### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11456699

Phase

Catalog #: 00512ET3E215T-W22

Frame : 213/5T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 172 lb

Protection degree : IP55 Moment of inertia (J) : 1.47 sq.ft.lb

Protection degree		: IP55	Moment of ine	ertia (J)	sq.ft.lb
Design		: B			
Output [HP]		5	5	5	5
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		13.7/6.83	8.10	7.82	7.55
L. R. Amperes [A]		92.9/46.4	44.5	47.7	49.1
LRC [A]		6.8x(Code J)	5.5x(Code G)	6.1x(Code H)	6.5x(Code H)
No load current [A	]	6.90/3.45	3.41	3.68	3.90
Rated speed [RPN	<b>/</b> []	1170	960	965	970
Slip [%]	Slip [%]		4.00	3.50	3.00
Rated torque [ft.lb]	Rated torque [ft.lb]		27.4	27.2	27.1
Locked rotor torqu	e [%]	170	140	160	190
Breakdown torque	[%]	260	200	229	250
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		102s (cold) 57s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)
Noise level <sup>2</sup>		55.0 dB(A)	53.0 dB(A)	53.0 dB(A)	53.0 dB(A)
	25%	88.2	89.8	89.1	87.2
Efficiency (%)	50%	88.5	88.5	88.5	87.5
Efficiency (70)	75%	89.5	88.5	88.5	88.5
	100%	89.5	86.8	87.5	88.5
	25%	0.34	0.40	0.37	0.34
Power Factor	50%	0.58	0.65	0.61	0.58
FOWEI FACIOI	75%	0.70	0.76	0.73	0.71
	100%	0.76	0.80	0.78	0.77

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

Bearing type : 6308 ZZ 6207 ZZ Max. traction : 295 lb Sealing : V'Ring V'Ring Max. compression : 468 lb

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

Notes

USABLE @208V 15.1A SF 1.15 SFA 17.4A

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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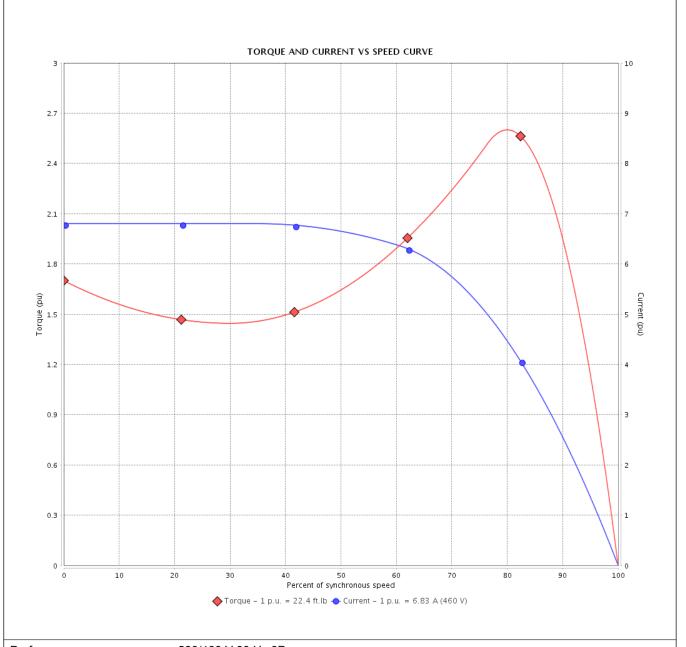
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11456699

Catalog #: 00512ET3E215T-W22



Performance : 230/460 V 60 Hz 6P Rated current : 13.7/6.83 A Moment of inertia (J) : 1.47 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 22.4 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 170 % : 1.25 Breakdown torque : 260 % Temperature rise : 80 K

Locked rotor time : 102s (cold) 57s (hot)

