### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11520462

3.02

Catalog #: 00236ST3QIE145TC-W22

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

Insulation class Mounting : F-1

2.73

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. weight<sup>3</sup> : 59.6 lb Altitude : IP55 Moment of inertia (J) : 0.0605 sq.ft.lb

Protection degree

Design	: B						
Output [HP]	2	1.5	1.5	1.5	2	2	2
Poles	2	2	2	2	2	2	2
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	460	380	400	415	380	400	415
Rated current [A]	2.56	2.30	2.22	2.19	3.07	2.90	2.82
L. R. Amperes [A]	22.8	19.5	20.4	21.2	20.0	20.9	21.7
LRC [A]	8.9x(Code L)	8.5x(Code K)	9.2x(Code L)	9.7x(Code	6.5x(Code H)	7.2x(Code J)	7.7x(Code
				M)			
No load current [A]	0.900	0.890	0.960	1.01	0.890	0.960	1.01
Rated speed [RPM]	3475	2885	2895	2905	2835	2850	2865
Slip [%]	3.47	3.83	3.50	3.17	5.50	5.00	4.50

2.72

2.71

3.70

3.69

3.67

Locked rotor torqu	e [%]	350	370	409	450	270	300	330
Breakdown torque	[%]	380	370	420	459	270	310	340
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K						
Locked rotor time		30s (cold)	25s (cold)					
		17s (hot)	14s (hot)					
Noise level <sup>2</sup>		68.0 dB(A)	62.0 dB(A)					
	25%	82.0	80.8	79.1	78.9	83.3	82.1	82.1
Efficiency (%)	50%	82.5	81.4	80.3	80.1	82.5	82.5	82.5
Linciency (70)	75%	85.5	83.3	83.1	83.1	84.0	84.0	84.0
	100%	85.5	83.5	84.0	84.0	82.5	84.0	84.0
	25%	0.47	0.45	0.42	0.40	0.54	0.51	0.48
Power Factor	50%	0.71	0.69	0.66	0.64	0.79	0.76	0.73
FOWEI FACIOI	75%	0.80	0.81	0.78	0.76	0.86	0.84	0.83
	100%	0.86	0.87	0.85	0.83	0.90	0.89	0.88

Drive end Non drive end Foundation loads Bearing type 6205 C3 6204 C3 Max. traction : 78 lb Sealing Inpro/Seal Inpro/Seal : 138 lb Max. compression Lubrication interval 20000 h 20000 h

Lubricant amount 4 g 4 g Mobil Polyrex EM Lubricant type

Notes

Rated torque [ft.lb]

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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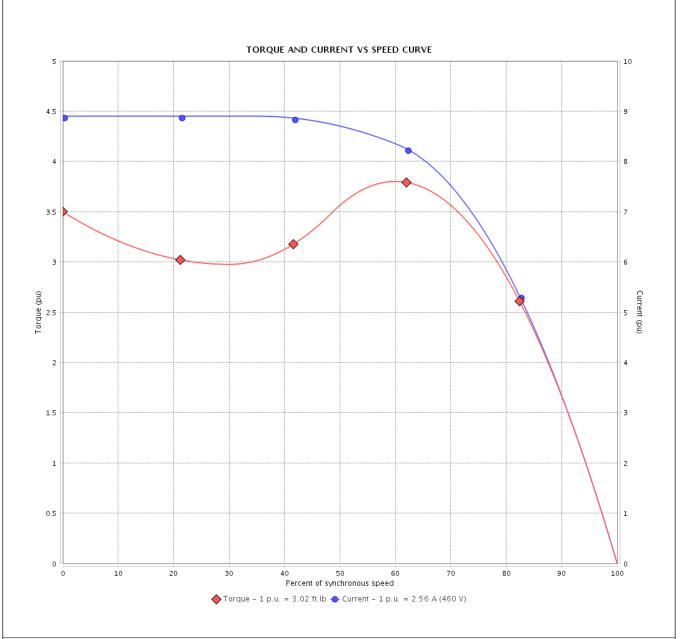
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11520462

Catalog #: 00236ST3QIE145TC-W22



Performance : 460 V 60 Hz 2P Rated current : 2.56 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 8.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 3.02 ft.lb Service factor Locked rotor torque : 350 % : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 3475 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11520462 Catalog #: 00236ST3QIE145TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 2.73 ft.lb ◆ Current - 1 p.u. = 2.30 A (380 V) Performance : 380 V 50 Hz 2P IE3 Rated current : 2.30 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 8.5 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 2.73 ft.lb : 370 % Locked rotor torque Service factor : 1.25 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 2885 rpm Design : B Locked rotor time : 25s (cold) 14s (hot) Date Rev. Performed Checked **Changes Summary** Performed by

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#### Three Phase Induction Motor - Squirrel Cage



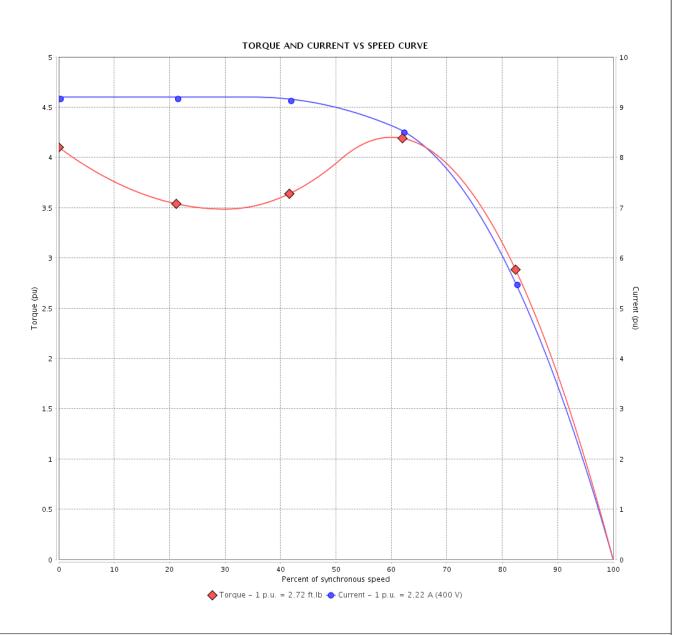
Customer :

Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 11520462

Catalog #: 00236ST3QIE145TC-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 2.22 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 9.2 Duty cycle : Cont.(S1) : F : 2.72 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 409 % : 1.25 Breakdown torque : 420 % Temperature rise : 80 K Rated speed : 2895 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11520462 Catalog #: 00236ST3QIE145TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (bu) 40 50 -Percent of synchronous speed ♦ Torque – 1 p.u. = 2.71 ft.lb ♦ Current – 1 p.u. = 2.19 A (415 V)

