DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14367455

Catalog #: 02518OT3E284JM-W40

Frame : 284JM Cooling method : IC01 - ODP

Insulation class : F Mounting : F-1

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 : 367 lb
Protection degree : IP23 Moment of inertia (J) : 3.71 sq.ft.lb

20 4 50 415 28.0 190
4 50 415 28.0
50 415 28.0
415 28.0
28.0
190
6.8x(Code J)
12.0
1475
1.67
71.2
270
300
1.00
80 K
61s (cold) 34s (hot)
91.5
91.7
92.1
92.1
0.38
0.62
0.74
0.81

Bearing Seal Bearing Seal Lubrication interval : 20000 h 20000 h

Lubricant amount : 18 g 11 g
Lubricant type : Mobil Polyrex EM

Notes

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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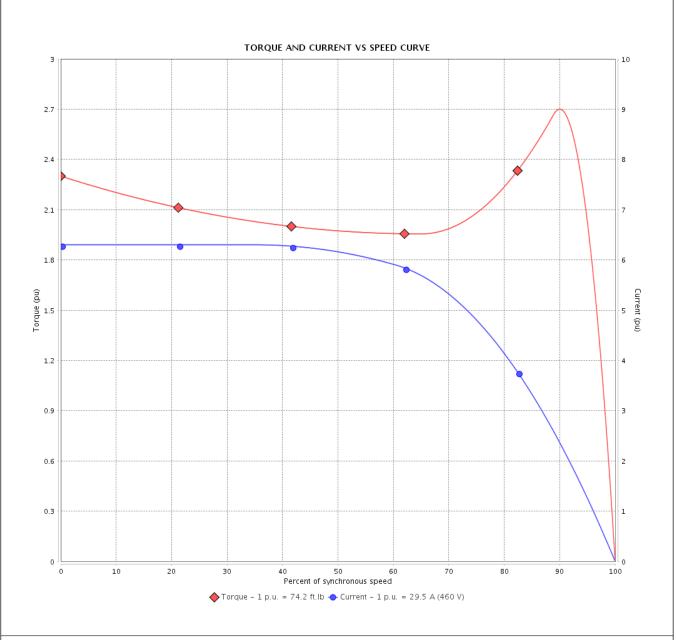
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14367455

Catalog #: 02518OT3E284JM-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** : 6.3 Duty cycle : Cont.(S1) : 74.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 250 % : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 64s (cold) 36s (hot)

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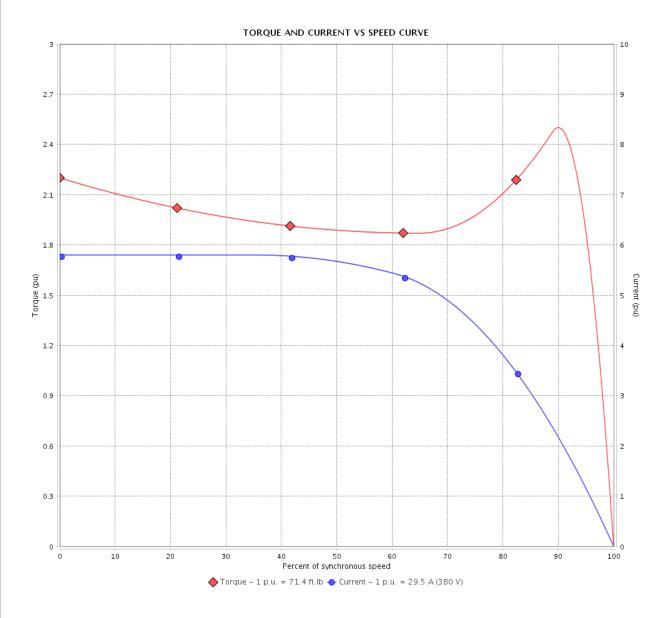
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14367455

Catalog #: 02518OT3E284JM-W40



Performance : 380 V 50 Hz 4P IE3 Rated current : 29.5 A Moment of inertia (J) : 3.71 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 71.4 ft.lb : F : 229 % Locked rotor torque Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Locked rotor time : 70s (cold) 39s (hot)

