DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12385114

Catalog #: 01518ST3QIE254TC-W22

Frame : 254/6TC Cooling method : IC411 - TEFC

Insulation class 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	Altitude : 1000 m.a.s.l. Approx. weight ³ : 299 lb							
Protection degree	е	: IP55		Momer	nt of inertia (J)	: 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]]	7.00	6.70	7.10	7.40	7.10	7.60	7.40
Rated speed [RPM	1]	1768	1475	1480	1480	1455	1460	1465
Slip [%]		1.78	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 [%]	240	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)	41s (cold)	41s (cold)	37s (cold)
		31s (hot)	40s (hot)	35s (hot)	32s (hot)	23s (hot)	23s (hot)	21s (hot)
Noise level ²		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%							
Efficiency (9/)	50%	91.0	88.8	88.6	88.3	91.0	91.0	91.0
Efficiency (%)	75%	91.7	90.3	90.3	90.3	90.2	91.0	91.0
	100%	92.4	90.4	90.6	90.8	90.2	91.0	91.0
	25%							
Dower Foster	50%	0.68	0.65	0.62	0.59	0.74	0.71	0.69
Power Factor	75%	0.78	0.77	0.74	0.72	0.82	0.80	0.79
	100%	0.83	0.83	0.81	0.79	0.86	0.85	0.84

Non drive end Drive end Foundation loads 6309 C3 6209 C3

Bearing type Max. traction : 469 lb Sealing Inpro/Seal Inpro/Seal : 769 lb Max. compression Lubrication interval 20000 h 20000 h

Lubricant amount 13 g 9 g Lubricant type Mobil Polyrex EM

Notes

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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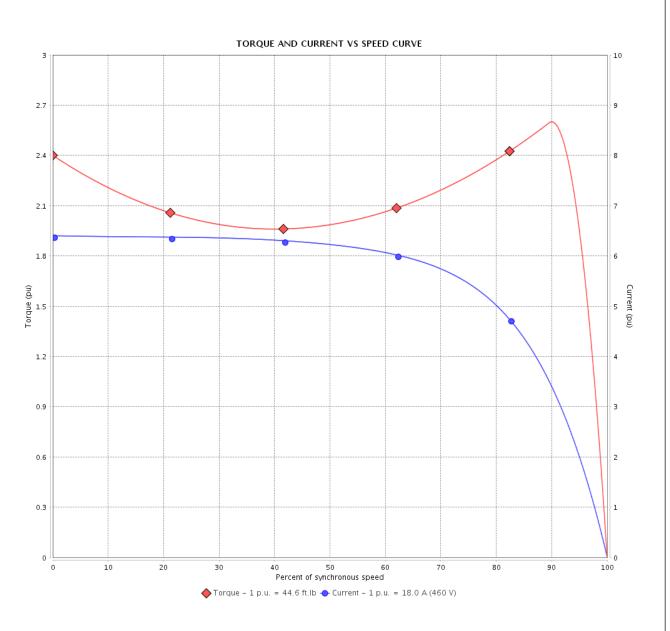


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12385114

Phase

Catalog #: 01518ST3QIE254TC-W22



Performance	: 460 V 60 Hz 4P		
Rated current	: 18.0 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 44.6 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1768 rpm	Design	: B
Locked rotor time	: 55s (cold) 31s (hot)	1	

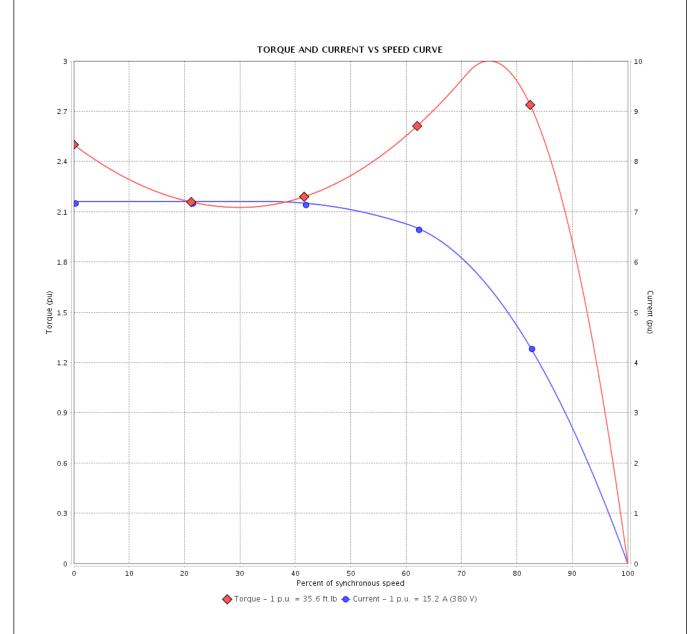
Locked rotor time : 55s (cold) 31s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 12385114 Catalog #: 01518ST3QIE254TC-W22



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) : 35.6 ft.lb Insulation class : F Rated torque : 250 % : 1.25 Locked rotor torque Service factor Breakdown torque : 300 % Temperature rise : 80 K : B Rated speed : 1475 rpm Design Locked rotor time : 72s (cold) 40s (hot)

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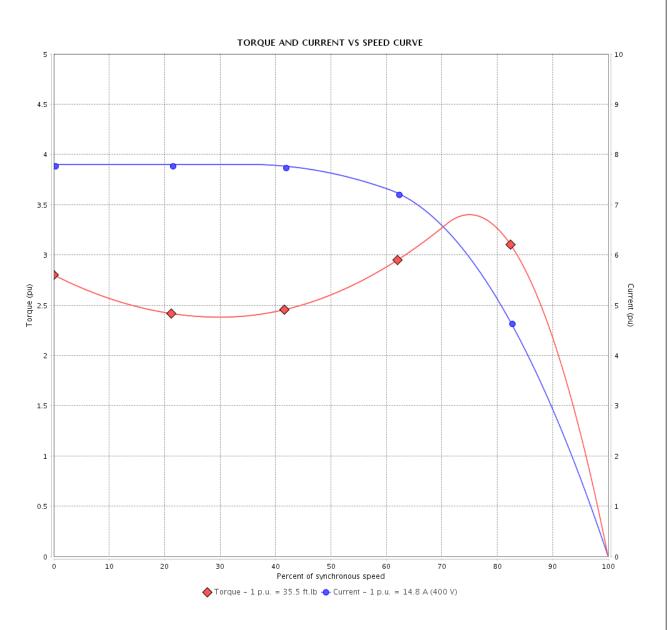