Performance	: 415 V 50 Hz 2P IE3		
Rated current	: 2.19 A	Moment of inertia (J)	: 0.0605 sq.ft.lb
LRC	: 9.7	Duty cycle	: Cont.(S1)
Rated torque	: 2.71 ft.lb	Insulation class	: F
Locked rotor torque	: 450 %	Service factor	: 1.25
Breakdown torque	: 459 %	Temperature rise	: 80 K
Rated speed	: 2905 rpm	Design	: B

Locked rotor time : 25s (cold) 14s (hot)

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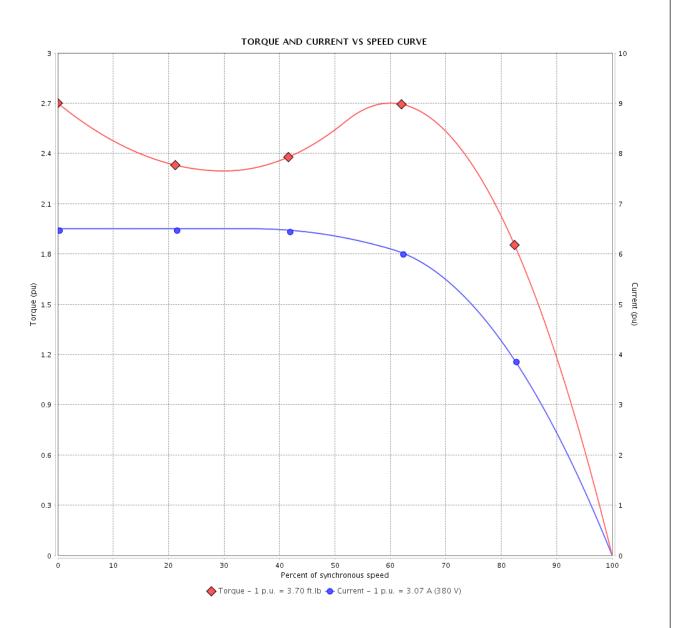
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00236ST3QIE145TC-W22

11520462



Performance : 380 V 50 Hz 2P IE2 Rated current : 3.07 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 3.70 ft.lb : F Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 2835 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11520462 Catalog #: 00236ST3QIE145TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current Percent of synchronous speed ♦ Torque – 1 p.u. = 3.69 ft.lb ♦ Current – 1 p.u. = 2.90 A (400 V) : 400 V 50 Hz 2P IE2 Performance Rated current : 2.90 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Rated torque : 3.69 ft.lb Insulation class : F : 300 % Locked rotor torque Service factor : 1.25 Breakdown torque : 310 % Temperature rise

		Design	: B		
e : 25	5s (cold) 14s (hot)	)			
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	: 28 e : 29	: 2850 rpm e : 25s (cold) 14s (hot) Changes Summa	: 2850 rpm Design  : 25s (cold) 14s (hot)  Changes Summary	: 2850 rpm Design  E : 25s (cold) 14s (hot)  Changes Summary Performed	: 2850 rpm Design : B  e : 25s (cold) 14s (hot)  Changes Summary Performed Checked  Page

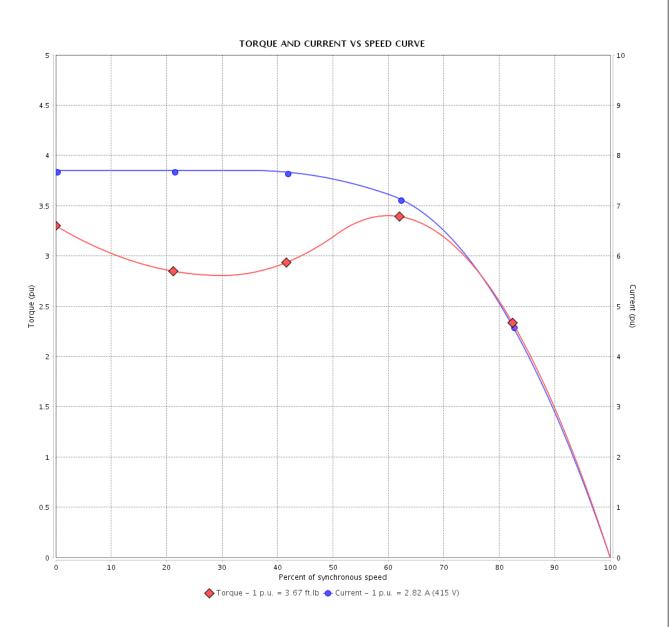
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11520462

Catalog #: 00236ST3QIE145TC-W22



Performance : 415 V 50 Hz 2P IE2 Rated current : 2.82 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : F : 3.67 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 330 % : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 2865 rpm Design : B Locked rotor time : 25s (cold) 14s (hot)

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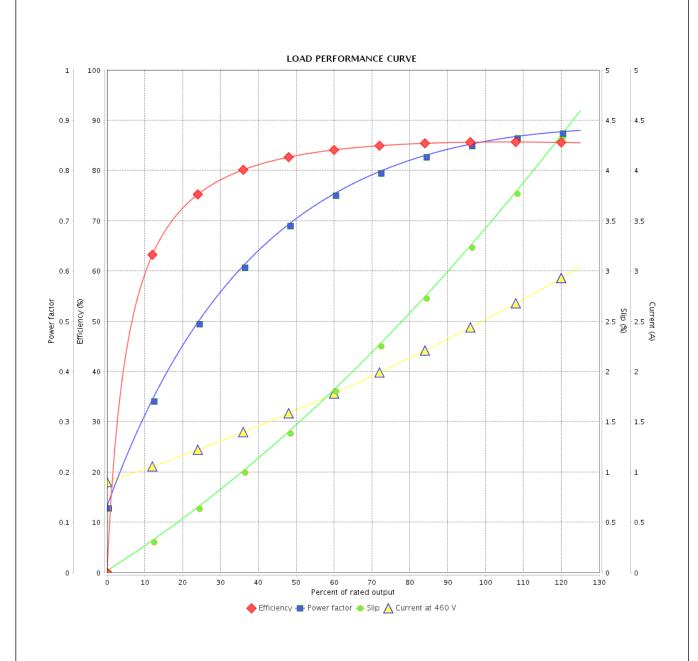


