DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11507900

Phase

Catalog #: 00309ET3E215TC-W22

Frame : 213/5TC 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 : 187 lb
Protection degree : IP55 Moment of inertia (J) : 2.11 sq.ft.lb

Protection degree		: IP55	Moment of inc	Moment of inertia (J) : 2.11 sq.ft.lb			
Design		: B					
Output [HP]		3	3	3	3		
Poles		8	8	8	8		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		230/460	380	400	415		
Rated current [A]		9.10/4.55	5.33	5.20	5.06		
L. R. Amperes [A]		61.9/30.9	28.2	31.2	32.9		
LRC [A]		6.8x(Code K)	5.3x(Code G)	6.0x(Code J)	6.5x(Code J)		
No load current [A]	5.43/2.71	2.68	2.86	3.00		
Rated speed [RPN	/ 1]	870	710	715	720		
Slip [%]		3.33	5.33	4.67	4.00		
Rated torque [ft.lb]		18.1	22.2	22.0	21.9		
Locked rotor torque [%]		229	180	220	260		
Breakdown torque	[%]	275	200				
Service factor		1.25	1.25 1.25		1.25		
Temperature rise		80 K	80 K	80 K	80 K		
Locked rotor time		79s (cold) 44s (hot)	59s (cold) 33s (hot)	59s (cold) 33s (hot)	59s (cold) 33s (hot)		
Noise level ²		52.0 dB(A)	52.0 dB(A)	52.0 dB(A)	52.0 dB(A)		
	25%	83.7	85.0	85.0	82.1		
Efficiency (%)	50%	84.0	84.0	84.0	82.5		
Linciency (70)	75%	85.5	84.0	84.0	84.0		
	100%	85.5	82.5	82.5	84.0		
	25%	0.29	0.34	0.31	0.29		
Power Factor	50%	0.50	0.57	0.54	0.51		
I OWELL ACIOI	75%	0.63	0.70	0.67	0.64		
	100%	0.71	0.76	0.74	0.72		

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

Bearing type : 6308 ZZ 6207 ZZ Max. traction : 240 lb Sealing : V'Ring V'Ring Max. compression : 426 lb

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

Notes

USABLE @208V 10.1A SF 1.15 SFA 11.6A

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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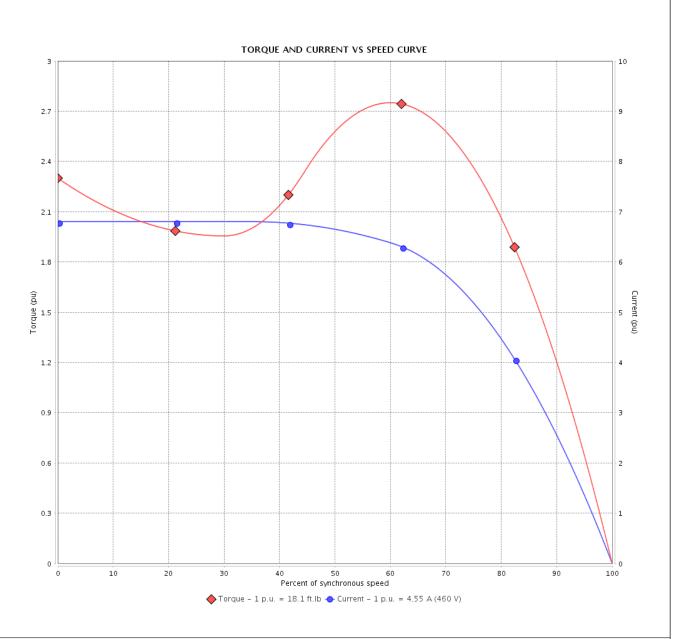


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11507900

Phase

Catalog #: 00309ET3E215TC-W22



Performance	: 230/460 V 60 Hz 8P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 9.10/4.55 A : 6.8 : 18.1 ft.lb : 229 % : 275 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 2.11 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K
Rated speed	: 870 rpm	Design	: B
Looked roter time	: 70a (aald) 44a (bat)	•	

Locked rotor time : 79s (cold) 44s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11507900 Catalog #: 00309ET3E215TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 22.2 ft.lb ◆ Current - 1 p.u. = 5.33 A (380 V) Performance : 380 V 50 Hz 8P IE3 Rated current : 5.33 A Moment of inertia (J) : 2.11 sq.ft.lb **LRC** : 5.3 Duty cycle : Cont.(S1) : 22.2 ft.lb Insulation class : F Rated torque : 180 % Locked rotor torque Service factor : 1.25 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 710 rpm Design : B Locked rotor time : 59s (cold) 33s (hot) Date Rev. Performed Checked **Changes Summary**

