DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11723868

Phase

Catalog #: 00118ET3E143T-W22

Frame : 143/5T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

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 : 44.4 lb

, untado		. 1000 m.a.o					
Protection degre	е	: IP55	Moment of inc	ertia (J) : 0.11	72 sq.ft.lb		
Design		: B					
Output [HP]		1	1	1	1		
Poles		4	4	4	4		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		230/460	380	400	415		
Rated current [A]		2.94/1.47	1.71	1.65	1.63		
L. R. Amperes [A]		25.3/12.6	10.9	11.5	12.1		
LRC [A]		8.6x(Code M)	6.4x(Code J)	7.0x(Code K)	7.4x(Code K)		
No load current [A	.]	1.88/0.940	0.930	1.00	1.08		
Rated speed [RPI	Л]	1760	1450	1455	1455		
Slip [%]	Slip [%]		3.33	3.00	3.00		
Rated torque [ft.lb]	ated torque [ft.lb] 2.98		3.62	3.61	3.61		
Locked rotor torqu	Locked rotor torque [%]		220	240	260		
Breakdown torque	: [%]	350	250	290	310		
Service factor		1.25	1.25	1.25	1.25		
Temperature rise		80 K	80 K	80 K	80 K		
Locked rotor time		32s (cold) 18s (hot)					
Noise level ²		51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)		
	25%						
Efficiency (%)	50%	80.0	80.0	80.0	80.0		
Efficiency (70)	75%	84.0	82.5	82.5	82.5		
	100%		82.5	84.0	84.0		
	25%						
Power Factor	50%		0.62	0.58	0.55		
FOWEI FACIOI	75%	0.68	0.74	0.71	0.69		
	100%	0.75	0.81	0.78	0.76		

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

Bearing type : 6205 ZZ 6204 ZZ Max. traction : 75 lb

Sealing : V'Ring V'Ring Max. compression : 119 lb Lubrication interval : - - - Lubricant amount : - -

Mobil Polyrex EM

Notes

Lubricant type

USABLE @208V 3.07A SF 1.15 SFA 3.54A

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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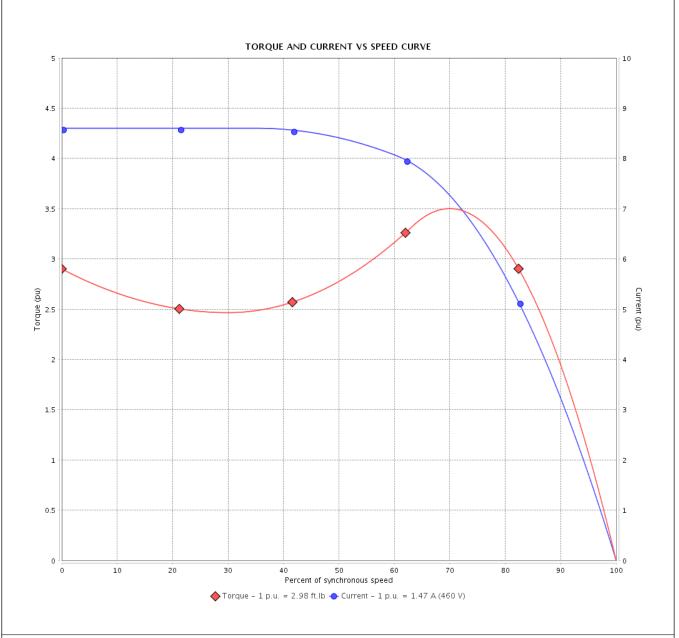
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11723868

Catalog #: 00118ET3E143T-W22



Performance : 230/460 V 60 Hz 4P Rated current : 2.94/1.47 A Moment of inertia (J) : 0.1172 sq.ft.lb **LRC** : 8.6 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.98 ft.lb Service factor Locked rotor torque : 290 % : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11723868 Catalog #: 00118ET3E143T-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. = 3.62 ft.lb ◆ Current - 1 p.u. = 1.71 A (380 V) : 380 V 50 Hz 4P IE3 Performance Rated current : 1.71 A Moment of inertia (J) : 0.1172 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Rated torque : 3.62 ft.lb Insulation class : F Locked rotor torque : 220 % : 1.25 Service factor : 80 K Breakdown torque : 250 % Temperature rise Rated speed : 1450 rpm : B Design

