DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : JP Pump NEMA Premium Product code: 14329712

Efficiency Three-Phase

Catalog #: 00336ET3E182JP-SG

Frame : 182/4JP Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) : -20°C to +40°C Ambient temperature Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 63.5 lb

/ lititude		. 1000 111.4.5.1.	Approx. Weight	. 00.0 10
Protection degre	е	: IP55	Moment of inertia (J)	: 0.1564 sq.ft.lb
Design		: B		
Output [HP]		3	3	3
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		7.34/3.67	8.70/4.35	7.81/4.14
L. R. Amperes [A]		64.6/32.3	60.0/30.0	59.4/31.5
LRC [A]		8.8x(Code K)	6.9x(Code H)	7.6x(Code J)
No load current [A]	3.22/1.61	3.18/1.59	3.22/1.71
Rated speed [RPN	/ []	3515	2885	2900
Slip [%]		2.36	3.83	3.33
Rated torque [ft.lb]]	4.48	5.46	5.43
Locked rotor torqu	e [%]	220	180	210
Breakdown torque	[%]	300	280	310
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		39s (cold) 22s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
	25%	83.6	86.6	86.0
Efficiency (9/)	50%	84.0	85.9	85.7
Efficiency (%)	75%	86.5	86.5	86.8
	100%	86.5	85.3	86.1
	25%	0.44	0.50	0.46
Power Factor	50%	0.71	0.77	0.73
Fower Factor	75%	0.82	0.86	0.84
	100%	0.87	0.90	0.89

Non drive end Foundation loads Drive end

Bearing type 6207 ZZ 6205 ZZ Max. traction : 75 lb Sealing V'Ring V'Ring Max. compression : 139 lb

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes USABLE @208V 8.12A SF 1.00 SFA 8.12A

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



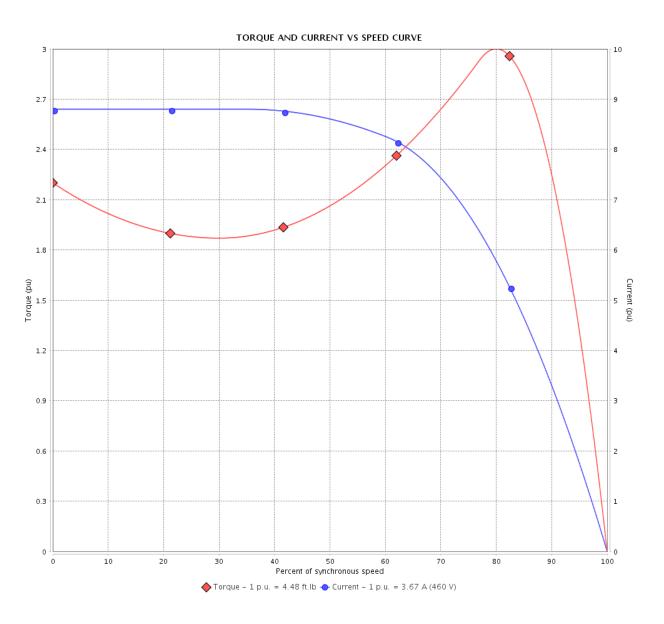
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14329712

Catalog #: 00336ET3E182JP-SG



Performance : 230/460 V 60 Hz 2P Rated current : 7.34/3.67 A Moment of inertia (J) : 0.1564 sq.ft.lb **LRC** : 8.8 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 4.48 ft.lb Service factor : 1.15 Locked rotor torque : 220 % Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3515 rpm Design : B

Locked rotor time : 39s (cold) 22s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



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Three Phase Induction Motor - Squirrel Cage Customer Product line : JP Pump NEMA Premium Product code: 14329712 Efficiency Three-Phase Catalog #: 00336ET3E182JP-SG TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 5.46 ft.lb ◆ Current - 1 p.u. = 4.35 A (380 V) Performance : 190/380 V 50 Hz 2P Rated current : 8.70/4.35 A Moment of inertia (J) : 0.1564 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 5.46 ft.lb : 180 % Locked rotor torque Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2885 rpm Design : B Locked rotor time : 0s (cold) 0s (hot) Date Rev. **Changes Summary** Performed Checked

