### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12385115

Catalog #: 01518ST3QIE254T-W22

Frame : 254/6T 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 Starting method Ambient temperature : Direct On Line

: 1000 m.a.s.l. Altitude Approx. weight3 : 320 lb

Ailliude		. 1000 III.a.	5.1.		t. weight		20 10	
Protection degre	e	: IP55		Momer	nt of inertia (J)	) : 2	2.62 sq.ft.lb	
Design		: B						
Output [HP]		15	10	10	10	15	15	15
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		18.0	15.2	14.8	14.5	21.5	20.5	20.0
L. R. Amperes [A]		115	109	115	120	105	111	118
LRC [A]		6.4x(Code	7.2x(Code J)	7.8x(Code J)	8.3x(Code K)	4.9x(Code E)	5.4x(Code F)	5.9x(Code
		G)						G)
No load current [A	]	7.20	6.70	7.10	7.40	7.10	7.60	7.40
Rated speed [RPN	<i>/</i> 1]	1770	1475	1480	1480	1455	1460	1465
Slip [%]		1.67	1.67	1.33	1.33	3.00	2.67	2.33
Rated torque [ft.lb]	]	44.6	35.6	35.5	35.5	54.1	54.0	53.8
Locked rotor torqu	e [%]	220	250	280	310	160	200	210
Breakdown torque	[%]	260	300	340	370	200	220	240
Service factor		1.25	1.25	1.25	1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		55s (cold)	72s (cold)	63s (cold)	57s (cold)	43s (cold)	41s (cold)	37s (cold)
		31s (hot)	40s (hot)	35s (hot)	32s (hot)	24s (hot)	23s (hot)	21s (hot)
Noise level <sup>2</sup>		64.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)
	25%	90.2	88.5	88.1	87.6	90.8	90.8	90.8
Efficiency (%)	50%	91.0	88.8	88.6	88.3	91.0	91.0	91.0
Lincicity (70)	75%	91.7	90.3	90.3	90.3	90.2	91.0	91.0

Drive end Non drive end Foundation loads

90.6

0.37

0.62

0.74

0.81

90.8

0.35

0.59

0.72

0.79

6309 C3 Bearing type 6209 C3 Max. traction : 459 lb Sealing Inpro/Seal Inpro/Seal : 779 lb Max. compression 20000 h 20000 h

90.4

0.40

0.65

0.77

0.83

Lubricant amount 13 g 9 g Mobil Polyrex EM Lubricant type

100%

25%

50%

75%

100%

92.4

0.43

0.68

0.78

0.83

Notes

Power Factor

Lubrication interval

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.

90.2

0.49

0.74

0.82

0.86

91.0

0.46

0.71

0.80

0.85

91.0

0.45

0.69

0.79

0.84

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### Three Phase Induction Motor - Squirrel Cage



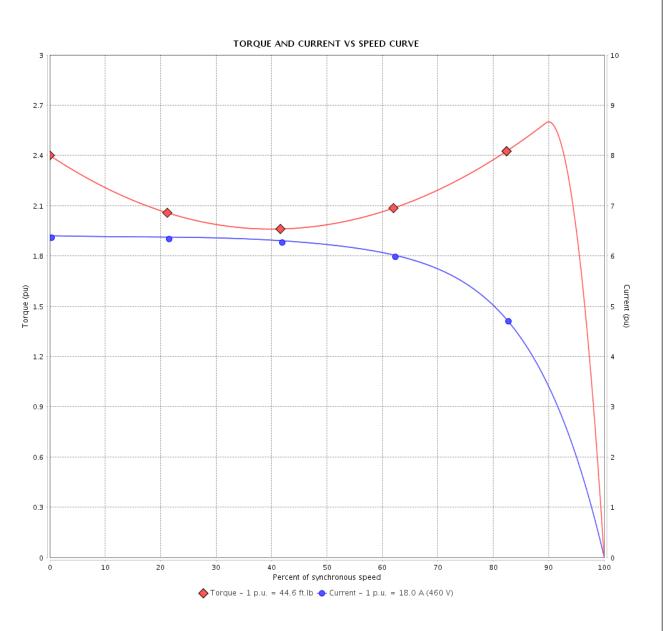
Customer :

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

Phase

Product code: 12385115

Catalog #: 01518ST3QIE254T-W22



Performance	: 460 V 60 Hz 4P		
Rated current	: 18.0 A	Moment of inertia (J) Duty cycle Insulation class	: 2.62 sq.ft.lb
LRC	: 6.4		: Cont.(S1)
Rated torque	: 44.6 ft.lb		: F
Locked rotor torque	: 220 %	Service factor Temperature rise Design	: 1.25
Breakdown torque	: 260 %		: 80 K
Rated speed	: 1770 rpm		: B

Locked rotor time : 55s (cold) 31s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12385115 Catalog #: 01518ST3QIE254T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 35.6 ft.lb ◆ Current - 1 p.u. = 15.2 A (380 V) Performance : 380 V 50 Hz 4P IE3 Rated current : 15.2 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 35.6 ft.lb : F : 250 % Locked rotor torque Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Locked rotor time : 72s (cold) 40s (hot) Rev. Performed Checked Date **Changes Summary** 

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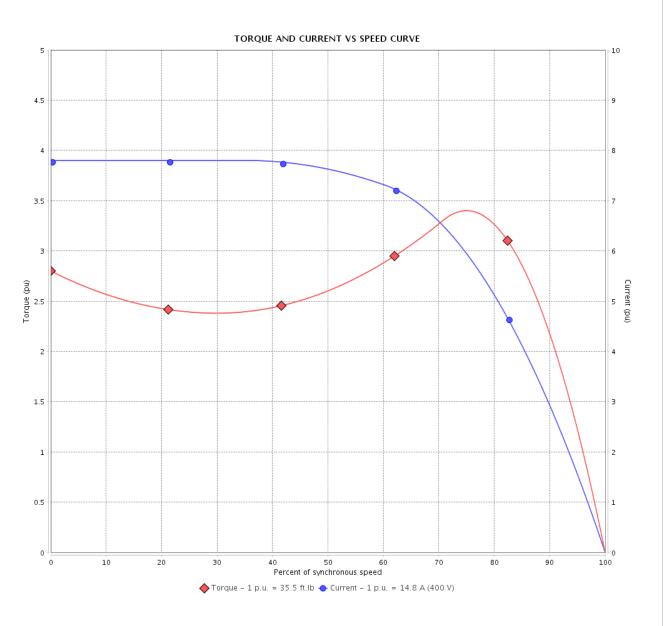


