## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14480957

Phase

Catalog #: 00156XT3E143T

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

Insulation class : F 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> : 70.1 lb

Protection degre Design	е	: IP55 : B	· · ·		13 sq.ft.lb
Output [HP]		1.5	1.5	1.5	1.5
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		4.10/2.05	2.36	2.32	2.29
L. R. Amperes [A]		37.7/18.9	18.9	19.5	19.9
LRC [A]		9.2x(Code M)	8.0x(Code K)	8.4x(Code L)	8.7x(Code L)
No load current [A	]	2.00/1.00	0.900	1.00	1.10
Rated speed [RPM]		3500	2860	2885	2895
Slip [%]		2.78	4.67	3.83	3.50
Rated torque [ft.lb]		2.25	2.75	2.73	2.72
Locked rotor torque [%]		340	280	320	360
Breakdown torque	Breakdown torque [%]		300	330	360
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		36s (cold) 20s (hot)	19s (cold) 11s (hot)	(cold) 11s (hot) 19s (cold) 11s (hot)	
Noise level <sup>2</sup>		68.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)
	25%	76.9	79.0	79.6	82.4
Efficiency (%)	50%	78.5	79.5	80.0	81.5
Elliciency (%)	75%	82.5	82.5	82.5	84.0
	100%	84.0	82.5	82.5	82.5
	25%	0.38	0.46	0.42	0.38
Power Factor	50%	0.62	0.70	0.66	0.63
1 OWEI FACIOI	75%	0.73	0.81	0.77	0.74
	100%	0.80	0.86	0.83	0.81

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

Bearing type : 6205 2RS 6204 2RS Max. traction : 50 lb Sealing : Oil Seal Lip Seal Max. compression : 120 lb

Lubrication interval : - - - Lubricant amount : - -

Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 4.53A SF 1.15 SFA 5.21A

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	
Customer	

#### Thermal protection

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

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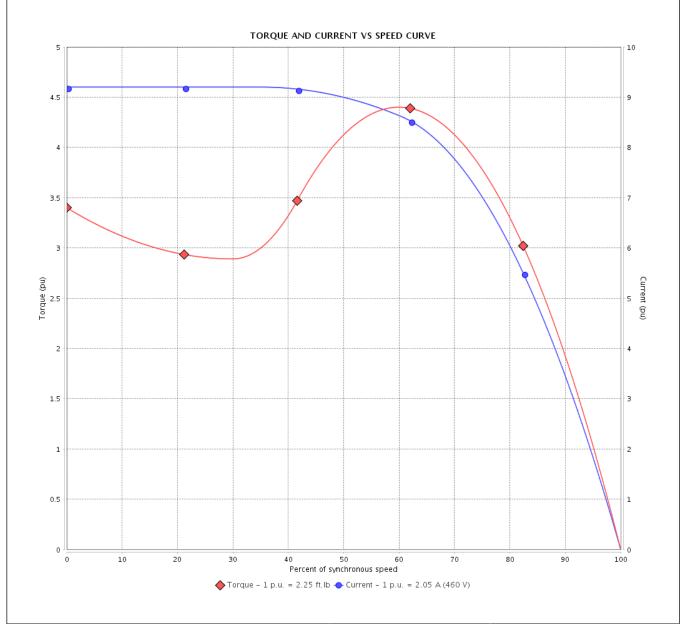


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14480957

Phase

Catalog #: 00156XT3E143T



Performance	: 230/460 V 60 Hz 2P			
Rated current	: 4.10/2.05 A	Moment of inertia (J)	: 0.0413 sq.ft.lb	
LRC	: 9.2	Duty cycle	: Cont.(S1)	
Rated torque	: 2.25 ft.lb	Insulation class	: F	
Locked rotor torque	: 340 %	Service factor	: 1.15	
Breakdown torque	: 440 %	Temperature rise	: 80 K	
Rated speed	: 3500 rpm	Design	: B	

