#### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12373788

Catalog #: 00156ST3QIE143T-W22

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

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) : -20°C to +40°C Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight3 : 55.7 lb Altitude

Protection degree : IP55 Moment of inertia (J) : 0.0470 sq.ft.lb

Design : B Output [HP] 1.5 1.5 1.5 1.5 Poles 2 2 2 2 2 2 2 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 400 380 400 415 460 380 415 Rated current [A] 1.96 2.36 2.24 2.21 1.69 1.66 1.65 L. R. Amperes [A] 17.4 15.8 15.5 16.1 16.8 16.6 17.5 LRC [A] 8.9x(Code L) 9.2x(Code 9.7x(Code 10.2x(Code | 6.7x(Code H) | 7.4x(Code J) | 7.9x(Code K) M) M) N) No load current [A] 0.830 0.780 0.840 0.900 0.780 0.840 0.900 Rated speed [RPM] 3480 2905 2915 2920 2835 2860 2870 5.50 4.67 Slip [%] 3.33 3.17 2.83 2.67 4.33 Rated torque [ft.lb] 2.26 1.81 1.80 1.80 2.78 2.75 2.74 Locked rotor torque [%] 310 340 380 420 220 260 280 Breakdown torque [%] 370 390 440 480 260 290 310 1.25 Service factor 1.25 1.25 1.25 1.25 1.25 1.25 80 K 80 K Temperature rise 80 K 80 K 80 K 80 K 80 K 27s (cold) 27s (cold) 27s (cold) Locked rotor time 37s (cold) 27s (cold) 27s (cold) 27s (cold) 21s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) Noise level<sup>2</sup> 68.0 dB(A) 25% 50% 81.5 80.5 79.3 78.9 81.0 82.0 82.0 Efficiency (%) 75% 84.0 83.2 82.8 82.7 81.5 82.5 82.5 100% 84.0 83.4 83.4 81.5 82.5 82.5 83.4 25% 0.63 0.58 0.75 0.67 50% 0.68 0.55 0.70 Power Factor 75% 0.78 0.74 0.71 0.68 0.84 0.80 0.78 0.87 100% 0.84 0.81 0.78 0.76 0.86 0.84

Drive end Non drive end Foundation loads

6205 C3 Bearing type 6204 C3 Max. traction : 46 lb Inpro/Seal Inpro/Seal : 102 lb Sealing Max. compression

Lubrication interval 20000 h 20000 h Lubricant amount 4 g 4 g Mobil Polyrex EM

Notes

Lubricant type

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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#### Three Phase Induction Motor - Squirrel Cage



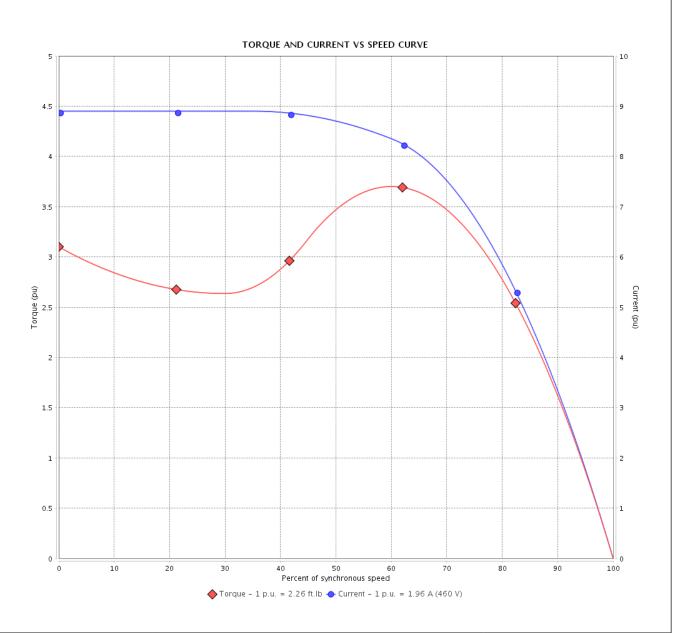
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12373788

Catalog #: 00156ST3QIE143T-W22



Performance : 460 V 60 Hz 2P Rated current : 1.96 A Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 8.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.26 ft.lb Service factor Locked rotor torque : 310 % : 1.25 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 3480 rpm Design : B

Locked rotor time : 37s (cold) 21s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12373788 Catalog #: 00156ST3QIE143T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5

Performance : 380 V 50 Hz 2P IE3 Rated current : 1.69 A Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 9.2 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 1.81 ft.lb Locked rotor torque : 340 % Service factor : 1.25 Breakdown torque : 390 % Temperature rise : 80 K : B Rated speed : 2905 rpm Design

Percent of synchronous speed 🔷 Torque – 1 p.u. = 1.81 ft.lb 🔷 Current – 1 p.u. = 1.69 A (380 V)

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

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#### Three Phase Induction Motor - Squirrel Cage



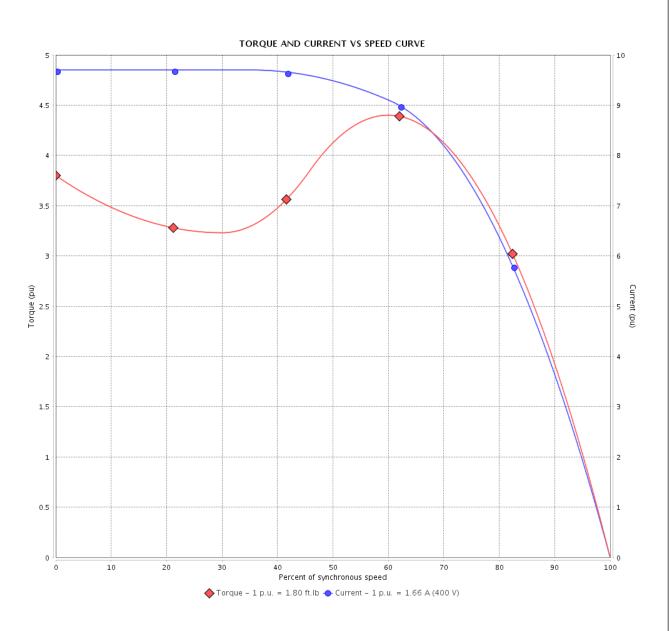
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12373788

Catalog #: 00156ST3QIE143T-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 1.66 A Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 9.7 Duty cycle : Cont.(S1) : F : 1.80 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 380 % : 1.25 Breakdown torque : 440 % Temperature rise : 80 K Rated speed : 2915 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: 12373788 Catalog #: 00156ST3QIE143T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 18 3.5 Torque (pu) 40 50 Percent of synchronous speed ◆ Torque - 1 p.u. = 1.80 ft.lb ◆ Current - 1 p.u. = 1.65 A (415 V)