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



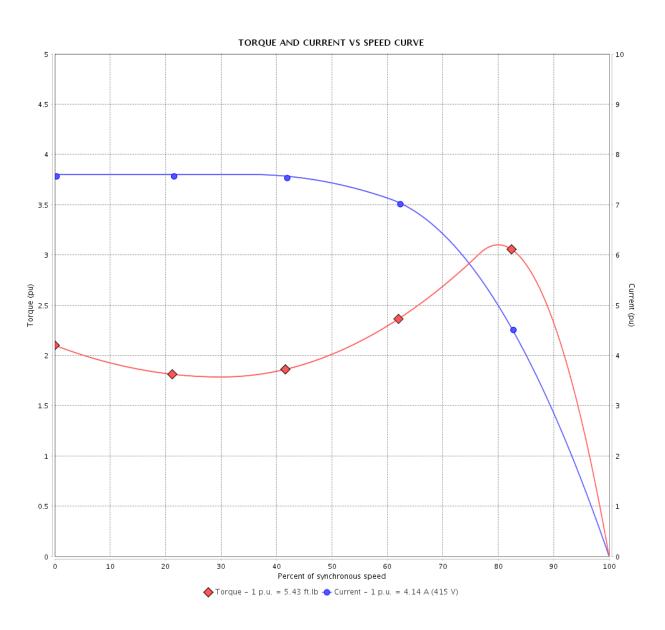
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14329712

Catalog #: 00336ET3E182JP-SG



Performance : 220/415 V 50 Hz 2P Rated current : 7.81/4.14 A Moment of inertia (J) : 0.1564 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : F : 5.43 ft.lb Insulation class Rated torque : 210 % Service factor Locked rotor torque : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B

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

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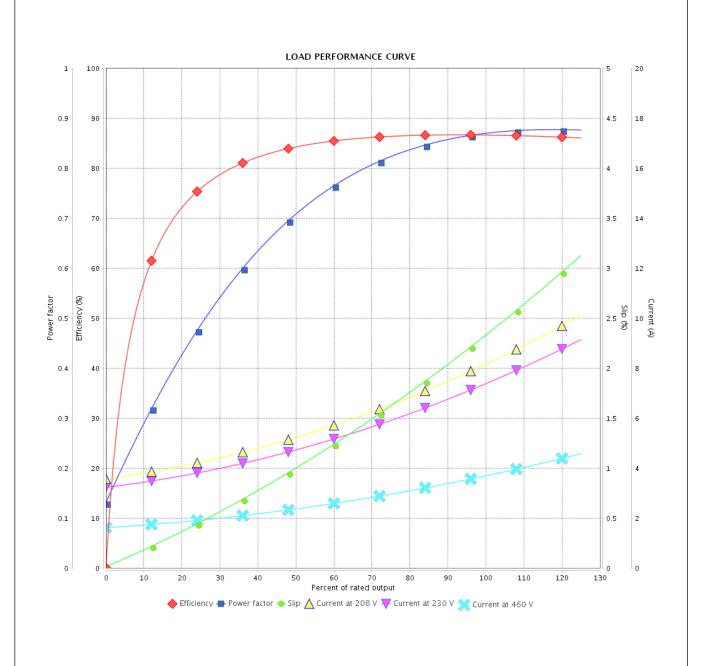
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14329712

