DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12821976

Phase

Catalog #: 00512ET3ER215TC-W22

Frame : 215TC Cooling method : IC411 - TEFC

Insulation class : F Mounting : W-6

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

Protection degree		: IP55	IP55 Moment of inertia (J) : 1.47 sq.ft.lb		
Design		: B			
Output [HP]	Output [HP]		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	/ []	1170	960	965	970
Slip [%]		2.50	4.00	3.50	3.00
Rated torque [ft.lb]]	22.4	27.4	27.2	27.1
Locked rotor torqu	Locked rotor torque [%]		140	160	190
Breakdown torque	Breakdown torque [%]		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 ²		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 : 296 lb Sealing : V'Ring V'Ring Max. compression : 467 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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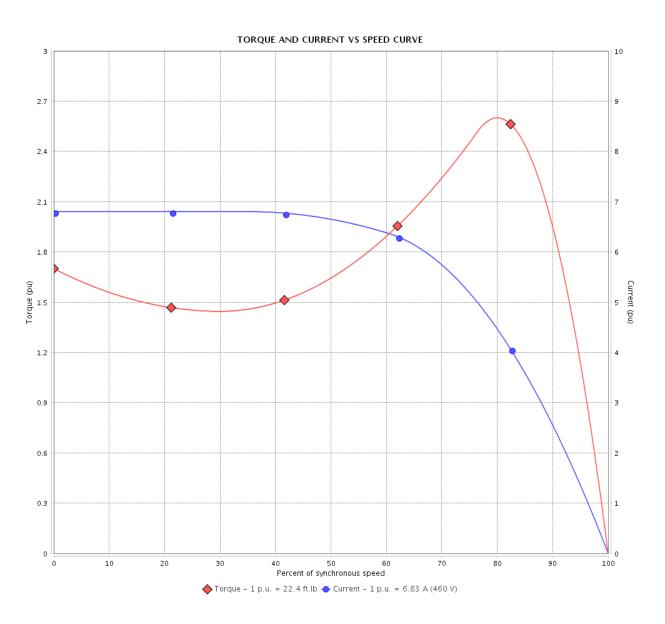


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12821976

Phase

Catalog #: 00512ET3ER215TC-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 Locked rotor torque : 170 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B

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

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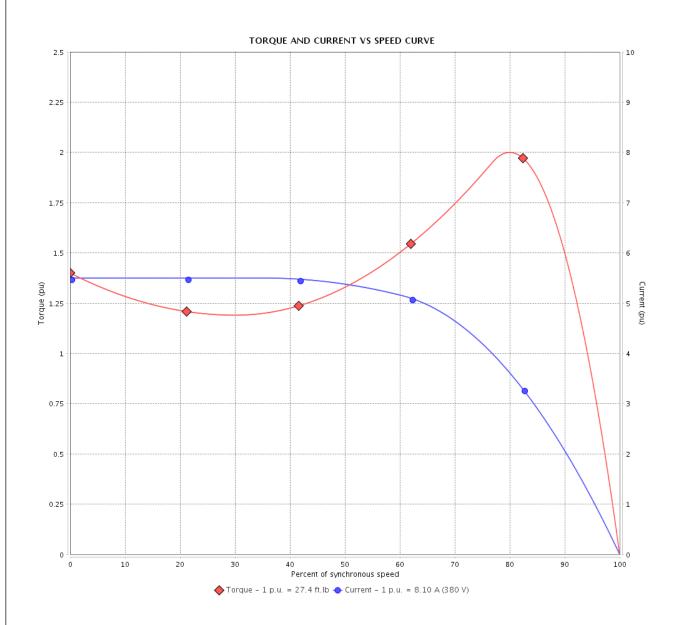
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12821976

Catalog #: 00512ET3ER215TC-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
Locked rotor torque	: 140 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 960 rpm	Design	: B
Locked rotor time	: 54s (cold) 30s (hot)		

