DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12598733

Catalog #: 00718ET3E213JM-W22

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

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 171 lb : IP55 Protection degree Moment of inertia (J) : 1.34 sq.ft.lb

Design		: B		(0)	- 4
Output [HP]		7.5	7.5	7.5	7.5
Poles		4	4	4	4
Frequency [Hz]			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 [RPN	/ []	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	Breakdown torque [%]		240	240 270	
Service factor		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 ²		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
Efficiency (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
I OWEI FACIOI	75%	0.76	0.81	0.78	0.76
	100%	0.82	0.85	0.84	0.82

Drive end Non drive end Foundation loads

Bearing type 6309 Z C3 6207 ZZ Max. traction : 356 lb Sealing V'Ring V'Ring Max. compression : 527 lb

40000 h

Lubricant amount 13 g 0 g Mobil Polyrex EM Lubricant type

20000 h

Notes

Lubrication interval

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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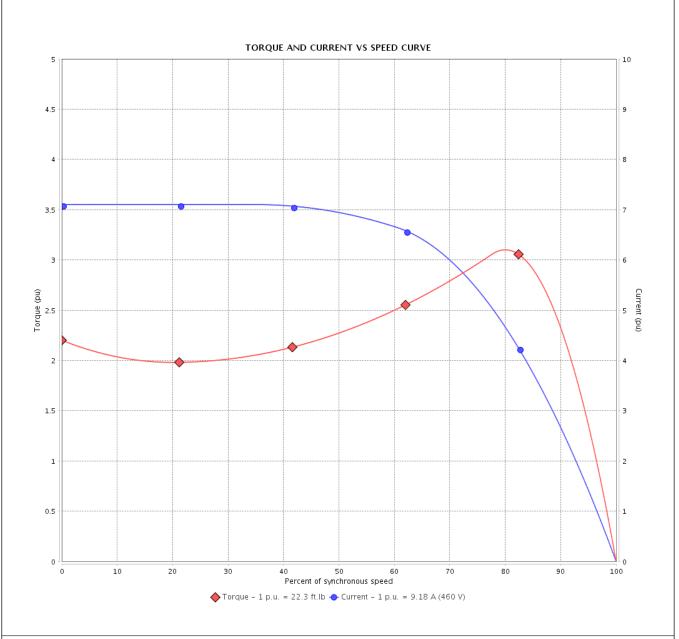
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12598733

Catalog #: 00718ET3E213JM-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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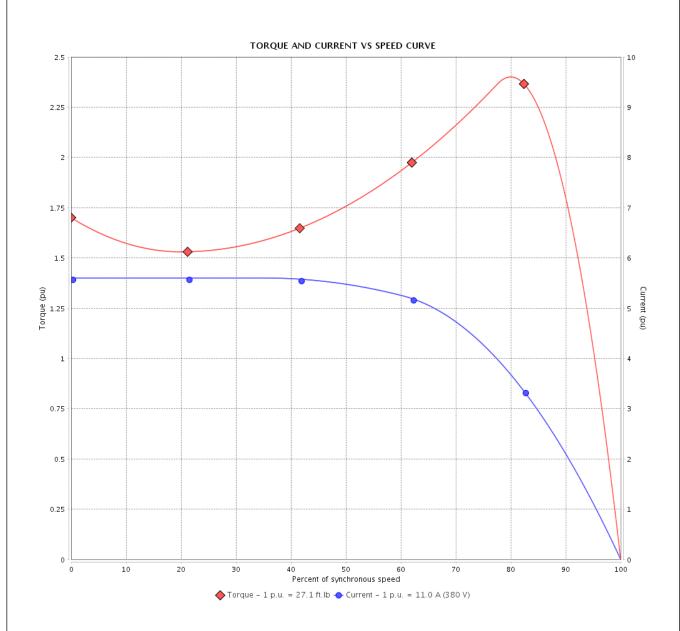
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 12598733

Catalog #: 00718ET3E213JM-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 Rated torque : F Locked rotor torque : 170 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K : B Rated speed : 1455 rpm Design Locked rotor time

: 27s (cold) 15s (hot)

