DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269587

Catalog #: 10036OT3G365JM-W40

Frame : 364/5JM

Insulation class

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

Altitude Protection degree : IP23 Cooling method : IC01 - ODP

Mounting : F-1 Rotation¹ : Both (CW and CCW)

Starting method : Direct On Line

Approx. weight³ : 757 lb Moment of inertia (J) : 7.20 sq.ft.lb

Design : B Output [HP] 100 75 75 75 Poles 2 2 2 2 Frequency [Hz] 60 50 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 116 103 100 97.8 L. R. Amperes [A] 773 800 766 773 6.6x(Code G) 7.5x(Code H) 8.0x(Code J) 7.9x(Code J) LRC [A] No load current [A] 29.5 28.5 32.5 35.0 Rated speed [RPM] 3555 2960 2964 2967 Slip [%] 1.25 1.33 1.20 1.10 Rated torque [ft.lb] 148 133 133 133 Locked rotor torque [%] 180 220 240 250 Breakdown torque [%] 229 260 280 320 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 23s (cold) 13s (hot) 19s (cold) 11s (hot) 18s (cold) 10s (hot) 19s (cold) 11s (hot) Noise level² 84.0 dB(A) 25% 92.2 88.0 88.2 88.2 50% 92.4 90.2 90.3 90.3 Efficiency (%) 75% 93.6 91.9 92.0 92.0 94.3 94.3 94.3 100% 93.6 0.47 0.47 25% 0.55 0.53 50% 0.74 0.70 0.77 0.69 Power Factor 75% 0.84 0.83 0.78 0.80 100% 0.87 0.86 0.84 0.83

> Drive end Non drive end

6314 C3 6212 Z C3 Without Without

Bearing Seal Bearing Seal 20000 h

Lubrication interval 14418 h Lubricant amount 13 g Mobil Polyrex EM Lubricant type

Foundation loads

Max. traction : 1077 lb Max. compression : 1834 lb

Notes

Bearing type

Sealing

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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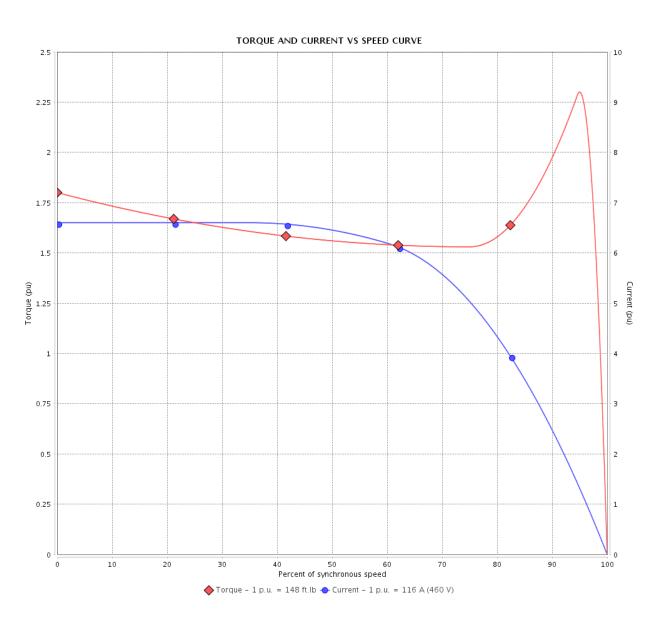


Customer :

Product line : W40 JM Pump NEMA Premium Product code : 14269587

Efficiency Three-Phase

Catalog #: 10036OT3G365JM-W40



Performance	: 460 V 60 Hz 2P		
Rated current	: 116 A	Moment of inertia (J)	: 7.20 sq.ft.lb
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 148 ft.lb	Insulation class	:F
Locked rotor torque	: 180 %	Service factor	: 1.25
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 3555 rpm	Design	: B

Locked rotor time : 23s (cold) 13s (hot)