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

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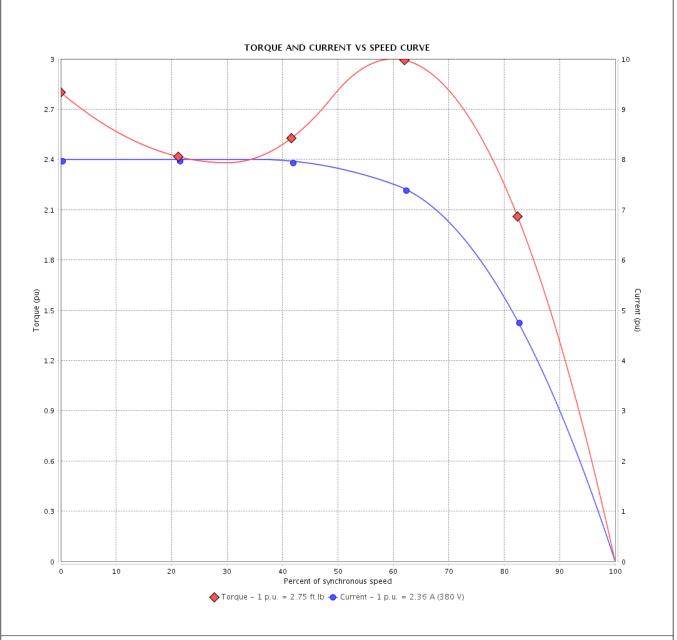
Customer :

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 14480957

Catalog #: 00156XT3E143T



Performance : 380 V 50 Hz 2P IE2 Rated current : 2.36 A Moment of inertia (J) : 0.0413 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.75 ft.lb Service factor Locked rotor torque : 280 % : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2860 rpm Design : B

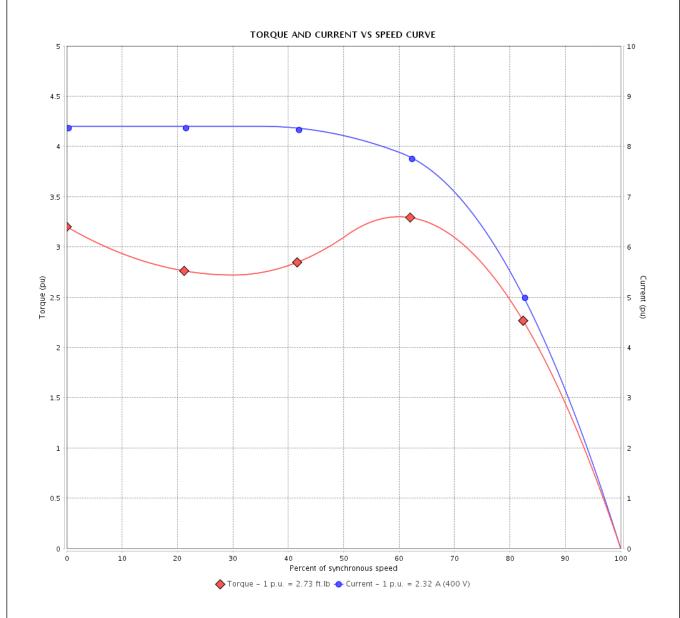
Locked rotor time : 19s (cold) 11s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14480957 Catalog #: 00156XT3E143T



Performance : 400 V 50 Hz 2P IE2 Rated current : 2.32 A Moment of inertia (J) : 0.0413 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) : 2.73 ft.lb Insulation class : F Rated torque Locked rotor torque : 320 % Service factor : 1.00 : 80 K Breakdown torque : 330 % Temperature rise : B Rated speed : 2885 rpm Design Locked rotor time : 19s (cold) 11s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



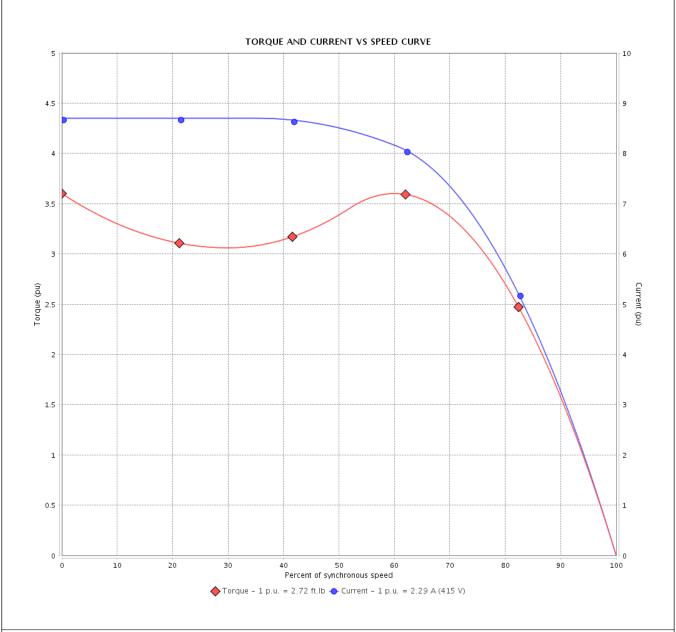
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14480957

