DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14412517

Catalog #: 00112XT3E145T

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

Insulation class Mounting : F-1

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

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 75.3 lb · IP55 : 0.1595 sq.ft.lb

Protection degree Moment of inertia (J)

Protection degree		: IP55	Moment of inertia (J) : 0.1595 sq.ft.lb		95 sq.ft.lb	
Design		: B				
Output [HP]		1	1	1	1	
Poles		6	6	6	6	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		230/460	380	400	415	
Rated current [A]		3.26/1.63	1.91	1.86	1.85	
L. R. Amperes [A]		20.2/10.1	9.17	9.67	10.2	
LRC [A]		6.2x(Code K)	4.8x(Code G)	5.2x(Code H)	5.5x(Code J)	
No load current [A]	2.00/1.00	0.950	1.05	1.15	
Rated speed [RPN	Rated speed [RPM]		930	940	950	
Slip [%]		4.17	7.00	6.00	5.00	
Rated torque [ft.lb]		4.57	5.65	5.59	5.53	
Locked rotor torqu	e [%]	260	180	210	240	
Breakdown torque [%]		280	200	229	250	
Service factor		1.15	1.00	1.00	1.00	
Temperature rise		80 K	80 K	80 K	80 K	
Locked rotor time		50s (cold) 28s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	
Noise level ²		50.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)	
	25%	76.0	76.1	74.6	73.0	
Efficiency (%)	50%	77.0	77.0	75.5	74.0	
Efficiency (70)	75%	82.0	78.0	78.0	78.0	
	100%	82.5	78.5	78.5	78.5	
	25%	0.29	0.35	0.32	0.29	
Power Factor	50%	0.51	0.58	0.54	0.50	
1 OWEL FACIOI	75%	0.63	0.70	0.67	0.64	
	100%	0.70	0.76	0.74	0.72	

Drive end Non drive end Foundation loads

Bearing type 6205 2RS 6204 2RS Max. traction : 82 lb Sealing Oil Seal Lip Seal Max. compression : 158 lb

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes

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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Thermal protection

ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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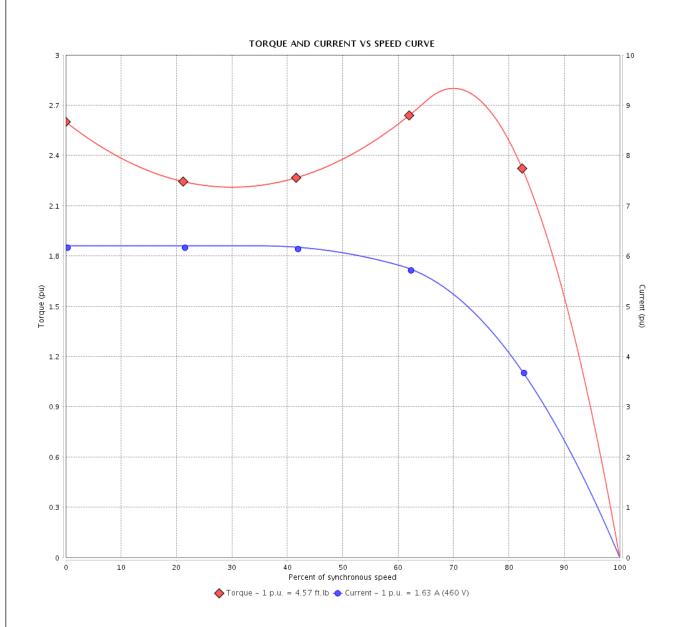


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14412517

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Catalog #: 00112XT3E145T



Performance	: 230/460 V 60 Hz 6P		
Rated current	: 3.26/1.63 A	Moment of inertia (J)	: 0.1595 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 4.57 ft.lb	Insulation class	:F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1150 rpm	Design	: B

Locked rotor time : 50s (cold) 28s (hot)