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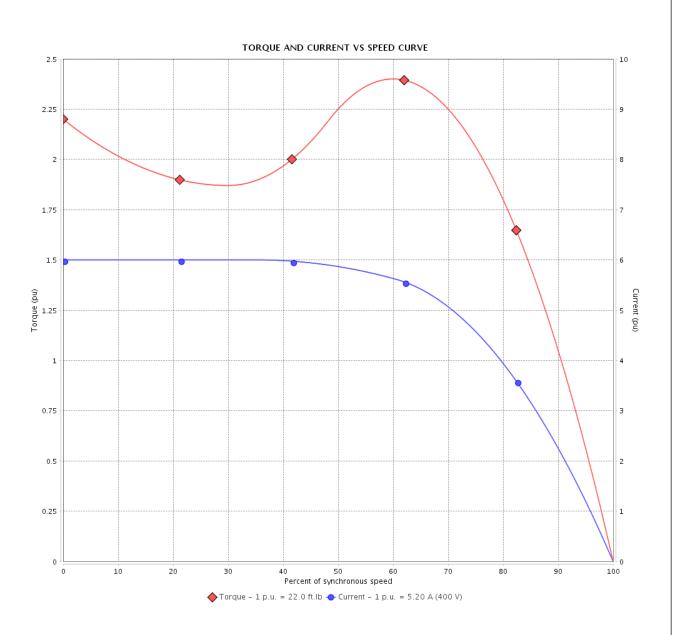
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00309ET3E215TC-W22

11507900



Performance	: 400 V 50 Hz 8P IE3			
Rated current	: 5.20 A	Moment of inertia (J)	: 2.11 sq.ft.lb	
LRC	: 6.0	Duty cycle	: Cont.(S1)	
Rated torque	: 22.0 ft.lb	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.25	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 715 rpm	Design	: B	
Locked rotor time	: 50e (cold) 33e (hot)			

Locked rotor time : 59s (cold) 33s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11507900 Catalog #: 00309ET3E215TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 21.9 ft.lb ◆ Current - 1 p.u. = 5.06 A (415 V) Performance : 415 V 50 Hz 8P IE3 Rated current : 5.06 A Moment of inertia (J) : 2.11 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 21.9 ft.lb : 260 % Locked rotor torque Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 720 rpm Design : B Locked rotor time : 59s (cold) 33s (hot) Rev. Performed Checked Date **Changes Summary**

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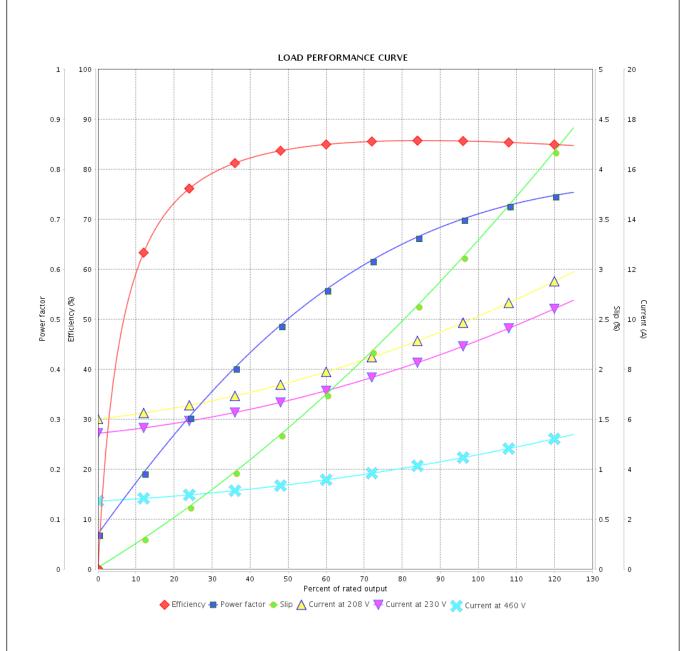
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Phase

