### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12789604

Phase

Catalog #: 00718ET3ER213TC-W22

Frame : 213TC Cooling method : IC411 - TEFC

Insulation class : F Mounting : W-6

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 : 158 lb
Protection degree : IP55 Moment of inertia (J) : 1.34 sq.ft.lb

Design	G	: B	Moment of mertia (5)				
Output [HP]		7.5	7.5	7.5	7.5		
Poles		4	4	4	4		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		230/460	380	400	415		
Rated current [A]		18.4/9.18	11.0	10.5	10.3		
L. R. Amperes [A]		130/65.2	61.6	65.1	69.0		
LRC [A]		7.1x(Code H)	5.6x(Code F)	6.2x(Code G)	6.7x(Code H)		
No load current [A]	]	8.80/4.40	4.00	4.30	4.55		
Rated speed [RPM	1]	1765	1455	1460	1460		
Slip [%]		1.94	3.00	2.67	2.67		
Rated torque [ft.lb]		22.3	27.1	27.0	27.0		
Locked rotor torqu		220	170	190	210		
Breakdown torque	[%]	310	240	270	290		
Service factor		1.25	1.25	1.25	1.25		
Temperature rise		80 K	80 K	80 K	80 K		
Locked rotor time		36s (cold) 20s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)		
Noise level <sup>2</sup>		58.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)		
	25%	88.6	89.2	89.2	89.2		
Efficiency (%)	50%	89.5	89.5	89.5	89.5		
Lincicity (70)	75%	91.0	89.5	90.2	90.2		
100%		91.7	89.6	90.2	90.2		
	25%	0.40	0.47	0.43	0.41		
Power Factor	50%	0.66	0.72	0.69	0.66		
1 OWCI I actor	75%	0.76	0.81	0.78	0.76		
	100%	0.82	0.85	0.84	0.82		

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

Bearing type : 6308 ZZ 6207 ZZ Max. traction : 362 lb Sealing : V'Ring V'Ring Max. compression : 520 lb

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

Notes

USABLE @208V 19.9A SF 1.15 SFA 22.9A

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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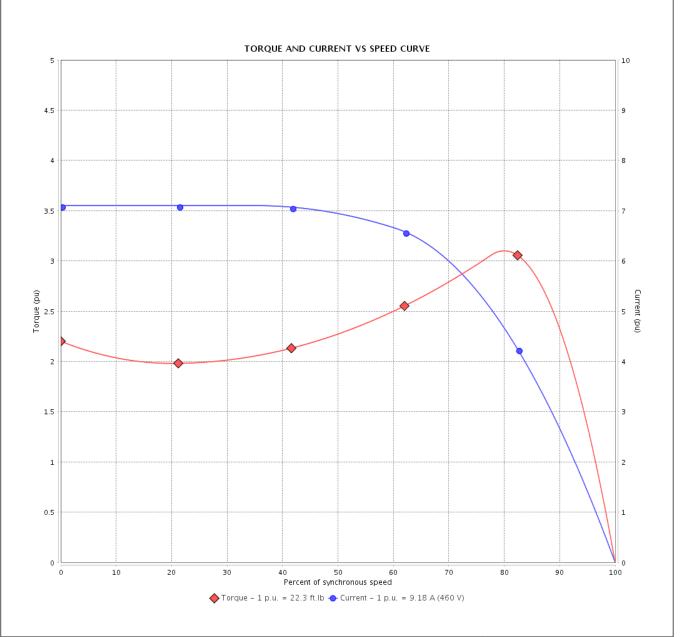


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12789604

Phase

Catalog #: 00718ET3ER213TC-W22



Performance : 230/460 V 60 Hz 4P Rated current : 18.4/9.18 A Moment of inertia (J) : 1.34 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : 22.3 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