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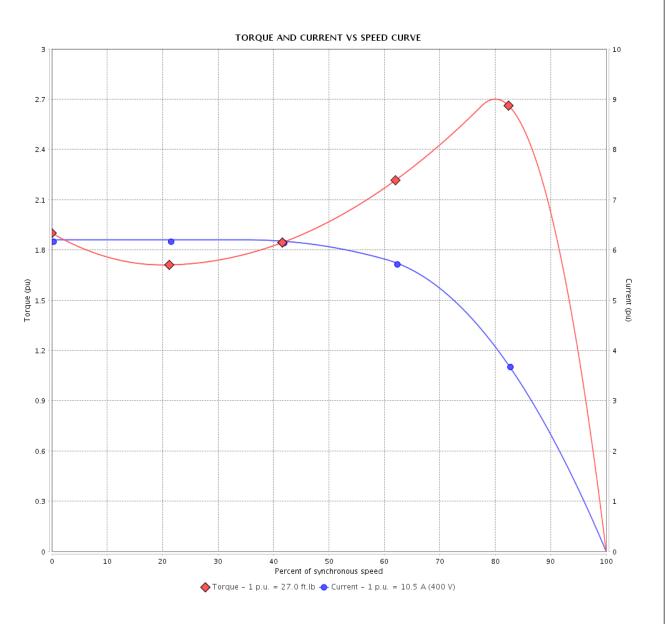
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Phase

Product code: 12598733

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: 400 V 50 Hz 4P IE3 Performance 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 Service factor Locked rotor torque : 190 % : 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: 12598733 Catalog #: 00718ET3E213JM-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3

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

Percent of synchronous speed

◆ Torque – 1 p.u. = 27.0 ft.lb ◆ Current – 1 p.u. = 10.3 A (415 V)

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

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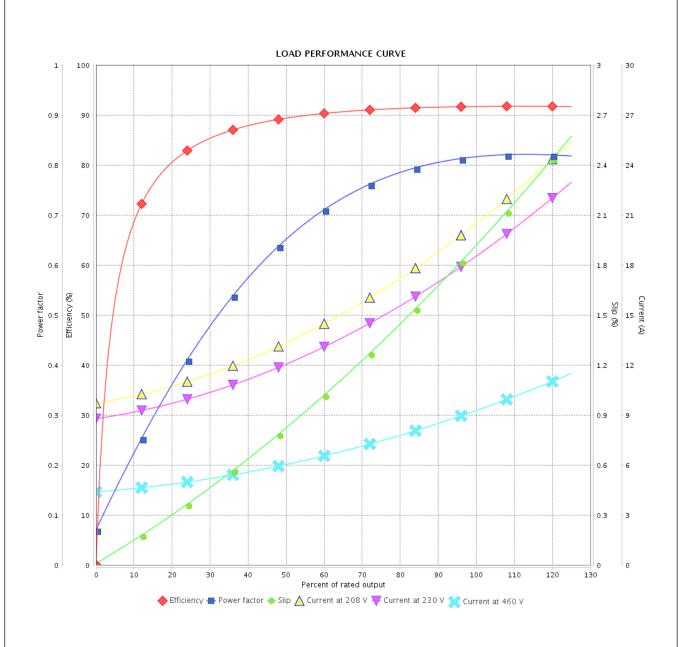
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Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 18.4/9.18 A : 7.1 : 22.3 ft.lb : 220 % : 310 % : 1765 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor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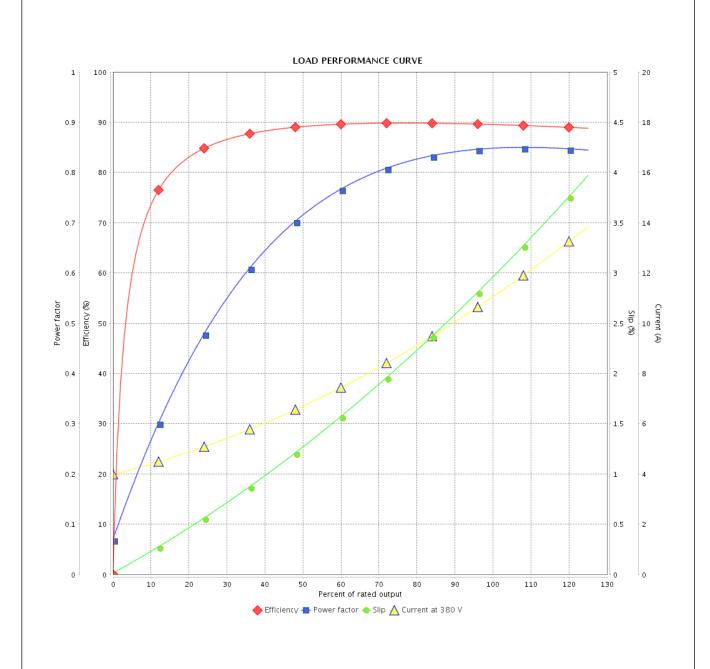
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 12598733