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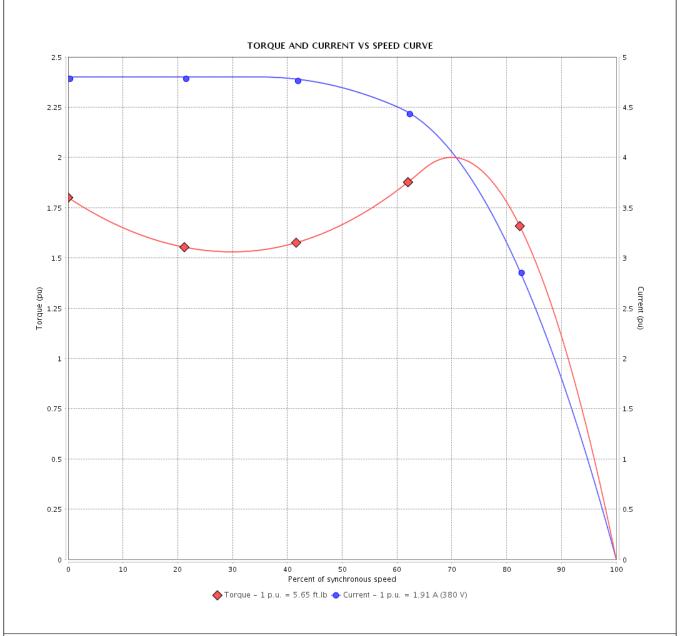
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14412517

Catalog #: 00112XT3E145T



Performance : 380 V 50 Hz 6P IE2 Rated current : 1.91 A Moment of inertia (J) : 0.1595 sq.ft.lb **LRC** : 4.8 Duty cycle : Cont.(S1) : F : 5.65 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 180 % : 1.00 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 930 rpm Design : B

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

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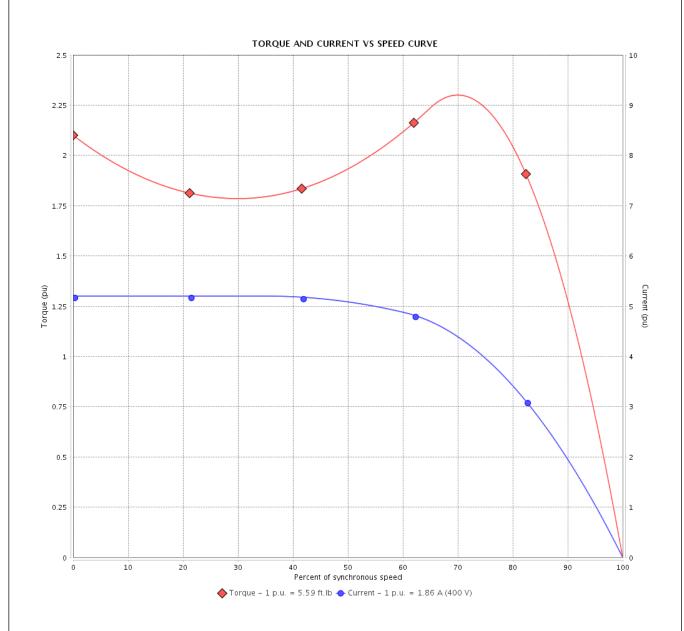


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14412517

Phase

Catalog #: 00112XT3E145T



Performance	: 400 V 50 Hz 6P IE2		
Rated current	: 1.86 A	Moment of inertia (J)	: 0.1595 sq.ft.lb
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 5.59 ft.lb	Insulation class	:F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 940 rpm	Design	: B
Locked rotor time	: 36s (cold) 20s (bot)	I	

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

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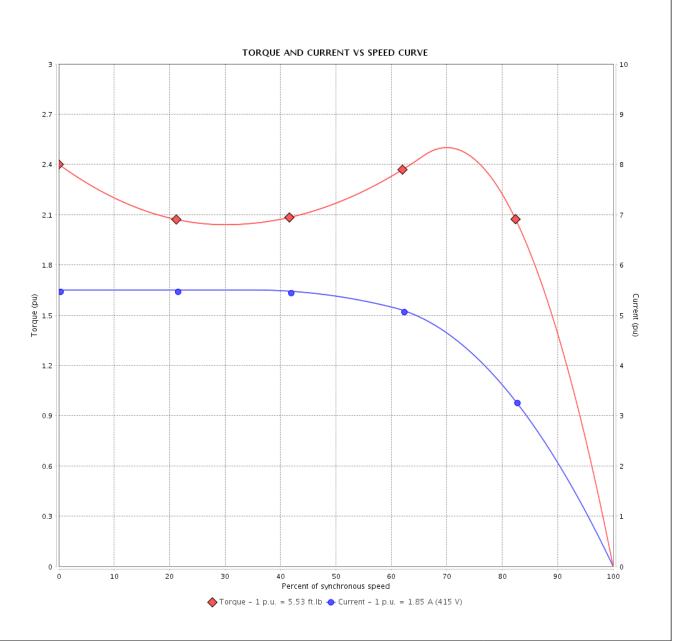
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 00112XT3E145T