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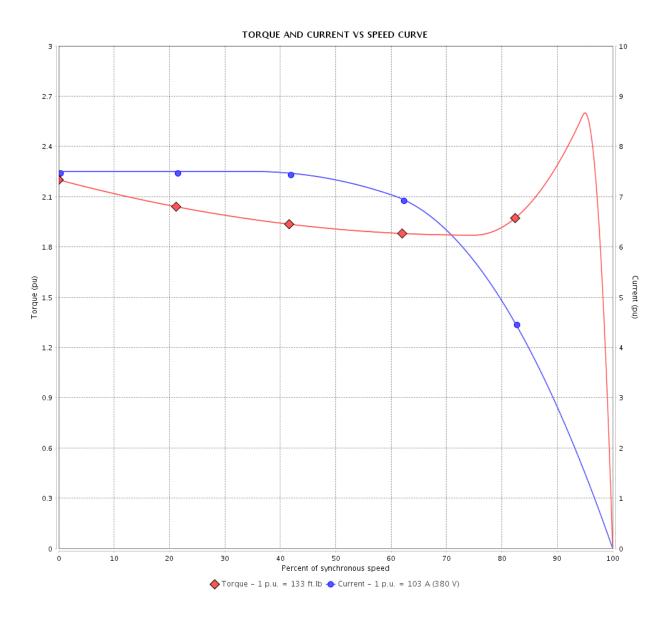
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269587

Catalog #: 10036OT3G365JM-W40



Performance : 380 V 50 Hz 2P IE3 Rated current : 103 A Moment of inertia (J) : 7.20 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 133 ft.lb : 220 % Locked rotor torque Service factor : 1.00 : 80 K Breakdown torque : 260 % Temperature rise : B Rated speed : 2960 rpm Design

Locked rotor time : 19s (cold) 11s (hot)

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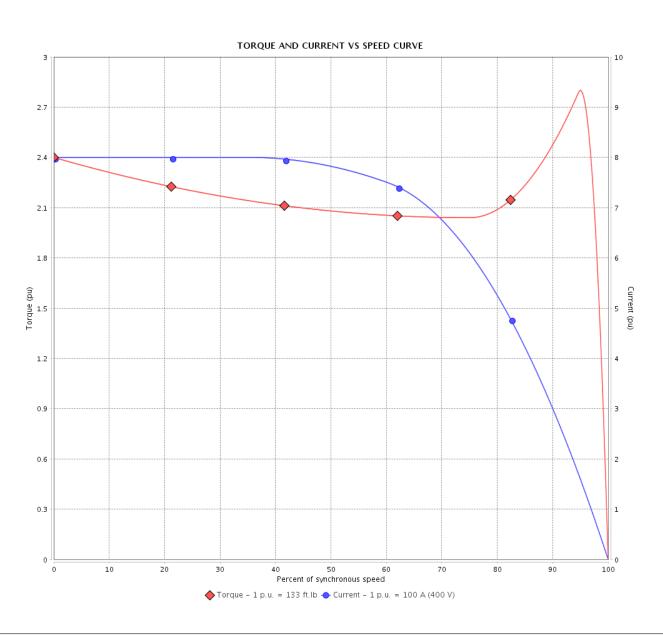
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269587

Catalog #: 10036OT3G365JM-W40



Performance	: 400 V 50 Hz 2P IE3		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 100 A : 8.0 : 133 ft.lb : 240 % : 280 % : 2964 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 7.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B
Rated speed	: 2964 rpm	Design	: B

Locked rotor time : 18s (cold) 10s (hot)

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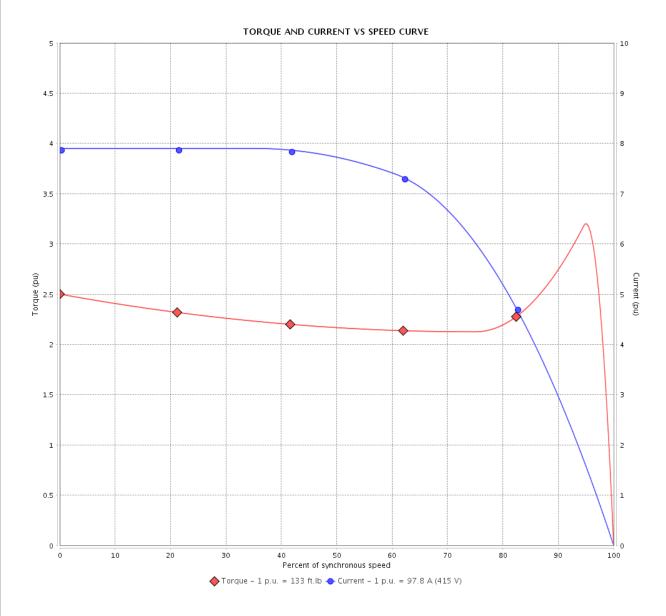
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269587

