DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium Product code : 13222907

Efficiency Three-Phase

Catalog #: 01036OT3E213JM-SG

Frame : 213/5JM 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 : 133 lb

Design : B Moment of inertia (J) : 0.4651 sq.ft.lb

Output [HP]		10	10	10
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		24.0/12.0	29.0/14.5 26.0/ 157/78.3 159/	
L. R. Amperes [A]		163/81.6		
LRC [A]		6.8x(Code H)	5.4x(Code F)	6.1x(Code G)
No load current [A]	9.32/4.66	9.15/4.58	9.58/5.08
Rated speed [RPN	/ 1]	3535	2910	2925
Slip [%]		1.81	3.00 2.5	
Rated torque [ft.lb]		14.9	18.0	18.0
Locked rotor torqu	e [%]	200	150	170
Breakdown torque	[%]	280	210	240
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		19s (cold) 11s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		66.0 dB(A)	64.0 dB(A)	64.0 dB(A)
	25%	88.3	91.2	90.6
Efficiency (%)	50%	88.5	89.4	89.3
Efficiency (%)	75%	89.5	88.6	89.0
	100%	89.5	86.5	87.4
	25%	0.47	0.53	0.49
Power Factor	50%	0.74	0.80	0.77
1 OWCI I actor	75%	0.84	0.88	0.86
	100%	60 50 230/460 190/380 24.0/12.0 29.0/14.5 163/81.6 157/78.3 6.8x(Code H) 5.4x(Code F) 9.32/4.66 9.15/4.58 3535 2910 1.81 3.00 14.9 18.0 200 150 280 210 1.15 1.15 80 K 80 K 19s (cold) 11s (hot) 0s (cold) 0s (hot) 66.0 dB(A) 64.0 dB(A) 88.3 91.2 88.5 89.4 89.5 88.6 89.5 86.5 0.47 0.53 0.74 0.80	0.91	0.90

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6209 ZZ 6206 ZZ Max. traction : 176 lb Sealing : Without Without Max. compression : 310 lb

Bearing Seal Bearing Seal

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 26.5A SF 1.00 SFA 26.5A

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



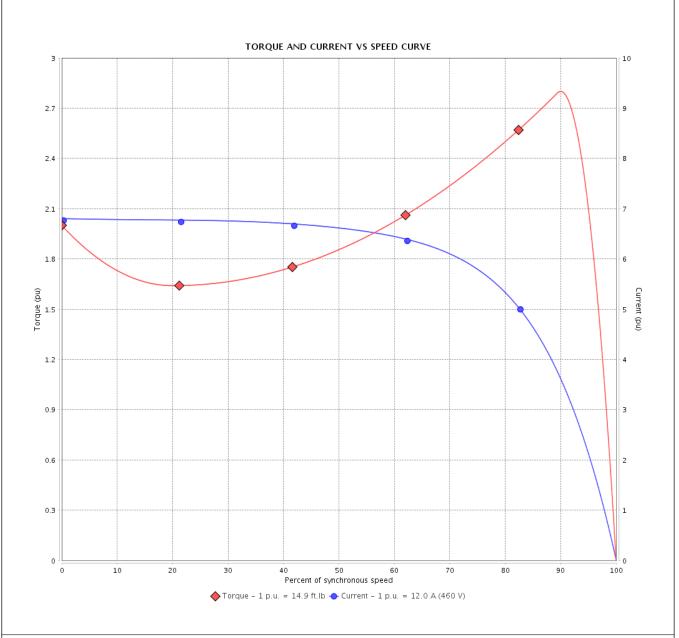
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13222907

Catalog #: 01036OT3E213JM-SG



Performance : 230/460 V 60 Hz 2P Rated current : 24.0/12.0 A Moment of inertia (J) : 0.4651 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : F : 14.9 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 200 % : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 3535 rpm Design : B