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12385114

Phase

Catalog #: 01518ST3QIE254TC-W22



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 inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : 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: 12385114 Catalog #: 01518ST3QIE254TC-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) : 35.5 ft.lb Insulation class : F Rated torque : 310 % : 1.25 Locked rotor torque Service factor : 370 % Breakdown torque Temperature rise : 80 K : B Rated speed : 1480 rpm Design

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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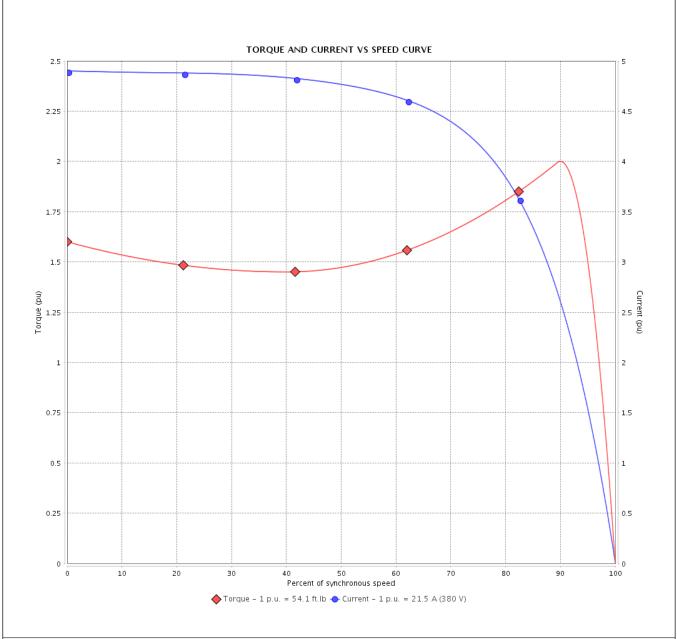
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12385114

Catalog #: 01518ST3QIE254TC-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 : 41s (cold) 23s (hot)

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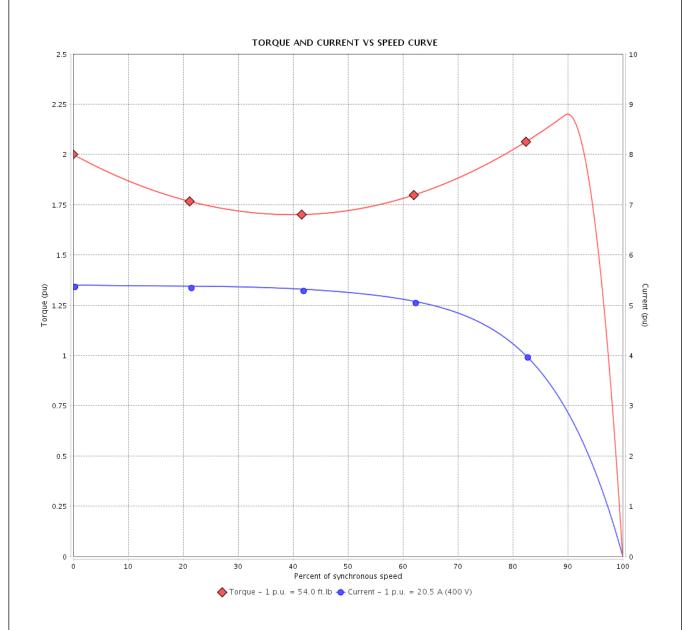
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 12385114

Catalog #: 01518ST3QIE254TC-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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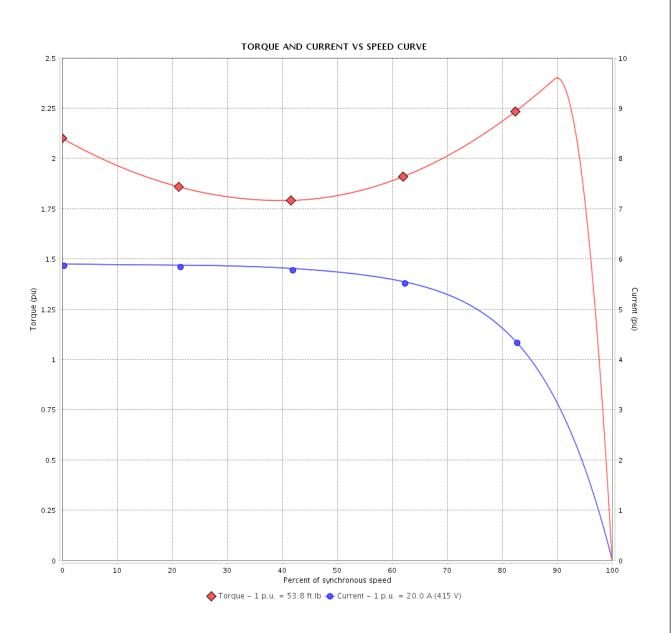
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12385114

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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 Service factor Locked rotor torque : 210 % : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B : 37s (cold) 21s (hot) Locked rotor time

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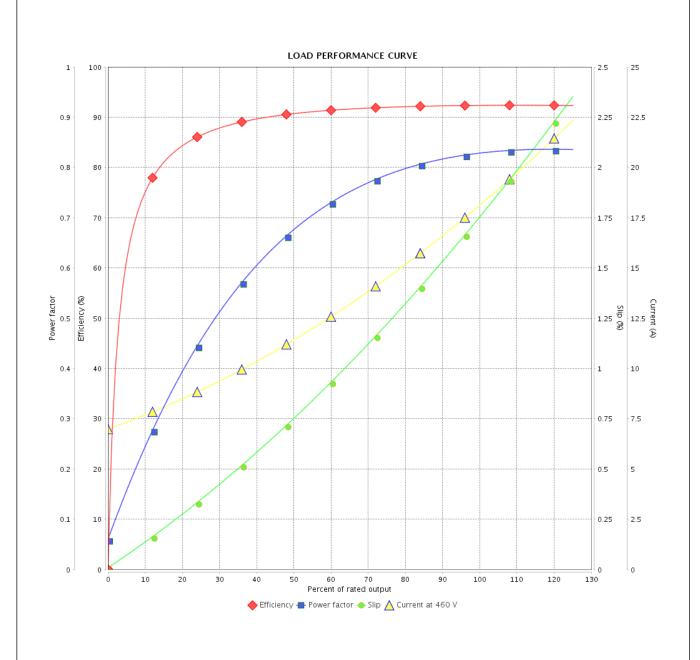
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Product line : NEMA Premium Efficiency Three- Product code : 12385114