Locked rotor time	e : 32	2s (cold) 18s (hot)			
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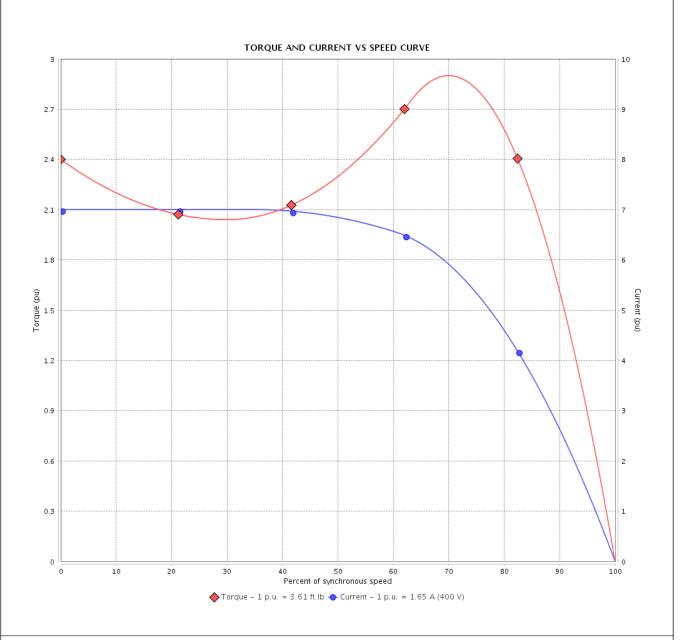
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11723868

Catalog #: 00118ET3E143T-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 1.65 A Moment of inertia (J) : 0.1172 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 3.61 ft.lb : F Service factor Locked rotor torque : 240 % : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11723868 Catalog #: 00118ET3E143T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 3.61 ft.lb ◆ Current - 1 p.u. = 1.63 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 1.63 A Moment of inertia (J) : 0.1172 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 3.61 ft.lb Insulation class : F Rated torque : 260 % Locked rotor torque Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Date Rev. Performed Checked **Changes Summary**

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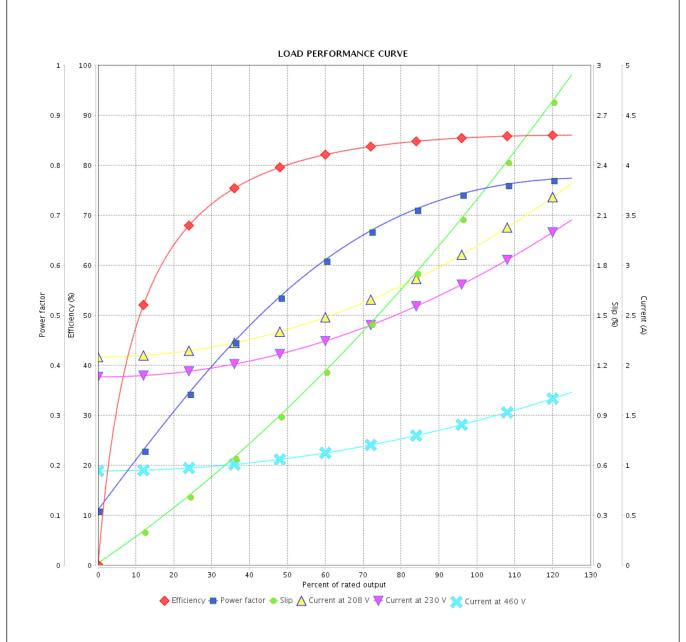
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Phase