Catalog #: 00336ET3E182JP-SG



Performance	: :	230/460 V 60 Hz 2P				
Rated current	:	7.34/3.67 A	Moment o	f inertia (J)	: 0.1564 sq.ft.	lb
LRC	: 8	3.8	Duty cycle	;	: Cont.(S1)	
Rated torque	: 4	4.48 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	220 %	Service fa	ctor	: 1.15	
Breakdown torque		300 %	Temperature rise		: 80 K	
Rated speed	::	3515 rpm	Design		: B	
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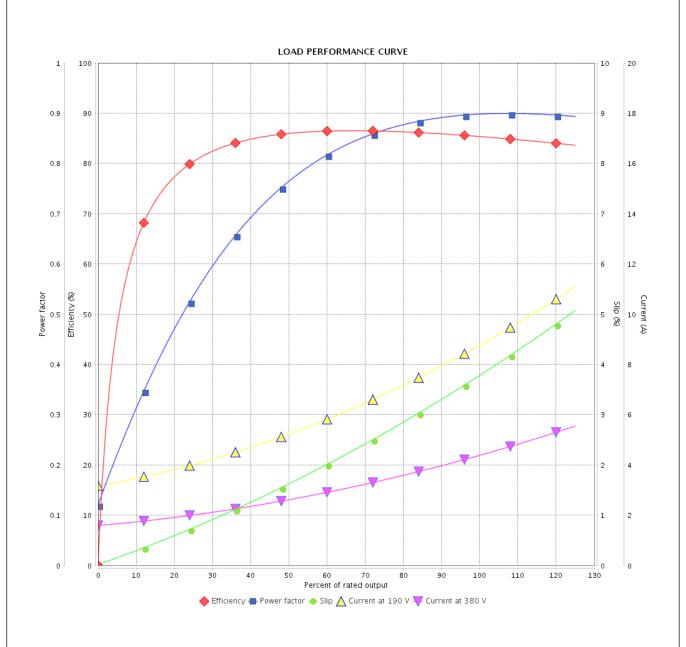
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14329712

Catalog #: 00336ET3E182JP-SG



Performance : 190/380 V 50 Hz 2P Rated current : 8.70/4.35 A Moment of inertia (J) : 0.1564 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : 5.46 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2885 rpm Design : B Rev. Performed Checked Date **Changes Summary**

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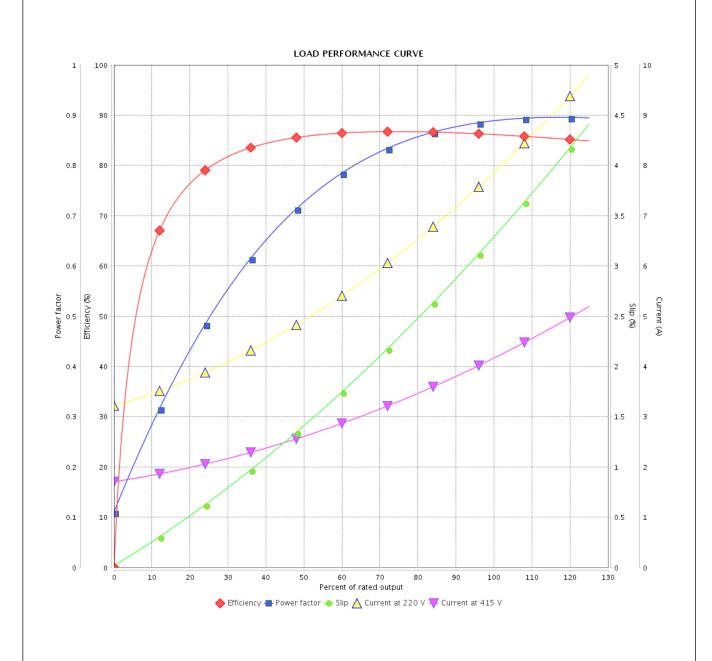
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14329712