: 1170 rpm

Rated speed

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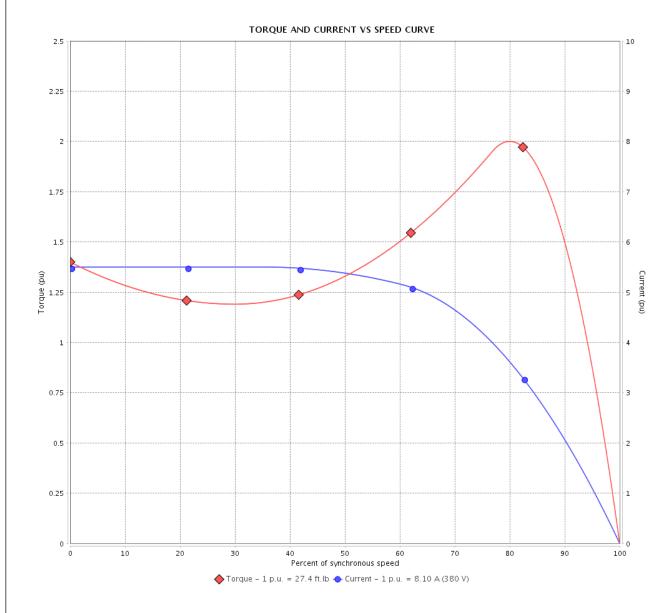
Design

: B

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11456699 Catalog #: 00512ET3E215T-W22



Performance : 380 V 50 Hz 6P IE3 Rated current : 8.10 A Moment of inertia (J) : 1.47 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) Rated torque : 27.4 ft.lb Insulation class : F : 140 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 200 % Temperature rise : B Rated speed : 960 rpm Design Locked rotor time : 54s (cold) 30s (hot)

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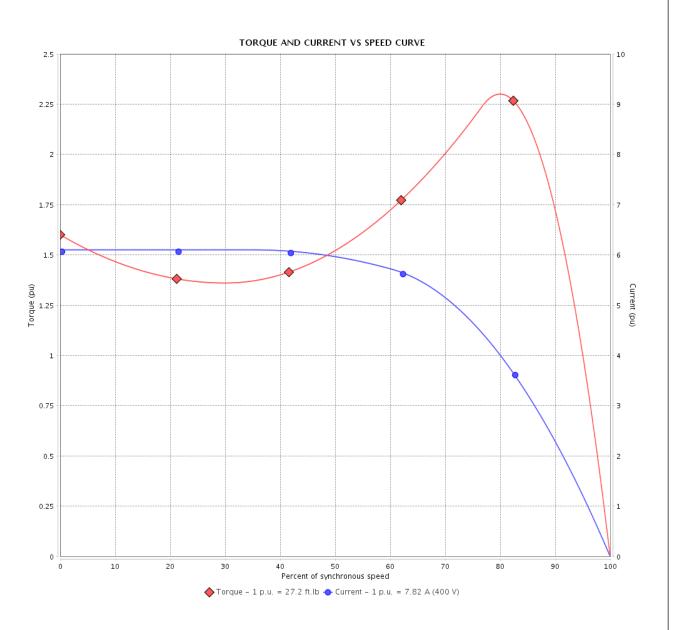
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11456699

Catalog #: 00512ET3E215T-W22



Performance : 400 V 50 Hz 6P IE3 Rated current : 7.82 A Moment of inertia (J) : 1.47 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 27.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 160 % : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 965 rpm Design : B Locked rotor time

: 54s (cold) 30s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11456699 Catalog #: 00512ET3E215T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 27.1 ft.lb ◆ Current - 1 p.u. = 7.55 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 7.55 A Moment of inertia (J) : 1.47 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 27.1 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 970 rpm Design : B Locked rotor time : 54s (cold) 30s (hot) Rev. Performed Checked Date **Changes Summary** 

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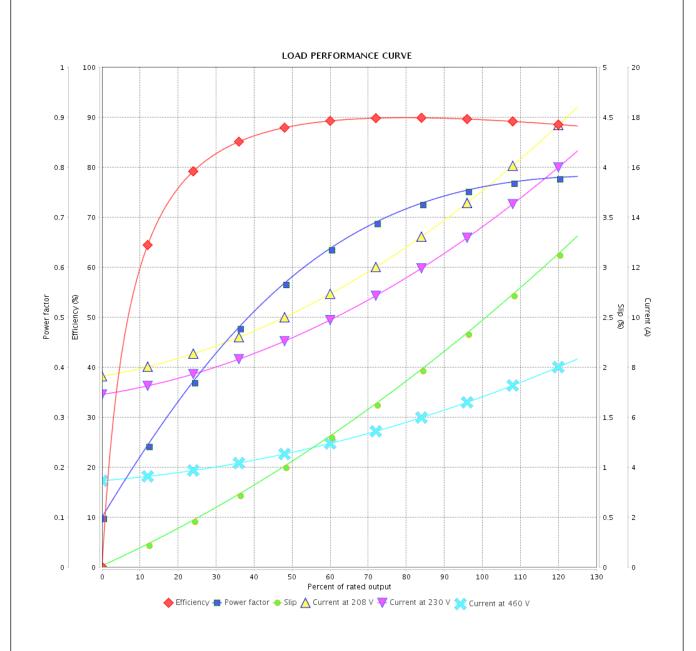


