DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Product line : JM Pump NEMA Premium Product code: 13173710 Efficiency Three-Phase

Catalog #: 00336OT3E145JM-SG Frame : 143/5JM Cooling method : IC01 - ODP Insulation class 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 : 42.0 lb Moment of inertia (J) Design : B : 0.1279 sq.ft.lb Output [HP] 3 3 Poles 2 2 2 50 Frequency [Hz] 60 50 220/415 Rated voltage [V] 230/460 190/380 Rated current [A] 7.18/3.59 8.78/4.39 7.83/4.15 L. R. Amperes [A] 57.4/28.7 53.6/26.8 53.2/28.2 LRC [A] 8.0x(Code J) 6.1x(Code G) 6.8x(Code H) No load current [A] 2.60/1.30 2.60/1.30 2.71/1.44 Rated speed [RPM] 3480 2825 2840 Slip [%] 3.33 5.83 5.33 Rated torque [ft.lb] 4.53 5.58 5.55 Locked rotor torque [%] 229 190 220 Breakdown torque [%] 300 229 250 Service factor 1.00 1.00 Temperature rise 80 K 105 K 105 K Locked rotor time 16s (cold) 9s (hot) 0s (cold) 0s (hot) 0s (cold) 0s (hot)

Noise level² 62.0 dB(A) 60.0 dB(A) 60.0 dB(A) 25% 83.7 89.4 88.4 50% 84.0 86.6 86.5 Efficiency (%) 75% 85.5 85.0 85.6 100% 85.5 83.2 81.8 25% 0.50 0.51 0.56 50% 0.76 0.79 0.83 Power Factor 75% 0.86 0.90 0.88 100% 0.90 0.92 0.93

Non drive end Foundation loads Drive end Bearing type 6206 ZZ 6203 ZZ : 99 lb Max. traction Sealing Without Without Max. compression : 142 lb

Bearing Seal

Bearing Seal

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 7.94A SF 1.00 SFA 7.94A

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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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

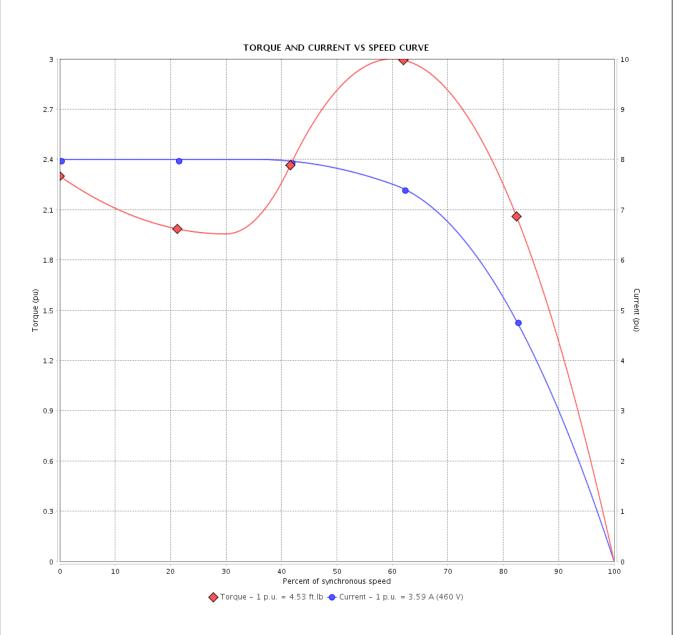


Customer :

Product line : JM Pump NEMA Premium Product code : 13173710

Efficiency Three-Phase

Catalog #: 00336OT3E145JM-SG



Performance : 230/460 V 60 Hz 2P Rated current : 7.18/3.59 A Moment of inertia (J) : 0.1279 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) : F : 4.53 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 229 % : 80 K Breakdown torque : 300 % Temperature rise Rated speed : 3480 rpm Design : B