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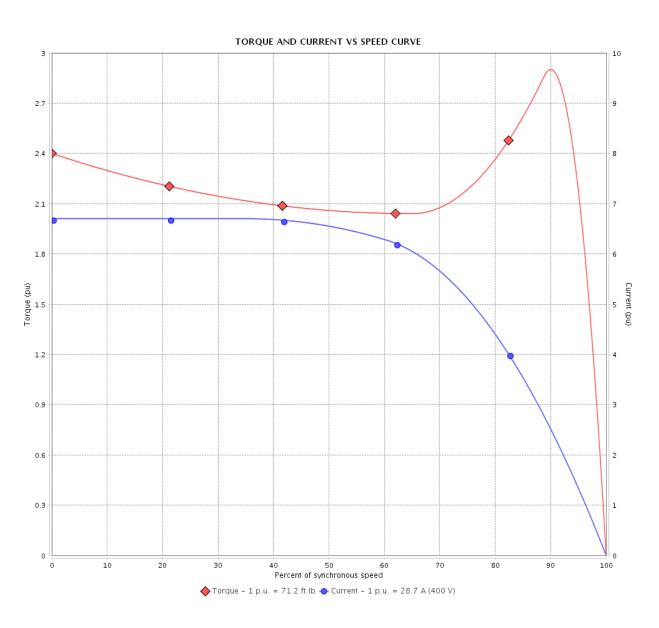
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14367455

Catalog #: 02518OT3E284JM-W40



Performance : 400 V 50 Hz 4P IE3 Rated current : 28.7 A Moment of inertia (J) : 3.71 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 71.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 250 % : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B

Locked rotor time : 64s (cold) 36s (hot)

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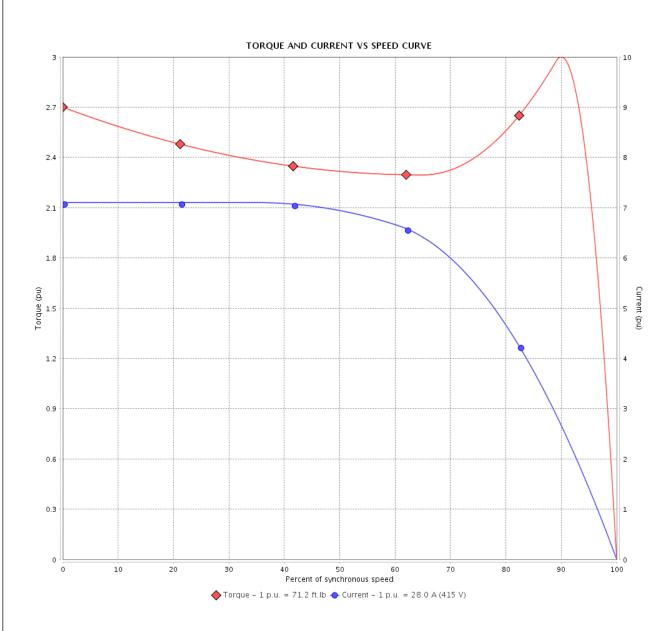


Customer

Product line : W40 JM Pump NEMA Premium Product code: 14367455

Efficiency Three-Phase

Catalog #: 02518OT3E284JM-W40



Performance : 415 V 50 Hz 4P IE3 Rated current : 28.0 A Moment of inertia (J) : 3.71 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 71.2 ft.lb Insulation class Rated torque : F : 270 % Locked rotor torque Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K : B Rated speed : 1475 rpm Design Locked rotor time

: 61s (cold) 34s (hot)

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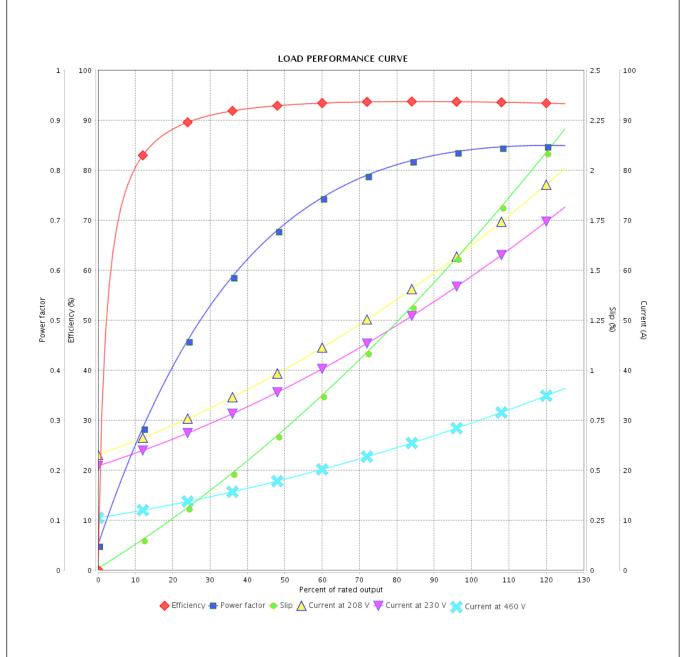
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14367455