Performance	: 415 V 50 Hz 2P IE3		
Rated current	: 1.65 A	Moment of inertia (J)	: 0.0470 sq.ft.lb
LRC	: 10.2	Duty cycle	: Cont.(S1)
Rated torque	: 1.80 ft.lb	Insulation class	:F
Locked rotor torque	: 420 %	Service factor	: 1.25
Breakdown torque	: 480 %	Temperature rise	: 80 K
Rated speed	: 2920 rpm	Design	: B
Locked rotor time	· 27s (cold) 15s (hot)		

LOCKEU TOLOT LITTLE	. 2	73 (Cold) 133 (110t)			
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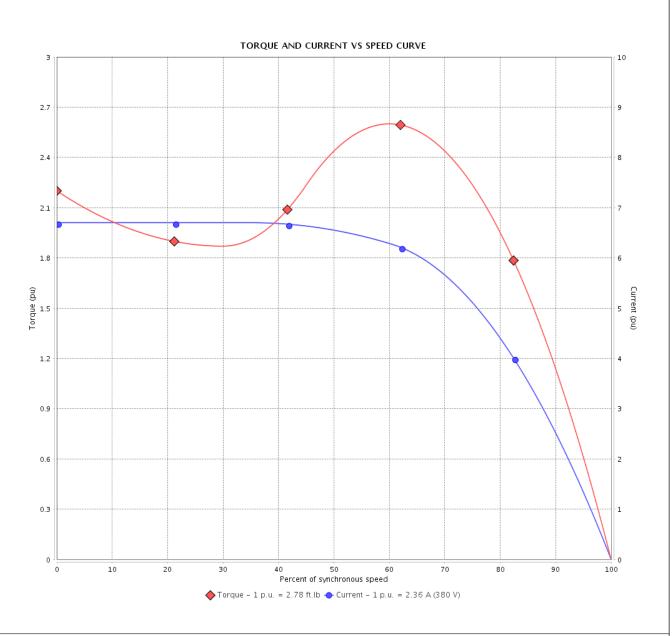
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12373788

Catalog #: 00156ST3QIE143T-W22



Performance : 380 V 50 Hz 2P IE2 Rated current : 2.36 A Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 2.78 ft.lb : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2835 rpm Design : B

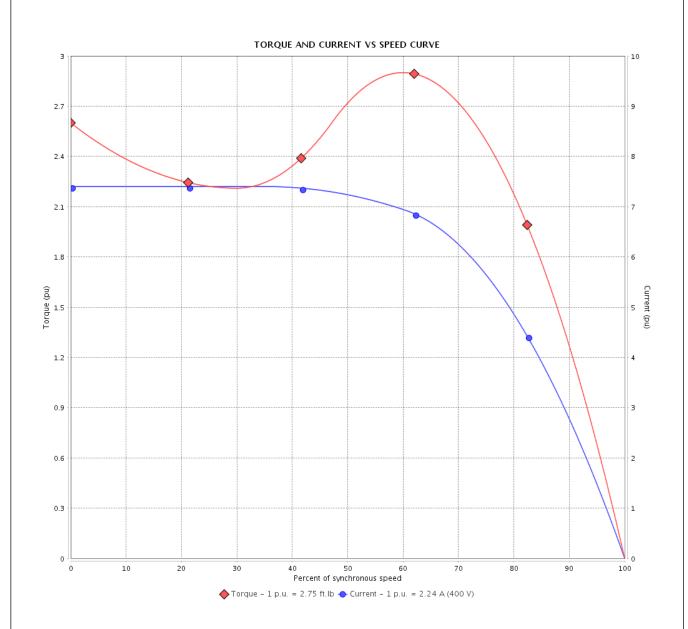
Locked rotor time : 27s (cold) 15s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12373788 Catalog #: 00156ST3QIE143T-W22



Performance : 400 V 50 Hz 2P IE2 Rated current : 2.24 A Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 2.75 ft.lb Insulation class : F Rated torque Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K : B Rated speed : 2860 rpm Design Locked rotor time : 27s (cold) 15s (hot)

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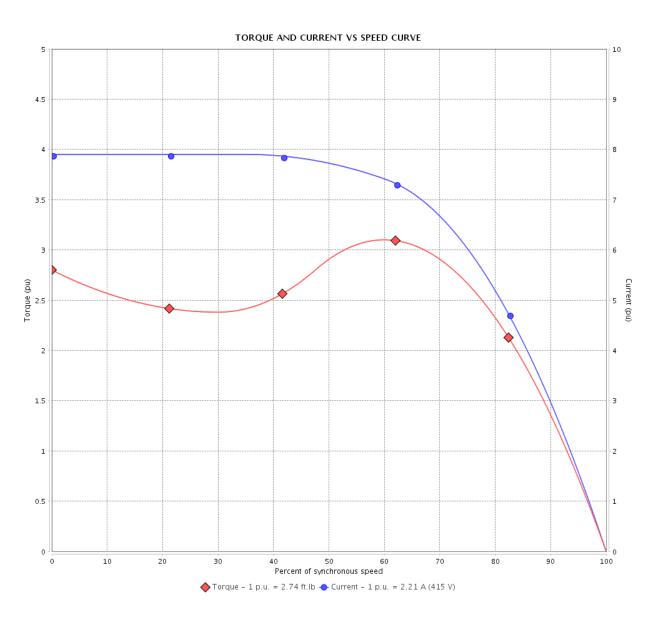
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12373788

Catalog #: 00156ST3QIE143T-W22



Performance : 415 V 50 Hz 2P IE2 Rated current : 2.21 A Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.74 ft.lb Service factor Locked rotor torque : 280 % : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2870 rpm Design : B