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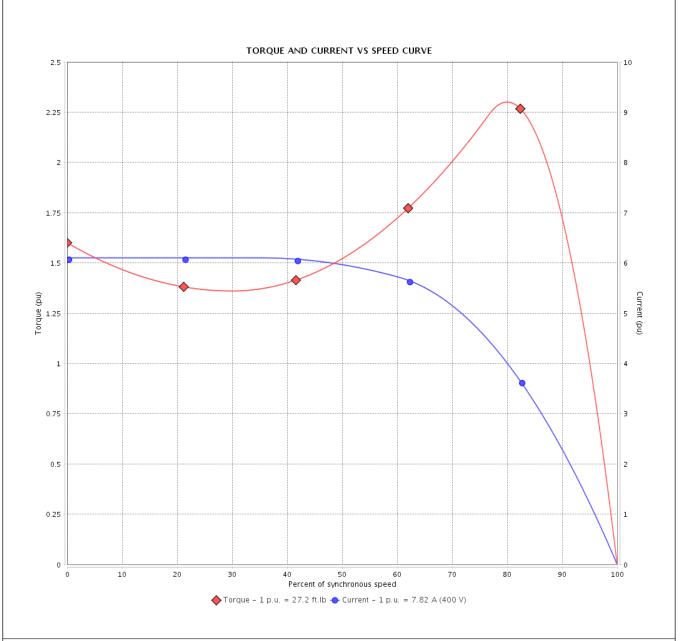
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12821976

Catalog #: 00512ET3ER215TC-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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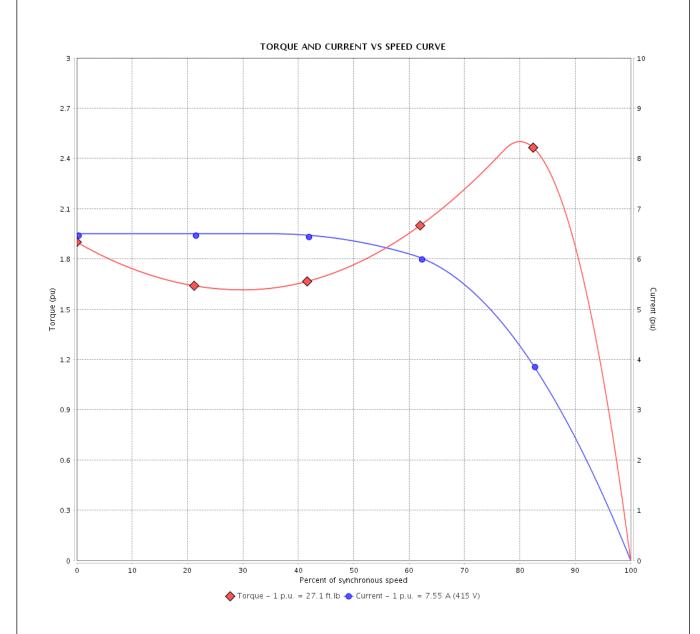
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Customer :

Product line : NEMA Premium Efficiency Three-Phase : NEMA Premium Efficiency Three-Phase : 12821976

Catalog # : 00512ET3ER215TC-W22



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)

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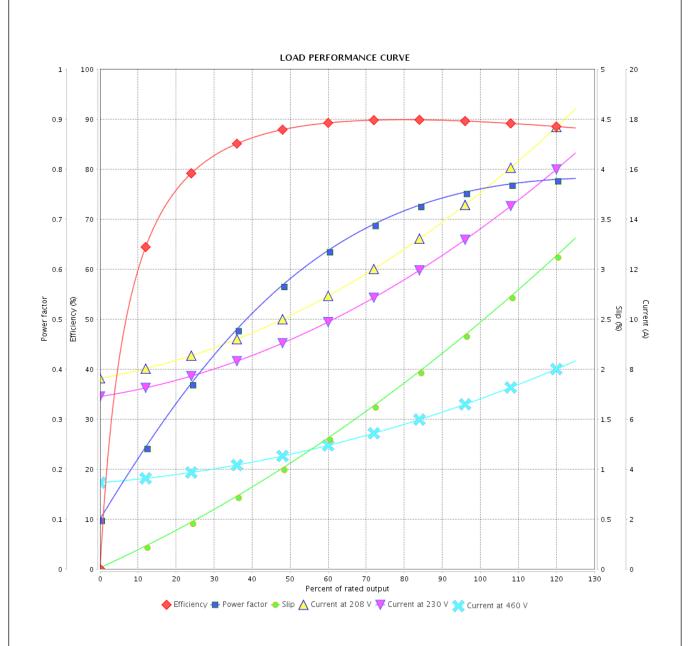
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Product line : NEMA Premium Efficiency Three- Product code : 12821976