Catalog # : 00118ET3E143T-W22

11723868



Performance : 230/460 V 60 Hz 4P : 2.94/1.47 A Rated current Moment of inertia (J) : 0.1172 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.6 Insulation class Rated torque : 2.98 ft.lb : F Locked rotor torque : 290 % Service factor : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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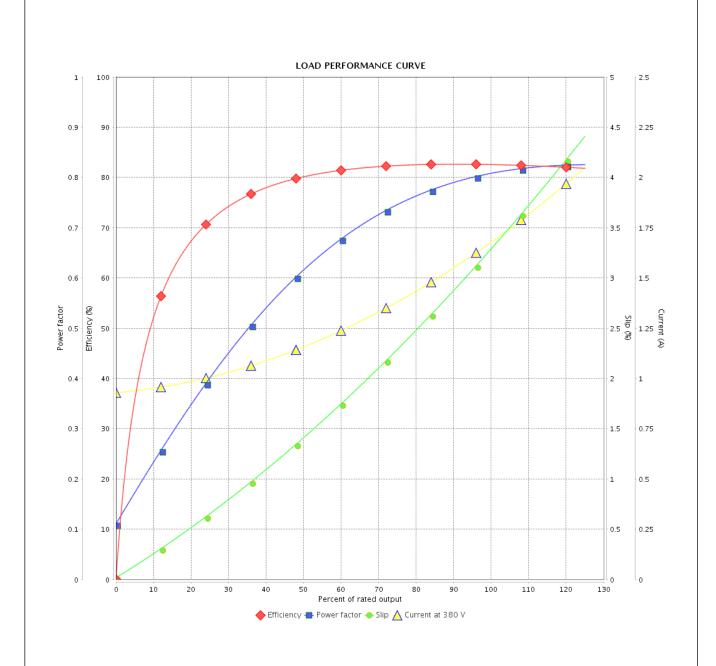


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11723868

Phase

Catalog #: 00118ET3E143T-W22



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.71 A : 6.4 : 3.62 ft.lb : 220 % : 250 % : 1450 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1172 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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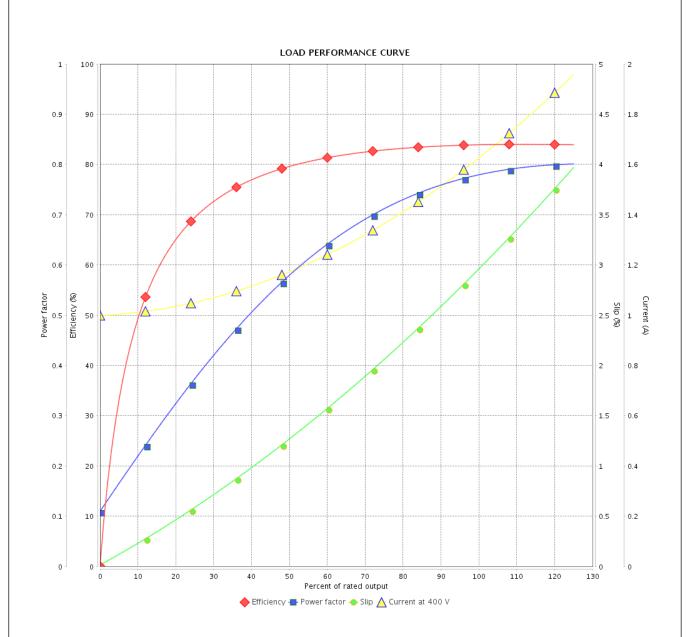


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11723868

Phase

Catalog #: 00118ET3E143T-W22



Performance	: 400 V 50 Hz 4P IE3				
Rated current : 1.65 A		Moment of	Moment of inertia (J)		lb
LRC	: 7.0	Duty cycle		: Cont.(S1)	
Rated torque	: 3.61 ft.lb	Insulation	class	: F	
Locked rotor torque	: 240 %	Service fa	ctor	: 1.25	
Breakdown torque	: 290 %	Temperature rise Design		: 80 K	
Rated speed	: 1455 rpm			: B	
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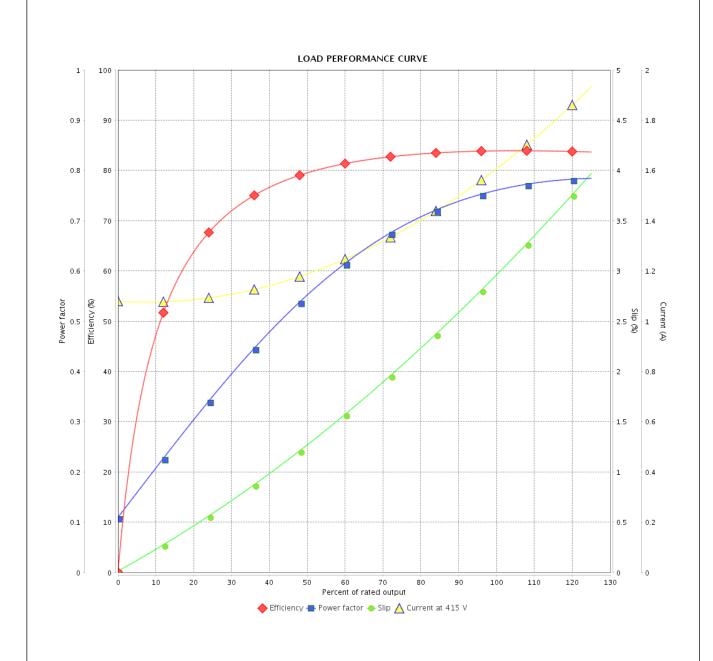