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

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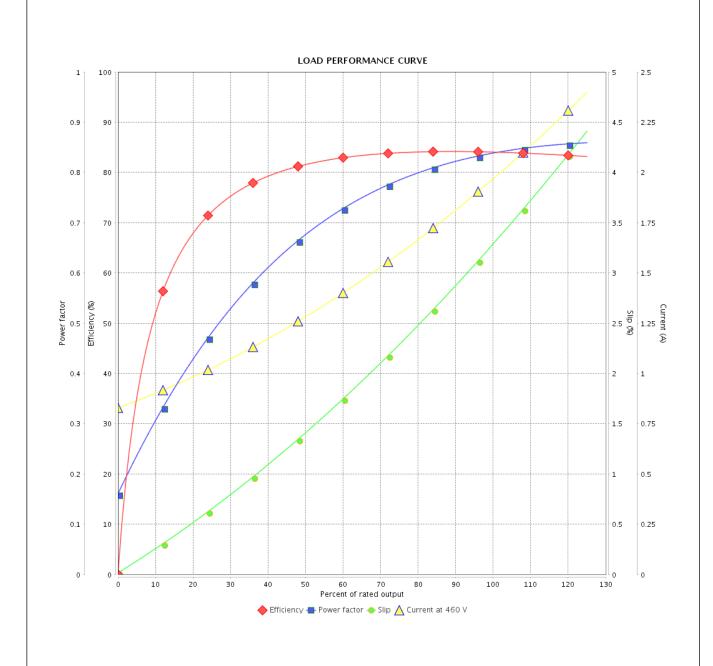
Customer

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12373788

Catalog #: 00156ST3QIE143T-W22



Performance		: 460 V 60 Hz 2P				
Rated current : 1.96 A		: 1.96 A	Moment o	f inertia (J)	: 0.0470 sq.ft	.lb
LRC		8.9	Duty cycle	;	: Cont.(S1)	
Rated torque		2.26 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie :	: 310 %	Service fa	ctor	: 1.25	
Breakdown torque	9	: 370 %	Temperati	ıre rise	: 80 K	
Rated speed		: 3480 rpm	Design		: B	
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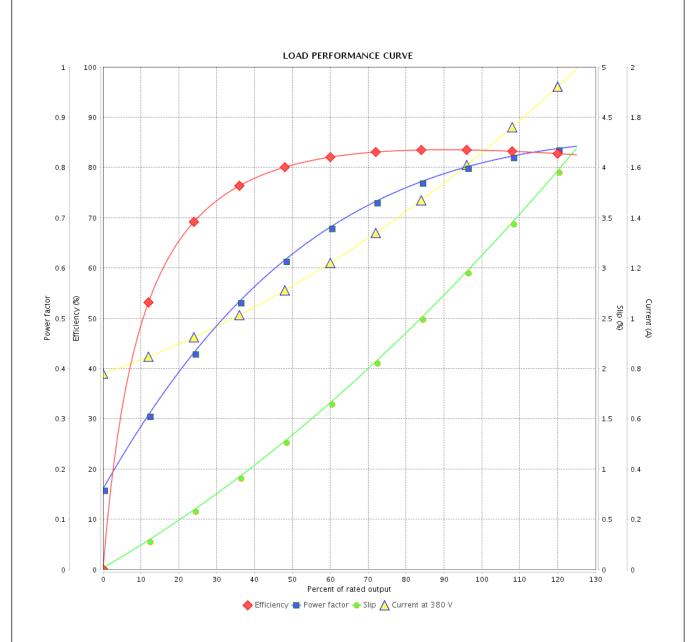
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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12373788



Performance	: 380 V 50 Hz 2P IE3				
Rated current	: 1.69 A	Moment of inerti	a (J)	: 0.0470 sq.ft.	lb
LRC	: 9.2	Duty cycle		: Cont.(S1)	
Rated torque	: 1.81 ft.lb	Insulation class		: F	
Locked rotor torque	: 340 %	Service factor		: 1.25	
Breakdown torque	kdown torque : 390 % Temperature rise		)	: 80 K	
Rated speed	: 2905 rpm	Design		: B	
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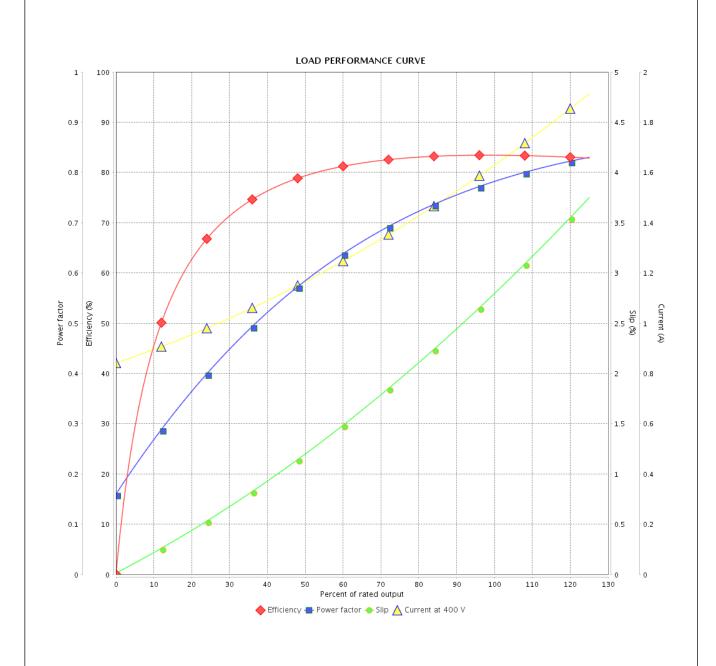
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12373788

Catalog #: 00156ST3QIE143T-W22



Performance	: 4	400 V 50 Hz 2P IE3				
Rated current	Rated current : 1.66 A Moment of inertia (J)		f inertia (J)	: 0.0470 sq.ft.	.lb	
LRC	: 9	9.7	Duty cycle	}	: Cont.(S1)	
Rated torque	: 1	1.80 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :3	380 %	Service fa	ctor	: 1.25	
Breakdown torque	: 4	140 %	Temperature rise		: 80 K	
Rated speed	: 2	2915 rpm	Design		: B	
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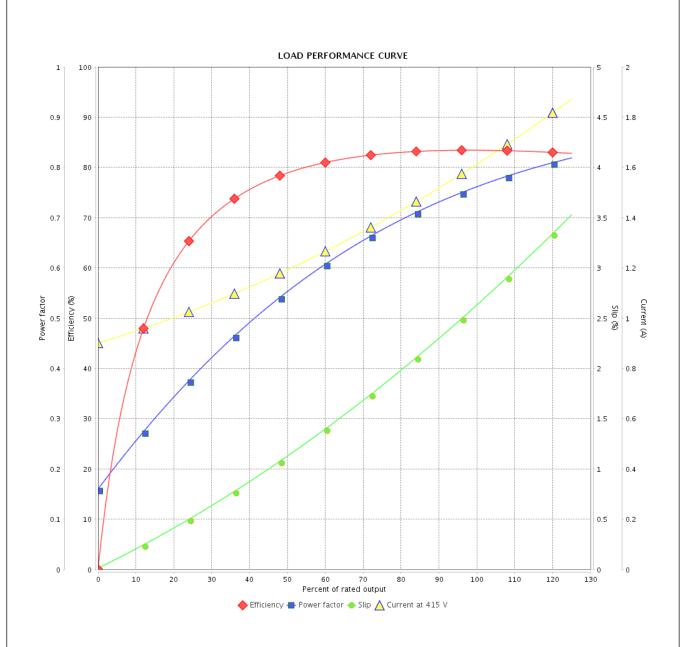
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Product line : NEMA Premium Efficiency Three- Product code : 12373788