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Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 18.0 A : 6.4 : 44.6 ft.lb : 240 % : 260 % : 1768 rpm	Moment of inert Duty cycle Insulation class Service factor Temperature ris Design	3	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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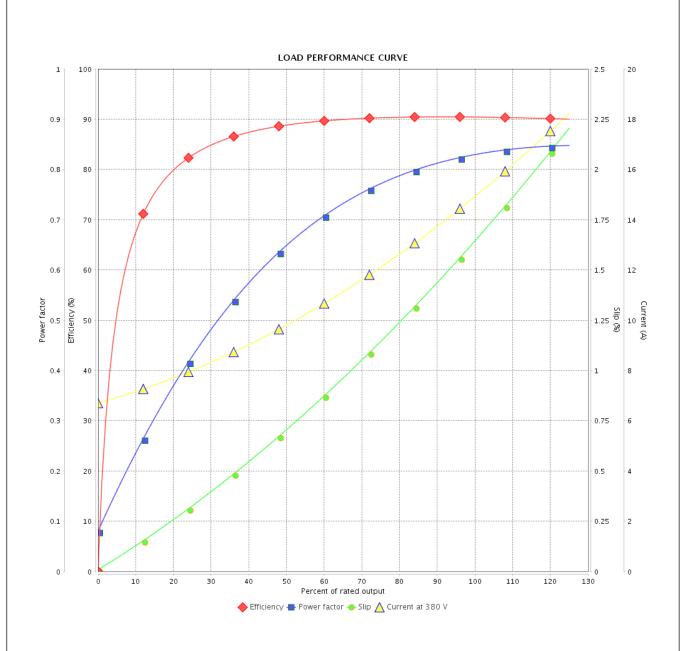
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Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.2 A : 7.2 : 35.6 ft.lb : 250 % : 300 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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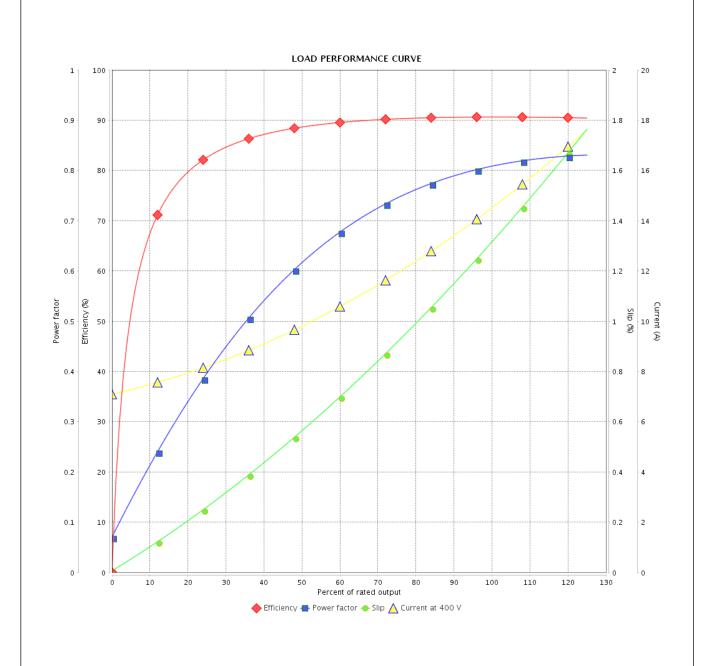


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Performance	: 400 V 50 Hz 4P IE3					
Rated current	: 1	4.8 A	Moment o	f inertia (J)	: 2.62 sq.ft.lb	
LRC	: 7	7.8	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	35.5 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	280 %	Service fa	ctor	: 1.25	
Breakdown torque	: 3	340 %	Temperati	Temperature rise : 80		
Rated speed	: 1	480 rpm	om Design		: B	
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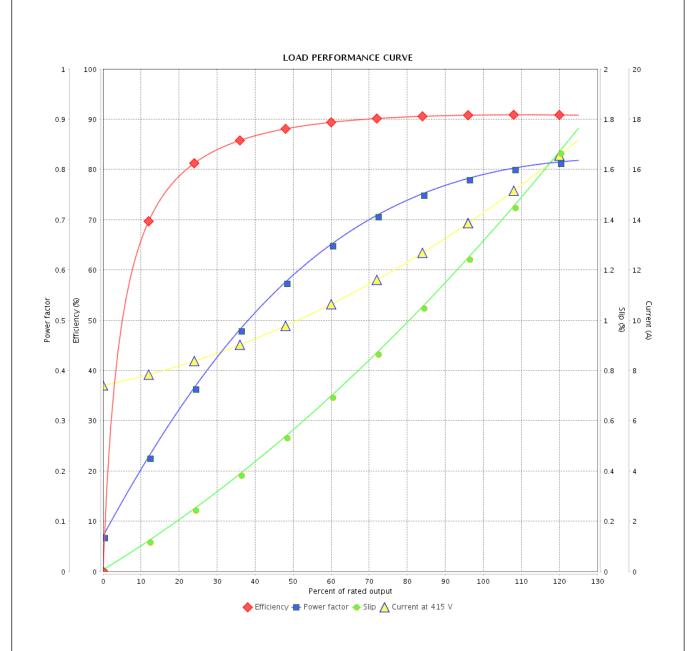
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Phase

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Performance	: 4	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 3: que : 3 ue : 3	4.5 A .3 5.5 ft.lb 10 % 70 % 480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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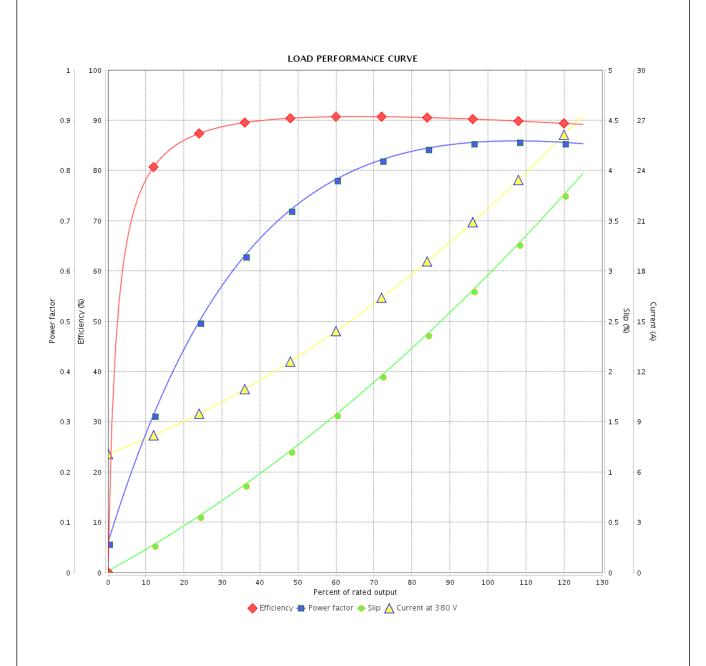


