DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JP Pump NEMA Premium Product code : 14328034

Efficiency Three-Phase

Catalog # : 00152ET3E182JP-S

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

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 : 65.9 lb
Protection degree : IP55 Moment of inertia (J) : 0.2800 sq.ft.l

Protection degree		: IP55	Moment of inertia (J)	: 0.2800 sq.ft.lb
Design		: B		·
Output [HP]		1.5	1.5	1.5
Poles		6	6	6
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		4.44/2.22	5.18/2.59	4.73/2.51
L. R. Amperes [A]		30.6/15.3	29.5/14.8	29.8/15.8
LRC [A]		6.9x(Code K)	5.7x(Code H)	6.3x(Code J)
No load current [A	<u>\</u>]	2.73/1.36	2.69/1.34	2.74/1.46
Rated speed [RPN	/ 1]	1170	955	960
Slip [%]		2.50	4.50	4.00
Rated torque [ft.lb]	6.73	8.25	8.21
Locked rotor torqu	ıe [%]	240	190	220
Breakdown torque	[%]	340	260	290
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		99s (cold) 55s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		52.0 dB(A)	50.0 dB(A)	50.0 dB(A)
	25%	82.8	84.4	83.2
Efficiency (0/)	50%	84.0	84.2	83.5
Efficiency (%)	75%	86.5	85.6	85.5
	100%	87.5	84.9	85.4
	25%	0.29	0.34	0.31
Power Factor	50%	0.50	0.58	0.54
Fower Factor	75%	0.63	0.70	0.66
	100%	0.71	0.76	0.74

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

Bearing type : 6207 ZZ 6205 ZZ Max. traction : 119 lb Sealing : V'Ring Without Max. compression : 185 lb

Bearing Seal

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

Notes

USABLE @208V 4.91A SF 1.00 SFA 4.91A

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



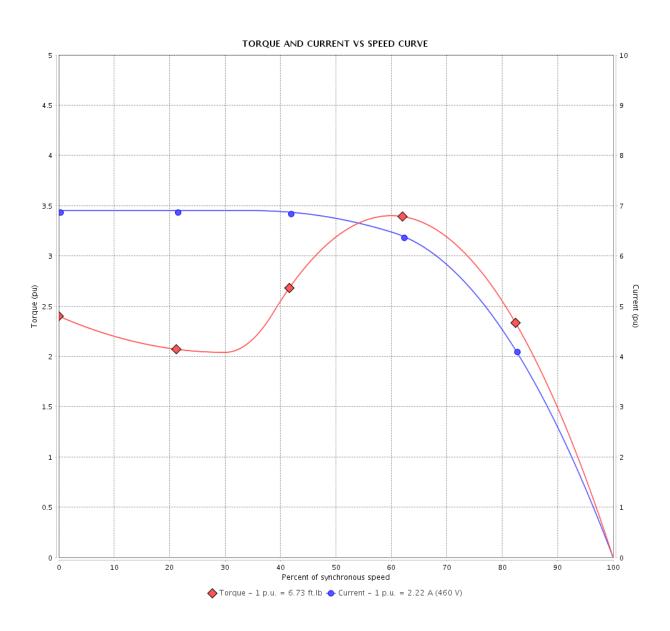
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14328034

Catalog #: 00152ET3E182JP-S



Performance : 230/460 V 60 Hz 6P Rated current : 4.44/2.22 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 6.73 ft.lb Service factor Locked rotor torque : 240 % : 1.15 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B

Locked rotor time : 99s (cold) 55s (hot)