Catalog #: 00156XT3E143T



Performance : 415 V 50 Hz 2P IE2 Rated current : 2.29 A Moment of inertia (J) : 0.0413 sq.ft.lb **LRC** : 8.7 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.72 ft.lb Service factor Locked rotor torque : 360 % : 1.00 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : B : 2895 rpm Design

Locked rotor time : 19s (cold) 11s (hot)

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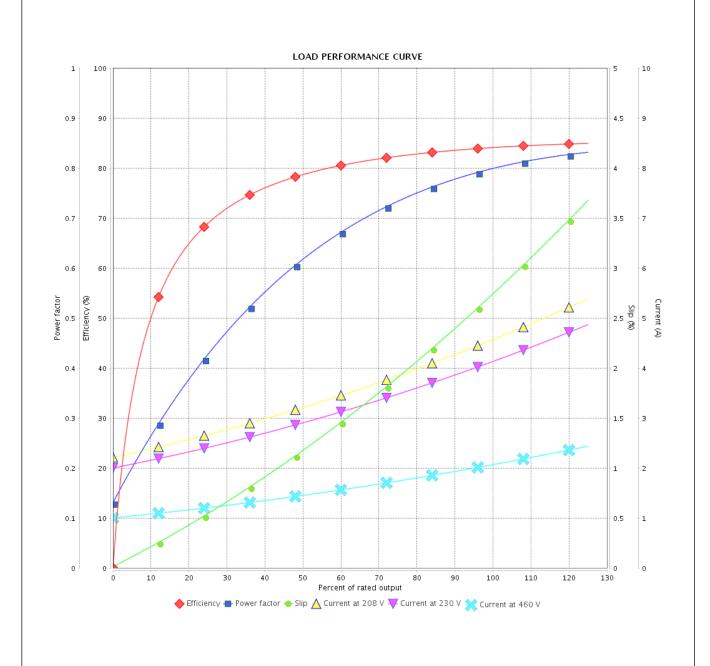


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14480957

Phase

Catalog #: 00156XT3E143T



			**			
Performance	:	230/460 V 60 Hz 2P				
Rated current	:	4.10/2.05 A	Moment o	f inertia (J)	: 0.0413 sq.ft	.lb
LRC	:	9.2	Duty cycle	)	: Cont.(S1)	
Rated torque	:	2.25 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	340 %	Service factor		: 1.15	
Breakdown torque	:	440 %	Temperature rise		: 80 K	
Rated speed	:	3500 rpm	Design		: B	
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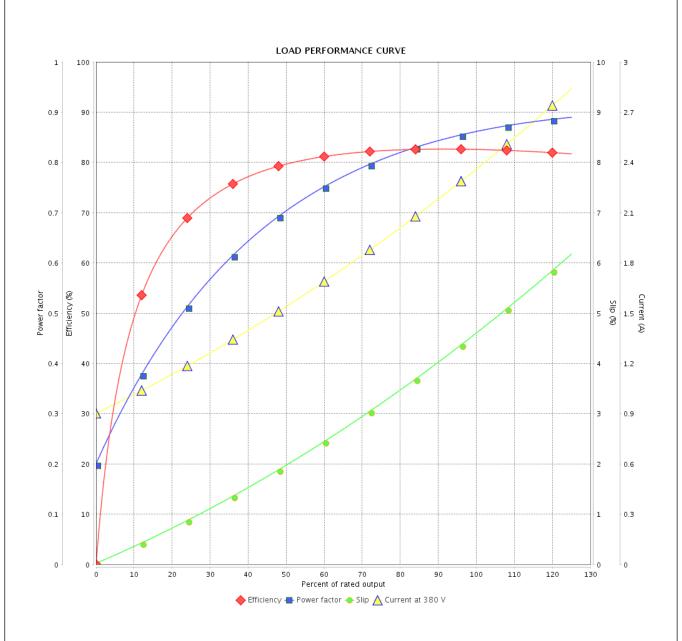
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14480957