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11456699

Phase

Catalog #: 00512ET3E215T-W22



Performance : 230/460 V 60 Hz 6P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.7/6.83 A : 6.8 : 22.4 ft.lb : 170 % : 260 % : 1170 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class ctor	: 1.47 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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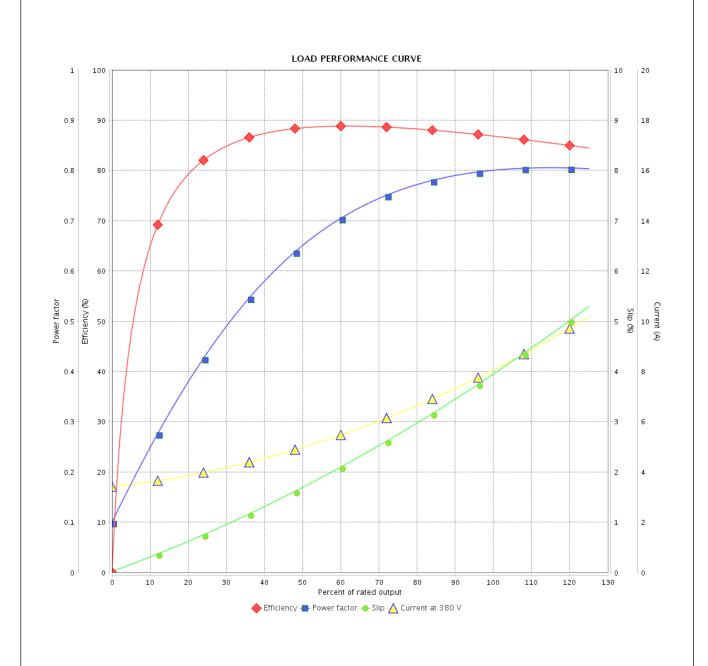
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11456699

Catalog #: 00512ET3E215T-W22



Performance	: 3	: 380 V 50 Hz 6P IE3				
Rated current		3.10 A	Moment o	f inertia (J)	: 1.47 sq.ft.lb	
LRC	: 5	5.5	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 2	27.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	140 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	200 %	Temperatu	Temperature rise		
Rated speed	: 9	960 rpm	Design		: B	
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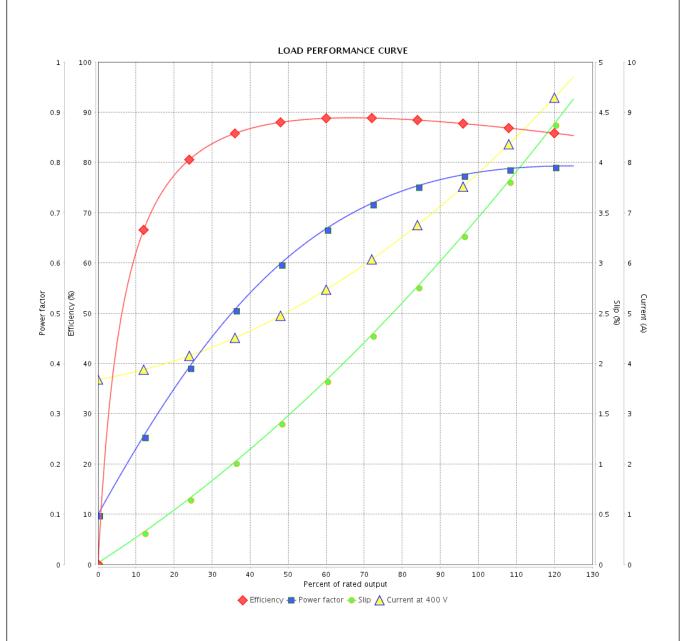
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11456699

