DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837655

Catalog #: 02518OT3E284JMV-W40

Frame : 284/6JM

Insulation class

Duty cycle : Cont.(S1) : -20°C to +40°C Ambient temperature : 1000 m.a.s.l.

Altitude

Cooling method : IC01 - ODP : W-6

Mounting Rotation¹ : Both (CW and CCW)

Starting method : Direct On Line

Approx. weight³ : 371 lb

/ tititude		/ ipprox. weigi	Approx. Weight			
9	: IP23	Moment of ine	Moment of inertia (J) : 3.71 sq.f			
	: B					
	25	20	20	20		
	4	4	4	4		
	60	50	50	50		
	230/460	380	400	415		
	59.0/29.5	29.5	28.7	28.0		
	389/195	198	192	210		
	6.6x(Code G)	6.7x(Code G)	6.7x(Code H)	7.5x(Code J)		
	22.0/11.0	12.1	13.1	13.9		
1]	1770	1470	1475	1475		
Slip [%]		2.00	1.67	1.67		
Rated torque [ft.lb]		71.4	71.2	71.2		
Locked rotor torque [%]		229	250	270		
[%]	280	250	250 290			
	1.25	1.00 1.00		1.00		
	80 K	80 K	80 K	80 K		
	30s (cold) 17s (hot)	32s (cold) 18s (hot)	37s (cold) 21s (hot)	30s (cold) 17s (hot)		
	64.0 dB(A)					
	92.8	91.5	91.5	91.5		
	93.0	91.7	91.7	91.7		
75%	93.6	92.1	92.1	92.1		
100%		92.1	92.1	92.1		
25%	0.45	0.43	0.39	0.36		
50%	0.69	0.69	0.65	0.62		
75%	0.80	0.79	0.77	0.74		
100%	0.84	0.84	0.82	0.81		
	25% 50% 75% 100% 25% 50% 75%	: B 25 4 60 230/460 59.0/29.5 389/195 6.6x(Code G) 22.0/11.0 1] 1770 1.67 74.2 e [%] 270 [%] 280 1.25 80 K 30s (cold) 17s (hot) 64.0 dB(A) 25% 92.8 50% 93.0 75% 93.6 100% 93.6 25% 0.45 50% 0.69 75% 0.80	Second Process Seco	Second		

Drive end Non drive end

6311 Z C3 6211 Z C3 Without Without

Bearing Seal Bearing Seal

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

Foundation loads Max. traction Max. compression

Notes

Bearing type

Sealing

USABLE @208V 65.2A SF 1.15 SFA 75.0A

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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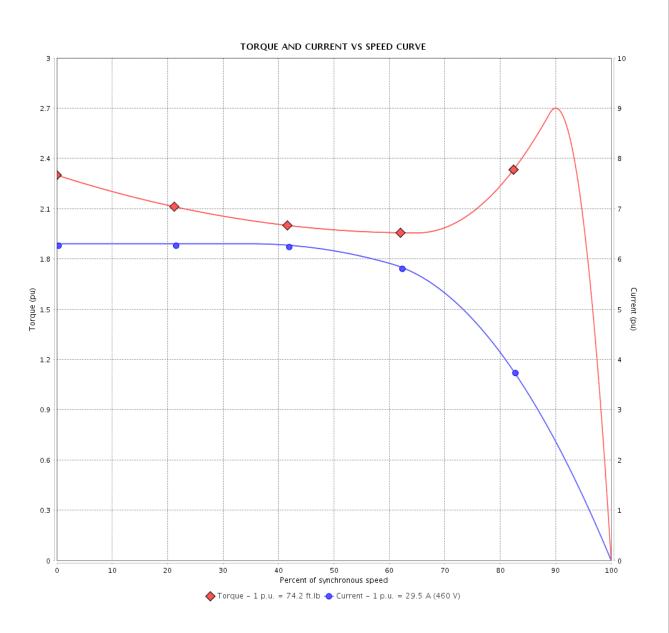
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837655

Catalog #: 02518OT3E284JMV-W40



Performance : 230/460 V 60 Hz 4P Rated current : 59.0/29.5 A Moment of inertia (J) : 3.71 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 74.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 270 % : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