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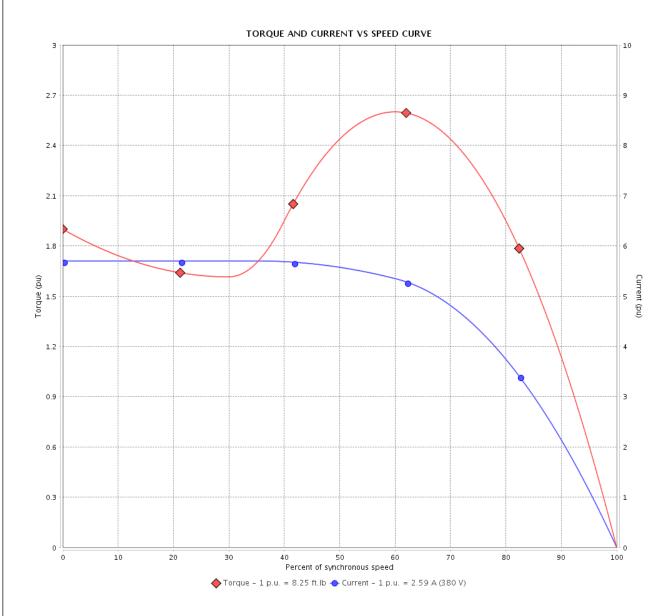


Customer :

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Performance : 190/380 V 50 Hz 6P Rated current : 5.18/2.59 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 8.25 ft.lb Insulation class : F Rated torque Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K : B Rated speed : 955 rpm Design

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

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TORQUE AND CURRENT VS SPEED CURVE

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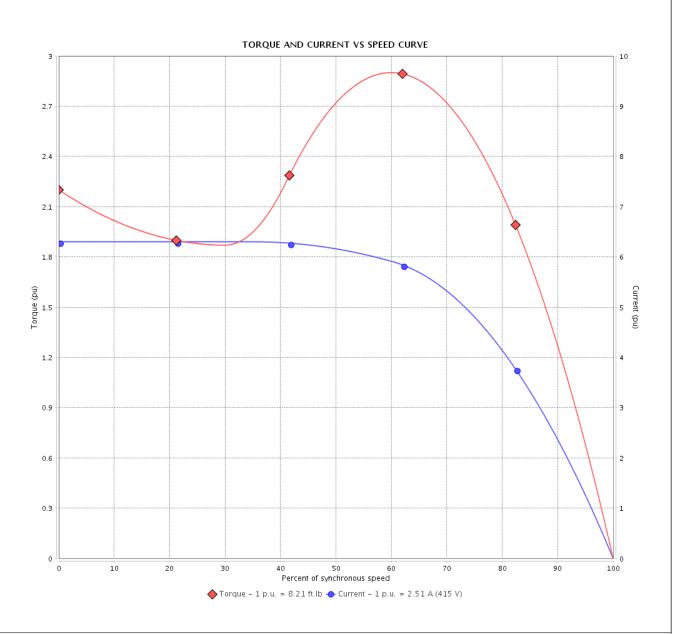
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Performance : 220/415 V 50 Hz 6P Rated current : 4.73/2.51 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 8.21 ft.lb Service factor : 1.15 Locked rotor torque : 220 % Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 960 rpm Design : B