Catalog #: 10036OT3G365JM-W40



Performance : 415 V 50 Hz 2P IE3 Rated current : 97.8 A Moment of inertia (J) : 7.20 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 133 ft.lb : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 320 % Temperature rise : 80 K : B Rated speed : 2967 rpm Design Locked rotor time : 19s (cold) 11s (hot)

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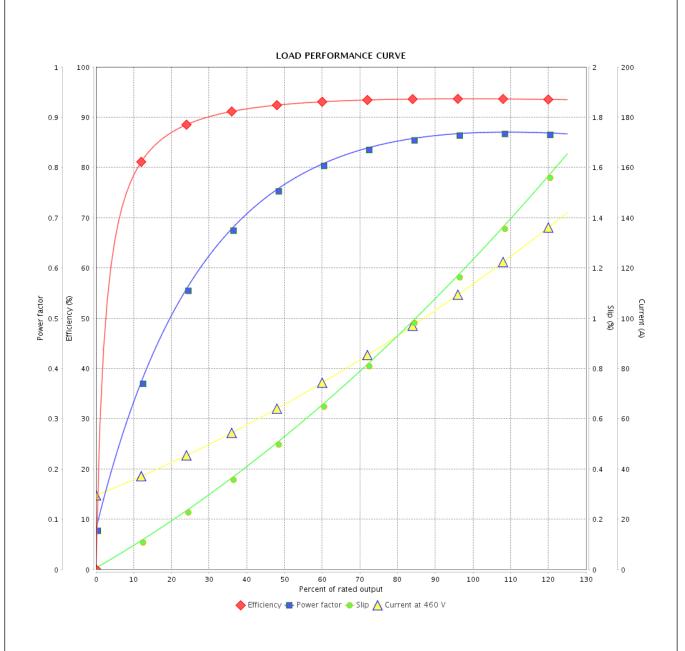
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Efficiency Three-Phase

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: 460 V 60 Hz 2P						
: 116 A : 6.6 : 148 ft.lb : 180 % : 229 % : 3555 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		Duty cycle : Cont.(S1) t.lb Insulation class : F Service factor : 1.25 Temperature rise : 80 K		: F : 1.25 : 80 K	
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	: 116 A : 6.6 : 148 ft.lb : 180 % : 229 % : 3555 rpm	: 116 A Moment of inerti : 6.6 Duty cycle : 148 ft.lb Insulation class : 180 % Service factor : 229 % Temperature rise : 3555 rpm Design	: 116 A Moment of inertia (J) : 6.6 Duty cycle : 148 ft.lb Insulation class : 180 % Service factor : 229 % Temperature rise : 3555 rpm Design	: 116 A Moment of inertia (J) : 7.20 sq.ft.lb : 6.6 Duty cycle : Cont.(S1) : 148 ft.lb Insulation class : F : 180 % Service factor : 1.25 : 229 % Temperature rise : 80 K : 3555 rpm Design : B		

