DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11610563

Phase

Catalog #: 00218ET3E145TC-W22

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

Insulation class : F Mounting : F-1

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

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

Altitude		: 1000 m.a.	s.l.	Approx	. weight³	: 5	2.4 lb	
Protection degre	е	: IP55		Momer	nt of inertia (J) : 0	.1561 sq.ft.lb	
Design		: B						
Output [HP]		2	1.5	1.5	1.5	2	2	2
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		5.52/2.76	2.57	2.57	2.56	3.33	3.22	3.14
L. R. Amperes [A]		45.8/22.9	21.1	22.4	21.5	20.0	21.3	22.9
LRC [A]		8.3x(Code L)	8.2x(Code L)	8.7x(Code	8.4x(Code	6.0x(Code H)	6.6x(Code J)	7.3x(Code K)
				M)	M)			
No load current [A		3.26/1.63	1.61	1.80	1.97	1.61	1.80	1.97
Rated speed [RPN	/ []	1750	1460	1465	1465	1435	1440	1450
Slip [%]		2.78	2.67	2.33	2.33	4.33	4.00	3.33
Rated torque [ft.lb]			5.40	5.38	5.38	7.32	7.29	7.24
Locked rotor torqu	e [%]	270	290	320	350	220	229	250
Breakdown torque	[%]	320	330	380	409	240	260	290
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		23s (cold)	32s (cold)	28s (cold)	27s (cold)	23s (cold)	21s (cold)	21s (cold)
		13s (hot)	18s (hot)	16s (hot)	15s (hot)	13s (hot)	12s (hot)	12s (hot)
Noise level ²		51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%	85.2	83.5	80.9	80.3	86.7	83.7	83.8
Efficiency (9/)	50%		84.0	82.0	81.4	85.5	84.0	84.0
Efficiency (%)	75%	86.5	84.2	83.5	83.1	84.0	84.0	84.0
	100%	86.5	84.5	84.5	84.1	82.5	84.0	84.0
25%		0.32	0.31	0.27	0.25	0.39	0.35	0.32
Power Factor	50%	0.57	0.55	0.50	0.47	0.66	0.62	0.60
rower ractor	75%	0.70	0.69	0.64	0.61	0.78	0.74	0.72
	100%	0.79	0.77	0.73	0.71	0.83	0.80	0.79

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

Bearing type : 6205 ZZ 6204 ZZ Max. traction : 157 lb Sealing : V'Ring V'Ring Max. compression : 209 lb

Lubrication interval : - - - Lubricant amount : - - -

Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 5.85A SF 1.15 SFA 6.73A

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



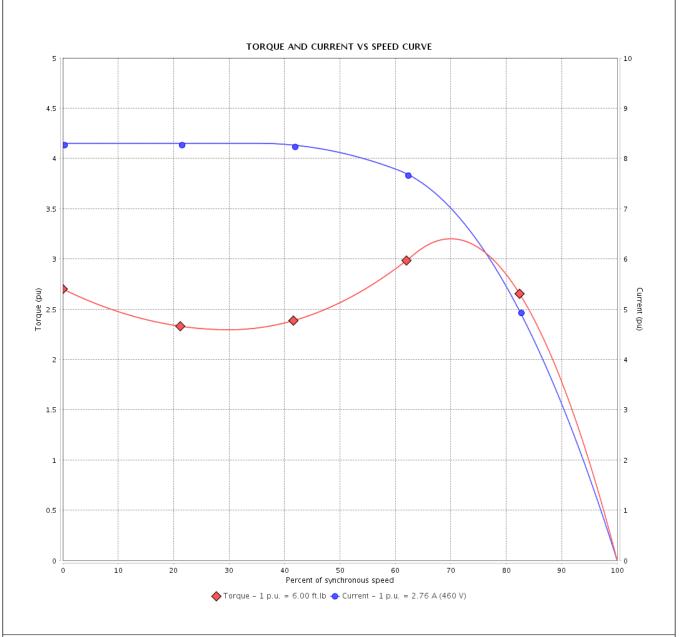
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11610563

Catalog #: 00218ET3E145TC-W22



Performance : 230/460 V 60 Hz 4P Rated current : 5.52/2.76 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) : F : 6.00 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 270 % : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1750 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11610563 Catalog #: 00218ET3E145TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 40 50 60 Percent of synchronous speed ◆Torque - 1 p.u. = 5.40 ft.lb ◆ Current - 1 p.u. = 2.57 A (380 V) : 380 V 50 Hz 4P IE3 Performance : 2.57 A : 0.1561 sq.ft.lb Rated current Moment of inertia (J) : Cont.(S1) LRC : 8.2 Duty cycle Rated torque : 5.40 ft.lb Insulation class

e : 33	80 %	Temperature Design		: 1.25 : 80 K : B	
: 3	2s (cold) 18s (hot)				
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	e : 33 : 14 e : 3	e : 330 % : 1460 rpm e : 32s (cold) 18s (hot) Changes Summa	e : 330 % Temperature : 1460 rpm Design e : 32s (cold) 18s (hot) Changes Summary	e : 330 % Temperature rise Design e : 32s (cold) 18s (hot) Changes Summary Performed	Temperature rise : 80 K : 1460 rpm Design : B Example : 32s (cold) 18s (hot) Changes Summary Performed Checked

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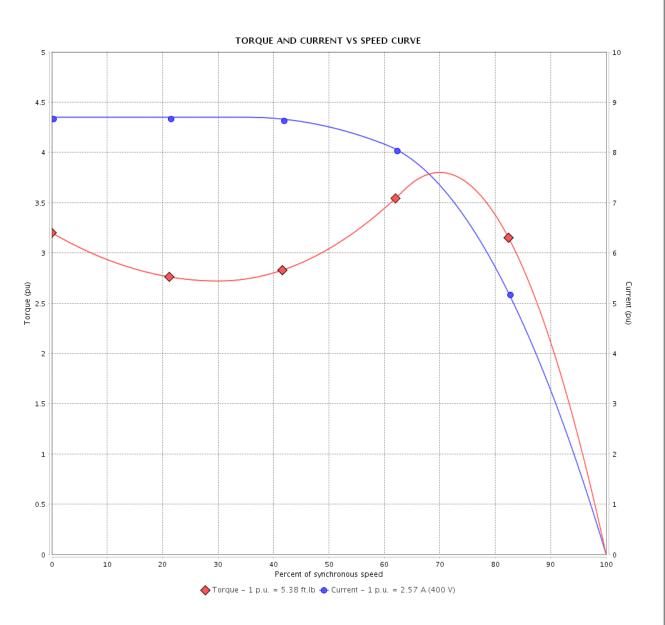