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

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LOAD PERFORMANCE CURVE

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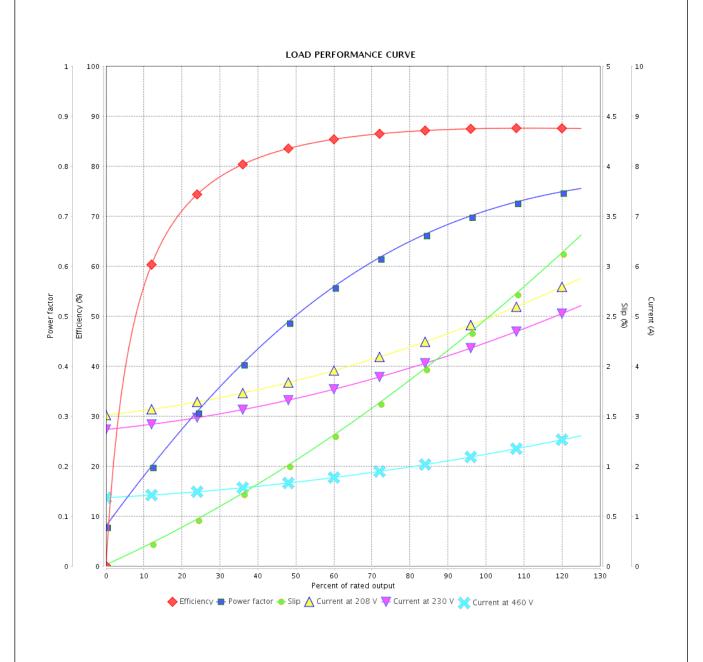
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Dorformana		220/460 V/ 60 H= 6D				
Performance		230/460 V 60 Hz 6P	T			
Rated current	:	4.44/2.22 A	Moment o	f inertia (J)	: 0.2800 sq.ft.	lb
LRC	:	6.9	Duty cycle)	: Cont.(S1)	
Rated torque	:	6.73 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	240 %	Service fa	ctor	: 1.15	
Breakdown torque		340 %	Temperature rise		: 80 K	
Rated speed	:	: 1170 rpm Design			: B	
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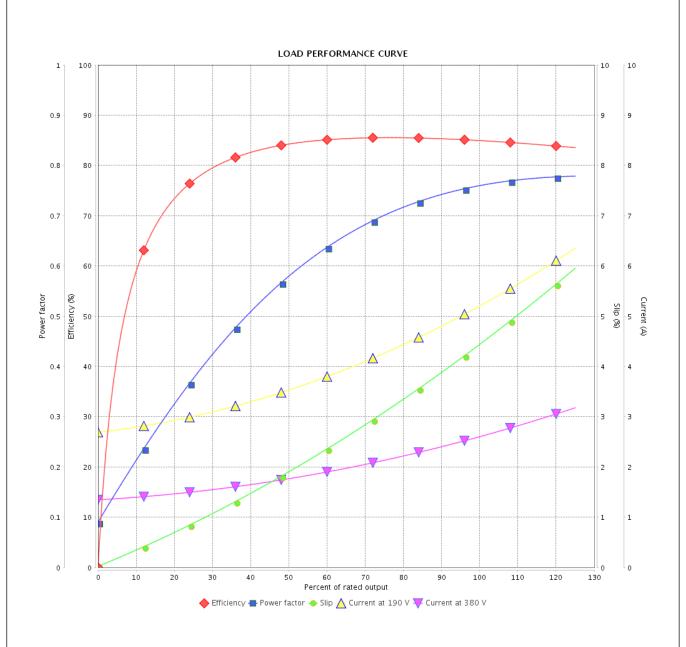
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Performance : 190/380 V 50 Hz 6P Rated current : 5.18/2.59 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.7 : 8.25 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 955 rpm Design : B

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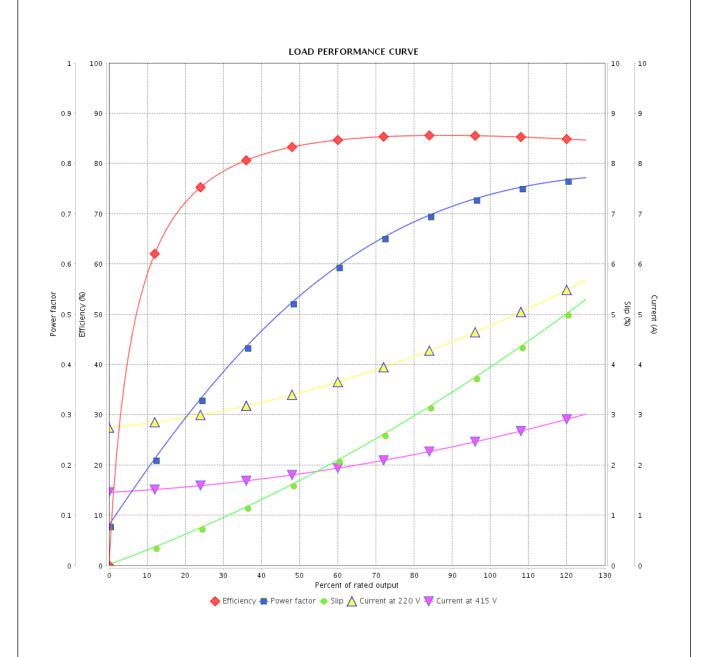
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

