DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483182

Catalog # : 01012OT3E256JM-W40

Frame : 254/6JM 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 : 271 lb

: IP23 Moment of inertia (J) Protection degree : 3.53 sq.ft.lb Design : B Output [HP] 10 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] 25.6/12.8 15.0 14.6 14.3 L. R. Amperes [A] 174/87.0 94.4 88.5 93.4 5.9x(Code G) 6.6x(Code H) LRC [A] 6.8x(Code H) 6.4x(Code H) No load current [A] 12.2/6.10 6.10 6.50 6.80 Rated speed [RPM] 1180 970 975 975 1.67 Slip [%] 3.00 2.50 2.50 Rated torque [ft.lb] 44.5 54.1 53.9 53.9 Locked rotor torque [%] 229 190 210 229 Breakdown torque [%] 300 229 260 280 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 30s (cold) 17s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) Noise level² 59.0 dB(A) 25% 89.4 88.3 88.3 88.3 50% 90.2 88.6 88.6 88.6 Efficiency (%) 75% 89.0 89.0 91.0 89.0 100% 91.7 89.1 89.1 89.1 0.38 25% 0.37 0.44 0.41 50% 0.70 0.62 0.66 0.63 Power Factor 75% 0.74 0.80 0.78 0.76 100% 0.80 0.85 0.83 0.82

Drive end Non drive end 6309 Z C3

Bearing type : 6309 Z C3 6209 Z C3 Sealing : Without Without

Bearing Seal Bearing Seal

Lubrication interval:20000 h20000 hLubricant amount:13 g9 gLubricant type:Mobil Polyrex EM

Foundation loads
Max. traction
Max. compression

Notes

USABLE @208V 28.3A SF 1.15 SFA 32.6A

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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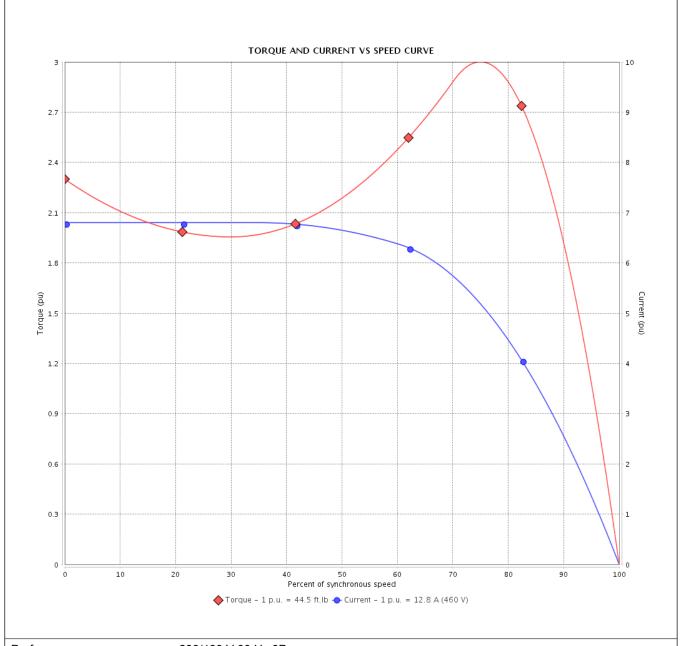
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483182

Catalog #: 01012OT3E256JM-W40



Performance : 230/460 V 60 Hz 6P Rated current : 25.6/12.8 A Moment of inertia (J) : 3.53 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 44.5 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.25 Breakdown torque : 300 % Temperature rise : 80 K

