DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12385188

Phase

1.94

0.77

13 g

Catalog # : 01536ST3QIE254TC-W22

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

Insulation class : F Mounting : F-1

1.83

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 : 283 lb
Protection degree : IP55 Moment of inertia (J) : 1.26 sq.ft.lb

Protection degree : IP55
Design : B

Output [HP] 15 10 10 10 15 15 Poles 2 2 2 2 2 2 2 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 380 400 380 400 415 460 415 Rated current [A] 17.2 14.0 20.7 14.5 13.7 19.6 19.1

L. R. Amperes [A] 115 98.6 105 108 101 108 113 LRC [A] 6.7x(Code | 6.8x(Code H) | 7.5x(Code J) | 7.9x(Code J) | 4.9x(Code D) | 5.5x(Code E) | 5.9x(Code F) G) No load current [A] 5.30 5.10 5.40 5.70 5.10 5.40 5.70 Rated speed [RPM] 3530 2945 2950 2955 2910 2920 2925

1.67

1.50

0.67

3.00

0.83

2.67

0.81

2.50

0.79

0.86

0.89

Rated torque [ft.lb] 22.3 17.8 17.8 17.8 27.1 27.0 26.9 Locked rotor torque [%] 220 200 229 250 170 190 210 Breakdown torque [%] 200 270 310 350 380 229 240 1.00 Service factor 1.25 1.25 1.25 1.25 1.00 1.15 80 K Temperature rise 80 K 80 K 80 K 80 K 80 K 80 K Locked rotor time 45s (cold) 55s (cold) 50s (cold) 46s (cold) 36s (cold) 36s (cold) 36s (cold) 25s (hot) 31s (hot) 28s (hot) 26s (hot) 20s (hot) 20s (hot) 20s (hot) Noise level² 72.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 25% 89.2 90.1 89.9 89.7 89.8 90.0 90.7 50% 89.5 90.3 90.1 89.9 89.5 90.2 90.2 Efficiency (%) 75% 91.0 90.5 90.7 90.8 90.2 90.2 91.0 100% 90.5 91.0 90.7 90.8 89.5 90.2 90.2 25% 0.53 0.48 0.44 0.42 0.60 0.57 0.54

0.69

Power Factor 75% 0.85 0.83 0.80 0.78 0.88 0.87 100% 0.88 0.87 0.85 0.84 0.90 0.90 Drive end Non drive end Foundation loads Bearing type 6309 C3 6209 C3

9 g

Bearing type : 6309 C3 6209 C3 Max. traction : 168 lb
Sealing : Inpro/Seal Inpro/Seal Max. compression : 451 lb
Lubrication interval : 19000 h

Mobil Polyrex EM

0.73

Notes

Lubricant amount

Lubricant type

Slip [%]

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).

50%

- (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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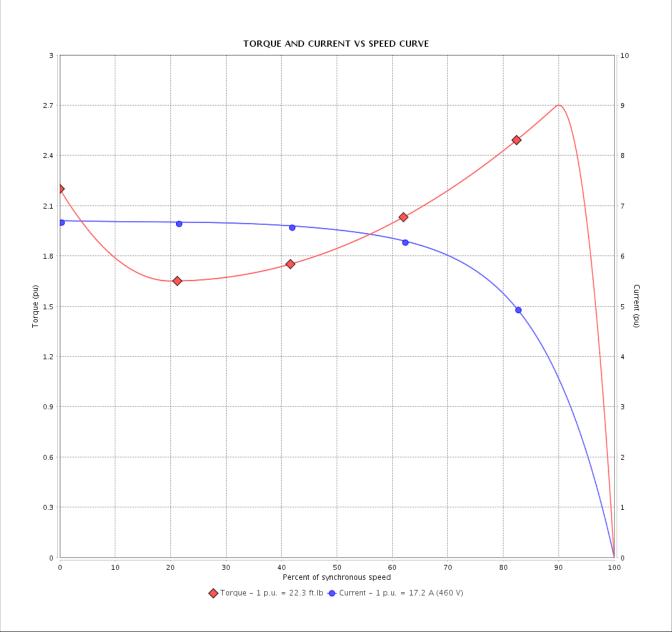
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01536ST3QIE254TC-W22

