DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11568741

Phase

Catalog #: 06009ET3E405T-W22

Frame : 404/5T 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 : 1151 lb
Protection degree : IP55 Moment of inertia (J) : 40.2 sq.ft.lb

Protection degree	е	: IP55		Momer	nt of inertia (J)	: 4	0.2 sq.ft.lb	
Design		: B						
Output [HP]		60	50	50	50	60	60	60
Poles		8	8	8	8	8	8	8
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		146/73.0	72.9	70.9	69.2	89.2	85.0	82.9
L. R. Amperes [A]		949/475	445	475	505	455	485	514
LRC [A]		6.5x(Code H)	6.1x(Code	6.7x(Code H)	7.3x(Code J)	5.1x(Code E)	5.7x(Code F)	6.2x(Code
			G)					G)
No load current [A]]	60.0/30.0	29.7	32.0	33.9	29.7	32.0	33.9
Rated speed [RPN	1]	880	725	730	730	720	725	725
Slip [%]		2.22	3.33	2.67	2.67	4.00	3.33	3.33
Rated torque [ft.lb]		358	362	360	360	438	435	435
Locked rotor torqu	Locked rotor torque [%]		180	210	229	150	170	190
Breakdown torque	[%]	270	250	290	310	210	240	260
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		23s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)
		13s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)
Noise level ²		60.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
	25%							
Efficiency (%)	50%	93.0	92.4	91.9	91.9	92.4	92.4	92.4
Efficiency (%)	75%	93.0	92.1	92.1	92.2	91.7	91.7	91.7
	100%	93.0	91.8	91.8	91.8	90.2	91.0	91.0
	25%							
Power Factor	50%	0.68	0.67	0.64	0.61	0.74	0.71	0.68
Fower Factor	75%	0.78	0.79	0.77	0.74	0.82	0.80	0.78
	100%	0.83	0.84	0.82	0.81	0.85	0.84	0.83

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

Bearing type : 6316 C3 6314 C3 Max. traction : 2816 lb Sealing : WSeal WSeal Lubrication interval : 20000 h 20000 h

Lubricant amount : 34 g 27 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 161A SF 1.10 SFA 178A

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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Three Phase Induction Motor - Squirrel Cage



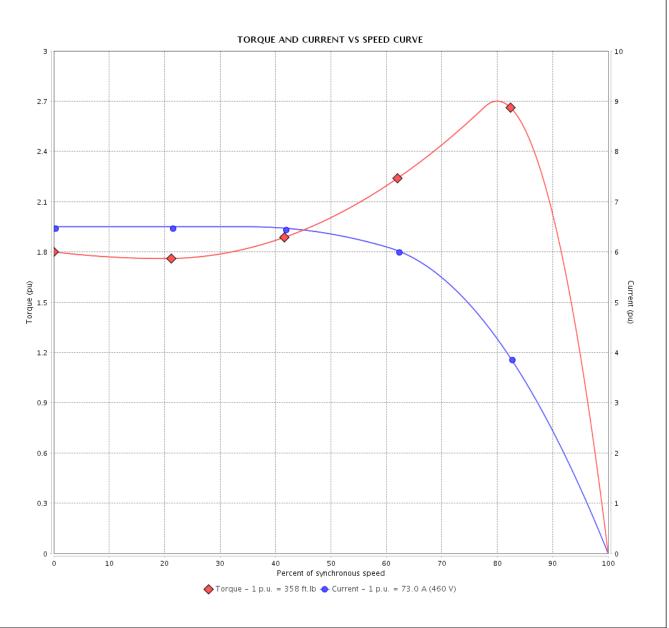
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 06009ET3E405T-W22

11568741



Performance : 230/460 V 60 Hz 8P Rated current : 146/73.0 A Moment of inertia (J) : 40.2 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 358 ft.lb : F Locked rotor torque : 180 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 880 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11568741 Catalog #: 06009ET3E405T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 362 ft.lb ◆ Current - 1 p.u. = 72.9 A (380 V) Performance : 380 V 50 Hz 8P IE3 Rated current : 72.9 A Moment of inertia (J) : 40.2 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 362 ft.lb : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 725 rpm Design : B Locked rotor time : 18s (cold) 10s (hot) Rev. Performed Checked Date **Changes Summary**

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Three Phase Induction Motor - Squirrel Cage



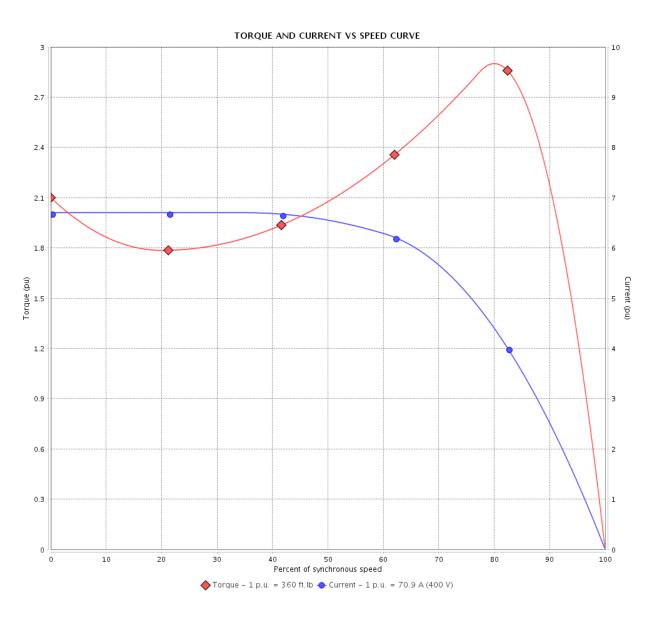
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11568741

Catalog #: 06009ET3E405T-W22



Performance : 400 V 50 Hz 8P IE3 Rated current : 70.9 A Moment of inertia (J) : 40.2 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 360 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 730 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11568741 Catalog #: 06009ET3E405T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 360 ft.lb ◆ Current - 1 p.u. = 69.2 A (415 V) Performance : 415 V 50 Hz 8P IE3 Rated current : 69.2 A Moment of inertia (J) : 40.2 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 360 ft.lb : F : 229 % Locked rotor torque Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 730 rpm Design : B Locked rotor time : 18s (cold) 10s (hot) Rev. Performed Checked Date **Changes Summary**

