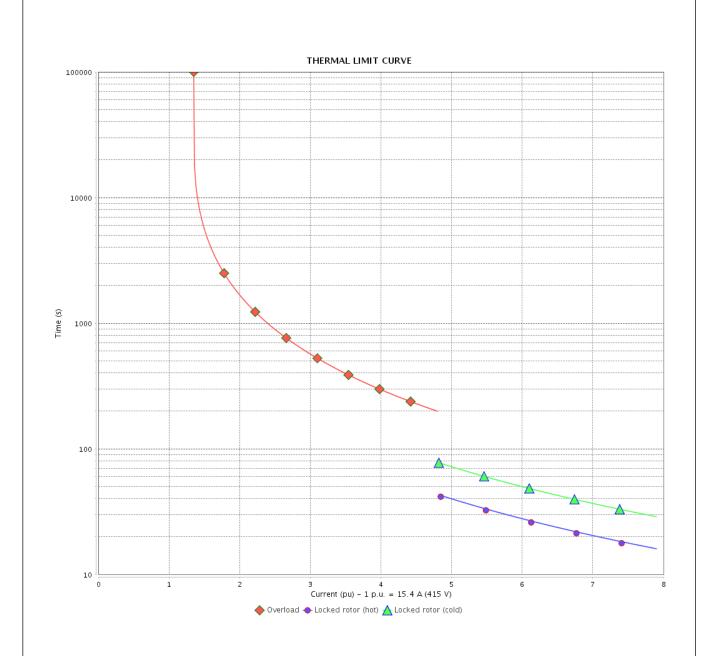


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Product line	: \ F1	W40 JP Pump NEMA Prem fficiency Three-Phase	ium I	Product code :	14485010	
	<u> </u>	molency Three-I hase	(Catalog # :	01512OT3E28	34JP-W40
Performance Rated current		15 V 50 Hz 6P IE3 5.4 A	Moment of	f inertia (J)	: 4.80 sq.ft.lb	
LRC	: 7.	9	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torq		3.3 ft.lb 60 %	Insulation Service fac		: F : 1.00	
Breakdown torqu	e : 38	30 %	Temperatu		: 80 K	
Rated speed		35 rpm	Design		: B	
Heating constant Cooling constant						
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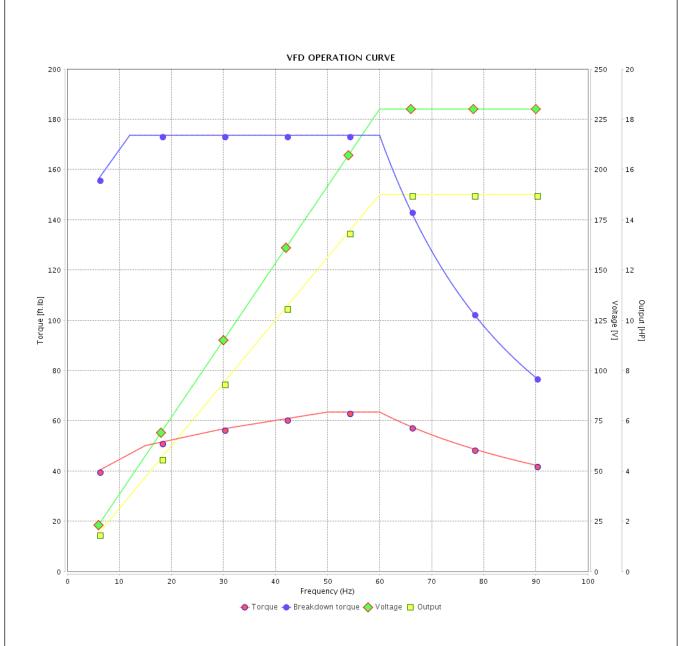
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14485010