Catalog #: 00512ET3E215T-W22



Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC	: 7.82 A : 6.1 : 27.2 ft.lb	Moment of inertia (J) Duty cycle Insulation class		: 1.47 sq.ft.lb : Cont.(S1) : F	
Rated torque : 27.2 ft.lb Insulation class Locked rotor torque : 160 % Service factor Breakdown torque : 229 % Temperature ris Rated speed : 965 rpm Design		ctor	: 1.00 : 80 K : B		
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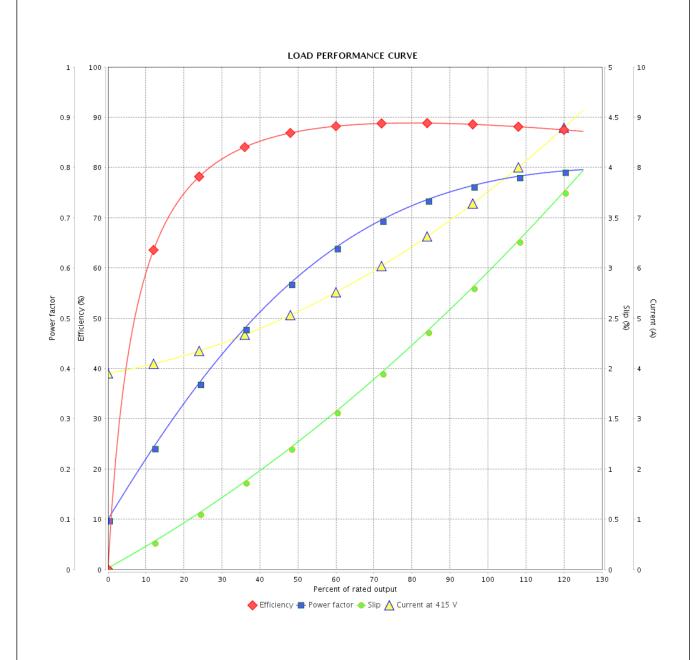


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11456699

Phase

Catalog #: 00512ET3E215T-W22



Performance	erformance : 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 7.55 A : 6.5 : 27.1 ft.lb : 190 % : 250 %	Moment of Duty cycle Insulation of Service fact Temperatur	class tor	: 1.47 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 970 rpm	Design	Dorformod	: B	Doto
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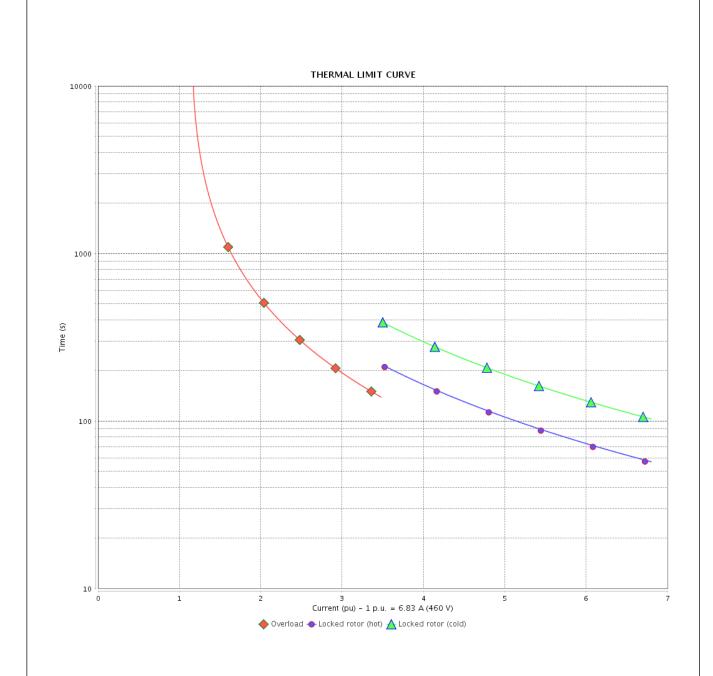