Phase

Catalog #: 00512ET3ER215TC-W22



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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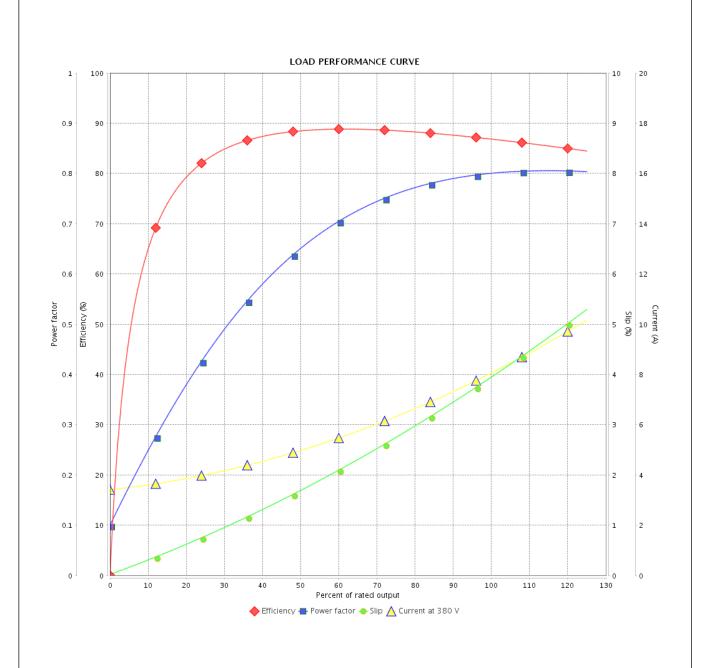


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12821976

Phase

Catalog #: 00512ET3ER215TC-W22



Performance	: 3	380 V 50 Hz 6P IE3				
Rated current	ated current : 8.10 A		Moment o	f inertia (J)	: 1.47 sq.ft.lb	
LRC	: 5	5.5	Duty cycle	}	: Cont.(S1)	
Rated torque		27.4 ft.lb	Insulation	class	: F	
Locked rotor torque		140 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	200 %	Temperatu	Temperature rise		
Rated speed	: 9	960 rpm	Design		: B	
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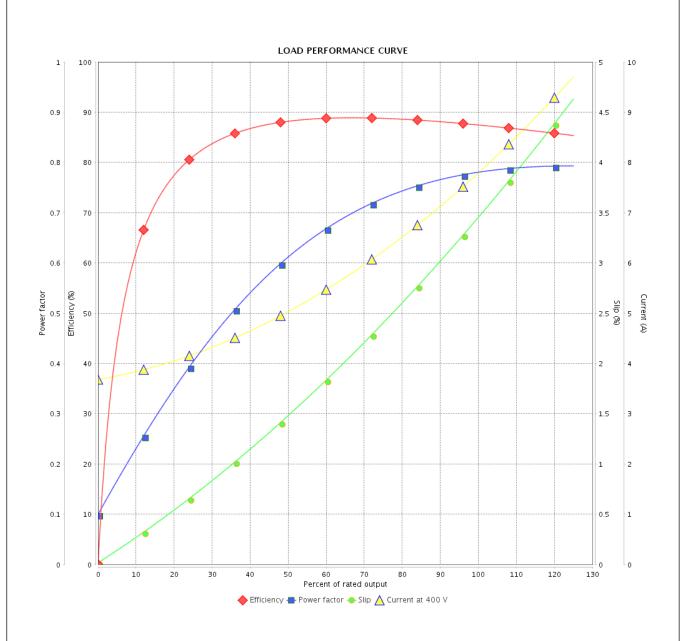
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: 7.82 A : 6.1 : 27.2 ft.lb : 160 %	Duty cycle Insulation Service fa	class	: 1.47 sq.ft.lb : Cont.(S1) : F : 1.00	
: 27.2 ft.lb : 160 %	Insulation Service fa	class	: F	
: 160 %	Service fa			
		actor	: 1.00	
	l <u> </u>			
229 % Temperature rise		ure rise	: 80 K	
: 965 rpm	Design		: B	
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	: 965 rpm	: 965 rpm Design	: 965 rpm Design	: 965 rpm Design : B