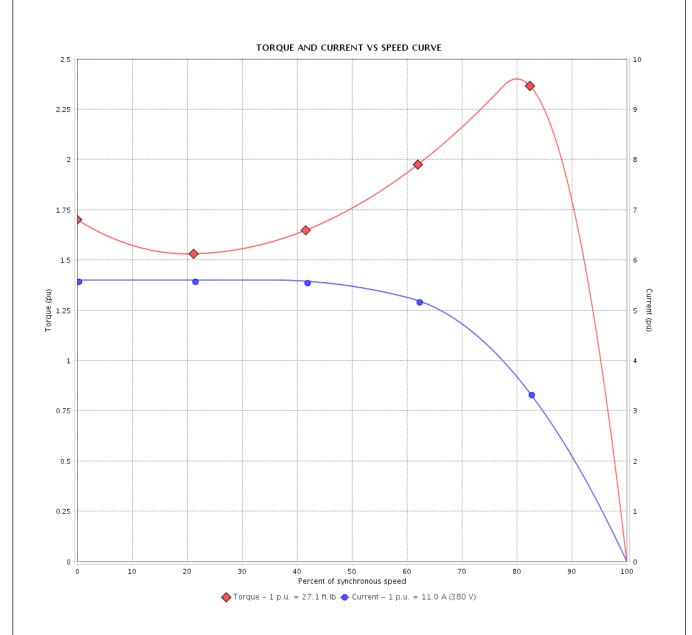
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Product code : 12789604
Phase Catalog # : 00718ET3ER213TC-W22



Performance : 380 V 50 Hz 4P IE3 Rated current : 11.0 A Moment of inertia (J) : 1.34 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) : 27.1 ft.lb Insulation class : F Rated torque Locked rotor torque : 170 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Locked rotor time : 27s (cold) 15s (hot)

#### Three Phase Induction Motor - Squirrel Cage

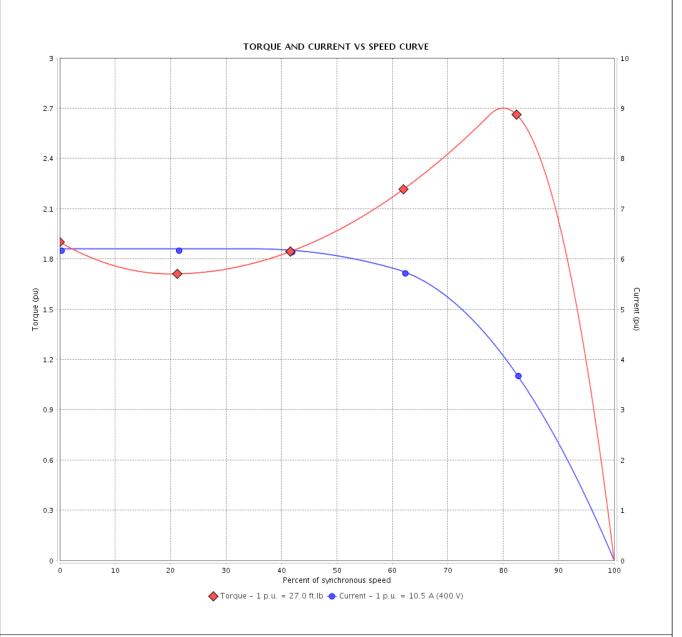


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12789604

Phase

Catalog #: 00718ET3ER213TC-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 10.5 A Moment of inertia (J) : 1.34 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 27.0 ft.lb : F Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12789604 Catalog #: 00718ET3ER213TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 27.0 ft.lb ◆ Current - 1 p.u. = 10.3 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 10.3 A Moment of inertia (J) : 1.34 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 27.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Rev. Performed Checked Date **Changes Summary** 

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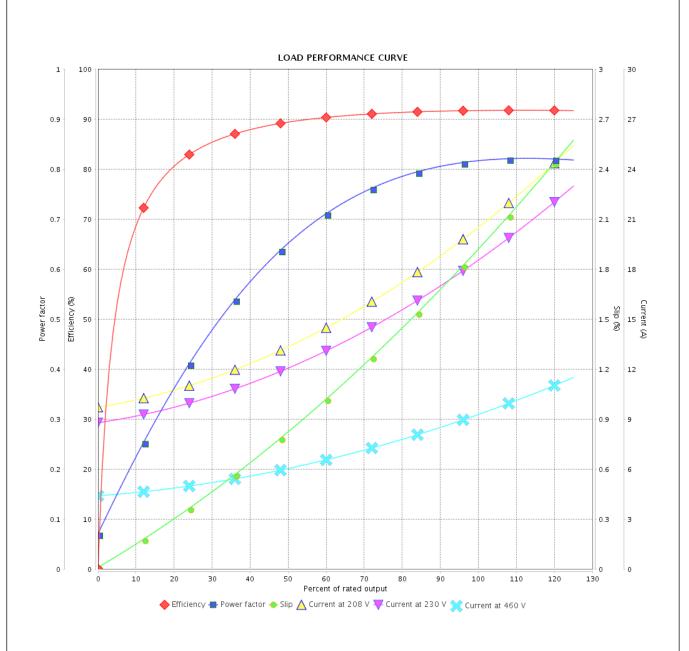
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00718ET3ER213TC-W22