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

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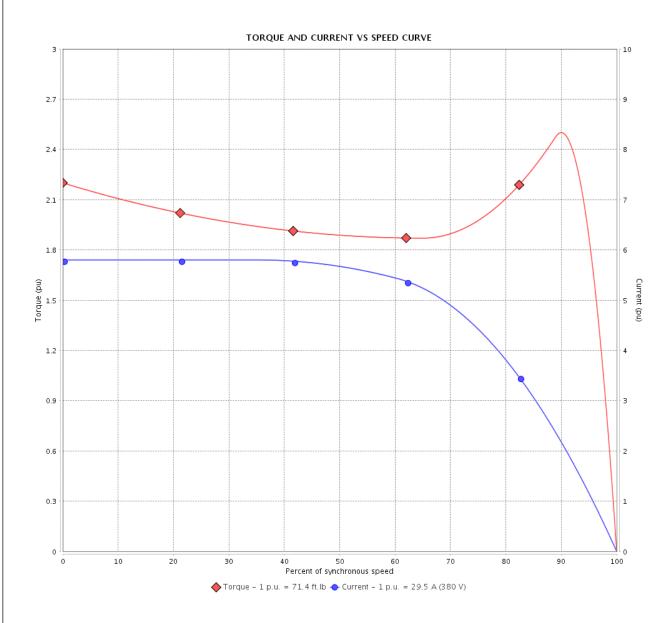
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837655

Catalog #: 02518OT3E284JMV-W40



Performance : 380 V 50 Hz 4P IE3 Rated current : 29.5 A Moment of inertia (J) : 3.71 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 71.4 ft.lb Insulation class : F Rated torque : 229 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 250 % Temperature rise : B Rated speed : 1470 rpm Design

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

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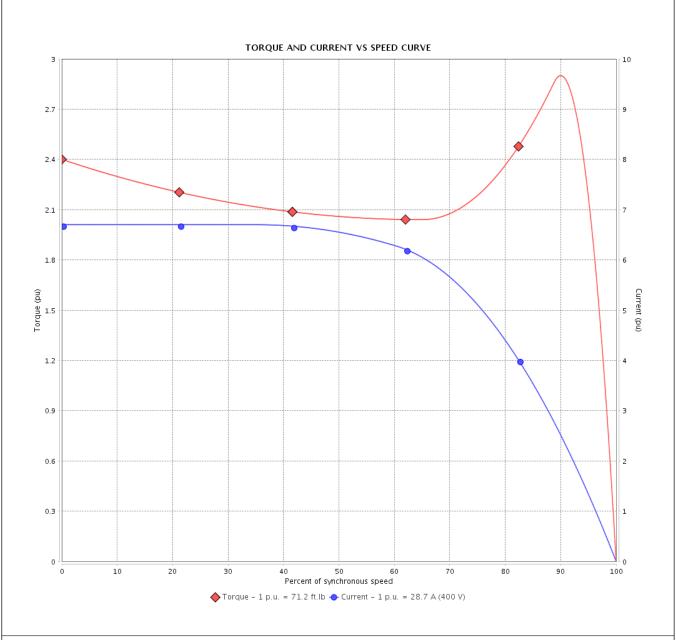
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837655

Catalog #: 02518OT3E284JMV-W40



Locked rotor torque: 250 %Service factor: 1.00Breakdown torque: 290 %Temperature rise: 80 KRated speed: 1475 rpmDesign: B

Locked rotor time : 37s (cold) 21s (hot)

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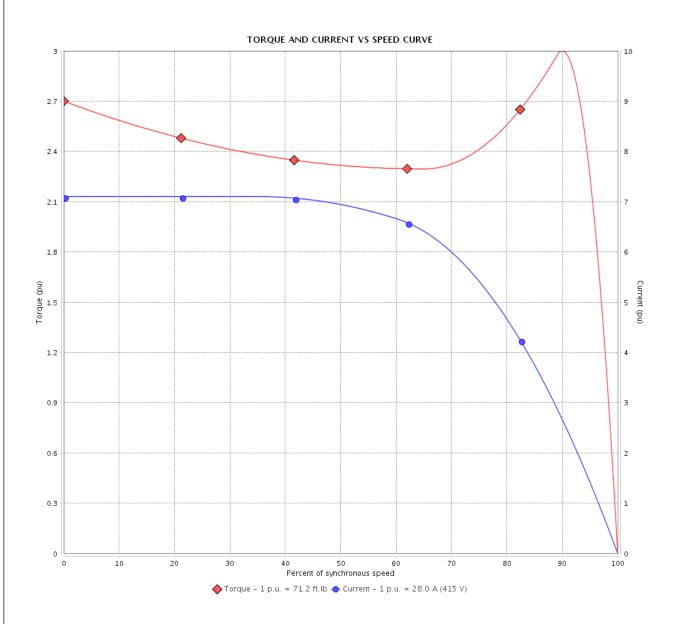
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837655