Catalog #: 00336ET3E182JP-SG



Performance	Performance : 220/415 V 50 Hz 2P					
Rated current	Rated current : 7.81/4.14 A		Moment o	Moment of inertia (J)		.lb
LRC	: 7.	6	Duty cycle)	: Cont.(S1)	
Rated torque	: 5.	43 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 21	10 %	Service fa	ctor	: 1.15	
Breakdown torque : 310 %		Temperati	Temperature rise : 8			
Rated speed : 2900 rpn		900 rpm	Design : B		: B	
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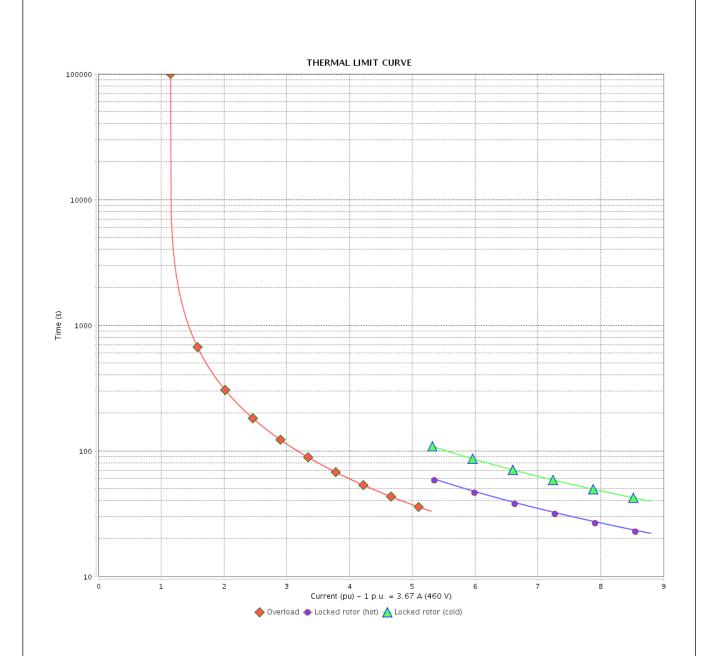


Customer	:					
Product line	:.	JP Pump NEMA Premium fficiency Three-Phase	I	Product code :	14329712	
	E			Catalog # :	00336ET3E1	82JP-SG
Performance		30/460 V 60 Hz 2P				
Rated current LRC	: 7. : 8.	34/3.67 A 8	Moment of Duty cycle	f inertia (J)	: 0.1564 sq.ft.l : Cont.(S1)	b
Rated torque	: 4.	48 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		20 % 00 %	Service far Temperatu		: 1.15 : 80 K	
Rated speed		515 rpm	Design		: B	
Heating constant						
Cooling constant		Changes O.	1	Dorf !	Ohl	D-t-
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Three Phase Induction Motor - Squirrel Cage



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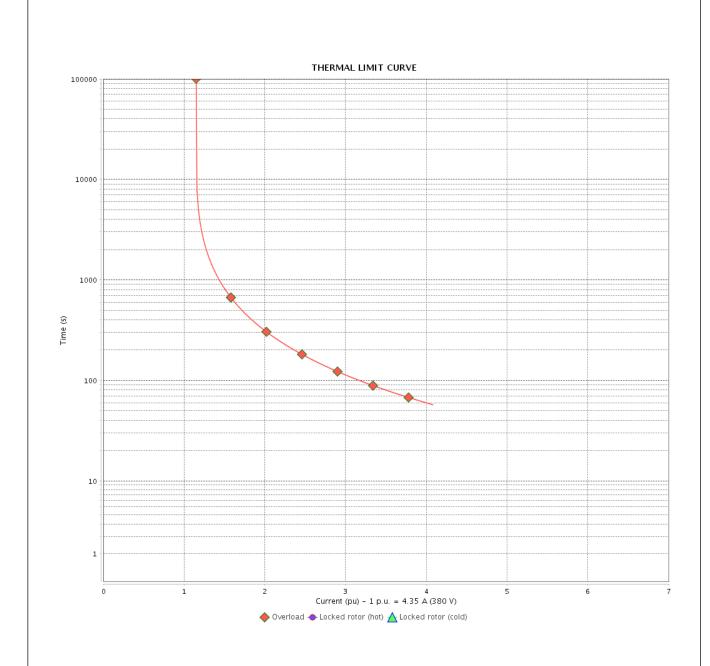