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11610563

Phase

Catalog #: 00218ET3E145TC-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 2.57 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 5.38 ft.lb : F Locked rotor torque : 320 % Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B

Locked rotor time : 28s (cold) 16s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11610563 Catalog #: 00218ET3E145TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 5.38 ft.lb ◆ Current - 1 p.u. = 2.56 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 2.56 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) : 5.38 ft.lb Insulation class : F Rated torque : 350 % Locked rotor torque Service factor : 1.25 Breakdown torque : 409 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Date Rev. Performed Checked **Changes Summary**

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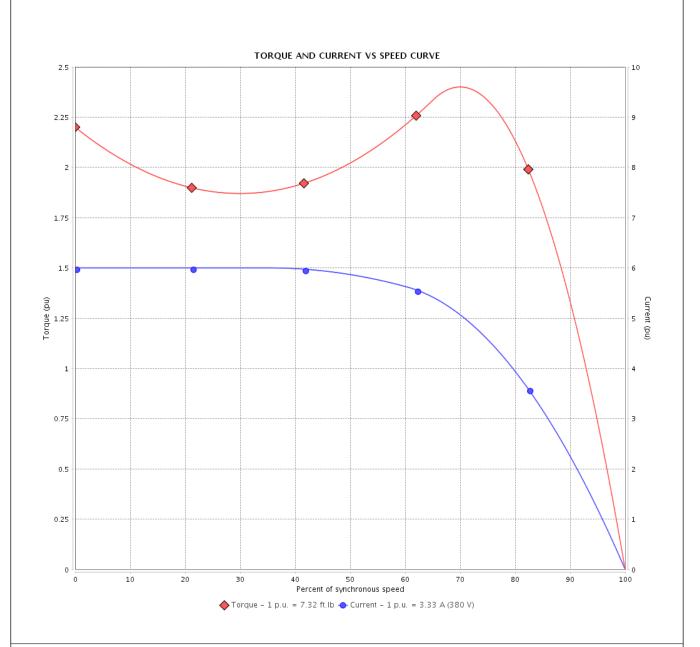


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11610563

Phase

Catalog #: 00218ET3E145TC-W22



: F : 7.32 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1435 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

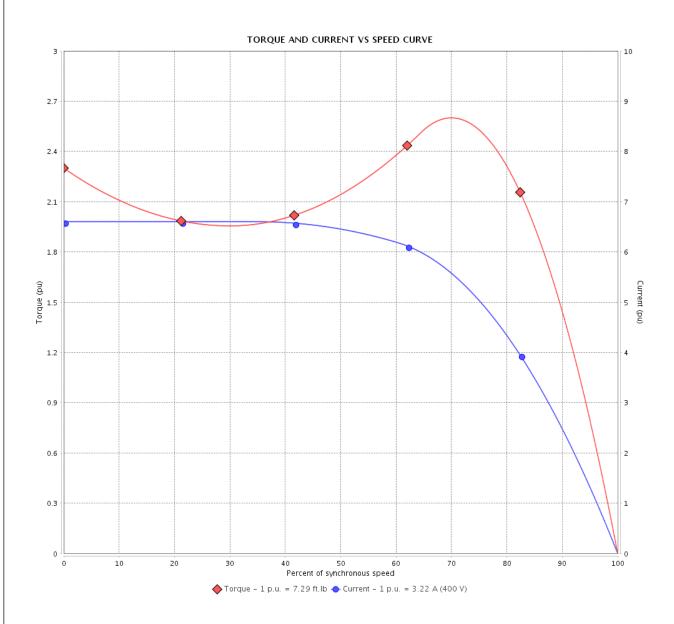
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Customer Product line : NEMA Premium Efficiency Three-Product code: 11610563

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Performance	: 400 V 50 Hz 4P IE2		
Rated current	: 3.22 A	Moment of inertia (J)	: 0.1561 sq.ft.lb
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 7.29 ft.lb	Insulation class	:F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1440 rpm	Design	: B
Locked rotor time	: 21s (cold) 12s (hot)		

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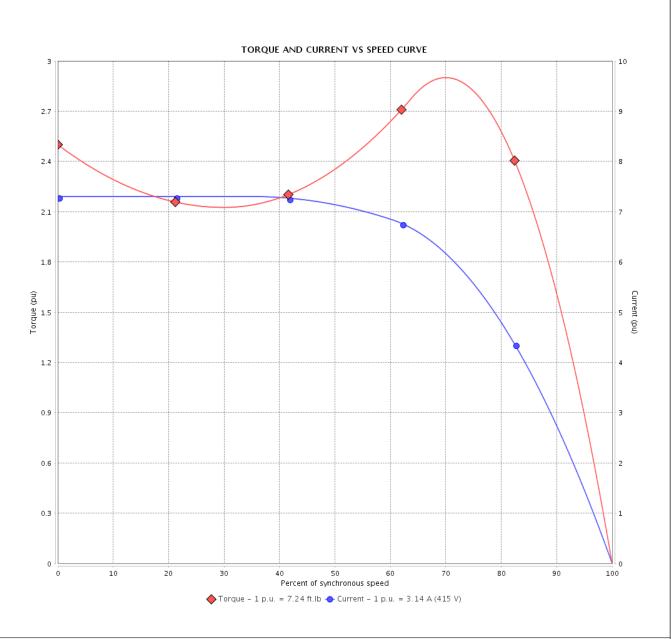
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11610563

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Performance : 415 V 50 Hz 4P IE2 Rated current : 3.14 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 7.24 ft.lb : F Service factor Locked rotor torque : 250 % : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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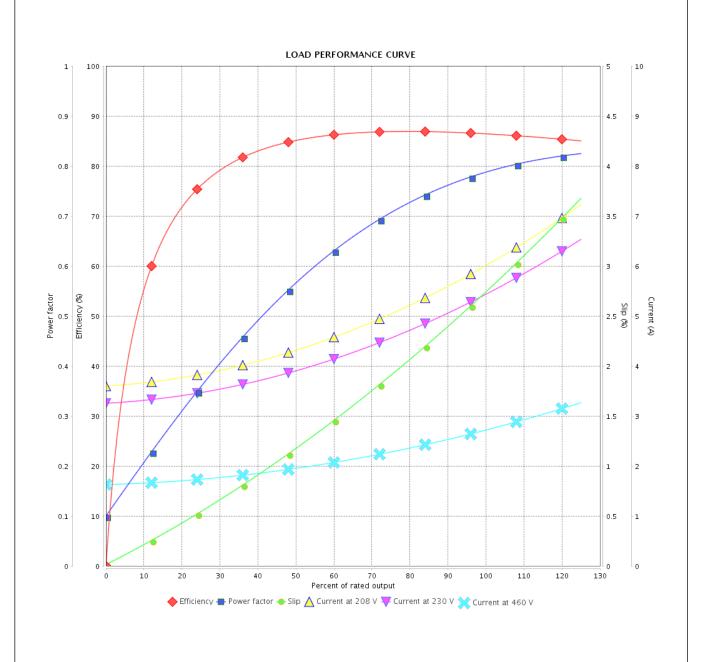


