### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14458358

Catalog #: 00136XT3E143T

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

Insulation class Mounting : F-1

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. weight<sup>3</sup> : 69.8 lb

Protection degre Design	е	: IP55 : B	Moment of ine	Moment of inertia (J) : 0.0415 sq.ft.lb			
Output [HP]		1	1	1	1		
Poles		2	2	2	2		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		230/460	380	400	415		
Rated current [A]		2.98/1.49	1.64	1.60	1.58		
L. R. Amperes [A]		26.8/13.4	13.1	13.6	14.2		
LRC [A]		9.0x(Code M)	8.0x(Code K)	8.5x(Code L)	9.0x(Code M)		
No load current [A	]	1.30/0.650	0.650	0.700	0.750		
Rated speed [RPN	<b>/</b> []	3500	2885	2895	2905		
Slip [%]	Slip [%]		3.83	3.50	3.17		
Rated torque [ft.lb]	Rated torque [ft.lb]		1.82	1.81	1.81		
Locked rotor torqu	Locked rotor torque [%]		250	290	300		
Breakdown torque	[%]	400	300	340	370		
Service factor		1.15	1.00	1.00 1.00			
Temperature rise		80 K	80 K	80 K	80 K		
Locked rotor time		72s (cold) 40s (hot)	72s (cold) 40s (hot)	72s (cold) 40s (hot)	72s (cold) 40s (hot)		
Noise level <sup>2</sup>		68.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)		
	25%	75.2	74.4	74.4	74.4		
Efficiency (%)	50%	75.5	75.5	75.5	75.5		
Linciency (70)	75%	77.0	80.0	80.0	80.0		
	100%	77.0	80.7	80.7	80.7		
	25%	0.40	0.46	0.42	0.40		
Power Factor	50%	0.65	0.71	0.67	0.64		
I OWEI FACIOI	75%	0.76	0.81	0.78	0.76		
	100%	0.82	0.86	0.84	0.82		

Drive end Non drive end Foundation loads

Bearing type 6205 2RS 6204 2RS Max. traction : 23 lb Sealing Oil Seal Lip Seal Max. compression : 93 lb

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 3.13A SF 1.15 SFA 3.59A

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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# DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



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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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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14458358 Catalog #: 00136XT3E143T TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 1.50 ft.lb ◆ Current - 1 p.u. = 1.49 A (460 V) Performance : 230/460 V 60 Hz 2P Rated current : 2.98/1.49 A Moment of inertia (J) : 0.0415 sq.ft.lb **LRC** : 9.0 Duty cycle : Cont.(S1) : 1.50 ft.lb Insulation class : F Rated torque : 340 % Locked rotor torque Service factor : 1.15 Breakdown torque : 400 % Temperature rise : 80 K Rated speed : 3500 rpm Design : B Locked rotor time : 72s (cold) 40s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



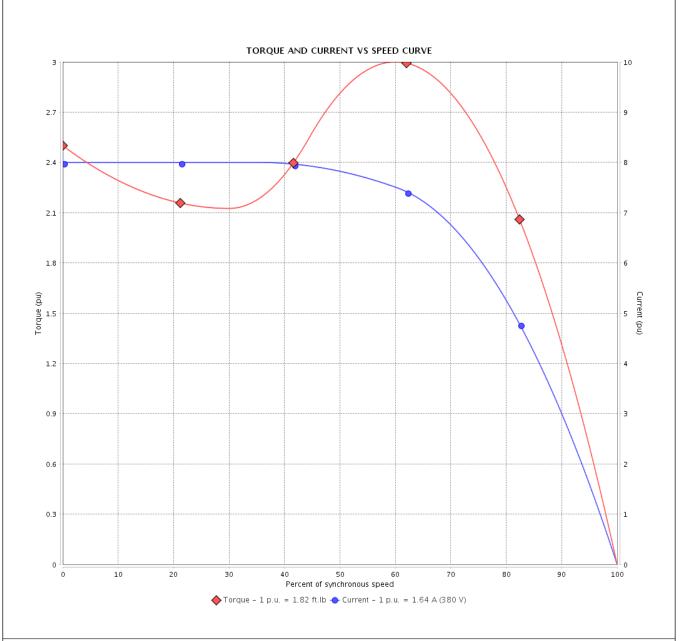
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14458358