Catalog #: 02518OT3E284JMV-W40



Performance	: 415 V 50 Hz 4P IE3			
Rated current	: 28.0 A	Moment of inertia (J)	: 3.71 sq.ft.lb	
LRC	: 7.5	Duty cycle	: Cont.(S1)	
Rated torque	: 71.2 ft.lb	Insulation class	:F	
Locked rotor torque	: 270 %	Service factor	: 1.00	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 1475 rpm	Design	: B	
Locked rotor time	: 30s (cold) 17s (hot)			

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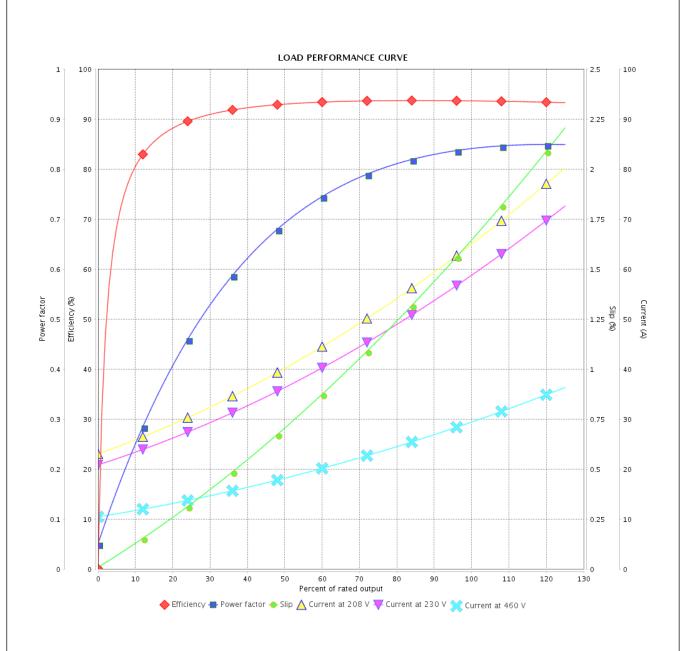
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Efficiency Three-Phase

Product code: 14837655

Catalog #: 02518OT3E284JMV-W40

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Performance	: 23	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 74 que : 27 ie : 28	Duty cycle 2.2 ft.lb Insulation of Service fac		ation class : F ice factor : 1.25 perature rise : 80 K		
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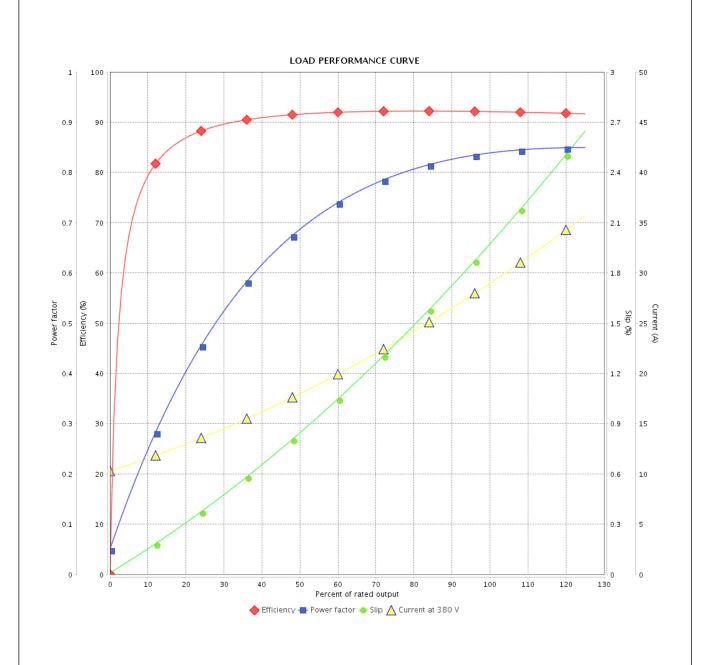
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837655

