#### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 127896

Phase

Catalog #: 00718ET3ER213TC-W22

Frame : 213TC 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

Ambient temperature : -20°C to +40°C Starting method : Direct On Line
Altitude : 1000 m.a.s.l. Approx. weight³ : 158 lb

Altitude : 1000 m.a.s.l. Approx. weight³ : 158 lb
Protection degree : IP55 Moment of inertia (J) : 1.34 sq.ft.lb

Design : B Output [HP] 7.5 7.5 7.5 7.5 Poles 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 5.6x(Code F) 6.2x(Code G) 6.7x(Code H) LRC [A] 7.1x(Code H) No load current [A] 8.80/4.40 4.00 4.30 4.55 Rated speed [RPM] 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 torque [%] 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 50% 89.5 89.5 89.5 89.5 Efficiency (%) 75% 90.2 90.2 91.0 89.5 90.2 100% 91.7 89.6 90.2 0.43 0.41 25% 0.40 0.47 50% 0.72 0.66 0.66 0.69 Power Factor 0.76 75% 0.76 0.81 0.78 100% 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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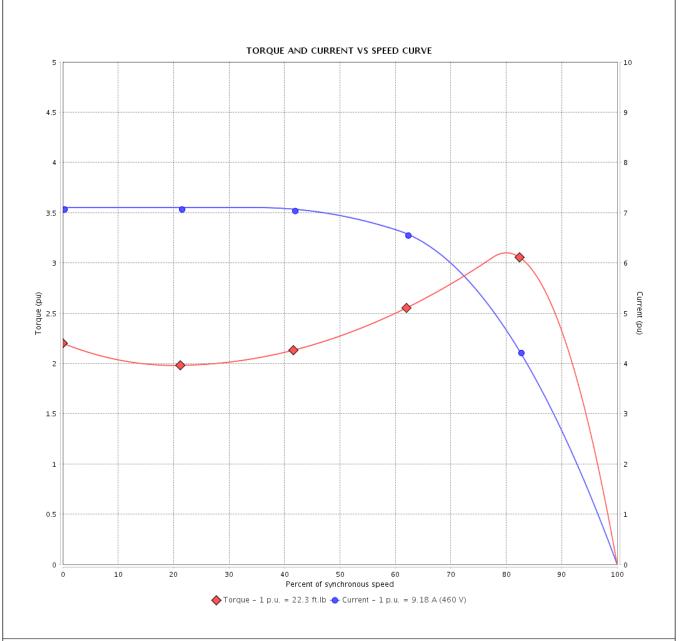
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12789604

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 Catalog #: 00718ET3ER213TC-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. = 27.1 ft.lb ◆ Current - 1 p.u. = 11.0 A (380 V) 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) Date Rev. Performed Checked **Changes Summary** 

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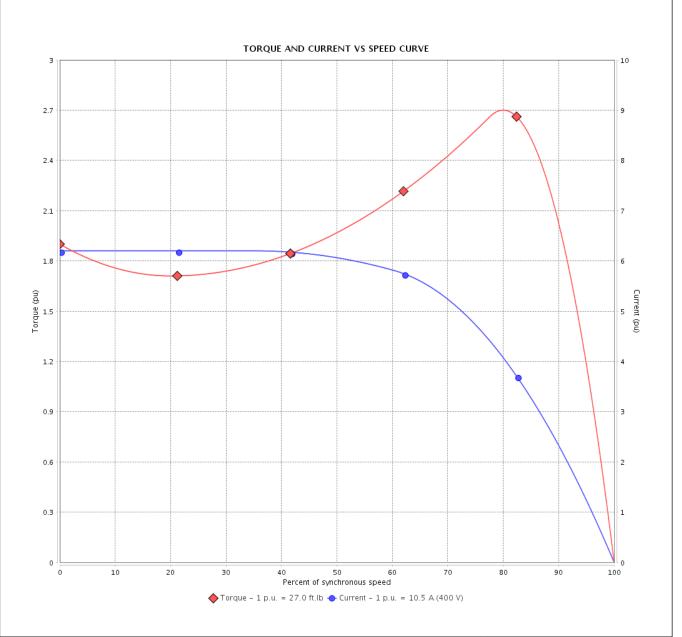