Catalog #: 00136XT3E143T



Performance : 380 V 50 Hz 2P IE3 Rated current : 1.64 A Moment of inertia (J) : 0.0415 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 1.82 ft.lb Service factor Locked rotor torque : 250 % : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2885 rpm Design : B

Locked rotor time : 72s (cold) 40s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14458358 Catalog #: 00136XT3E143T TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 1.81 ft.lb ◆ Current - 1 p.u. = 1.60 A (400 V) Performance : 400 V 50 Hz 2P IE3 Rated current : 1.60 A Moment of inertia (J) : 0.0415 sq.ft.lb **LRC** : 8.5 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 1.81 ft.lb : 290 % Locked rotor torque Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 2895 rpm Design : B Locked rotor time : 72s (cold) 40s (hot) Date Rev. Performed Checked **Changes Summary** 

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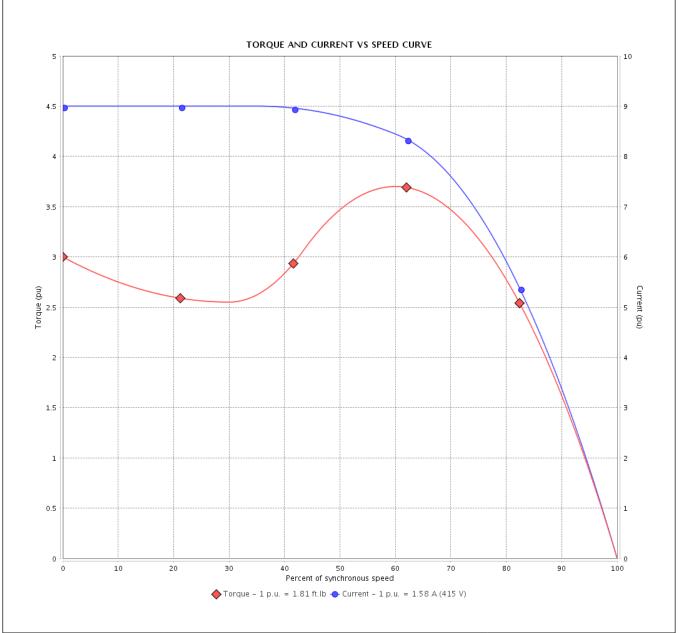
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14458358

Catalog #: 00136XT3E143T



Performance	: 415 V 50 Hz 2P IE3		
Rated current	: 1.58 A	Moment of inertia (J)	: 0.0415 sq.ft.lb
LRC	: 9.0	Duty cycle	: Cont.(S1)
Rated torque	: 1.81 ft.lb	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.00
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 2905 rpm	Design	: B
Locked roter time	: 72s (cold) 40s (bot)	1	

Locked rotor time : 72s (cold) 40s (hot)

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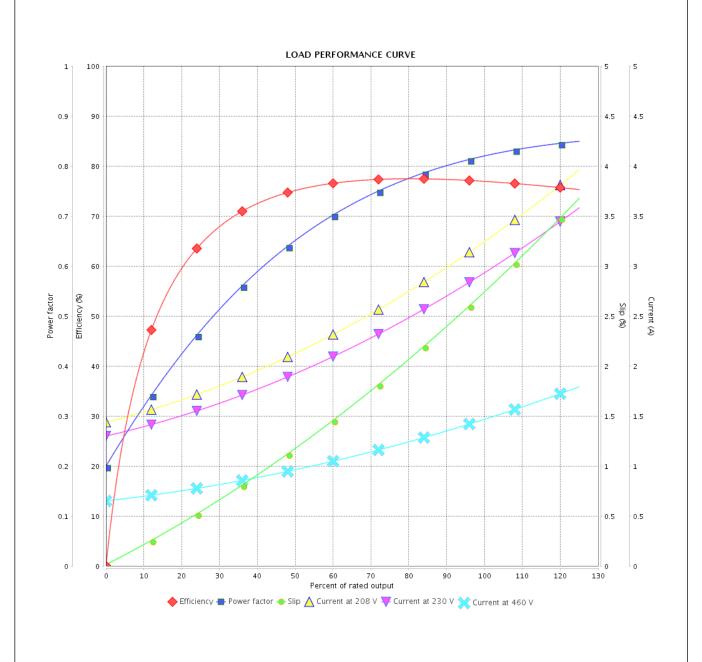
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00136XT3E143T