Catalog #: 02518OT3E284JMV-W40

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Performance	: 380 V 50 Hz 4P IE3				
Rated current : 29.5 A LRC : 6.7 Rated torque : 71.4 ft.lb Locked rotor torque : 229 % Breakdown torque : 250 % Rated speed : 1470 rpm		Moment of inertia (J) : 3.71 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B			
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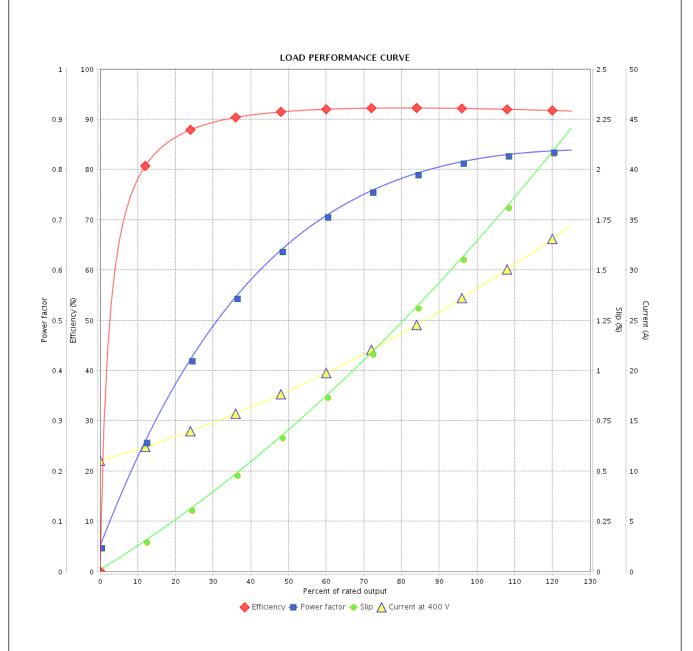
Product line : W40 JM Pump NEMA Premium

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Product code: 14837655

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Performance	: 4	100 V 50 Hz 4P IE3	3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	RC : 6.7 Duty cycle ated torque : 71.2 ft.lb Insulation bocked rotor torque : 250 % Service fareakdown torque : 290 % Temperat		class ctor	: 3.71 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
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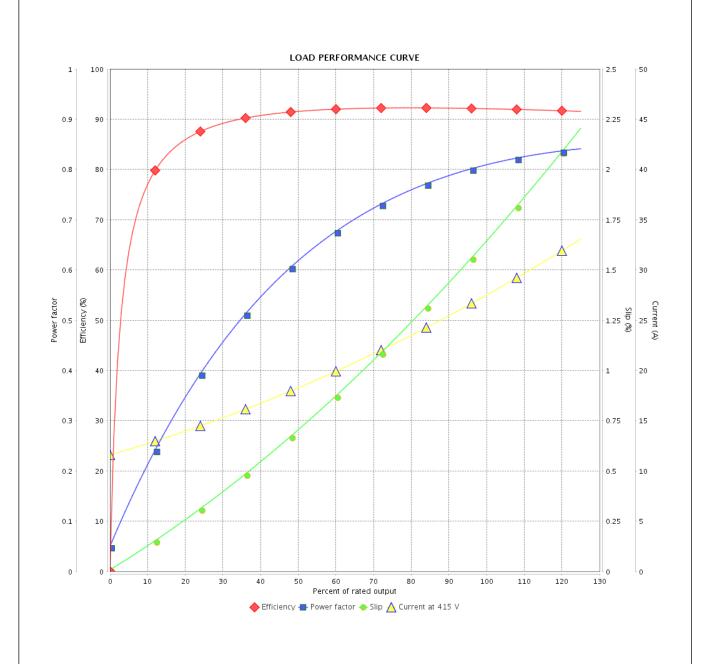
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837655