Customer :

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

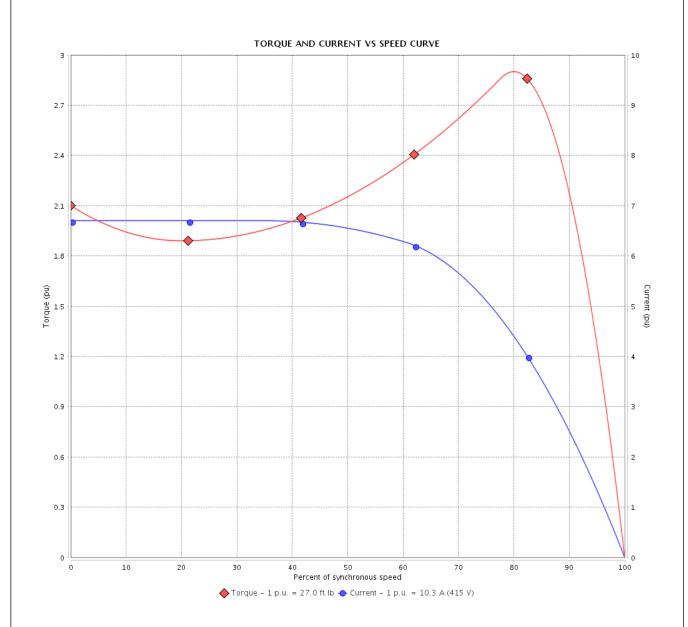
Locked rotor time : 27s (cold) 15s (hot)

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



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 : F Rated torque : 210 % : 1.25 Locked rotor torque Service factor : 290 % Breakdown torque Temperature rise : 80 K : B Rated speed : 1460 rpm Design Locked rotor time : 27s (cold) 15s (hot)

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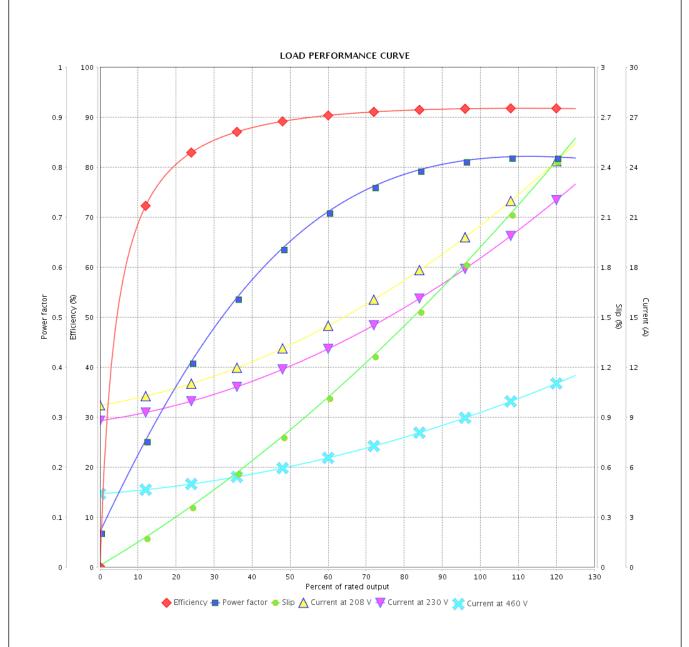
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Product line : NEMA Premium Efficiency Three- Product code : 12789604

Phase

Catalog #: 00718ET3ER213TC-W22



Performance : 230/460 V 60 Hz 4P : 18.4/9.18 A Rated current Moment of inertia (J) : 1.34 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.1 : 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