Catalog #: 01512OT3E284JP-W40



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

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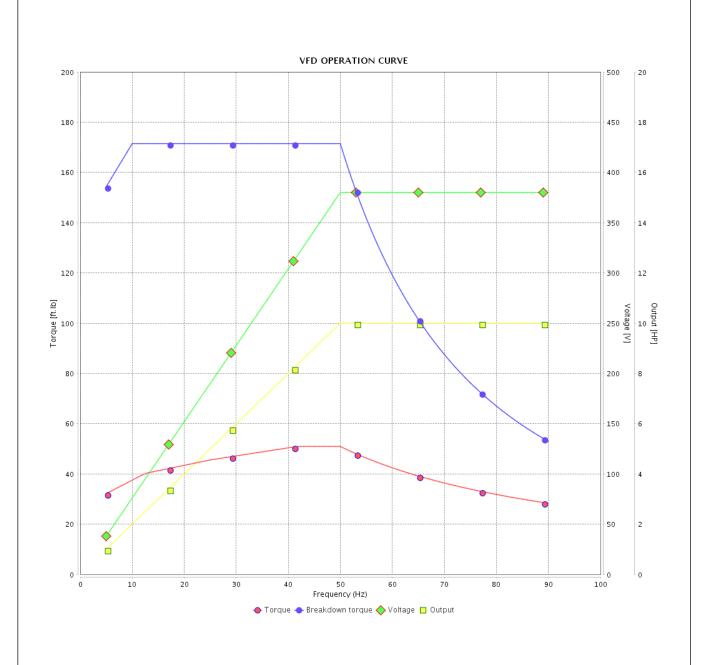
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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque	: 15.8 A : 7.3 : 53.6 ft.lb : 290 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.80 sq.ft.lb : Cont.(S1) : F :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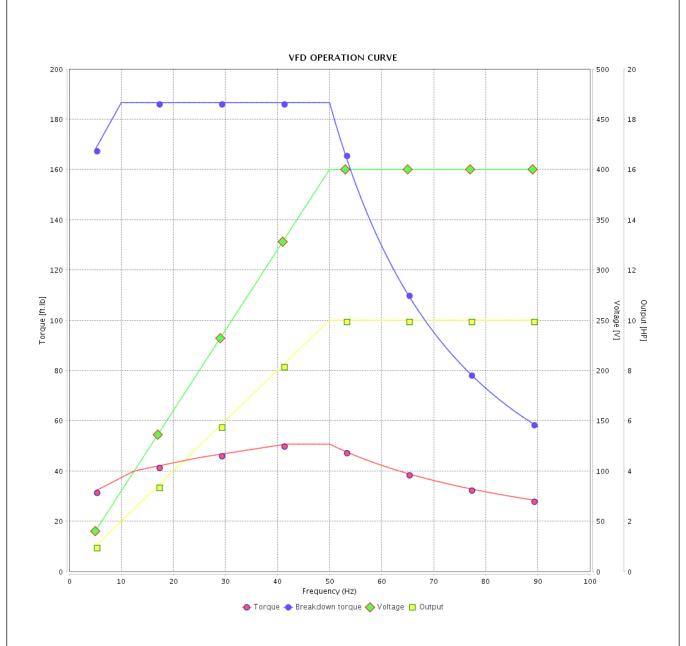
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14485010

Catalog #: 01512OT3E284JP-W40



Performance : 400 V 50 Hz 6P IE3 : 15.4 A Rated current Moment of inertia (J) : 4.80 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : 53.3 ft.lb Insulation class : F Rated torque Locked rotor torque : 330 % Service factor : 1.00 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

Three Phase Induction Motor - Squirrel Cage



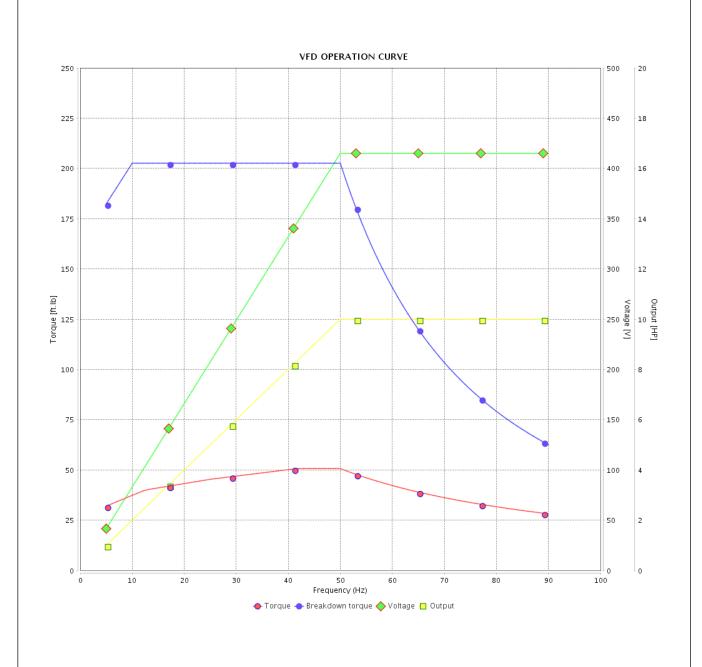
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Product line : W40 JP Pump NEMA Premium

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Performance :		15 V 50 Hz 6P IE3				
Rated current : 15		5.4 A	Moment o	Moment of inertia (J)		
LRC : 7.9		.9	Duty cycle	Duty cycle		
Rated torque : 53		3.3 ft.lb	Insulation	Insulation class		
•		60 %	Service fa	Service factor		
Breakdown torque		80 %	Temperati	Temperature rise		
Rated speed	: 98	85 rpm	rpm Design		: B	
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