Catalog #: 00156XT3E143T



Performance	: 380 V 50 Hz 2P IE2				
Rated current	: 2.36 A	Moment o	f inertia (J)	: 0.0413 sq.ft.	.lb
LRC	: 8.0	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 2.75 ft.lb	Insulation class Service factor Temperature rise Design		: F ` ´	
Locked rotor torque	: 280 %			: 1.00	
Breakdown torque	: 300 %			: 80 K	
Rated speed	: 2860 rpm			: B	
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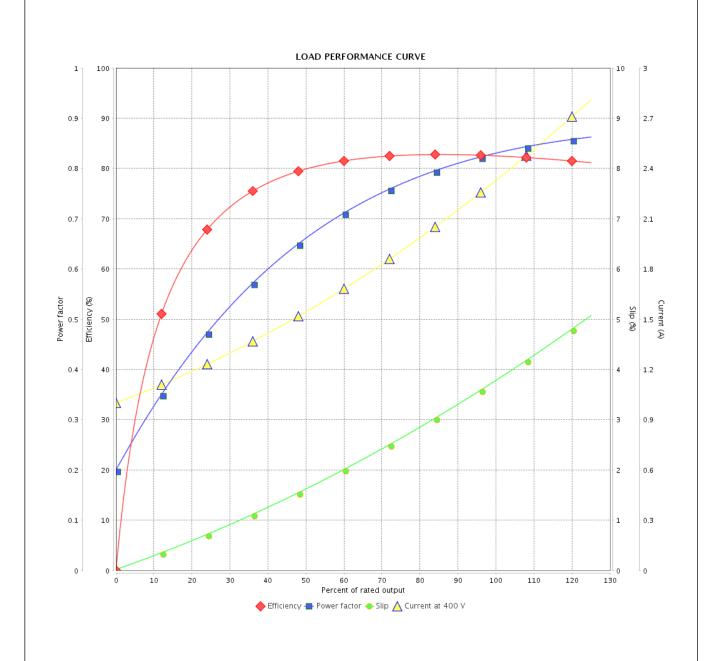


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14480957

Phase

Catalog #: 00156XT3E143T



Performance	:	: 400 V 50 Hz 2P IE2					
Rated current		2.32 A	Moment o	f inertia (J)	: 0.0413 sq.ft.lb		
LRC		8.4	Duty cycle	)	: Cont.(S1)		
Rated torque		2.73 ft.lb	Insulation	class	: F		
Locked rotor torque		320 %	Service fa	Service factor : 1.00			
Breakdown torque	:	330 %	Temperati	Temperature rise		: 80 K	
Rated speed	:	2885 rpm	Design	Design			
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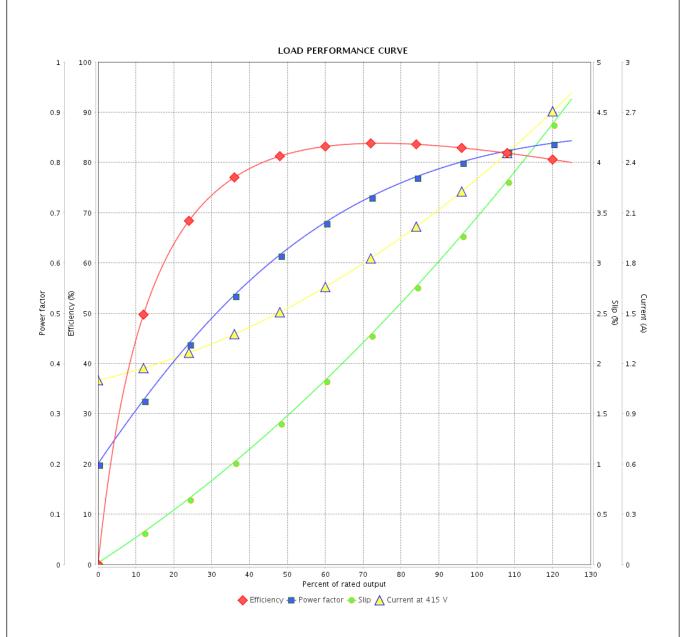
Customer