Locked rotor time : 16s (cold) 9s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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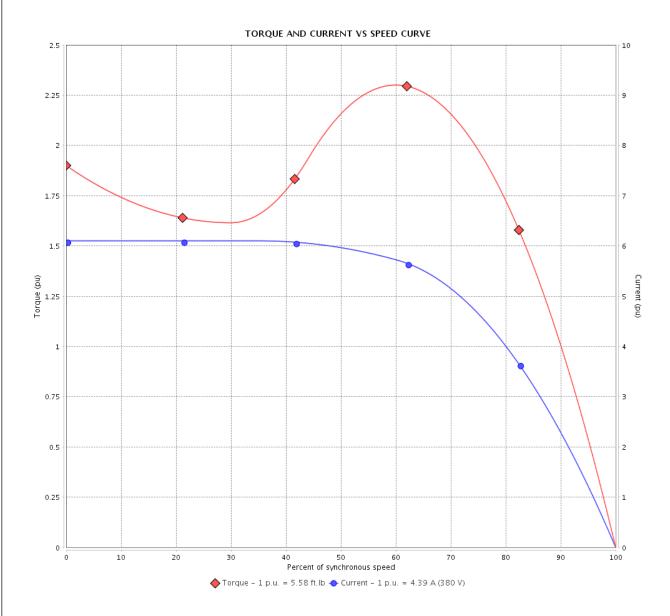


Customer :

Product line : JM Pump NEMA Premium Product code : 13173710

Efficiency Three-Phase

Catalog #: 00336OT3E145JM-SG



Performance	: 190/380 V 50 Hz 2P		
Rated current	: 8.78/4.39 A	Moment of inertia (J)	: 0.1279 sq.ft.lb
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 5.58 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 2825 rpm	Design	: B

Locked rotor time : 0s (cold) 0s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



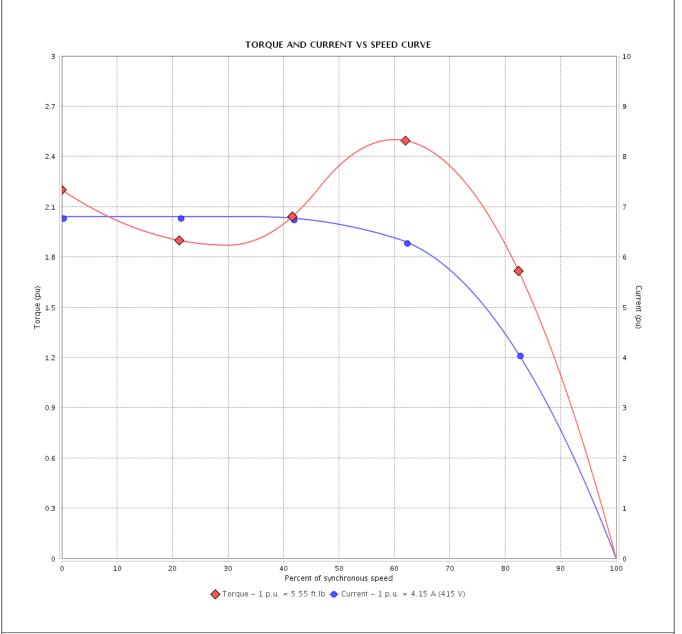
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13173710

Catalog #: 00336OT3E145JM-SG



Performance : 220/415 V 50 Hz 2P Rated current : 7.83/4.15 A Moment of inertia (J) : 0.1279 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 5.55 ft.lb : F Service factor Locked rotor torque : 220 % : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 2840 rpm Design : B Locked rotor time : 0s (cold) 0s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



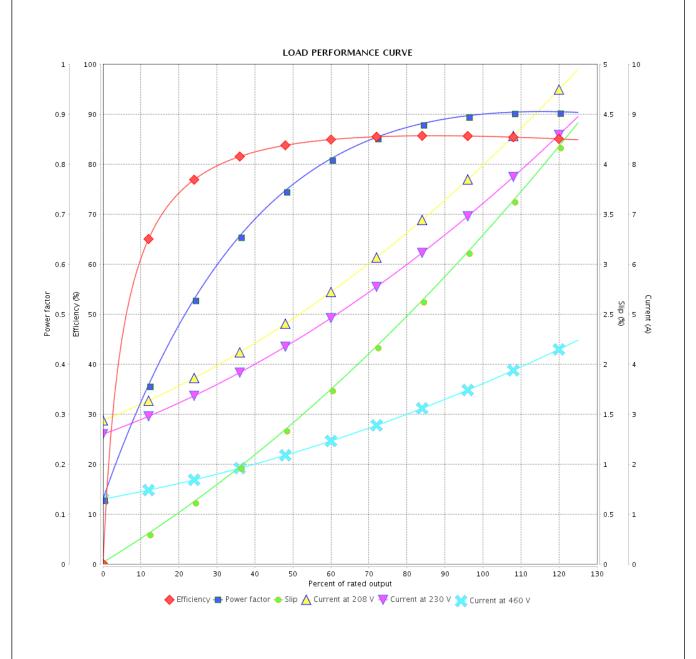
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13173710