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Performance : 380 V 50 Hz 4P IE3						
Rated current	: 1	1.0 A	Moment o	f inertia (J)	: 1.34 sq.ft.lb	
LRC	: 5	.6	Duty cycle	•	: Cont.(S1)	
Rated torque	: 2	7.1 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 1	70 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie : 2	40 % Temperature rise 455 rpm Design		ure rise	: 80 K	
Rated speed	: 1				: B	
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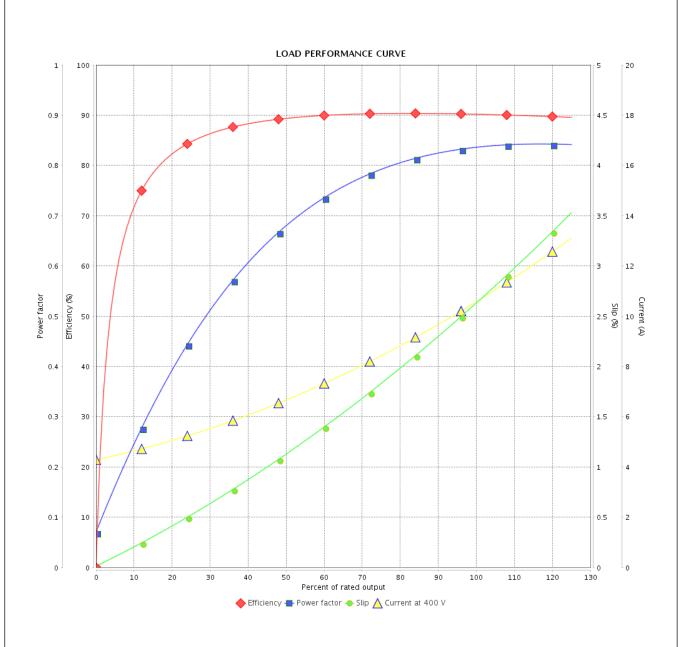
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Performance	: 400 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.5 A : 6.2 : 27.0 ft.lb : 190 % : 270 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.34 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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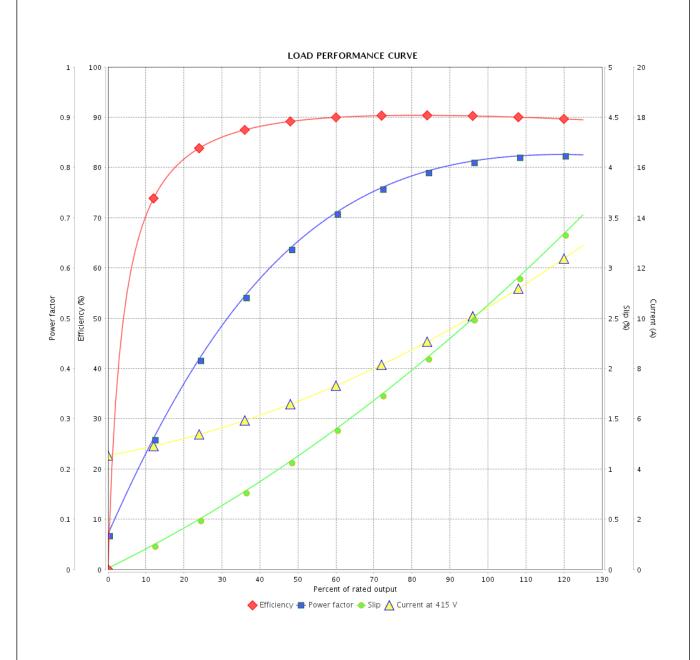
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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.3 A : 6.7 : 27.0 ft.lb : 210 % : 290 % : 1460 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class ctor	: 1.34 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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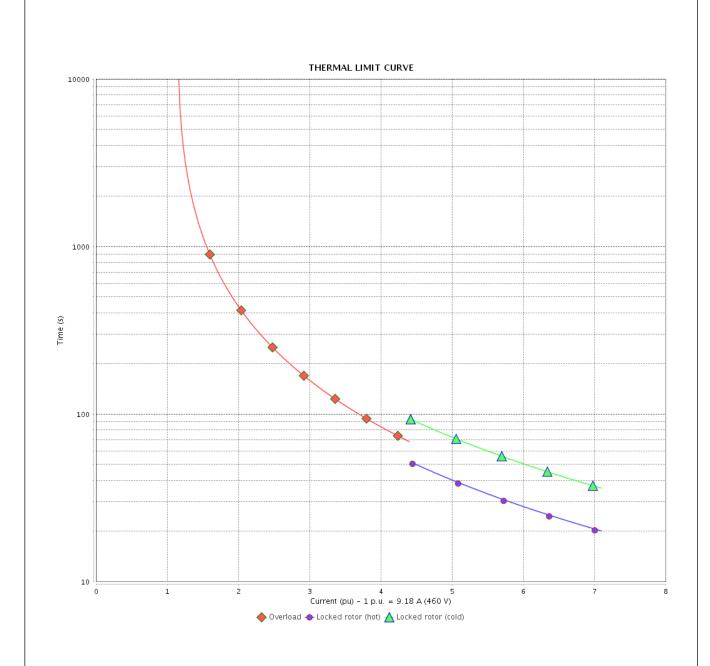