Catalog #: 02518OT3E284JM-W40

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Performance	: 230/460 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 59.0/29.5 A : 6.3 : 74.2 ft.lb : 250 % : 270 % : 1765 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 3.71 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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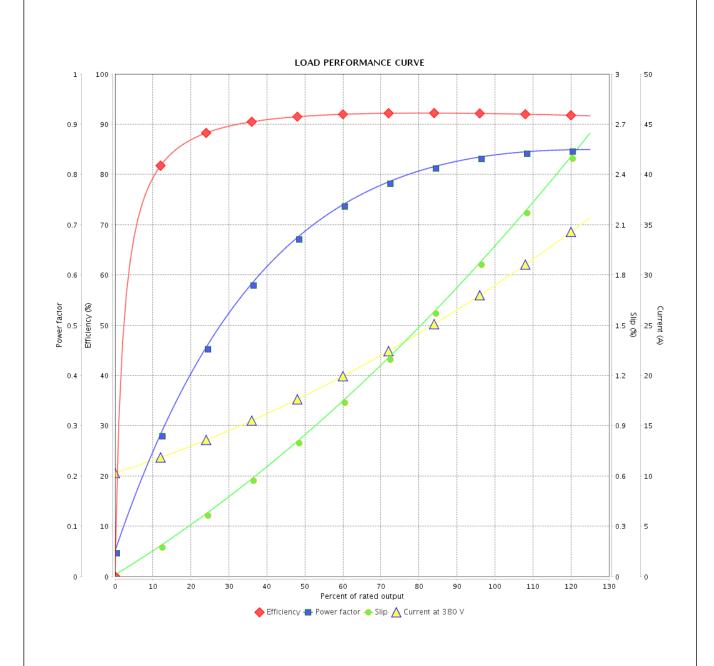
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14367455

Catalog #: 02518OT3E284JM-W40



Performance		880 V 50 Hz 4P IE3				
Rated current	: 2	29.5 A	Moment of inertia (J)		: 3.71 sq.ft.lb	
LRC	: 5	5.8	Duty cycle	;	: Cont.(S1)	
Rated torque		'1.4 ft.lb	Insulation	class	: F	
Locked rotor torque		229 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	250 % Temperature rise		ıre rise	: 80 K	
Rated speed	: 1	465 rpm	Design		: B	
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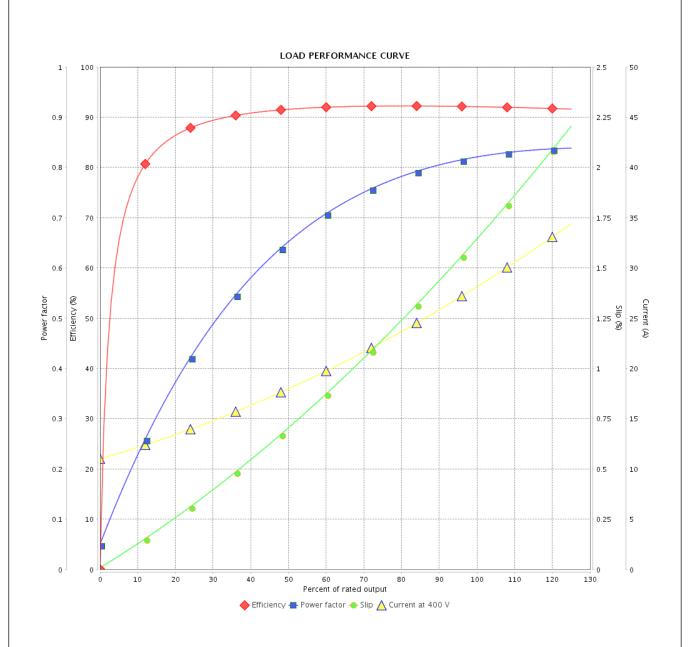
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14367455