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14480957

Catalog #: 00156XT3E143T



Performance	· 4	15 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		2.29 A 3.7 2.72 ft.lb 660 % 660 % 8895 rpm	Moment o Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		.lb
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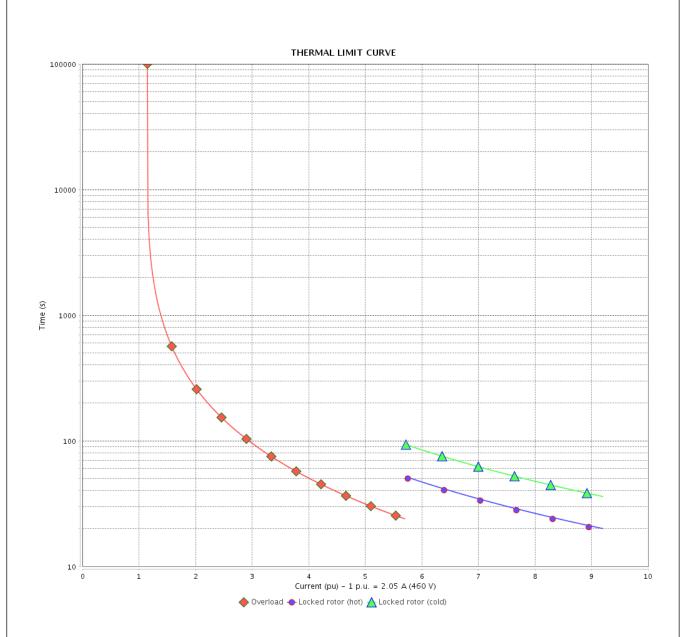


Product line	Customer	:					
Rated current LRC : 9.2 Rated torque : 2.25 ft.lb Locked rotor torque : 340 % Breakdown torque : 440 % Rated speed : 3500 rpm  Heating constant Cooling constant  Rev. Changes Summary Performed Checked Date  Performed by Checked by  Moment of inertia (J) : 0.0413 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.15 Temperature rise : 80 K Design : B  Performed Checked Date	Product line						143T
Rated current LRC : 9.2 Rated torque : 2.25 ft.lb Locked rotor torque : 340 % Breakdown torque : 440 % Rated speed : 3500 rpm  Heating constant Cooling constant  Rev. Changes Summary Performed Checked Date  Performed by Checked by  Moment of inertia (J) : 0.0413 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.15 Temperature rise : 80 K Design : B  Performed Checked Date							
Heating constant Cooling constant  Rev. Changes Summary Performed Checked Date  Performed by Checked by Page Revision	Rated current LRC Rated torque Locked rotor tord Breakdown torqu	: 4. : 9. : 2. que : 3 <sup>2</sup> ue : 4 <sup>2</sup>	10/2.05 A .2 .25 ft.lb 40 % 40 %	Duty cycle Insulation Service fa Temperate	e class actor	: Cont.(S1) : F : 1.15 : 80 K	lb
Rev. Changes Summary Performed Checked Date  Performed by Checked by Page Revision	Heating constan	t					
Checked by Page Revision	Rev.		Changes Summary		Performed	Checked	Date
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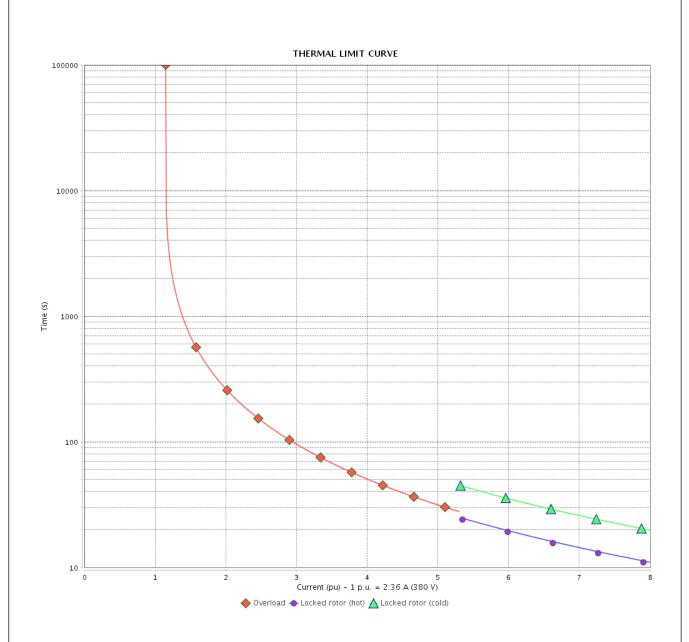