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Performance		: 230/460 V 60 Hz 2P				
Rated current		: 2.98/1.49 A	Moment o	f inertia (J)	: 0.0415 sq.ft.lb	
LRC		: 9.0	Duty cycle	` '	: Cont.(S1)	
Rated torque		: 1.50 ft.lb	Insulation		: F ` ´	
Locked rotor torque	9 :	: 340 %	Service fa	ctor	: 1.15	
Breakdown torque		: 400 %	Temperature rise		: 80 K	
Rated speed		: 3500 rpm		Design		
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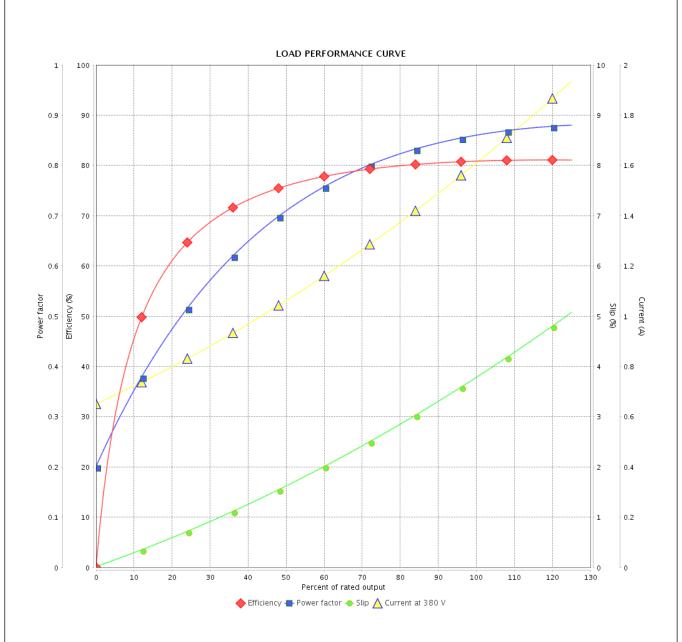
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14458358

Catalog #: 00136XT3E143T



Performance : 380 V 50 Hz 2P IE3 : 1.64 A Rated current Moment of inertia (J) : 0.0415 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.0 : 1.82 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2885 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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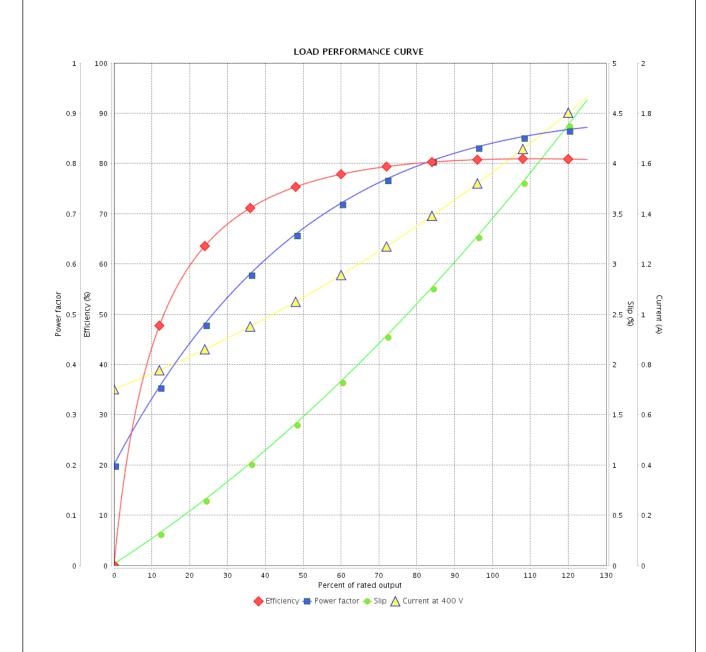
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 14458358