#### Three Phase Induction Motor - Squirrel Cage

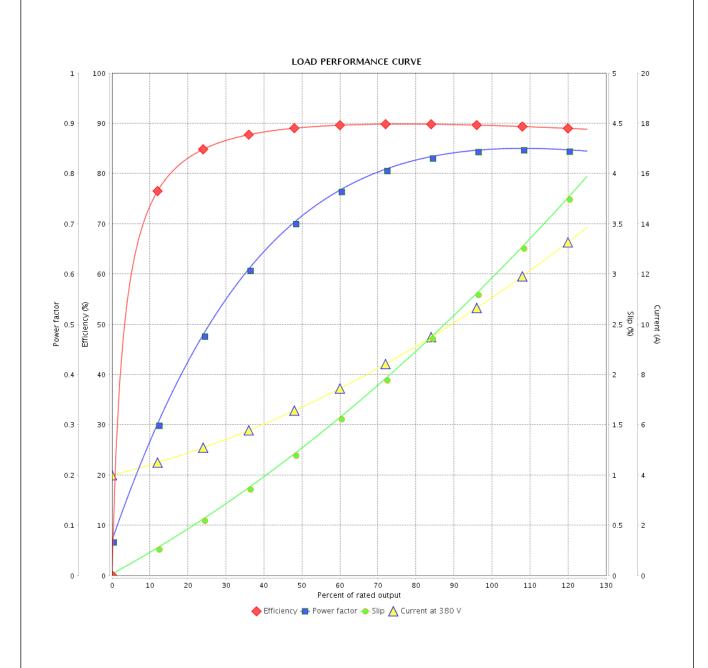


Customer

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

Phase

Catalog #: 00718ET3ER213TC-W22



Performance	: 3	380 V 50 Hz 4P IE3				
Rated current	: 1	11.0 A	Moment of inertia (J)		: 1.34 sq.ft.lb	
LRC	: 5	5.6	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 2	27.1 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : '	170 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	240 %	Temperature rise		: 80 K	
Rated speed	: ′	455 rpm Design		: B		
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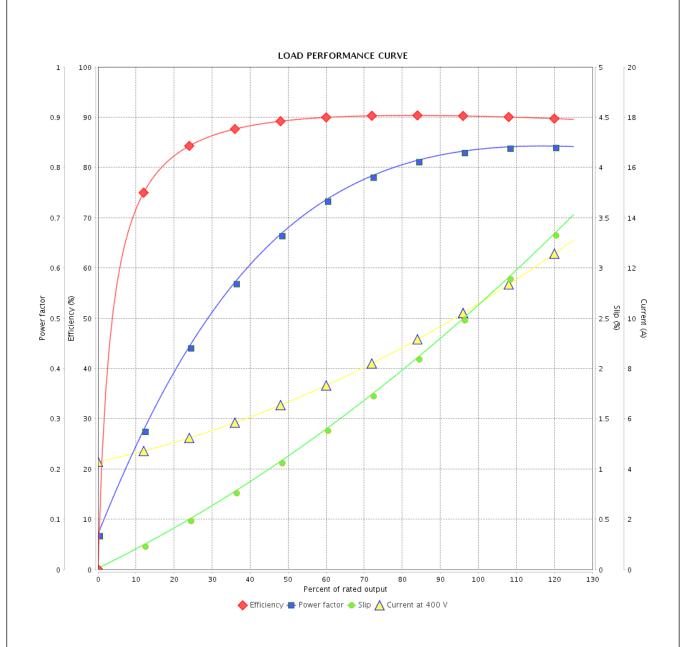
Customer

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Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00718ET3ER213TC-W22

12789604



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 Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage

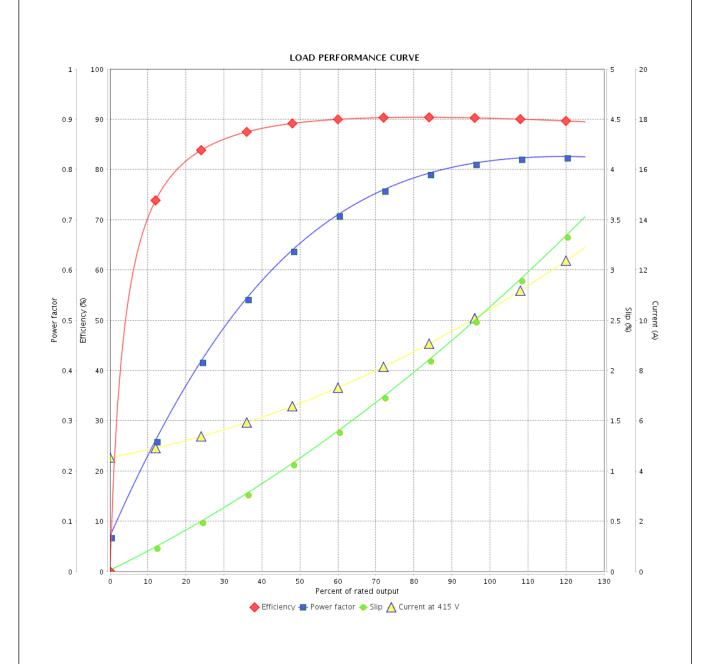


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Product line : NEMA Premium Efficiency Three- Product code : 12789604

Phase

Catalog #: 00718ET3ER213TC-W22



Performance	· 4	115 V 50 Hz 4P IE3				
				finantia (I)	. 1 21 as # lb	
Rated current		0.3 A		f inertia (J)	: 1.34 sq.ft.lb	
LRC	: 6	5.7	Duty cycle	)	: Cont.(S1)	
Rated torque	: 2	27.0 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	210 %	Service fa	ctor	: 1.25	
Breakdown torque		290 %	Temperature rise		: 80 K	
Rated speed	: 1	460 rpm Design		: B		
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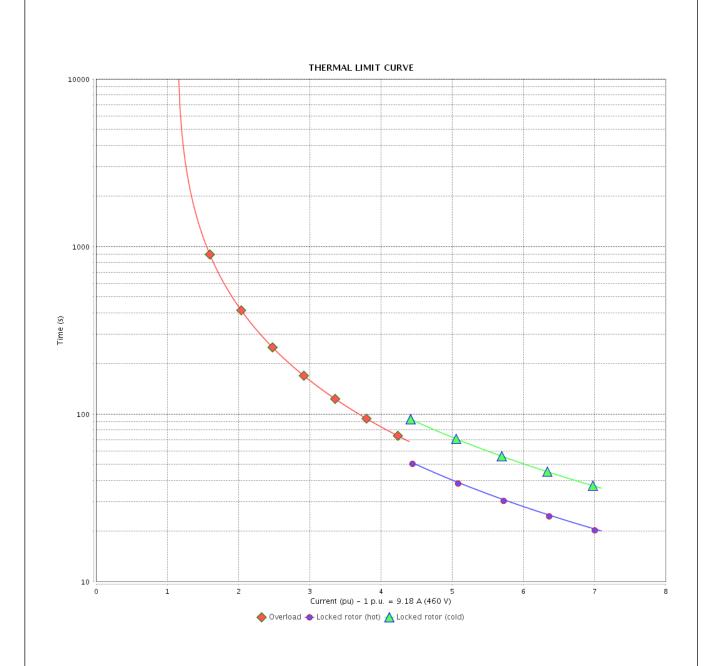