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Product line : NEMA Premium Efficiency Three- Product code : 12385114

Phase

Catalog #: 01518ST3QIE254TC-W22



Performance : 38		380 V 50 Hz 4P IE2					
Rated current	:	21.5 A	Moment o	f 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 fa	ctor	: 1.00	: 1.00	
Breakdown torque	::	200 %	Temperati	Temperature rise		: 80 K	
Rated speed	:	1455 rpm	5 rpm Design		: B		
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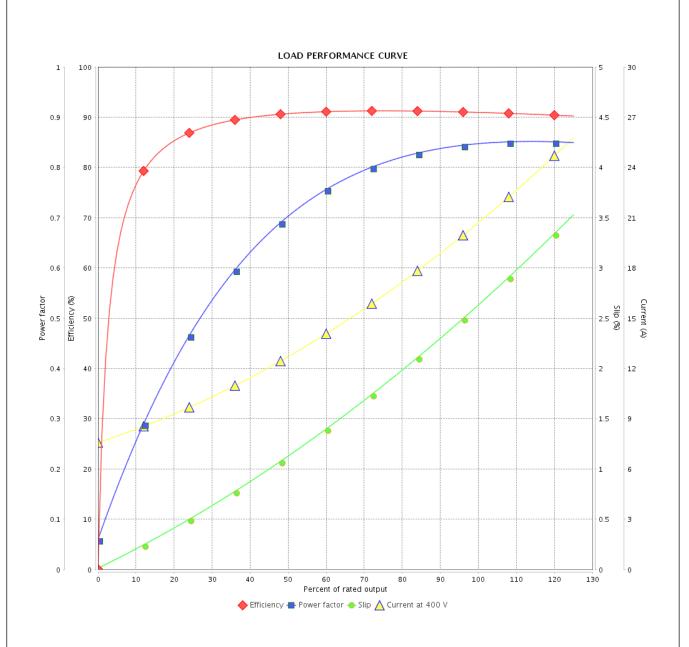
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Phase

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12385114



Performance	: •	400 V 50 Hz 4P IE2	2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ::	20.5 A 5.4 54.0 ft.lb 200 % 220 % 1460 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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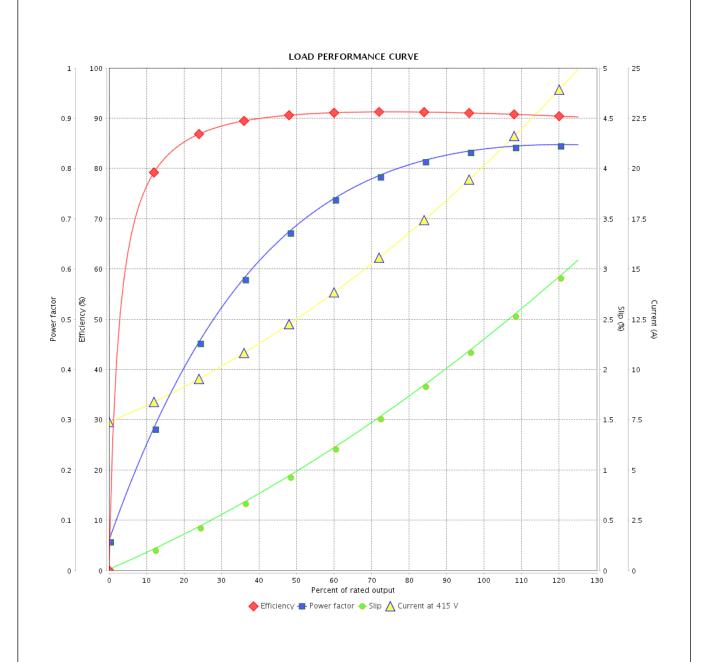


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Product line : NEMA Premium Efficiency Three- Product code : 12385114

Phase

Catalog #: 01518ST3QIE254TC-W22



Performance	: 4	: 415 V 50 Hz 4P IE2				
Rated current	ted current : 20.0 A		Moment o	f inertia (J)	: 2.62 sq.ft.lb	
LRC	: 5	5.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	3.8 ft.lb	Insulation	class	: F	
Locked rotor torque		210 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	240 %	Temperati	Temperature rise		
Rated speed	: 1	465 rpm	Design		: B	
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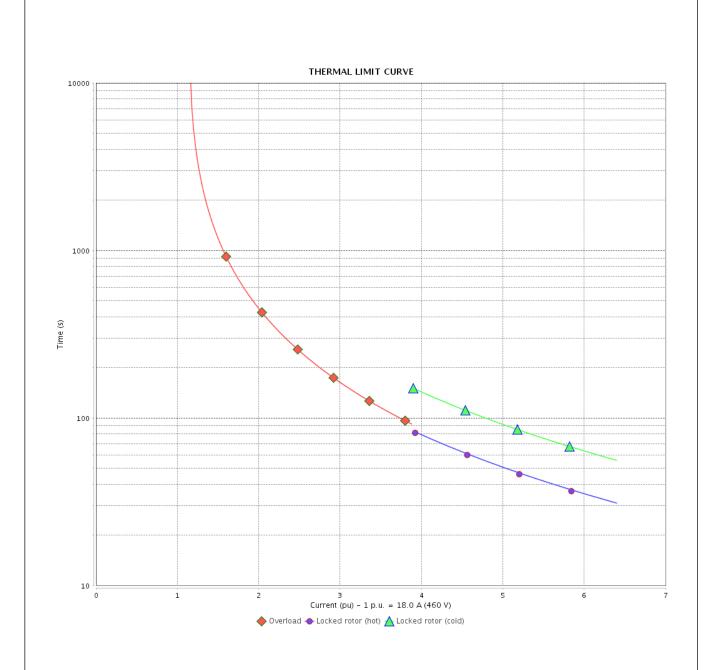