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11610563

Phase

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Performance	: 2	230/460 V 60 Hz 4P				
Rated current	: 5	5.52/2.76 A	Moment o	f inertia (J)	: 0.1561 sq.ft.lb	
LRC	: 8	8.3	Duty cycle	:	: Cont.(S1)	
Rated torque	: (6.00 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	270 %	Service fa	ctor	: 1.25	
Breakdown torque	: ;	320 %	Temperati	ıre rise	: 80 K	
Rated speed	: '	1750 rpm	Design		: B	
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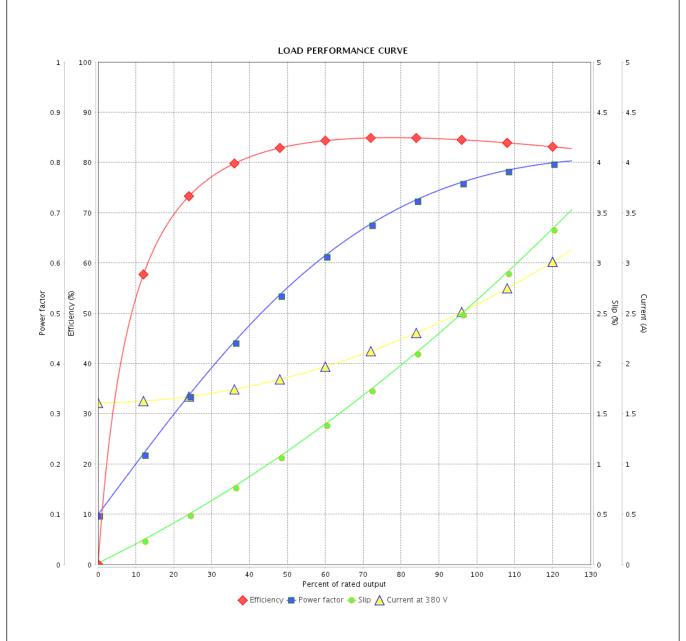
Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 11610563

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Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 2.57 A	Moment o	inertia (J)	: 0.1561 sq.ft.lb	
LRC	: 8.2	Duty cycle		: Cont.(S1)	
Rated torque	: 5.40 ft.lb	Insulation	class	: F	
Locked rotor torque	: 290 %	Service fa	ctor	: 1.25	
Breakdown torque	: 330 %	Temperature rise		: 80 K	
Rated speed	: 1460 rpm	Design		: B	
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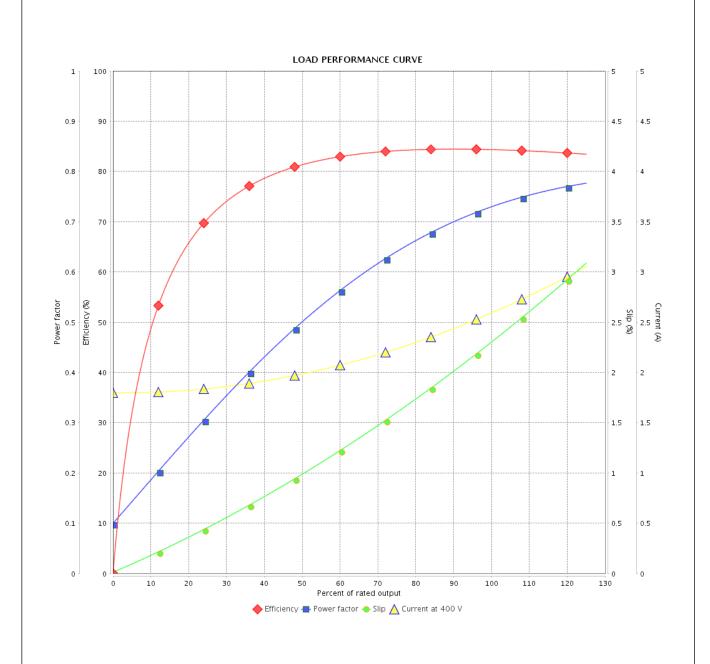
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Phase

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.57 A : 8.7 : 5.38 ft.lb : 320 % : 380 % : 1465 rpm	Moment of inertia (J) : 0.1561 sq.ft Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.25 Temperature rise : 80 K Design : B		lb	
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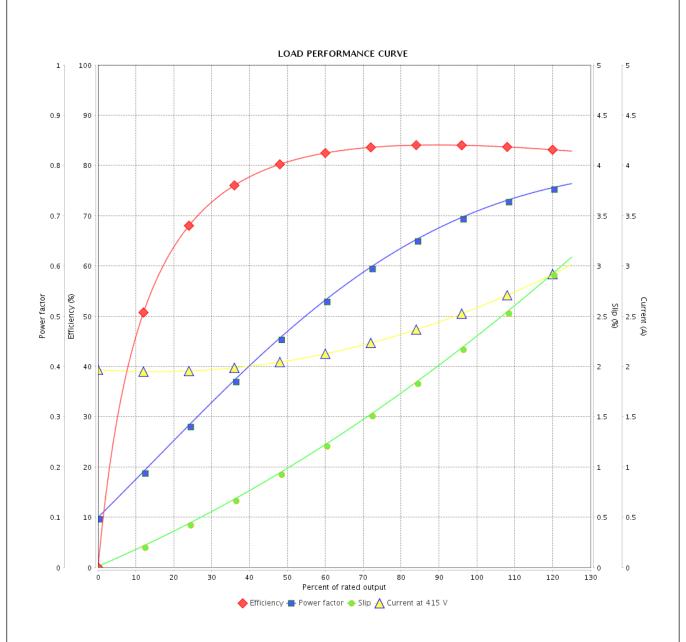
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Performance	: 415 V 50 Hz 4P IE3				
Rated current	rrent : 2.56 A Moment of inertia (J)		inertia (J)	: 0.1561 sq.ft.	lb
LRC	: 8.4	Duty cycle		: Cont.(S1)	
Rated torque	: 5.38 ft.lb	Insulation class		: F	
Locked rotor torque	: 350 %	Service factor		: 1.25	
Breakdown torque	: 409 %	Temperature rise		: 80 K	
Rated speed	: 1465 rpm	Design		: B	
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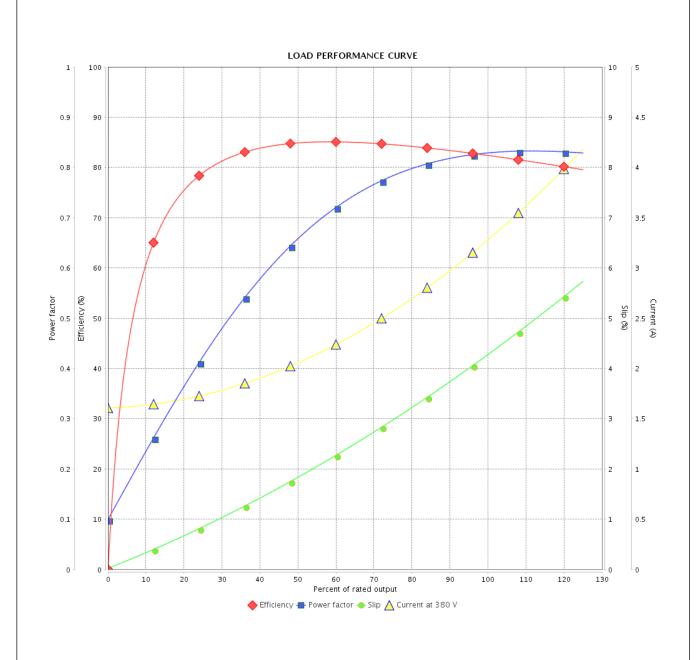