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 12385115

Catalog #: 01518ST3QIE254T-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 14.8 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 7.8 Duty cycle : Cont.(S1) : 35.5 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 280 % : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time

: 63s (cold) 35s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12385115 Catalog #: 01518ST3QIE254T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5

Performance : 415 V 50 Hz 4P IE3 Rated current : 14.5 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 35.5 ft.lb : F Locked rotor torque : 310 % Service factor : 1.25 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B

Percent of synchronous speed ♦ Torque – 1 p.u. = 35.5 ft.lb ♦ Current – 1 p.u. = 14.5 A (415 V)

Locked rotor time : 57s (cold) 32s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



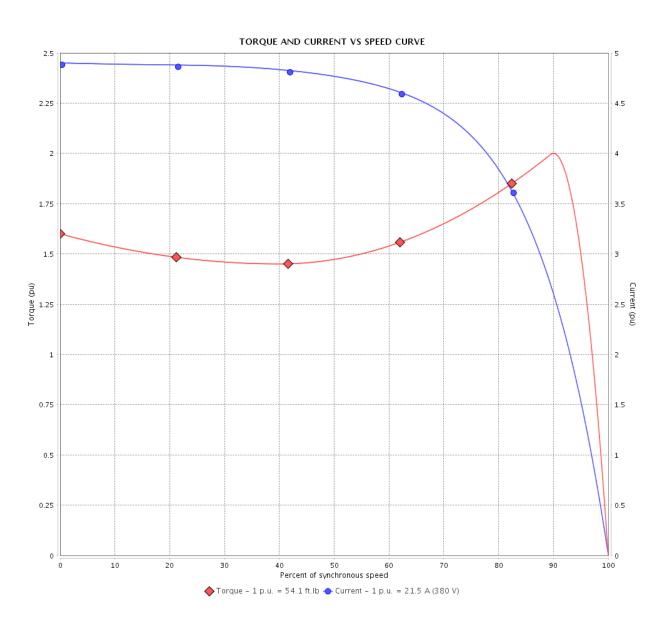
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 12385115

Catalog #: 01518ST3QIE254T-W22



Performance : 380 V 50 Hz 4P IE2 Rated current : 21.5 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 4.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 54.1 ft.lb : F Service factor Locked rotor torque : 160 % : 1.00 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B

Locked rotor time : 43s (cold) 24s (hot)

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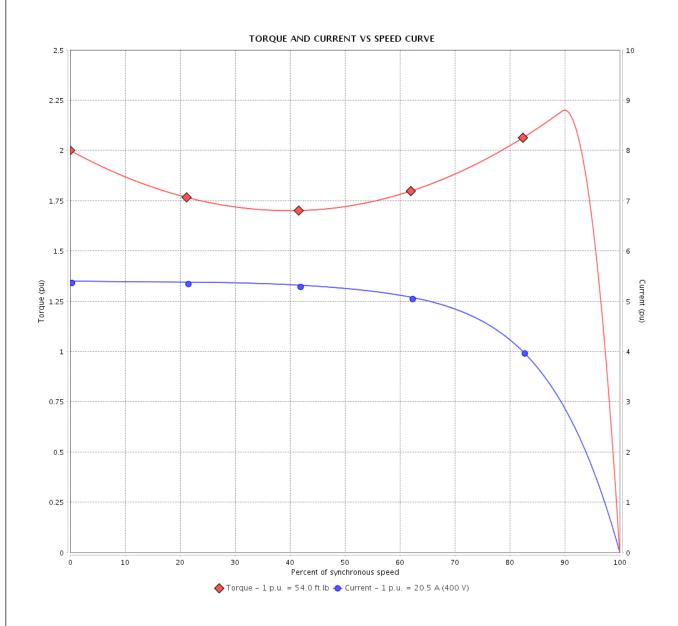
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12385115

Catalog #: 01518ST3QIE254T-W22



Performance	: 400 V 50 Hz 4P IE2		
Rated current	: 20.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 5.4	Duty cycle	: Cont.(S1)
Rated torque	: 54.0 ft.lb	Insulation class	:F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B
Locked rotor time	· 41s (cold) 23s (hot)		

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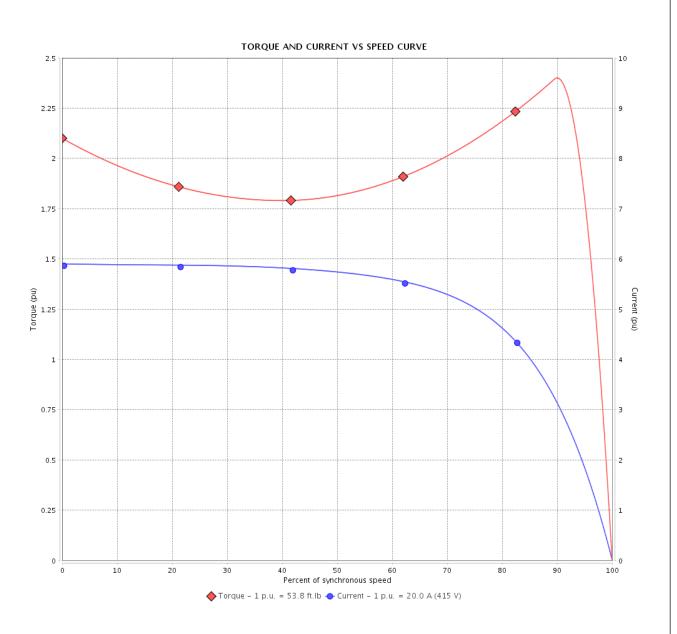
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01518ST3QIE254T-W22

12385115



Performance : 415 V 50 Hz 4P IE2 Rated current : 20.0 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 53.8 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Locked rotor time : 37s (cold) 21s (hot)

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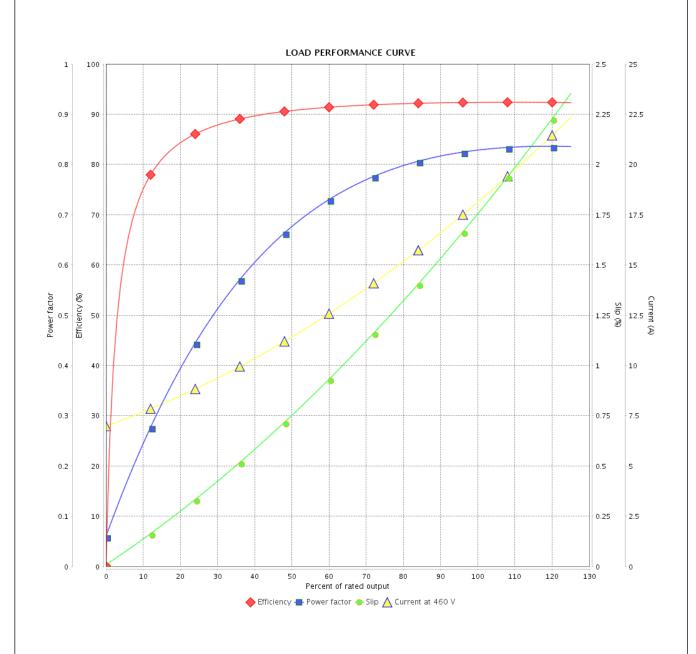