12385188



Performance : 460 V 60 Hz 2P Rated current : 17.2 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 22.3 ft.lb : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 3530 rpm Design : B

Locked rotor time : 45s (cold) 25s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12385188 Catalog #: 01536ST3QIE254TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 17.8 ft.lb ◆ Current - 1 p.u. = 14.5 A (380 V) Performance : 380 V 50 Hz 2P IE3 Rated current : 14.5 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 17.8 ft.lb : F : 200 % Locked rotor torque Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2945 rpm Design : B Locked rotor time : 55s (cold) 31s (hot) Rev. Performed Checked Date **Changes Summary**

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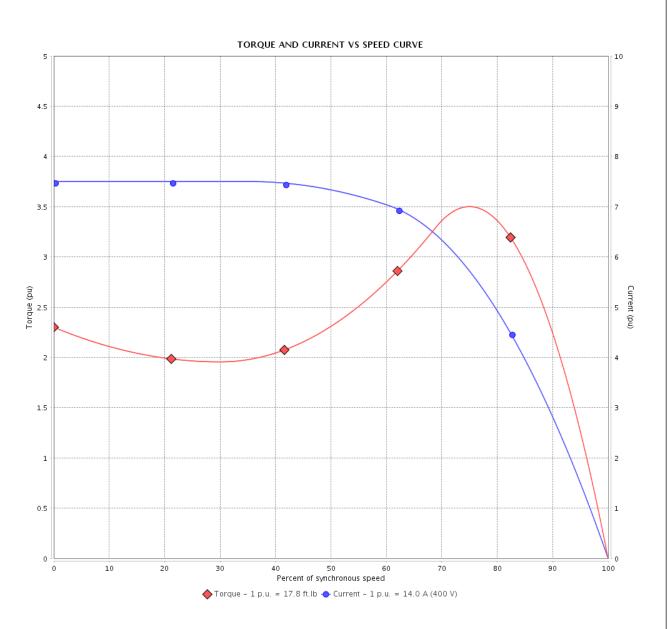
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12385188

Catalog #: 01536ST3QIE254TC-W22



Performance	: 400 V 50 Hz 2P IE3			
Rated current	: 14.0 A	Moment of inertia (J)	: 1.26 sq.ft.lb	
LRC	: 7.5	Duty cycle	: Cont.(S1)	
Rated torque	: 17.8 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.25	
Breakdown torque	: 350 %	Temperature rise	: 80 K	
Rated speed	: 2950 rpm	Design	: B	
Locked rotor time	: 50s (cold) 28s (hot)			

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12385188 Catalog #: 01536ST3QIE254TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 17.8 ft.lb ◆ Current - 1 p.u. = 13.7 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 13.7 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 17.8 ft.lb : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 2955 rpm Design : B Locked rotor time : 46s (cold) 26s (hot) Rev. Performed Checked Date **Changes Summary**

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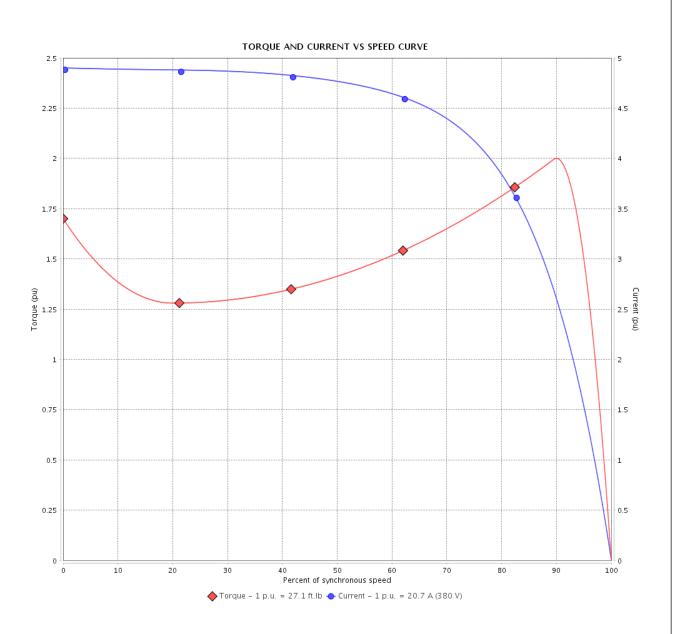
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 01536ST3QIE254TC-W22