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

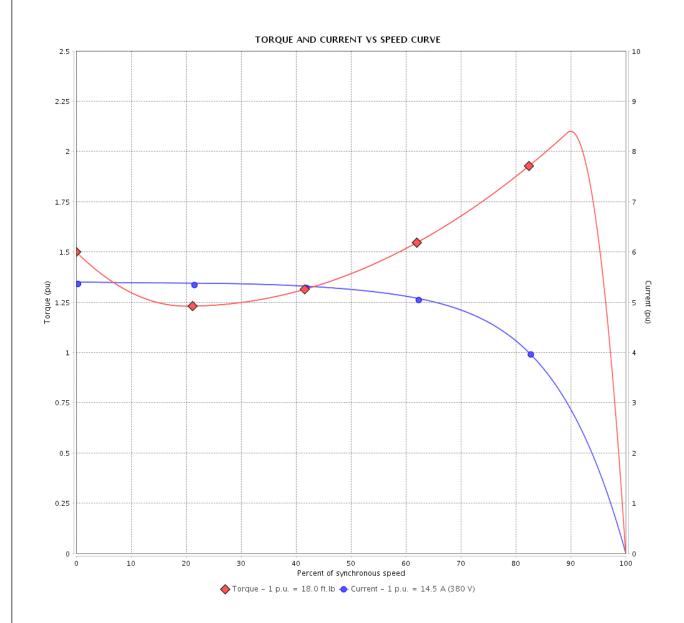
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JM Pump NEMA Premium Product code: 13222907 Efficiency Three-Phase Catalog #: 01036OT3E213JM-SG



Performance	: 190/380 V 50 Hz 2P		
Rated current	: 29.0/14.5 A	Moment of inertia (J)	: 0.4651 sq.ft.lb
LRC	: 5.4	Duty cycle	: Cont.(S1)
Rated torque	: 18.0 ft.lb	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.15
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 2910 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



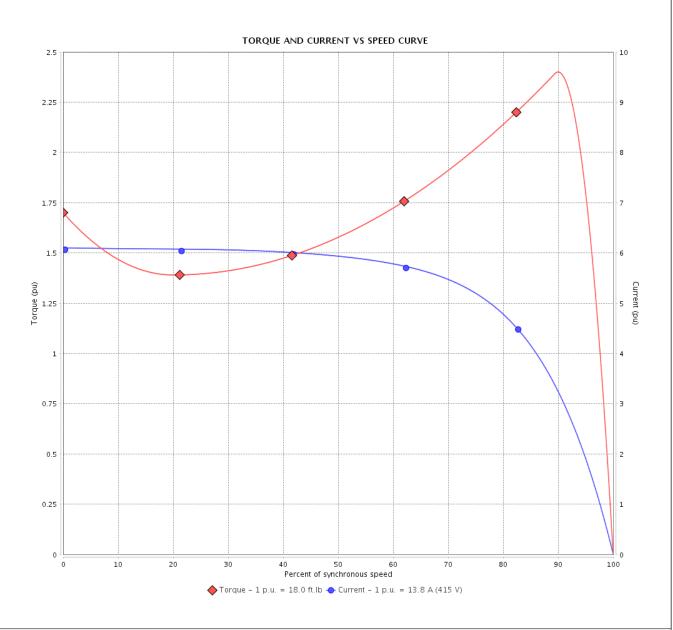
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13222907

Catalog #: 01036OT3E213JM-SG



Performance : 220/415 V 50 Hz 2P Rated current : 26.0/13.8 A Moment of inertia (J) : 0.4651 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 18.0 ft.lb Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2925 rpm Design : B

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

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LOAD PERFORMANCE CURVE

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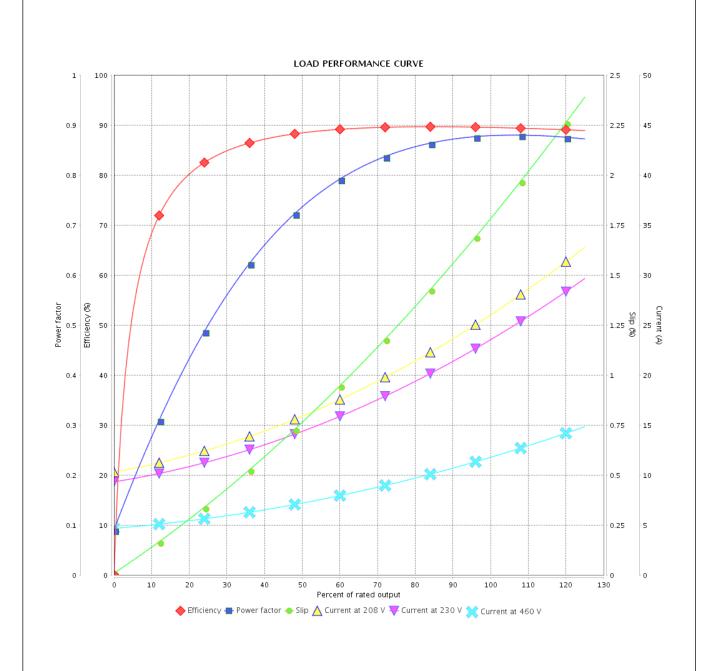
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13222907