Rated speed : 1180 rpm Design : B

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

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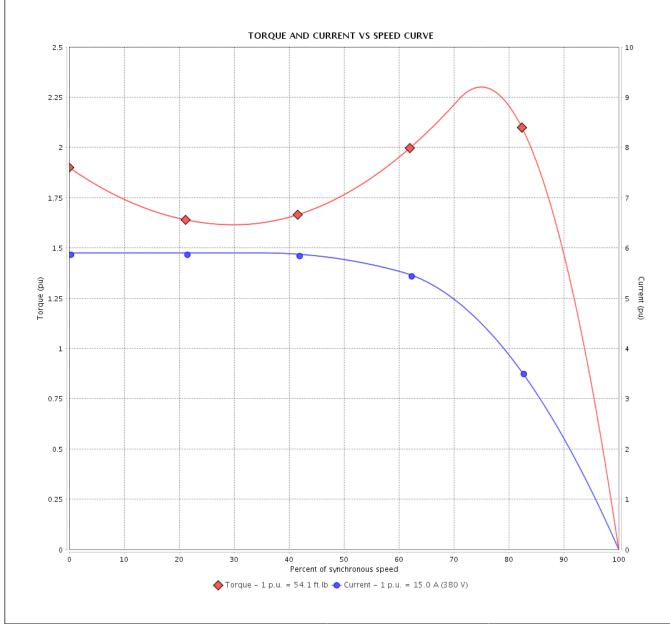
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Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483182

Catalog #: 01012OT3E256JM-W40



Performance : 380 V 50 Hz 6P IE3 Rated current : 15.0 A Moment of inertia (J) : 3.53 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 54.1 ft.lb : F : 190 % Locked rotor torque Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 970 rpm Design : B Locked rotor time : 25s (cold) 14s (hot)

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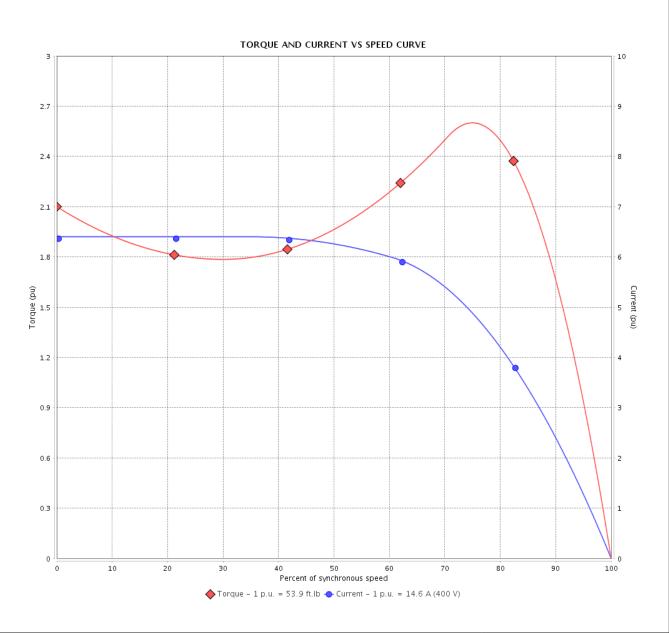
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483182

Catalog #: 01012OT3E256JM-W40



Performance : 400 V 50 Hz 6P IE3 Rated current : 14.6 A Moment of inertia (J) : 3.53 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 53.9 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 210 % : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 975 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

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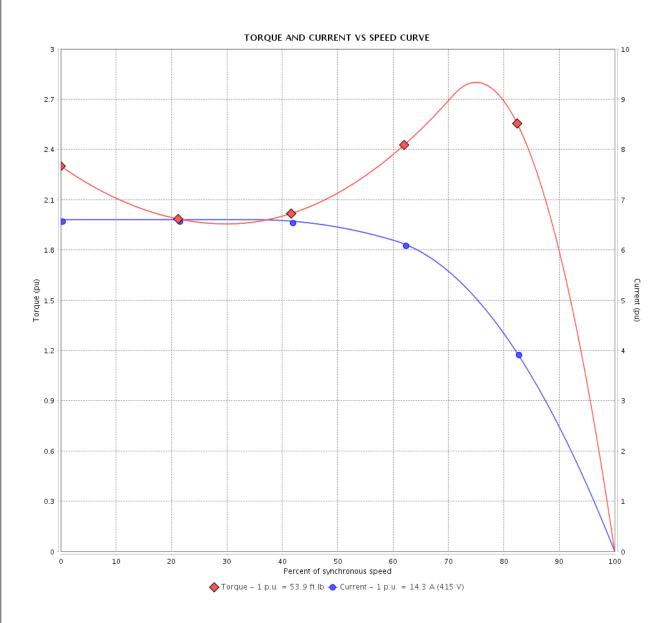
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483182