Catalog #: 02518OT3E284JM-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 Rated torque : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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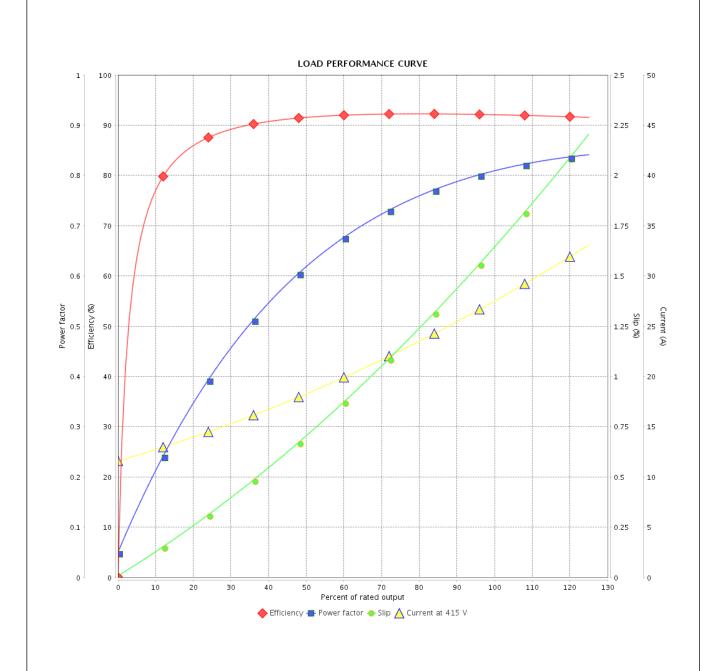
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14367455

Catalog #: 02518OT3E284JM-W40



Performance	:	415 V 50 Hz 4P IE3				
Rated current		28.0 A	0 A Moment of inertia (J)		: 3.71 sq.ft.lb	
LRC	:	6.8	Duty cycle	;	: Cont.(S1)	
Rated torque		71.2 ft.lb	Insulation	class	: F	
Locked rotor torque		270 %	Service fa	ctor	: 1.00	
Breakdown torqu	e :	300 %	Temperati	Temperature rise		
Rated speed	:	1475 rpm	Design		: B	
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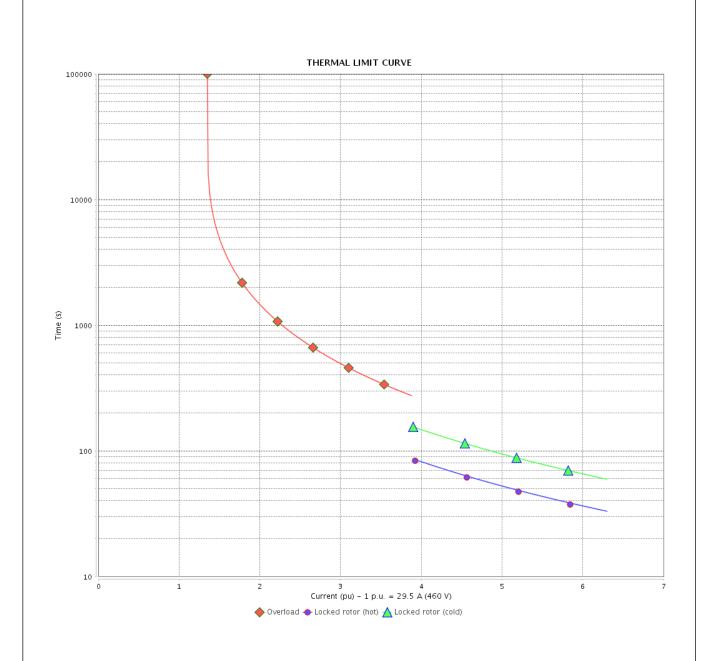