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Performance	: 2	20/415 V 50 Hz 6P				
LRC : 6. Rated torque : 8.		.73/2.51 A .3 .21 ft.lb 20 %	Moment of inertia (J) Duty cycle Insulation class Service factor		a (J) : 0.2800 sq.ft.lb : Cont.(S1) : F : 1.15	
Breakdown torqu Rated speed	ie : 2	90 % 60 rpm	Temperati Design		: 80 K : B	
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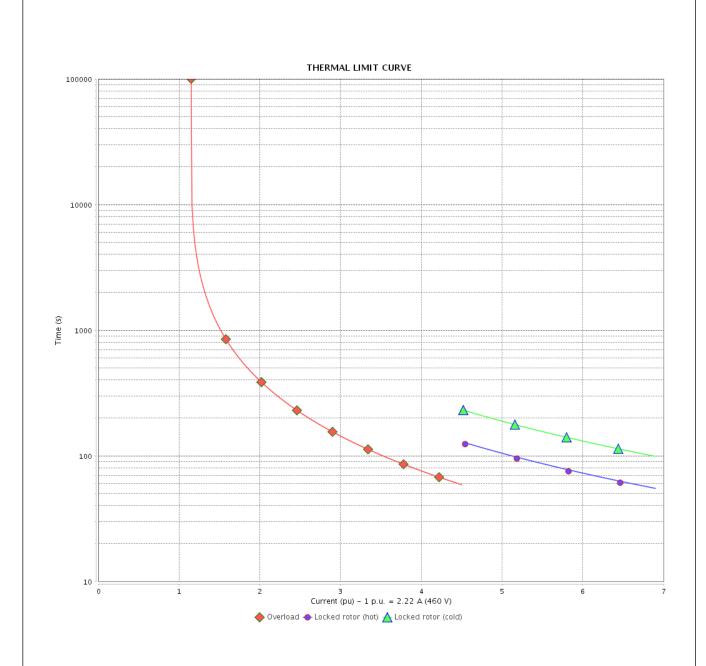


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Product line	: E	JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14328034	
				Catalog # :	00152ET3E1	82JP-S
Performance		230/460 V 60 Hz 6P				
Rated current LRC	: 4 : 6	.44/2.22 A	Moment o Duty cycle	f inertia (J)	: 0.2800 sq.ft.l : Cont.(S1)	b
Rated torque	: 6	5.73 ft.lb	Insulation	class	: F	
Locked rotor tord		40 %	Service fa		: 1.15	
Breakdown torqu Rated speed		40 % 170 rpm	Temperatu Design	ure rise	: 80 K : B	
Heating constan		·				
Cooling constant						
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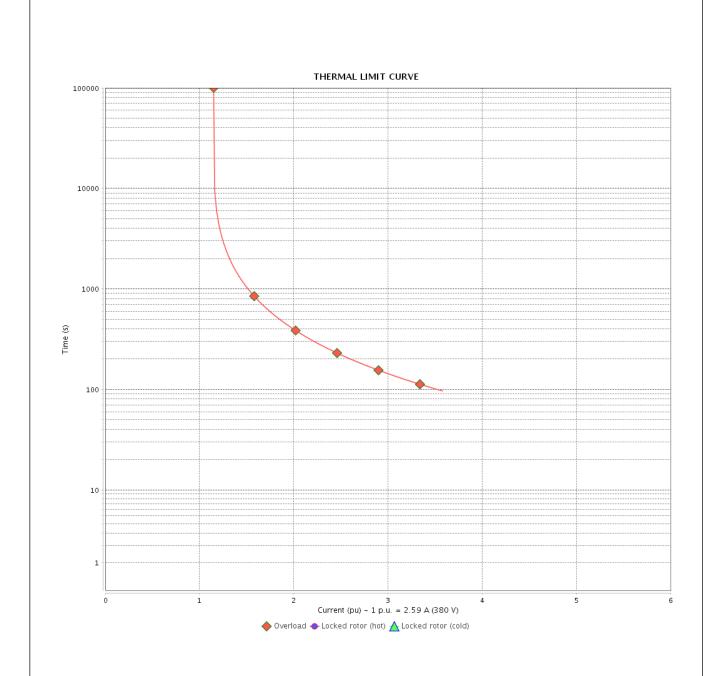