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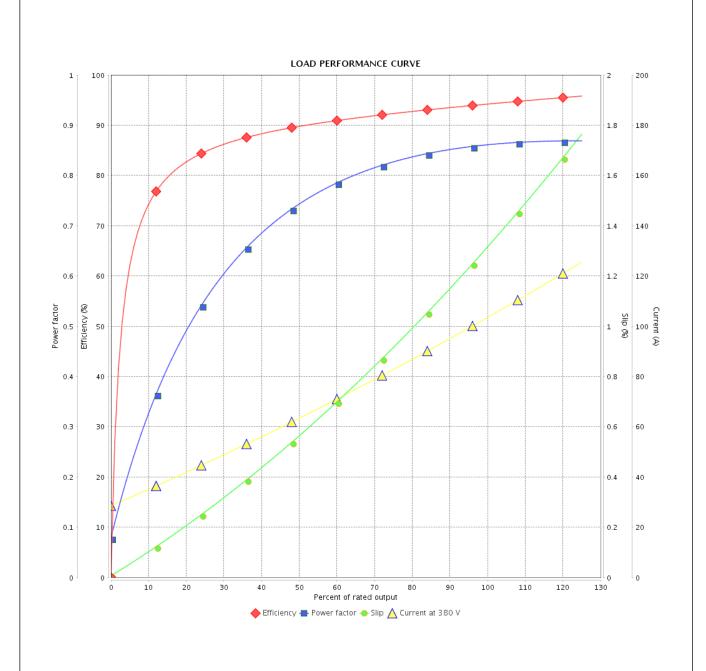
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269587

Catalog #: 10036OT3G365JM-W40



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	: 1	03 A	Moment o	f inertia (J)	: 7.20 sq.ft.lb	
LRC	: 7	7.5	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	33 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	20 %	Service fa	ctor	: 1.00	
Breakdown torqu	ıe : 2	.60 %	Temperature rise		: 80 K	
Rated speed	: 2	.960 rpm	Design		: B	
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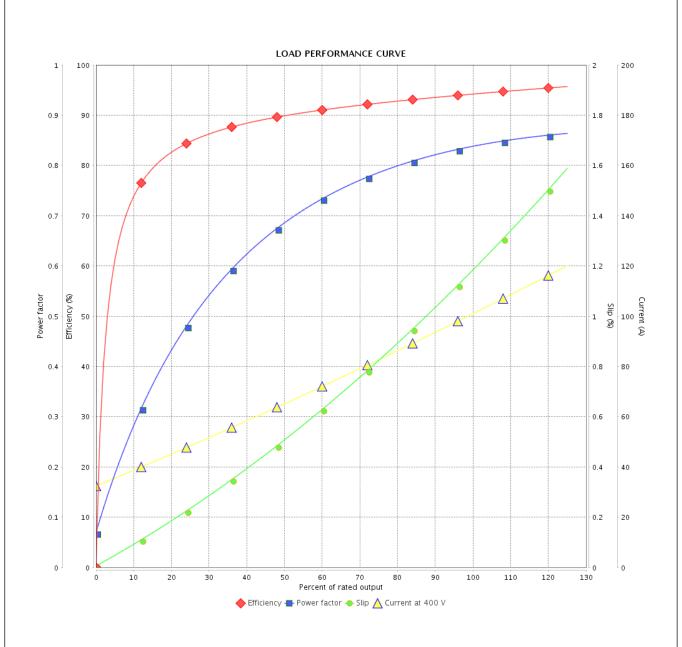
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Efficiency Three-Phase

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Performance	: 400 V 50 Hz 2P IE3	: 400 V 50 Hz 2P IE3							
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 100 A : 8.0 : 133 ft.lb : 240 % : 280 % : 2964 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 7.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B					
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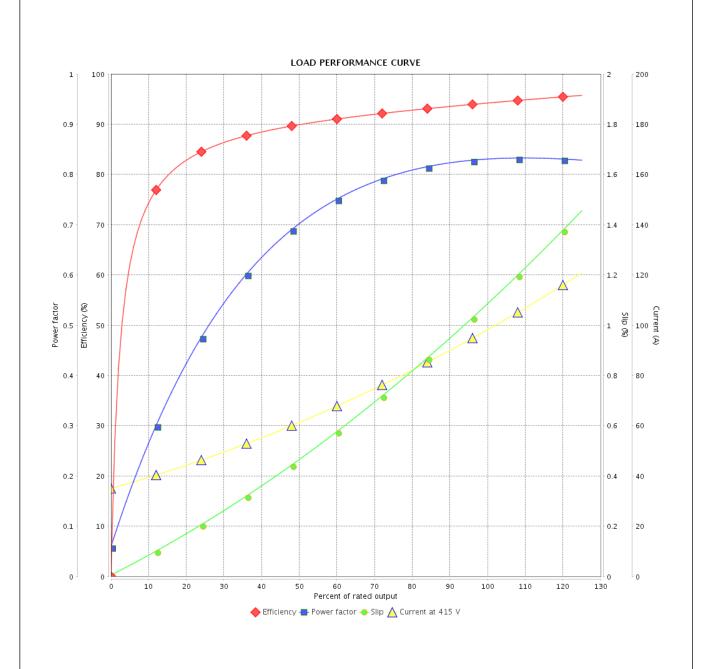
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269587