Customer	:					
Product line		NEMA Premium Efficiency	Three	Product code :	14480957	
i roduct iirie		Phase				
				Catalog # :	00156XT3E1	43T 
Performance		80 V 50 Hz 2P IE2				
Rated current		.36 A	Moment o	of inertia (J)	: 0.0413 sq.ft.l	h
LRC	: 8	.0	Duty cycle	Э	: Cont.(S1)	D
Rated torque Locked rotor tord		75 ft.lb .80 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue :3	00 %	Temperat		: 80 K	
Rated speed		860 rpm	Design		: B	
Heating constan	t					
Cooling constan						
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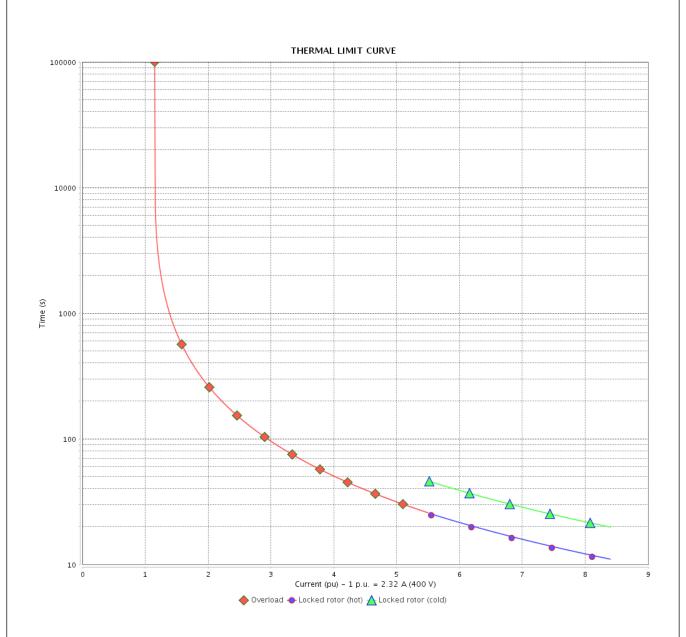


Customer	:					
Product line	<u>:</u>	NEMA Premium Efficiency	Three-	Product code :	14480957	
	F	Phase		Catalog # :	00156XT3E	143T
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		2.00 V 50 Hz 2P IE2 2.32 A 3.4 2.73 ft.lb 320 % 330 % 2885 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	ı class actor	: 0.0413 sq.ft : Cont.(S1) : F : 1.00 : 80 K : B	lb
Heating constant						
Cooling constant		Observes O		D. (	Ol- '	5 :
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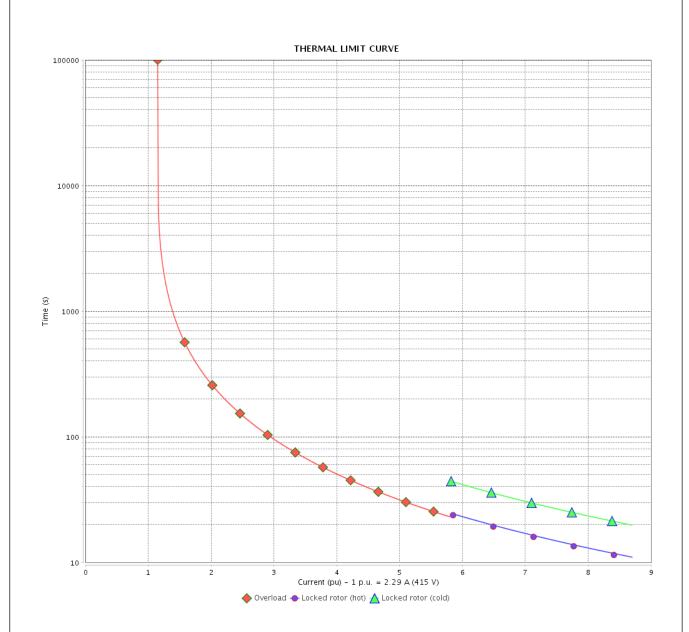