Catalog #: 01012OT3E256JM-W40



Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 14.3 A	Moment of inertia (J)	: 3.53 sq.ft.lb	
LRC	: 6.6	Duty cycle	: Cont.(S1)	
Rated torque	: 53.9 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 975 rpm	Design	: B	
Locked rotor time	: 25s (cold) 14s (hot)			

Locked folor tilli	. 2	05 (COId) 145 (110t)			
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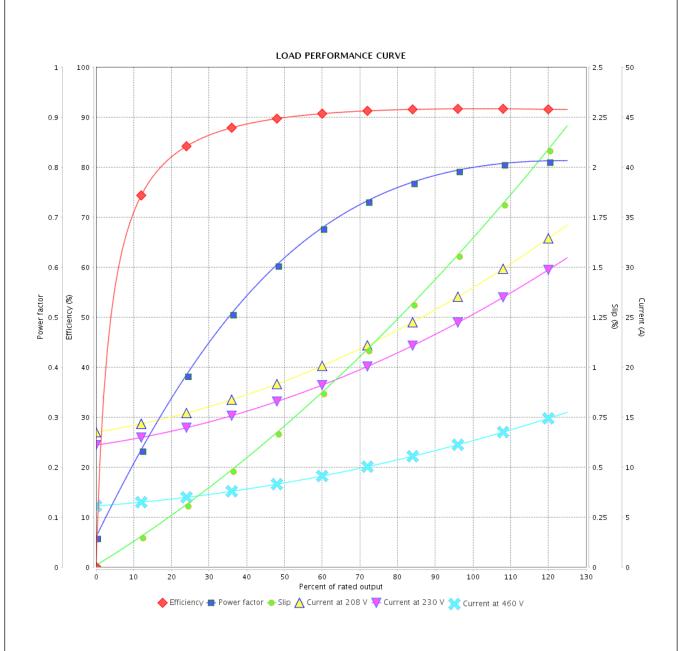
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Efficiency Three-Phase

Product code: 14483182

Catalog #: 01012OT3E256JM-W40

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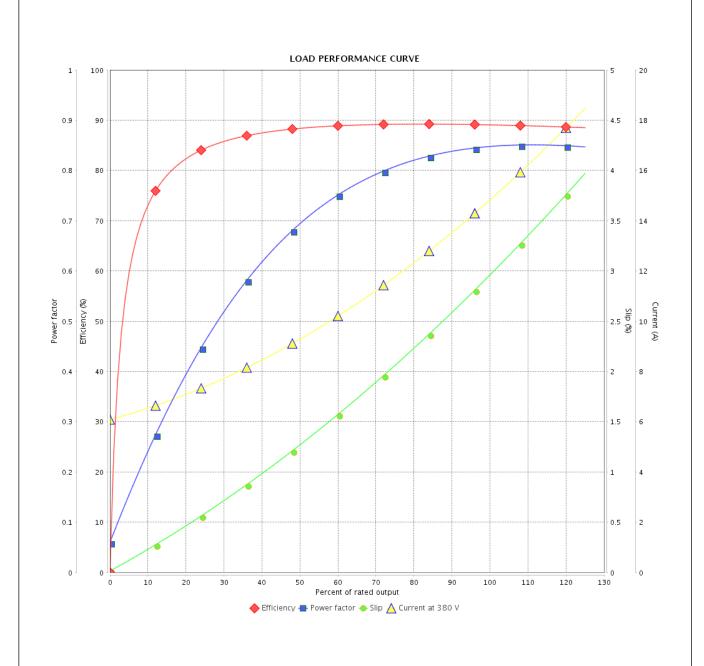
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483182