Phase

Catalog #: 00156ST3QIE143T-W22



Performance : 415 V 50 Hz 2P IE3 : 1.65 A Rated current Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 10.2 Duty cycle : Cont.(S1) : 1.80 ft.lb Insulation class Rated torque : F Locked rotor torque : 420 % Service factor : 1.25 Breakdown torque : 480 % Temperature rise : 80 K Rated speed : 2920 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage



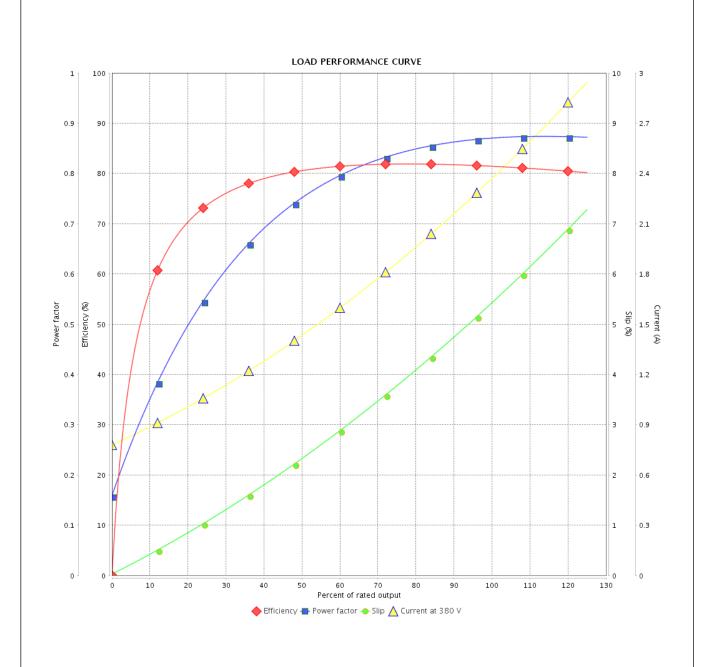
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12373788

Phase

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Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 2.36 A : 6.7 : 2.78 ft.lb : 220 % : 260 %	Moment of inertia Duty cycle Insulation class Service factor Temperature rise	(J)	: 0.0470 sq.ft. : Cont.(S1) : F : 1.25 : 80 K	lb
Rated speed  Rev.	: 2835 rpm  Changes Summary	Design	ormed	: B Checked	Date
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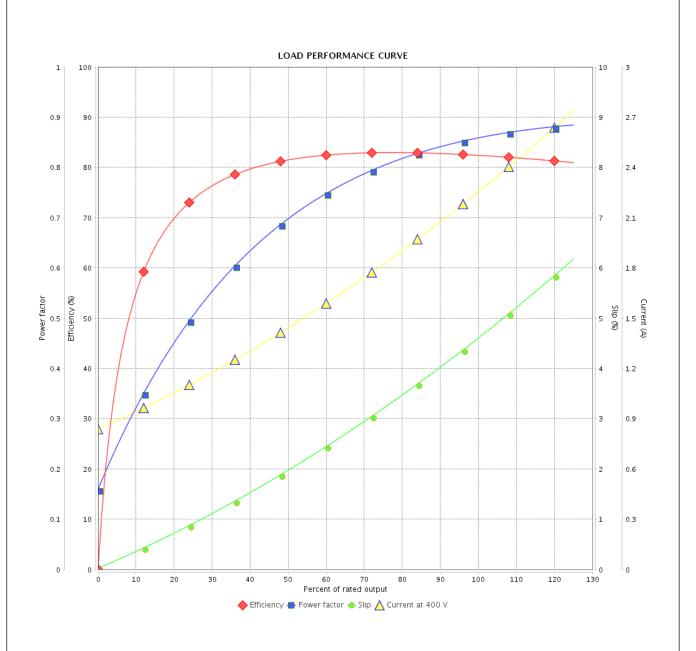
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Product line : NEMA Premium Efficiency Three- Product code : 12373788

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Performance : 400 V 50 Hz 2P IE2 Rated current : 2.24 A Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 2.75 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 2860 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

#### Three Phase Induction Motor - Squirrel Cage



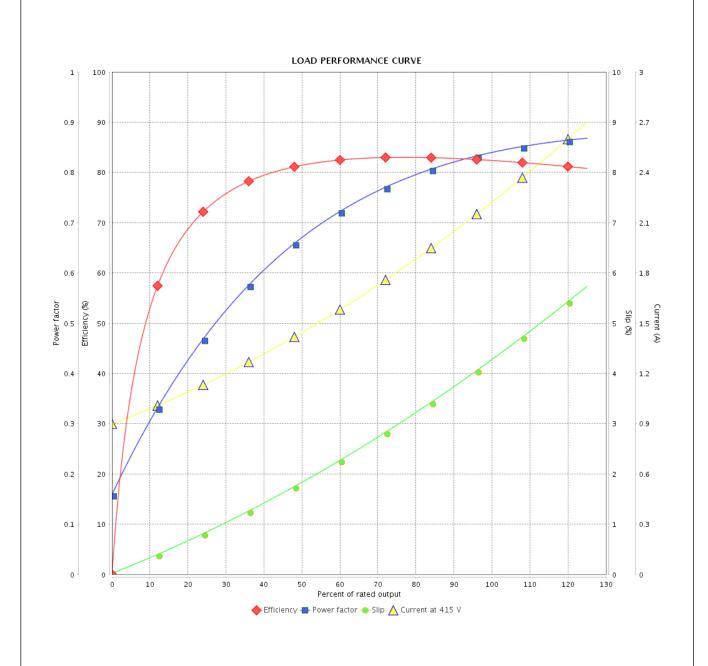
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12373788