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	12789604 00718ET3ER	213TC-W22
Performance	: 23	30/460 V 60 Hz 4P				
Rated current LRC	: 7.		Moment o	f inertia (J)	: 1.34 sq.ft.lb : Cont.(S1)	
Rated torque	: 22	2.3 ft.lb	Insulation	class	: F	
Locked rotor torque		20 %	Service fa		: 1.25	
Breakdown torque Rated speed		10 % 765 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant Cooling constant						
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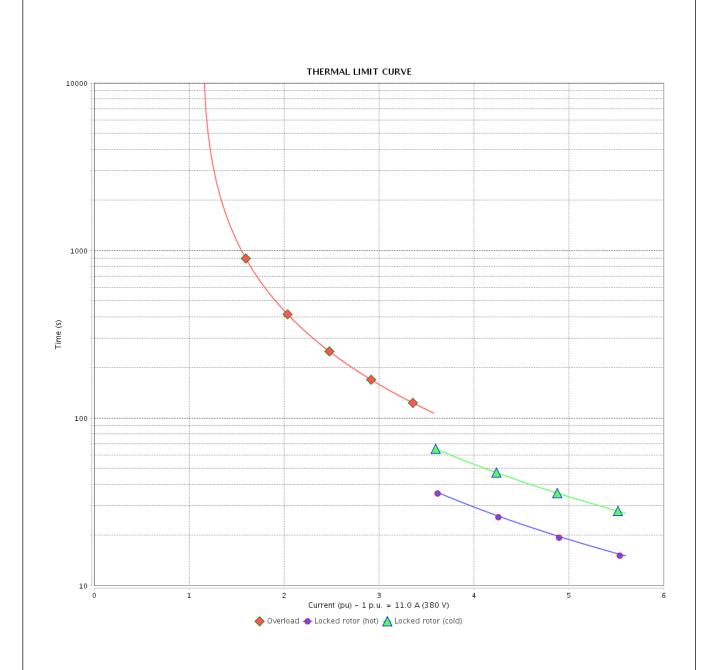


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Product line		NEMA Premium Efficiency hase		Product code :	12789604 00718ET3ER	213TC-W22
Performance	: 38	80 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque	: 5. : 27 e : 17	7.1 ft.lb 70 %	Duty cycle Insulation Service fa	class ctor	: 1.34 sq.ft.lb : Cont.(S1) : F : 1.25	
Breakdown torque Rated speed		40 % 455 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant		r				
Cooling constant						
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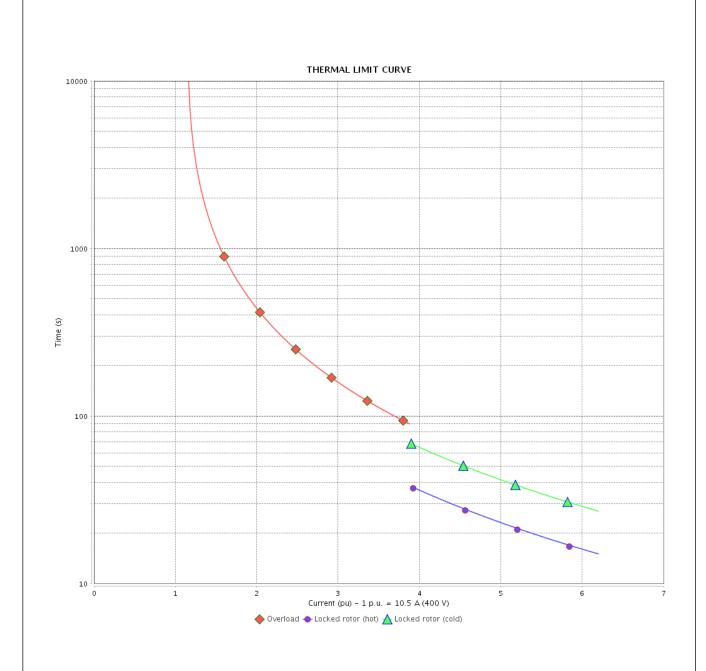