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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.0 A : 5.9 : 54.1 ft.lb : 190 % : 229 % : 970 rpm	` '		: 1.00 : 80 K	
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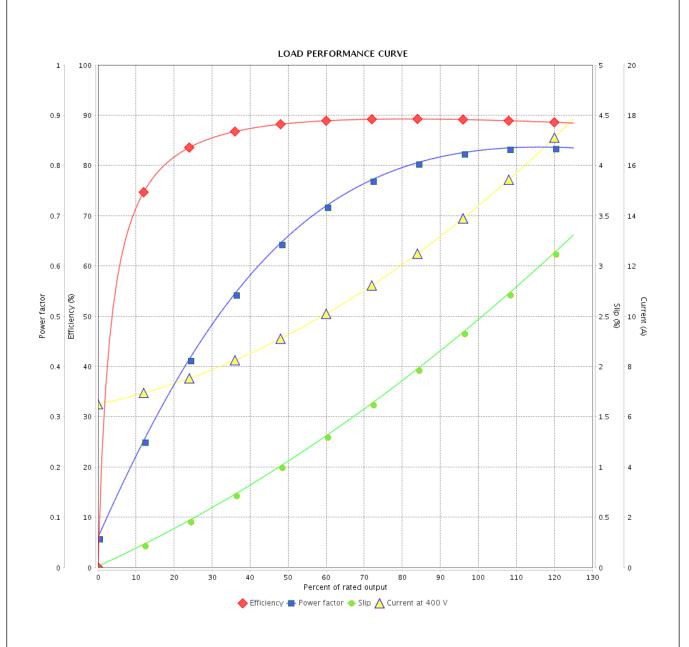
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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.6 A : 6.4 : 53.9 ft.lb : 210 % : 260 % : 975 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ector	: 3.53 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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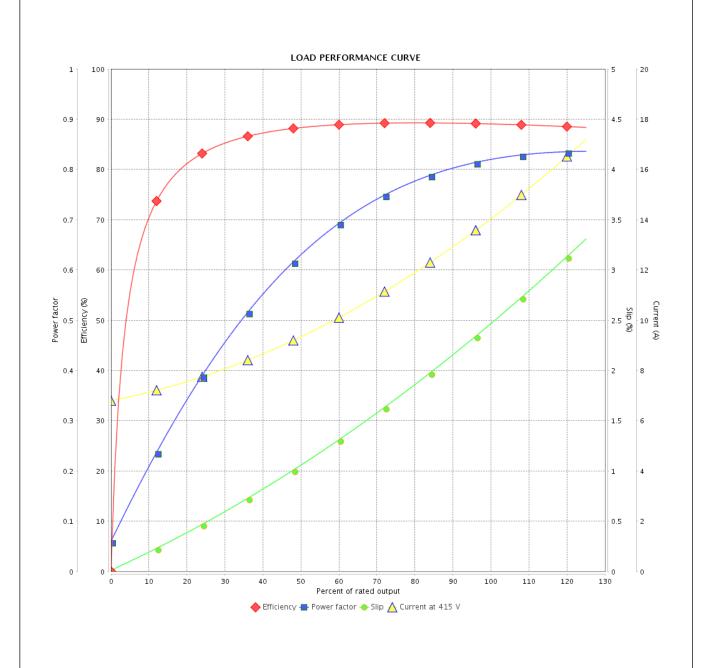
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483182