Catalog #: 00136XT3E143T



Performance	: 400 V 50 Hz 2P IE3				
Rated current	: 1.60 A	Moment o	f inertia (J)	: 0.0415 sq.ft.	lb
LRC	: 8.5	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	: 1.81 ft.lb	Insulation	class	: F	
Locked rotor torque	: 290 %	Service factor Temperature rise		: 1.00	
Breakdown torque	: 340 %			: 80 K	
Rated speed	: 2895 rpm	Design		: B	
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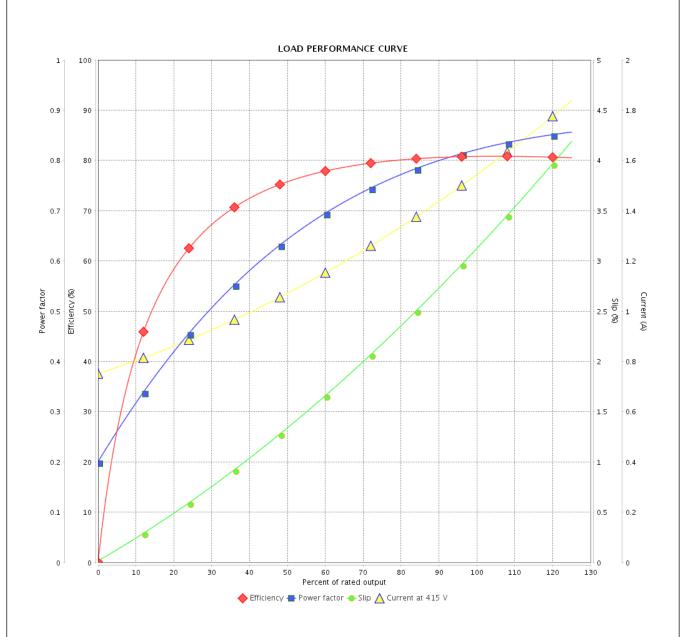
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14458358

Catalog #: 00136XT3E143T



Performance	: 415 V 50 Hz 2P IE3				
Rated current	: 1.58 A	Moment of	of inertia (J)	: 0.0415 sq.ft	.lb
LRC	: 9.0	Duty cycle	9	: Cont.(S1)	
Rated torque	: 1.81 ft.lb	Insulation	class	: F	
Locked rotor torque	: 300 %	Service factor Temperature rise Design		: 1.00 : 80 K : B	
Breakdown torque	: 370 %				
Rated speed	: 2905 rpm				
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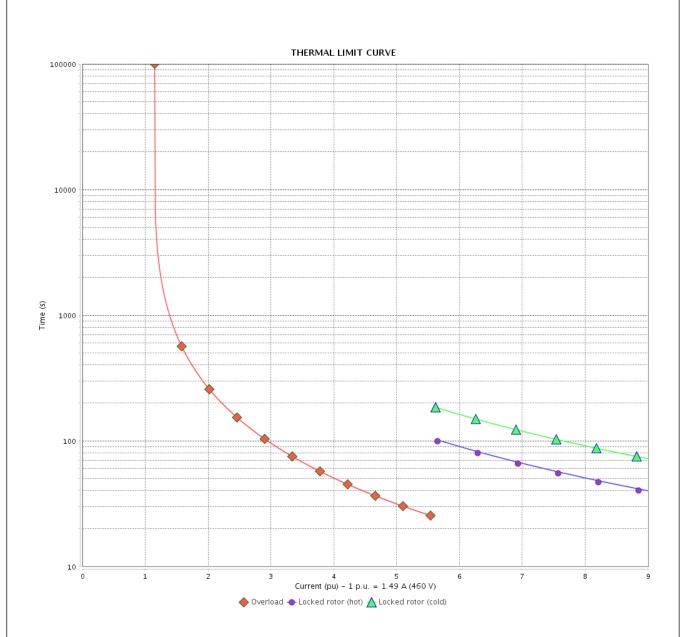


Customer	:					
Product line	: I P	NEMA Premium Efficiency <sup>*</sup>		Product code : Catalog # :	14458358 00136XT3E	143T
Performance		30/460 V 60 Hz 2P				
LRC Rated torque Locked rotor torque Breakdown torque		: 9.0       Duty cy         : 1.50 ft.lb       Insulat         : 340 %       Service		class	: 0.0415 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
Heating constan Cooling constan						
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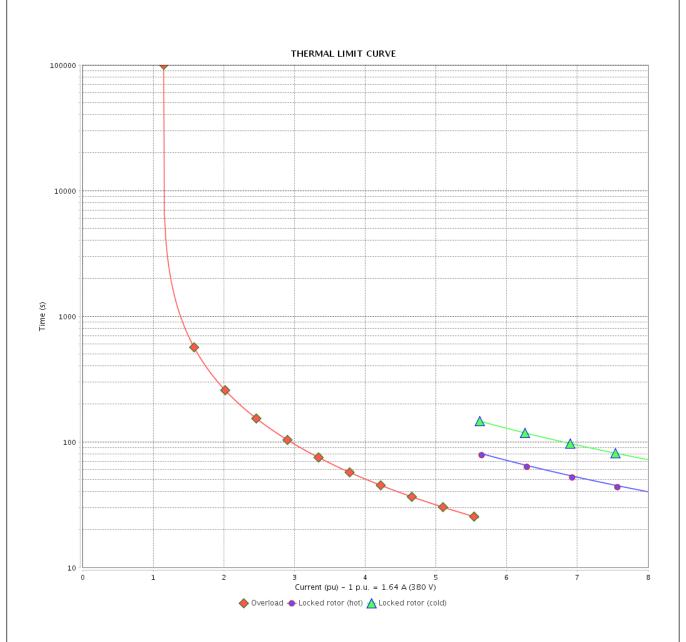