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12789604



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC	: 18.4/9.18 A : 7.1	Moment of Duty cycle	. ,	: 1.34 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque Breakdown torque	: 22.3 ft.lb : 220 % : 310 %	Insulation of Service factors	ctor	: F : 1.25 : 80 K : B	
Rated speed  Rev.	: 1765 rpm  Changes Summary	Design	Performed	Checked	Date
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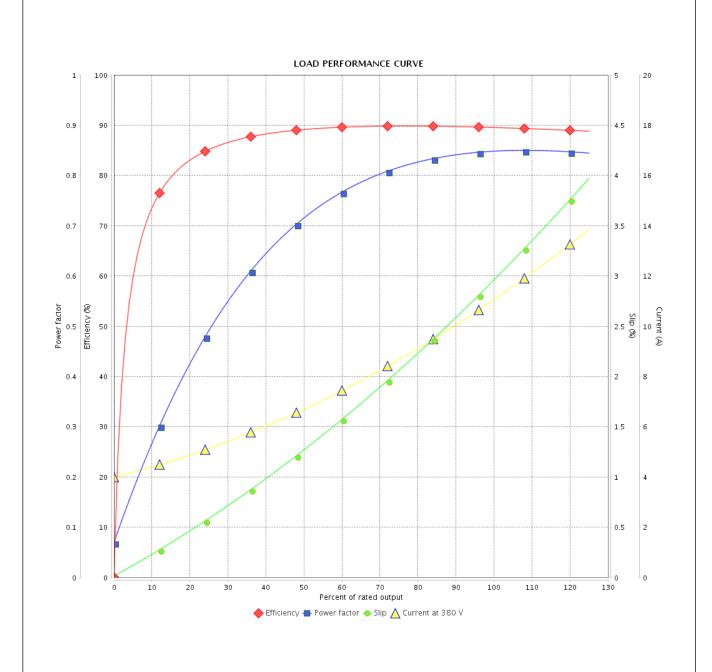
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12789604

00718ET3ER213TC-W22 Catalog #:



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 1	1.0 A	Moment o	f inertia (J)	: 1.34 sq.ft.lb	
LRC	: 5	5.6	Duty cycle	)	: Cont.(S1)	
Rated torque	: 2	7.1 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :1	70 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	40 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	455 rpm	Design		: B	
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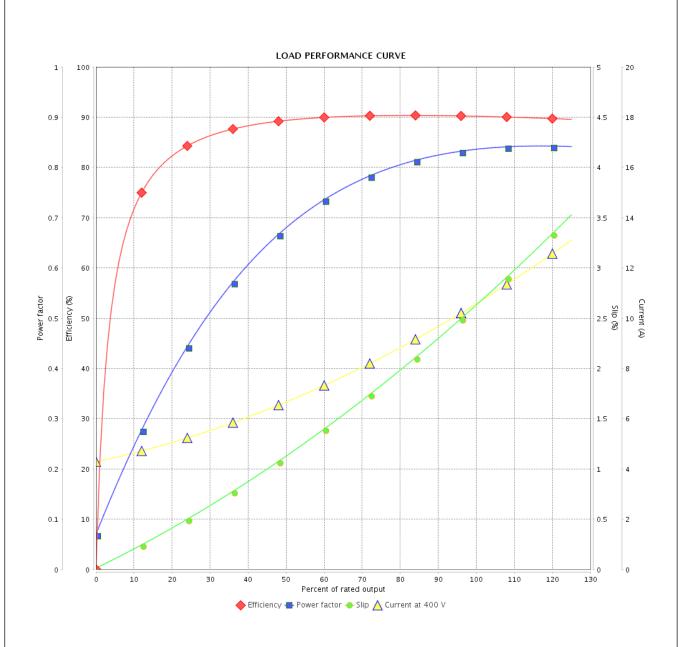
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Performance	:	400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	10.5 A 6.2 27.0 ft.lb 190 % 270 % 1460 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.34 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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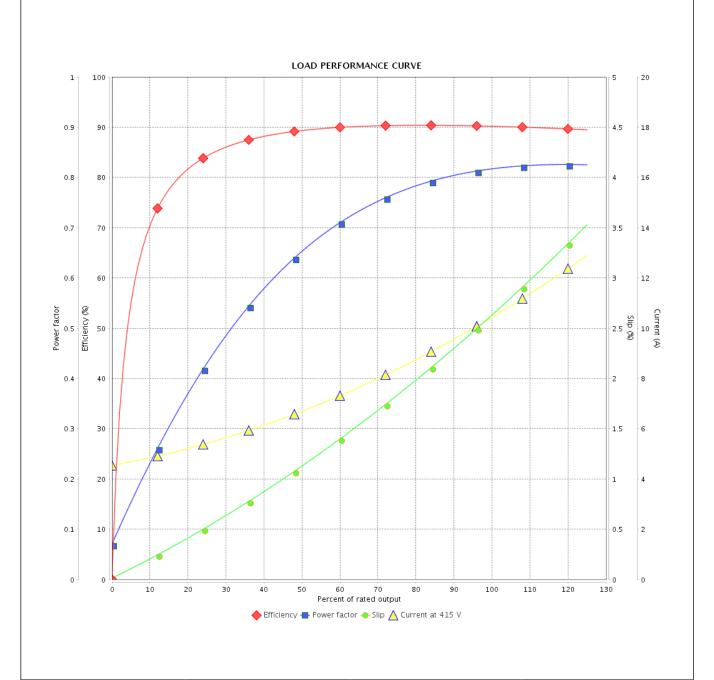