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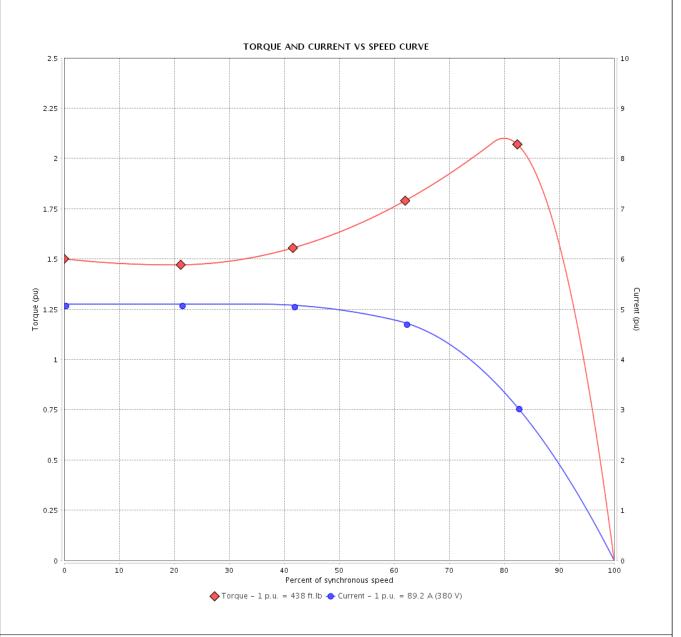


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11568741

Phase

Catalog #: 06009ET3E405T-W22



Performance	: 380 V 50 Hz 8P IE1			
Rated current	: 89.2 A	Moment of inertia (J)	: 40.2 sq.ft.lb	
LRC	: 5.1	Duty cycle	: Cont.(S1)	
Rated torque	: 438 ft.lb	Insulation class	: F	
Locked rotor torque	: 150 %	Service factor	: 1.00	
Breakdown torque	: 210 %	Temperature rise	: 105 K	
Rated speed	: 720 rpm	Design	: B	
1	. 40- (1-1) 40- (14)			

Locked rotor time : 18s (cold) 10s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11568741 Catalog #: 06009ET3E405T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 (pd) 1.25 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 435 ft.lb ◆ Current - 1 p.u. = 85.0 A (400 V)

Performance	: 400 V 50 Hz 8P IE2	: 400 V 50 Hz 8P IE2			
Rated current	: 85.0 A	Moment of inert	Moment of inertia (J)		
LRC	: 5.7	Duty cycle		: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque			: F ` ´		
Locked rotor torque	: 170 %	Service factor		: 1.00	
Breakdown torque	: 240 %	Temperature rise		: 105 K	
Rated speed	: 725 rpm	Design		: B	
Locked rotor time	: 18s (cold) 10s (hot)	ļ			
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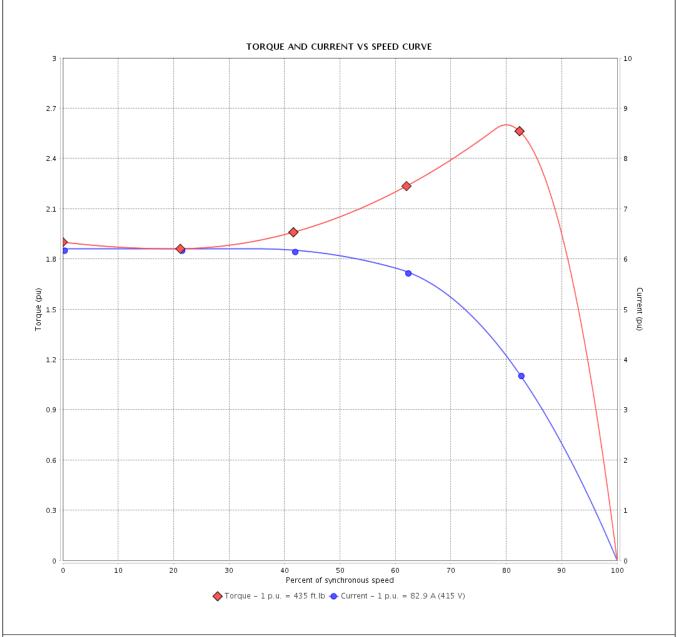
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11568741

Catalog #: 06009ET3E405T-W22



Performance : 415 V 50 Hz 8P IE2 Rated current : 82.9 A Moment of inertia (J) : 40.2 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 435 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 : 260 % Breakdown torque Temperature rise : 105 K Rated speed : 725 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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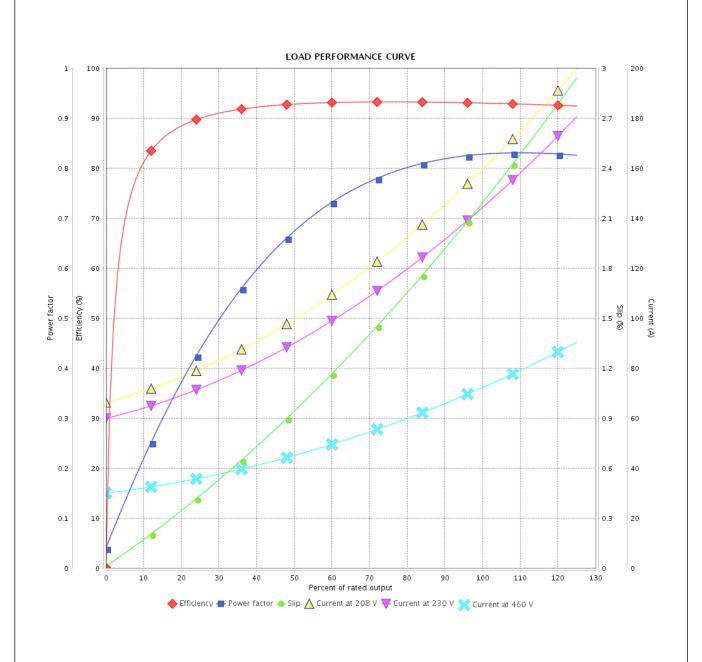