Catalog #: 01036OT3E213JM-SG



Performance : 230/460 V 60 Hz 2P						
Rated current	: 2	24.0/12.0 A	Moment o	f inertia (J)	: 0.4651 sq.ft.lb	
LRC	: (3.8	Duty cycle	}	: Cont.(S1)	
Rated torque	: '	14.9 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	200 %	Service factor Temperature rise		: 1.15	
Breakdown torque	: 2	280 %			: 80 K	
Rated speed	: ;	: 3535 rpm Design		: B		
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LOAD PERFORMANCE CURVE

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Customer :

Date

12/04/2022

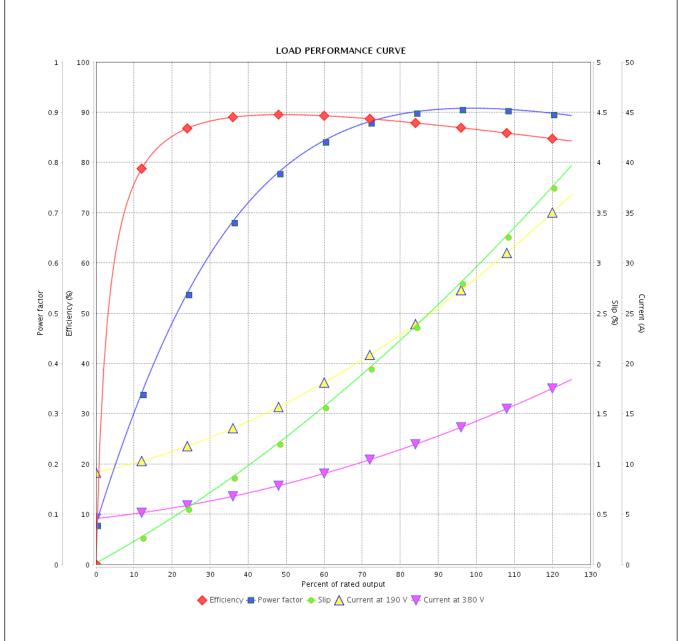
Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13222907

Catalog #: 01036OT3E213JM-SG

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Performance : 190/380 V 50 Hz 2P : 29.0/14.5 A Rated current Moment of inertia (J) : 0.4651 sq.ft.lb **LRC** : 5.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 18.0 ft.lb : F Locked rotor torque : 150 % Service factor : 1.15 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 2910 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



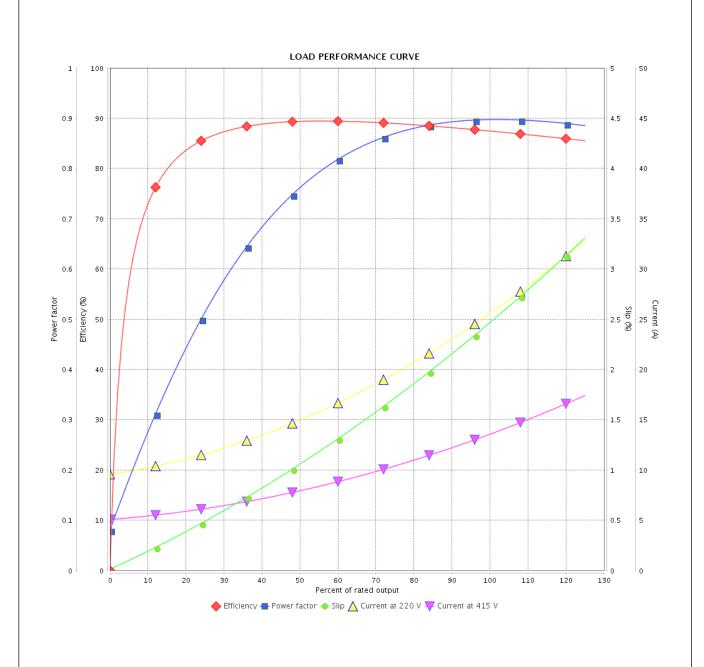
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13222907