Catalog #: 00336OT3E145JM-SG



Performance	Performance : 230/460 V 60 Hz 2P					
Rated current	:	7.18/3.59 A	Moment o	f inertia (J)	: 0.1279 sq.ft.	lb
LRC	: 8	3.0	Duty cycle)	: Cont.(S1)	
Rated torque	: 4	4.53 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	229 %	Service fa	ctor	:	
Breakdown torque	::	300 %	Temperature rise		: 80 K	
Rated speed	::	3480 rpm	Design		: B	
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LOAD PERFORMANCE CURVE

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Date

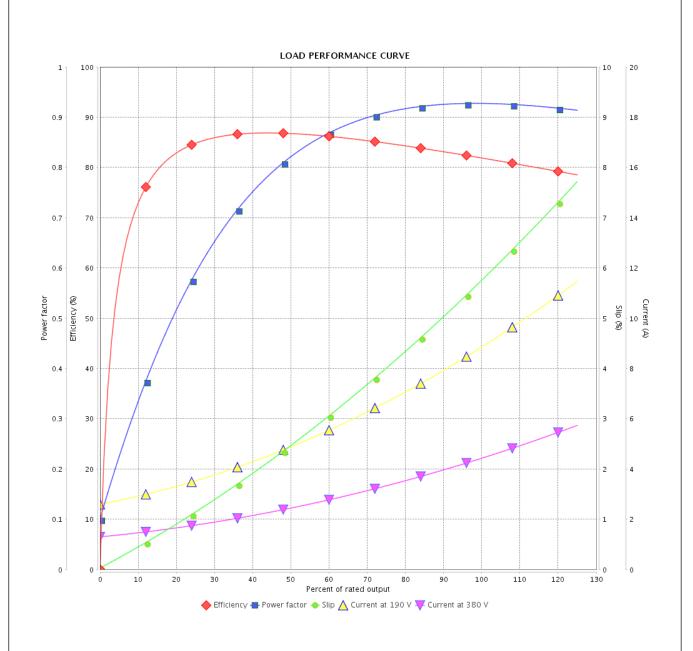
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13173710

Catalog #: 00336OT3E145JM-SG



Performance : 190/380 V 50 Hz 2P Rated current : 8.78/4.39 A Moment of inertia (J) : 0.1279 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 Insulation class Rated torque : 5.58 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 2825 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Page Revision

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Three Phase Induction Motor - Squirrel Cage



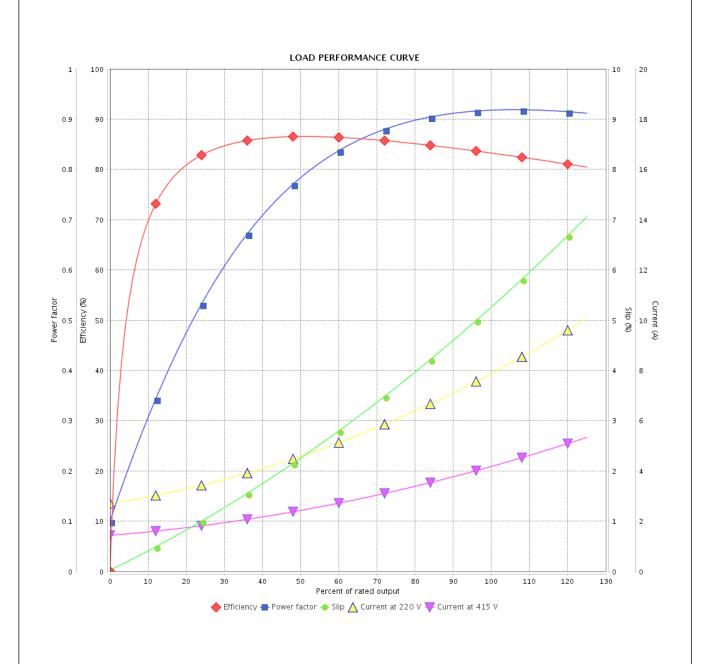
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13173710