Customer	:					
Product line	:	JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14329712	
	'	Linciency Tillee-i Hase		Catalog # :	00336ET3E1	82JP-SG
Performance		190/380 V 50 Hz 2P				
Rated current		8.70/4.35 A	Moment o	of inertia (J)	: 0.1564 sq.ft.ll	b
LRC	: 6	6.9	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torc		5.46 ft.lb 180 %	Insulation Service fa		: F : 1.15	
Breakdown torqu		280 %	Temperati		: 80 K	
Rated speed		2885 rpm	Design		: B	
Heating constant	<u> </u>					
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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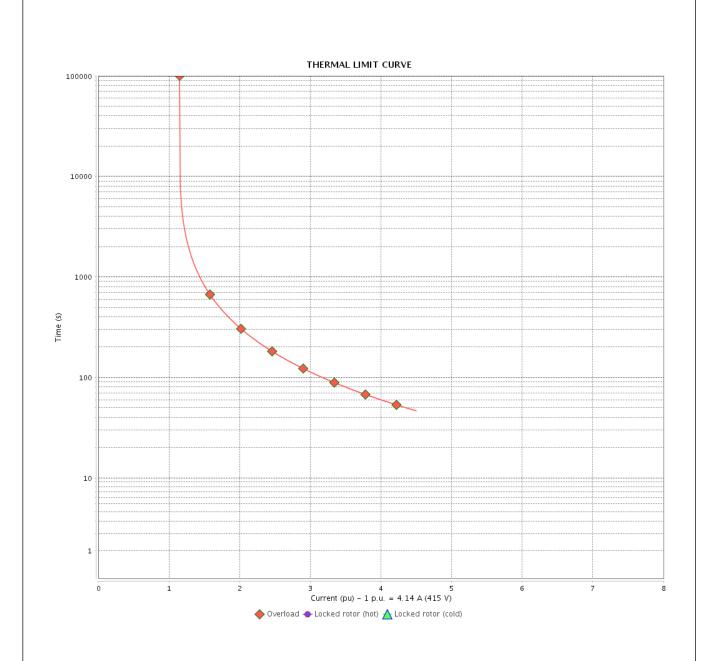


Customer	:				
Product line	: JP Pump NEMA Premium	1	Product code :	14329712	
	Efficiency Three-Phase				100 ID 00
			Catalog # :	00336ET3E	1023F-30
Performance	: 220/415 V 50 Hz 2P		5 : (1 ()	0.4504 %	
Rated current LRC	: 7.81/4.14 A : 7.6	Duty cycle	f inertia (J)	: 0.1564 sq.ft. : Cont.(S1)	ID
Rated torque	: 5.43 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 210 % : 310 %	Service fa Temperatu		: 1.15 : 80 K	
Rated speed	: 2900 rpm	Design		: B	
Heating constant					
Cooling constant					
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

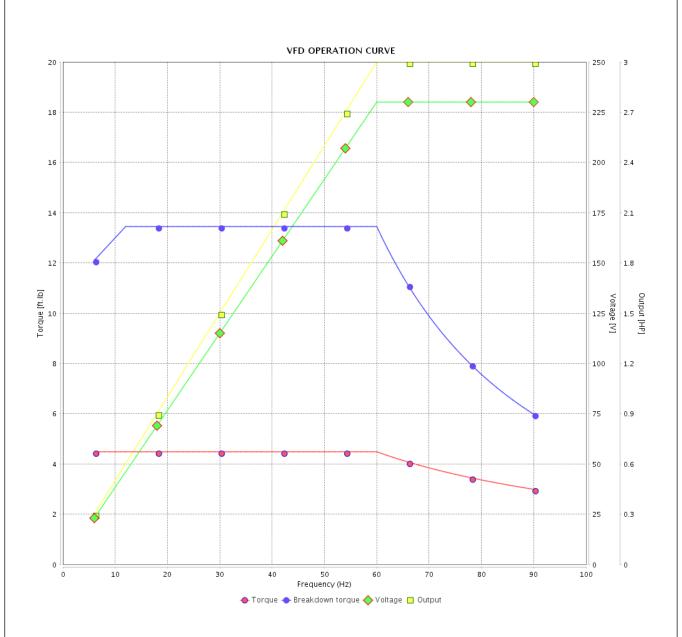
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Performance : 230/460 V 60 Hz 2P : 7.34/3.67 A Rated current Moment of inertia (J) : 0.1564 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.8 Insulation class Rated torque : 4.48 ft.lb : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3515 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