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Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14328034	
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Performance	:	190/380 V 50 Hz 6P				
Rated current		5.18/2.59 A	Moment o	of inertia (J)	: 0.2800 sq.ft.l	b
LRC Rated torque		5.7 8.25 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord		190 %	Service fa		: 1.15	
Breakdown torqu	ue :	260 %	Temperati	ure rise	: 80 K	
Rated speed		955 rpm	Design		: B	
Heating constan						
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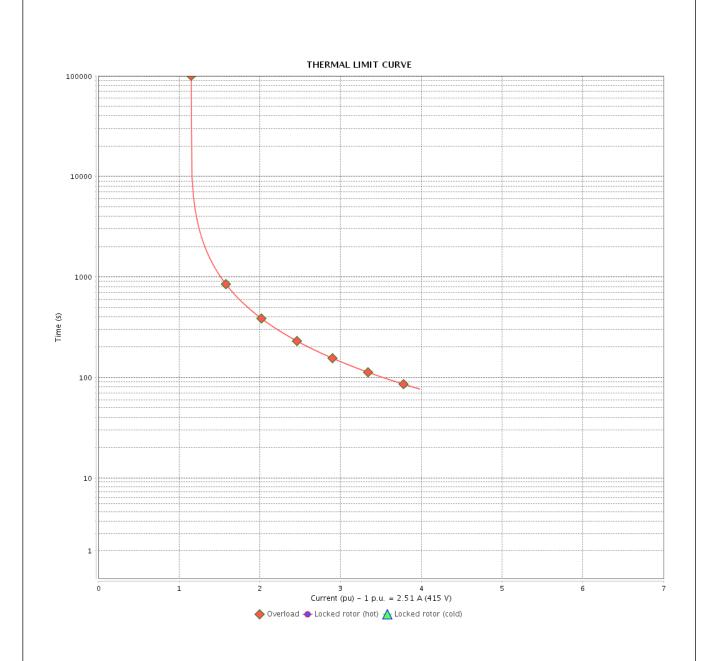