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	12385114	
				Catalog # :	01518ST3QIE	254TC-W22
Performance		: 460 V 60 Hz 4P	T			
Rated current LRC		: 18.0 A : 6.4	Moment of Duty cycle	of inertia (J) e	: 2.62 sq.ft.lb : Cont.(S1)	
Rated torque		: 44.6 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 240 % : 260 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 1768 rpm	Design	410 1100	: B	
Heating constant	t					
Cooling constant						
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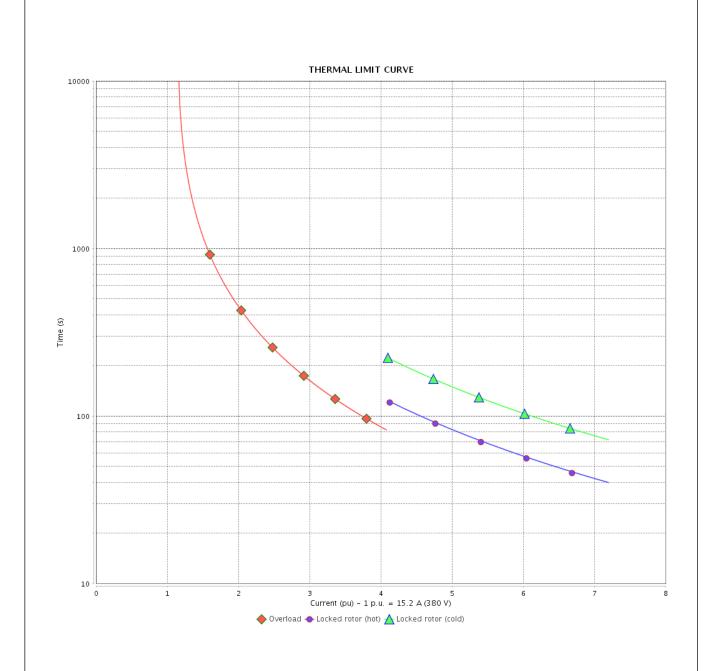


Customer		:				
Product line		: NEMA Premium Efficiency ⁻ Phase		Product code :	12385114 01518ST3QIE	254TC-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: : : :ue :e :	380 V 50 Hz 4P IE3 15.2 A 7.2 35.6 ft.lb 250 % 300 % 1475 rpm	Moment or Duty cycle Insulation Service fa Temperatu 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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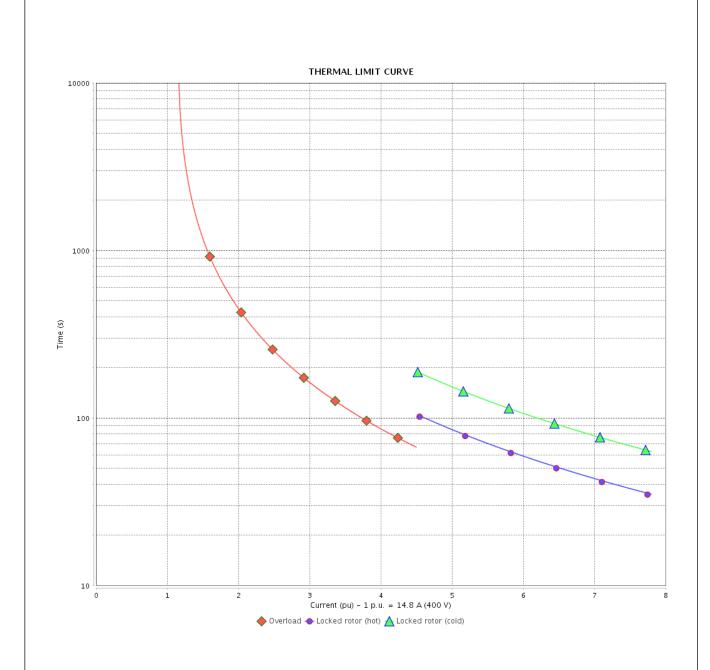


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Product line		: NEMA Premium Efficiency	Three-	Product code :	12385114	
		Phase		Catalog # :	01518ST3QIE	754TC W22
				Catalog # .	01310313Q1E	.25410-7722
Performance		: 400 V 50 Hz 4P IE3				
Rated current		: 14.8 A	Moment of	of inertia (J)	: 2.62 sq.ft.lb	
LRC Rated torque		: 7.8 : 35.5 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 280 %	Service fa	actor	: 1.25	
Breakdown torqu Rated speed		: 340 % : 1480 rpm	Temperat Design	ure rise	: 80 K : B	
		. т тоо трит	Design			
Heating constant Cooling constant						
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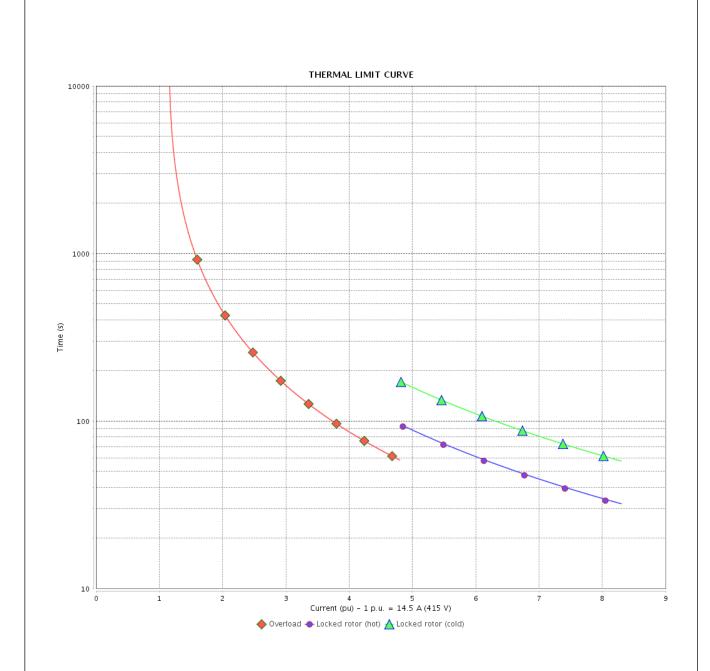