Phase

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Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.21 A : 7.9 : 2.74 ft.lb : 280 % : 310 % : 2870 rpm	Moment of ir Duty cycle Insulation cla Service facto Temperature Design	ass or	: 0.0470 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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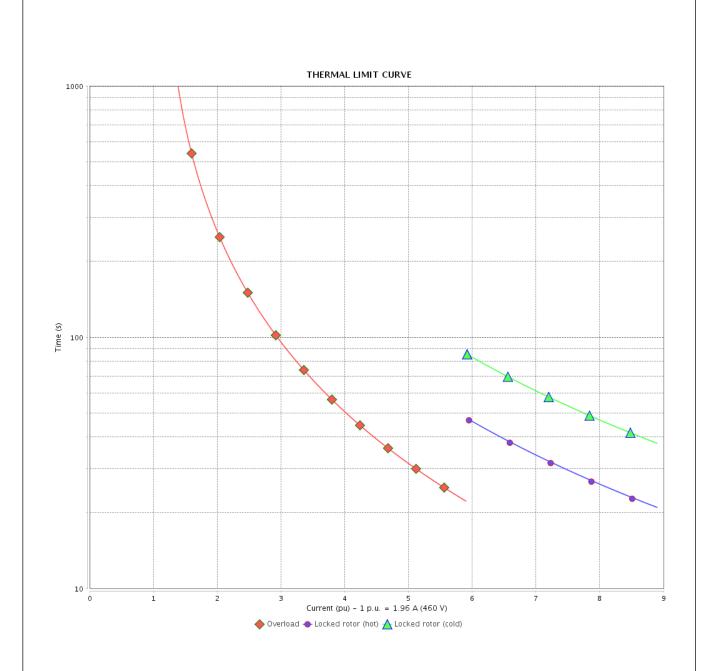


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12373788 00156ST3QII	E143T-W22
Performance		: 460 V 60 Hz 2P				
Rated current LRC		: 1.96 A : 8.9	Duty cycle		: 0.0470 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 2.26 ft.lb : 310 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ue	: 370 %	Temperat		: 80 K	
Rated speed		: 3480 rpm	Design		: B	
Heating constant Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage

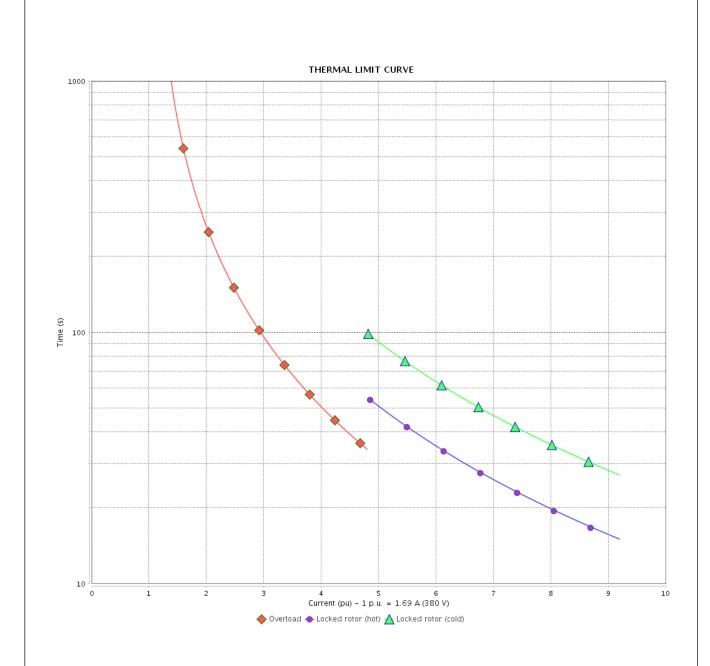


Customer	:				
Product line	: NEMA Premium Efficier Phase		Product code : Catalog # :	12373788 00156ST3QI	E143T-W22
Performance Rated current	: 380 V 50 Hz 2P IE3 : 1.69 A	Moment o	of inertia (J)	: 0.0470 sq.ft.l	b
LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 9.2 : 1.81 ft.lb : 340 % : 390 % : 2905 rpm	Duty cycle Insulation Service fa Temperati	e class actor	: Cont.(S1) : F : 1.25 : 80 K : B	-
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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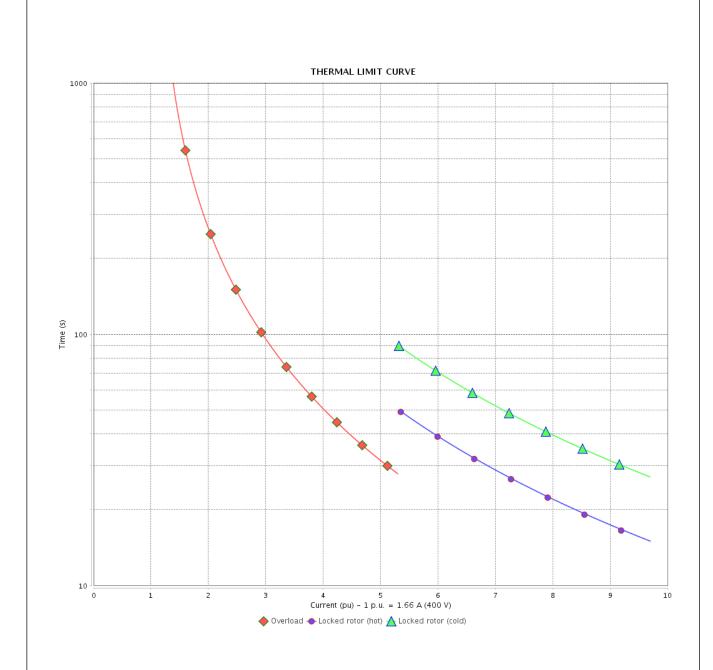


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12373788 00156ST3QII	E143T-W22
Performance		: 400 V 50 Hz 2P IE3		<u> </u>	0.0470 61	
Rated current LRC		: 1.66 A : 9.7	Duty cycle		: 0.0470 sq.ft.l : Cont.(S1)	D
Rated torque Locked rotor tord		: 1.80 ft.lb : 380 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		: 440 %	Temperat		: 80 K	
Rated speed		: 2915 rpm	Design		: B	
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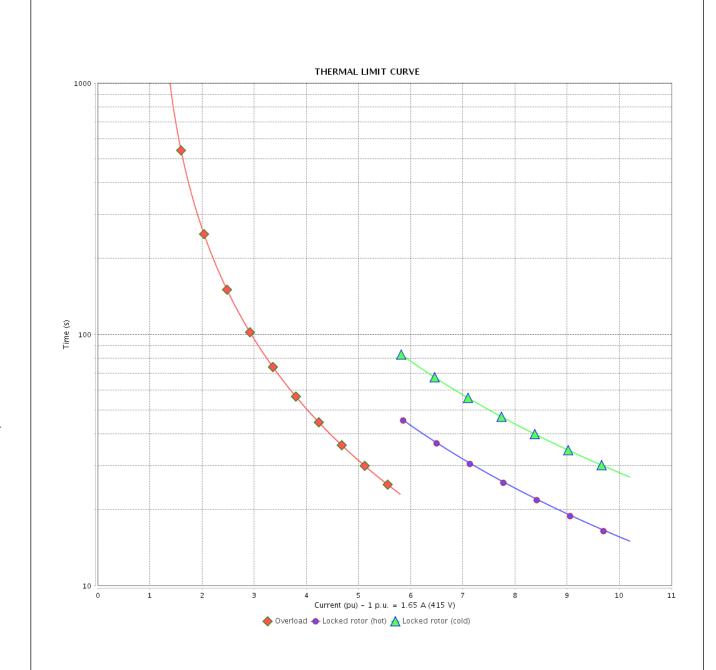