Customer	:					
Product line		NEMA Premium Efficiency	Throo	Product code :	14480957	
i roduct line		Phase				
				Catalog # :	00156XT3E1	43T
D. (		145.V 50.11. OD 150				
Performance Rated current		115 V 50 Hz 2P IE2 2.29 A	Moment	of inertia (J)	: 0.0413 sq.ft.l	
LRC		3.7	Duty cycle	e	: Cont.(S1)	D
Rated torque		2.72 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord	que :3	360 % 360 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		2895 rpm	Design		: B	
Heating constan						
Cooling constan						
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## Three Phase Induction Motor - Squirrel Cage



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Phase

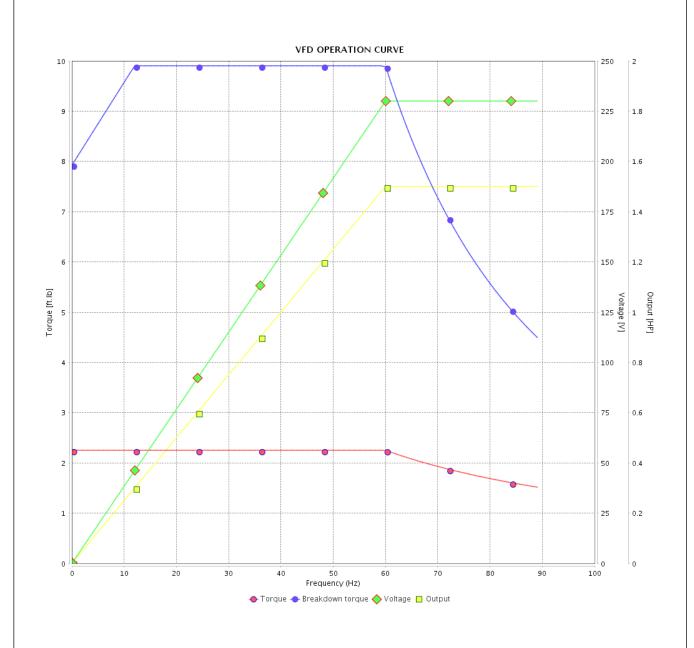
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Performance		: 230/460 V 60	Hz 2P				
Rated current : 4.10/2.05 A LRC : 9.2 Rated torque : 2.25 ft.lb Locked rotor torque : 340 % Breakdown torque : 440 % Rated speed : 3500 rpm		Moment of inertia (J) : 0.0413 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.15  Temperature rise : 80 K  Design : B		lb			
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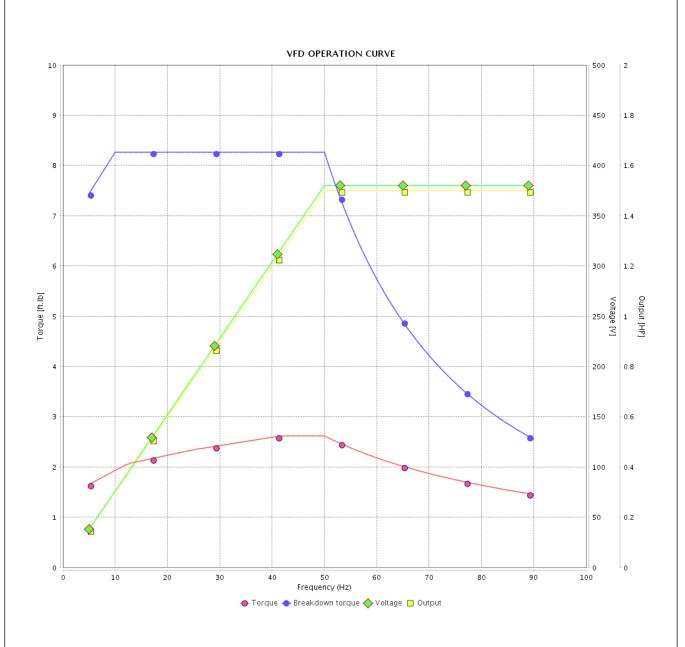
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Phase