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12789604

Phase

Catalog #: 00718ET3ER213TC-W22



Performance	:	415 V 50 Hz 4P IE3				
Rated current	:	10.3 A	Moment o	f inertia (J)	: 1.34 sq.ft.lb	
LRC	:	6.7	Duty cycle	; · ·	: Cont.(S1)	
Rated torque	:	27.0 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie :	210 %	Service fa	ctor	: 1.25	
Breakdown torque	e :	290 %	Temperati	ure rise	: 80 K	
Rated speed	:	1460 rpm	Design		: B	
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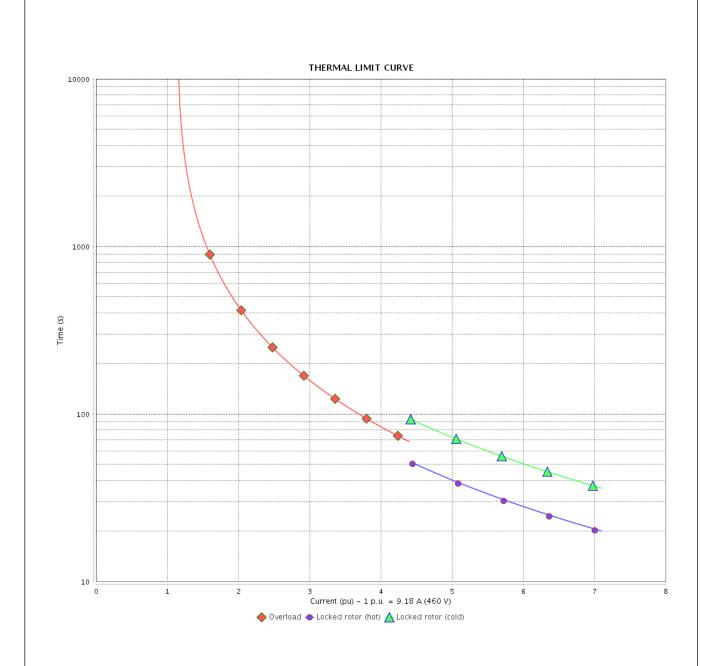