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12373788 00156ST3QII	E143T-W22
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Performance		: 415 V 50 Hz 2P IE3				
Rated current LRC		: 1.65 A : 10.2	Duty cycle		: 0.0470 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 1.80 ft.lb : 420 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ue	: 480 %	Temperat		: 80 K	
Rated speed		: 2920 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage



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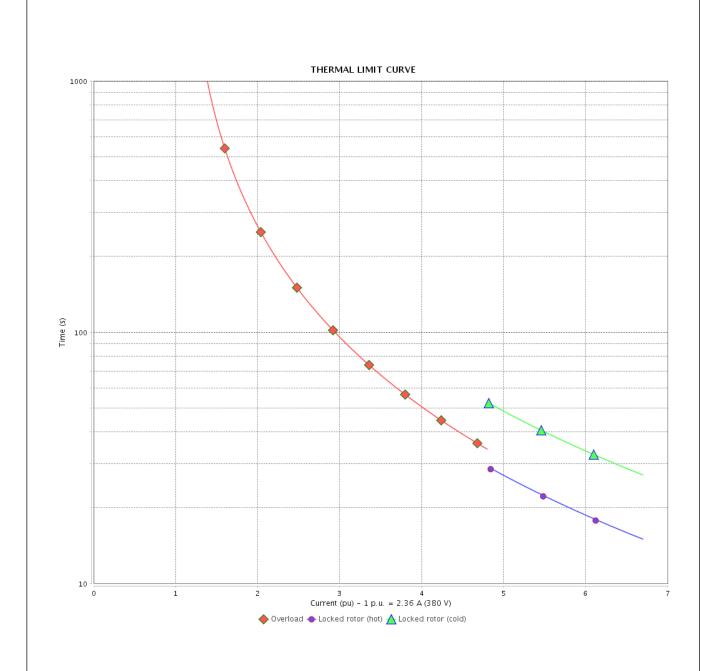


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12373788 00156ST3QI	E143T-W22
Performance		: 380 V 50 Hz 2P IE2				
Rated current LRC		: 2.36 A : 6.7	Moment of Duty cycle	of inertia (J) e	: 0.0470 sq.ft.l : Cont.(S1)	b
Rated torque		: 2.78 ft.lb : 220 %	Insulation Service fa	class	: F : 1.25	
Locked rotor tord Breakdown torqu	ue	: 260 %	Temperat		: 80 K	
Rated speed		: 2835 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

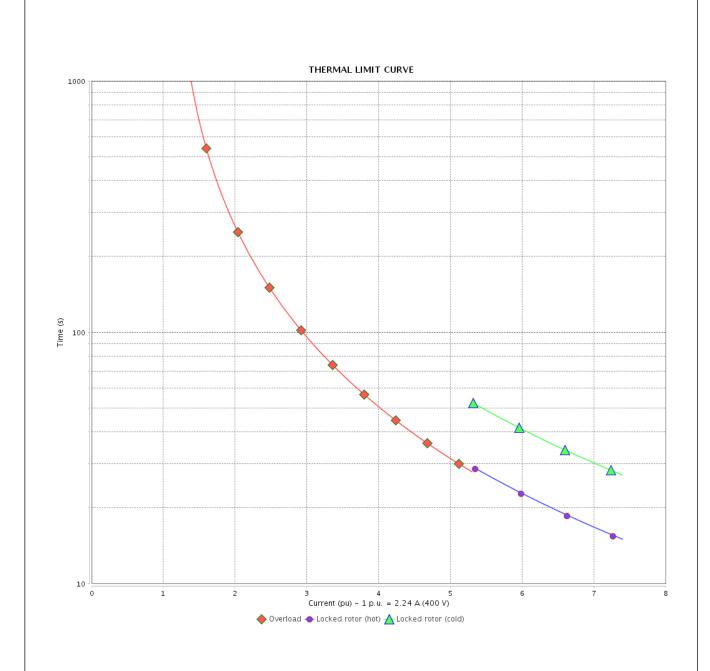


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12373788 00156ST3QI	E143T-W22
Performance	: 400 V 50 Hz 2P IE2				
Rated current	: 2.24 A	Moment of	f inertia (J)	: 0.0470 sq.ft.	lb
LRC Rated torque	: 7.4 : 2.75 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 260 %	Service fa		. г : 1.25	
Breakdown torque Rated speed	: 290 % : 2860 rpm	Temperatu Design		: 80 K : B	
Heating constant					
Cooling constant					
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#### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