Catalog #: 10036OT3G365JM-W40



Performance	: 4	15 V 50 Hz 2P IE3	•			
Rated current	: 9	7.8 A	Moment of	of inertia (J)	: 7.20 sq.ft.lb	
LRC	: 7	.9	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 1	33 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	50 %	Service fa	actor	: 1.00	
Breakdown torque	: 3	20 %	Temperature rise		: 80 K	
Rated speed	: 2	967 rpm	Design		: B	
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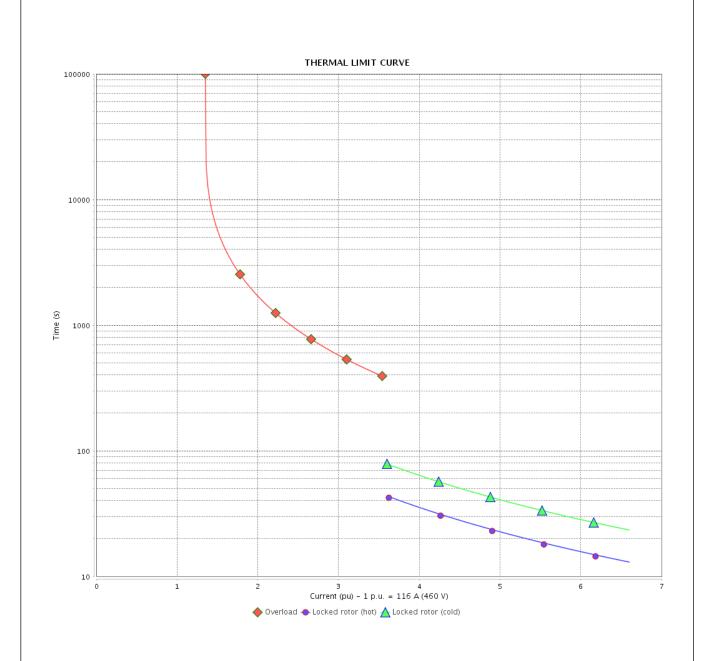


Customer		:				
Product line		: W40 JM Pump NEMA Pren Efficiency Three-Phase		Product code : Catalog # :	14269587 10036OT3G3	65JM-W40
Performance		: 460 V 60 Hz 2P				
Rated current LRC		: 116 A : 6.6	Moment of Duty cycle	of inertia (J)	: 7.20 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 148 ft.lb : 180 %	Insulation Service fa	class	: F : 1.25	
Breakdown torqu	ue :	: 229 %	Temperati		: 80 K	
Rated speed		: 3555 rpm	Design		: B	
Heating constan						
Cooling constant	l	Changes Summary		Performed	Checked	Date
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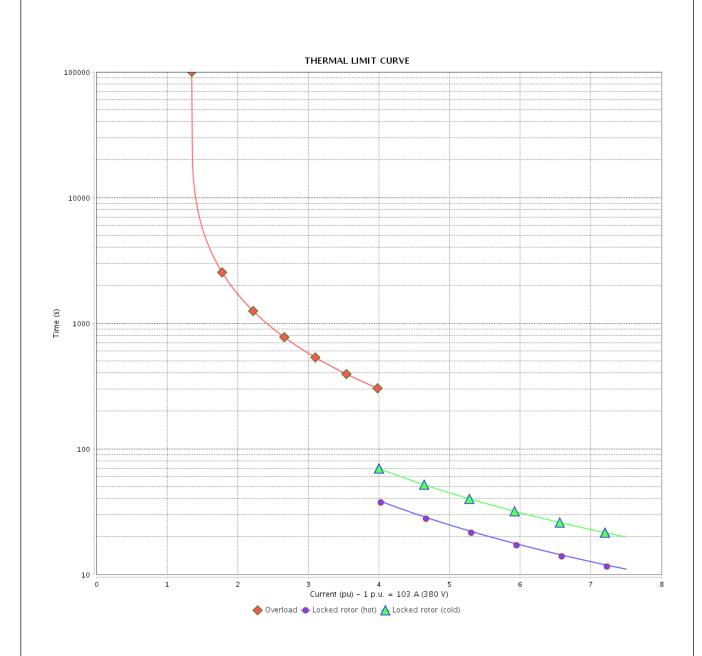