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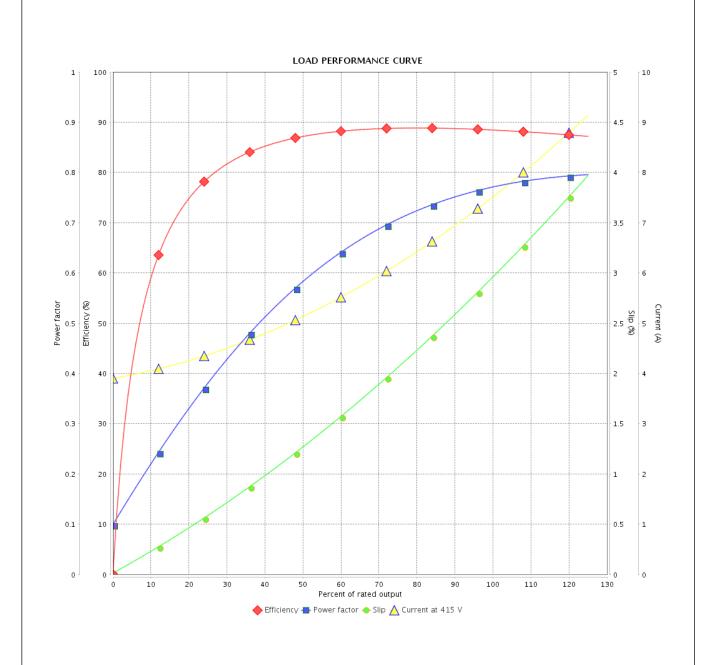
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12821976

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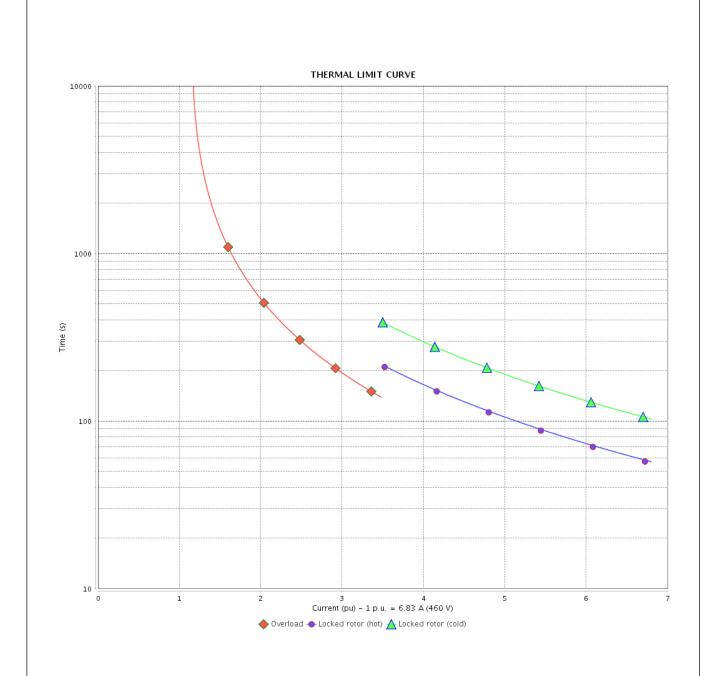


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Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12821976 00512ET3ER	215TC-W22
			~		
Performance	: 230/460 V 60 Hz 6P : 13.7/6.83 A	Momento	finartia (I)	: 1 47 og ft lb	
Rated current LRC	: 6.8	Duty cycle	of inertia (J)	: 1.47 sq.ft.lb : Cont.(S1)	
Rated torque	: 22.4 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 170 % : 260 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed	: 1170 rpm	Design		: B	
Heating constant					
Cooling constant			,		
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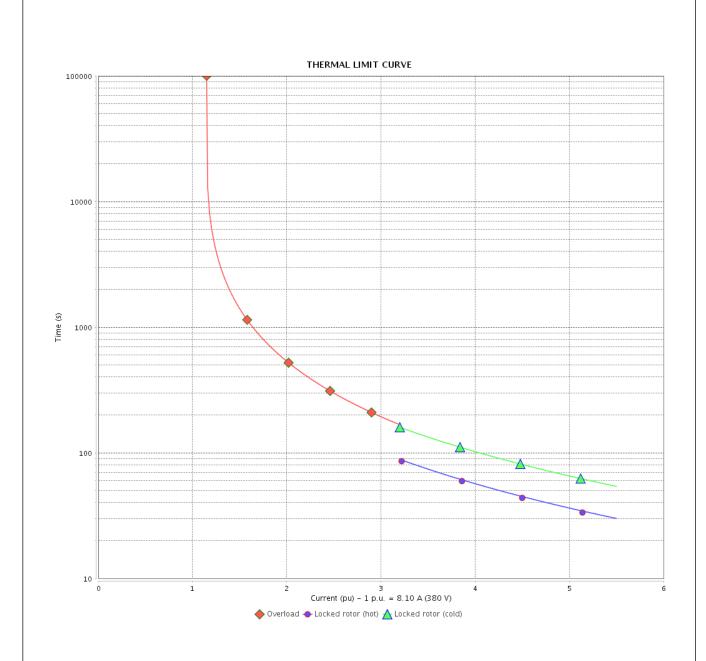