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11520462

Phase

Catalog #: 00236ST3QIE145TC-W22



Domformon	. 4	60 V 60 H= 2D				
Performance	. 4	: 460 V 60 Hz 2P				
Rated current	: 2	.56 A	Moment o	f inertia (J)	: 0.0605 sq.ft.	lb
LRC	: 8	.9	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 3	.02 ft.lb	Insulation	class	: F	
Locked rotor torque	e :3	50 %	Service fa	ctor	: 1.25	
Breakdown torque	: 3	80 %	Temperature rise		: 80 K	
Rated speed		3475 rpm Design			: B	
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Date

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Product line : NEMA Premium Efficiency Three- Product code :

Phase

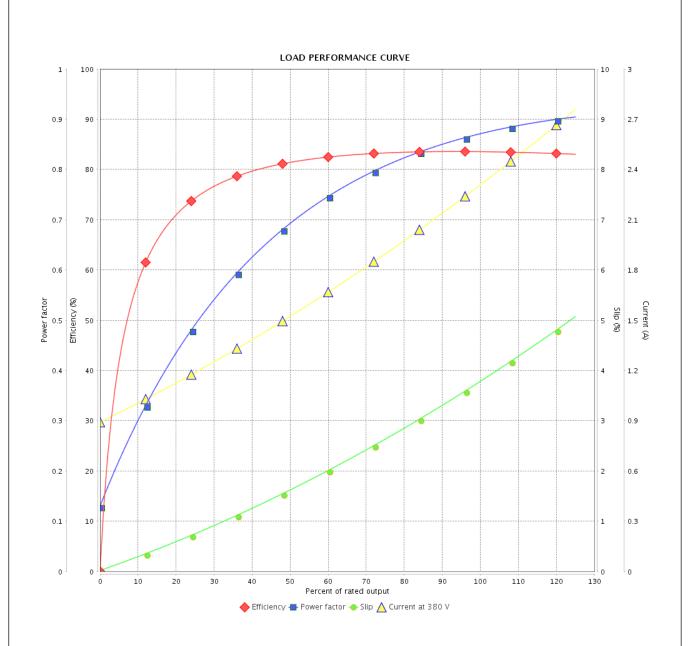
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Performance	: 380 V 50 Hz 2F	PIE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 2.30 A : 8.5 : 2.73 ft.lb : 370 % : 370 % : 2885 rpm	Du Ins Se Te	oment of uty cycle sulation ervice fact mperaturesign	class ctor	: 0.0605 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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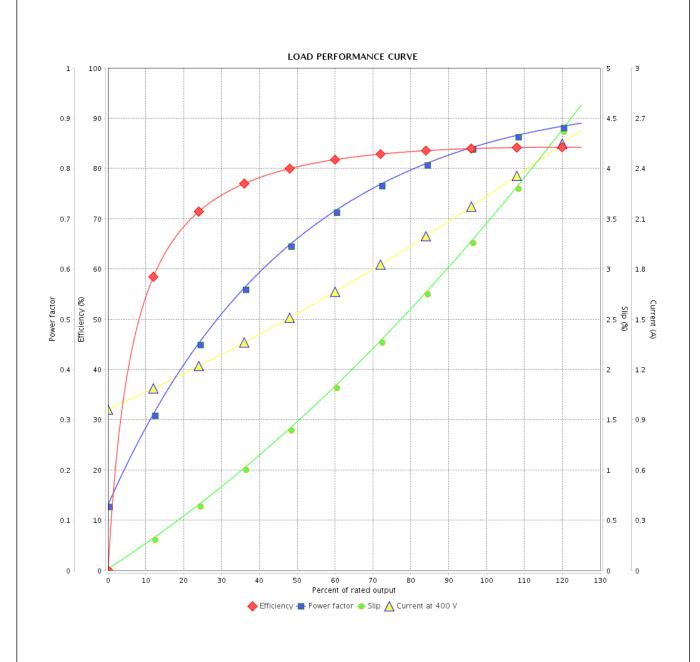
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11520462

Phase

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.22 A : 9.2 : 2.72 ft.lb : 409 % : 420 % : 2895 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0605 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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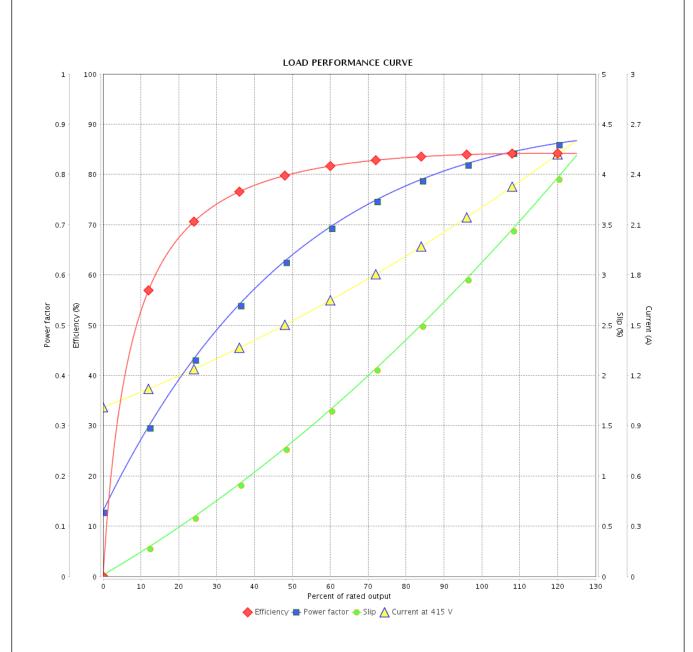
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	. 1	15 V 50 Hz 2P IE:	3			
Rated current : 2.19 A		Moment o	Moment of inertia (J)		.lb	
LRC	: 9	.7	Duty cycle	Duty cycle		
Rated torque : 2.71 ft.lb		Insulation	class	: Cont.(S1) : F		
Locked rotor torque		50 %	Service fa	Service factor		
Breakdown torqu		59 %	Temperati	Temperature rise		
Rated speed .		905 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