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Product line		: NEMA Premium Efficiency Three-		Product code :	12598733	
	Pl	hase		Catalog # :	00718ET3E2	13JM-W22
Performance	. 00	20/460 \ / 60 LI= 4D				
Rated current		30/460 V 60 Hz 4P 3.4/9.18 A	Moment of	f inertia (J)	: 1.34 sq.ft.lb	
LRC	: 7.	1	Duty cycle	;	: Cont.(S1)	
Rated torque		2.3 ft.lb 20 %	Insulation Service fa	class	: F : 1.25	
Locked rotor torque Breakdown torque		20 % 10 %	Temperatu		: 1.25 : 80 K	
Rated speed		765 rpm	Design		: B	
Heating constant	1					
Cooling constant						
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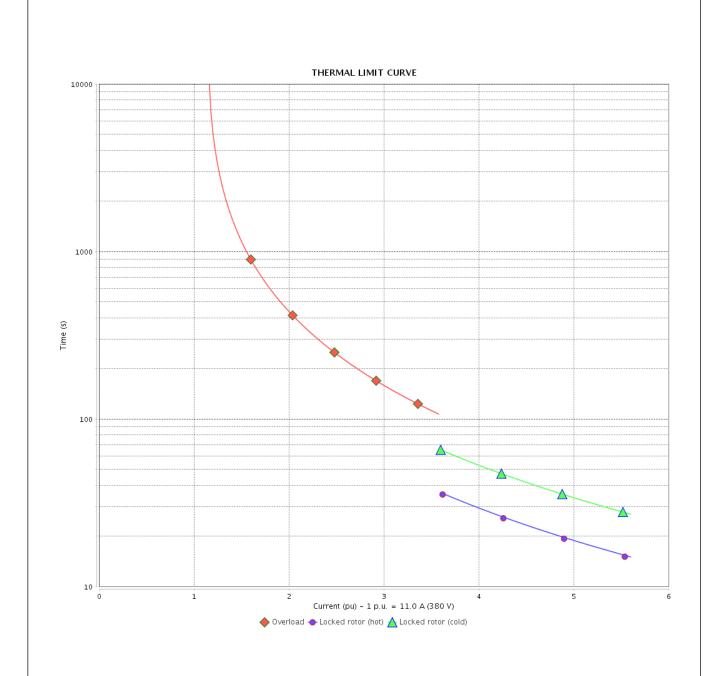