Customer		:				
Product line		: NEMA Premium Efficiency [*] Phase		Product code : Catalog # :	12821976 00512ET3ER2	215TC-W22
Performance	:	380 V 50 Hz 6P IE3				
Rated current LRC Rated torque		8.10 A 5.5 27.4 ft.lb	Moment o Duty cycle Insulation		: 1.47 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	que :	140 % 200 % 960 rpm	Service fa Temperati Design	ctor	: 1.00 : 80 K : B	
Heating constan	t	•				
Cooling constant		Changes Summary		Performed	Checked	Date
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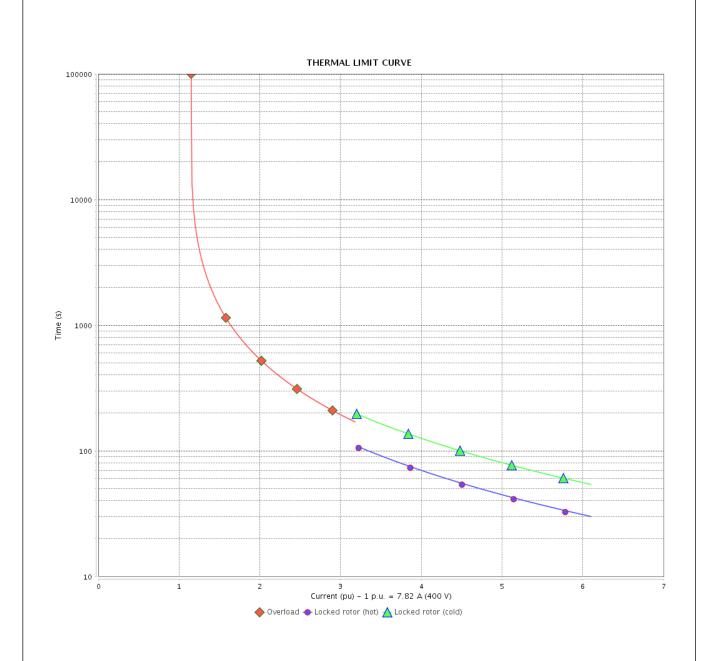


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- Justomer	•				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	12821976	
	i ilasc		Catalog # :	00512ET3ER	215TC-W22
Performance	: 400 V 50 Hz 6P IE3		61	4.47 6.11	
Rated current LRC	: 7.82 A : 6.1	Moment o Duty cycle	f inertia (J)	: 1.47 sq.ft.lb : Cont.(S1)	
Rated torque	: 27.2 ft.lb	Insulation	class	: F	
Locked rotor torque	: 160 %	Service fa		: 1.00	
Breakdown torque Rated speed	: 229 % : 965 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant					
Cooling constant					
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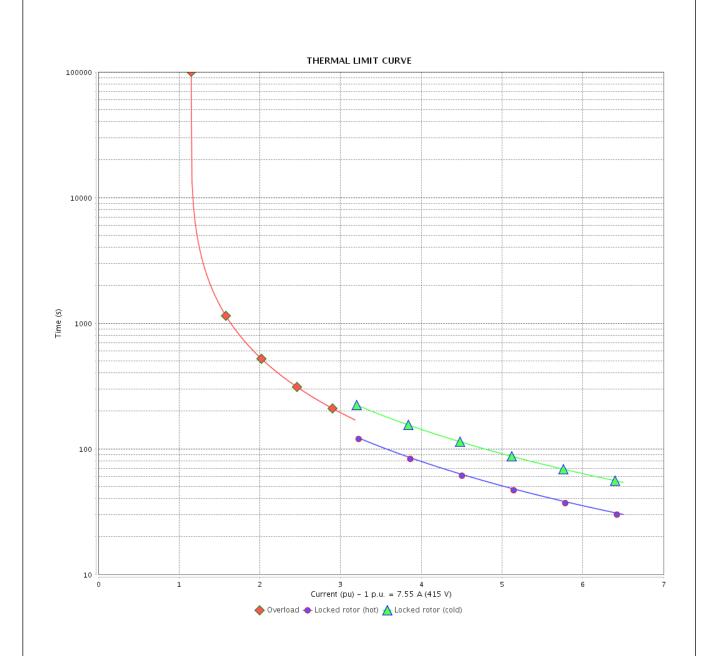