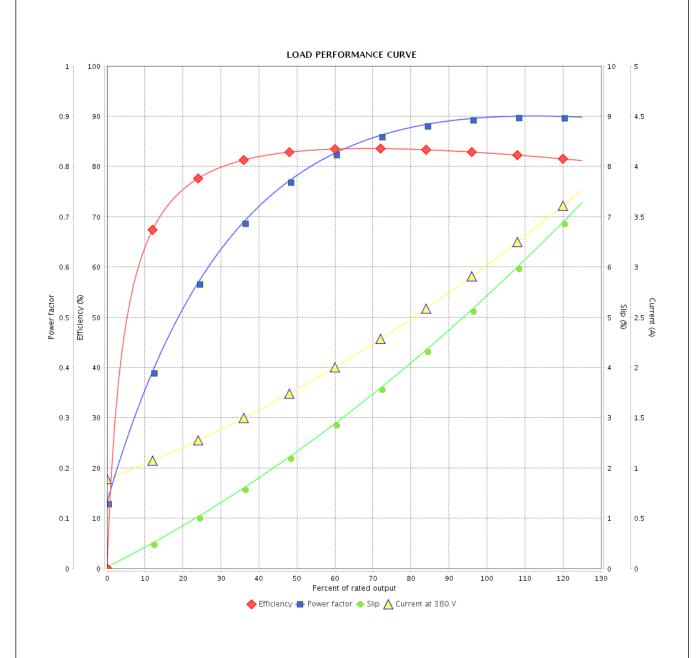
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Product line : NEMA Premium Efficiency Three- Product code : 11520462

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: 3.07 A : 6.5	Moment of inc	ertia (J)	: 0.0605 sq.ft.lb	
: 3.70 ft.lb : 270 % : 270 % : 2835 rpm	Insulation classes Service factor	r	: Cont.(S1) : F : 1.25 : 80 K : B	
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	: 270 % : 270 % : 2835 rpm	: 270 % Service facto : 270 % Temperature : 2835 rpm Design	: 270 % Service factor : 270 % Temperature rise : 2835 rpm Design	: 270 %       Service factor       : 1.25         : 270 %       Temperature rise       : 80 K         : 2835 rpm       Design       : B

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#### Three Phase Induction Motor - Squirrel Cage



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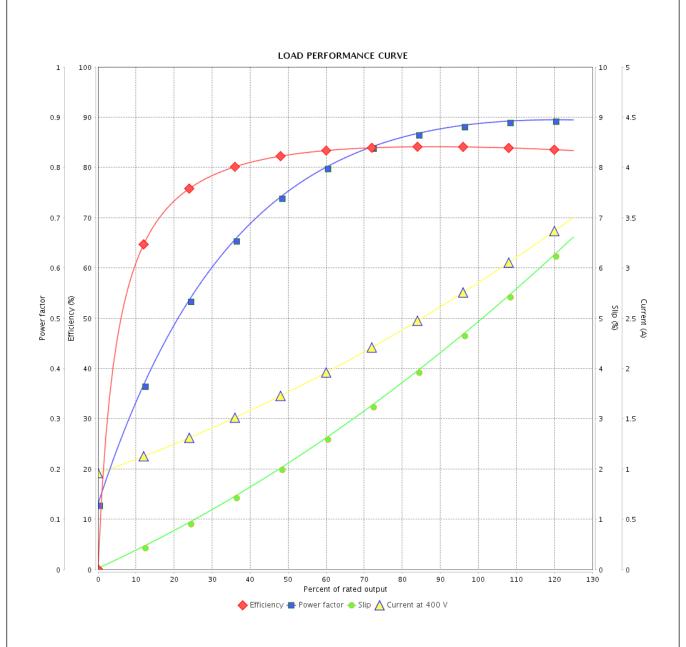
Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11520462

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Performance : 400 V 50 Hz 2P IE2 : 2.90 A Rated current Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 3.69 ft.lb Insulation class Rated torque : F Locked rotor torque : 300 % Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2850 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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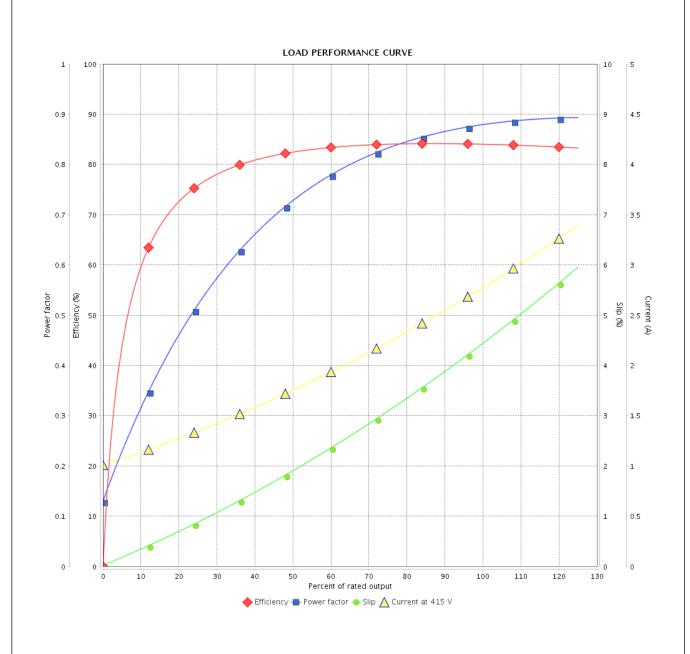
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Product line : NEMA Premium Efficiency Three- Product code : 11520462

Phase

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Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC	: 2.82 A : 7.7	Moment of inertia (J) Duty cycle		: 0.0605 sq.ft. : Cont.(S1)	lb
Rated torque Locked rotor torque Breakdown torque	: 3.67 ft.lb : 330 % : 340 %	Insulation class Service factor Temperature rise Design		: F : 1.25 : 80 K : B	
Rated speed	: 2865 rpm				
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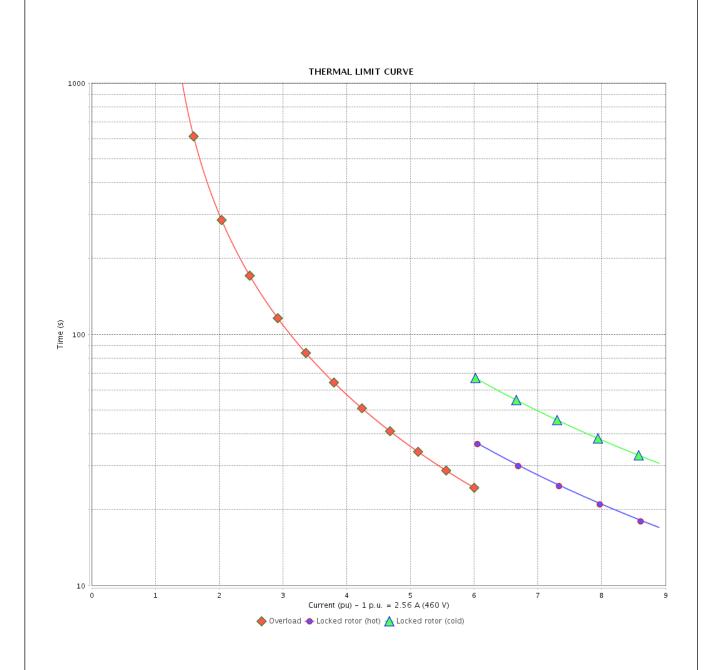