Catalog #: 01012OT3E256JM-W40



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	Rated current : 14.3 A		Moment o	f inertia (J)	: 3.53 sq.ft.lb	
LRC	: 6	.6	Duty cycle	;	: Cont.(S1)	
Rated torque :		3.9 ft.lb			: F	
Locked rotor torque		29 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	80 %	Temperature rise		: 80 K	
Rated speed	: 9	75 rpm	Design		: B	
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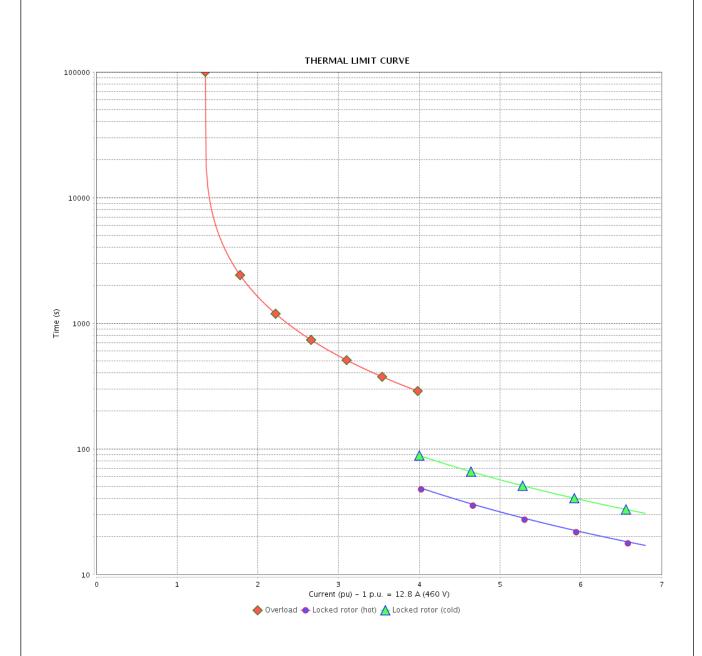


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Product line	: \	N40 JM Pump NEMA Prem	ium F	Product code :	14483182	
		Efficiency Three-Phase		Catalog # :	01012OT3E2	56JM-W40
Performance		30/460 V 60 Hz 6P				
Rated current LRC	: 25 : 6.	5.6/12.8 A 8	Moment of Duty cycle	inertia (J)	: 3.53 sq.ft.lb : Cont.(S1)	
Rated torque	: 44	4.5 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		29 % 00 %	Service fac Temperatu		: 1.25 : 80 K	
Rated speed		180 rpm	Design	. 5 1100	: B	
Heating constant						
Cooling constant						
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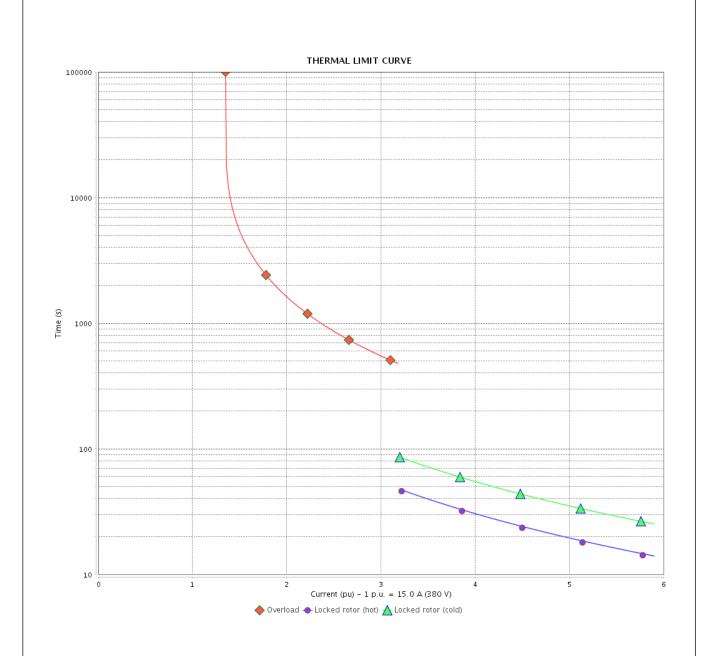