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Product line	: \ E1	N40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14367455 02518OT3E2	84JM-W40
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 59 : 6. : 74 ue : 29 e : 27 : 17	30/460 V 60 Hz 4P 3.0/29.5 A 3 4.2 ft.lb 50 % 70 % 765 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 3.71 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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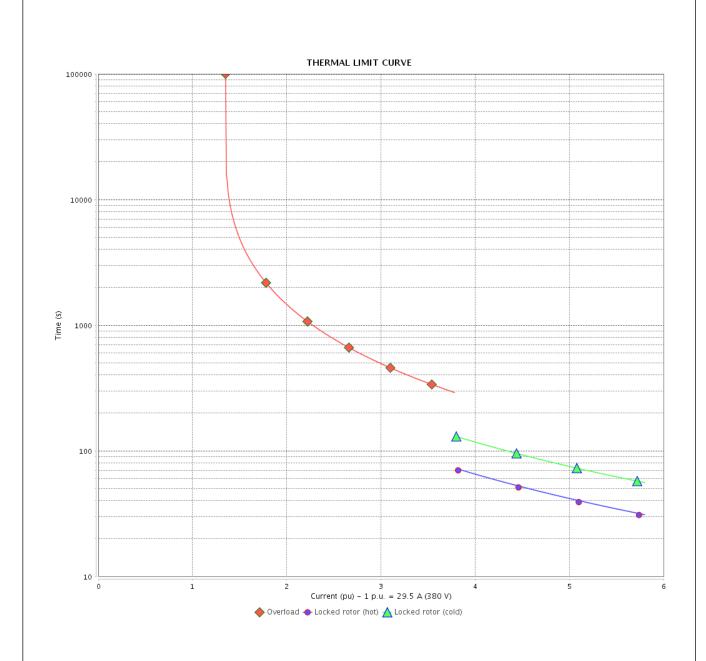


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Product line		: W40 JM Pump NEMA Prer Efficiency Three-Phase	nium Product code :		14367455	
		,		Catalog # :	02518OT3E2	84JM-W40
Performance		: 380 V 50 Hz 4P IE3				
Rated current		: 29.5 A	Moment of	of inertia (J)	: 3.71 sq.ft.lb	
LRC	:	: 5.8	Duty cycle	Э	: Cont.(S1)	
Rated torque		: 71.4 ft.lb : 229 %	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqu		: 229 % : 250 %	Temperati		: 1.00 : 80 K	
Rated speed		: 1465 rpm	Design		: B	
Heating constant						
Cooling constant						
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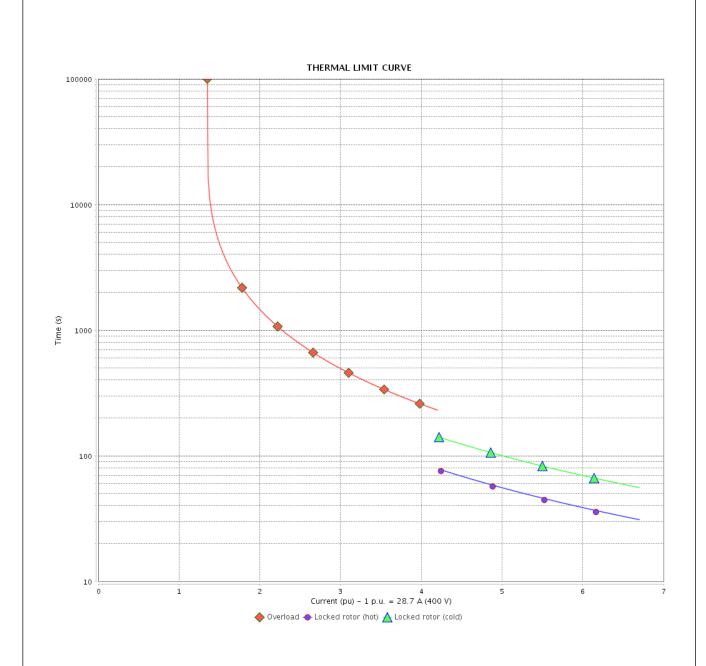