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Performance	: 230/460 V 60 Hz 8P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 9.10/4.55 A : 6.8 : 18.1 ft.lb : 229 % : 275 % : 870 rpm	: 6.8 Duty cycle : Cont.(S1 : 18.1 ft.lb Insulation class : F : 229 % Service factor : 1.25 : 275 % Temperature rise : 80 K		
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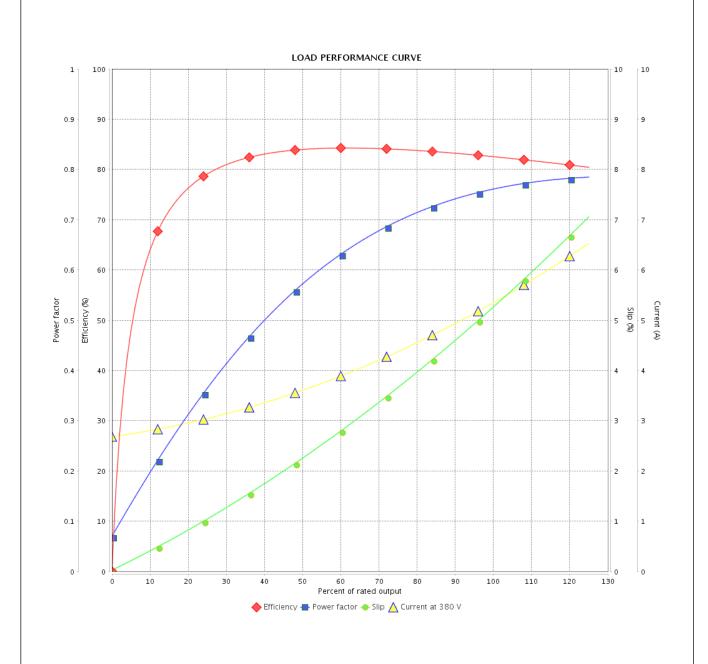
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Product line : NEMA Premium Efficiency Three- Product code : 11507900

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Performance	: 380 V 50 Hz 8P IE3				
Rated current	: 5.33 A	Moment of inertia (J)		: 2.11 sq.ft.lb	
LRC	: 5.3	Duty cycle		: Cont.(S1)	
Rated torque	: 22.2 ft.lb	Insulation clas	S	: F	
Locked rotor torque	: 180 %	Service factor		: 1.25	
Breakdown torque	: 200 %	Temperature rise		: 80 K	
Rated speed	: 710 rpm	Design		: B	
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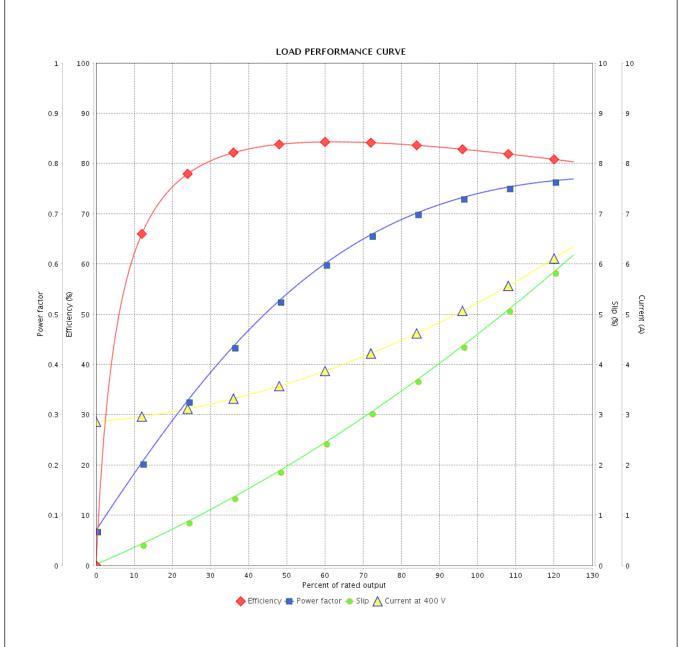
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Phase