12385188



Performance	: 380 V 50 Hz 2P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.7 A : 4.9 : 27.1 ft.lb : 170 % : 200 % : 2910 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Locked rotor time	: 36s (cold) 20s (hot)			

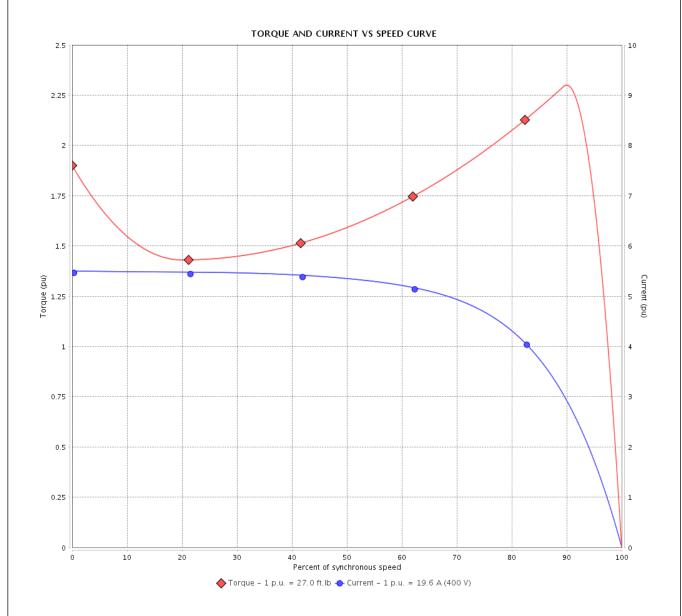
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Customer :

Product line : NEMA Premium Efficiency Three-Product code : 12385188
Phase Catalog # : 01536ST3QIE254TC-W22



Performance : 400 V 50 Hz 2P IE2 Rated current : 19.6 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 27.0 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2920 rpm Design : B Locked rotor time : 36s (cold) 20s (hot)

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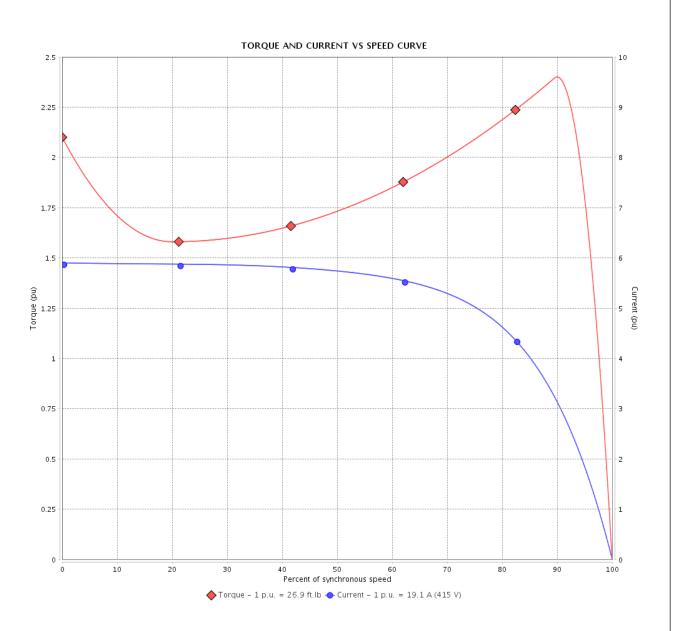
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12385188