Customer	:				
Product line	: NEMA Premium Efficienc Phase		Product code : Catalog # :	11456699 00512ET3E2	15T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 230/460 V 60 Hz 6P : 13.7/6.83 A : 6.8 : 22.4 ft.lb : 170 % : 260 % : 1170 rpm	Moment of Duty cycle Insulation Service fa Temperature Design	class ctor	: 1.47 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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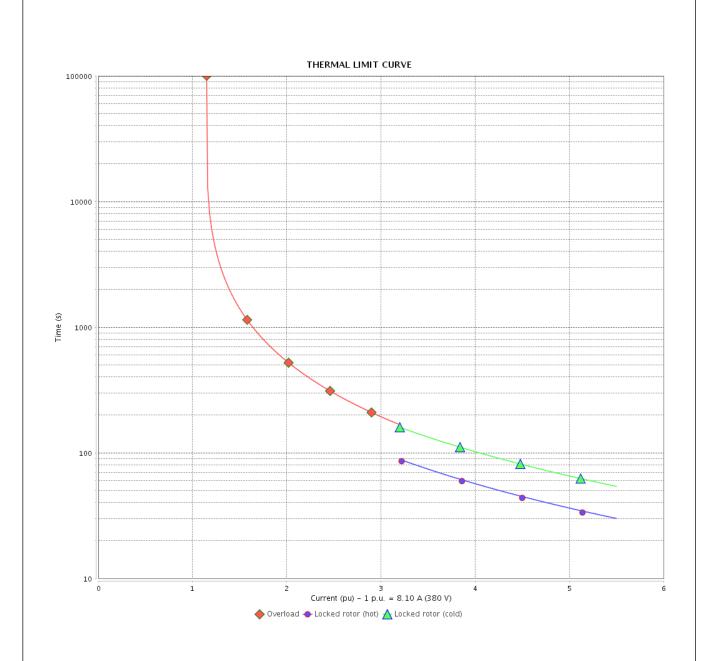


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Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	11456699 00512ET3E2	15T-W22
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Performance Rated current LRC Rated torque Locked rotor toro Breakdown torque Rated speed Heating constant Cooling constant	: : : que : : :	380 V 50 Hz 6P IE3 8.10 A 5.5 27.4 ft.lb 140 % 200 % 960 rpm  Changes Summary	Moment or Duty cycle Insulation Service fa Temperature Design	class ctor	: 1.47 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	Date
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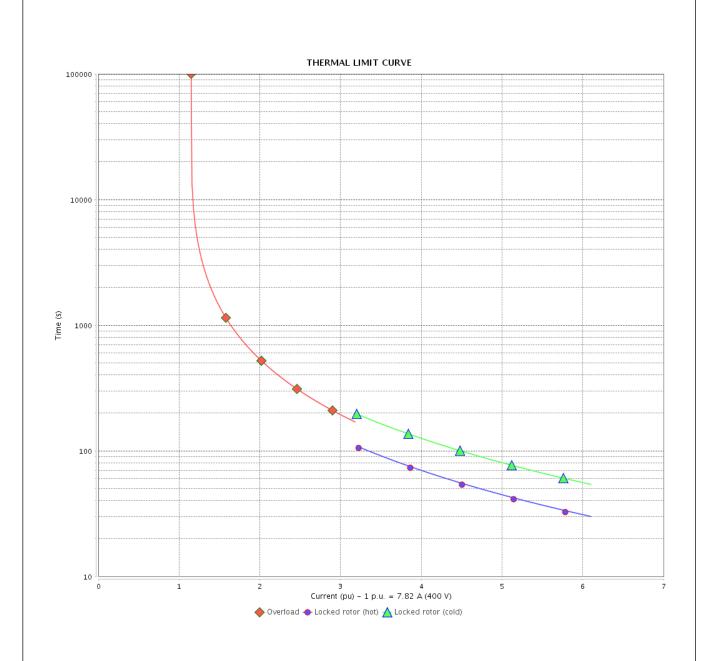


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Product line		NEMA Premium Efficiency hase		Product code :	11456699 00512ET3E2 <sup>2</sup>	15T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7. : 6. : 27 e : 16 : 22	00 V 50 Hz 6P IE3 82 A 1 7.2 ft.lb 60 % 29 % 65 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class	: 1.47 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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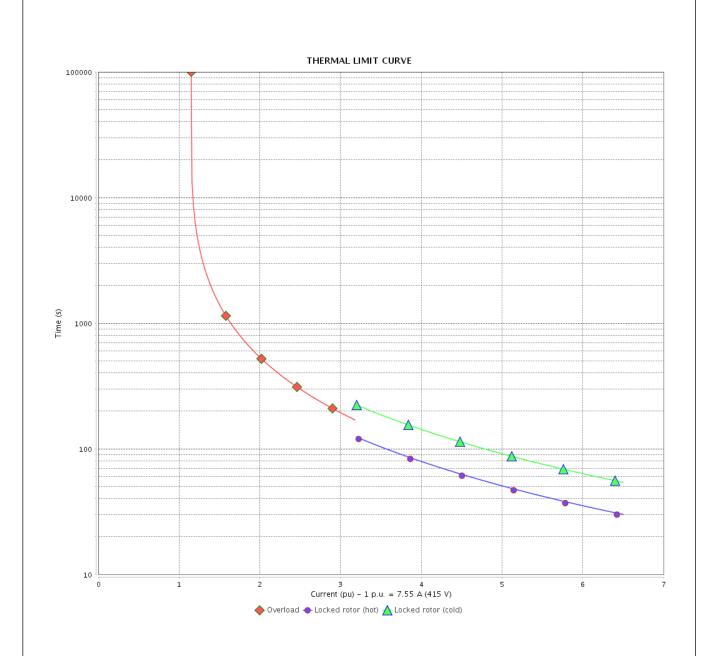