Customer	:				
Product line	: NEMA Premium Efficienc Phase		Product code : Catalog # :	12789604 00718ET3EF	2213TC-W22
Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque	: 18.4/9.18 A : 7.1 : 22.3 ft.lb	Moment of Duty cycle Insulation	of inertia (J) e class	: 1.34 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque	: 220 % : 310 %	Service fa Temperati		: 1.25 : 80 K	
Rated speed	: 1765 rpm	Design		: B	
Heating constant Cooling constant					
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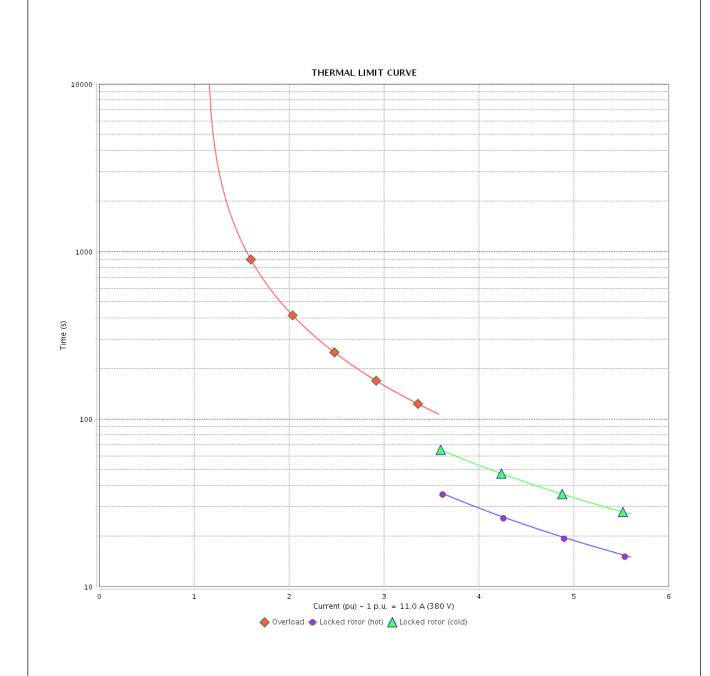


Customer		:				
Product line		: NEMA Premium Efficiency <sup>*</sup> Phase		Product code : Catalog # :	12789604 00718ET3EF	R213TC-W22
				Salaiog # .	007 102 1321	AZ TOTO-WZZ
Performance Rated current LRC Rated torque Locked rotor torque Rated speed Heating constant Cooling constant Rev.	: : : : : : : : : : :	380 V 50 Hz 4P IE3  11.0 A 5.6 27.1 ft.lb 170 % 240 % 1455 rpm  Changes Summary	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.34 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	Date
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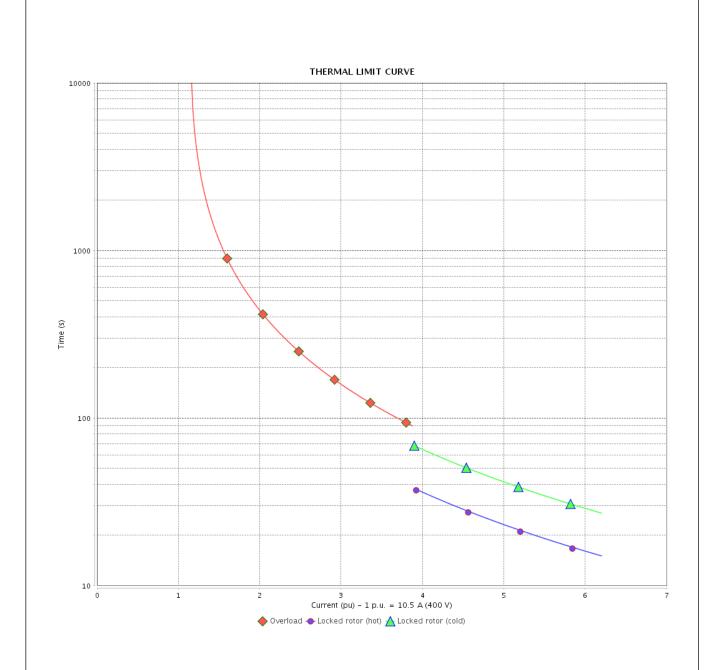