Catalog #: 02518OT3E284JMV-W40



Performance	:	415 V 50 Hz 4P IE3				
Rated current	:	28.0 A	Moment o	f inertia (J)	: 3.71 sq.ft.lb	
LRC	:	7.5	Duty cycle	;	: Cont.(S1)	
Rated torque	:	71.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie :	270 %	Service fa	ctor	: 1.00	
Breakdown torque	reakdown torque : 300 %		Temperati	Temperature rise		
Rated speed	ated speed : 1475 rpm		Design		: B	
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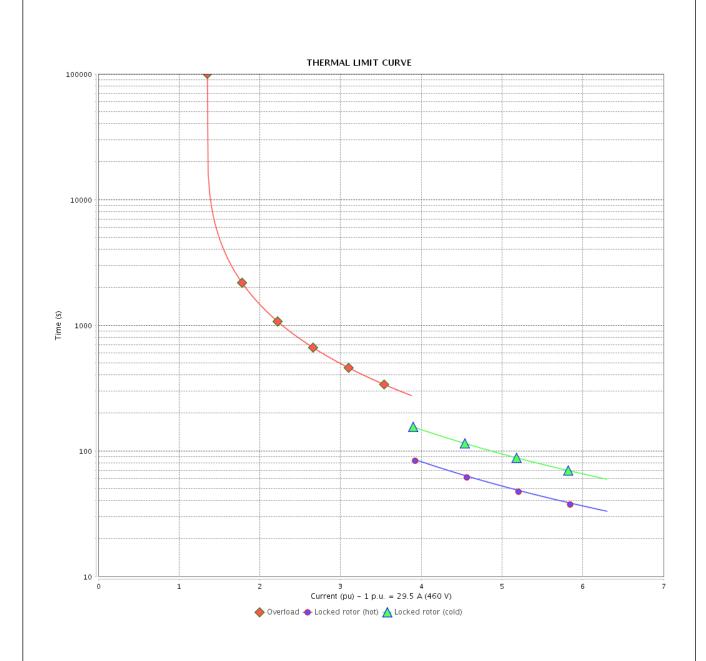


Customer	:					
Product line	: \	W40 JM Pump NEMA Prem	nium l	Product code :	14837655	
	E	fficiency Three-Phase	Catalog # :	02518OT3E28	34JMV-W40	
Performance	. 21	30/460 V 60 Hz 4P				
Rated current		9.0/29.5 A	Moment of	f inertia (J)	: 3.71 sq.ft.lb	
LRC	: 6.	6	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torque		4.2 ft.lb 70 %	Insulation Service fa		: F : 1.25	
Breakdown torque	e : 28	30 %	Temperatu		: 80 K	
Rated speed		770 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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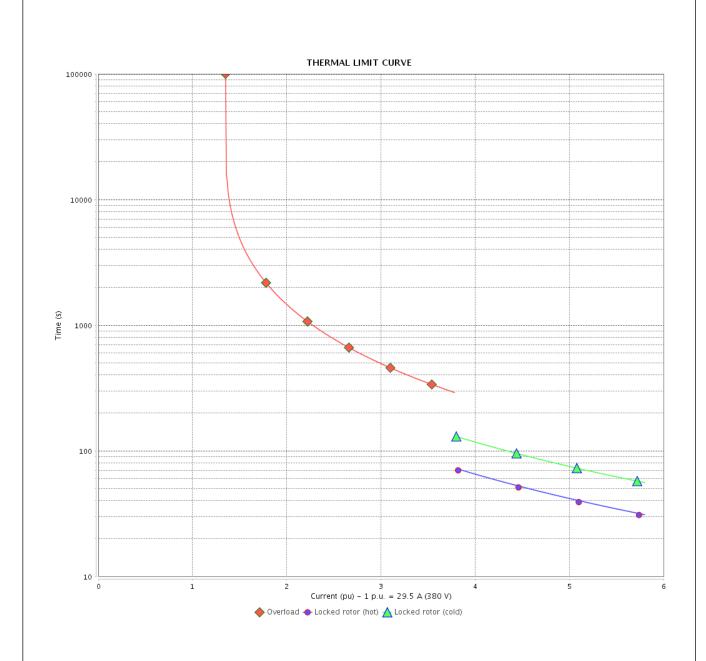