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Product line	: NEMA Premium Efficiency Phase		Product code :	12789604	
			Catalog # :	00718ET3ER	213TC-W22
Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.5 A : 6.2 : 27.0 ft.lb : 190 % : 270 % : 1460 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.34 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Cooling constant  Rev.	Changes Summary		Performed	Checked	Date
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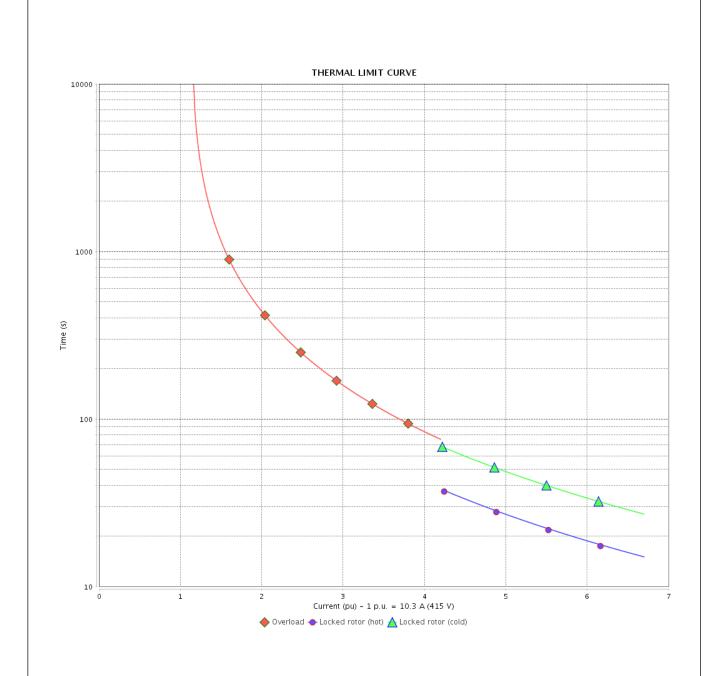


Customer		:				
Product line		: NEMA Premium Efficiency <sup>*</sup> Phase		Product code : Catalog # :	12789604 00718ET3ER	213TC-W22
		WEV 50 H 4D 150				
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: : que :	415 V 50 Hz 4P IE3 10.3 A 6.7 27.0 ft.lb 210 % 290 % 1460 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.34 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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Phase

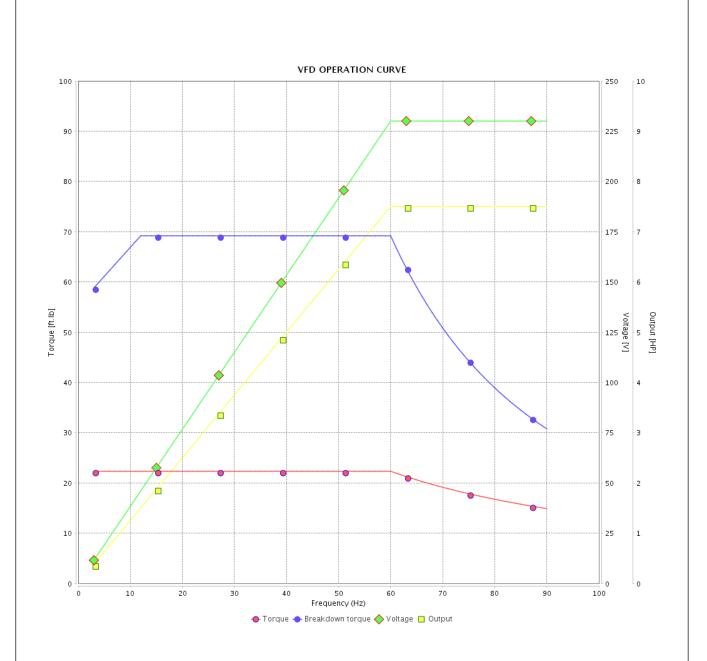
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Performance		: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ie	: 18.4/9.18 A : 7.1 : 22.3 ft.lb : 220 % : 310 % : 1765 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 1.34 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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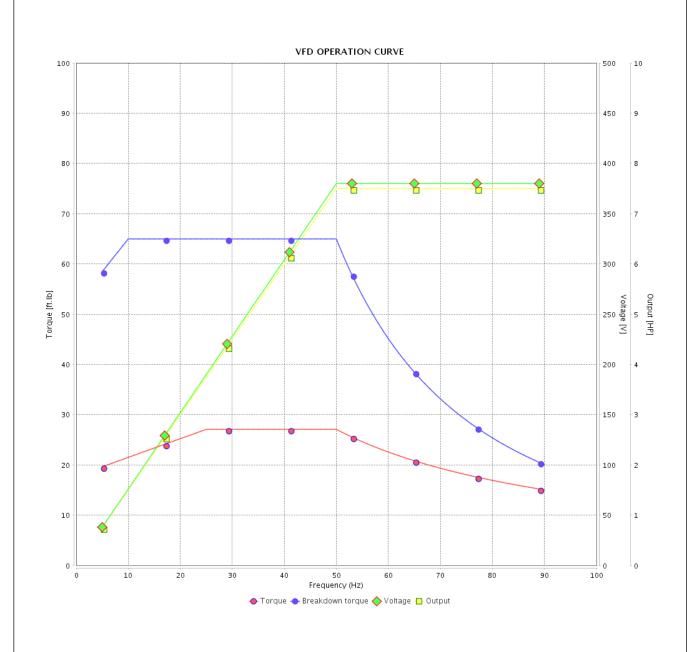
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Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 12789604