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	•					
Product line	: N	NEMA Premium Efficiency T	「hree- I	Product code :	12821976	
		1830	(Catalog # :	00512ET3ER	215TC-W22
Performance		5 V 50 Hz 6P IE3		<u> </u>		
Rated current LRC	: 7.: : 6.:	55 A 5	Moment of Duty cycle	f inertia (J)	: 1.47 sq.ft.lb : Cont.(S1)	
Rated torque	: 27	7.1 ft.lb	Insulation	class	: F	
Locked rotor torq		90 %	Service fac		: 1.00	
Breakdown torqu Rated speed		50 % '0 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant						
Cooling constant						
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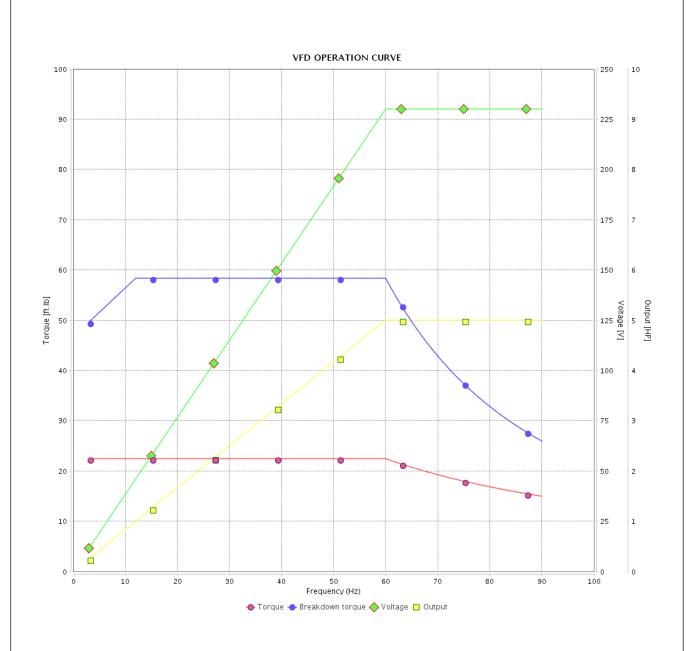
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12821976

Phase

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Performance	: 23	30/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 22 que : 17 ue : 26	3.7/6.83 A 8 2.4 ft.lb 70 % 60 % 170 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.47 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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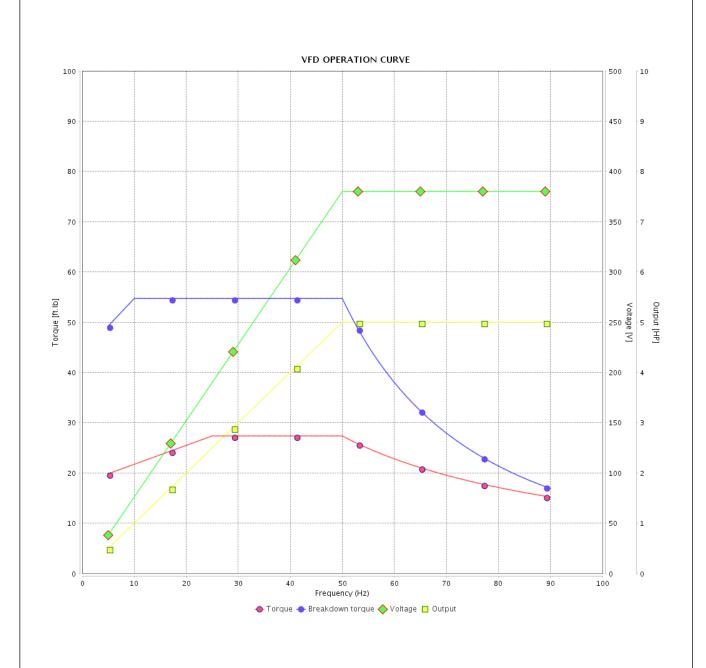
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 12821976