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Product line		NEMA Premium Efficiency nase		Product code :	12385114 01518ST3QIE	254TC-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14 : 8. : 35 : 37 : 37	15 V 50 Hz 4P IE3 4.5 A 3 5.5 ft.lb 10 % 70 % 480 rpm	Moment o 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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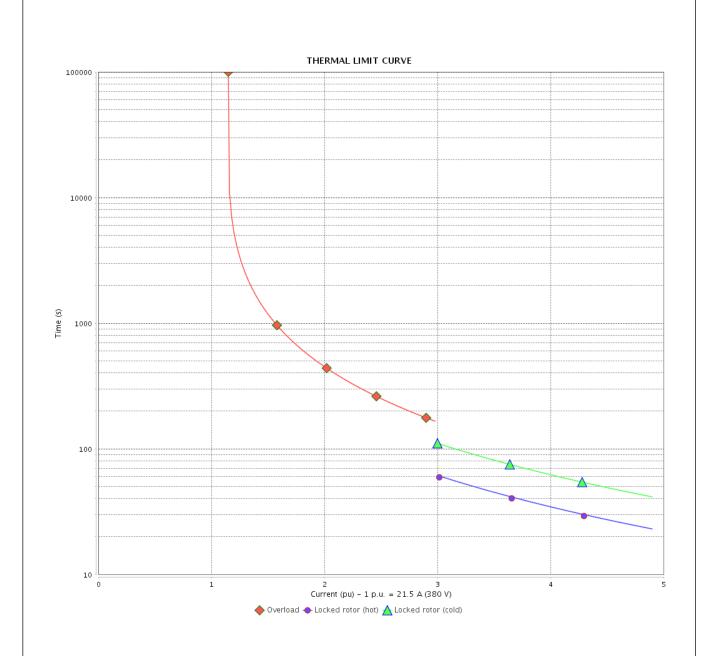


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Product line	: NEMA Premium Efficiency	Three-	Product code :	12385114	
	Phase		Catalog # :	01518ST3QIE	-054TC W00
			Catalog # .	01310313Q1	-2041 G-VV22
Performance	: 380 V 50 Hz 4P IE2				
Rated current	: 21.5 A	Moment o	f inertia (J)	: 2.62 sq.ft.lb	
LRC	: 4.9	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torque	: 54.1 ft.lb : 160 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 200 %	Temperati		: 80 K	
Rated speed	: 1455 rpm	Design		: B	
Heating constant					
Cooling constant					
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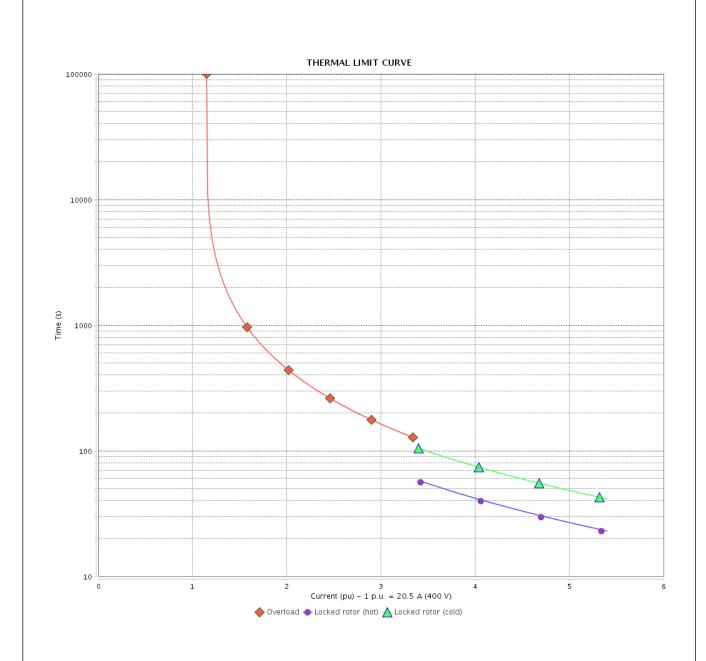


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	12385114 01518ST3QIE	=254TC-W22
Performance	: 400 V 50 Hz 4P IE2				
Rated current	: 20.5 A	Moment of	f inertia (J)	: 2.62 sq.ft.lb	
LRC	: 5.4	Duty cycle	!	: Cont.(S1)	
Rated torque Locked rotor torque	: 54.0 ft.lb : 200 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 220 % : 220 %	Temperatu		: 80 K	
Rated speed	: 1460 rpm	Design		: B	
Heating constant					
Cooling constant					
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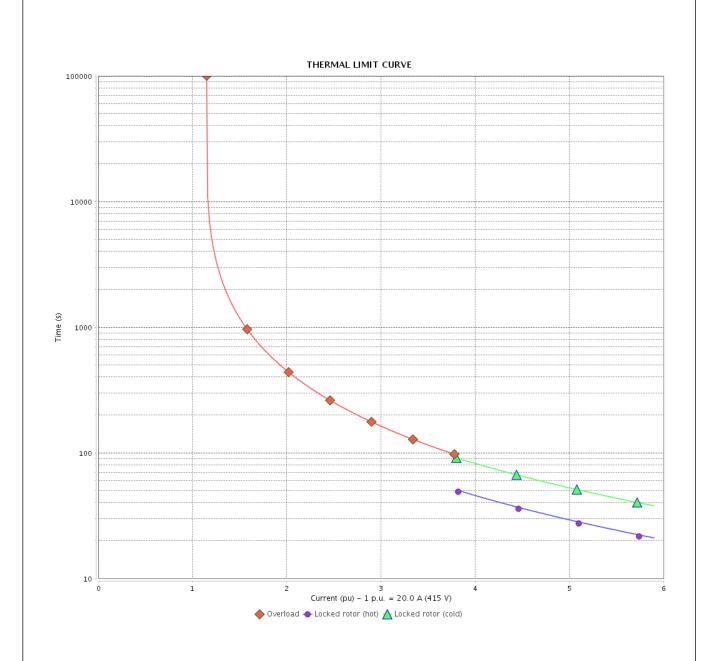


Product line : NEMA Premium Efficiency Three- Product code : 12385114 Phase Catalog #: 01518ST3QIE254TC-W22 Performance : 415 V 50 Hz 4P IE2	Customer	:					
Performance : 415 V 50 Hz 4P IE2 Rated current : 20.0 A		·					
Performance : 415 V 50 Hz 4P IE2 Rated current : 20.0 A	Product line			Three- I	Product code :	12385114	
Rated current : 20.0 A		Г	idse	(Catalog # :	01518ST3QIE	254TC-W22
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Rated current : 20.0 A							
LRC : 5.9 Duty cycle : Cont.(S1) Rated torque : 53.8 ft.lb Insulation class : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Heating constant Cooling constant	Performance	: 41	15 V 50 Hz 4P IE2				
Rated torque : 53.8 ft.lb Insulation class : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Heating constant Cooling constant	Rated current			Moment of	f inertia (J)	: 2.62 sq.ft.lb	
Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Heating constant Cooling constant				Duty cycle	class	: Cont.(S1) : F	
Rated speed : 1465 rpm Design : B Heating constant Cooling constant	Locked rotor torqu	ie : 21	10 %	Service fac	ctor	: 1.00	
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Cooling constant			· F ···				
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Three Phase Induction Motor - Squirrel Cage