Catalog #: 00718ET3ER213TC-W22



Performance : 380 V 50 Hz 4P IE3 : 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 Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage

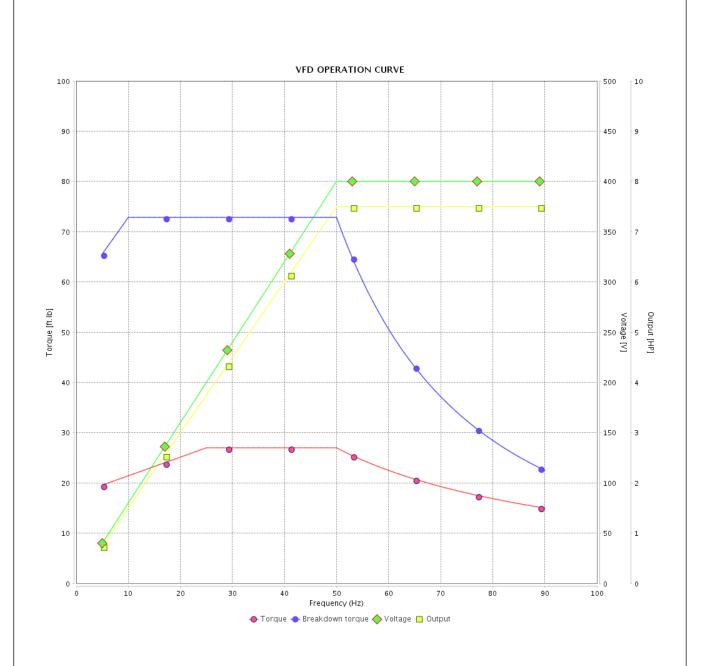


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00718ET3ER213TC-W22

12789604



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 : F Rated torque Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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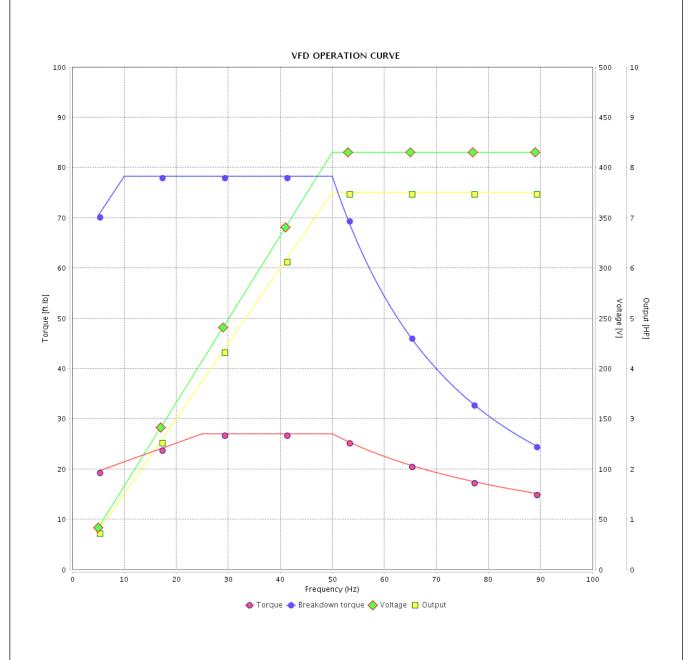
Customer

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

Phase

Catalog #: 00718ET3ER213TC-W22

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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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