Catalog #: 01536ST3QIE254TC-W22



Performance : 415 V 50 Hz 2P IE2 Rated current : 19.1 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 26.9 ft.lb : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2925 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

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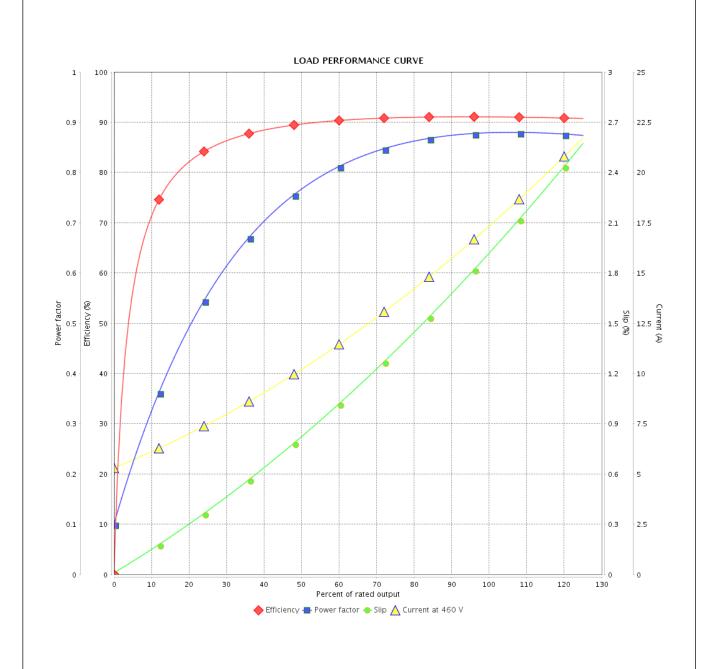
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12385188

Catalog #: 01536ST3QIE254TC-W22



Performance	: 4	460 V 60 Hz 2P				
Rated current	: 1	7.2 A	Moment o	f inertia (J)	ertia (J) : 1.26 sq.ft.lb	
LRC	: 6	.7	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	2.3 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	20 %	Service fa	ctor	: 1.25	
Breakdown torque		70 %	Temperati	Temperature rise		
Rated speed	: 3	: 3530 rpm De			: B	
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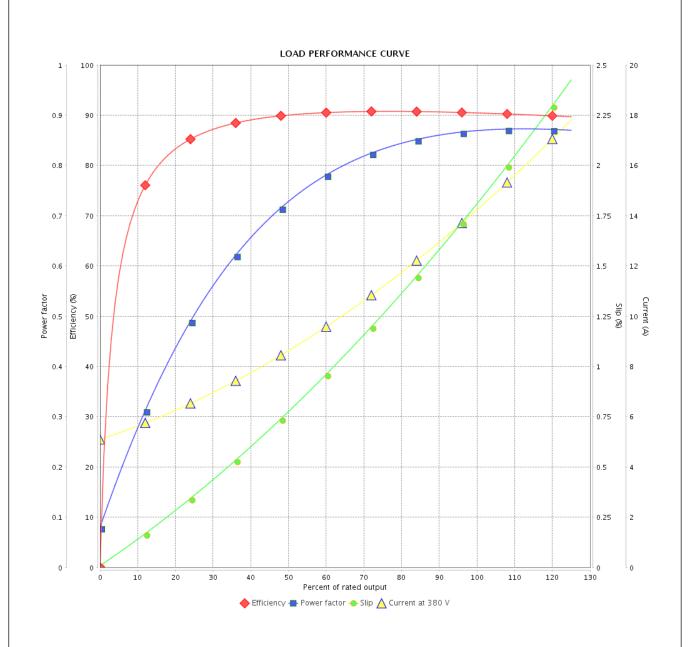
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Product line : NEMA Premium Efficiency Three- Product code : 12385188

Phase

Catalog # : 01536ST3QIE254TC-W22

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Performance : 380 V 50 Hz 2P IE3 : 14.5 A Rated current Moment of inertia (J) : 1.26 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 : 17.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2945 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage

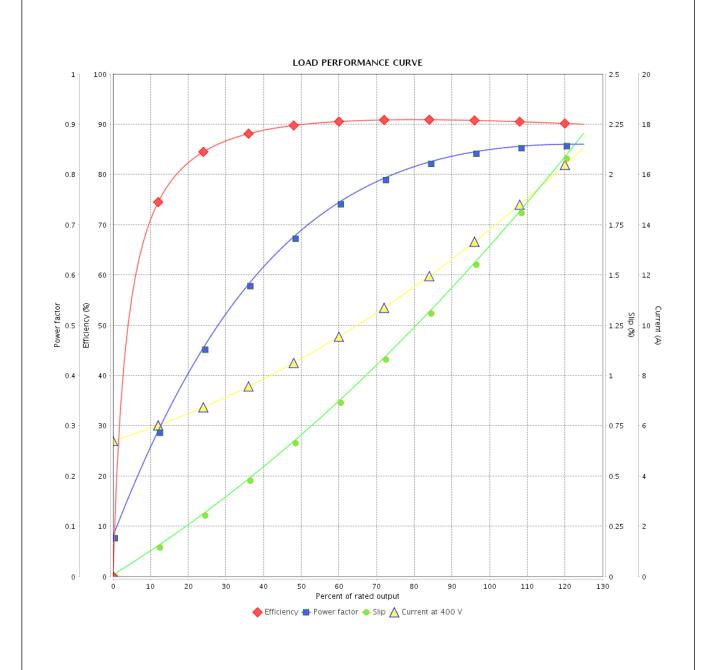


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Product line : NEMA Premium Efficiency Three- Product code : 12385188

Phase

Catalog #: 01536ST3QIE254TC-W22



Performance	: •	: 400 V 50 Hz 2P IE3				
Rated current	:	14.0 A	Moment o	f inertia (J)	: 1.26 sq.ft.lb	
LRC	: '	7.5	Duty cycle	}	: Cont.(S1)	
Rated torque	:	17.8 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	229 %	Service fa	ctor	: 1.25	
Breakdown torque : 350 %		350 %	Temperature rise		: 80 K	
Rated speed : 2950 rpm		2950 rpm	Design		: B	
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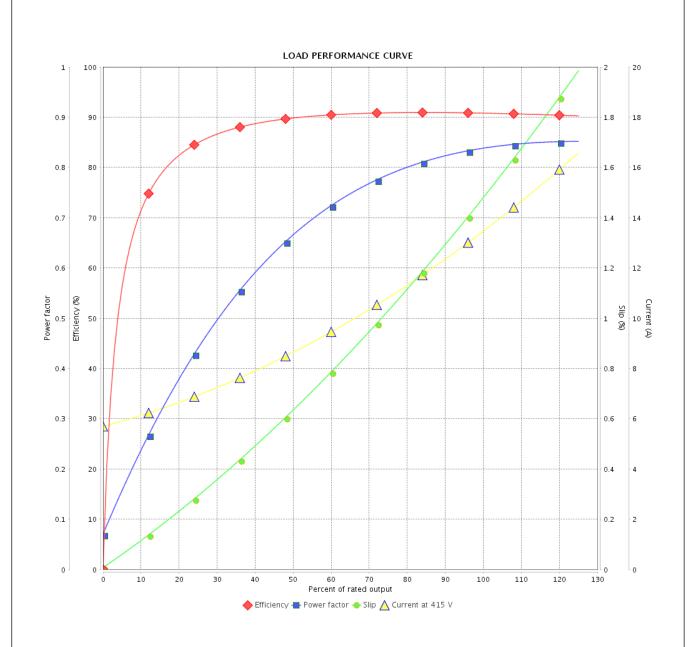
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Product line : NEMA Premium Efficiency Three- Product code : 12385188