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11723868

Phase

Catalog #: 00118ET3E143T-W22



Performance	: 4	15 V 50 Hz 4P IE3					
Rated current	d current : 1.63 A		Moment of	Moment of inertia (J)		lb	
LRC	: 7	.4	Duty cycle	;	: Cont.(S1)		
Rated torque	: 3	.61 ft.lb	Insulation	class	: F	,	
Locked rotor torqu	ue : 2	60 %	Service fa	Service factor			
Breakdown torque		10 %	Temperati	ure rise	: 80 K		
Rated speed	: 1	455 rpm	Design		: B		
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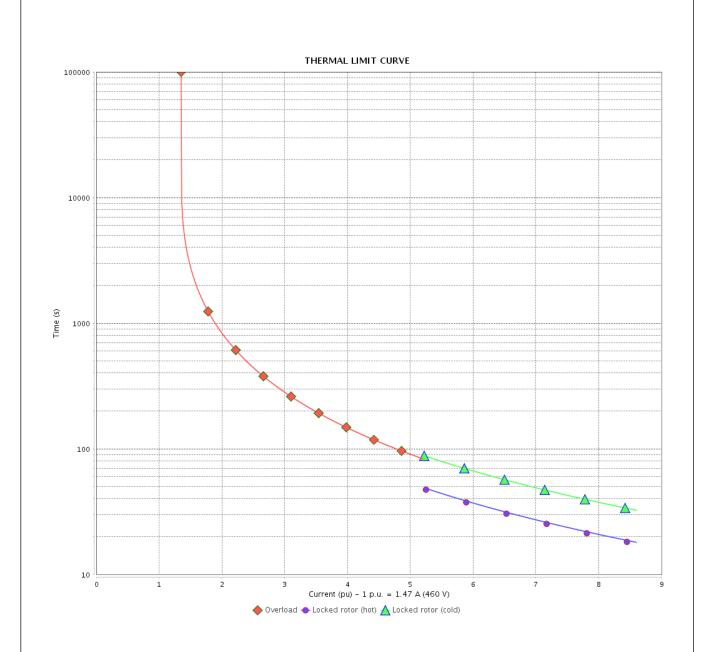


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11723868	
	P	hase	1	Catalog # :	00118ET3E1	43T-W22
Performance	: 23	30/460 V 60 Hz 4P				
Rated current		94/1.47 A	Moment o	f inertia (J)	: 0.1172 sq.ft.l	b
LRC Rated torque	: 8. : 2.	6 98 ft.lb	Duty cycle Insulation	: class	: Cont.(S1) : F	
Locked rotor torqu	e : 29	90 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed		50 % 760 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant		•				
Cooling constant						
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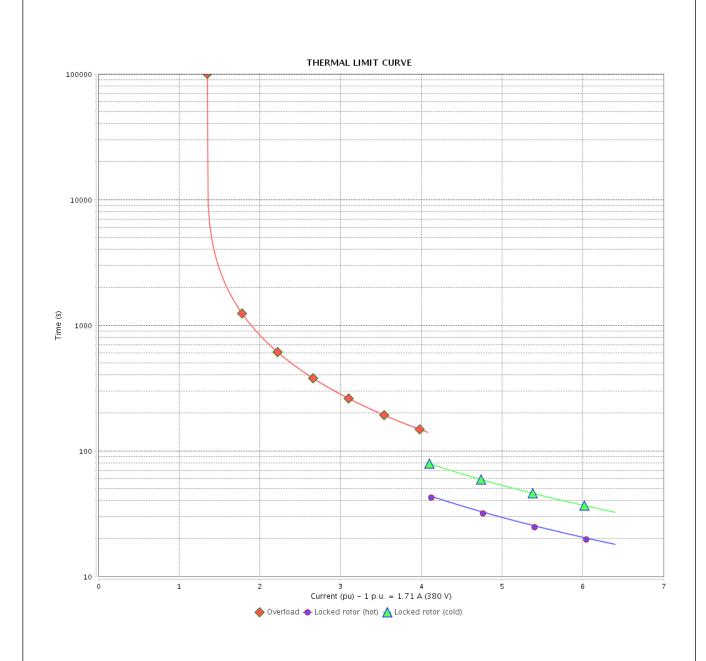