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11610563

Phase

Catalog #: 00218ET3E145TC-W22



Performance	: 3	380 V 50 Hz 4P IE1					
Rated current	d current : 3.33 A		Moment o	f inertia (J)	: 0.1561 sq.ft.lb		
LRC	: 6	3.0	Duty cycle	;	: Cont.(S1)		
Rated torque	: 7	7.32 ft.lb	Insulation	class	: F		
Locked rotor torque : 2		220 %	Service fa	ctor	: 1.25		
Breakdown torque	: 2	240 %	Temperatu	Temperature rise		: 80 K	
Rated speed	: 1	1435 rpm	Design		: B		
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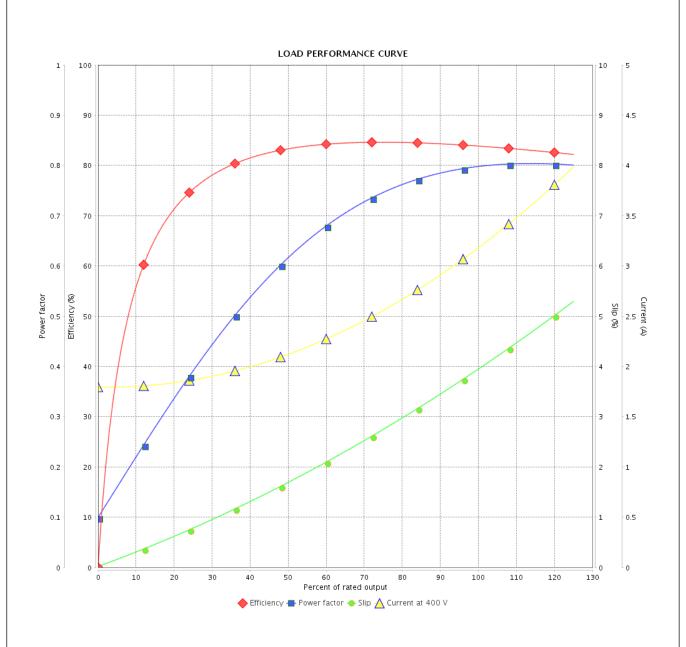
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11610563

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Performance : 400 V 50 Hz 4P IE2 Rated current : 3.22 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 : 7.29 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1440 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

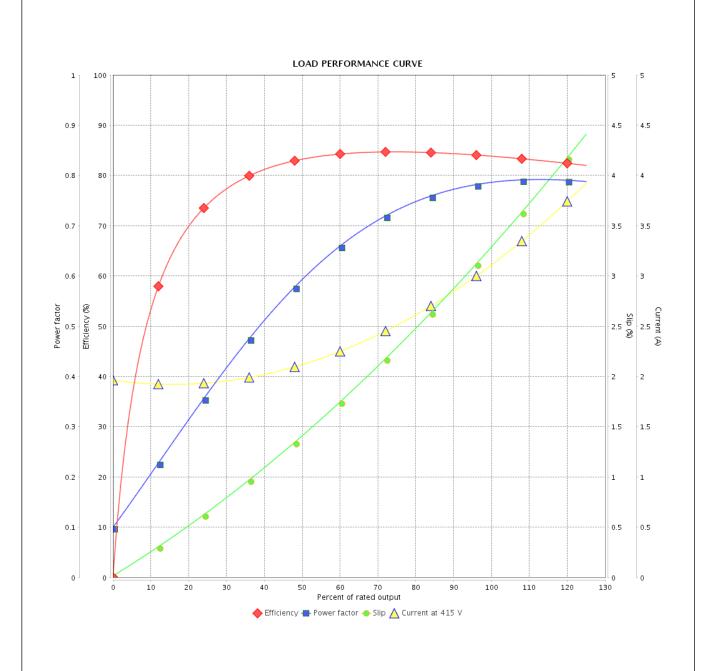
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11610563

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Performance	: 4	115 V 50 Hz 4P IE2					
Rated current : 3.14		3.14 A	Moment o	Moment of inertia (J)		.lb	
LRC :		7.3	Duty cycle	:	: Cont.(S1)		
Rated torque		7.24 ft.lb	Insulation	class	: F		
Locked rotor torque		250 %	Service fa	ctor	: 1.25		
Breakdown torque	: 2	290 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 1	1450 rpm	Design		: B		
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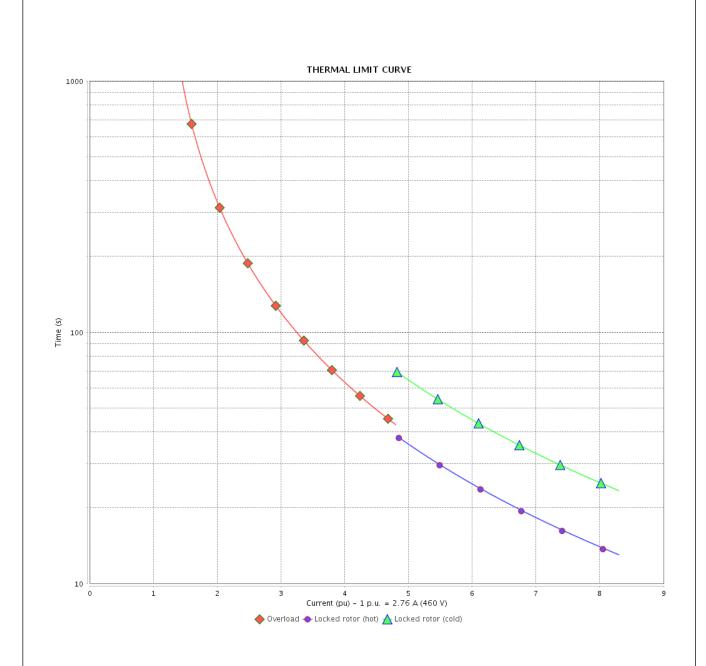