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12385115

Phase

Catalog #: 01518ST3QIE254T-W22



Performance : 460 V 60 Hz 4P : 18.0 A Rated current Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 44.6 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

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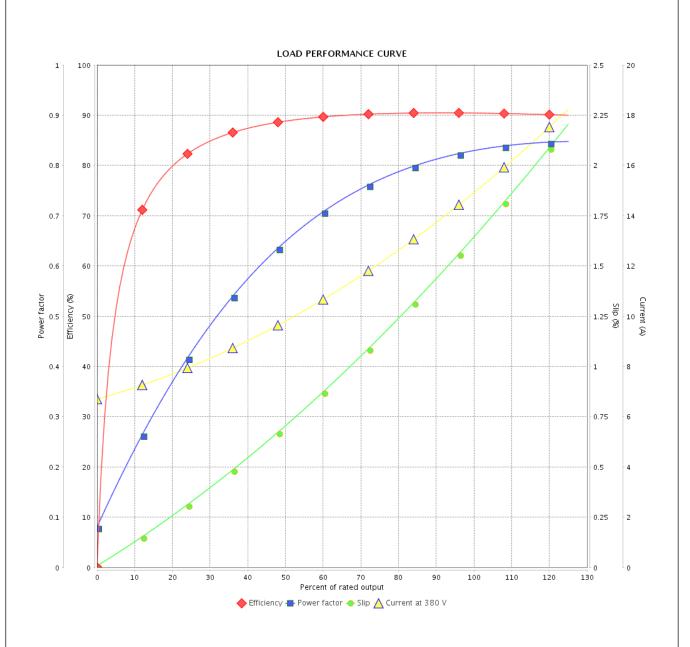
Product line : NEMA Premium Efficiency Three- Produc

Phase

Product code: 12385115

Catalog #: 01518ST3QIE254T-W22

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Performance	:	380 V 50 Hz 4P IE	3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: que :	15.2 A 7.2 35.6 ft.lb 250 % 300 % 1475 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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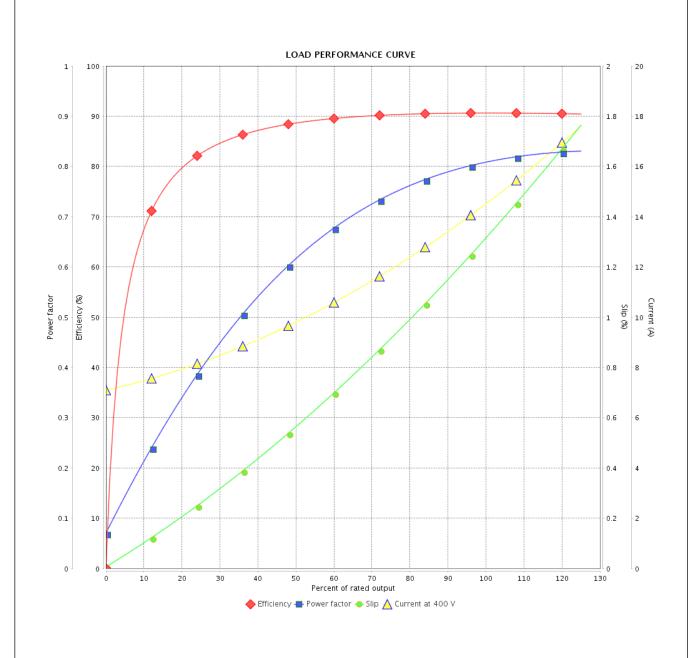
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Product line : NEMA Premium Efficiency Three- Product code : 12385115

Phase

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.8 A : 7.8 : 35.5 ft.lb : 280 % : 340 % : 1480 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class ctor	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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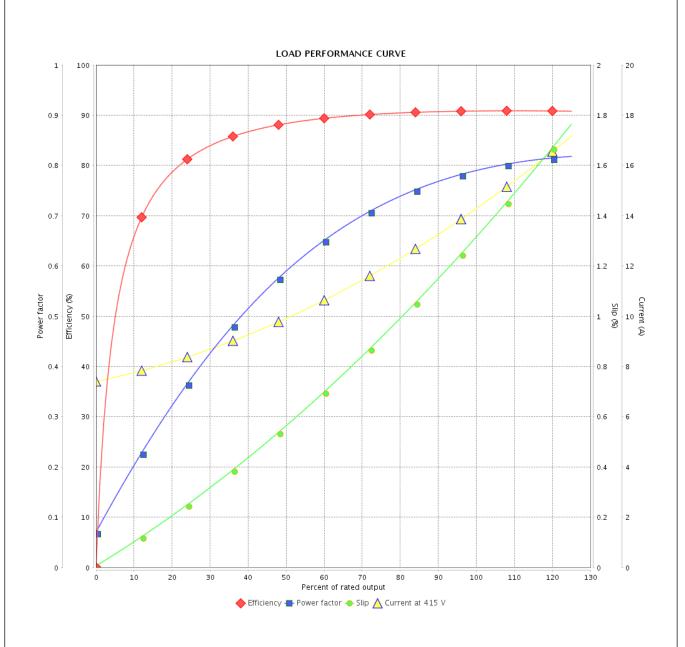
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Phase