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Performance	: 4	00 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 2 que : 2 ue : 2	0.20 A 0.0 2.0 ft.lb 20 % 40 % 115 rpm	Moment of Duty cycle Insulation Service fa Temperation	class actor	: 2.11 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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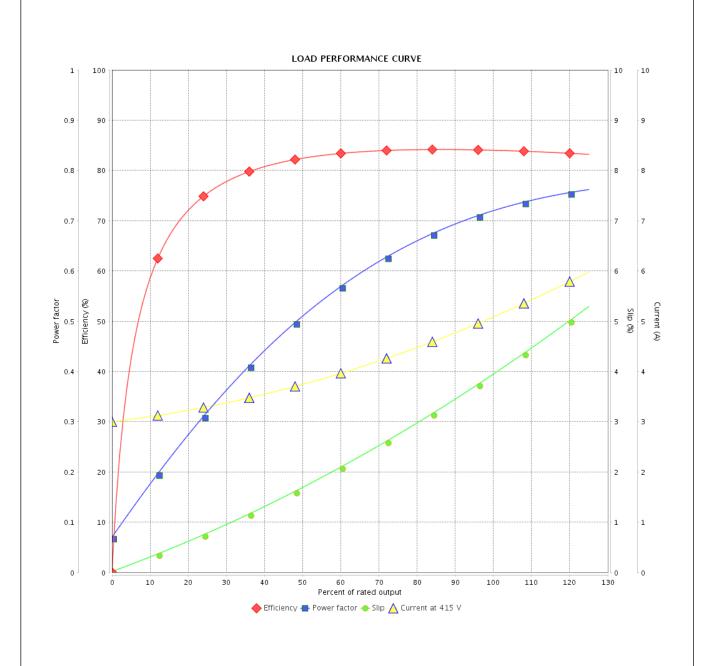


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Product line : NEMA Premium Efficiency Three- Product code : 11507900

Phase

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Performance	: 4	15 V 50 Hz 8P IE3				
Rated current	: 5.	06 A	Moment o	f inertia (J)	: 2.11 sq.ft.lb	
LRC	: 6.	5	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	1.9 ft.lb	Insulation	class	: F	
Locked rotor torq	jue : 20	80 %	Service fa	ctor	: 1.25	
Breakdown torque		70 %	Temperature rise		: 80 K	
Rated speed	: 72	20 rpm	Design		: B	
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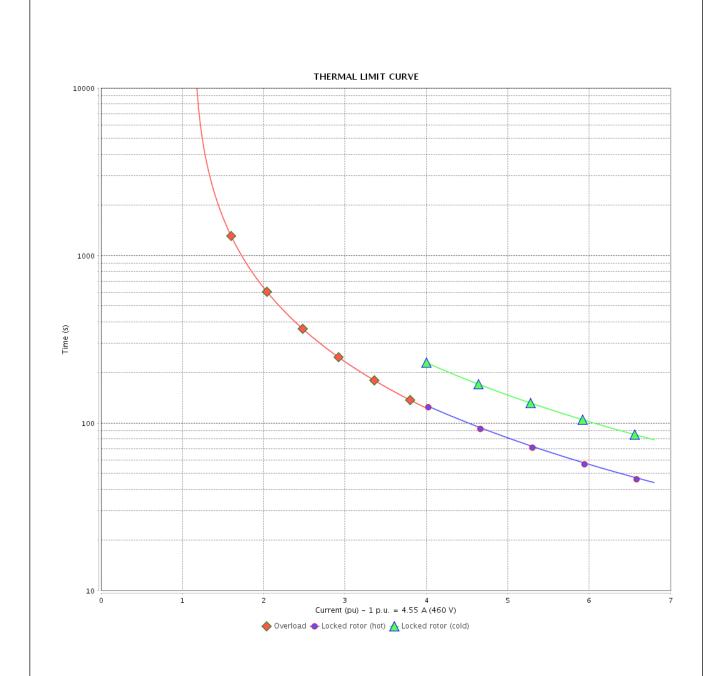