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Product line	:1	NEMA Premium Efficiency	Three-	Product code :	11610563	
		hase				45TO M/00
				Catalog # :	00218ET3E1	451C-W22
Performance	. 24	30/460 V 60 Hz 4P				
Rated current		.52/2.76 A	Moment o	f inertia (J)	: 0.1561 sq.ft.l	b
LRC	: 8.	.3	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torque		.00 ft.lb 70 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 32	20 %	Temperatu		: 80 K	
Rated speed	: 17	750 rpm	Design		: B	
Heating constant						
Cooling constant		-				
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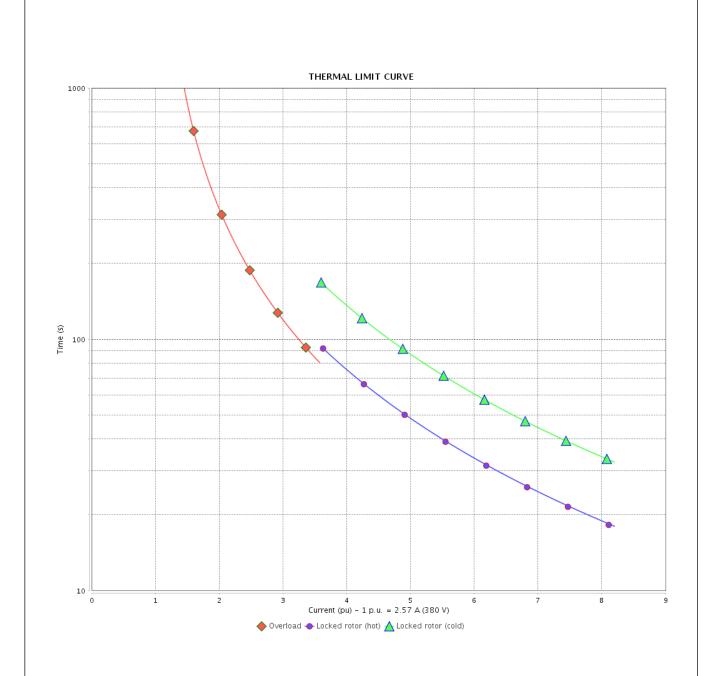


Customer	:			_	
Product line	: NEMA Premium Efficiency	Three-	Product code :	11610563	
	Phase				45TO M/00
			Catalog # :	00218ET3E1	451C-W22
Performance	: 380 V 50 Hz 4P IE3	T-			
Rated current LRC	: 2.57 A : 8.2	Moment o	f inertia (J)	: 0.1561 sq.ft.l	b
Rated torque	: 5.40 ft.lb	Insulation	class	: Cont.(S1) : F	
Locked rotor torque	: 290 % : 330 %	Service fa Temperati		: 1.25 : 80 K	
Breakdown torque Rated speed	: 1460 rpm	Design	ire rise	: B	
Heating constant		-			
Cooling constant					
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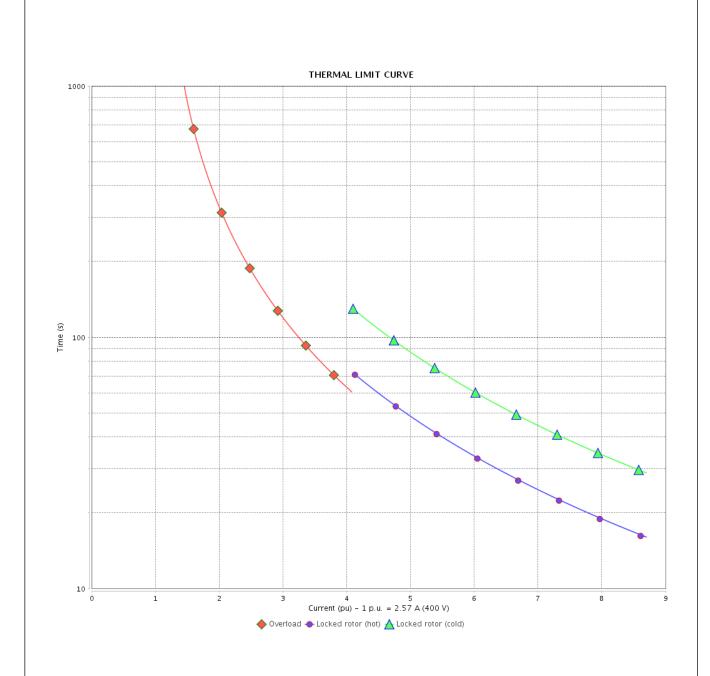


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11610563 00218ET3E1	45TC-W22
Performance		: 400 V 50 Hz 4P IE3	I			
Rated current LRC		: 2.57 A : 8.7	Moment of Duty cycle	of inertia (J) e	: 0.1561 sq.ft.l : Cont.(S1)	b
Rated torque		: 5.38 ft.lb : 320 %	Insulation Service fa	class	: F : 1.25	
Locked rotor tord Breakdown torqu		: 380 %	Temperat		: 80 K	
Rated speed		: 1465 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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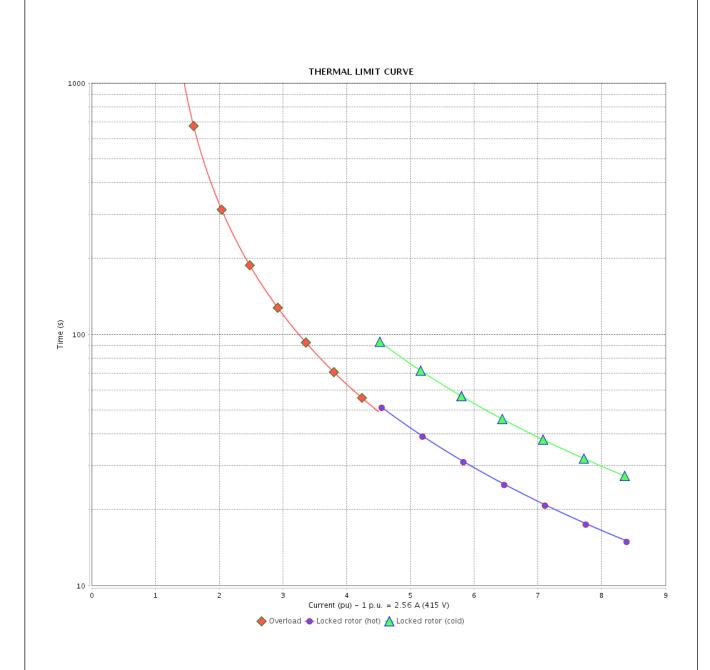