Customer		:				
Product line		: W40 JM Pump NEMA Pren Efficiency Three-Phase	nium	Product code :	14269587	
		,		Catalog # :	10036OT3G3	65JM-W40
Performance	:	380 V 50 Hz 2P IE3				
Rated current	:	103 A	Moment o	f inertia (J)	: 7.20 sq.ft.lb	
LRC Rated torque		7.5 133 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	220 %	Service fa	ctor	: 1.00	
Breakdown torqu		260 %	Temperati	ure rise	: 80 K	
Rated speed		2960 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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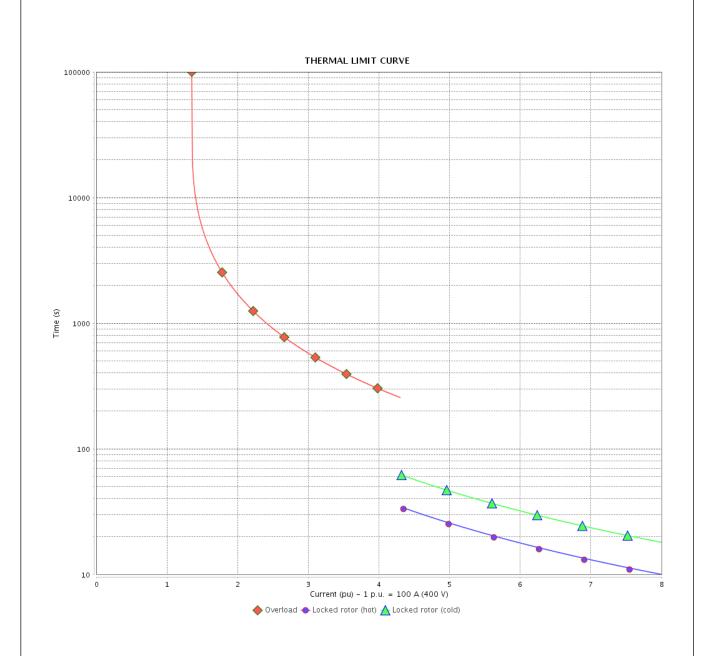