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11520462 00236ST3QII	E145TC-W22
Performance	:	: 460 V 60 Hz 2P				
Rated current LRC		: 2.56 A : 8.9	Duty cycle		: 0.0605 sq.ft.l : Cont.(S1)	b
Rated torque		: 3.02 ft.lb : 350 %	Insulation Service fa	class	: F : 1.25	
Locked rotor tord Breakdown torqu		: 380 % : 380 %	Temperat		: 1.25 : 80 K	
Rated speed		: 3475 rpm	Design		: B	
Heating constant						
Cooling constant	l .	Changes Summary		Performed	Checked	Date
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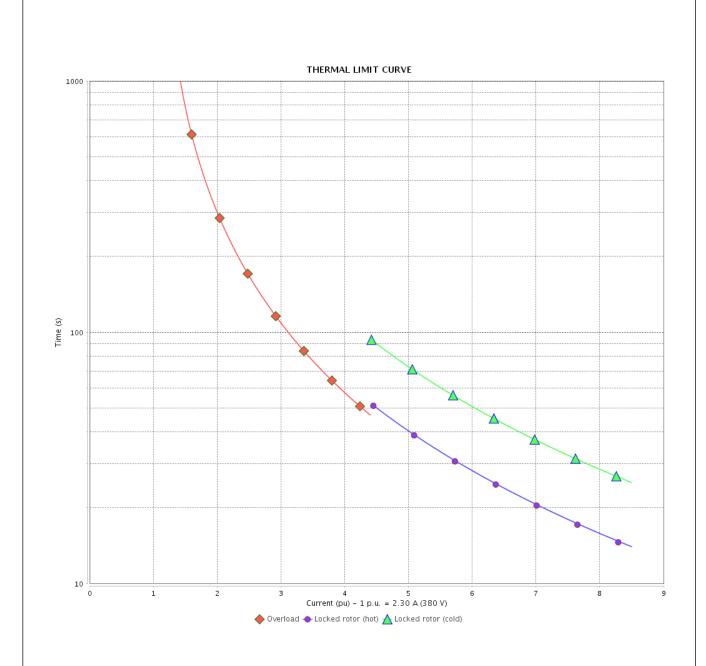


Customer	:				
Product line	: NEMA Premium Efficienc Phase		Product code : Catalog # :	11520462 00236ST3QI	E145TC-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 380 V 50 Hz 2P IE3 : 2.30 A : 8.5 : 2.73 ft.lb : 370 % : 370 % : 2885 rpm	Moment of Duty cycle Insulation Service far Temperature Design	class ctor	: 0.0605 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	b
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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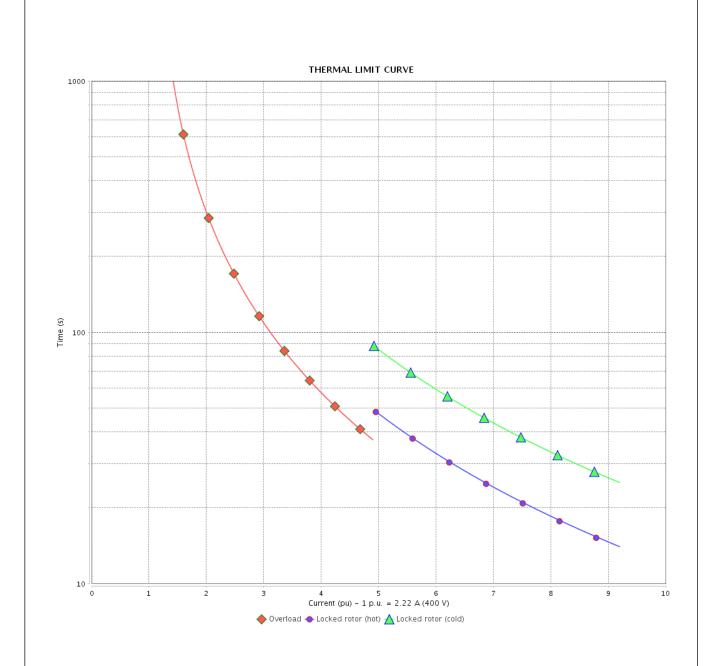


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11520462 00236ST3QII	E145TC-W22
Performance		: 400 V 50 Hz 2P IE3		<u> </u>	0.0005 61	
Rated current LRC		: 2.22 A : 9.2	Duty cycle		: 0.0605 sq.ft.l : Cont.(S1)	0
Rated torque Locked rotor tord		: 2.72 ft.lb : 409 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		: 420 %	Temperat		: 1.25 : 80 K	
Rated speed		: 2895 rpm	Design		: B	
Heating constan						
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

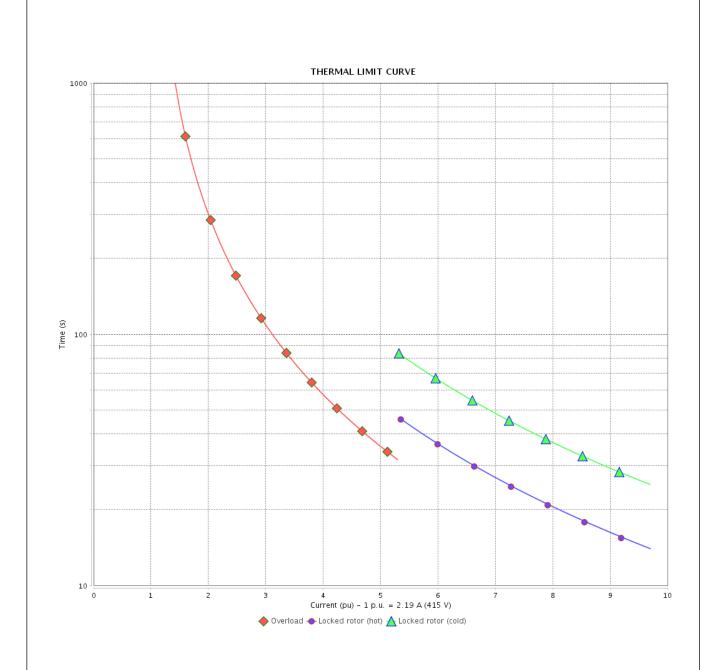


Customer		:			·	
Product line		: NEMA Premium Efficiency <sup>*</sup> Phase		Product code : Catalog # :	11520462 00236ST3QI	E145TC-W22
						L14010 W22
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed Heating constant	: : : : : : : : :	415 V 50 Hz 2P IE3 2.19 A 9.7 2.71 ft.lb 450 % 459 % 2905 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor ıre rise	: 0.0605 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage

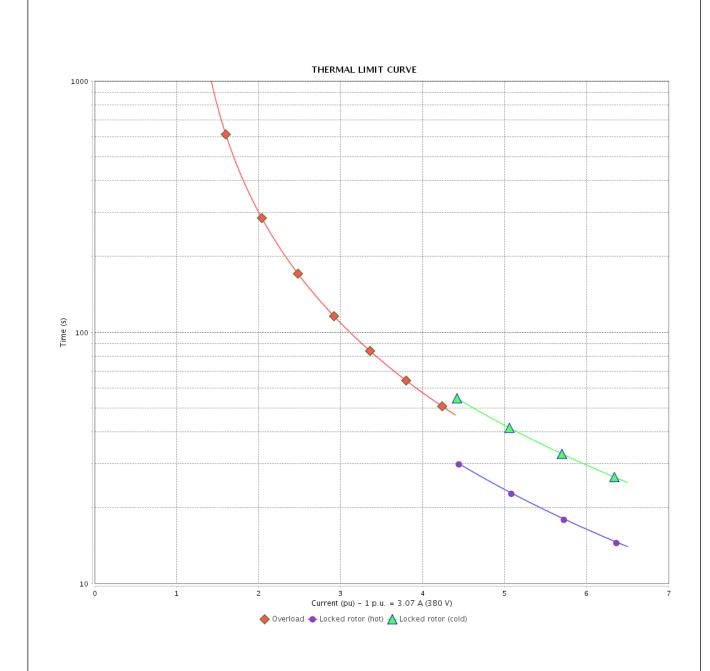


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11520462 00236ST3QII	E145TC-W22
Performance		: 380 V 50 Hz 2P IE2				
Rated current LRC		: 3.07 A : 6.5	Moment of	of inertia (J)	: 0.0605 sq.ft.l : Cont.(S1)	b
Rated torque		: 3.70 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 270 % : 270 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 2835 rpm	Design		: B	
Heating constant						
Cooling constant	t 	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

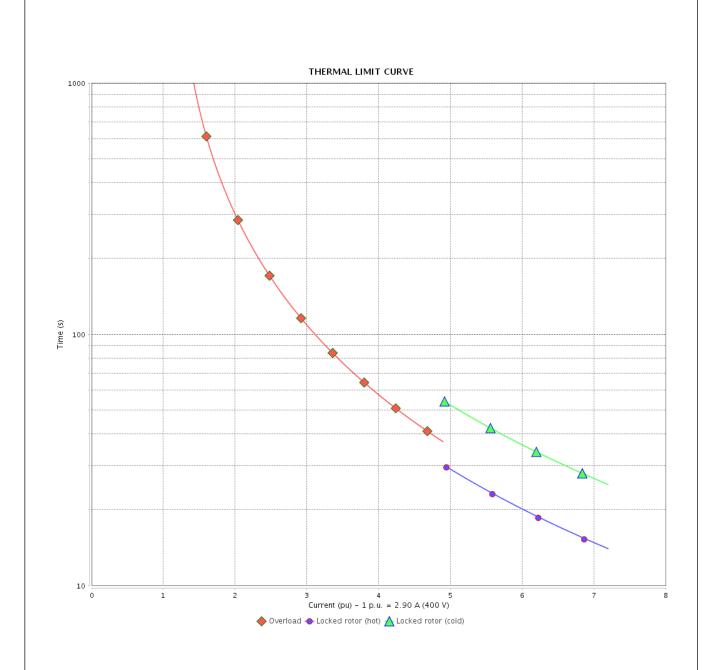


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11520462 00236ST3QII	E145TC-W22
Performance Rated current		: 400 V 50 Hz 2P IE2 : 2.90 A	Moment	of inertia (J)	: 0.0605 sq.ft.ll	h
LRC	:	: 7.2	Duty cycle	Э	: Cont.(S1)	
Rated torque		: 3.69 ft.lb	Insulation		: F : 1.25	
Locked rotor tord Breakdown torqu		: 300 % : 310 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 2850 rpm	Design		: B	
Heating constant						
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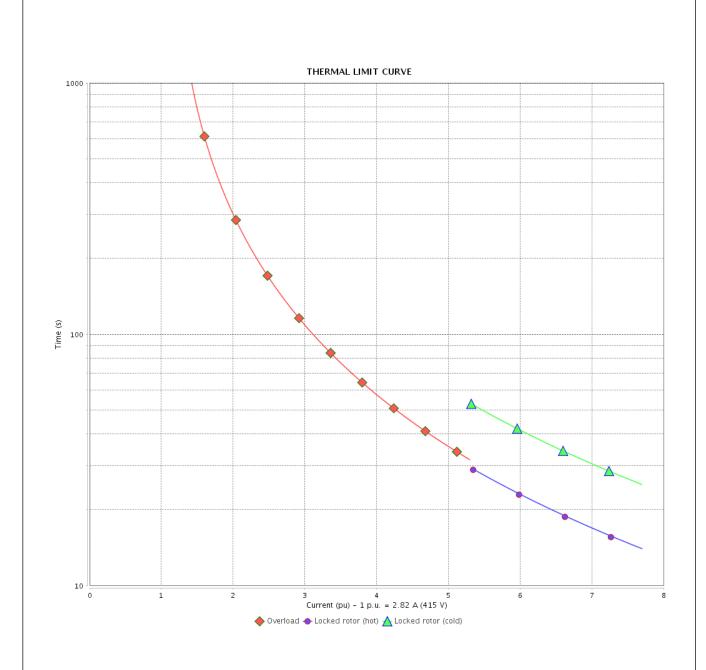


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11520462 00236ST3QII	E145TC-W22
Performance		: 415 V 50 Hz 2P IE2				
Rated current LRC		: 2.82 A : 7.7	Moment of Duty cycle	of inertia (J) e	: 0.0605 sq.ft.ll : Cont.(S1)	b
Rated torque Locked rotor tord		: 3.67 ft.lb : 330 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		: 340 %	Temperat		: 80 K	
Rated speed		: 2865 rpm	Design		: B	
Heating constant						
Cooling constant	l	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product co