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Product line		NEMA Premium Efficiency	Three-	Product code :	12789604	
	PI	hase		Catalog # :	00718ET3ER	213TC-W22
Performance	: 40	00 V 50 Hz 4P IE3				
Rated current LRC	: 6.		Duty cycle	f inertia (J)	: 1.34 sq.ft.lb : Cont.(S1)	
Rated torque		7.0 ft.lb 90 %	Insulation Service fa		: F : 1.25	
Locked rotor torque Breakdown torque		90 % 70 %	Temperatu		: 1.25 : 80 K	
Rated speed		160 rpm	Design	<del></del>	: B	
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Cooling constant		Changes Summani		Dorformad	Chaokad	Doto
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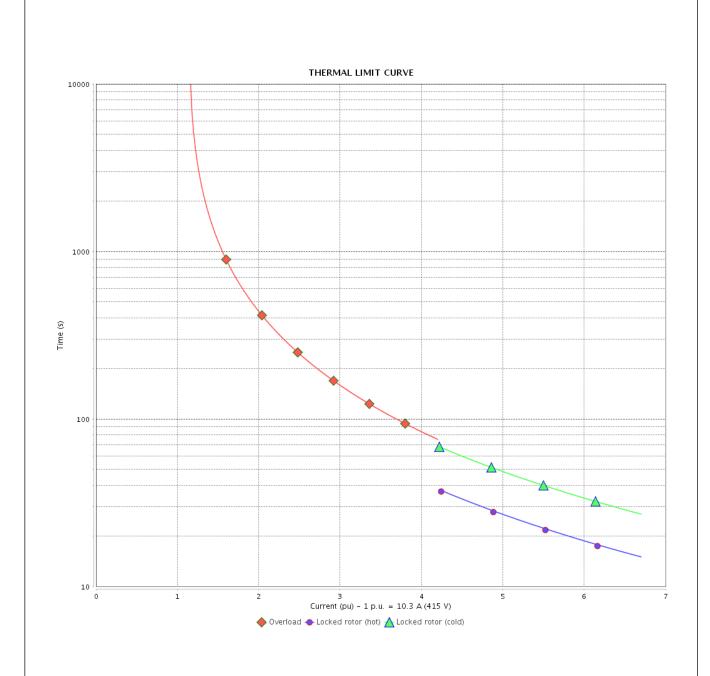


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Product line	: NEMA Premium Efficiency Phase		12789604	204070 W00
		Catalog # :	00718ET3EF	R2131C-W22
Performance	: 415 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.3 A : 6.7 : 27.0 ft.lb : 210 % : 290 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.34 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Heating constant Cooling constant				
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Date

Product line : NEMA Premium Efficiency Three-

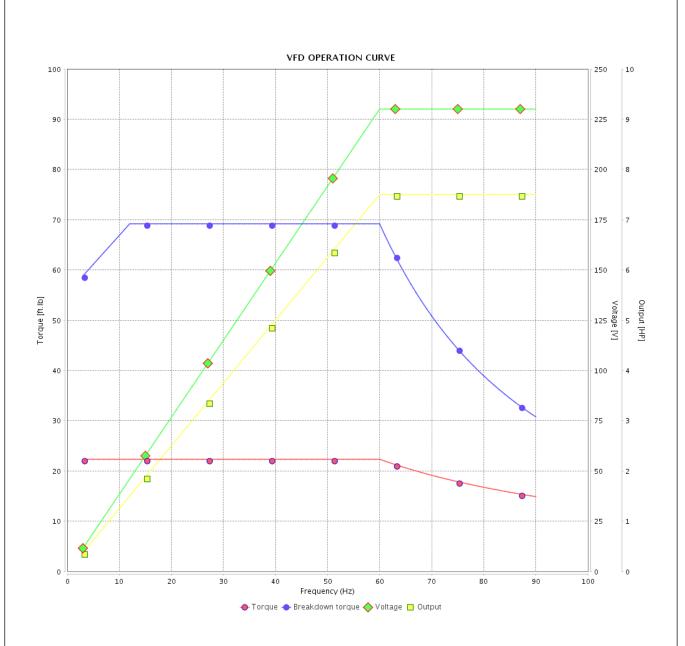
Phase

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Performance : 230/460 V 60 Hz 4P : 18.4/9.18 A Rated current Moment of inertia (J) : 1.34 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : 22.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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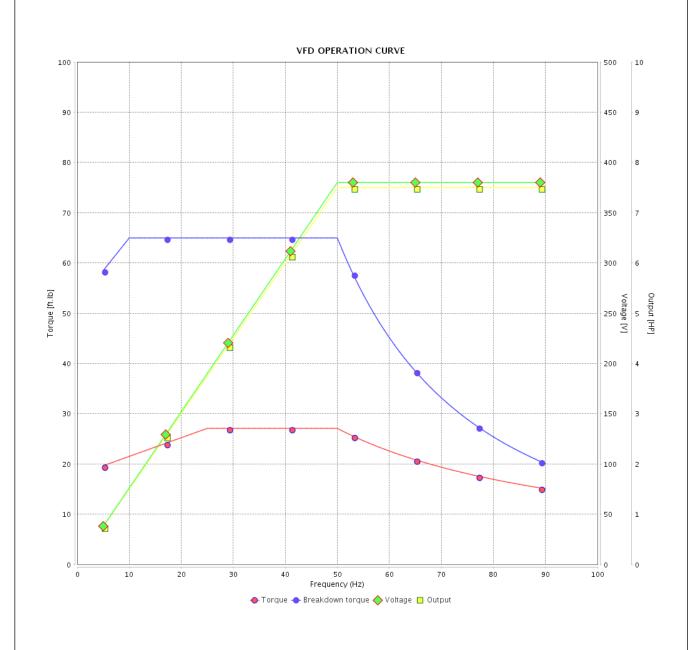
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12789604