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11610563 00218ET3E1	45TC-W22
Performance		: 415 V 50 Hz 4P IE3	N 4	. f : ()	0.4504 6.11	
Rated current LRC		: 2.56 A : 8.4	Duty cycle		: 0.1561 sq.ft.ll : Cont.(S1)	0
Rated torque		: 5.38 ft.lb : 350 %	Insulation Service fa		: F : 1.25	
Locked rotor tord Breakdown torqu		: 409 %	Temperat		: 1.25 : 80 K	
Rated speed		: 1465 rpm	Design		: B	
Heating constant						
Cooling constant	ı	Changes Summan		Dorformad	Chaokad	Data
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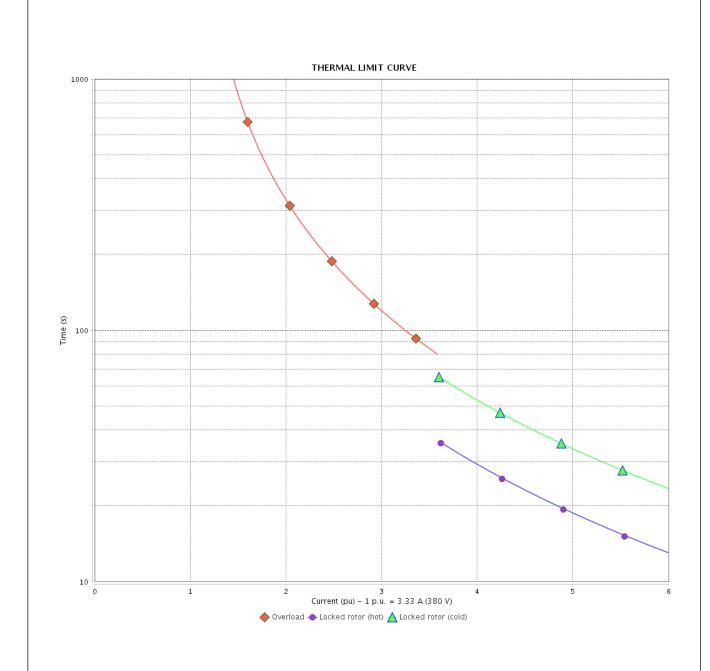


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11610563 00218ET3E1	45TC-W22
Performance		: 380 V 50 Hz 4P IE1				
Rated current LRC	:	: 3.33 A : 6.0	Duty cycle		: 0.1561 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 7.32 ft.lb : 220 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		: 240 %	Temperat		: 80 K	
Rated speed		: 1435 rpm	Design		: B	
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Cooling constant	l .	Changes Summary		Performed	Checked	Date
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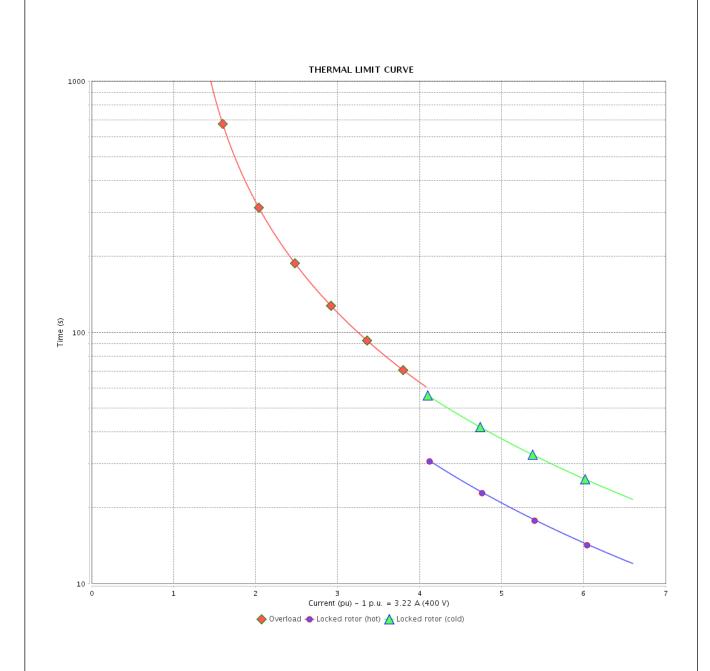


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11610563 00218ET3E1	45TC-W22
Performance		: 400 V 50 Hz 4P IE2	N 4	. f : ()	0.4504 8.1	
Rated current LRC	:	: 3.22 A : 6.6	Duty cycle		: 0.1561 sq.ft.l : Cont.(S1)	D
Rated torque Locked rotor tord		: 7.29 ft.lb : 229 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		: 229 % : 260 %	Temperat		: 1.25 : 80 K	
Rated speed		: 1440 rpm	Design		: B	
Heating constant						
Cooling constant	l .	Changes Summan		Dorformad	Chaokad	Doto
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Three Phase Induction Motor - Squirrel Cage



Customer



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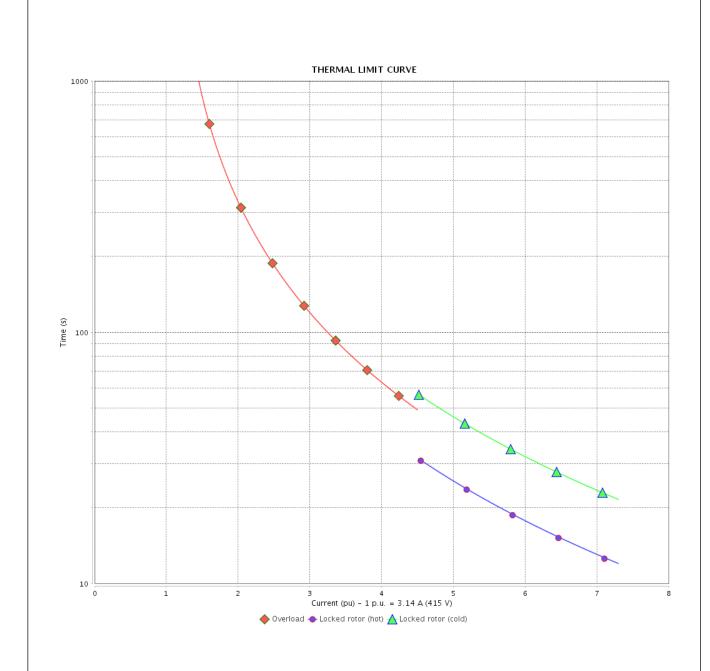