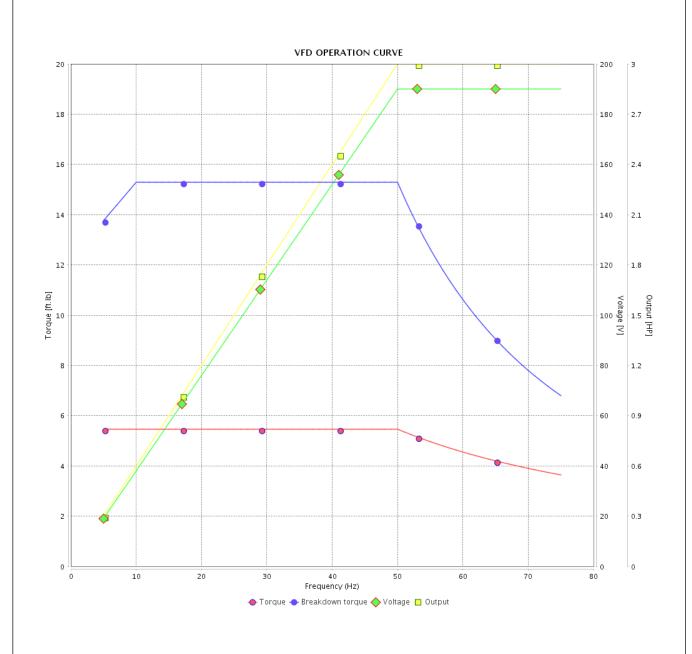
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Performance	<u> </u>	90/380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 5 uue : 1 e : 2	3.70/4.35 A 5.9 5.46 ft.lb 80 % 280 % 2885 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1564 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



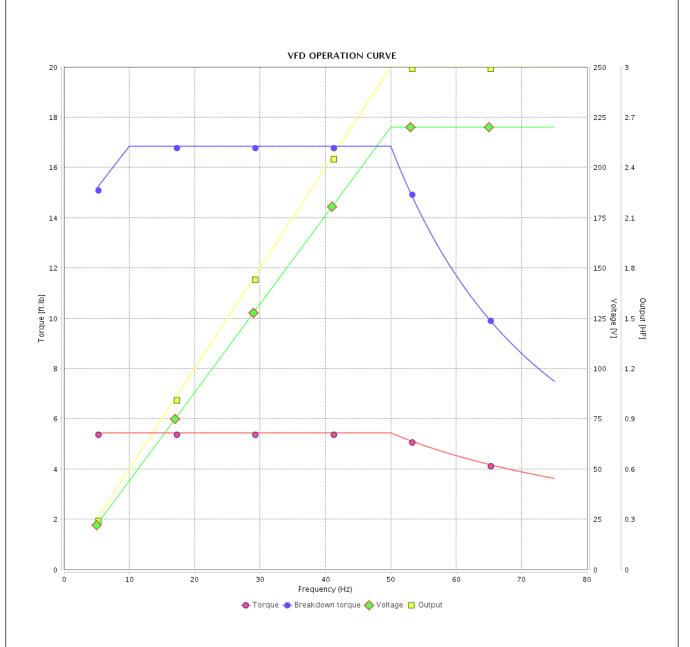
Customer :

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Efficiency Three-Phase

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Performance : 220/415 V 50 Hz 2P : 7.81/4.14 A Rated current Moment of inertia (J) : 0.1564 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.6 : 5.43 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B Rev. Performed Checked Date **Changes Summary**