Catalog #: 00512ET3ER215TC-W22



Performance	: 38	80 V 50 Hz 6P IE3	}			
Rated current	: 8.	10 A	0 A Moment of inertia (J)		: 1.47 sq.ft.lb	
LRC	: 5.	.5	Duty cycle	Duty cycle		
Rated torque	: 2	7.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 14	40 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 20	00 %	Temperati	Temperature rise		
Rated speed	: 90	60 rpm	Design		: B	
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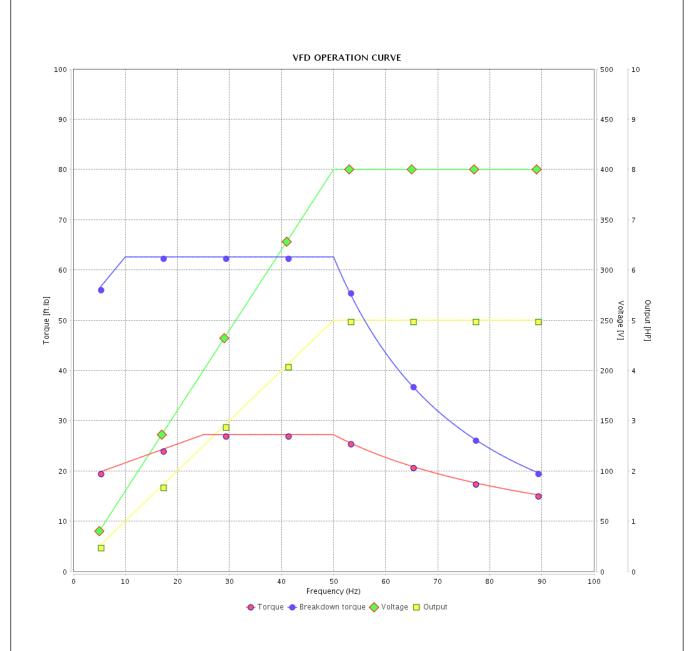
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Performance		: 400 V 50 Hz 6P	IE3		•	
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 7.82 A : 6.1 : 27.2 ft.lb : 160 % : 229 % : 965 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 1.47 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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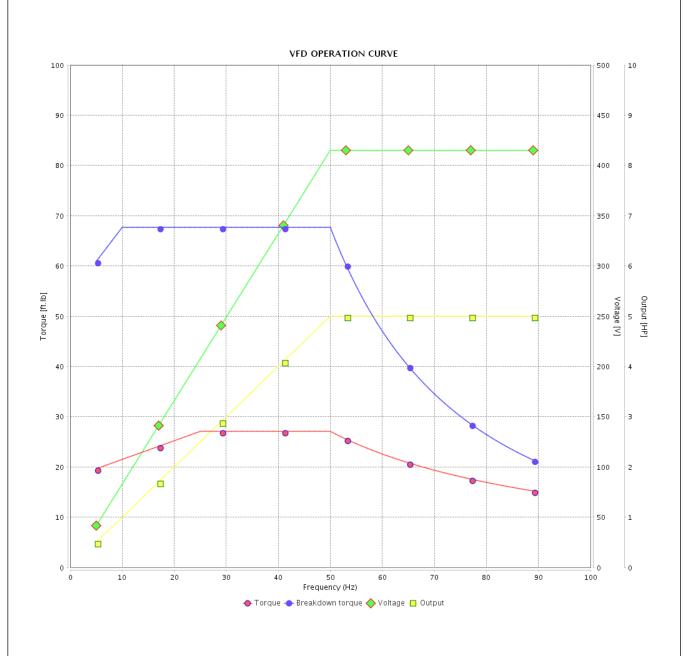
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12821976

Phase

Catalog #: 00512ET3ER215TC-W22

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