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11610563 00218ET3E1	45TC-W22
Performance		: 415 V 50 Hz 4P IE2		· · · · · · · · · · · · · · · · · · ·	0.4504 6.11	
Rated current LRC		: 3.14 A : 7.3	Duty cycle		: 0.1561 sq.ft.ll : Cont.(S1)	0
Rated torque		: 7.24 ft.lb : 250 %	Insulation Service fa		: F : 1.25	
Locked rotor tord Breakdown torqu		: 250 % : 290 %	Temperat		: 1.25 : 80 K	
Rated speed		: 1450 rpm	Design		: B	
Heating constant						
Cooling constant	<u> </u>	Changes Summary		Performed	Checked	Date
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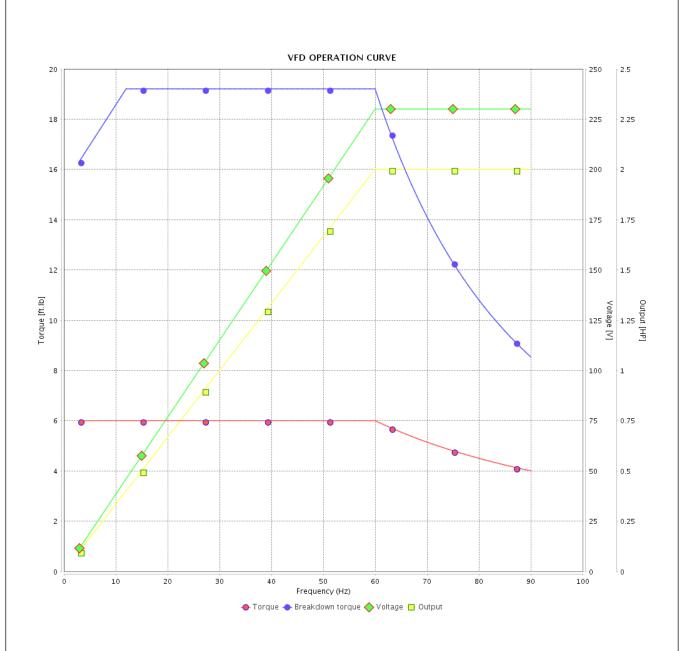
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11610563

Catalog #: 00218ET3E145TC-W22

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Performance : 230/460 V 60 Hz 4P Rated current : 5.52/2.76 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.3 : 6.00 ft.lb Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1750 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage

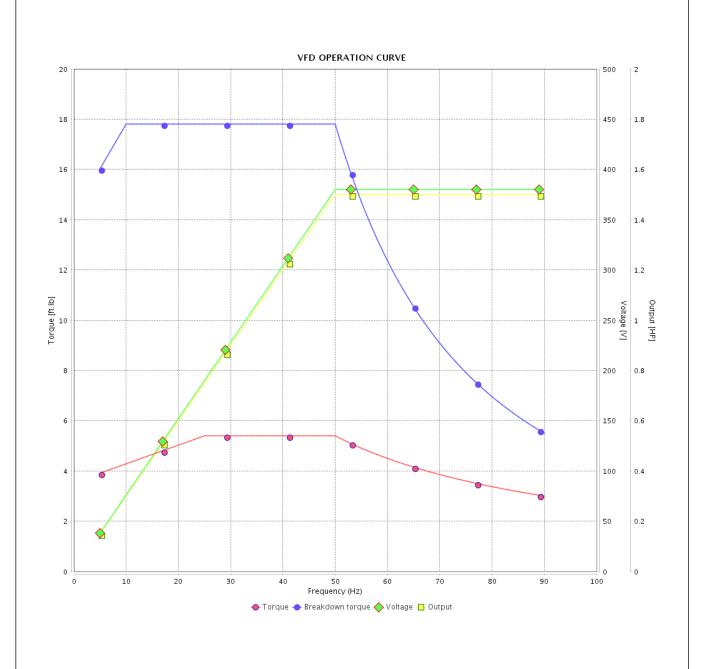


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11610563

Phase

Catalog #: 00218ET3E145TC-W22



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	ated current : 2.57 A		Moment o	Moment of inertia (J)		.lb
LRC	: 8	: 8.2)	: Cont.(S1)	
Rated torque	torque : 5.40 ft.lb		Insulation	class	: F	
Locked rotor torq	ue : 2	90 %	90 % Service factor		: 1.25	
Breakdown torque : 330 %		Temperati	Temperature rise			
Rated speed : 1460 rpm		Design		: B		
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

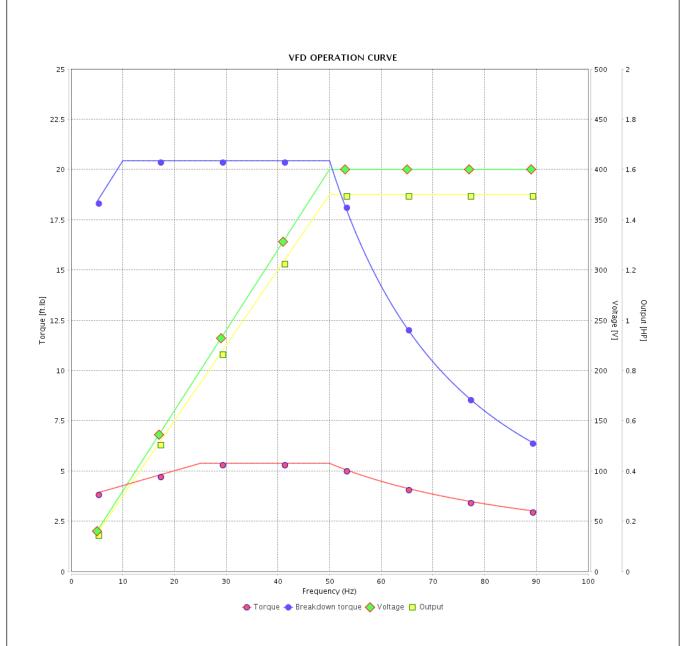
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Performance : 400 V 50 Hz 4P IE3 Rated current : 2.57 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 5.38 ft.lb : F Locked rotor torque : 320 % Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