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Product line	: W40 JM Pump NEMA Pren Efficiency Three-Phase		Product code :	14367455 02518OT3E28	34JM-W40
	. 400 \/ 50 \ - 4D \ 50				
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 400 V 50 Hz 4P IE3 : 28.7 A : 6.7 : 71.2 ft.lb : 250 % : 290 % : 1470 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 3.71 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant					
Cooling constant	01 0		· · · ·		
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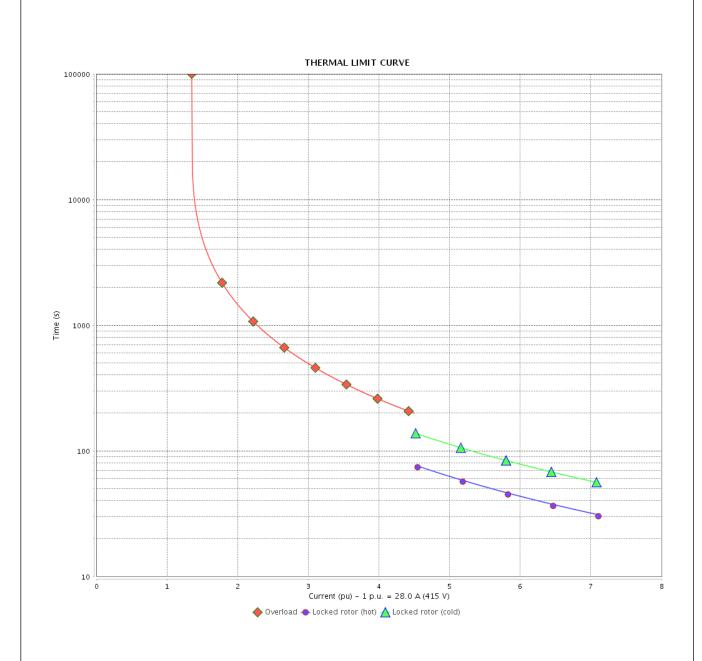


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Product line		: W40 JM Pump NEMA Prer Efficiency Three-Phase	nium	Product code :	14367455	
				Catalog # :	02518OT3E2	284JM-W40
Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC		: 28.0 A : 6.8	Moment of Duty cycle	of inertia (J)	: 3.71 sq.ft.lb : Cont.(S1)	
Rated torque		: 71.2 ft.lb	Insulation		: F	
Locked rotor tord		: 270 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 300 % : 1475 rpm	Temperate Design	ure rise	: 80 K : B	
Heating constant		•				
Cooling constant						
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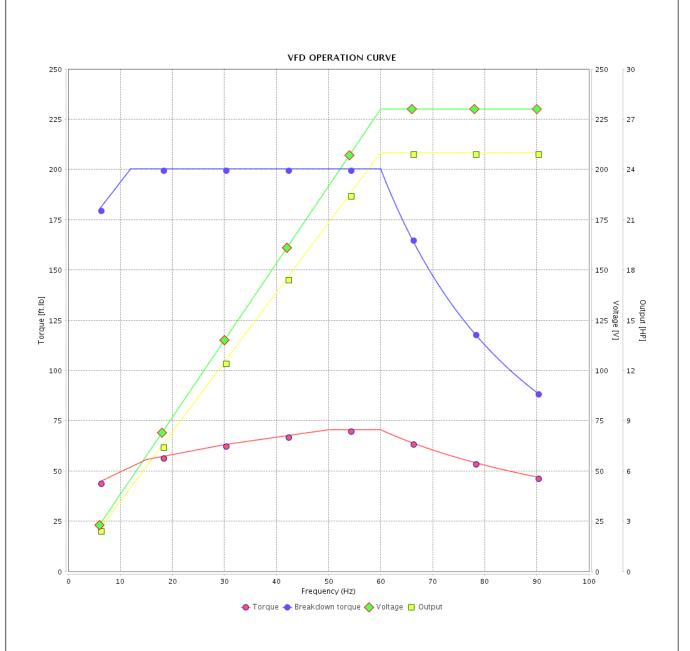
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14367455

Catalog #: 02518OT3E284JM-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) : 6.3 : 74.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



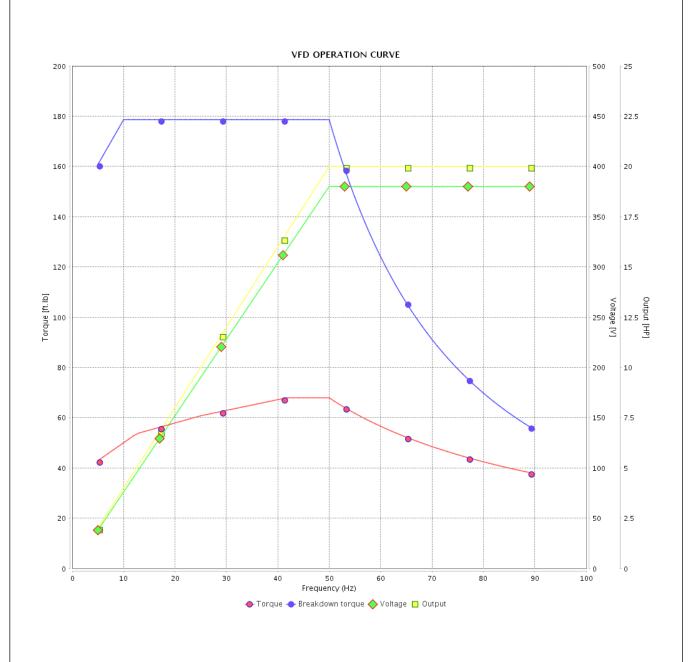
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14367455