Customer



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Customer :

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Product line : NEMA Premium Efficiency Three- Pr

Phase

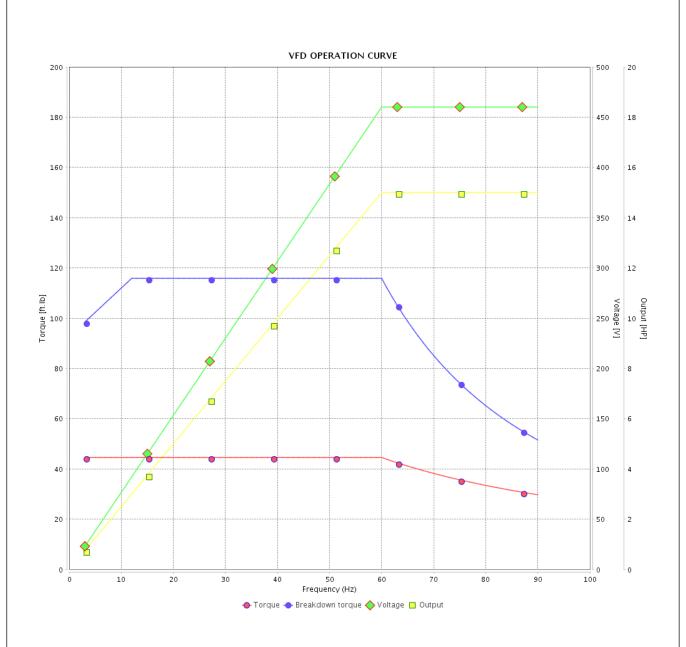
Product code: 12385114

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Revision



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 : 240 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1768 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

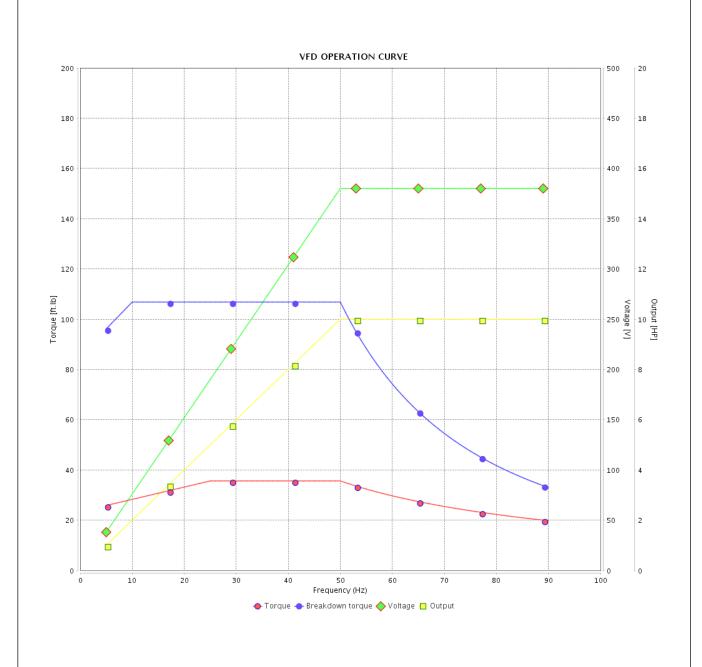


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12385114

Phase

Catalog #: 01518ST3QIE254TC-W22



Performance	: 38	80 V 50 Hz 4P IE3				
Rated current	: 1:	: 15.2 A Mo		f inertia (J)	: 2.62 sq.ft.lb	
LRC	: 7.	.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	5.6 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	50 %	Service fa	ctor	: 1.25	
Breakdown torque	: 30	00 %	Temperati	ure rise	: 80 K	
Rated speed	: 14	475 rpm	Design		: B	
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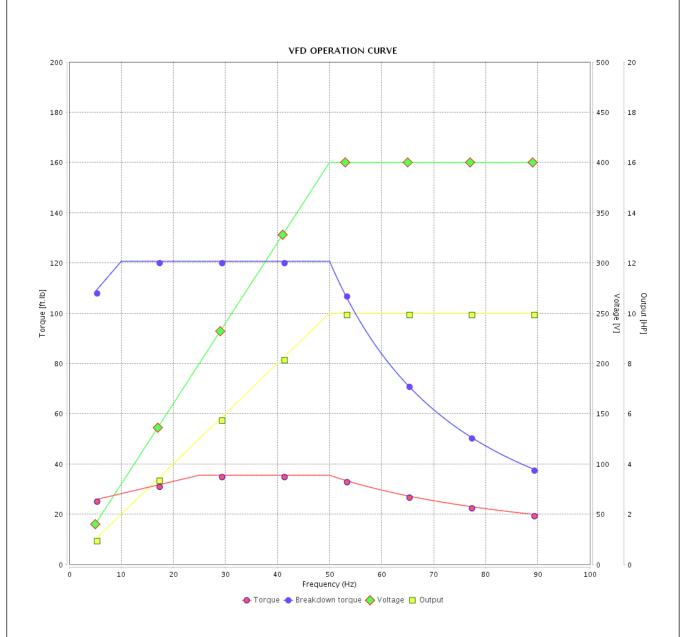
Product line : NEMA Premium Efficiency Three-

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Product code: 12385114

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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 **Changes Summary** Date Performed by Checked by Revision Page