14412517



Performance : 415 V 50 Hz 6P IE2 Rated current : 1.85 A Moment of inertia (J) : 0.1595 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 5.53 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 950 rpm Design : B

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

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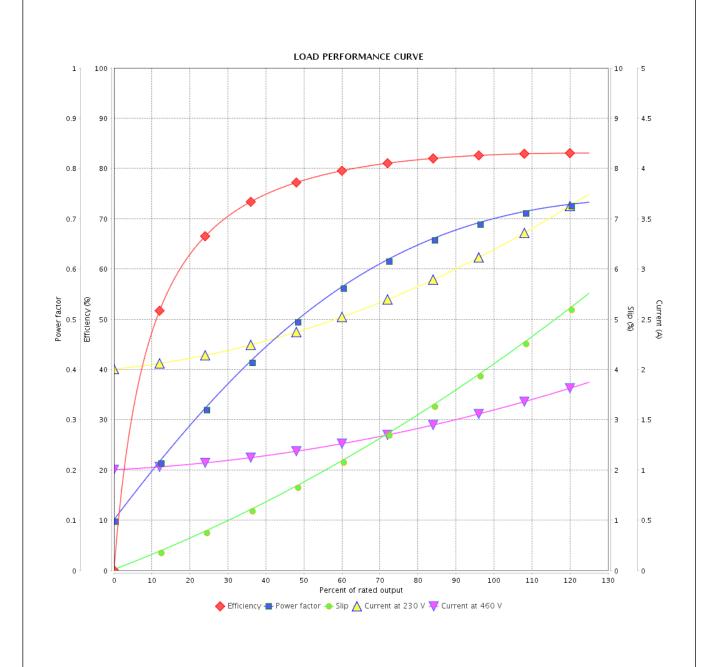


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Product line : NEMA Premium Efficiency Three- Product code : 14412517

Phase

Catalog #: 00112XT3E145T



Performance	: 23	30/460 V 60 Hz 6P				
Rated current	ed current : 3.26/1.63 A		Moment of	Moment of inertia (J)		.lb
LRC	: 6.	2	Duty cycle	}	: Cont.(S1)	
Rated torque	: 4.	57 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 26	80 %	Service fa	ctor	: 1.15	
Breakdown torque	e : 28	30 %	Temperati	Temperature rise		
Rated speed	: 11	50 rpm	Design	Design		
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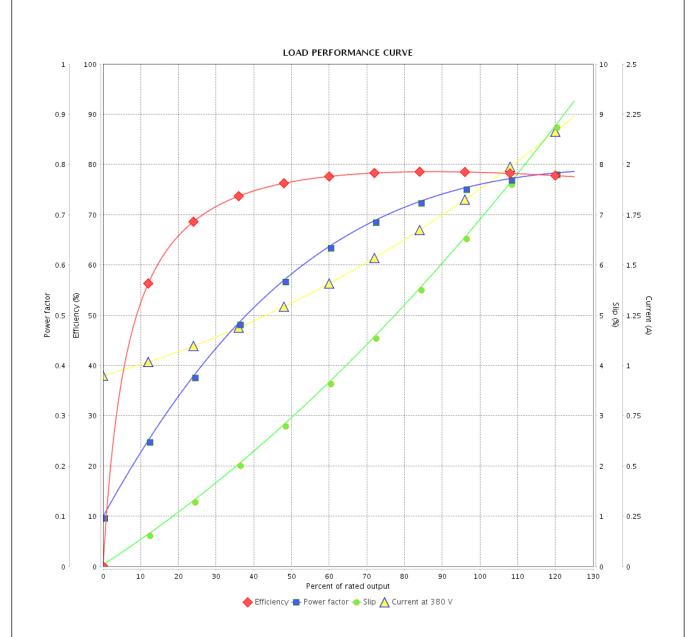