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11568741

Phase

Catalog #: 06009ET3E405T-W22



Performance	: 2	30/460 V 60 Hz 8P				
Rated current : 146/73.0 A		Moment o	Moment of inertia (J)			
LRC	: 6	: 6.5 Duty cycle		;	: Cont.(S1)	
Rated torque	Rated torque : 358 ft.lb Insul		Insulation	class	: F	
Locked rotor torque		180 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	270 %	Temperatu	Temperature rise		
Rated speed	: 8	380 rpm	Design		: B	
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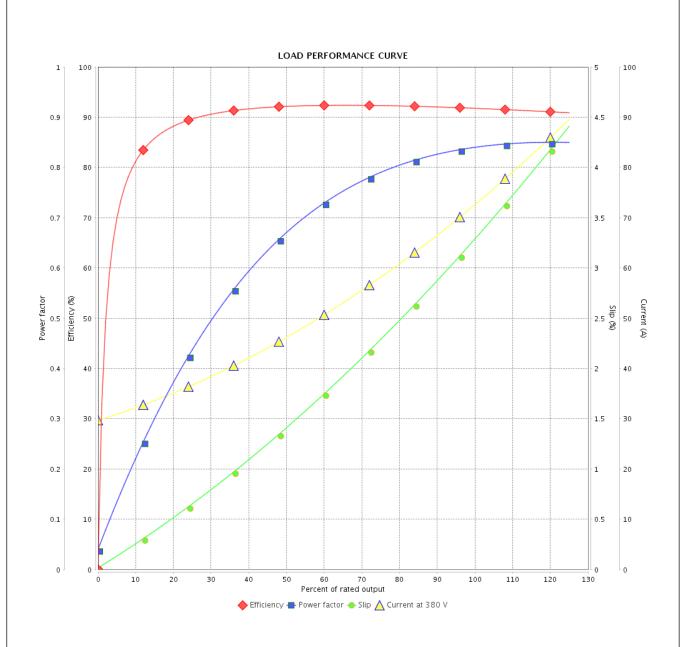
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Phase

Product code: 11568741

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Performance	: 380 V 50 Hz 8P IE3				
Rated current : 72.9 A LRC : 6.1 Rated torque : 362 ft.lb Locked rotor torque : 180 % Breakdown torque : 250 % Rated speed : 725 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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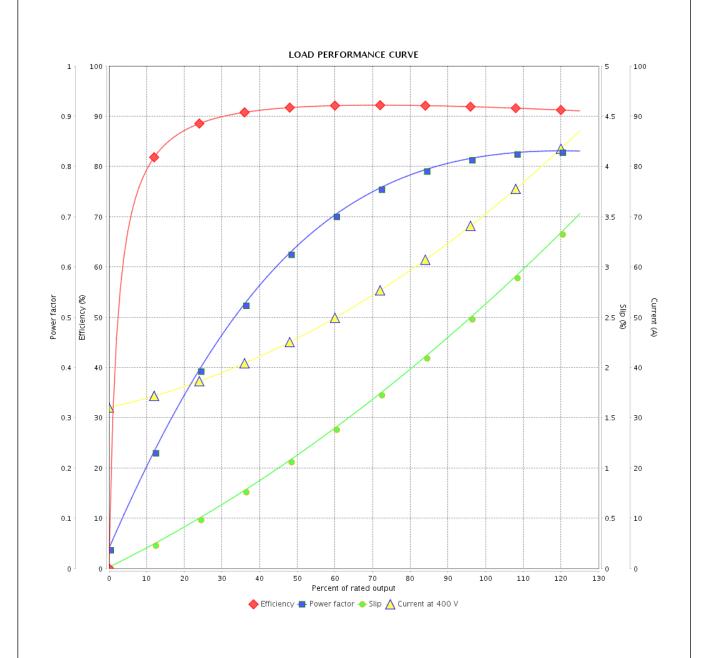


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Phase

Catalog #: 06009ET3E405T-W22



Performance	: 4	: 400 V 50 Hz 8P IE3				
Rated current	: 7	70.9 A	.9 A Moment of inertia (J)		: 40.2 sq.ft.lb	
LRC	: 6	6.7	Duty cycle	Duty cycle		
Rated torque	: 3	360 ft.lb	Insulation class		: F	
Locked rotor torq	ue : 2	210 %	Service fa	Service factor		
Breakdown torqu	e : 2	290 %	0 % Temperature rise		: 80 K	
Rated speed	: 7	730 rpm	Design		: B	
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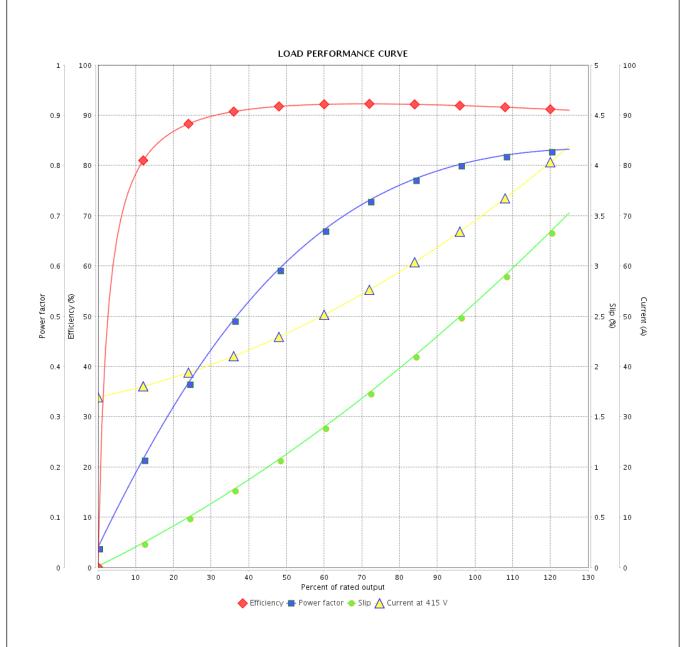
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Performance	: 4	15 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 3 jue : 2 ie : 3	99.2 A 7.3 160 ft.lb 129 % 110 % 730 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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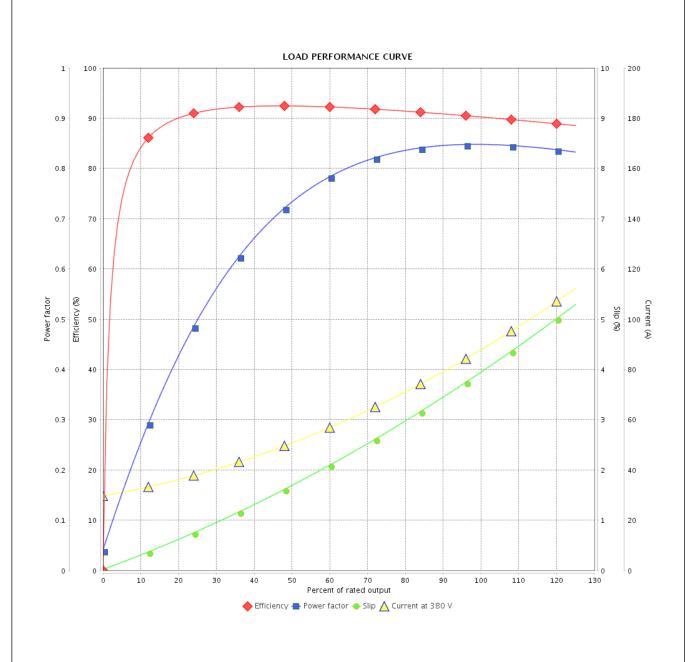