Product code: 12385115

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Df	. 445 V 50 H- 4D IFO	·				
Performance	: 415 V 50 Hz 4P IE3	1				
Rated current LRC	: 14.5 A : 8.3	Moment of inertia (J) Duty cycle		: 2.62 sq.ft.lb : Cont.(S1)		
Rated torque Locked rotor torque Breakdown torque	: 35.5 ft.lb : 310 % : 370 %	Insulation class Service factor Temperature rise		Service factor : 1.25		
Rated speed	: 1480 rpm	Design		: B		
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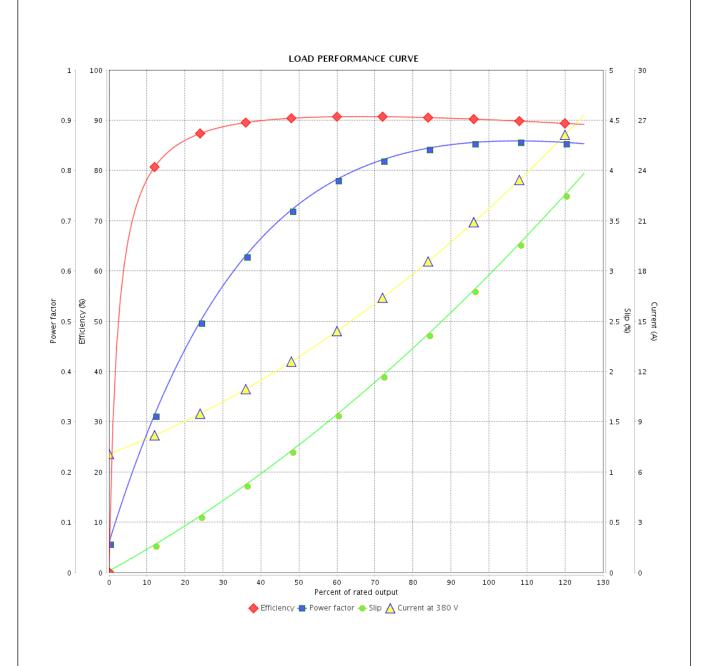
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12385115

Phase

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Rated current	: 21.5 A	Moment of inertia (J)		: 2.62 sq.ft.lb	
LRC	: 4.9	Duty cycle		: Cont.(S1)	
Rated torque	: 54.1 ft.lb	Insulation class		: F	
Locked rotor torque	: 160 %	Service factor		: 1.00	
Breakdown torque	: 200 %	Temperature rise		: 80 K	
Rated speed	: 1455 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage



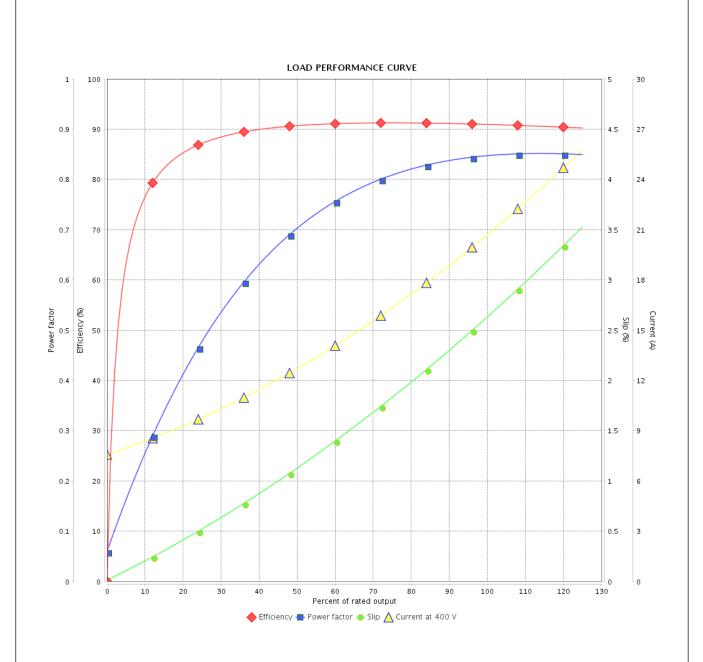
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01518ST3QIE254T-W22

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Performance	: 4	00 V 50 Hz 4P IE2				
Rated current	: 2	0.5 A Moment of		of inertia (J)	: 2.62 sq.ft.lb	
LRC	: 5	.4	Duty cycle	е	: Cont.(S1)	
Rated torque	: 5	4.0 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	00 %	Service fa	actor	: 1.00	
Breakdown torqu	e : 2	20 %	Temperature rise		: 80 K	
Rated speed	: 1	460 rpm	Design		: B	
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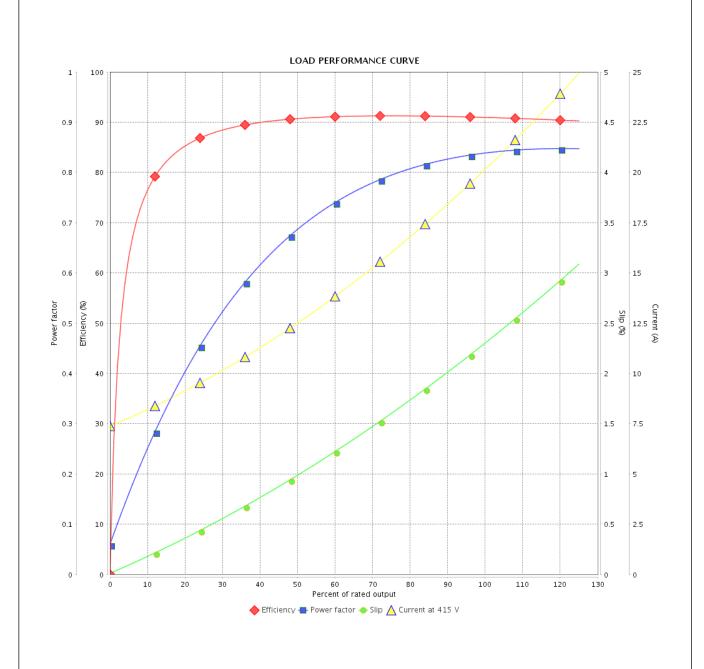


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12385115

Phase

Catalog #: 01518ST3QIE254T-W22



Performance	:	415 V 50 Hz 4P IE2				
Rated current	:	20.0 A	Moment o	f inertia (J)	: 2.62 sq.ft.lb	
LRC	:	5.9	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	53.8 ft.lb	Insulation	class	:F	
Locked rotor torque	e ::	210 %	Service fa	ctor	: 1.00	
Breakdown torque	::	240 %	Temperature rise		: 80 K	
Rated speed	:	1465 rpm	Design		: B	
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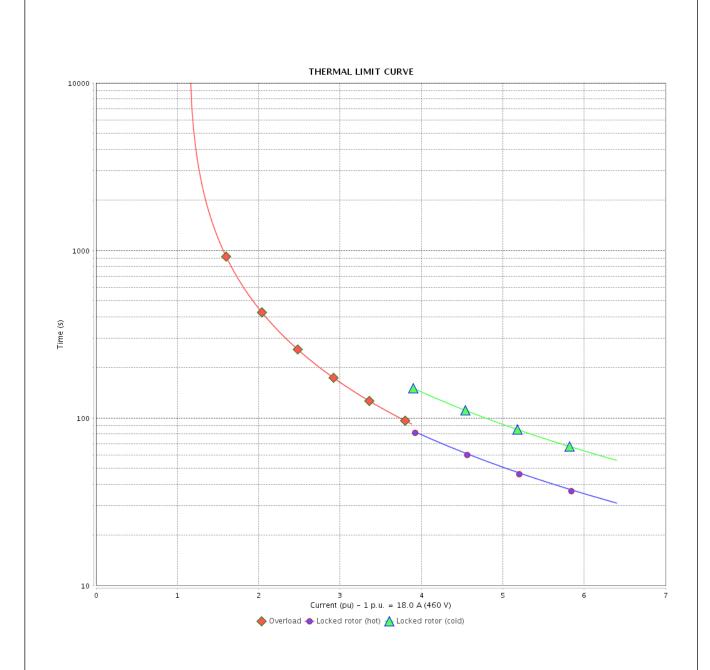