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14412517

Phase

Catalog #: 00112XT3E145T



Performance	: 380 V 50 Hz 6P IE2				
Rated current	: 1.91 A	Moment of	of inertia (J)	: 0.1595 sq.ft.	.lb
LRC	: 4.8	Duty cycle		: Cont.(S1)	
Rated torque	: 5.65 ft.lb	Insulation class		: F	
Locked rotor torque	: 180 %	Service factor		: 1.00	
Breakdown torque	: 200 %	Temperature rise		: 80 K	
Rated speed	: 930 rpm	Design		: B	
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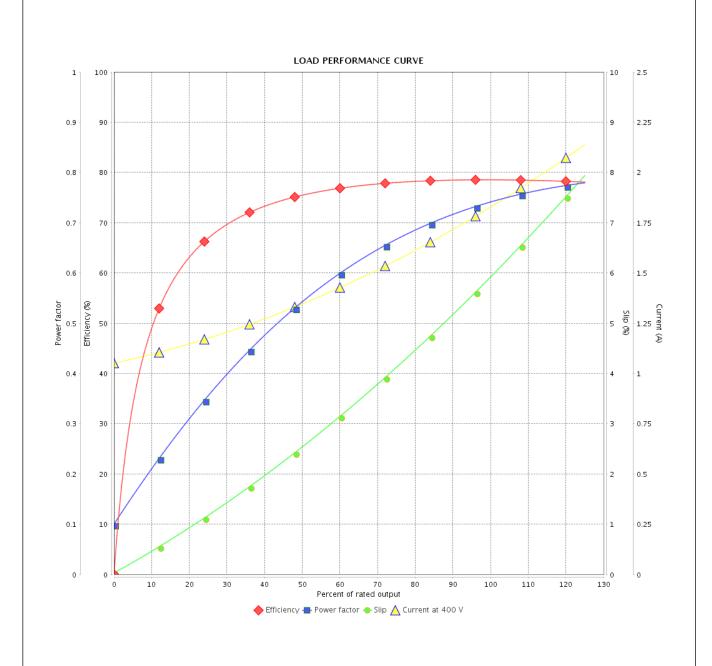


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14412517

Phase

Catalog #: 00112XT3E145T



Performance	: 4	00 V 50 Hz 6P IE2				
Rated current	: 1	86 A Moment of		of inertia (J)	: 0.1595 sq.ft.	.lb
LRC	: 5	5.2	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 5	5.59 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	10 %	Service fa	octor	: 1.00	
Breakdown torqu	e : 2	29 %	Temperature rise		: 80 K	
Rated speed	: 9	40 rpm	Design		: B	
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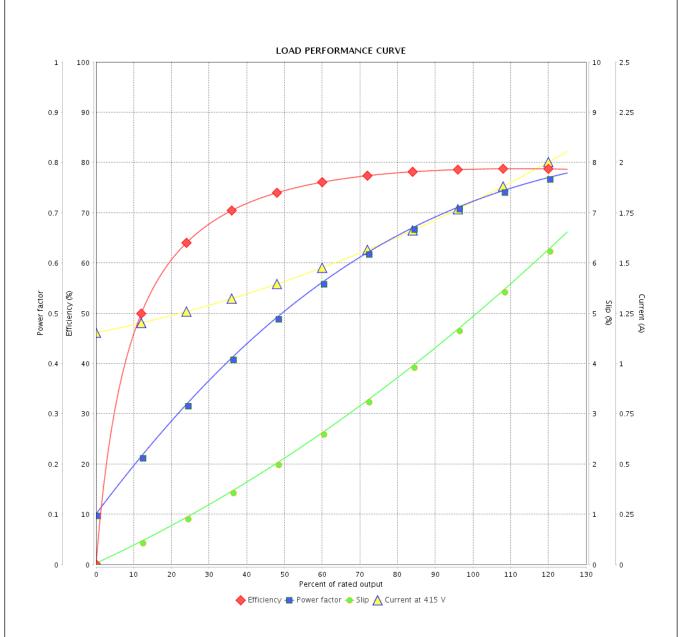
Customer :