Product code: 14480957

Catalog #: 00156XT3E143T



Performance	: 3	80 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 2 jue : 2	2.36 A 5.0 2.75 ft.lb 80 % 900 % 860 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0413 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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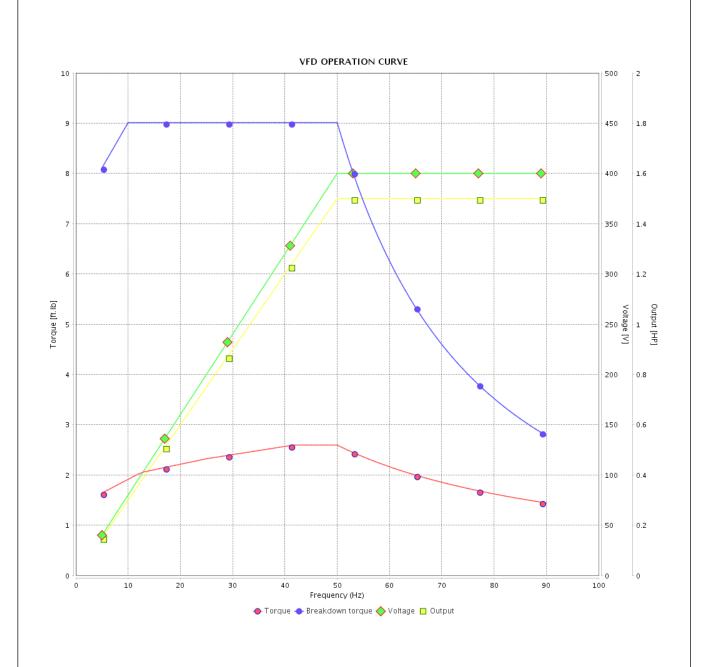
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Phase

Catalog #: 00156XT3E143T

14480957



Performance		: 400 V 50 Hz 2P IE2					
Rated current	: 2.	2.32 A Momen		of inertia (J)	: 0.0413 sq.ft.lb		
LRC	: 8.	Duty cycle		: Cont.(S1)			
Rated torque	: 2.	.73 ft.lb	Insulation class		: F		
Locked rotor tord	que : 32	20 %	Service factor		: 1.00		
Breakdown torqu	ie : 30	30 %	7 Temperature rise		: 80 K		
Rated speed	: 28	885 rpm	Design	Design		: B	
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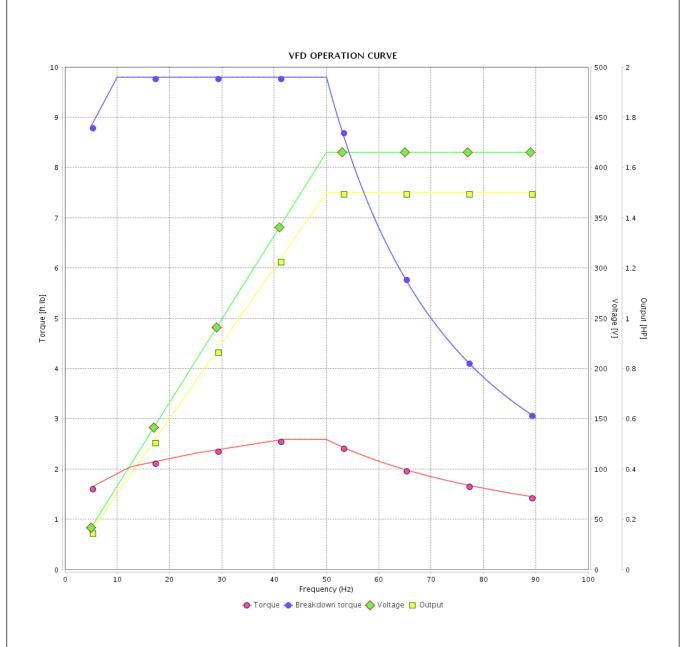
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14480957

Catalog #: 00156XT3E143T



Performance : 415 V 50 Hz 2P IE2 : 2.29 A Rated current Moment of inertia (J) : 0.0413 sq.ft.lb **LRC** : 8.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 2.72 ft.lb : F Locked rotor torque : 360 % Service factor : 1.00 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 2895 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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