Phase

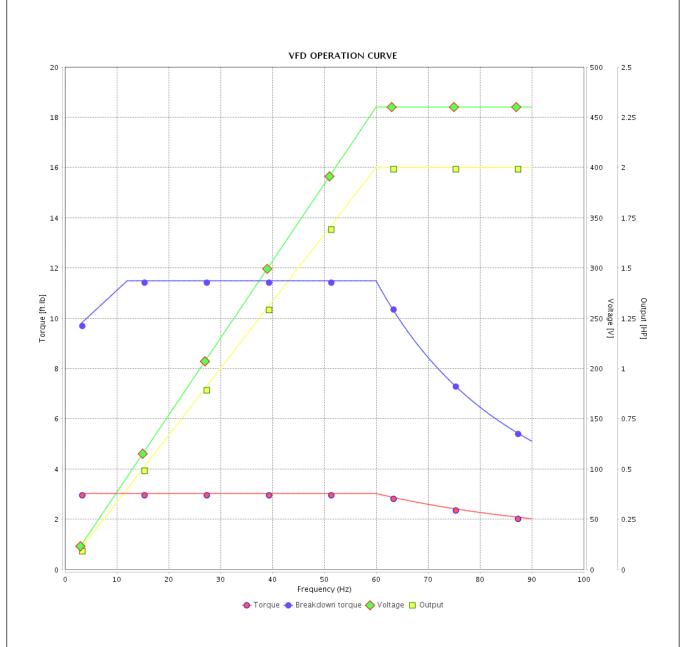
Product code: 11520462

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Performance	: 46	60 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8. : 3. jue : 38 ie : 38	.56 A 9 .02 ft.lb 50 % 80 % 475 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0605 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
Rev.		Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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Date

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Product line : NEMA Premium Efficiency Three- Product code : 11520462

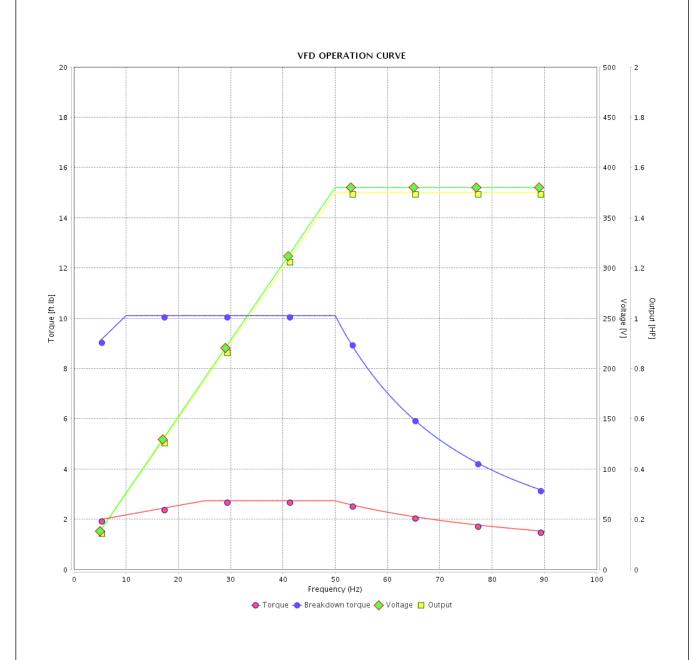
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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.30 A : 8.5 : 2.73 ft.lb : 370 % : 370 % : 2885 rpm	Moment of inertia (J) : 0.0605 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.25  Temperature rise : 80 K  Design : B		)	
Rev.	Changes Summary		Performed	Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Produ

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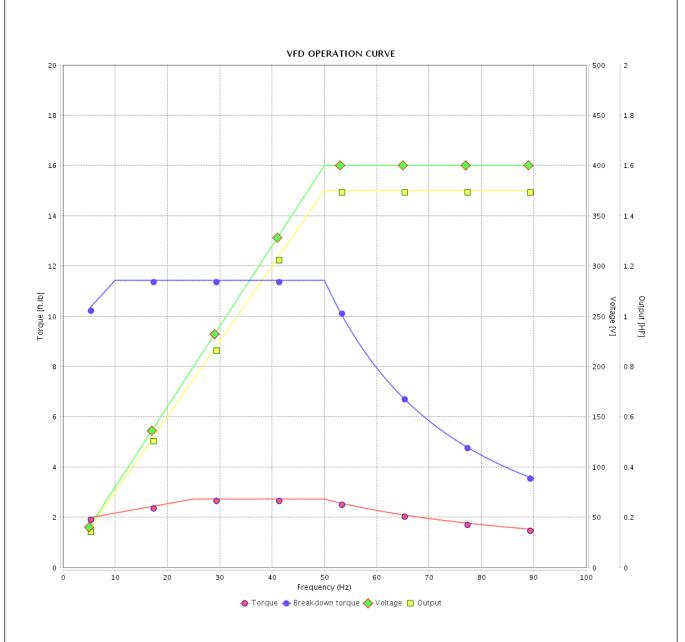
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					·	
Performance	:	400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	iue :	2.22 A 9.2 2.72 ft.lb 409 % 420 % 2895 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.0605 sq.ft.lt : Cont.(S1) : F : 1.25 : 80 K : B	0
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#### Three Phase Induction Motor - Squirrel Cage

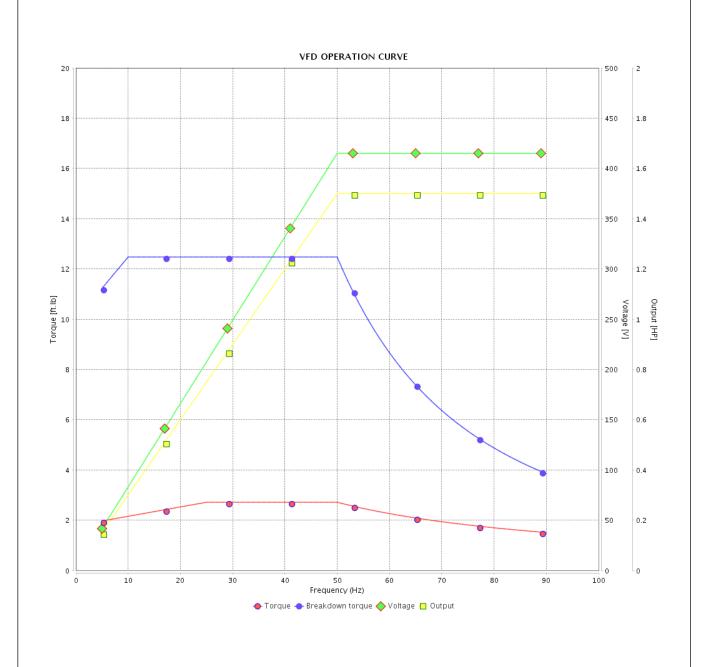


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Product line : NEMA Premium Efficiency Three- Product code : 11520462