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 14412517

Catalog #: 00112XT3E145T



Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.85 A : 5.5 : 5.53 ft.lb : 240 % : 250 % : 950 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 0.1595 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
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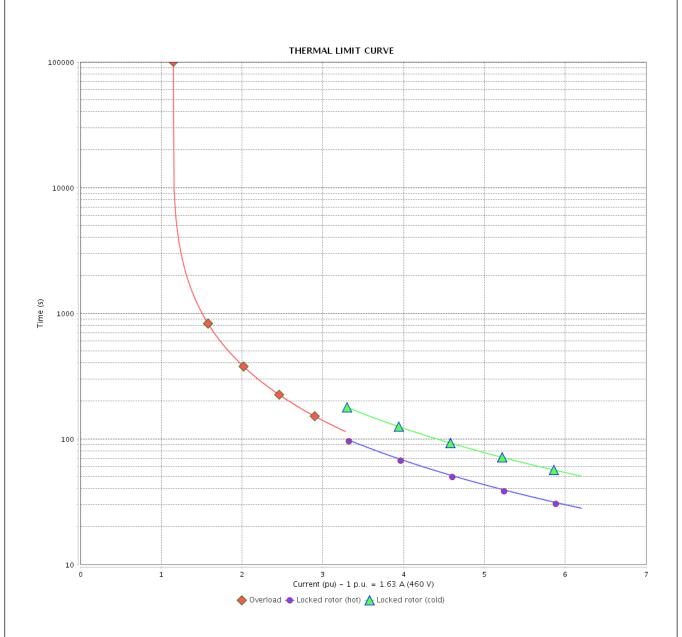


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	14412517	
FIOUUCI IIIIE		Phase				
				Catalog # :	00112XT3E1	45T
Performance		230/460 V 60 Hz 6P				
Rated current _RC		3.26/1.63 A 6.2	Moment o	of inertia (J)	: 0.1595 sq.ft.l : Cont.(S1)	b
Rated torque	:	4.57 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu	que :	260 % 280 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		1150 rpm	Design	ure rise	: B	
Heating constan			-			
Cooling constant						
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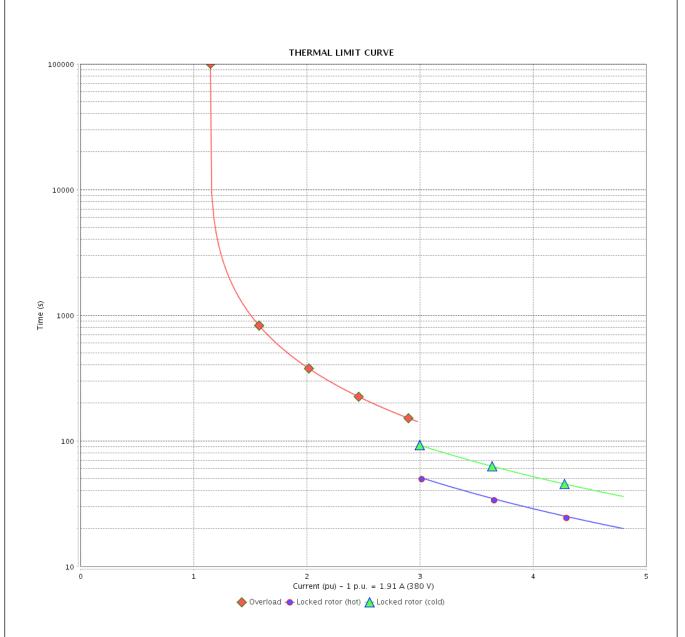


Customer	:					
Product line	:	NEMA Premium Efficiency	Three-	Product code :	14412517	
	P	Phase		Catalog # :	00112XT3E	145T
Performance Rated current .RC Rated torque .ocked rotor torque Rated speed	: 1 : 4 : 5 jue : 1 ie : 2	80 V 50 Hz 6P IE2 .91 A .8 .65 ft.lb 80 % 00 % 30 rpm	Moment of Duty cycle Insulation Service for Temperat Design	ı class actor	: 0.1595 sq.ft : Cont.(S1) : F : 1.00 : 80 K : B	.lb
Heating constant						
Cooling constant		Changes O		Do-f	Oh l- · ·	
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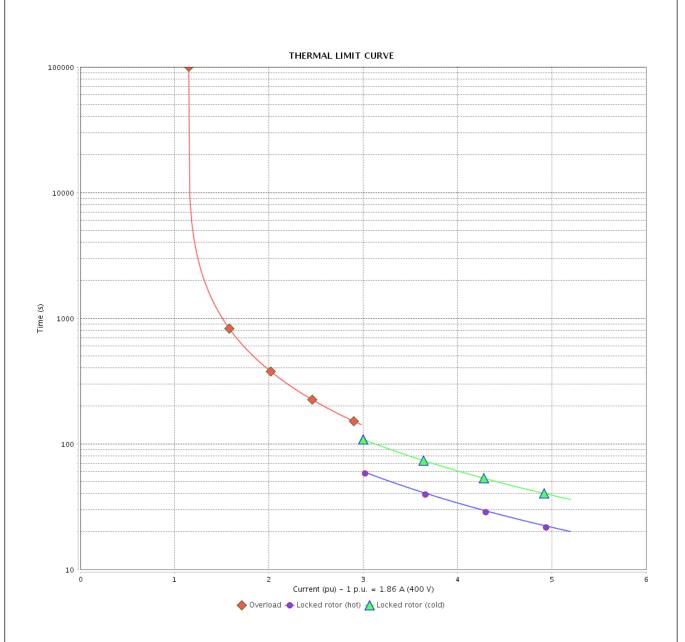