Customer	:					
Product line		NEMA Premium Efficien hase		Product code : Catalog # :	12385115 01518ST3QIE	E254T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 18 : 6. : 44 : 22 : 26	60 V 60 Hz 4P 3.0 A 4 4.6 ft.lb 20 % 60 % 770 rpm	Moment o Duty cycle Insulation Service fa Temperati Design	class ctor	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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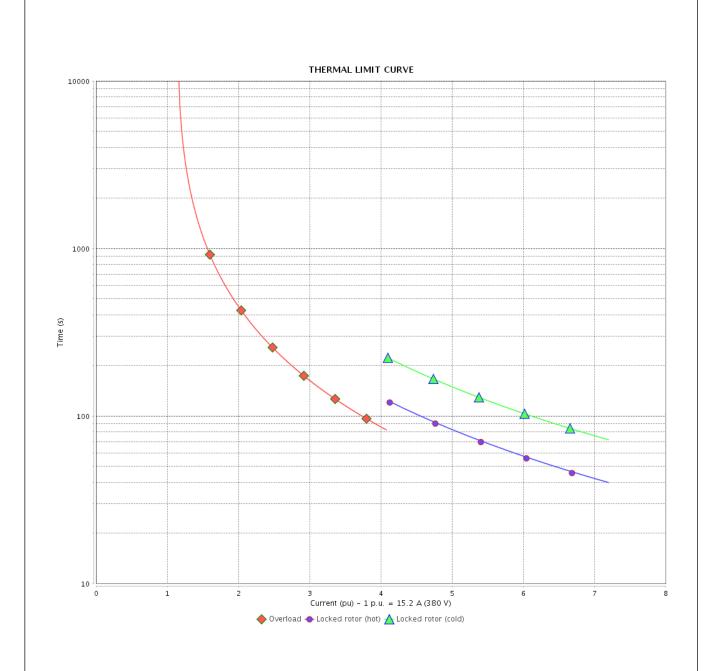


Customer	:					
Product line		NEMA Premium Efficiency hase	Three-	Product code :	12385115	
	' '	nusc		Catalog # :	01518ST3QIE	254T-W22
Performance		80 V 50 Hz 4P IE3				
Rated current LRC	: 15 : 7.	5.2 A 2	Moment o Duty cycle	f inertia (J)	: 2.62 sq.ft.lb : Cont.(S1)	
Rated torque	: 35	5.6 ft.lb 50 %	Insulation	class	: F : 1.25	
Locked rotor torque Breakdown torque	e : 30	00 %	Service fa Temperatu		: 80 K	
Rated speed		475 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summani		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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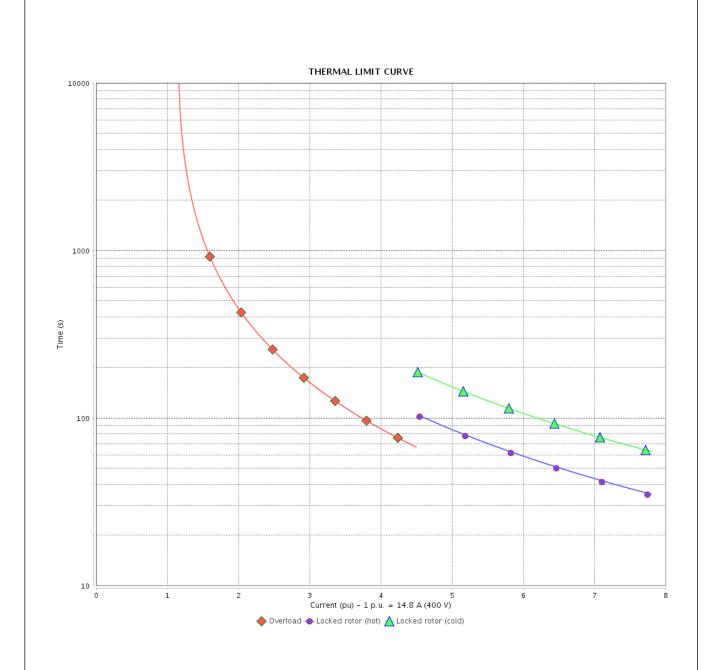


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	12385115	
			Catalog # :	01518ST3QIE	:2541-W22
Performance	: 400 V 50 Hz 4P IE3				
Rated current	: 14.8 A	Moment o	f inertia (J)	: 2.62 sq.ft.lb	
LRC	: 7.8	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque Locked rotor torque	: 35.5 ft.lb : 280 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 340 %	Temperatu		: 80 K	
Rated speed	: 1480 rpm	Design		: B	
Heating constant					
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

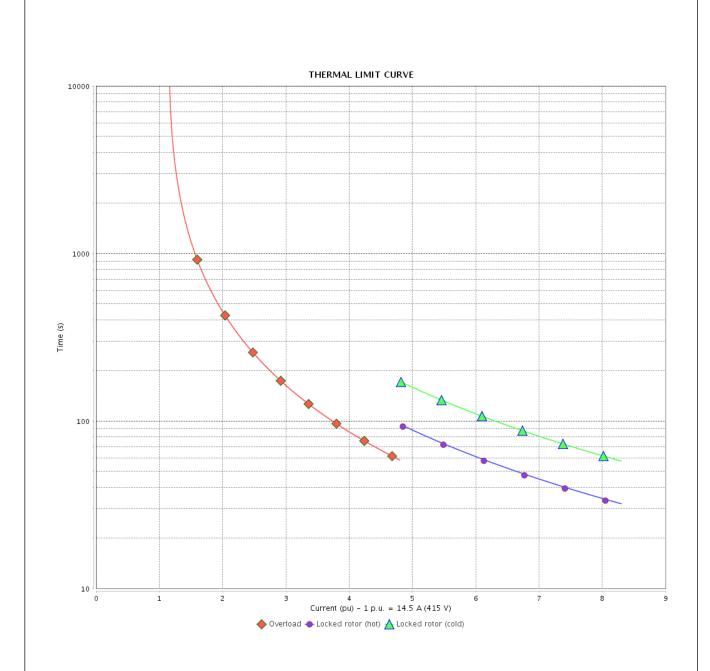


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	12385115 01518ST3QIE	:254T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 14 : 8. : 38 e : 37 : 37	5.5 ft.lb 10 % 70 %	Duty cycle Insulation Service far Temperatu	class ctor	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K	
Rated speed Heating constant Cooling constant Rev.	: 14	480 rpm Changes Summary	Design	Performed	: B	Date
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### Three Phase Induction Motor - Squirrel Cage