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11456699 00512ET3E2 <sup>-</sup>	5T-W22
Performance		: 415 V 50 Hz 6P IE3				
Rated current LRC		: 7.55 A : 6.5	Duty cycle		: 1.47 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 27.1 ft.lb : 190 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 250 %	Temperat		: 80 K	
Rated speed		: 970 rpm	Design		: B	
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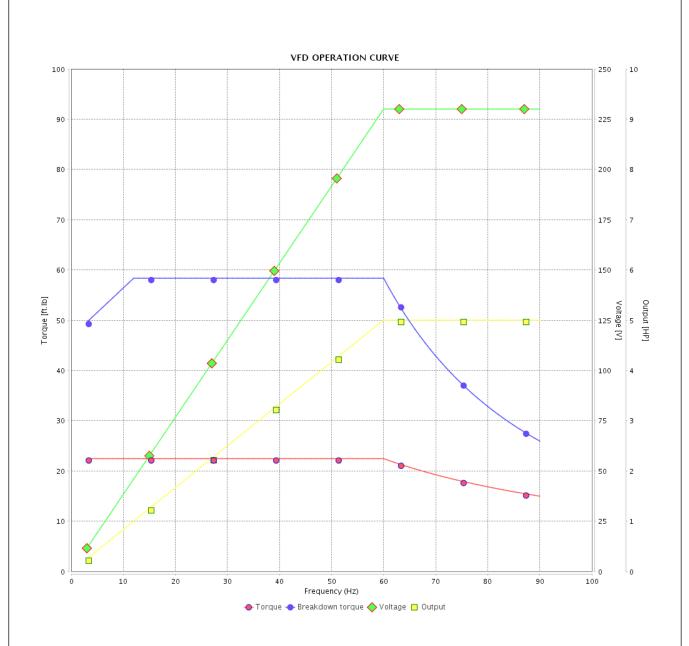
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00512ET3E215T-W22

11456699



Performance : 230/460 V 60 Hz 6P : 13.7/6.83 A Rated current Moment of inertia (J) : 1.47 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 Insulation class Rated torque : 22.4 ft.lb : F Locked rotor torque : 170 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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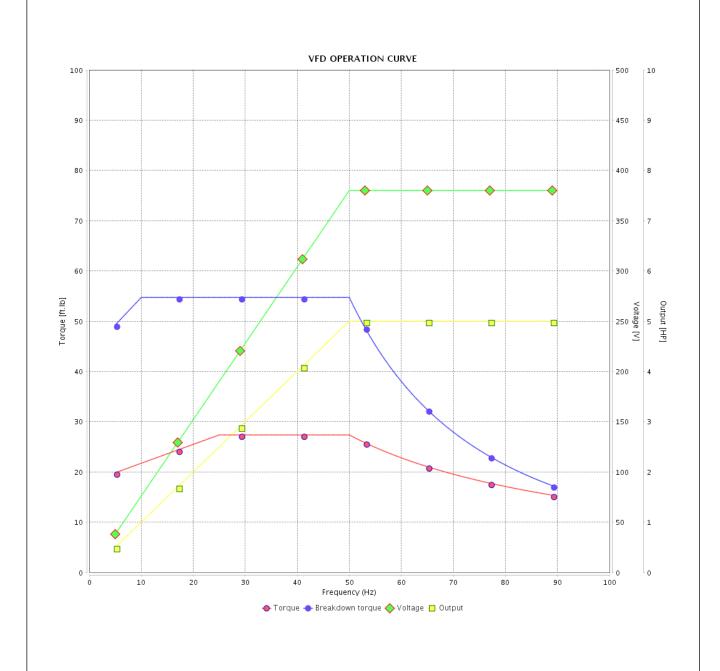