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11723868	40T M/00
				Catalog # :	00118ET3E1	431-0022
Performance		: 380 V 50 Hz 4P IE3				
Rated current		: 1.71 A	Moment o	of inertia (J)	: 0.1172 sq.ft.lt)
LRC Rated torque		: 6.4 : 3.62 ft.lb	Duty cycle Insulation	Э	: Cont.(S1) : F	
Locked rotor tord		: 3.62 ILID : 220 %	Service fa		: 1.25	
Breakdown torqu	ue	: 250 %	Temperat		: 80 K	
Rated speed		: 1450 rpm	Design		: B	
Heating constant Cooling constant						
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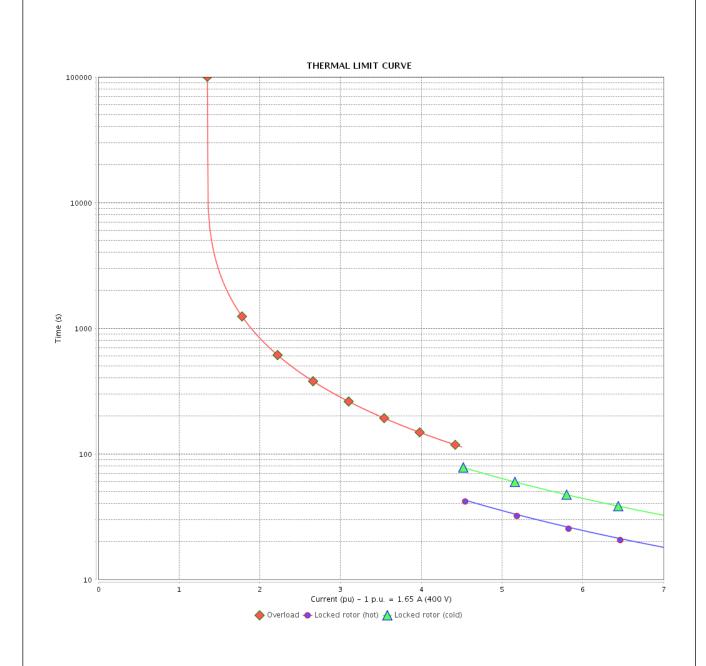


Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	11723868	
	Phase		Catalog # :	00118ET3E1	43T-W22
	: 400 V 50 Hz 4P IE3				
	: 1.65 A : 7.0	Moment of Duty cycle	f inertia (J)	: 0.1172 sq.ft.ll : Cont.(S1)	b
Rated torque	: 3.61 ft.lb	Insulation	class	: F	
Locked rotor torque	: 240 %	Service fa		: 1.25	
	: 290 % : 1455 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant	•				
Cooling constant					
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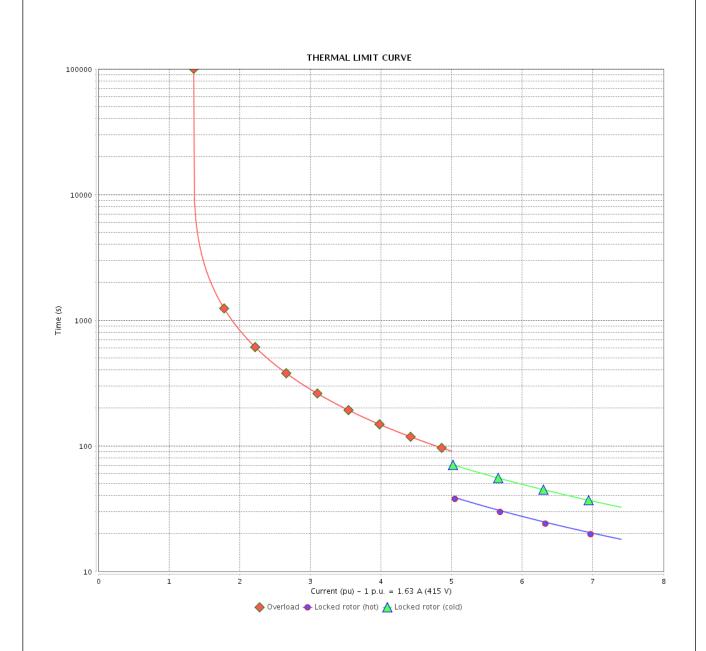