Catalog #: 01036OT3E213JM-SG



Performance	: 2	20/415 V 50 Hz 2P				
Rated current	rent : 26.0/13.8 A Mome		Moment o	Moment of inertia (J)		.lb
LRC	: 6	.1	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	8.0 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	70 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	40 %	Temperature rise		: 80 K	
Rated speed	Rated speed : 2925 rpm		Design		: B	
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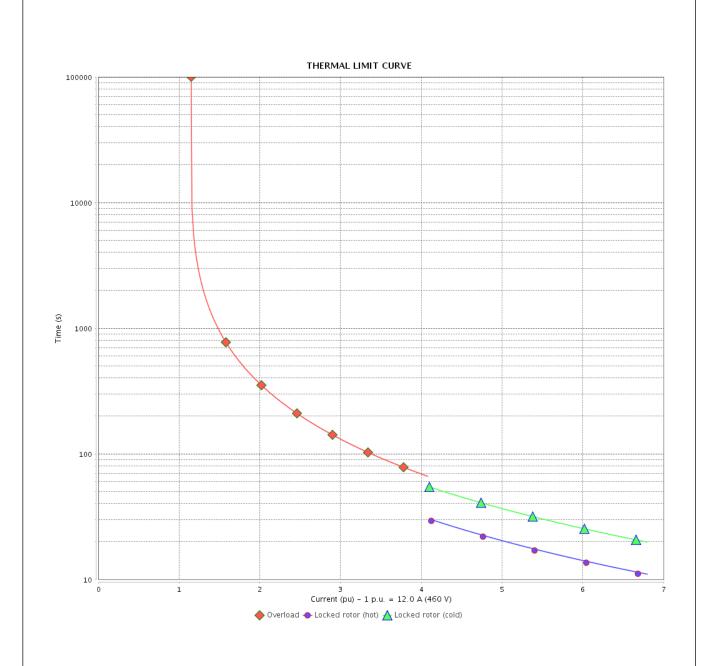


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Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13222907	
		,		Catalog # :	01036OT3E2	213JM-SG
Performance	:	230/460 V 60 Hz 2P				
Rated current		24.0/12.0 A	Moment o	of inertia (J)	: 0.4651 sq.ft.	b
LRC Rated torque		6.8 14.9 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torc	jue :	200 %	Service fa	ctor	: 1.15	
Breakdown torqu		280 %	Temperati	ure rise	: 80 K : B	
Rated speed		3535 rpm	Design		. D	
Heating constant						
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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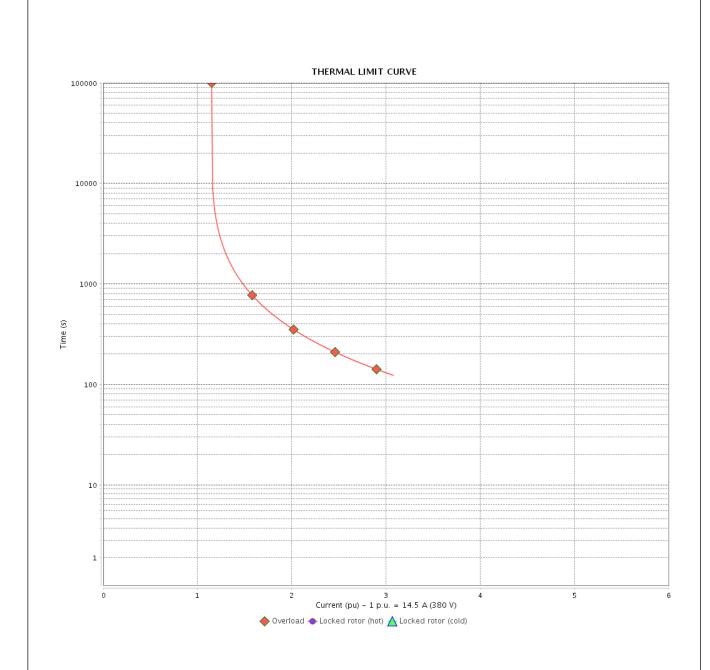