Phase

Catalog # : 01536ST3QIE254TC-W22



Performance : 415 V 50 Hz 2P IE3 : 13.7 A Rated current Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 17.8 ft.lb : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 2955 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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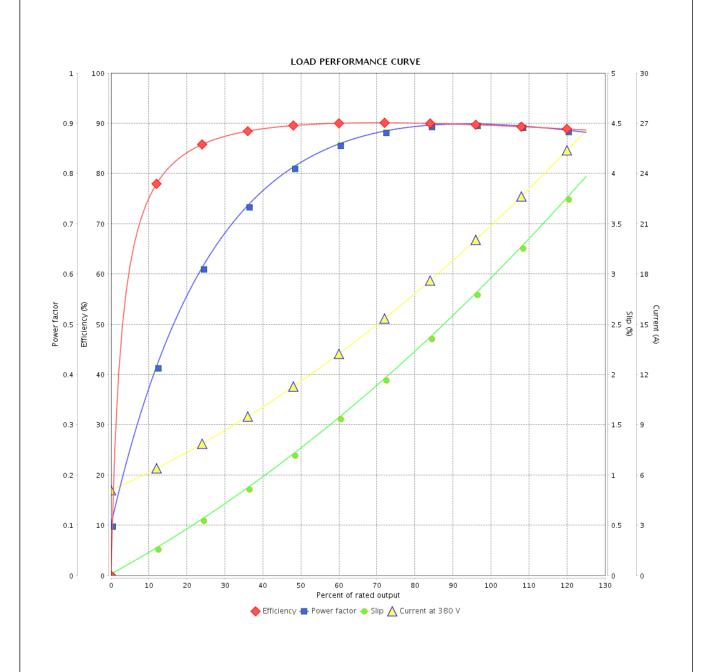


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12385188

Phase

Catalog #: 01536ST3QIE254TC-W22



Performance	: 38	: 380 V 50 Hz 2P IE2				
Rated current	: 20	0.7 A	Moment of	Moment of inertia (J)		
LRC	: 4.	9	Duty cycle	•	: Cont.(S1)	
Rated torque	: 2	7.1 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1	70 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 20	00 %	Temperature rise		: 80 K	
Rated speed : 2910		910 rpm	rpm Design		: B	
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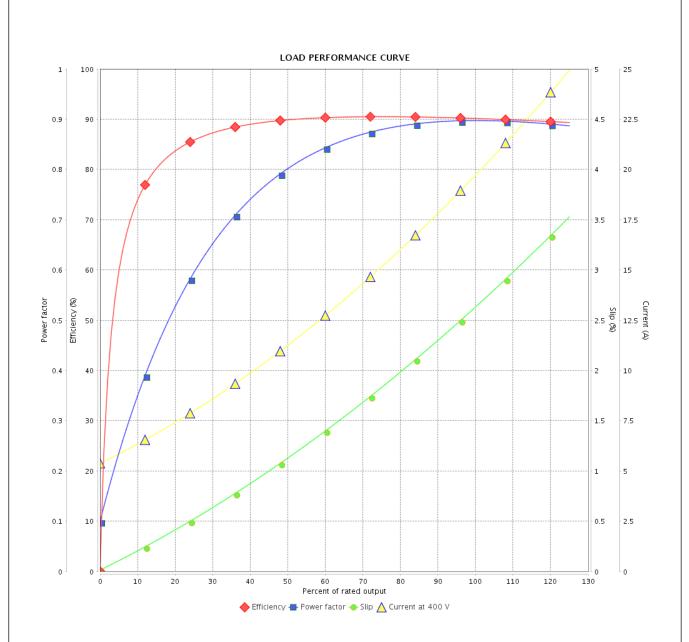
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 01536ST3QIE254TC-W22

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Performance : 400 V 50 Hz 2P IE2 : 19.6 A Rated current Moment of inertia (J) : 1.26 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.5 : 27.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2920 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage

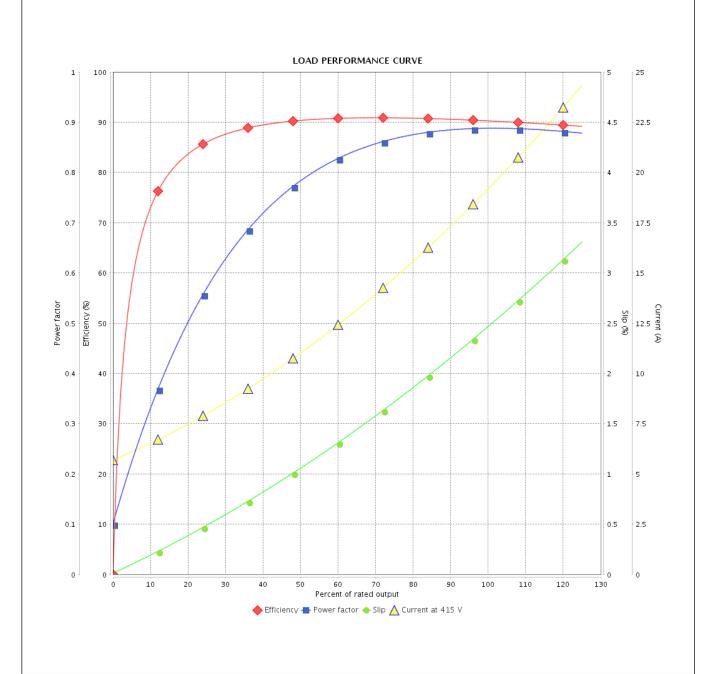


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12385188

Phase

Catalog #: 01536ST3QIE254TC-W22



Performance	: 4	: 415 V 50 Hz 2P IE2				
Rated current	: 19	19.1 A Moment of		ent of inertia (J) : 1.26 sq.ft.lb		
LRC	: 5.	9	Duty cycle)	: Cont.(S1)	
Rated torque	: 26	6.9 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2°	10 %	Service fa	ctor	: 1.15	
Breakdown torqu	Breakdown torque : 240 %		Temperati	Temperature rise		
Rated speed	·		Design		: B	
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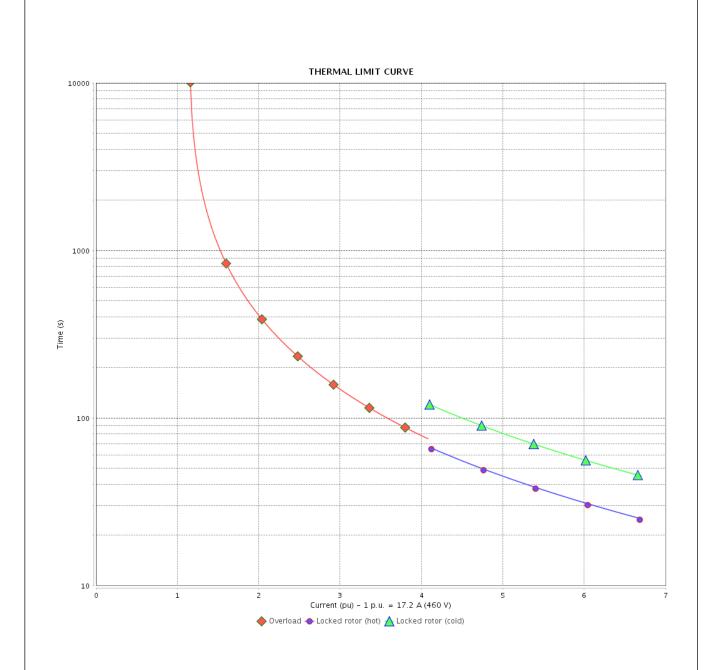