Customer		:				
Product line		: W40 JM Pump NEMA Pren Efficiency Three-Phase	nium	Product code :	14269587	
		Ellicities Tillee-i Hase		Catalog # :	10036OT3G3	65JM-W40
Performance		: 400 V 50 Hz 2P IE3				
Rated current LRC		: 100 A : 8.0	Moment of Duty cycle	f inertia (J)	: 7.20 sq.ft.lb : Cont.(S1)	
Rated torque		: 133 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		: 240 % : 280 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		: 2964 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
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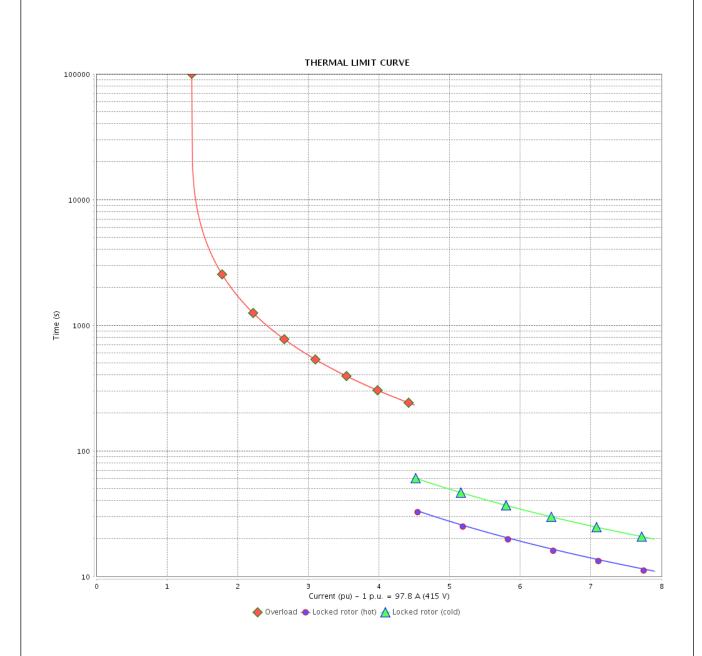


Customer	:					
Product line	:	W40 JM Pump NEMA Prem	nium	Product code :	14269587	
	E	Efficiency Three-Phase		Catalog # :	10036OT3G3	65JM-W40
Performance Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed	: 9 : 7 : 1 e : 2	115 V 50 Hz 2P IE3 27.8 A 7.9 133 ft.lb 250 % 320 % 2967 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 7.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant						
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

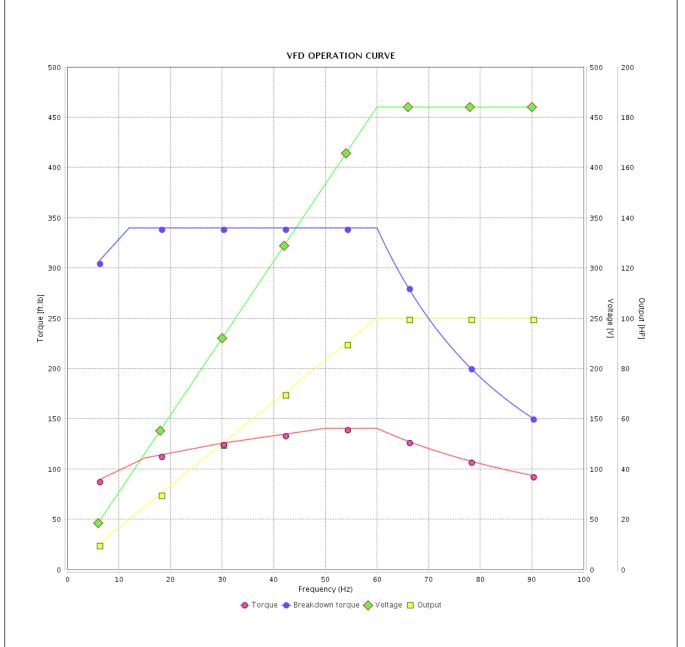
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Performance	: 4	60 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 ue : 1 e : 2	16 A 5.6 48 ft.lb 80 % 229 % 8555 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ector	: 7.20 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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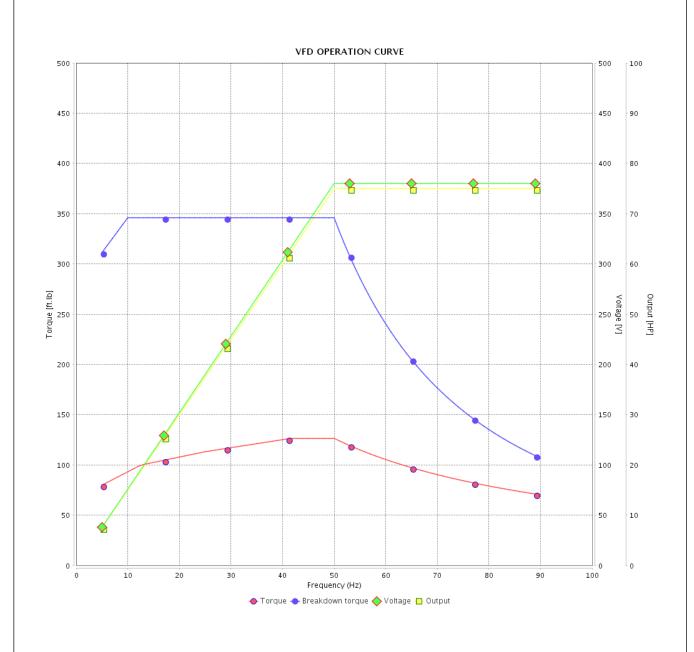
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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 103 A : 7.5 : 133 ft.lb : 220 % : 260 % : 2960 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 7.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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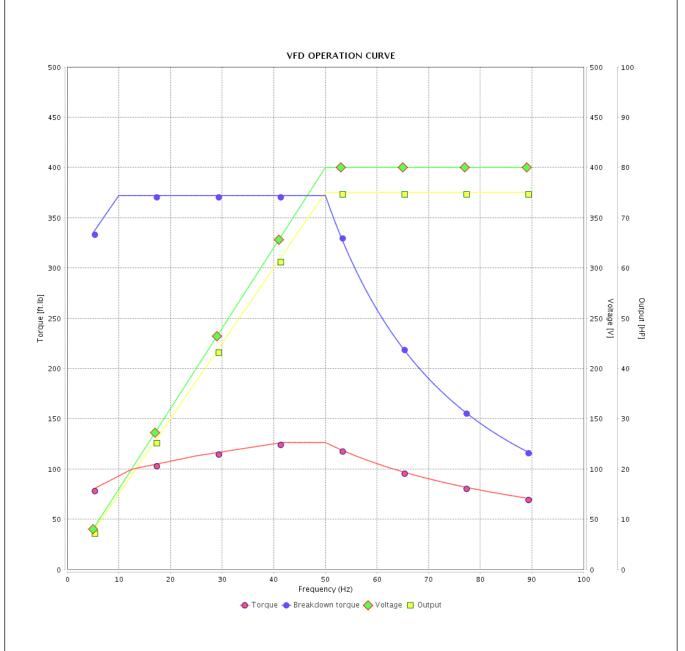
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14269587