Catalog #: 00336OT3E145JM-SG



Performance	Performance : 220/415 V 50 Hz 2P					
Rated current	:	7.83/4.15 A	Moment o	f inertia (J)	: 0.1279 sq.ft	.lb
LRC	:	6.8	Duty cycle)	: Cont.(S1)	
Rated torque		5.55 ft.lb	Insulation	class	: F	
Locked rotor torque		220 %	Service fa	ctor	: 1.00	
Breakdown torque	: : :	250 %	Temperati	Temperature rise		
Rated speed	:	2840 rpm	Design		: B	
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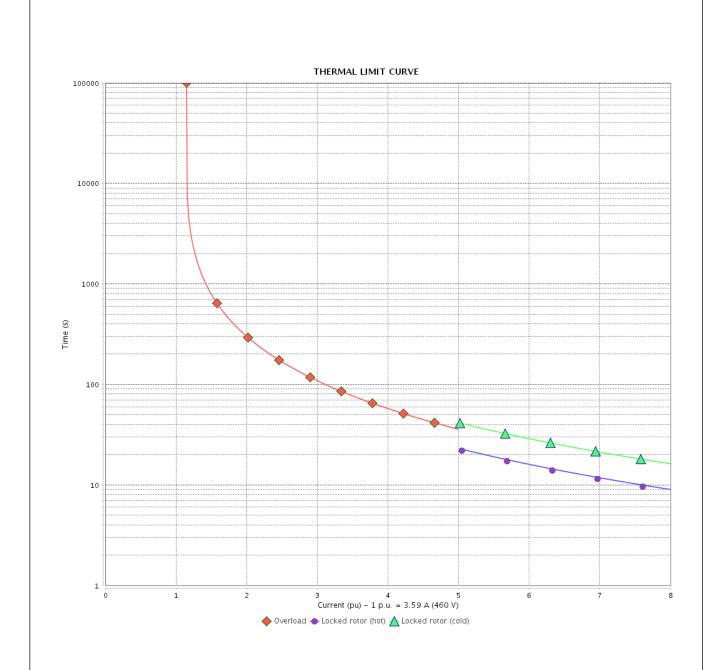


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Product line		: JM Pump NEMA Premium Efficiency Three-Phase	l	Product code :	13173710	
			(Catalog # :	00336OT3E	145JM-SG
Performance Rated current LRC Rated torque	: 1	230/460 V 60 Hz 2P 7.18/3.59 A 8.0 4.53 ft.lb	Duty cycle Insulation	class	: 0.1279 sq.ft. : Cont.(S1) : F	lb
Locked rotor torg Breakdown torgu Rated speed	ie ::	229 % 300 % 3480 rpm	Service fa Temperatu Design		: : 80 K : B	
Heating constant	<u> </u>					
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

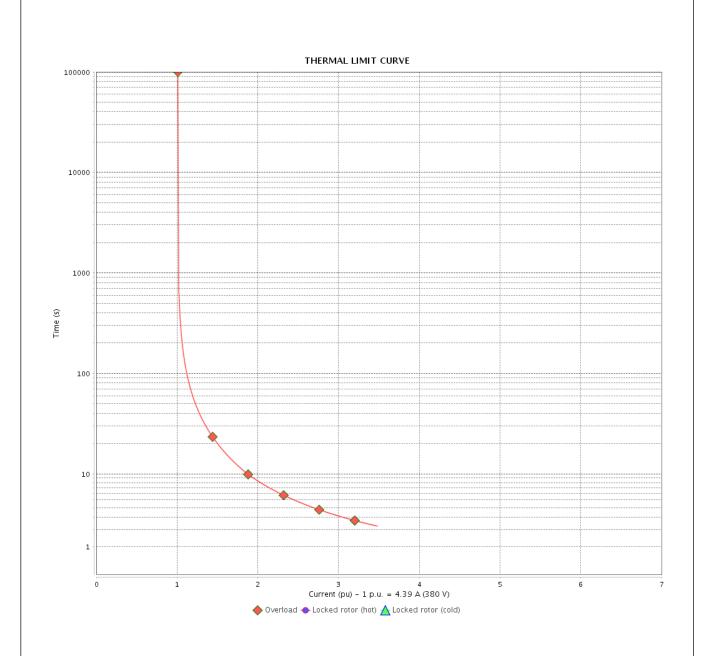


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Product line	:.	JM Pump NEMA Premium	I	Product code :	13173710	
	E	fficiency Three-Phase	(Catalog # :	00336OT3E1	45JM-SG
Performance		90/380 V 50 Hz 2P				
Rated current LRC	: 8. : 6.	78/4.39 A 1	Moment of Duty cycle	f inertia (J)	: 0.1279 sq.ft.l : Cont.(S1)	D
Rated torque	: 5.	58 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		90 % 29 %	Service far Temperatu		: 1.00 : 105 K	
Rated speed		325 rpm	Design		: B	
Heating constant						
Cooling constant			Т			
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Three Phase Induction Motor - Squirrel Cage