Customer	:			
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code : Catalog # :	13222907 01036OT3E	213.IM-SG
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Performance	: 190/380 V 50 Hz 2P	Marian Caracter (D	0.4054 8	<u> </u>
Rated current LRC	: 29.0/14.5 A : 5.4	Moment of inertia (J) Duty cycle	: 0.4651 sq.ft. : Cont.(S1)	מו
Rated torque	: 18.0 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque	: 150 % : 210 %	Service factor Temperature rise	: 1.15 : 80 K	
Rated speed	: 2910 rpm	Design	: B	
Heating constant				
Cooling constant				
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

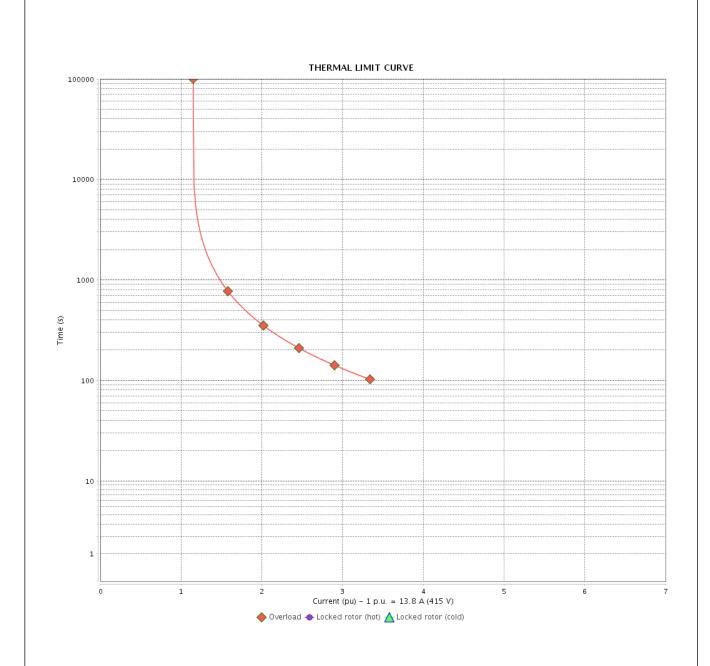


Customer		:				
Product line		: JM Pump NEMA Premium Efficiency Three-Phase	Product code :		13222907	
		Emoleticy Trifee Triage		Catalog # :	01036OT3E2	213JM-SG
Performance		220/415 V 50 Hz 2P		Charles (D)	0.4054 (1)	1.
Rated current LRC		26.0/13.8 A 6.1	Moment of Duty cycle	of inertia (J)	: 0.4651 sq.ft.l : Cont.(S1)	ט
Rated torque		18.0 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		170 % 240 %	Service fa Temperati		: 1.15 : 80 K	
Rated speed		2925 rpm	Design	5 5	: B	
Heating constant	t					
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



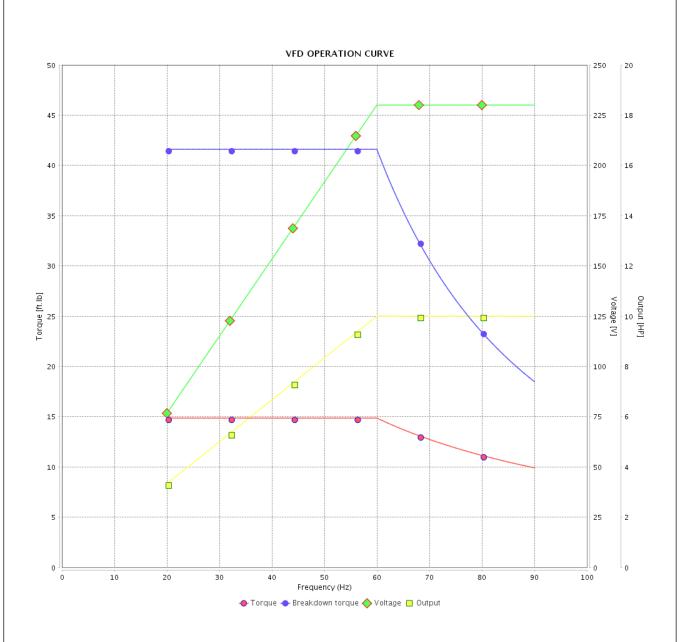
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13222907

Catalog #: 01036OT3E213JM-SG



Performance	: 230/460 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 24.0/12.0 A : 6.8 : 14.9 ft.lb : 200 % : 280 % : 3535 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4651 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
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