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Product line	: NEMA Premium Efficienc	y Three-	Product code :	12598733	
	Phase		Catalog # :	00718ET3E2	13JM-W22
Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 11.0 A	Moment o	f inertia (J)	: 1.34 sq.ft.lb	
LRC Rated torque	: 5.6 : 27.1 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 170 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed	: 240 % : 1455 rpm	Temperati Design	ure rise	: 80 K : B	
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Heating constant Cooling constant					
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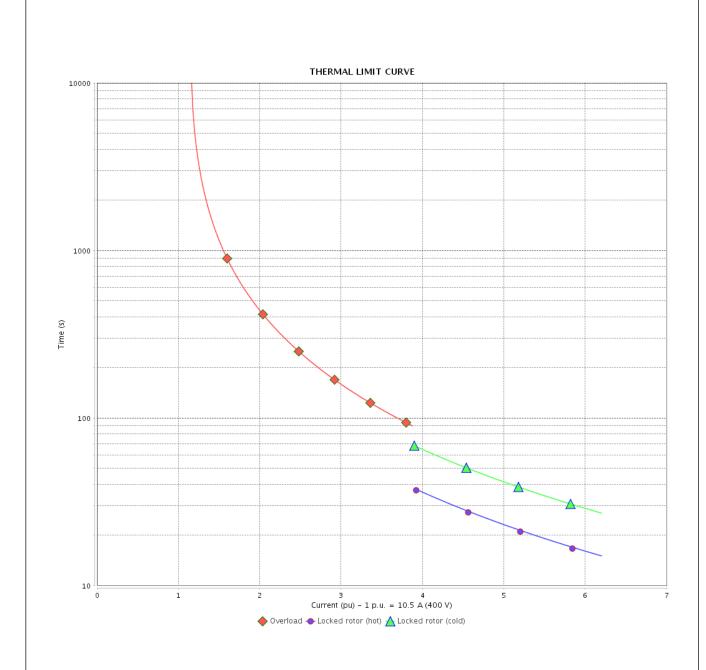


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Product line	: NEMA Premium Efficiency	Three-	Product code :	12598733	
	Phase	(Catalog # :	00718ET3E2	13JM-W22
Performance	: 400 V 50 Hz 4P IE3				
Rated current	: 10.5 A	Moment of	f inertia (J)	: 1.34 sq.ft.lb	
LRC Rated torque	: 6.2 : 27.0 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torque	: 190 %	Service fac	ctor	: 1.25	
Breakdown torque Rated speed	: 270 % : 1460 rpm	Temperatu Design	ıre rise	: 80 K : B	
	. 1 100 1pm	Doolgii			
Heating constant Cooling constant					
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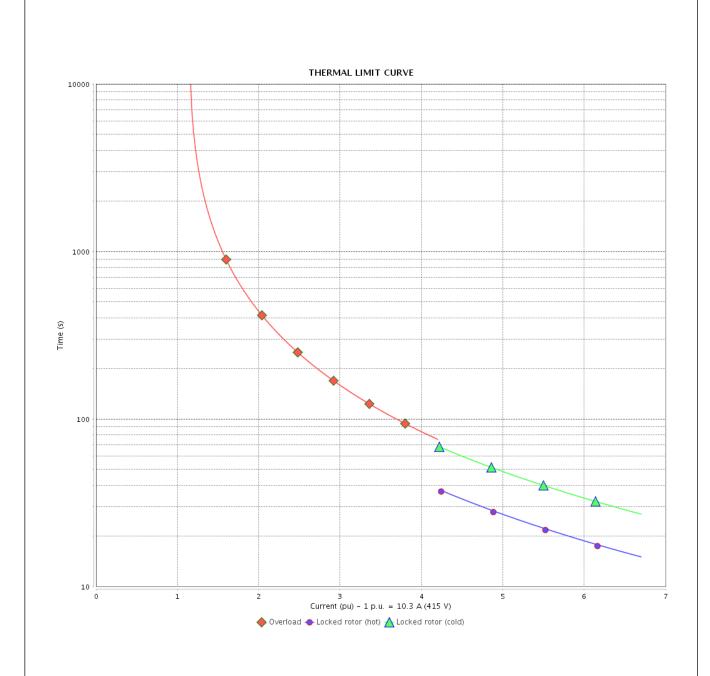