Product line		NEMA Premium Efficiency	Three-	Product code :	14412517	
1 Toddot IIITo		Phase				
				Catalog # :	00112XT3E1	45T
Performance	· 4	.00 V 50 Hz 6P IE2				
		.00 V 50 Hz 6P IE2 .86 A	Moment of	of inertia (J)	: 0.1595 sq.ft.ll	b
Rated current LRC	: 1 : 5	.86 A 5.2	Duty cycle	of inertia (J)	: 0.1595 sq.ft.ll : Cont.(S1)	b
Performance Rated current LRC Rated torque	: 1 : 5 : 5	.86 A 5.2 5.59 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	b
Rated current LRC Rated torque Locked rotor torq Breakdown torq	: 1 : 5 : 5 que : 2 ue : 2	.86 A 5.2 5.59 ft.lb 110 % 129 %	Duty cycle Insulation Service fa Temperat	e class actor	: Cont.(S1) : F : 1.00 : 80 K	b
Rated current LRC	: 1 : 5 : 5 que : 2 ue : 2	.86 A i.2 i.59 ft.lb i10 %	Duty cycle Insulation Service fa	e class actor	: Cont.(S1) : F : 1.00	b
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constan	: 1 : 5 : 5 que : 2 : 2 : 9	.86 A 5.2 5.59 ft.lb 110 % 129 %	Duty cycle Insulation Service fa Temperat	e class actor	: Cont.(S1) : F : 1.00 : 80 K	b
Rated current LRC Rated torque Locked rotor ton Breakdown torq Rated speed Heating constan Cooling constan	: 1 : 5 : 5 que : 2 : 2 : 9	.86 A 5.2 5.59 ft.lb 110 % 129 % 140 rpm	Duty cycle Insulation Service fa Temperat	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constan	: 1 : 5 : 5 que : 2 : 2 : 9	.86 A 5.2 5.59 ft.lb 110 % 129 %	Duty cycle Insulation Service fa Temperat	e class actor	: Cont.(S1) : F : 1.00 : 80 K	b
Rated current LRC Rated torque Locked rotor torge Breakdown torge Rated speed Heating constan Cooling constan Rev.	: 1 : 5 : 5 que : 2 : 2 : 9	.86 A 5.2 5.59 ft.lb 110 % 129 % 140 rpm	Duty cycle Insulation Service fa Temperat	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constan Cooling constan	: 1 : 5 : 5 que : 2 : 2 : 9	.86 A 5.2 5.59 ft.lb 110 % 129 % 140 rpm	Duty cycle Insulation Service fa Temperat	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	

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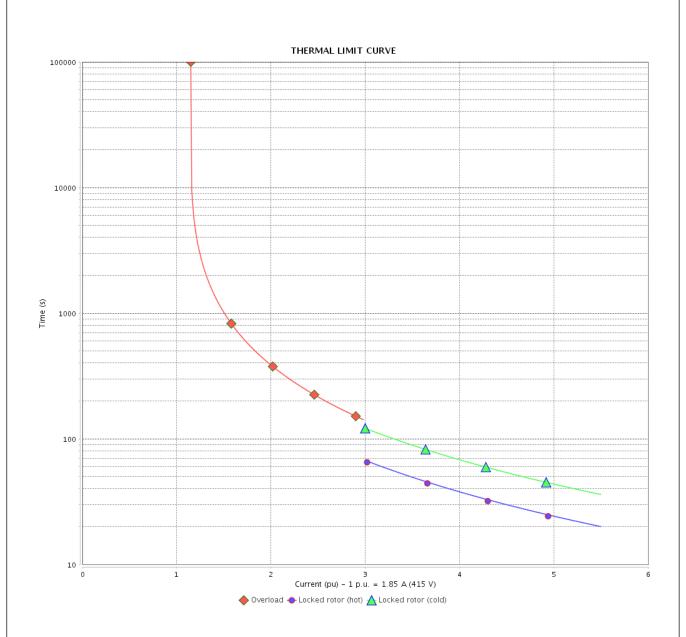