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Product line		: NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	11507900 00309ET3E2	15TC-W22
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Performance Rated current LRC Rated torque Locked rotor torque Rated speed Heating constant Cooling constant Rev.	: 9 : 0 : 1 : 1 : 2 : 8	230/460 V 60 Hz 8P 9.10/4.55 A 6.8 18.1 ft.lb 229 % 275 % 870 rpm Changes Summary	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 2.11 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	Date
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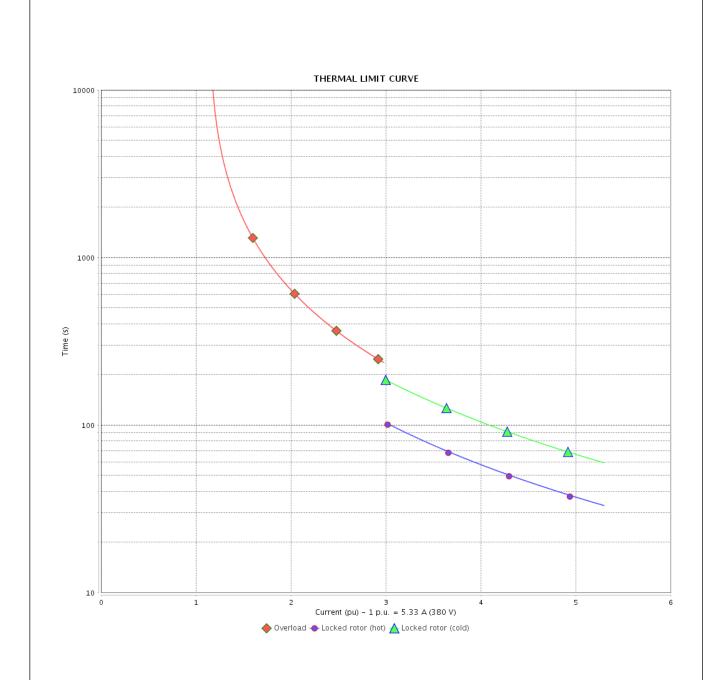


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Product line	: NEMA Premium Efficiency Phase		Product code :	11507900	
			Catalog # :	00309ET3E2	15TC-W22
Performance	: 380 V 50 Hz 8P IE3				
Rated current LRC	: 5.33 A : 5.3	Moment o	f inertia (J)	: 2.11 sq.ft.lb	
Rated torque	: 5.3 : 22.2 ft.lb	Duty cycle Insulation	; class	: Cont.(S1) : F	
Locked rotor torque	: 180 %	Service fa		: 1.25	
Breakdown torque	: 200 %	Temperatu		: 80 K	
Rated speed	: 710 rpm	Design		: B	
Heating constant					
Cooling constant			γ	,	
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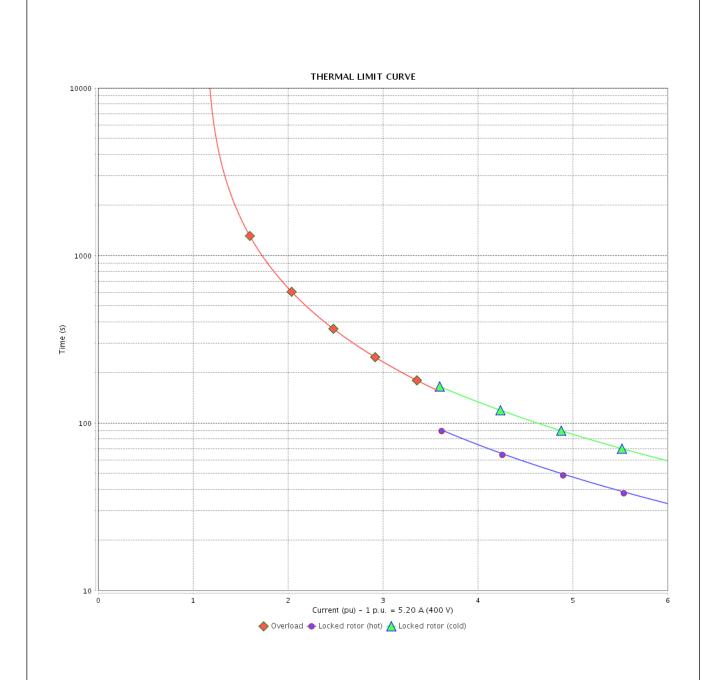