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11723868	
		i ilase		Catalog # :	00118ET3E1	43T-W22
Performance		: 415 V 50 Hz 4P IE3				
Rated current		: 1.63 A	Moment of	of inertia (J)	: 0.1172 sq.ft.ll	b
LRC Rated torque		: 7.4 : 3.61 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torc	que	: 260 %	Service fa		. r : 1.25	
Breakdown torqu	ue	: 310 %	Temperat	ure rise	: 80 K	
Rated speed		: 1455 rpm	Design		: B	
Heating constant						
Cooling constant Rev.	t 	Changes Summary		Performed	Checked	Date
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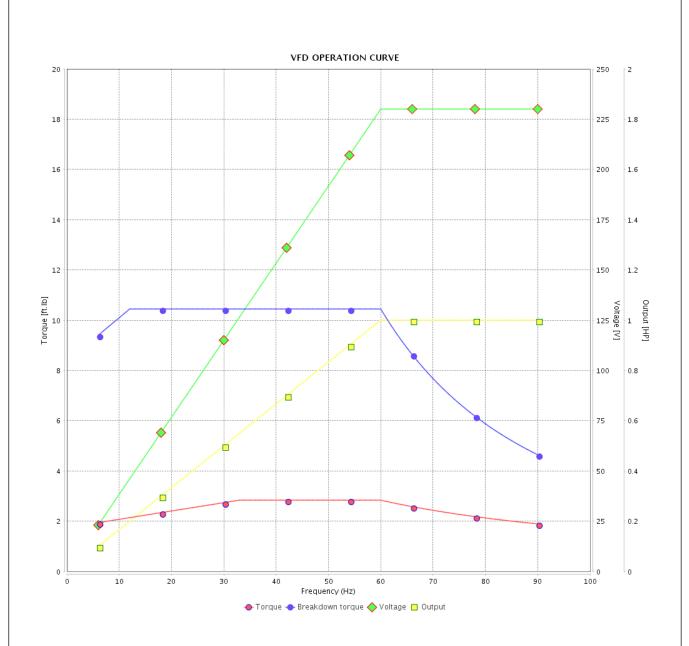
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00118ET3E143T-W22

11723868



Performance : 230/460 V 60 Hz 4P Rated current : 2.94/1.47 A Moment of inertia (J) : 0.1172 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.6 Insulation class : 2.98 ft.lb : F Rated torque Locked rotor torque : 290 % Service factor : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B Rev. Performed Checked Date **Changes Summary**

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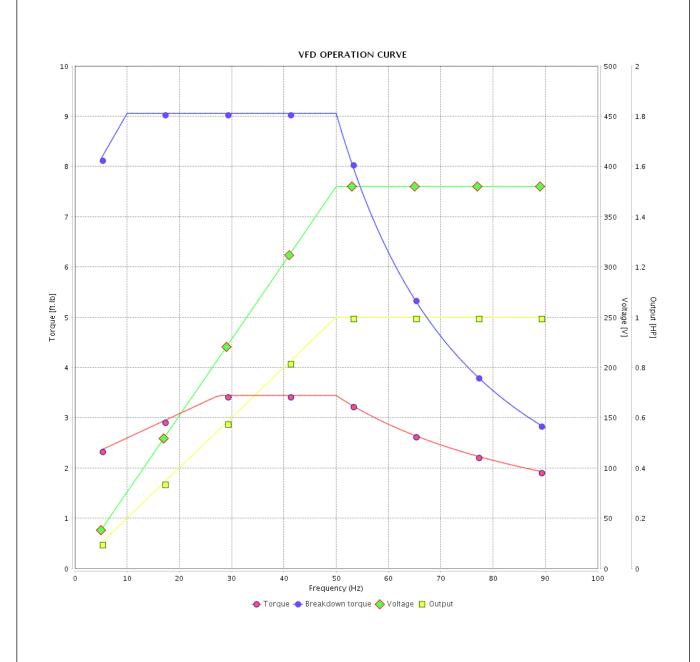