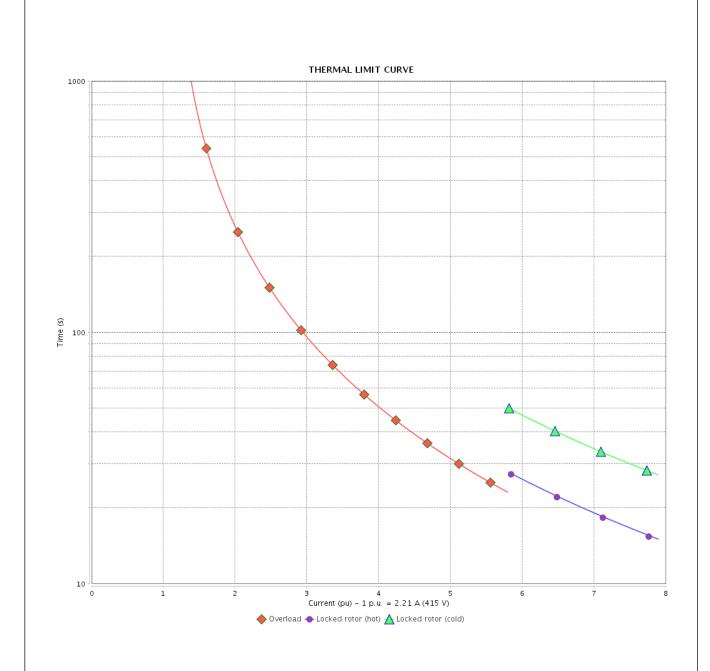


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12373788 00156ST3QII	E143T-W22
				<u> </u>		
Performance		: 415 V 50 Hz 2P IE2				
Rated current LRC		: 2.21 A : 7.9	Moment of Duty cycle	of inertia (J) e	: 0.0470 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 2.74 ft.lb : 280 %	Insulation Service fa	class	: F : 1.25	
Breakdown torqu		: 310 %	Temperat		: 80 K	
Rated speed		: 2870 rpm	Design		: B	
Heating constant						
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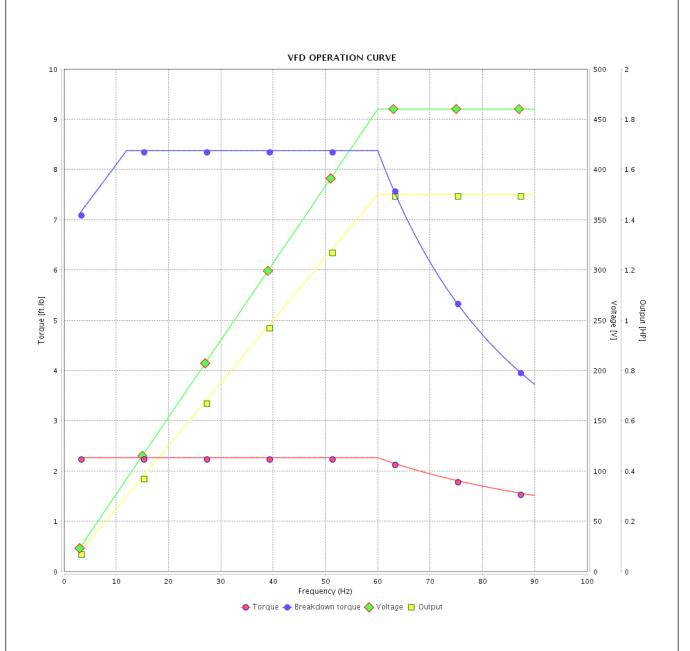
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Phase

Product code: 12373788

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Performance : 460 V 60 Hz 2P : 1.96 A Rated current Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 8.9 Duty cycle : Cont.(S1) : 2.26 ft.lb Insulation class Rated torque : F Locked rotor torque : 310 % Service factor : 1.25 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 3480 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

#### Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 12373788

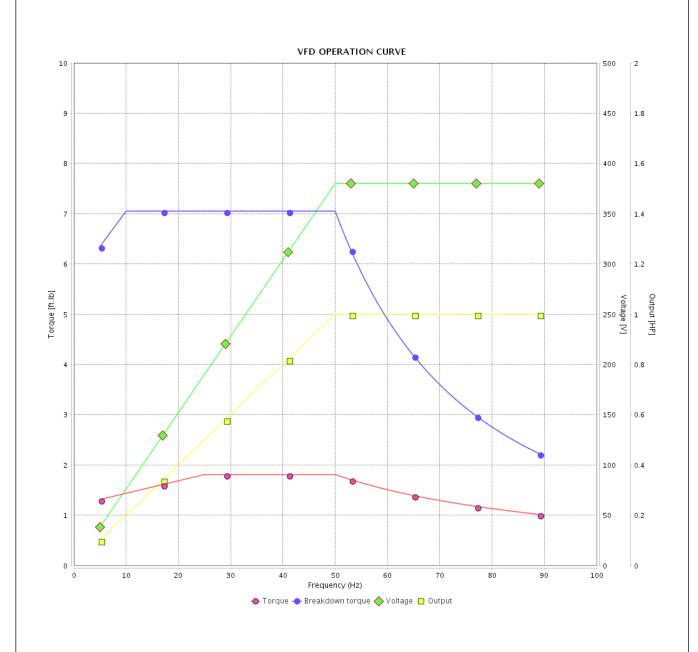
Phase

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Revision



Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.69 A : 9.2 : 1.81 ft.lb : 340 % : 390 % : 2905 rpm	: 9.2       Duty cycle         : 1.81 ft.lb       Insulation         : 340 %       Service fa         : 390 %       Temperat		: 0.0470 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K	
Rev.	Changes Summary	Design	Performed	: B Checked	Date
Performed by					

#### Three Phase Induction Motor - Squirrel Cage



Customer :

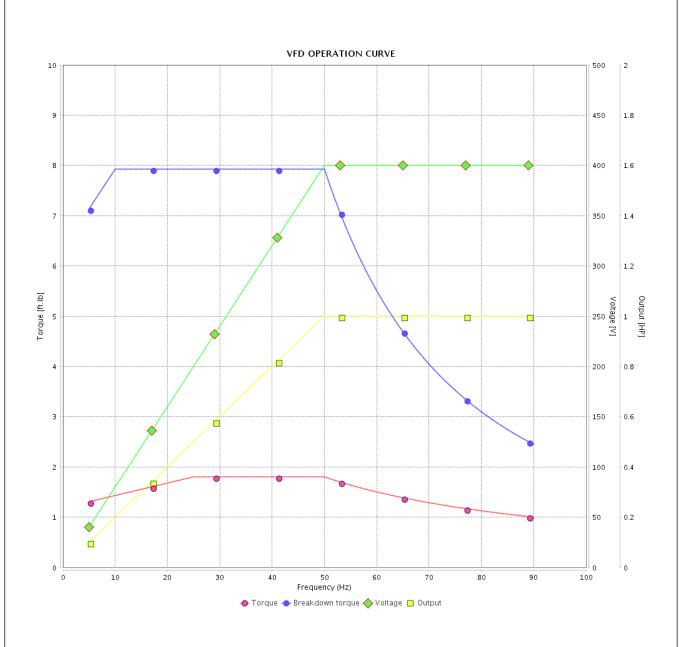
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 12373788

Catalog #: 00156ST3QIE143T-W22

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Performance	: 40	00 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 9. : 1. que : 38 ue : 44	66 A 7 80 ft.lb 30 % 40 % 915 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0470 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision