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11568741

Phase

Catalog #: 06009ET3E405T-W22



Performance	: 3	80 V 50 Hz 8P IE1	30 V 50 Hz 8P IE1			
Rated current	: 8	9.2 A	.2 A Moment of inertia (J)		: 40.2 sq.ft.lb	
LRC	: 5	5.1	Duty cycle)	: Cont.(S1)	
Rated torque	: 4	38 ft.lb	Insulation	class	: F	
Locked rotor torque	e :1	50 %	Service factor		: 1.00	
Breakdown torque : 21		10 %	Temperatu	Temperature rise		
Rated speed	: 7	'20 rpm	Design		: B	
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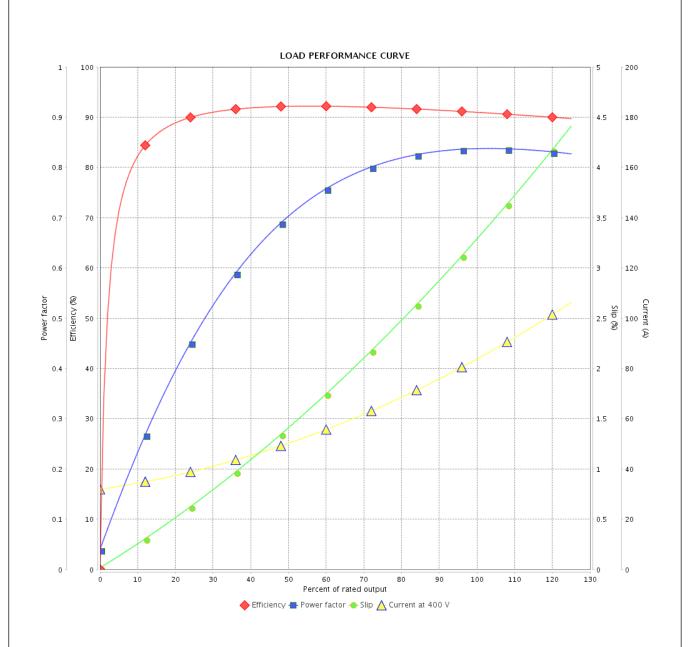
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			· · · · · · · · · · · · · · · · · · ·			
Performance	:	400 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	85.0 A 5.7 435 ft.lb 170 % 240 % 725 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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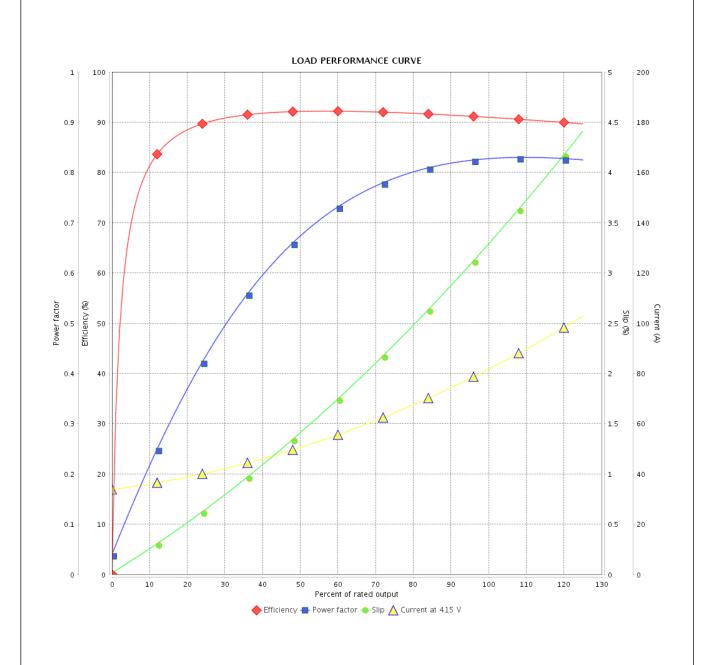


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11568741

Phase

Catalog #: 06009ET3E405T-W22



Performance	: 4	15 V 50 Hz 8P IE2				
Rated current		: 82.9 A Moment of ine		` '	inertia (J) : 40.2 sq.ft.lb	
LRC	: 6	.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 4	35 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	90 %	Service fa	Service factor		
Breakdown torque	: 2	60 %	Temperati	Temperature rise		
Rated speed	: 7	25 rpm	Design		: B	
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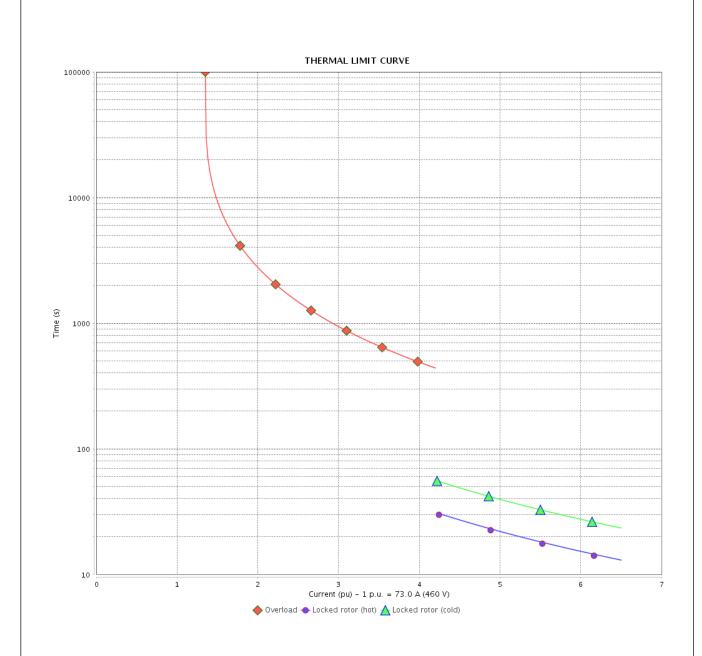