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Product line		NEMA Premium Efficiency	Three-	Product code :	14412517	
1 Toddot IIITo		Phase				
				Catalog # :	00112XT3E1	45T
Performance	• /	115 V 50 Hz 6P IE2				
Rated current		1.85 A	Moment o	of inertia (J)	: 0.1595 sq.ft.l	 h
_RC	: 5	5.5	Duty cycle	е	: Cont.(S1)	~
Rated torque ₋ocked rotor tord		5.53 ft.lb 240 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue : 2	250 %	Temperat		: 80 K	
Rated speed	: 9	950 rpm	Design		: B	
Heating constan	t					
Cooling constan	t			, ,	1	
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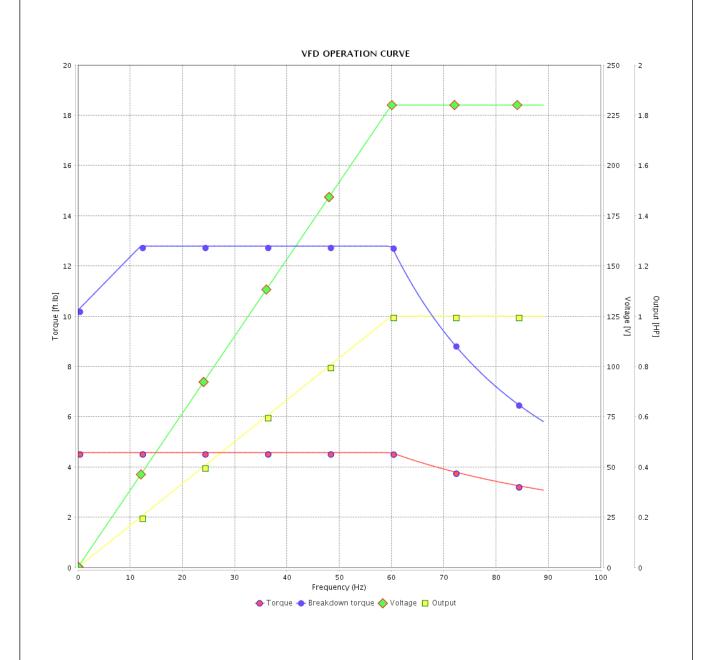


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14412517

Phase

Catalog #: 00112XT3E145T



Performance	: 23	30/460 V 60 Hz 6P				
Rated current	: 3.	26/1.63 A Moment of inertia (J)		` '	: 0.1595 sq.ft.lb	
LRC	: 6.	.2	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 4.	.57 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 26	60 %	Service fa	octor	: 1.15	
Breakdown torque	e : 28	80 %	Temperature rise		: 80 K	
Rated speed	: 11	150 rpm	Design		: B	
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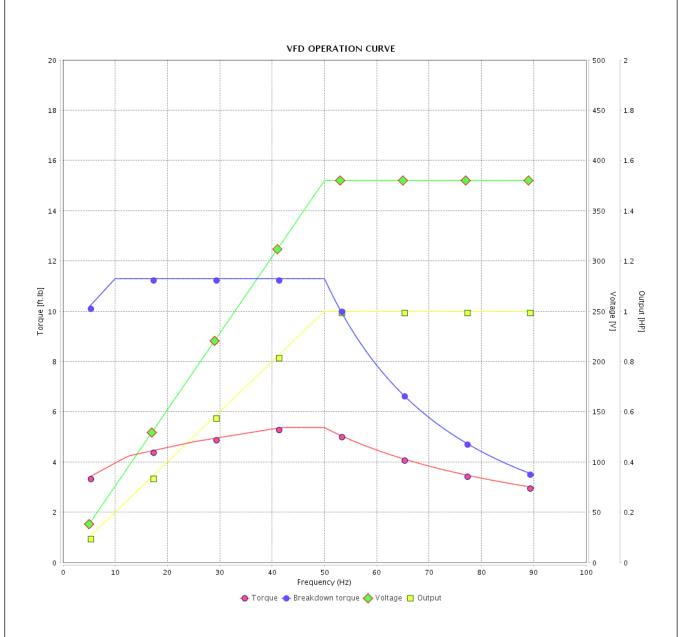
Customer :