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Product line	: NEMA Premium Efficiency Phase		uct code :	12598733 00718ET3E21	3JM-W22
Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC	: 10.3 A : 6.7	Moment of iner	tia (J)	: 1.34 sq.ft.lb : Cont.(S1)	
Rated torque	: 27.0 ft.lb	Insulation class	;	: F	
Locked rotor torque	: 210 % : 290 %	Service factor		: 1.25 : 80 K	
Breakdown torque Rated speed	: 1460 rpm	Temperature ris		: B	
Heating constant					
Cooling constant					
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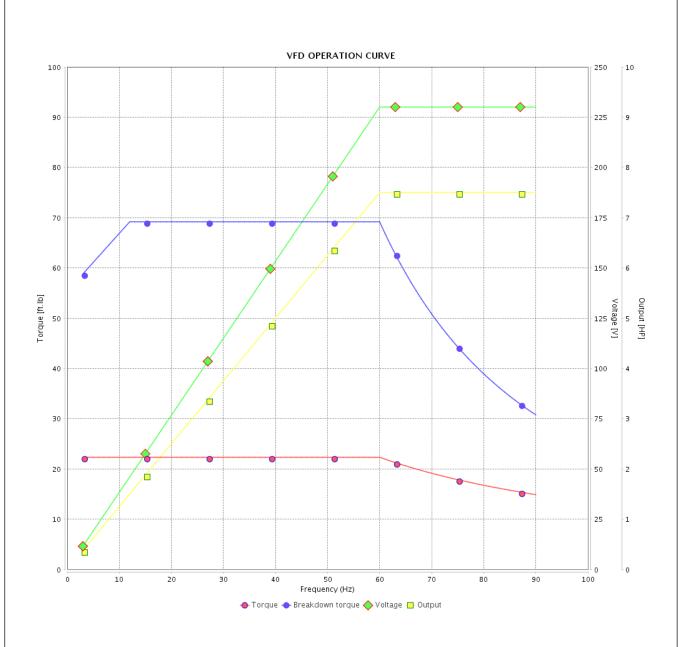
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Performance		: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	lue le	: 18.4/9.18 A : 7.1 : 22.3 ft.lb : 220 % : 310 % : 1765 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.34 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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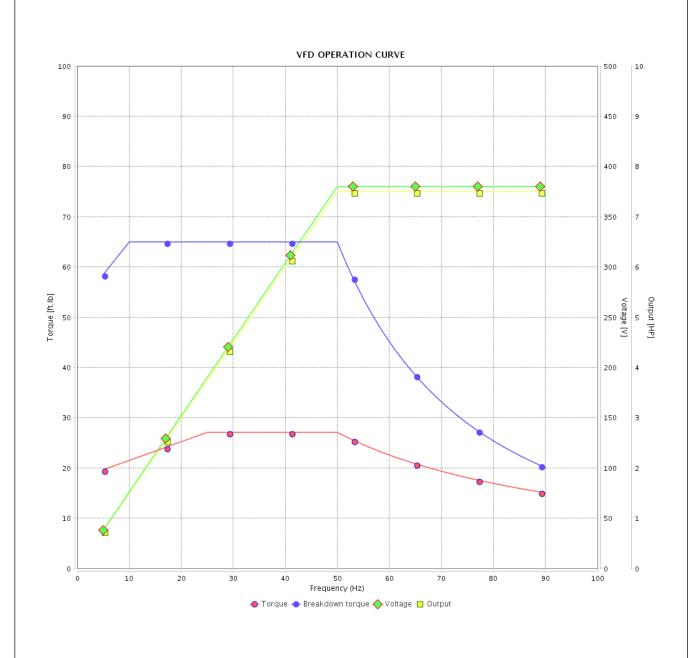