Product line : NEMA Premium Efficiency Three-Product code : 14458358 Catalog # : 00136XT3E14	43T
	43T
Performance : 380 V 50 Hz 2P IE3	
Rated current : 1.64 A Moment of inertia (J) : 0.0415 sq.ft.lb	
RC : 8.0 Duty cycle : Cont.(S1)	•
Rated torque : 1.82 ft.lb Insulation class : F ocked rotor torque : 250 % Service factor : 1.00	
Breakdown torque : 300 % Temperature rise : 80 K	
Rated speed : 2885 rpm Design : B	
Heating constant	
Cooling constant	
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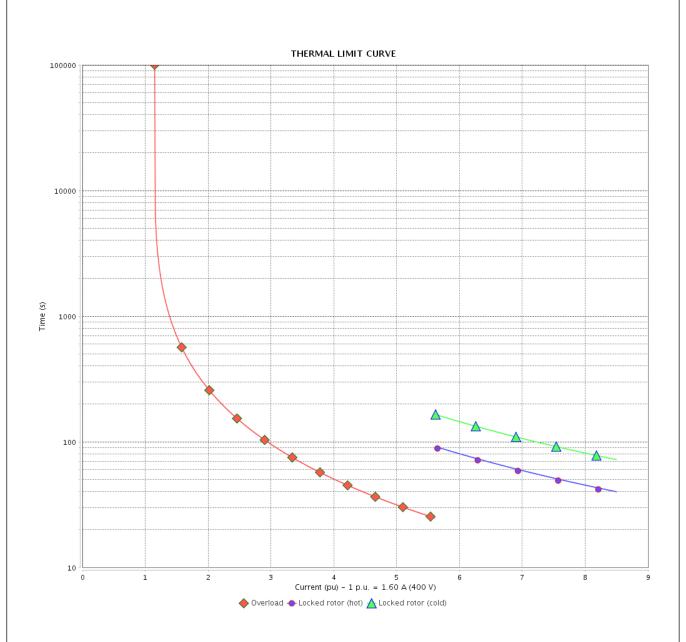


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Product line	: t Pi	NEMA Premium Efficiency hase		Product code : Catalog # :	14458358 00136XT3E	143T
Performance	: 40	00 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 1. : 8. : 1. que : 29 ue : 34	60 A	Moment of Duty cycle Insulation Service fa Temperati Design	class actor	: 0.0415 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Heating constant						
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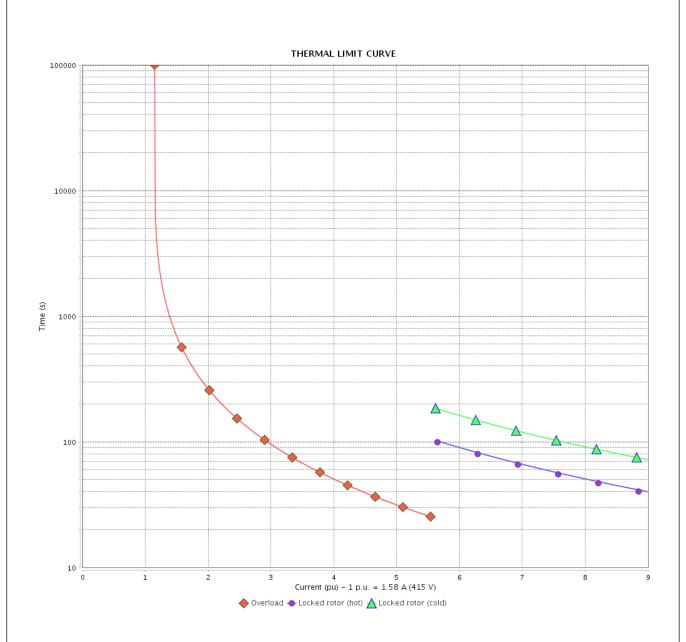