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11456699

Phase

Catalog #: 00512ET3E215T-W22



Performance	:	380 V 50 Hz 6P IE3				
Rated current : 8.10 A		8.10 A	Moment o	Moment of inertia (J)		
LRC	:	5.5	Duty cycle	;	: Cont.(S1)	
Rated torque	:	27.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie :	140 %	Service fa	ctor	: 1.00	
Breakdown torque	:	200 %	Temperati	Temperature rise		
Rated speed	:	960 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three-

Phase

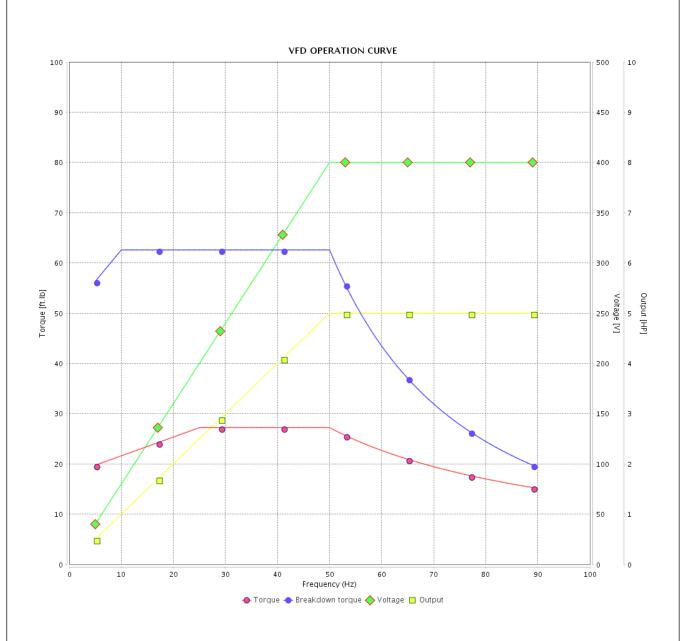
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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.82 A : 6.1 : 27.2 ft.lb : 160 % : 229 % : 965 rpm	Moment of inertia (J) : 1.47 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.00  Temperature rise : 80 K  Design : B			
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#### Three Phase Induction Motor - Squirrel Cage

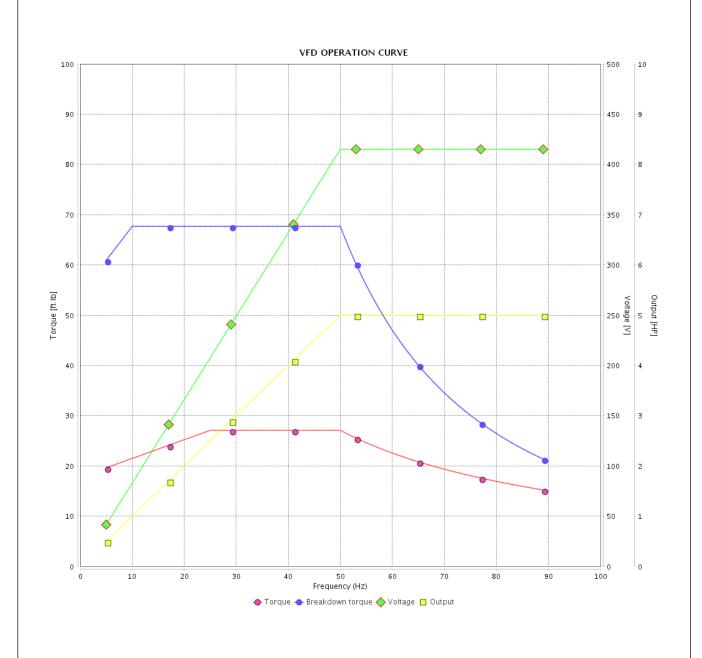


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11456699

Phase

Catalog #: 00512ET3E215T-W22



Performance	. 1	15 V 50 Hz 6P IE3				
Rated current	: 7.	.55 A	Moment o	f inertia (J)	: 1.47 sq.ft.lb	
LRC	: 6	.5	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 2	7.1 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 19	90 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	50 %	6 Temperature rise		: 80 K	
		70 rpm	Design		: B	
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