Customer		:				
Product line		: W40 JM Pump NEMA Pren Efficiency Three-Phase		Product code : Catalog # :	14837655 02518OT3E28	34.IMV-W40
					020.00.02	
Performance	:	380 V 50 Hz 4P IE3				
Rated current		29.5 A	Moment o	of inertia (J)	: 3.71 sq.ft.lb	
LRC Rated torque	:	6.7 71.4 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		229 % 250 %	Service fa		: 1.00 : 80 K	
Breakdown torqu Rated speed		250 % 1470 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constan	t					
Cooling constant	t			,		
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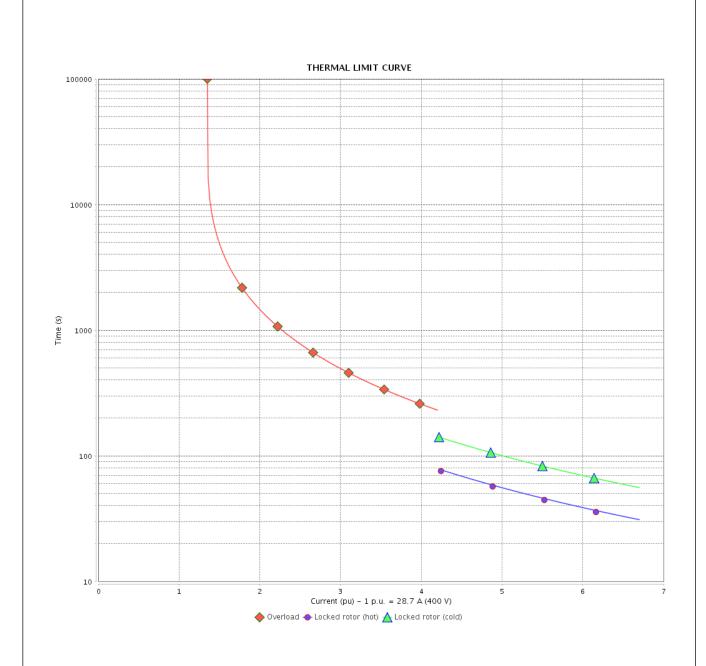


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Product line		: W40 JM Pump NEMA Pren Efficiency Three-Phase	nium	Product code :	14837655	
		, , , , , , , , , , , , , , , , , , , ,		Catalog # :	02518OT3E2	84JMV-W40
Performance		: 400 V 50 Hz 4P IE3				
Rated current LRC		: 28.7 A : 6.7	Moment of Duty cycle	of inertia (J)	: 3.71 sq.ft.lb	
Rated torque		: 71.2 ft.lb	Insulation		: Cont.(S1) : F	
Locked rotor torc	jue :	: 250 %	Service fa	ictor	: 1.00	
Breakdown torqu Rated speed		: 290 % : 1475 rpm	Temperati Design	ure rise	: 80 K : B	
			Design		. <u> </u>	
Heating constant						
Cooling constant Rev.		Changes Summers		Performed	Checked	Date
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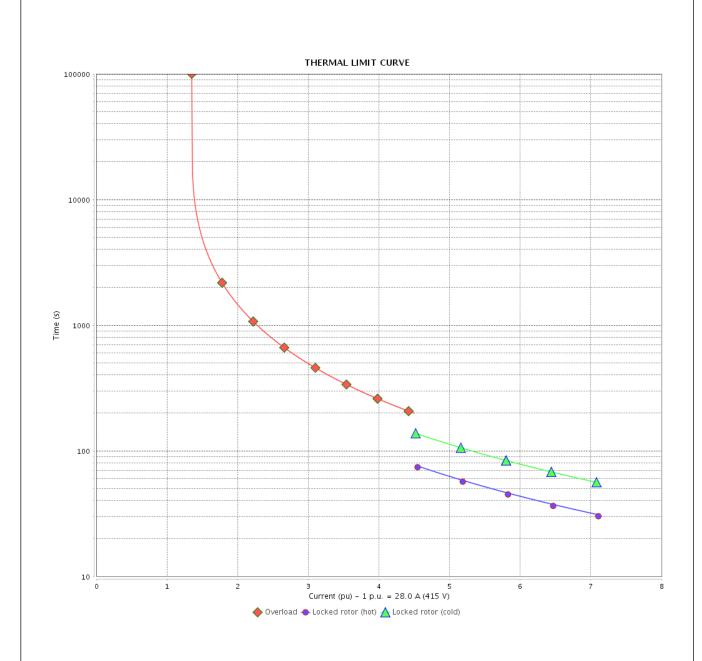