Customer	:					
Product line	: F	NEMA Premium Efficiency [*] Phase		Product code :	11507900 00309ET3E2	15TC-W22
Performance	: 4	400 V 50 Hz 8P IE3				
Rated current LRC		5.20 A 6.0	Moment o	f inertia (J)	: 2.11 sq.ft.lb : Cont.(S1)	
Rated torque	: 2	22.0 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu	ie : 2	220 % 240 %	Service fa Temperati		: 1.25 : 80 K	
Rated speed		715 rpm	Design		: B	
Heating constan						
Cooling constant	.	Changes Summary		Performed	Checked	Date
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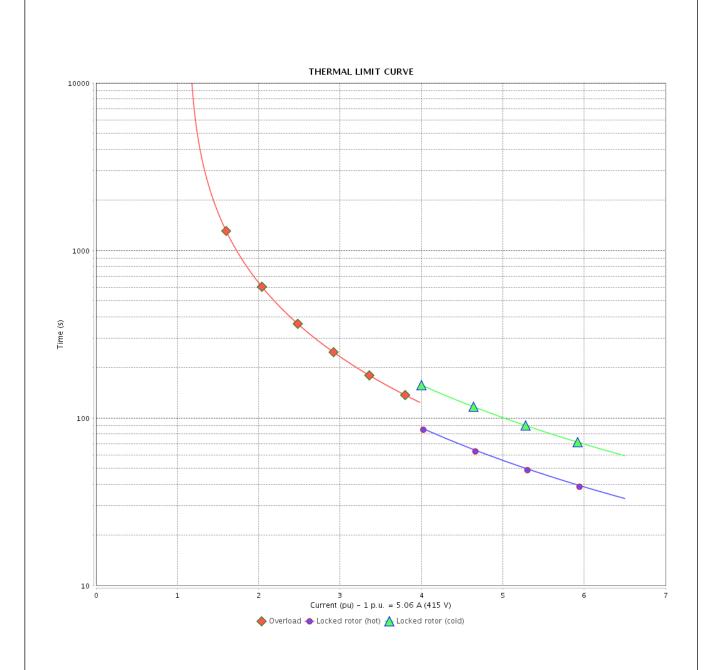


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog # :	11507900 00309ET3E2	15TC-W22
Performance	: 415 V 50 Hz 8P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.06 A : 6.5 : 21.9 ft.lb : 260 % : 270 % : 720 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 2.11 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant				
Cooling constant Rev.	Changes Summary	Performed	Checked	Date
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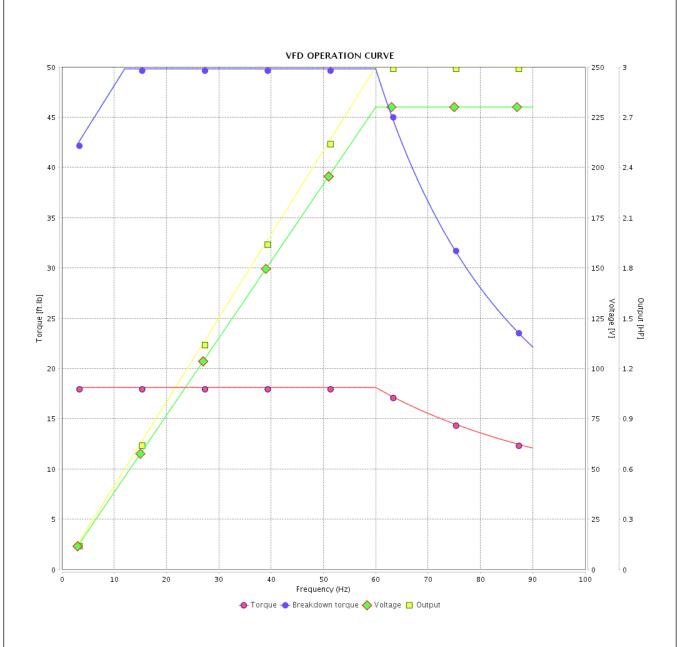
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Performance : 230/460 V 60 Hz 8P Rated current : 9.10/4.55 A Moment of inertia (J) : 2.11 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 18.1 ft.lb : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 275 % Temperature rise : 80 K Rated speed : 870 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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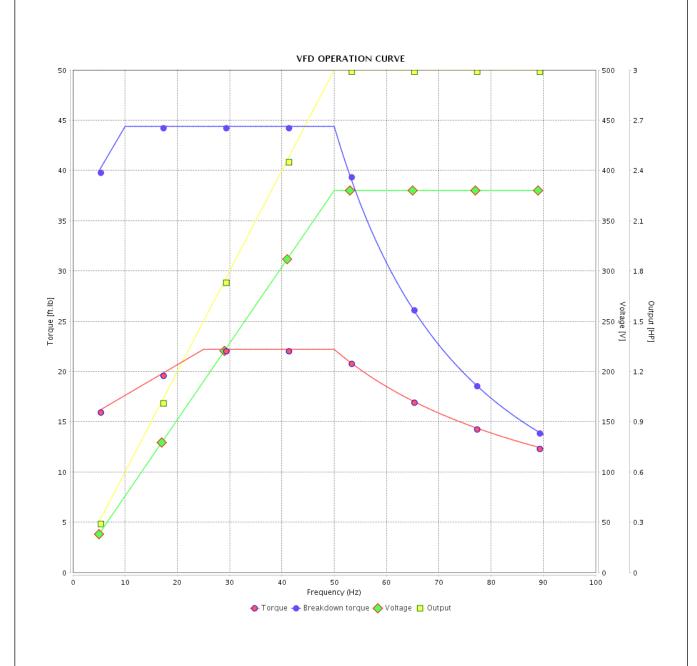