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 14412517

Catalog #: 00112XT3E145T



Performance	: 3	80 V 50 Hz 6P IE:	2				
Rated current		: 1.91 A		Moment of inertia (J)		: 0.1595 sq.ft.lb	
LRC	: 4		Duty cycle		: Cont.(S1)		
Rated torque		.65 ft.lb	Insulation class		: F		
Locked rotor torq	jue : 18	80 %	Service factor		: 1.00		
Breakdown torqu	ie : 2	00 %	Temperat	Temperature rise		: 80 K	
Rated speed	: 99	: 930 rpm		Design			
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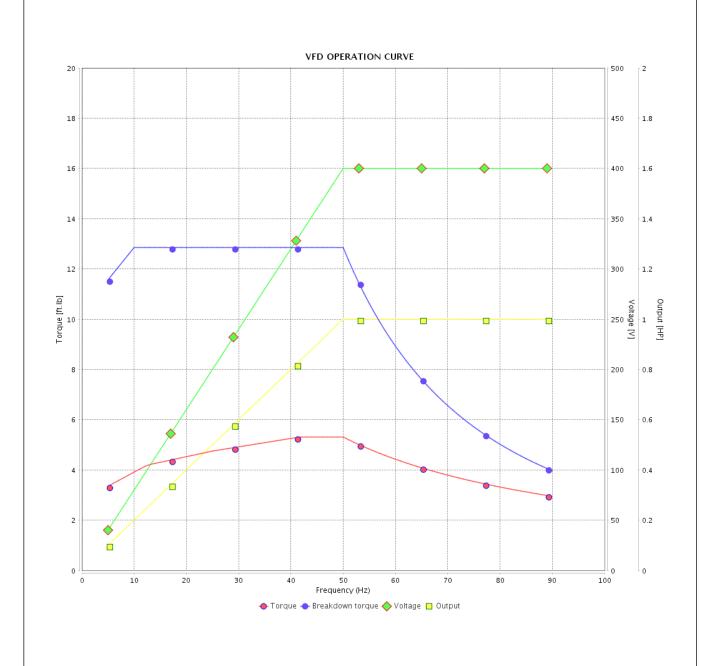
Customer

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Phase

Catalog #: 00112XT3E145T

14412517



Performance	: 40	00 V 50 Hz 6P IE2				
Rated current	: 1.	.86 A Moment of inertia (J)		of inertia (J)	: 0.1595 sq.ft.lb	
LRC		2	Duty cycle		: Cont.(S1)	
Rated torque	: 5.	59 ft.lb	Insulation class		:F Ý	
Locked rotor tord	que : 2°	10 %	Service factor		: 1.00	
Breakdown torqu	•	29 %	Temperature rise		: 80 K	
Rated speed	: 94	40 rpm	Design		: B	
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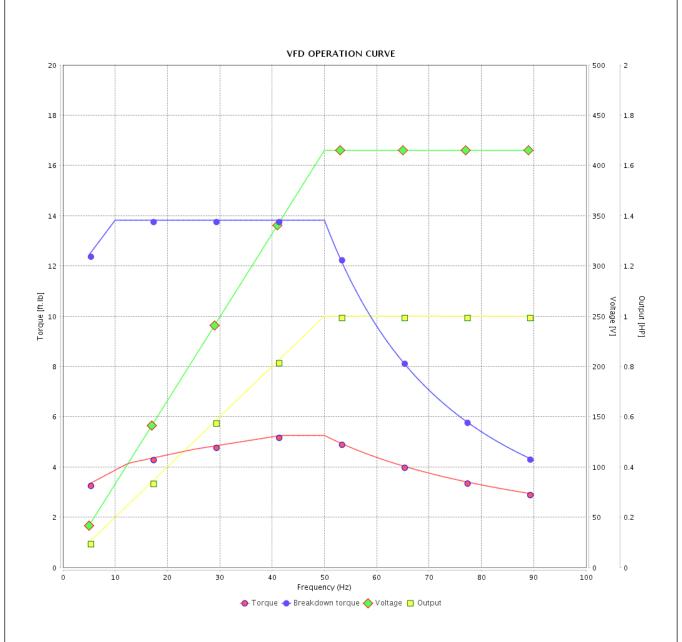
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14412517

Catalog #: 00112XT3E145T



Performance	: 415 V 50 Hz 6P IE2						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.85 A : 5.5 : 5.53 ft.lb : 240 % : 250 % : 950 rpm	Duty cycle 5.53 ft.lb Insulation class 40 % Service factor Temperature rise		: 0.1595 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
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