Customer	:				
Product line	: W40 JM Pump NEMA Pr Efficiency Three-Phase	remium	Product code :	14837655	
	•		Catalog #:	02518OT3E2	284JMV-W40
Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 28.0 A : 7.5 : 71.2 ft.lb : 270 % : 300 %	Moment of Duty cycle Insulation Service fa	class actor	: 3.71 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 1475 rpm	Design		: B	
Heating constant Cooling constant					
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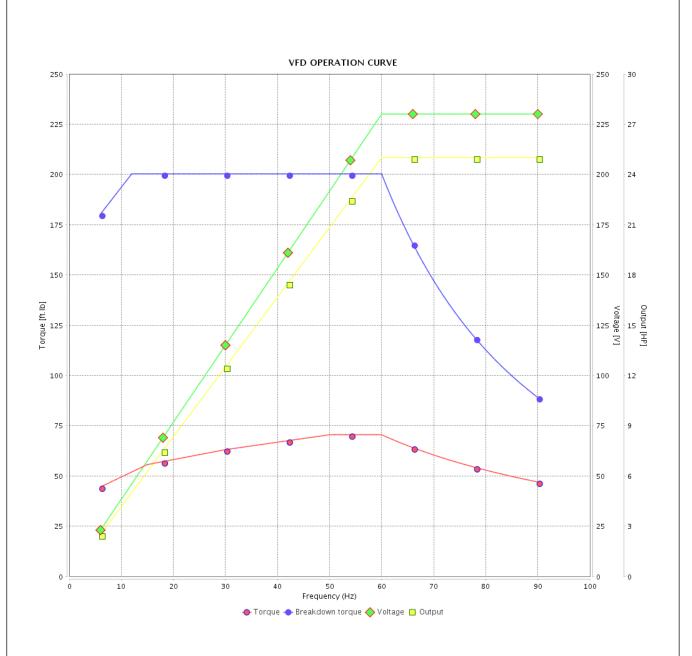
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837655

Catalog #: 02518OT3E284JMV-W40



Performance : 230/460 V 60 Hz 4P Rated current : 59.0/29.5 A Moment of inertia (J) : 3.71 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class : 74.2 ft.lb : F Rated torque Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



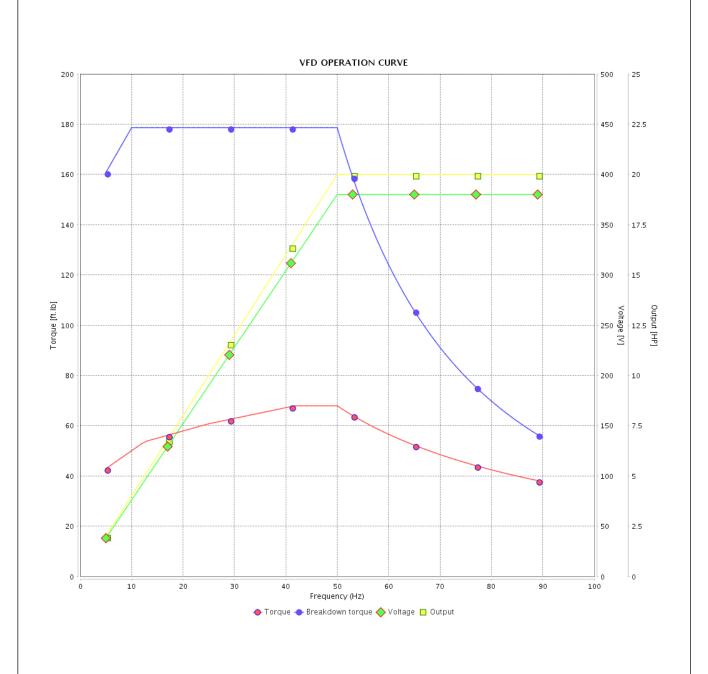
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837655