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Customer	:					
Product line	: I P	NEMA Premium Efficiency l		Product code :	11568741	
			(Catalog # :	06009ET3E40	05T-W22
Performance		30/460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 6. : 39 ue : 18 e : 21	46/73.0 A 5 58 ft.lb 80 % 70 % 80 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
		- · · · · ·			- -	
Heating constant						
Cooling constant Rev.		Changes Summary	I	Performed	Checked	Date
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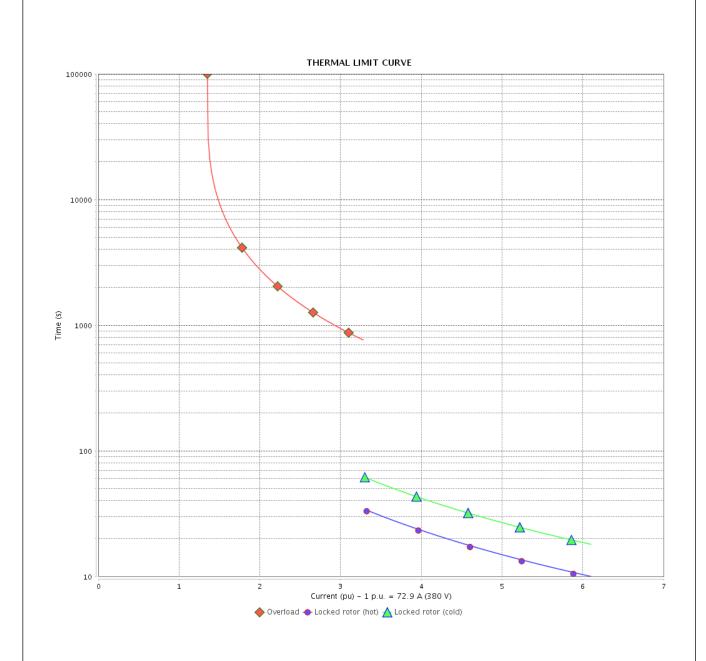


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11568741 06009ET3E40	05T-W22
Performance		: 380 V 50 Hz 8P IE3				
Rated current LRC		: 72.9 A : 6.1	Duty cycle		: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 362 ft.lb : 180 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue :	: 250 %	Temperat		: 80 K : B	
Rated speed Heating constan		: 725 rpm	Design		. U	
Cooling constant						
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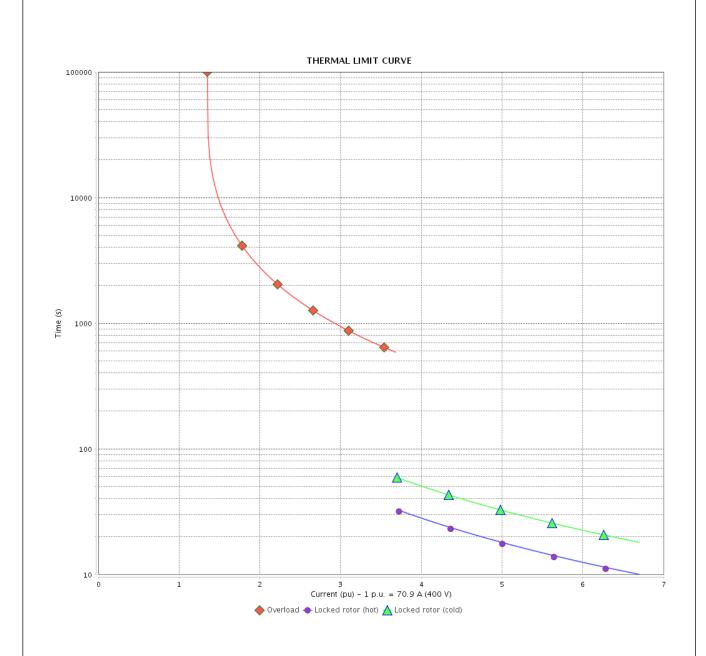


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11568741 06009ET3E40	05T-W22
Performance		: 400 V 50 Hz 8P IE3				
Rated current LRC		: 70.9 A : 6.7	Duty cycle		: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 360 ft.lb : 210 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 290 %	Temperat		: 80 K	
Rated speed		: 730 rpm	Design		: B	
Heating constan Cooling constan						
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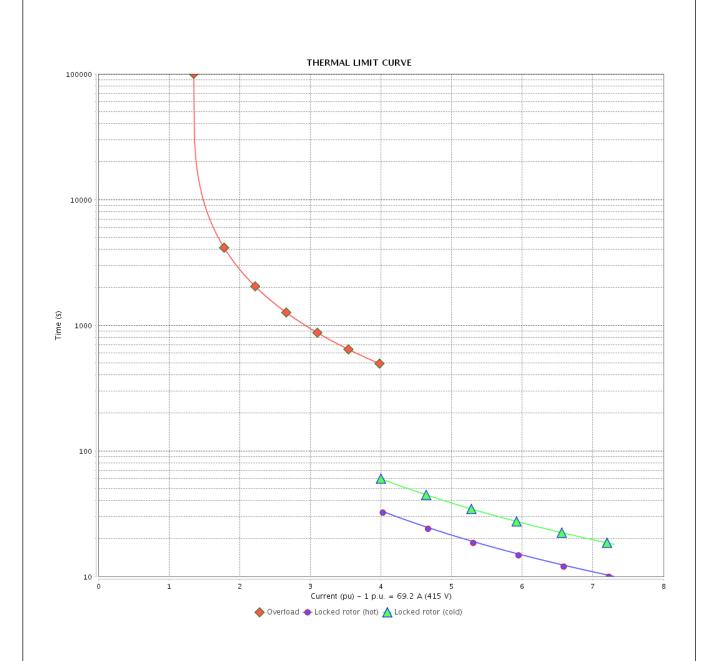