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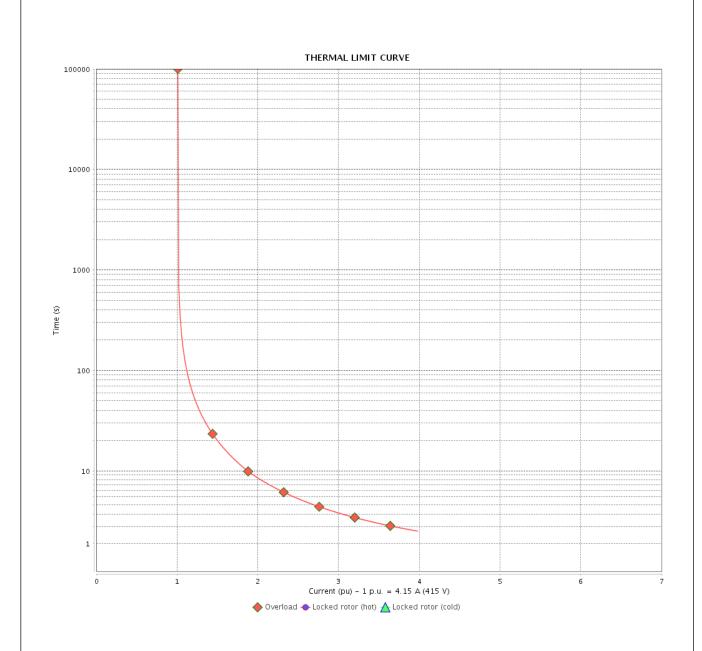


Customer	:				
Product line	: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13173710	
	Emoleticy Trifee-i flase		Catalog # :	00336OT3E	145JM-SG
Performance Rated current	: 220/415 V 50 Hz 2P : 7.83/4.15 A	Momento	f inertia (J)	· 0.1270 sq.ft.l	h
LRC	: 6.8	Duty cycle	;	: 0.1279 sq.ft.l : Cont.(S1)	b
Rated torque	: 5.55 ft.lb : 220 %	Insulation Service fa		: F : 1.00	
Locked rotor torque Breakdown torque	: 250 %	Temperati		: 1.00 : 105 K	
Rated speed	: 2840 rpm	Design		: B	
Heating constant					
Cooling constant					
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Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



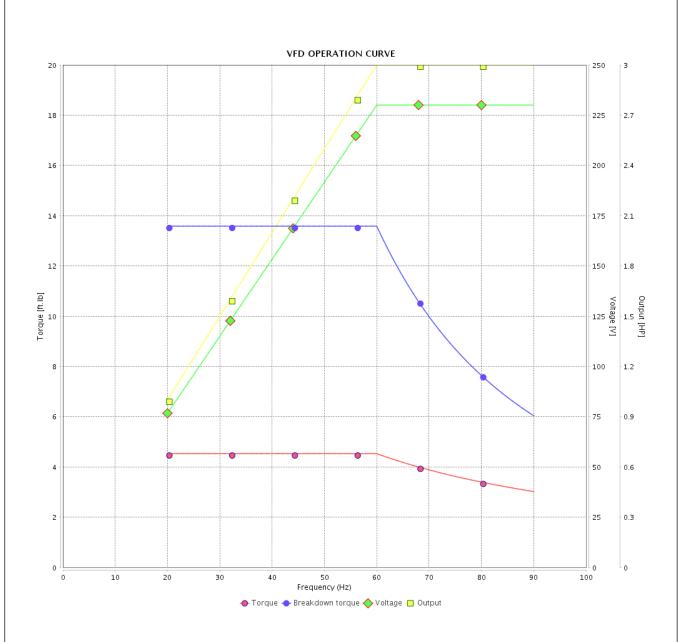
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13173710

Catalog #: 00336OT3E145JM-SG



D (000//001/ 001/ 00					
Performance	: 230/460 V 60 Hz 2P					
Rated current LRC	: 7.18/3.59 A : 8.0	Moment of inertia (J) Duty cycle		: 0.1279 sq.ft.lb : Cont.(S1)		
Rated torque	: 4.53 ft.lb	Insulation clas	Insulation class		: F	
Locked rotor torque Breakdown torque	: 229 % : 300 %	Service factor Temperature rise		: : 80 K		
Rated speed	: 3480 rpm	Design		: B		
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