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Product line	: \ E1	W40 JM Pump NEMA Prem fficiency Three-Phase	ilum i	Product code :	14483182	
		•	(Catalog # :	01012OT3E2	56JM-W40
Performance	· 38	80 V 50 Hz 6P IE3				
Rated current	: 15	5.0 A	Moment of	f inertia (J)	: 3.53 sq.ft.lb	
LRC Rated torque	: 5.		Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torq	ue : 19	90 %	Service fac	ctor	: 1.00	
Breakdown torque Rated speed	ie : 22	29 % 70 rpm	Temperatu Design	re rise	: 80 K : B	
		, o .pm				
Heating constant Cooling constant						
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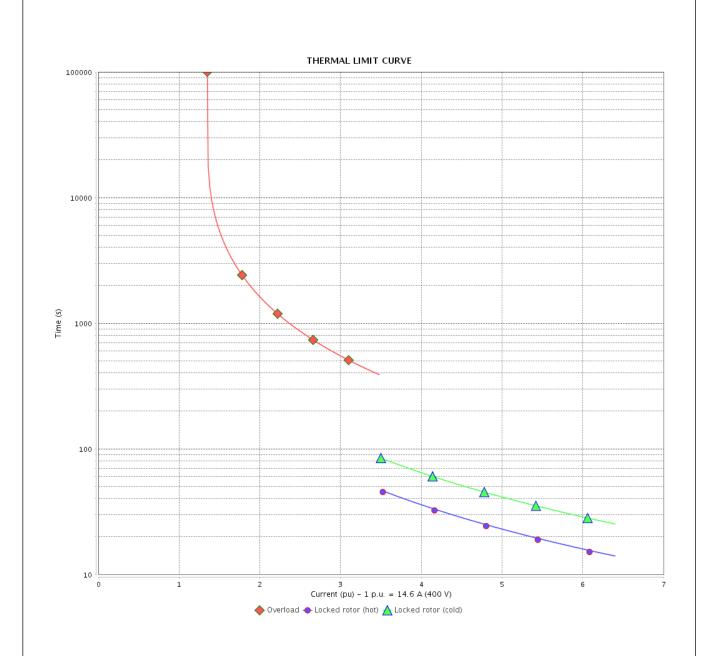


					
Customer	:				
Product line	: W40 JM Pump NEMA Prem Efficiency Three-Phase		Product code :	14483182	
		(Catalog # :	01012OT3E2	256JM-W40
Performance	: 400 V 50 Hz 6P IE3				
LRC Rated torque Locked rotor torque Breakdown torque	: 14.6 A : 6.4 : 53.9 ft.lb : 210 % : 260 % : 975 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class	: 3.53 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
	•				
Heating constant					
Cooling constant	Changes Commercial		Dorforms!	Charles -	Data
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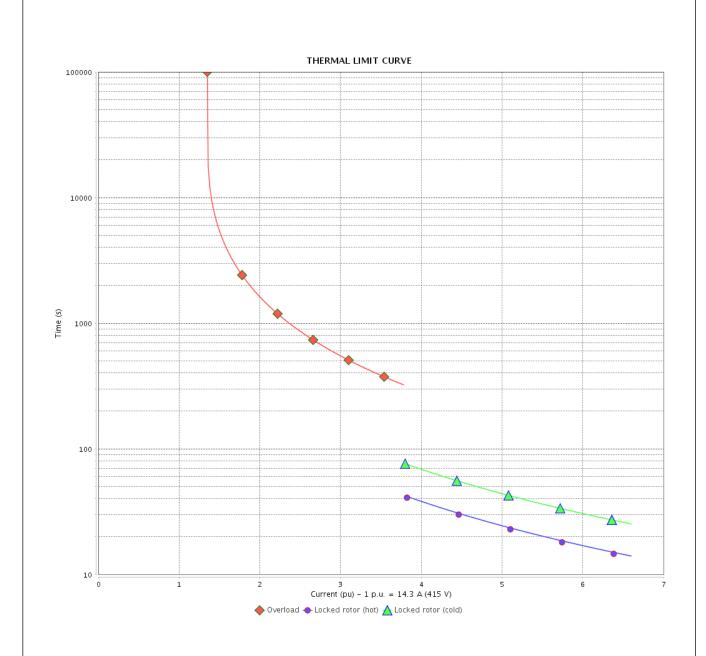