12/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 12373788

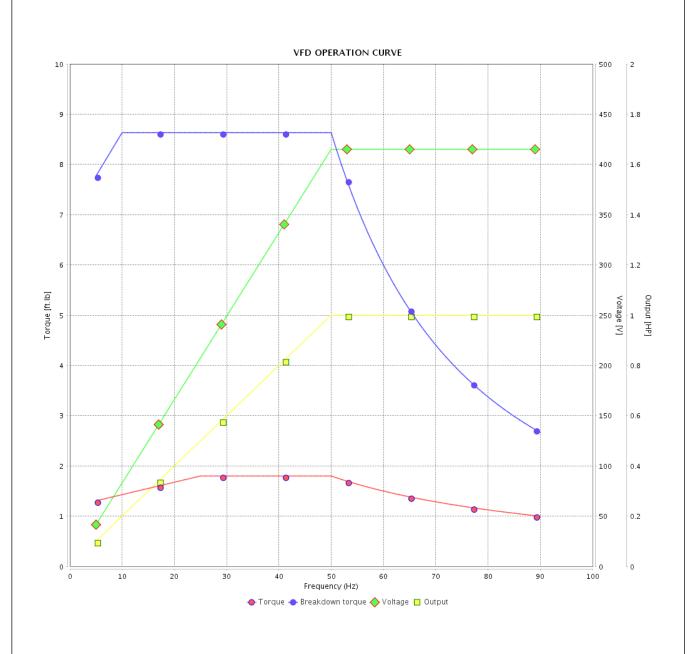
Phase

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Revision



Performance					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.65 A : 10.2 : 1.80 ft.lb : 420 % : 480 % : 2920 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0470 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Rev. Changes Summary		Performed	Checked	Date
Performed by					

#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Produ

Phase

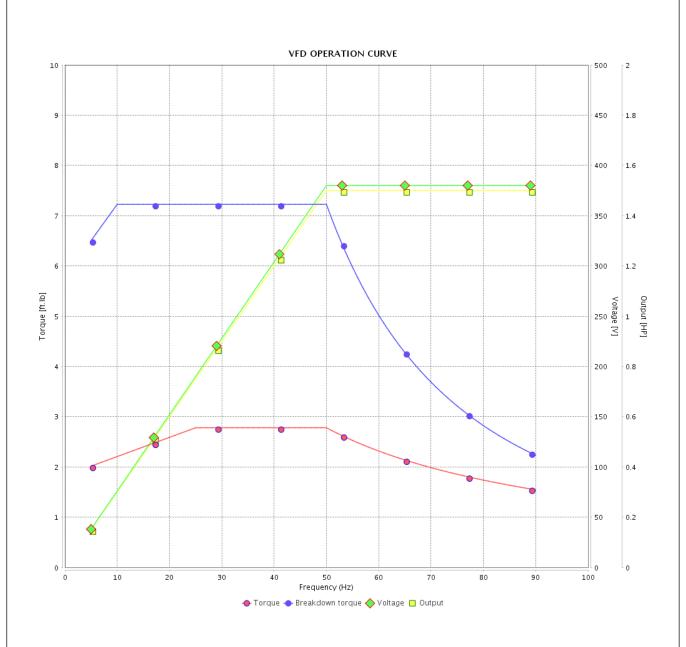
Product code: 12373788

Catalog #: 00156ST3QIE143T-W22

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Revision



Performance : 380 V 50 Hz 2P IE2 Rated current : 2.36 A Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 2.78 ft.lb : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2835 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage



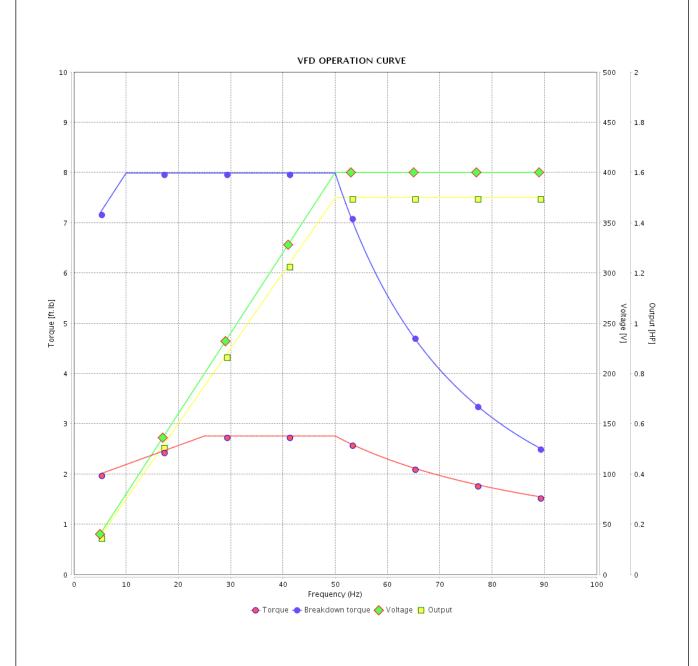
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12373788

Phase

Catalog #: 00156ST3QIE143T-W22

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Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.24 A : 7.4 : 2.75 ft.lb : 260 % : 290 % : 2860 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0470 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

12/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

12/04/2022

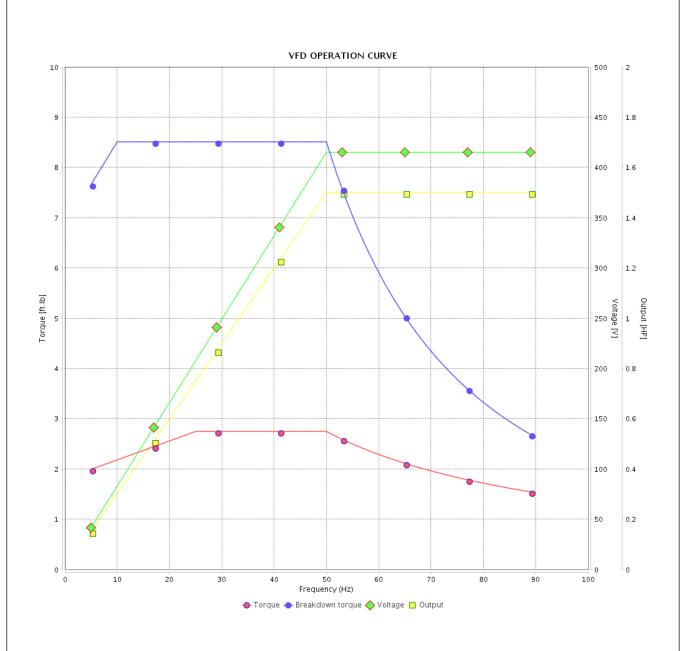
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12373788

Catalog #: 00156ST3QIE143T-W22

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Performance : 415 V 50 Hz 2P IE2 : 2.21 A Rated current Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) : 2.74 ft.lb Insulation class Rated torque : F : 280 % Locked rotor torque Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2870 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