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11568741 06009ET3E40	05T-W22
Performance		: 415 V 50 Hz 8P IE3				
Rated current		: 69.2 A	Moment of	of inertia (J)	: 40.2 sq.ft.lb	
LRC Rated torque		: 7.3 : 360 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord		: 229 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 310 % : 730 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan						
Cooling constan	t					
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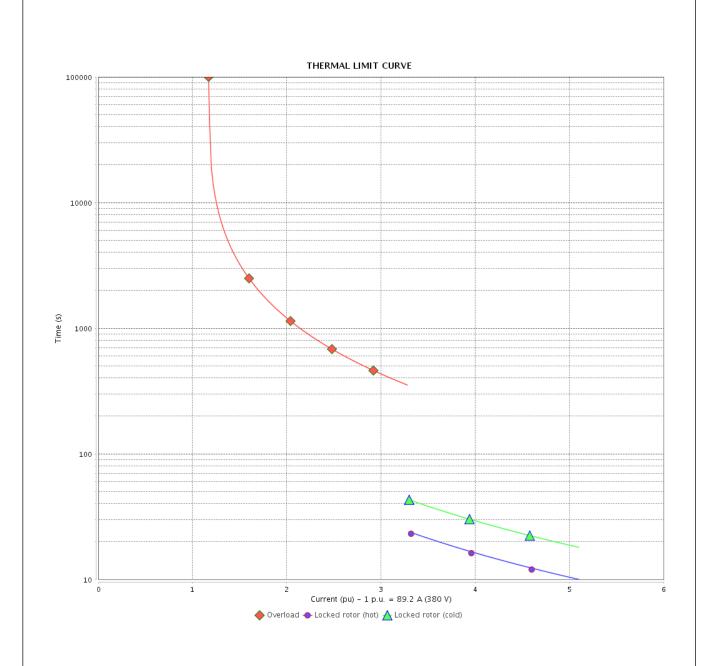


Customer	:				
Product line	: NEMA Premium Efficiency Phase	/ Three- Prod	duct code :	11568741	
		Cata	alog # :	06009ET3E405	5T-W22
Performance	: 380 V 50 Hz 8P IE1				
Rated current LRC	: 89.2 A : 5.1	Moment of ine Duty cycle	rtia (J)	: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque	: 438 ft.lb	Insulation clas	s	: F	
Locked rotor torque	: 150 %	Service factor		: 1.00	
Breakdown torque Rated speed	: 210 % : 720 rpm	Temperature r Design		: 105 K : B	
Heating constant					
Cooling constant					
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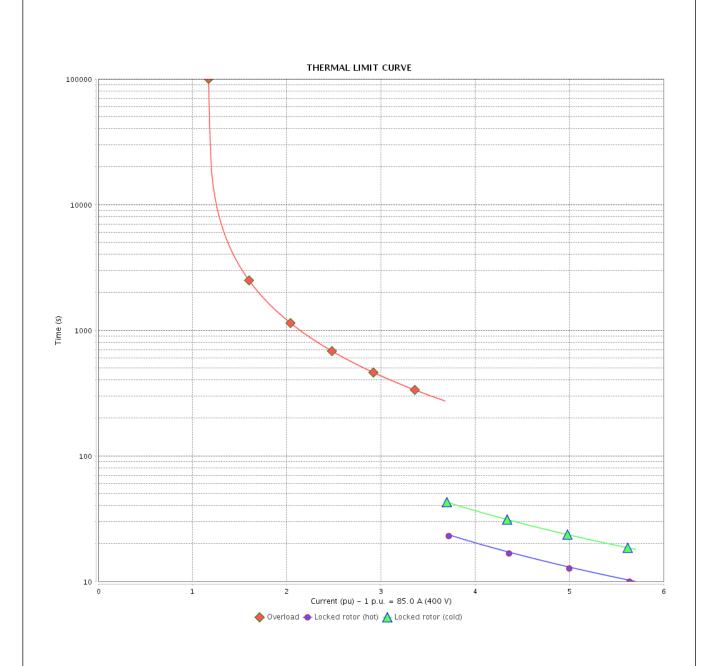


Customer	:					
Product line	: NE Phas	MA Premium Efficiency se		Product code :	11568741 06009ET3E40	05T-W22
Performance	: 400	V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 85.0 : 5.7 : 435 : 170 : 240 : 725	A ft.lb % %	Moment of Duty cycle Insulation Service far Temperatu Design	class	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.	CI	nanges Summary		Performed	Checked	Date
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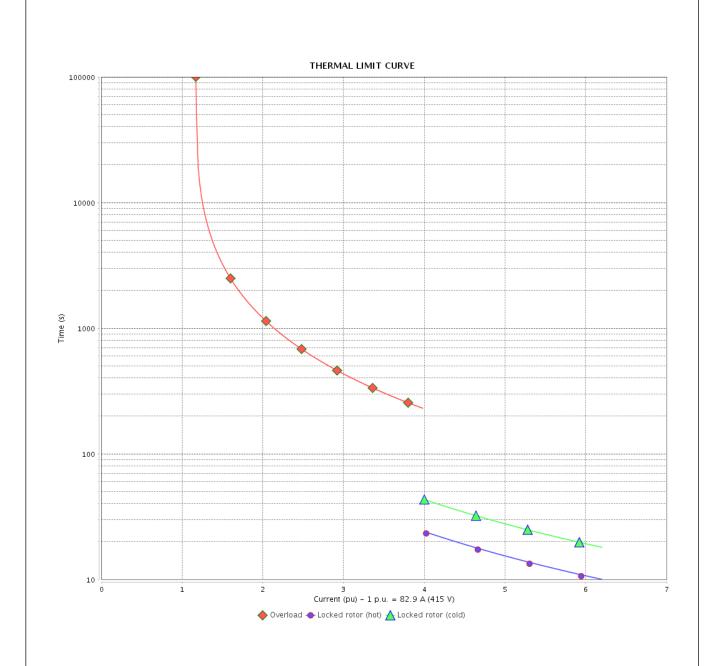


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343431101	•					
Product line		NEMA Premium Efficiency Thase	Γhree- I	Product code :	11568741	
	гі	idse	(Catalog # :	06009ET3E40)5T-W22
Performance		5 V 50 Hz 8P IE2	NA	Cim and in 7 IV	. 40.0	
Rated current LRC	: 82 : 6.:	2.9 A 2	Moment of Duty cycle	r inerτia (J)	: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque	: 43	5 ft.lb	Insulation	class	: F	
Locked rotor torque		00 %	Service fac		: 1.00	
Breakdown torque Rated speed		60 % 25 rpm	Temperatu Design	ire rise	: 105 K : B	
Heating constant						
Cooling constant						
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Phase