Customer	:					
Product line	: \	W40 JM Pump NEMA Prem	nium l	Product code :	14483182	
	E	fficiency Three-Phase	(Catalog # :	01012OT3E2	56JM-W40
Performance		15 V 50 Hz 6P IE3 4.3 A	Mamont of	Finantia (I)	. 2 52 og filb	
Rated current LRC	: 6.	6	Moment of Duty cycle		: 3.53 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torc		3.9 ft.lb 29 %	Insulation Service fac	class	: F : 1.00	
Breakdown torqu	ie : 28	30 %	Temperatu		: 80 K	
Rated speed	: 97	75 rpm	Design		: B	
Heating constant						
Cooling constant Rev.	:	Changes Summers	Ι	Performed	Checked	Date
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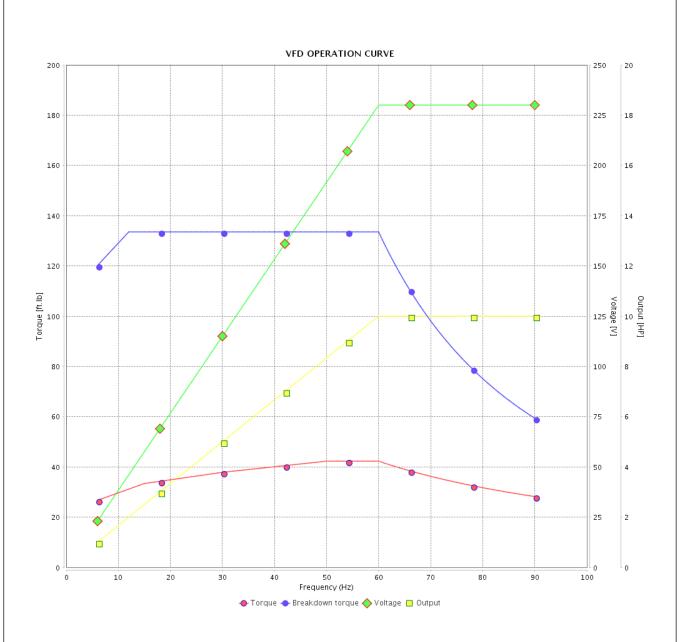
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483182

Catalog #: 01012OT3E256JM-W40



Performance	: 2	30/460 V 60 Hz 6P				
Rated current :		5.6/12.8 A	Moment of	Moment of inertia (J)		
LRC : 6.8		Duty cycle	•	: Cont.(S1)		
1		Insulation	Insulation class : F			
Locked rotor torque : 229 %		29 %	Service fa	Service factor		
Breakdown torque : 300 % Temperatur		Temperature rise : 80 K				
Rated speed	: 1	180 rpm	Design		: B	
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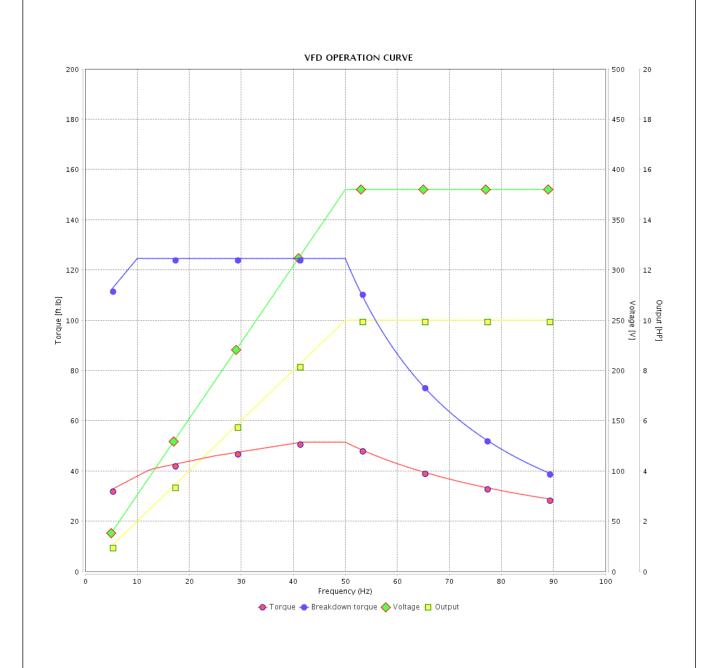
Customer