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11723868

Phase

Catalog #: 00118ET3E143T-W22



Performance	: 38	30 V 50 Hz 4P IE3				
Rated current	: 1.	71 A	Moment o	of inertia (J)	: 0.1172 sq.ft.lb	
LRC	: 6.	4	Duty cycle	9	: Cont.(S1)	
Rated torque	: 3.	62 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 22	20 %	Service fa	actor	: 1.25	
Breakdown torque	e : 25	50 %	Temperature rise		: 80 K	
•		150 rpm	Design		: B	
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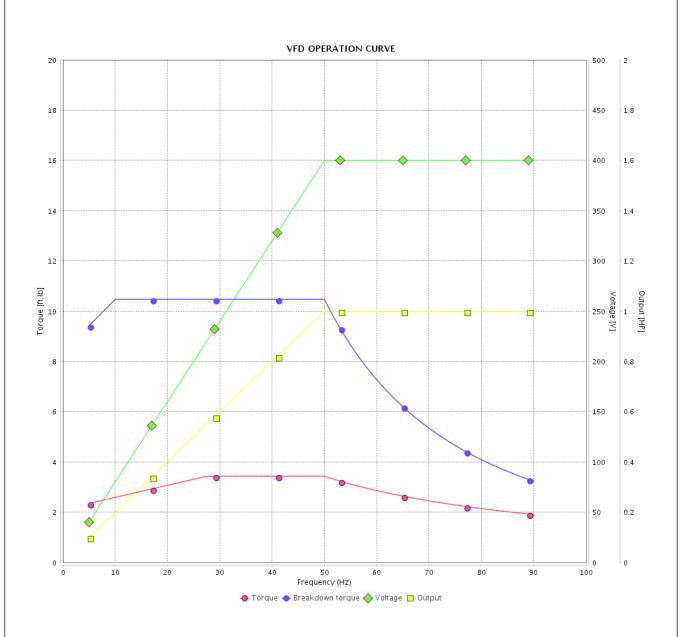
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 11723868

Catalog #: 00118ET3E143T-W22



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	current : 1.65 A Moment of inertia (J) : 7.0 Duty cycle orque : 3.61 ft.lb Insulation class rotor torque : 240 % Service factor torque : 290 % Temperature rise		class	: 0.1172 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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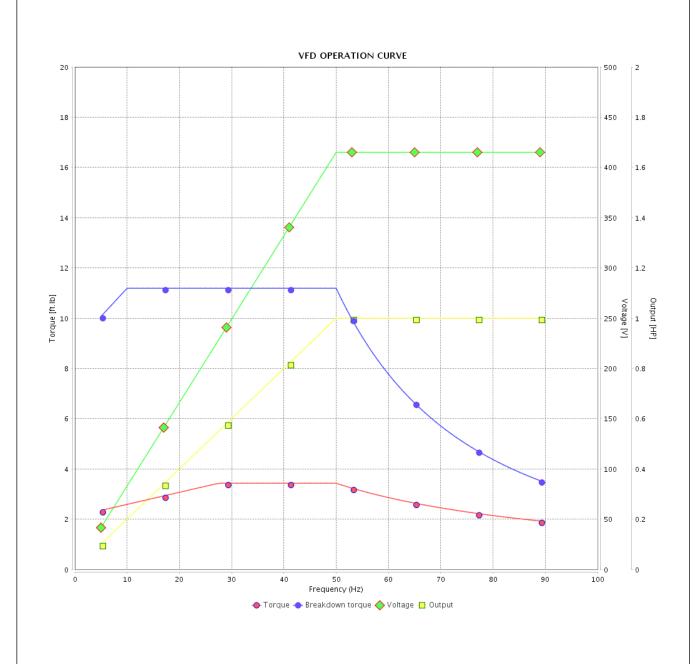
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11723868

Catalog #: 00118ET3E143T-W22



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	ated current : 1.63 A Moment of inertia (of inertia (J)	: 0.1172 sq.ft.lb		
LRC	: 7	.4	Duty cycle	9	: Cont.(S1)	
Rated torque	: 3	.61 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	60 %	Service fa	ictor	: 1.25	
Breakdown torque	: 3	10 %	Temperature rise		: 80 K	
Rated speed		455 rpm	Design		: B	
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