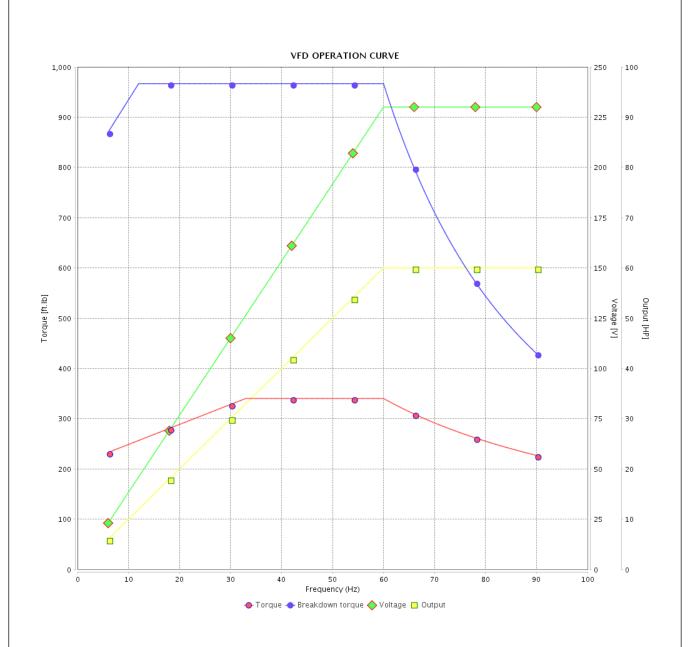
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Performance	: 230/460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 6.5 Duty cycle : Col : 358 ft.lb Insulation class : F : 180 % Service factor : 1.2 : 270 % Temperature rise : 80		: 1.25 : 80 K	
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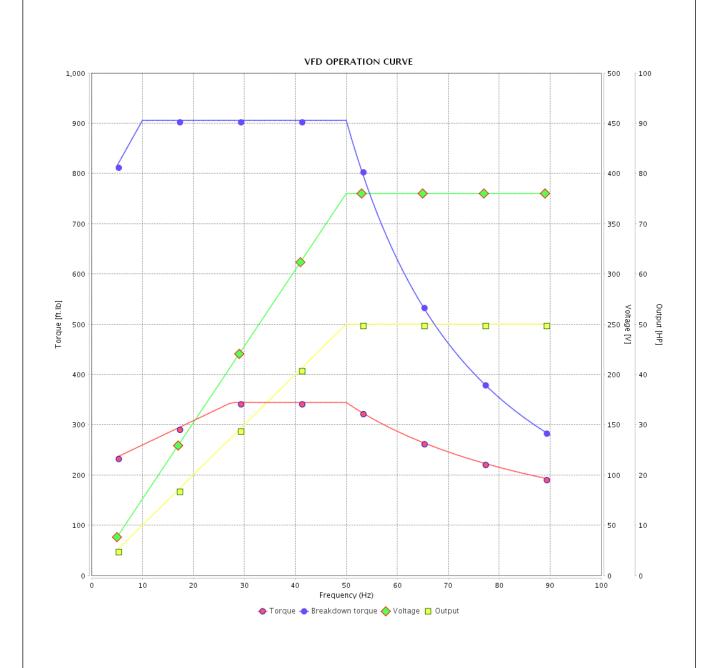