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 100 A : 8.0 : 133 ft.lb : 240 % : 280 % : 2964 rpm	Duty cycle ft.lb Insulation class Service factor Temperature rise		: 7.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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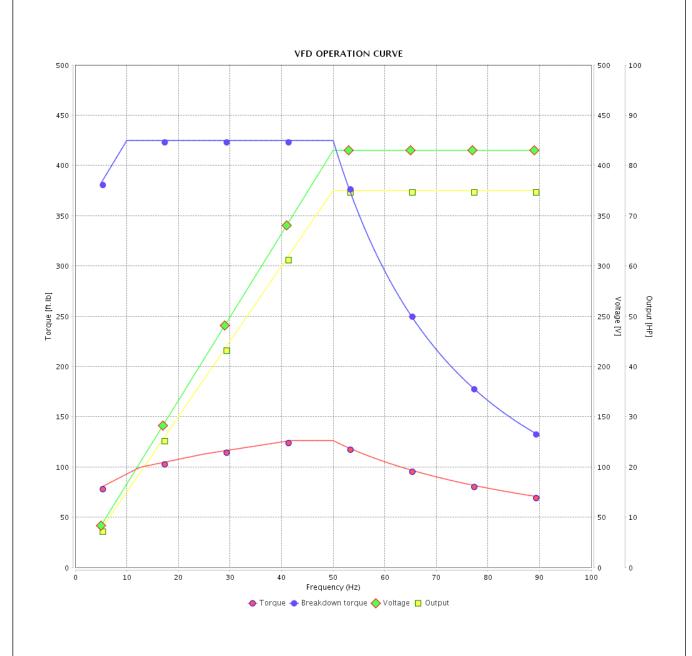
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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 97.8 A : 7.9 : 133 ft.lb : 250 % : 320 % : 2967 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 7.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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