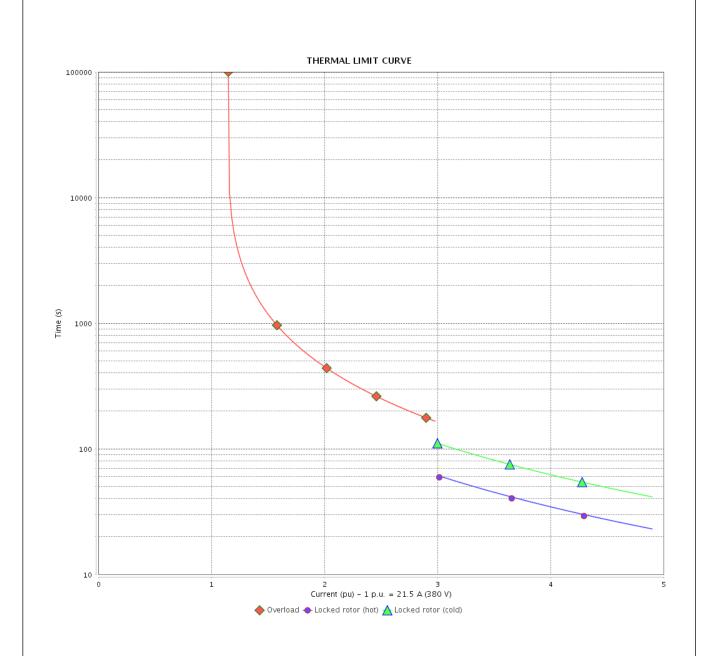


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	12385115 01518ST3QIE	E254T-W22
Performance Rated current		30 V 50 Hz 4P IE2 1.5 A	Moment of	f inertia (J)	: 2.62 sq.ft.lb	
LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4. : 54 : 16 : 20		Duty cycle Insulation Service far Temperatu Design	class ctor	: Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		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

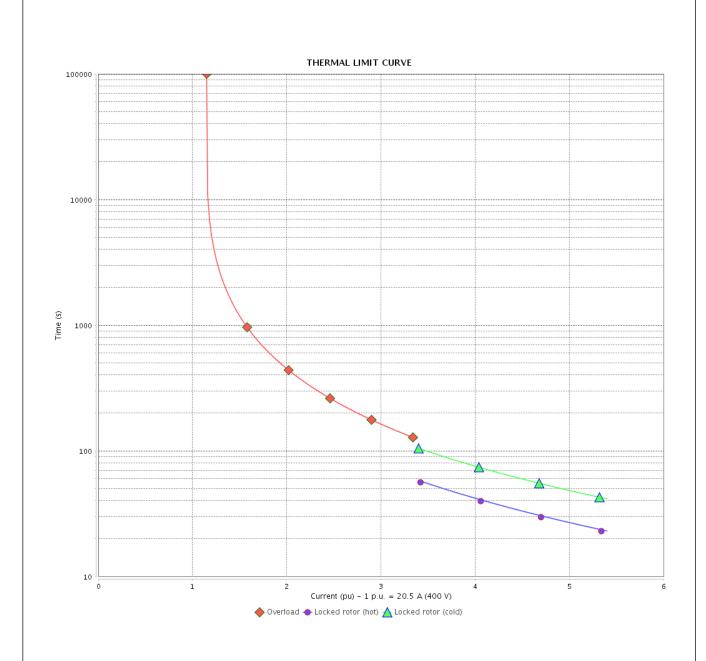


Customer	:				
Product line	: NEMA P Phase	remium Efficiency Three	- Product code : Catalog # :	12385115 01518ST3QII	E254T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 400 V 50 : 20.5 A : 5.4 : 54.0 ft.lb : 200 % : 220 % : 1460 rpm	Mon Duty Insu Serv Tem	nent of inertia (J) v cycle lation class vice factor perature rise	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.	Change	es Summary	Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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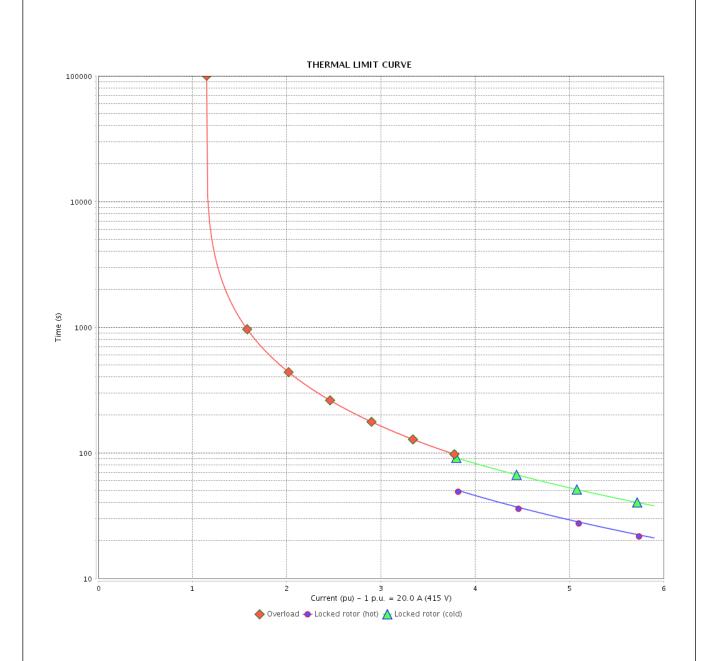