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Performance	. 3	80 V 50 Hz 8P IE3			,	
Rated current	: 72	2.9 A	Moment o	f inertia (J)	: 40.2 sq.ft.lb	
LRC	: 6.	.1	Duty cycle	!	: Cont.(S1)	
Rated torque	: 30	62 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 18	80 %	Service fa	ctor	: 1.00	
Breakdown torque		50 %	Temperature rise		: 80 K	
Rated speed	: 72	'25 rpm Design		: B		
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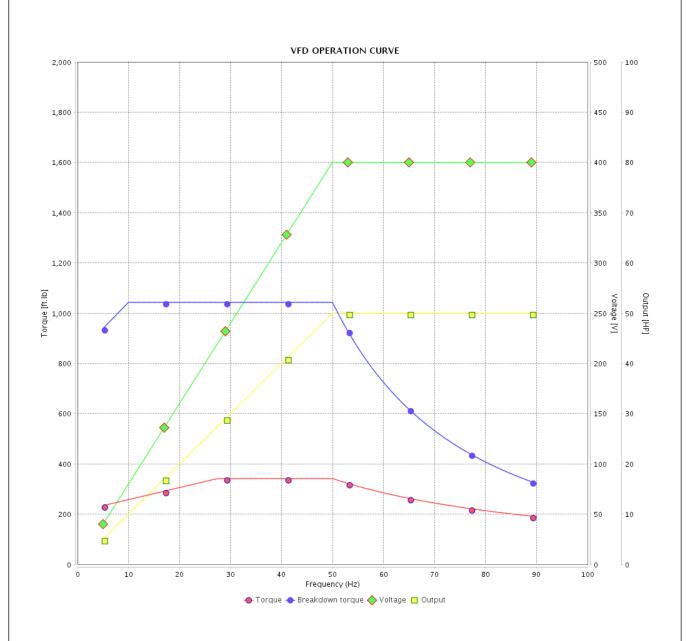
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Performance	: 400 V 50 Hz 8P IE3				
Rated current	: 70.9 A	Moment o	of inertia (J)	: 40.2 sq.ft.lb	
LRC	: 6.7	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 360 ft.lb Insulation class		class	: F	
Locked rotor torque	: 210 %	Service fa	actor	: 1.00	
Breakdown torque	: 290 %	Temperature rise		: 80 K	
Rated speed	: 730 rpm	Design		: B	
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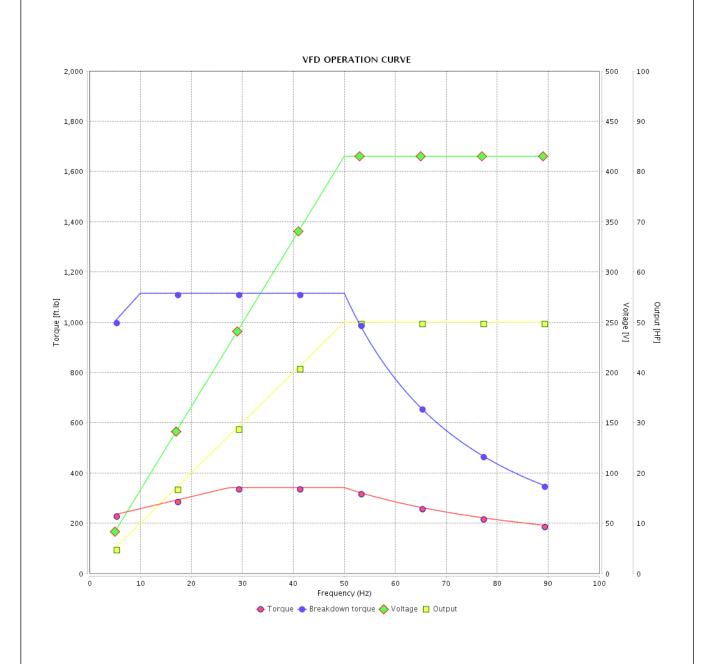
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Performance	: 415 V 50 Hz 8P IE3	: 415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 69.2 A : 7.3 : 360 ft.lb : 229 % : 310 % : 730 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K		
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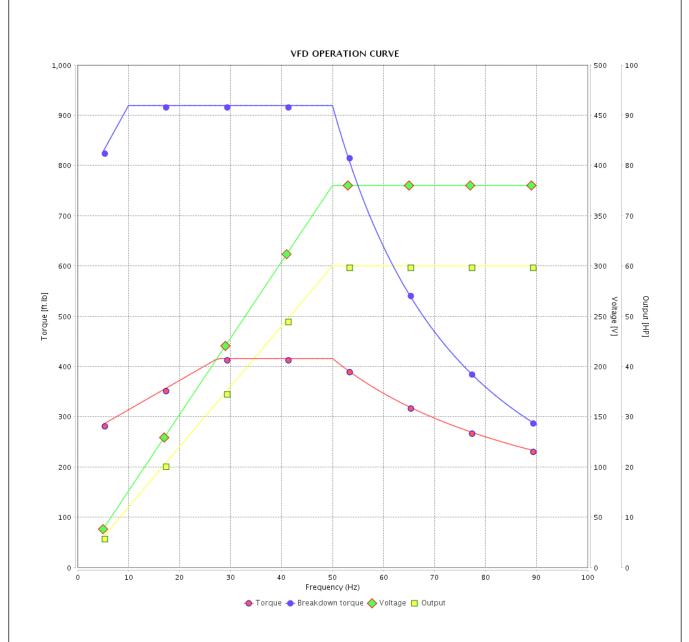
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Performance : 380 V 50 Hz 8P IE1 Rated current : 89.2 A Moment of inertia (J) : 40.2 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) : 438 ft.lb Insulation class Rated torque : F Locked rotor torque : 150 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 720 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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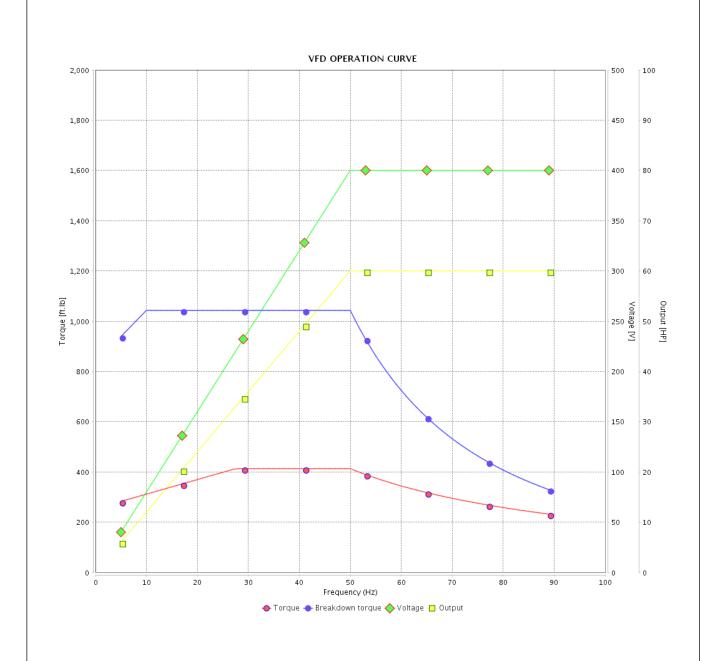


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Performance	: •	400 V 50 Hz 8P IE2				
Rated current	: :	85.0 A	Moment o	f inertia (J)	: 40.2 sq.ft.lb	
LRC	: :	5.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: -	435 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	170 %	Service fa	ctor	: 1.00	
Breakdown torque	::	240 %	Temperature rise		: 105 K	
Rated speed	:	725 rpm	Design		: B	
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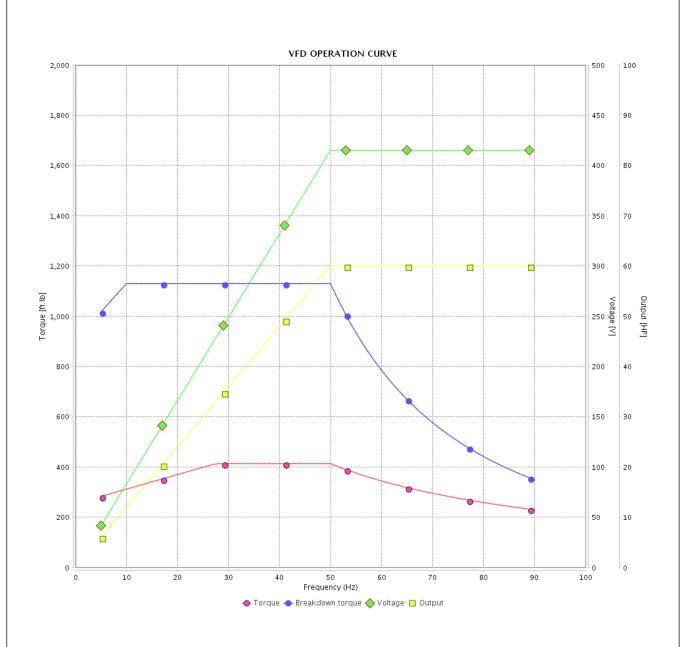
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Performance	: 415 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 82.9 A : 6.2 : 435 ft.lb : 190 % : 260 % : 725 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class ctor	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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