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: 380 V 50 Hz 4P IE3 Performance : 11.0 A Rated current Moment of inertia (J) : 1.34 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) : 27.1 ft.lb Insulation class : F Rated torque Locked rotor torque : 170 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B

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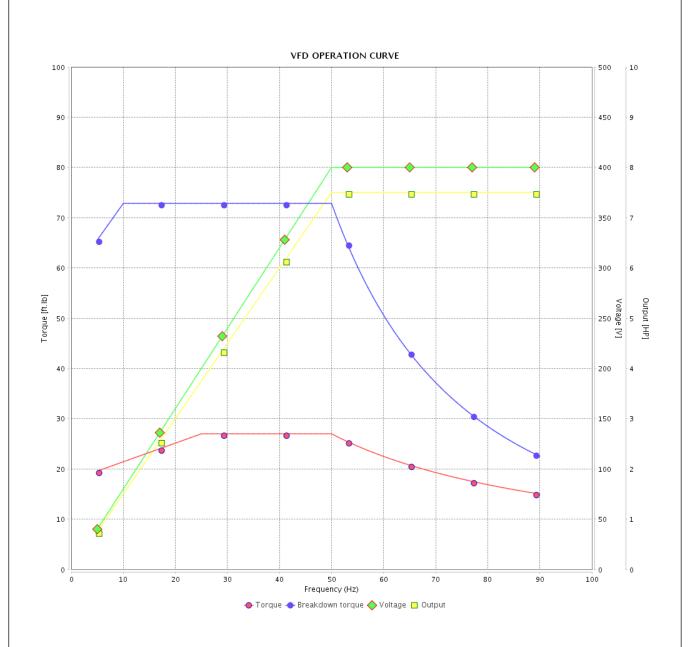
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Product line : NEMA Premium Efficiency Three- Product code :

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Product code: 12789604

Catalog #: 00718ET3ER213TC-W22



Performance : 400 V 50 Hz 4P IE3 : 10.5 A Rated current Moment of inertia (J) : 1.34 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 27.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B

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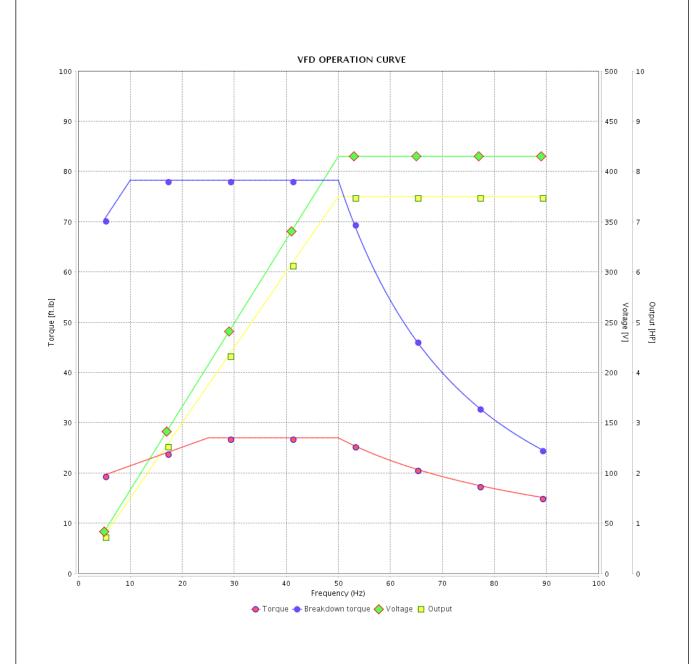
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Phase

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.3 A : 6.7 : 27.0 ft.lb : 210 % : 290 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.34 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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