Catalog #: 02518OT3E284JM-W40



Performance	:	380 V 50 Hz 4P IE3				
Rated current	:	29.5 A	5 A Moment of inertia (J)		: 3.71 sq.ft.lb	
LRC	:	5.8	Duty cycle	;	: Cont.(S1)	
Rated torque	:	71.4 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	229 %	Service fa	ctor	: 1.00	
Breakdown torque	:	250 %	Temperature rise		: 80 K	
Rated speed	:	1465 rpm	Design		: B	
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Customer :

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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

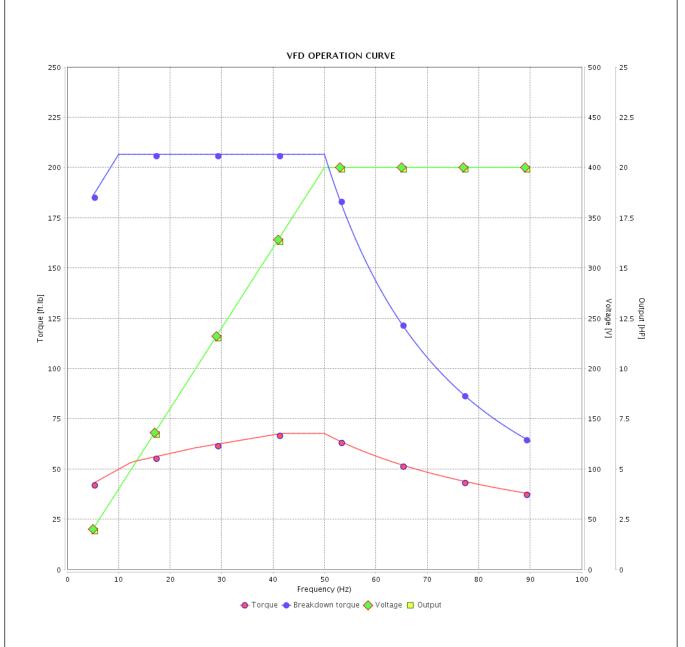
Product code: 14367455

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Performance	:	400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	iue :	28.7 A 6.7 71.2 ft.lb 250 % 290 % 1470 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 3.71 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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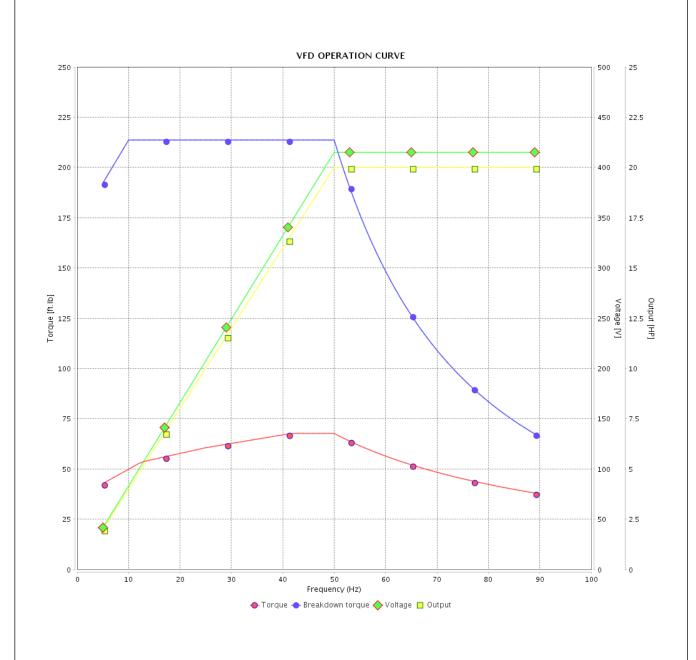
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14367455

Catalog #: 02518OT3E284JM-W40

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 28.0 A : 6.8 : 71.2 ft.lb : 270 % : 300 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.71 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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