Catalog #: 02518OT3E284JMV-W40



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current : 29.5 A		Moment o	f inertia (J)	: 3.71 sq.ft.lb		
LRC	: 6	.7	Duty cycle)	: Cont.(S1)	
Rated torque	: 7	1.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	29 %	Service fa	ctor	: 1.00	
		50 %	Temperati	Temperature rise		
Rated speed		470 rpm	Design	Design		
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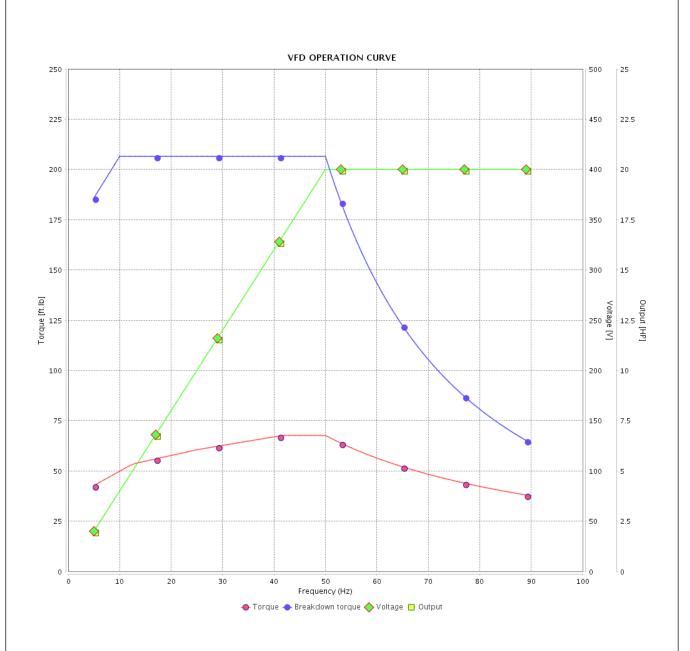
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837655

Catalog #: 02518OT3E284JMV-W40



Performance : 400 V 50 Hz 4P IE3 Rated current : 28.7 A Moment of inertia (J) : 3.71 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.7 : 71.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Rev. **Changes Summary** Performed Checked Date

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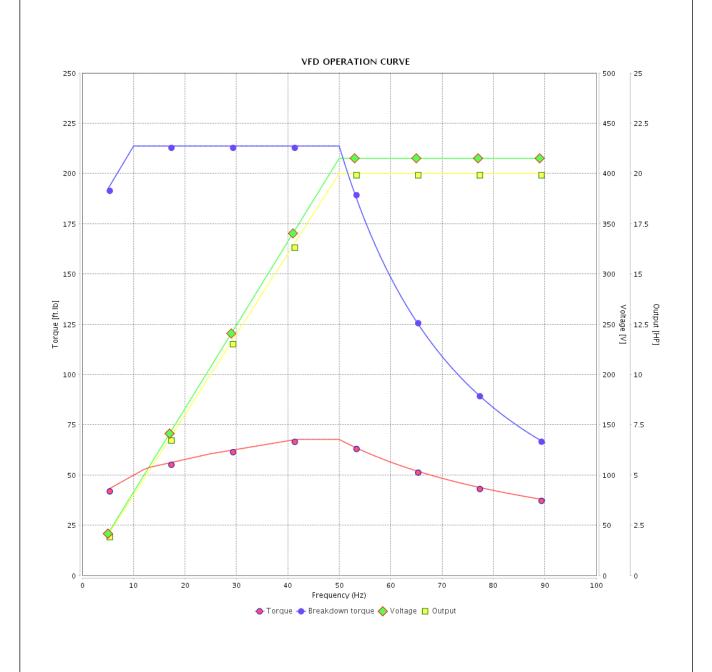
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14837655

Catalog #: 02518OT3E284JMV-W40



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current : 28.0 A		3.0 A	Moment of inertia (J)		: 3.71 sq.ft.lb	
LRC	: 7.	5	Duty cycle	•	: Cont.(S1)	
Rated torque	: 7	1.2 ft.lb	Insulation	class	: F	
		70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 30	00 %	Temperature rise		: 80 K	
Rated speed	: 14	175 rpm	Design		: B	
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