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Product line	,	: NEMA Premium Efficiency	/ Three-	Product code :	14458358	
i roddot iirio		Phase				40.
				Catalog # :	00136XT3E1	431
	<u>,                                      </u>					
Performance		415 V 50 Hz 2P IE3	1			
Rated current LRC		1.58 A 9.0	Moment of Duty cycle	of inertia (J)	: 0.0415 sq.ft.l : Cont.(S1)	b
Rated torque		1.81 ft.lb	Insulation	class	: F	
Locked rotor tord	que :	300 %	Service fa		: 1.00	
Breakdown torqu Rated speed		370 % 2905 rpm	Temperat Design	ure rise	: 80 K : B	
		· <del> -</del> · · <del> -</del> · · · · · · · · · · · · · · · · · · ·			- <del>-</del>	
Heating constant Cooling constant						
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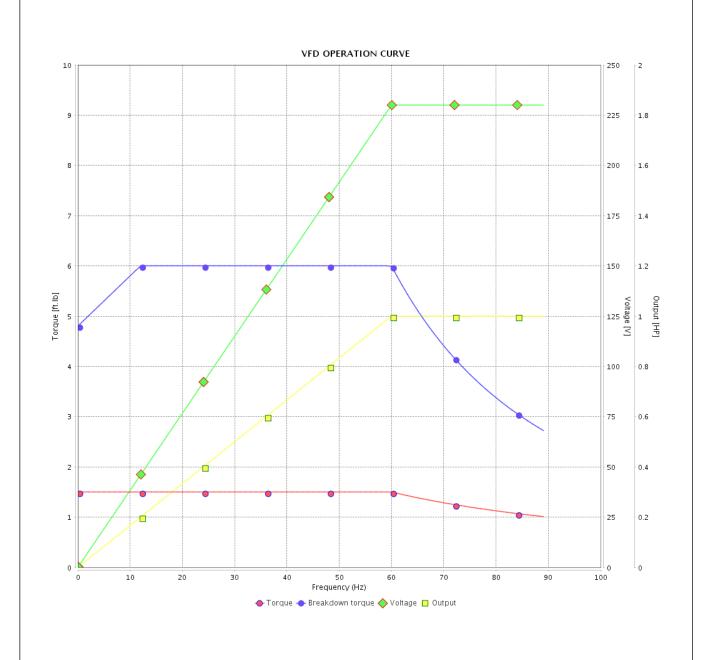


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14458358

Phase

Catalog #: 00136XT3E143T



Performance	: 23	30/460 V 60 Hz 2P				
Rated current	: 2.	98/1.49 A	Moment o	nt of inertia (J) : 0.0415 sq.ft.lt		.lb
LRC	: 9.	.0	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 1.	.50 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 34	40 %	Service fa	octor	: 1.15	
Breakdown torque :		00 %	Temperature rise		: 80 K : B	
Rated speed	: 3	Design				
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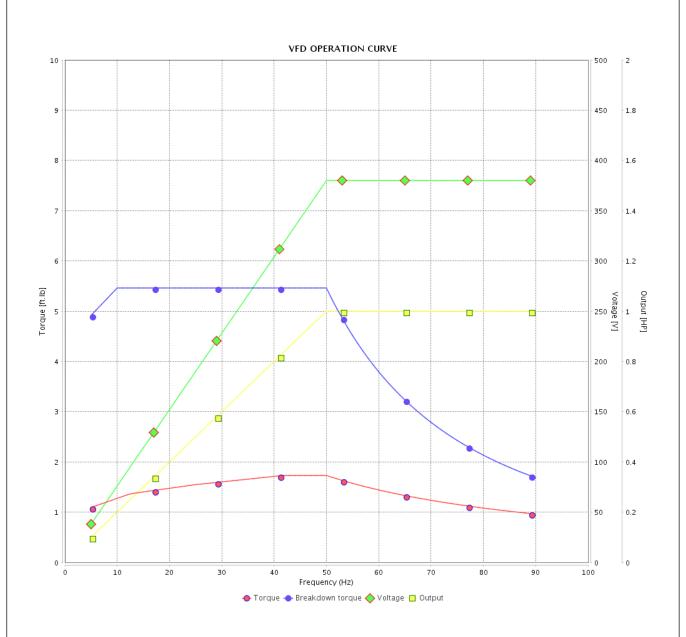
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 14458358