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	12385115	
		Tildoo		Catalog # :	01518ST3QIE	254T-W22
Performance	:	415 V 50 Hz 4P IE2				
Rated current LRC		20.0 A 5.9	Moment of Duty cycle	of inertia (J)	: 2.62 sq.ft.lb : Cont.(S1)	
Rated torque	:	53.8 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		210 % 240 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		1465 rpm	Design	uic lisc	: B	
Heating constant						
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : NEMA Premium Efficiency Three- Product code :

Phase

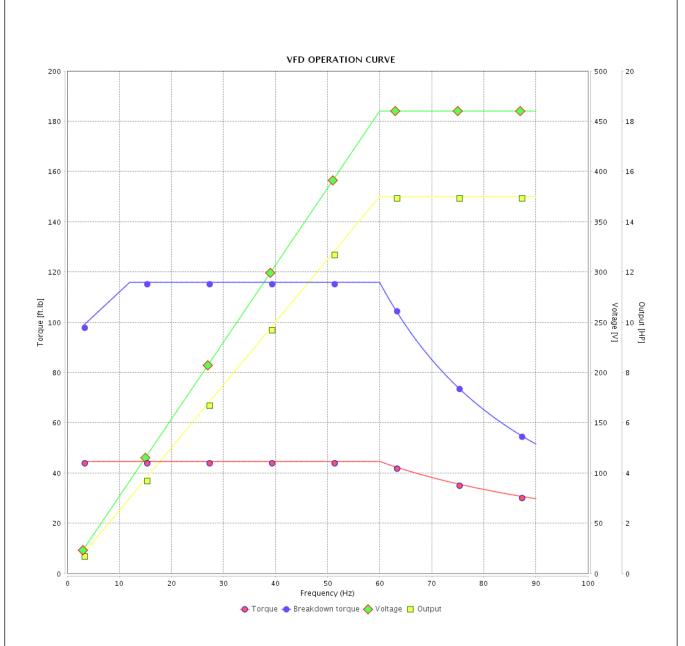
Catalog # : 01518ST3QIE254T-W22

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Performance : 460 V 60 Hz 4P : 18.0 A Rated current Moment of inertia (J) : 2.62 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.4 : 44.6 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

### Three Phase Induction Motor - Squirrel Cage

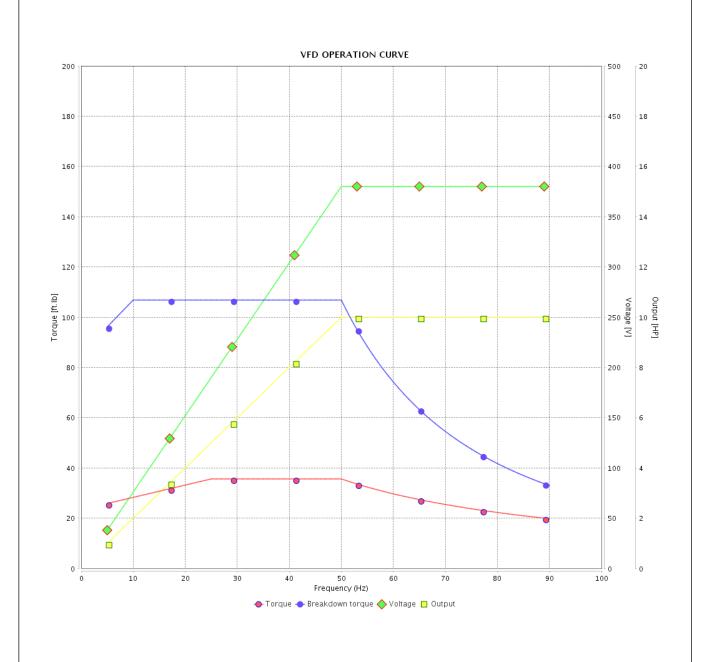


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12385115

Phase

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Performance	: 38	80 V 50 Hz 4P IE3				
Rated current		5.2 A Moment of in		` '	: 2.62 sq.ft.lb	
LRC	: 7.	2	Duty cycle	9	: Cont.(S1)	
Rated torque	: 35	5.6 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 25	50 %	Service fa	actor	: 1.25	
Breakdown torque	wn torque : 300 % Temperature rise		ure rise	: 80 K		
Rated speed	: 14	175 rpm	n Design		: B	
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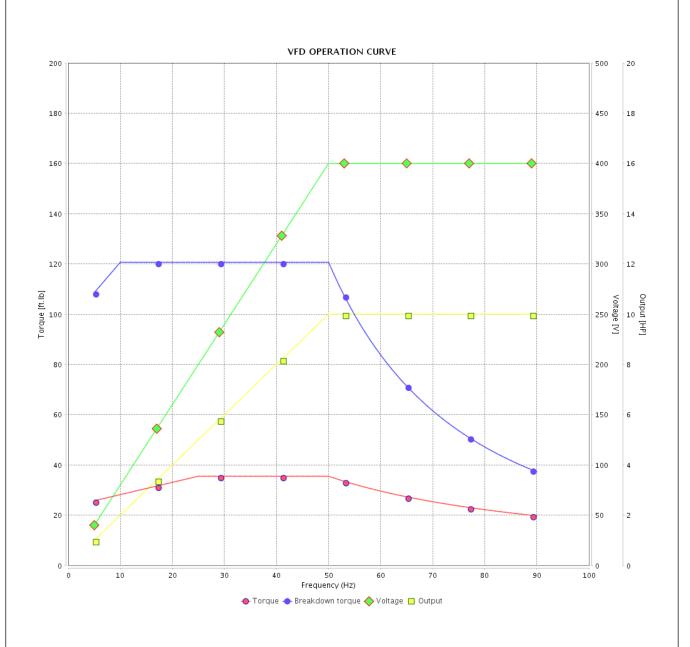
Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 12385115

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Performance : 400 V 50 Hz 4P IE3 : 14.8 A Rated current Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 7.8 Duty cycle : Cont.(S1) Insulation class : 35.5 ft.lb : F Rated torque Locked rotor torque : 280 % Service factor : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