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Performance	: 3	80 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		1.0 A .6 7.1 ft.lb 70 % 40 % 455 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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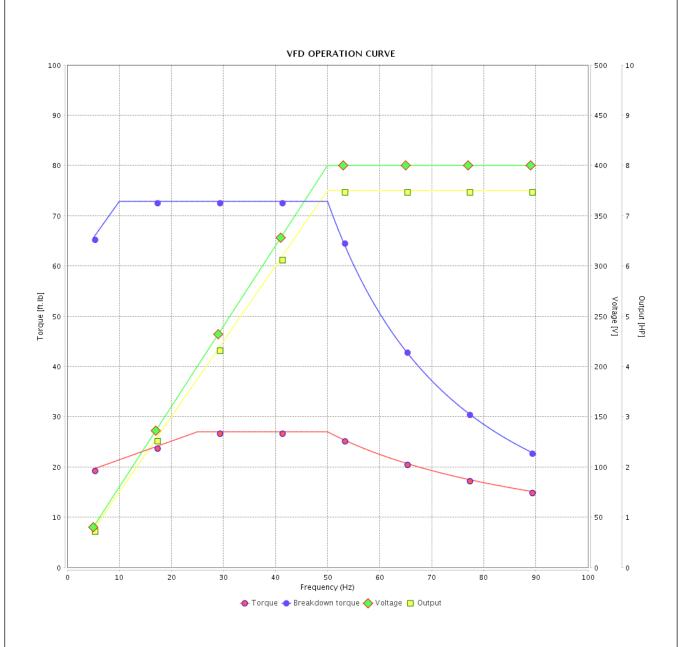
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Performance	: 400 V 50 Hz 4P IE3				
Rated current	ated current : 10.5 A M		f inertia (J)	: 1.34 sq.ft.lb	
LRC	: 6.2	Duty cycle		: Cont.(S1)	
Rated torque	: 27.0 ft.lb	Insulation class		: F	
Locked rotor torque	: 190 %	Service factor		: 1.25	
Breakdown torque	: 270 %	Temperature rise		: 80 K	
Rated speed	: 1460 rpm	Design		: B	
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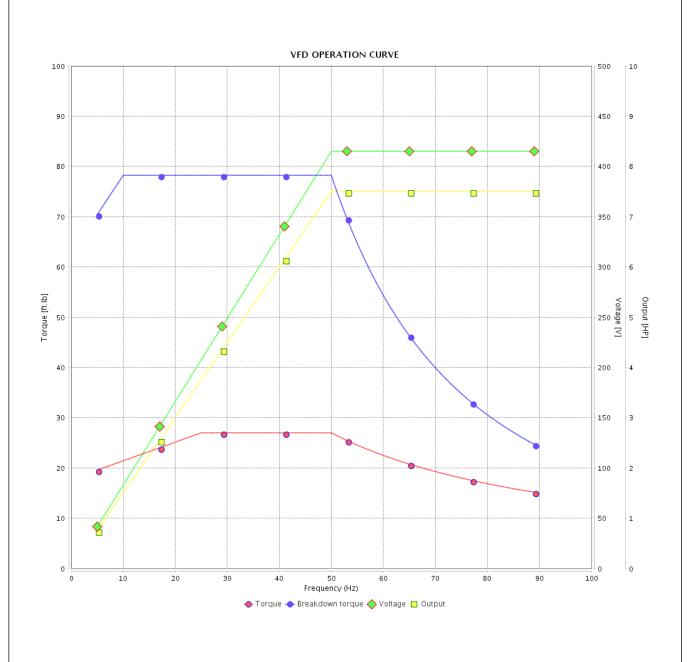
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Performance	:	415 V 50 Hz 4P IE3				
Rated current	:	: 10.3 A Moment of		t of inertia (J) : 1.34 sq.ft.lb		
LRC	:	6.7	Duty cycle)	: Cont.(S1)	
Rated torque	:	27.0 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	210 %	Service factor		: 1.25	
Breakdown torque : 290 %		290 %	Temperati	Temperature rise		
Rated speed	:	1460 rpm	Design		: B	
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