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Efficiency Three-Phase

Product code: 14483182

Catalog #: 01012OT3E256JM-W40



Performance	: 3	80 V 50 Hz 6P IE3				
Rated current	ed current : 15.0 A		Moment o	Moment of inertia (J)		
LRC	: 5	.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	4.1 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	90 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	29 %	Temperature rise		: 80 K	
Rated speed	: 9	70 rpm	Design		: B	
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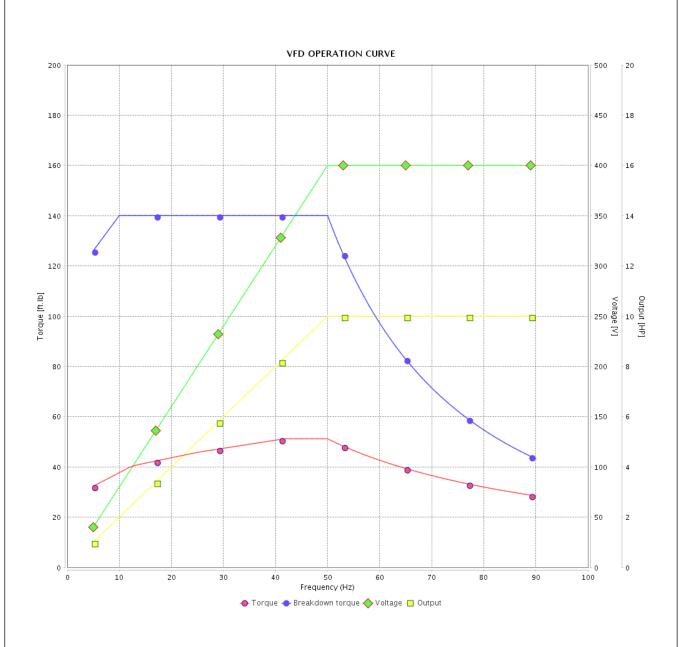
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Performance	:	: 400 V 50 Hz 6P I	E3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 14.6 A : 6.4 : 53.9 ft.lb : 210 % : 260 % : 975 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) : 3.53 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		
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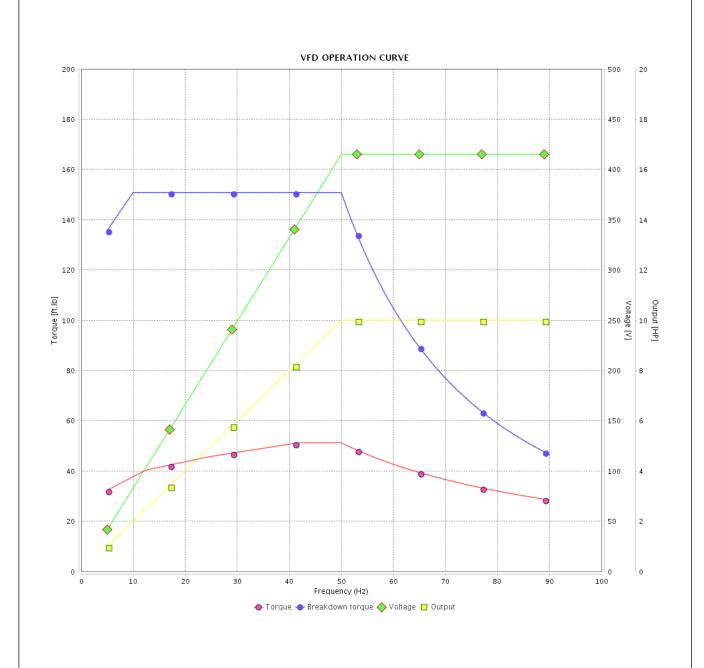
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14483182

Catalog #: 01012OT3E256JM-W40



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	d current : 14.3 A		Moment o	f inertia (J)	: 3.53 sq.ft.lb	
LRC	: 6	.6	Duty cycle)	: Cont.(S1)	
Rated torque	: 53	3.9 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2:	29 %	Service fa	ctor	: 1.00	
Breakdown torque	: 28	80 %	Temperature rise		: 80 K	
Rated speed	: 9	75 rpm	Design		: B	
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