### Three Phase Induction Motor - Squirrel Cage

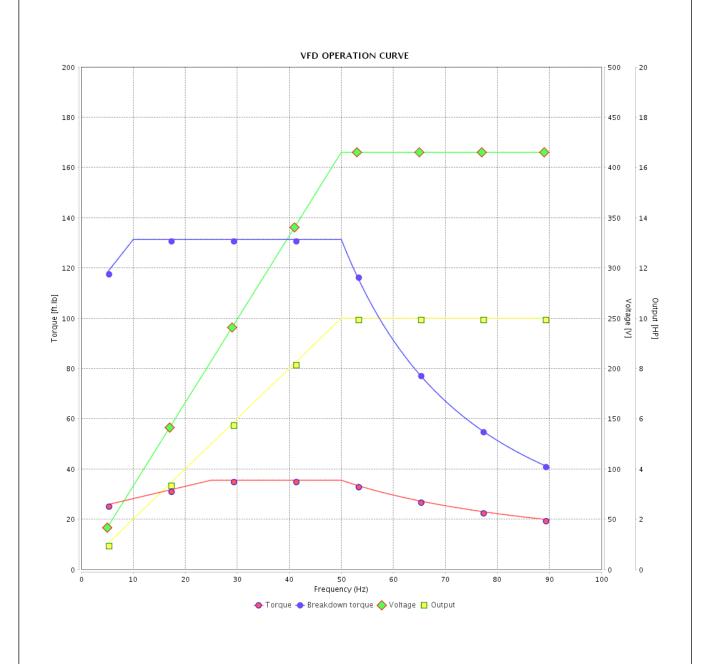


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12385115

Phase

Catalog #: 01518ST3QIE254T-W22



Performance	:	: 415 V 50 Hz 4P IE3				
Rated current	:	14.5 A	Moment o	f inertia (J)	: 2.62 sq.ft.lb	
LRC	:	8.3	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	35.5 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	310 %	Service fa	ctor	: 1.25	
Breakdown torque	:	370 %	Temperati	Temperature rise		
Rated speed	:	1480 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Produ

Phase

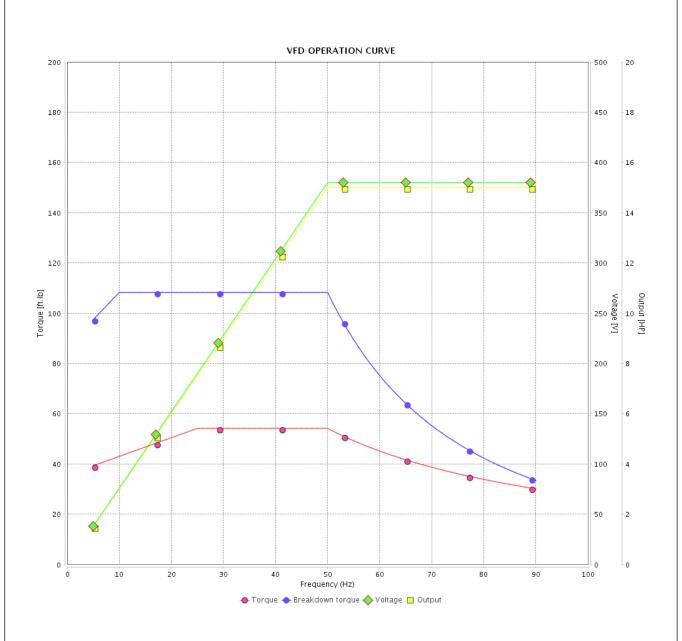
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Performance		: 380 V 50 Hz 4P IE	<b>E</b> 2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ie	: 21.5 A : 4.9 : 54.1 ft.lb : 160 % : 200 % : 1455 rpm	Duty cyc Insulatio Service	n class	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage



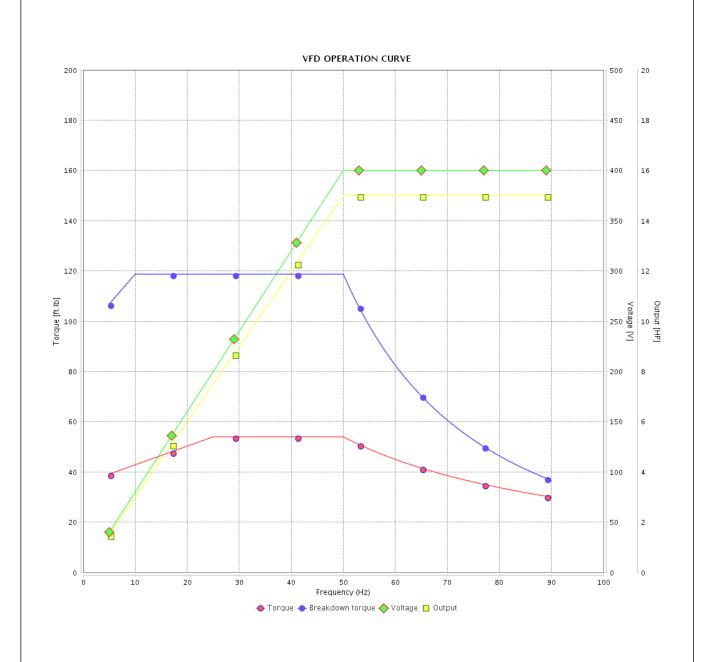
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12385115

Phase

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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.5 A : 5.4 : 54.0 ft.lb : 200 % : 220 % : 1460 rpm	Moment of inertia (J) : 2.62 sq.ft.ll Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		: F : 1.00 : 80 K	
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Product line : NEMA Premium Efficiency Three-

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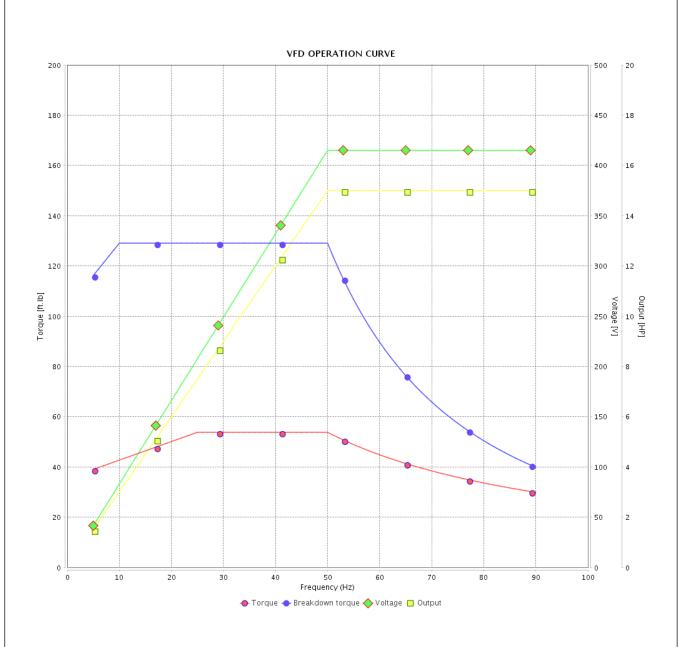
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Performance	:	: 415 V 50 Hz 4P IE	<u> </u>			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que :	: 20.0 A : 5.9 : 53.8 ft.lb : 210 % : 240 % : 1465 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	ı class actor	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date	
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