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Product line						
		JP Pump NEMA Premium Efficiency Three-Phase	ŀ	Product code :	14328034	
		,	(Catalog # :	00152ET3E1	82JP-S
Performance		220/415 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 4.73/2.51 A Moment of Duty cycl : 6.3 Duty cycl : 8.21 ft.lb Insulation : 220 % Service fa : 290 % Temperat : 960 rpm Design		n class : F actor : 1.15		
Heating constant						
Cooling constant		-				
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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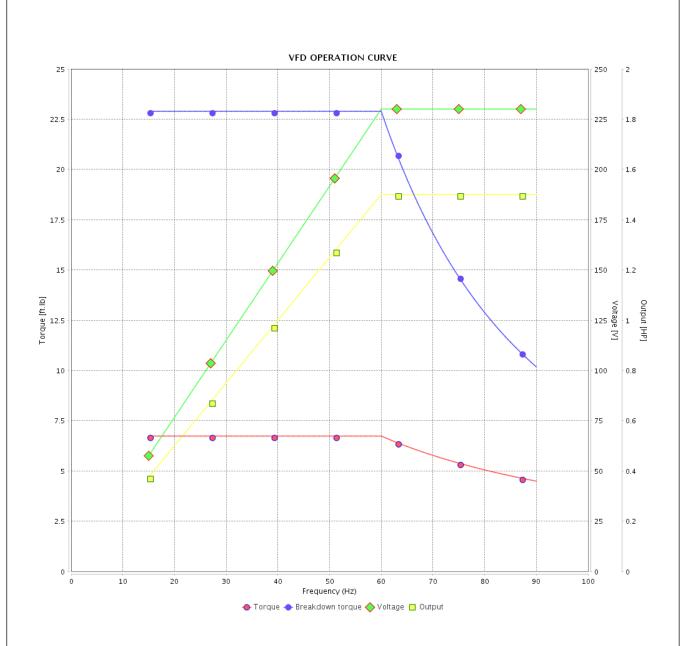
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Performance : 230/460 V 60 Hz 6P Rated current : 4.44/2.22 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.9 Insulation class Rated torque : 6.73 ft.lb : F Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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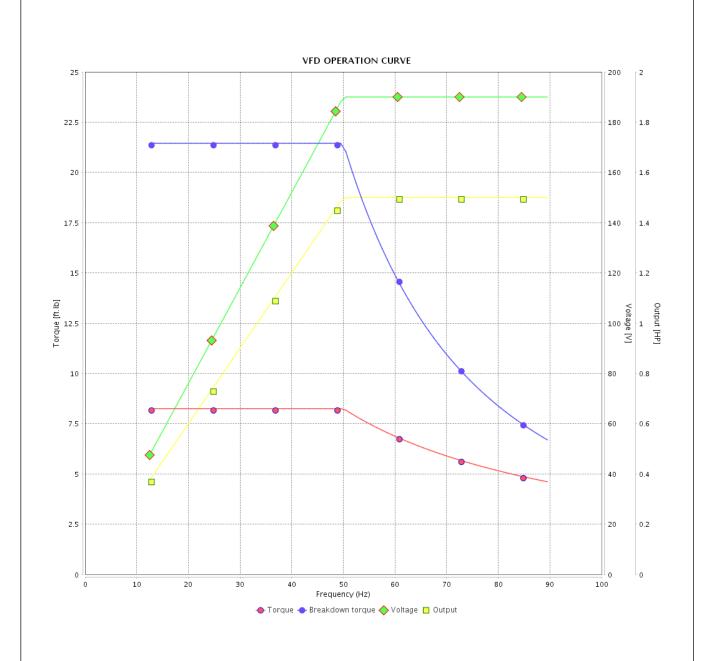
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VFD OPERATION CURVE

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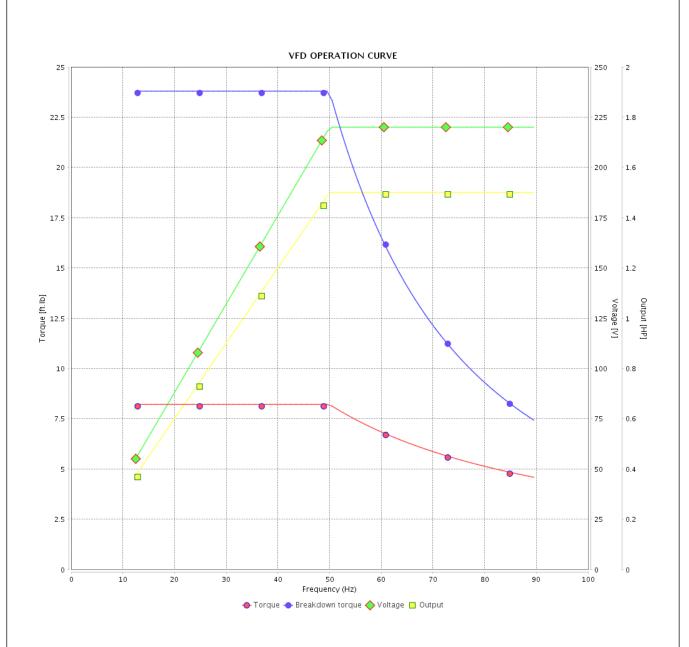
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Performance	: 2	20/415 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 8 que : 2	.73/2.51 A .3 .21 ft.lb 20 % 90 % 60 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2800 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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