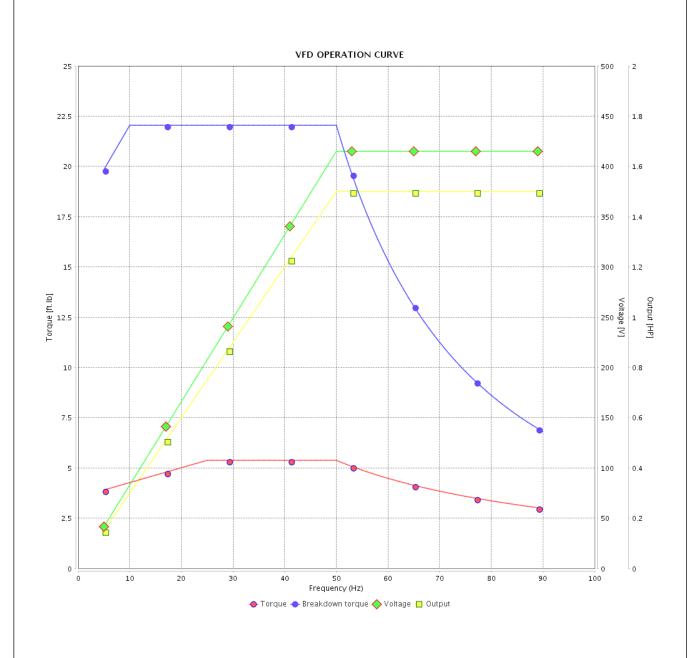
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11610563

Phase

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.56 A : 8.4 : 5.38 ft.lb : 350 % : 409 % : 1465 rpm	Moment of inertia Duty cycle Insulation class Service factor Temperature rise Design	` ,	: 0.1561 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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Product line : NEMA Premium Efficiency Three-

Phase

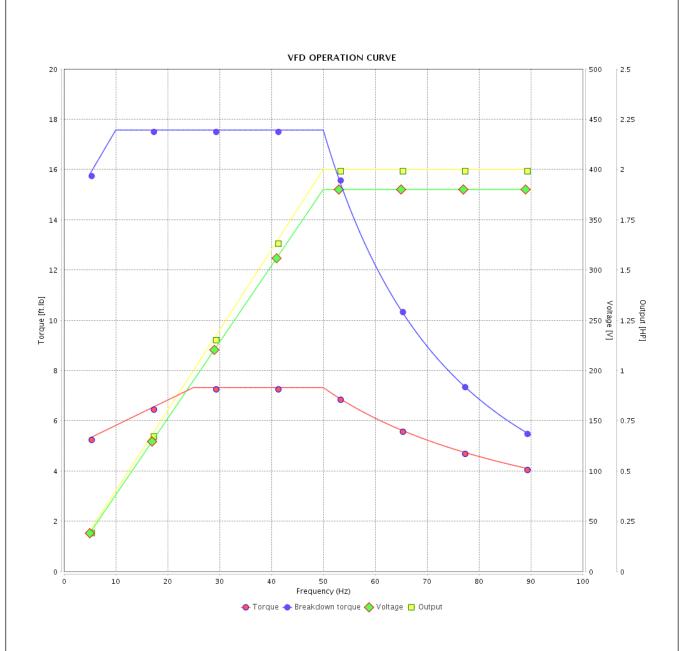
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Performance	: 38	80 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 7. ue : 22	.33 A .0 .32 ft.lb 20 % 40 % 435 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ector	: 0.1561 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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Performed by						

Three Phase Induction Motor - Squirrel Cage



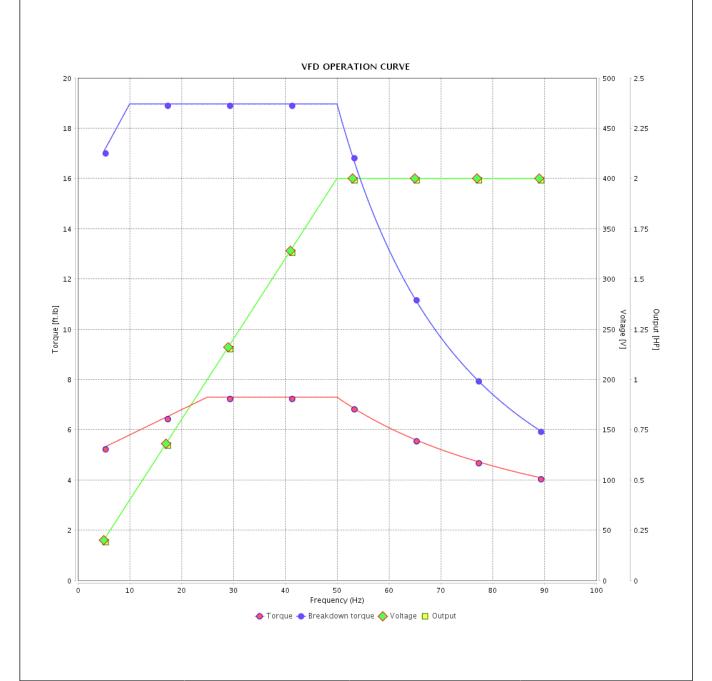
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance		400 V 50 Hz 4P IE2				
Rated current : 3.22 A		Moment o	Moment of inertia (J)		.lb	
LRC	: 6.6		Duty cycle	;	: Cont.(S1)	
Rated torque : 7.29 ft.lb		7.29 ft.lb	Insulation class		: F ` ´	
Locked rotor torque : 229 %		Service fa	ctor	: 1.25		
Breakdown torque : 260 %		Temperate	Temperature rise			
Rated speed		1440 rpm	Design		: B	
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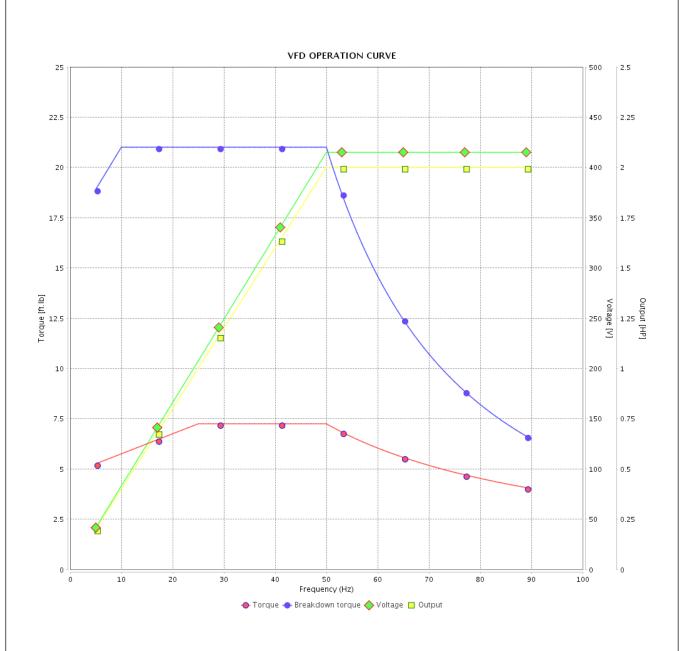
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11610563

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Performance : 415 V 50 Hz 4P IE2 Rated current : 3.14 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.3 : 7.24 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