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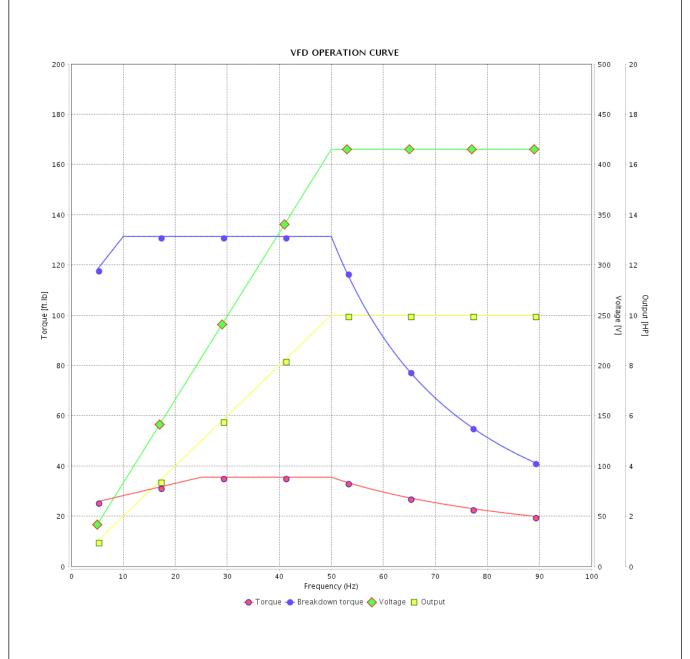


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12385114

Phase

Catalog #: 01518ST3QIE254TC-W22



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

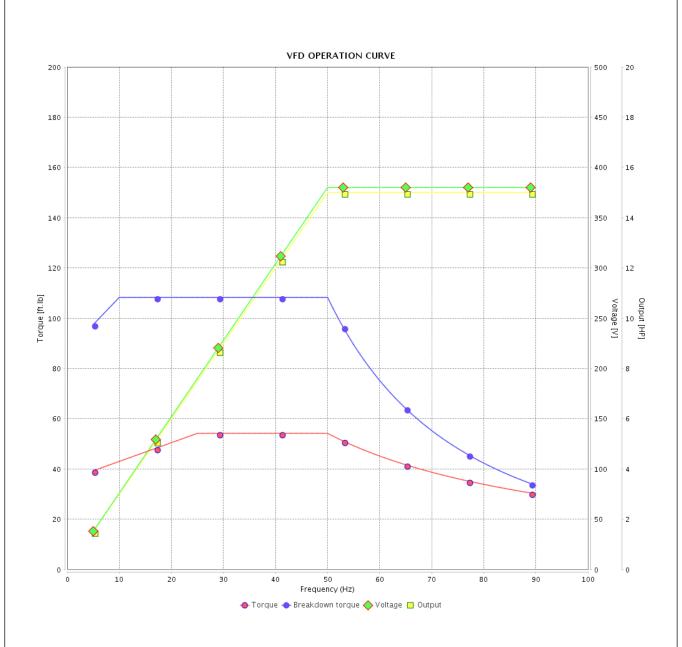
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Performance : 380 V 50 Hz 4P IE2 Rated current : 21.5 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 4.9 Duty cycle : Cont.(S1) : 54.1 ft.lb Insulation class : F Rated torque Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 200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

Three Phase Induction Motor - Squirrel Cage

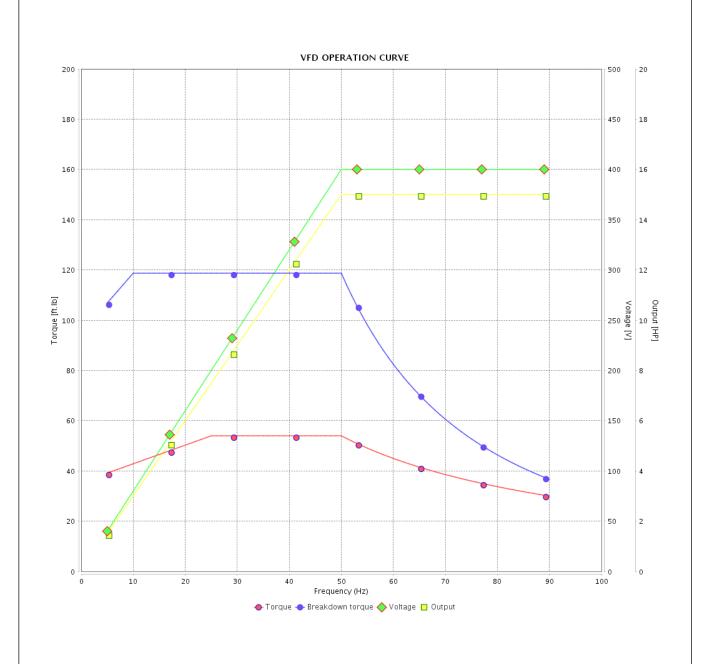


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Product line : NEMA Premium Efficiency Three- Product code : 12385114

Phase

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Performance	: 4	00 V 50 Hz 4P IE2				
Rated current	: 2	: 20.5 A Momen		f inertia (J)	: 2.62 sq.ft.lb	
LRC	: 5	.4	Duty cycle)	: Cont.(S1)	
Rated torque	: 5	4.0 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	00 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2:	20 %	0 % Temperature rise		: 80 K	
Rated speed	: 1	460 rpm	Design		: B	
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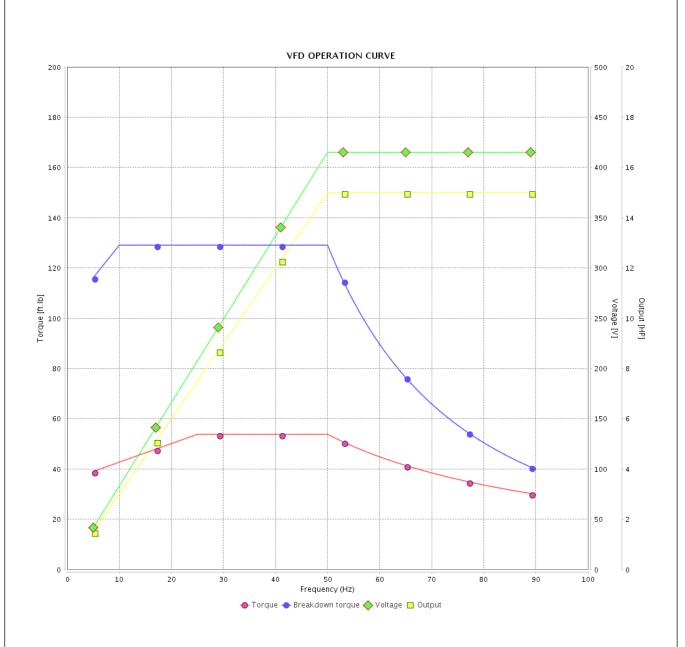
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12385114

Catalog #: 01518ST3QIE254TC-W22



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 : 53.8 ft.lb : F Rated torque Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