Phase

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Performance	: 4	: 415 V 50 Hz 2P IE3					
Rated current	lated current : 2.19 A		Moment o	Moment of inertia (J)		.lb	
LRC	: 9	.7	Duty cycle	)	: Cont.(S1)		
Rated torque	: 2	.71 ft.lb	Insulation	class	: F		
Locked rotor torqu	ie : 4	50 %	Service fa	ctor	: 1.25		
=		59 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 2	905 rpm	Design		: B		
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#### Three Phase Induction Motor - Squirrel Cage



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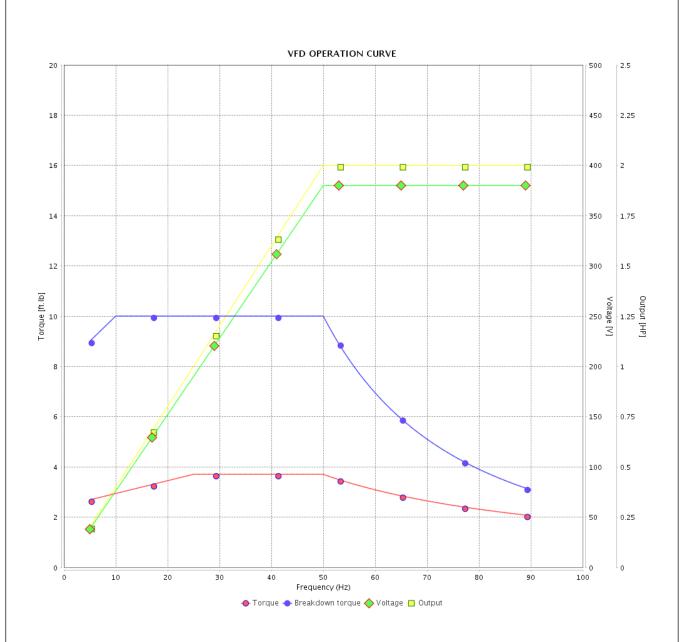
Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 11520462

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Performance	: 380 V 50 Hz 2P IE2				
Rated current	: 3.07 A	Moment of inertia (J)		: 0.0605 sq.ft.lb	
LRC Rated torque	: 6.5 : 3.70 ft.lb	Duty cycle Insulation class		: Cont.(S1) : F	
Locked rotor torque	: 270 %	Service factor		: 1.25	
Breakdown torque	: 270 %	Temperature rise		: 80 K	
Rated speed	: 2835 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage

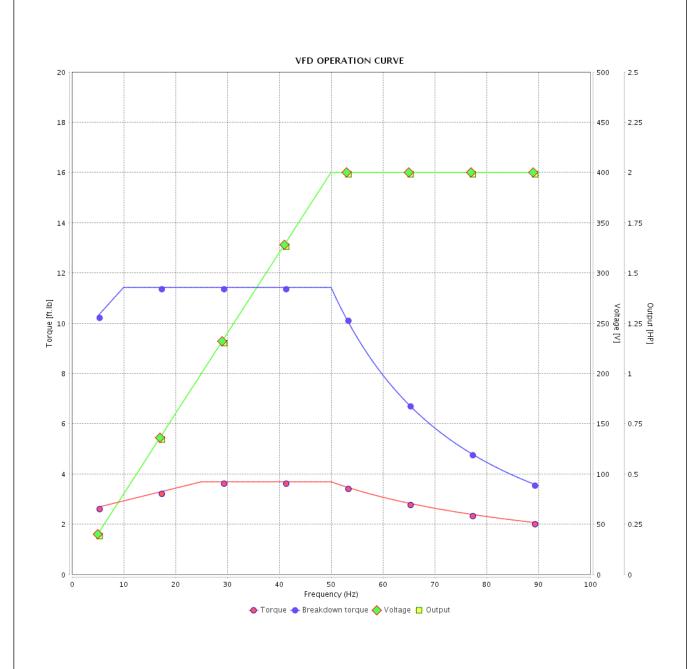


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Product line : NEMA Premium Efficiency Three- Product code : 11520462

Phase

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Performance	:	400 V 50 Hz 2P IE2					
Rated current		2.90 A	Moment of	f inertia (J)	: 0.0605 sq.ft	: 0.0605 sq.ft.lb	
LRC	:	7.2	Duty cycle	<b>;</b>	: Cont.(S1)		
Rated torque		3.69 ft.lb	Insulation	class	: F		
Locked rotor torque	e :	300 %	Service fa	ctor	: 1.25		
Breakdown torque	:	310 %	Temperati	Temperature rise		: 80 K	
Rated speed	:	2850 rpm	Design		: B		
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

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Product line : NEMA Premium Efficiency Three- Product code :

Phase

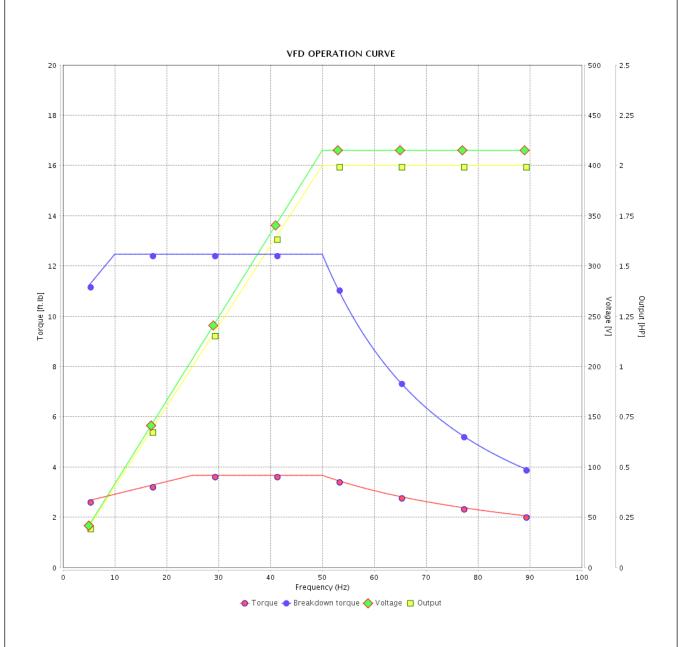
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Performance	:	415 V 50 Hz 2P	IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : : :	2.82 A 7.7 3.67 ft.lb 330 % 340 % 2865 rpm	Duty cycl Insulation Service for	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0605 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary			Performed	Checked	Date	
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