Catalog #: 00136XT3E143T



Performance	: 380 V 50 Hz 2P IE3				
Rated current	: 1.64 A	1	Moment of inertia (J)		lb
LRC Rated torque	: 8.0 : 1.82 ft.lb	Duty cycle Insulation class		: Cont.(S1) : F	
Locked rotor torque	: 250 %	Service factor Temperature rise Design		: 1.00 : 80 K : B	
Breakdown torque Rated speed	: 300 % : 2885 rpm				
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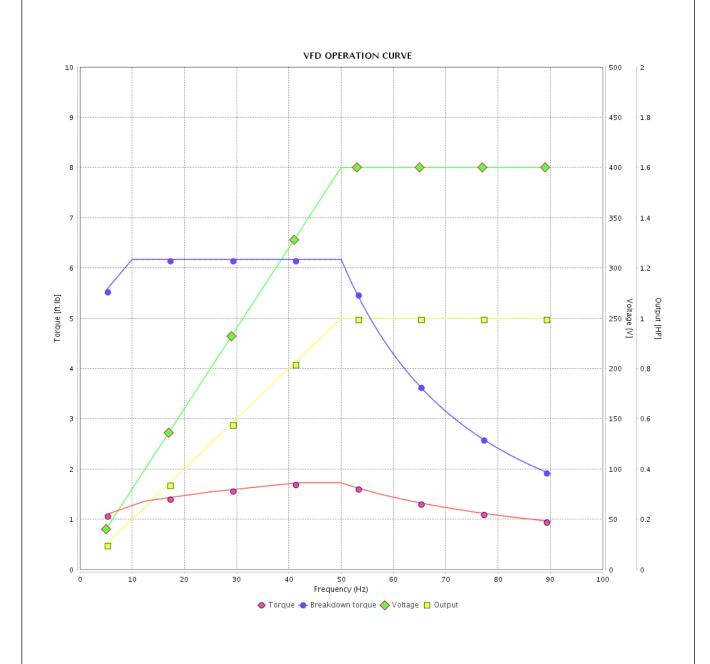
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14458358

Catalog #: 00136XT3E143T



Performance	: 40	00 V 50 Hz 2P IE3				
Rated current	: 1.	60 A	Moment o	of inertia (J)	: 0.0415 sq.ft.lb	
LRC	: 8.	5	Duty cycle	•	: Cont.(S1)	
Rated torque	: 1.	81 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 29	90 %	Service fa	ictor	: 1.00	
Breakdown torque	e : 34	40 %	% Temperature rise		: 80 K	
Rated speed	: 28	395 rpm	Design		: B	
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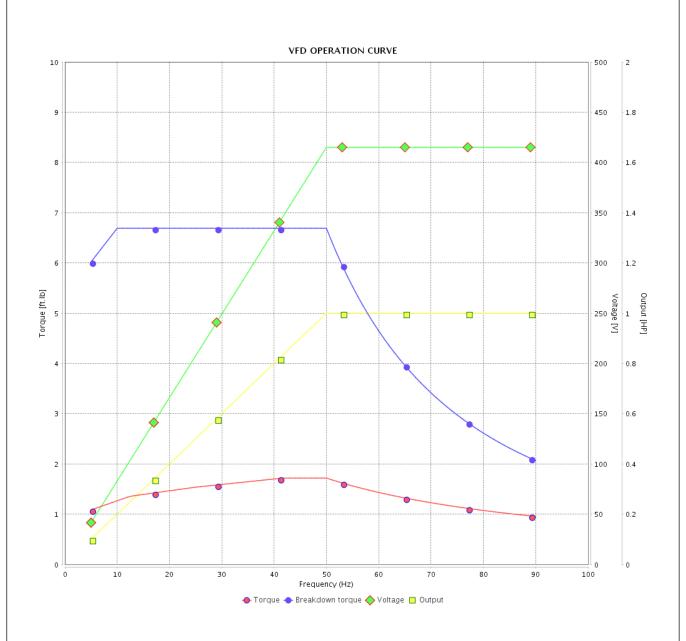
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14458358

Catalog #: 00136XT3E143T



Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.58 A : 9.0 : 1.81 ft.lb : 300 % : 370 % : 2905 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 0.0415 sq.ft : Cont.(S1) : F : 1.00 : 80 K : B	lb
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