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Product line : NEMA Premium Efficiency Three- Product code : 11507900

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Catalog #: 00309ET3E215TC-W22



Performance	: 38	30 V 50 Hz 8P IE3				
Rated current	: 5.	33 A	Moment of	of inertia (J)	: 2.11 sq.ft.lb	
LRC	: 5.	3	Duty cycle	9	: Cont.(S1)	
Rated torque	: 22	2.2 ft.lb	Insulation	class	: F	
Locked rotor toro	jue : 18	30 %	Service fa	ictor	: 1.25	
Breakdown torqu	ie : 20	00 %	Temperature rise		: 80 K	
Rated speed	: 7	10 rpm	Design		: B	
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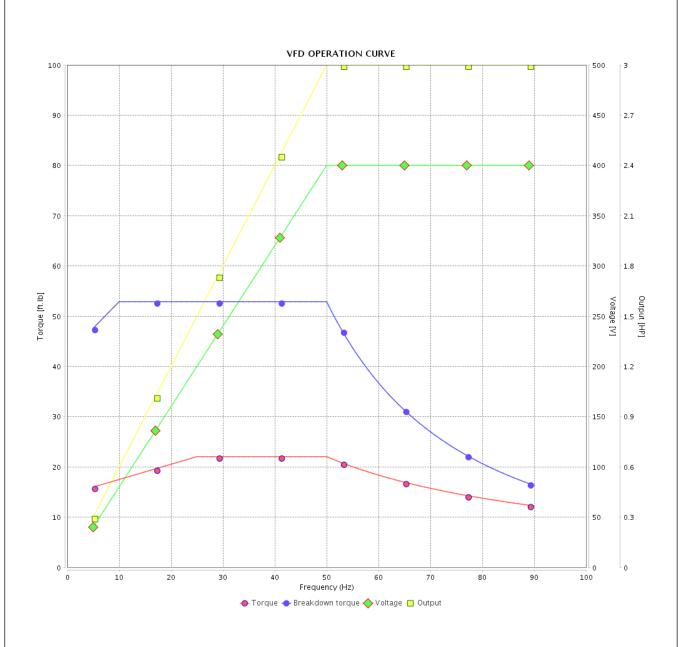
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Performance	:	400 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: : :ue :: !e ::	5.20 A 6.0 22.0 ft.lb 220 % 240 % 715 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 2.11 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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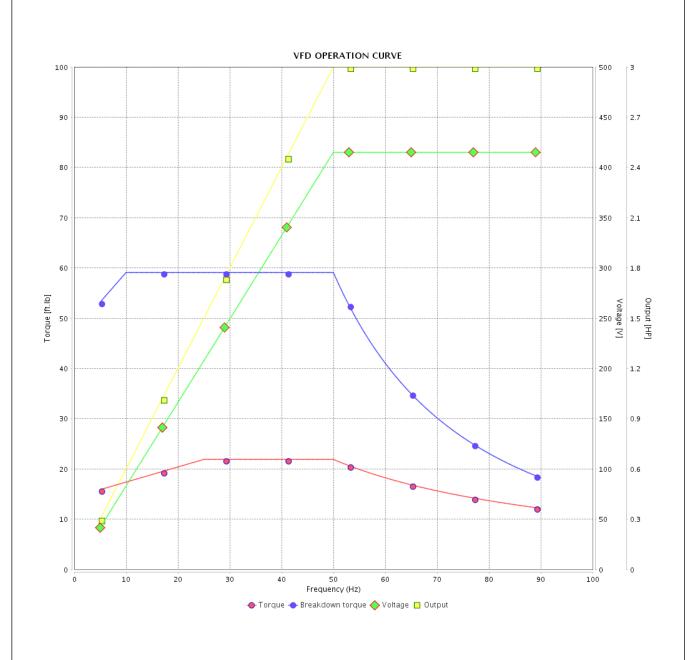
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Performance	: 415 V 50 Hz 8P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.06 A : 6.5 : 21.9 ft.lb : 260 % : 270 % : 720 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 2.11 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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