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Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	12385188	
		Filase		Catalog # :	01536ST3Q	E254TC-W22
Performance Rated current		460 V 60 Hz 2P 17.2 A	Moment	of inertia (J)	: 1.26 sq.ft.lb	
LRC	:	6.7	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torq		22.3 ft.lb 220 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		270 % 270 %	Temperati		: 80 K	
Rated speed		3530 rpm	Design		: B	
Heating constant						
Cooling constant						
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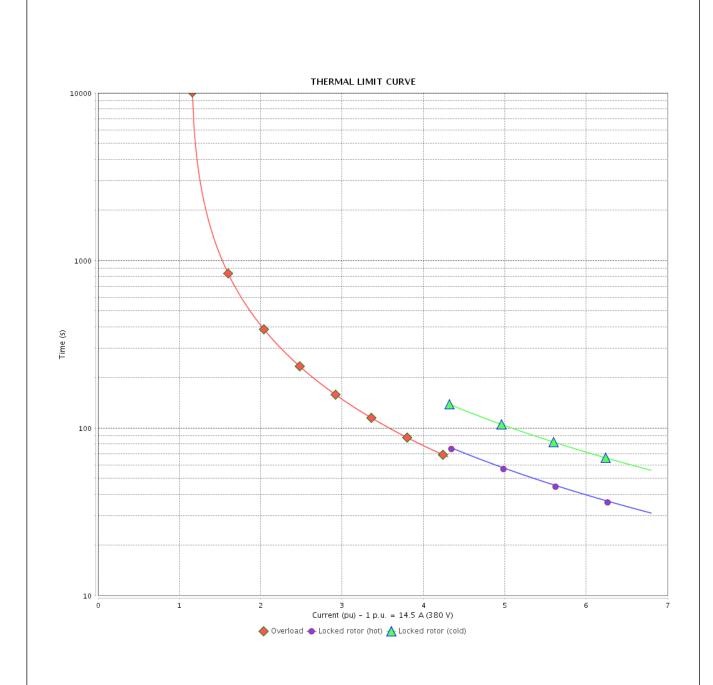


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Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	12385188	
		i ilase		Catalog # :	01536ST3QI	E254TC-W22
Performance	:	380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : que :	14.5 A 6.8 17.8 ft.lb 200 % 310 % 2945 rpm	Moment of Duty cycle Insulation Service far Temperate Design	class ctor	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
						
Heating constant Cooling constant						
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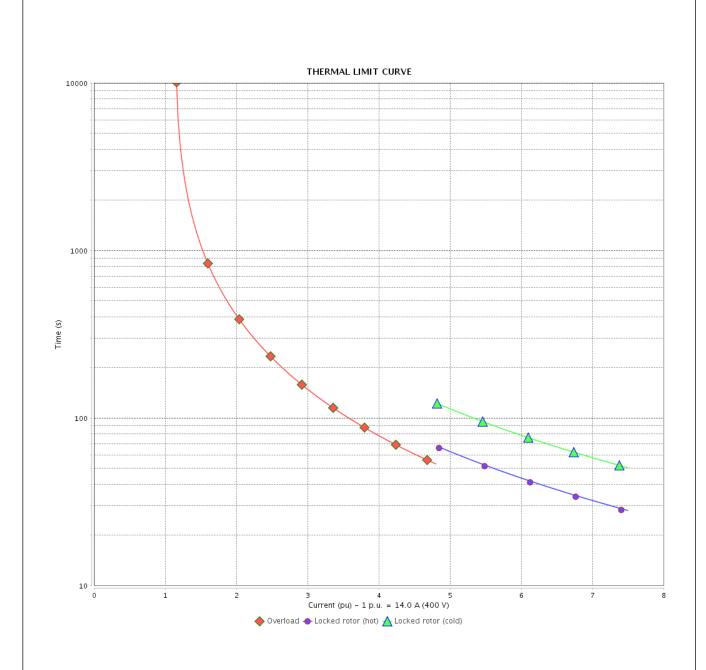


Customer	·				
	·				
Product line	: NEMA Pre Phase	mium Efficiency Three-	Product code :	12385188	
	i nasc		Catalog # :	01536ST3QIE	254TC-W22
Performance	: 400 V 50 Hz	2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.0 A : 7.5 : 17.8 ft.lb : 229 % : 350 % : 2950 rpm	Duty cy Insulation Service	on class	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant	<u>-</u>				
Cooling constant					
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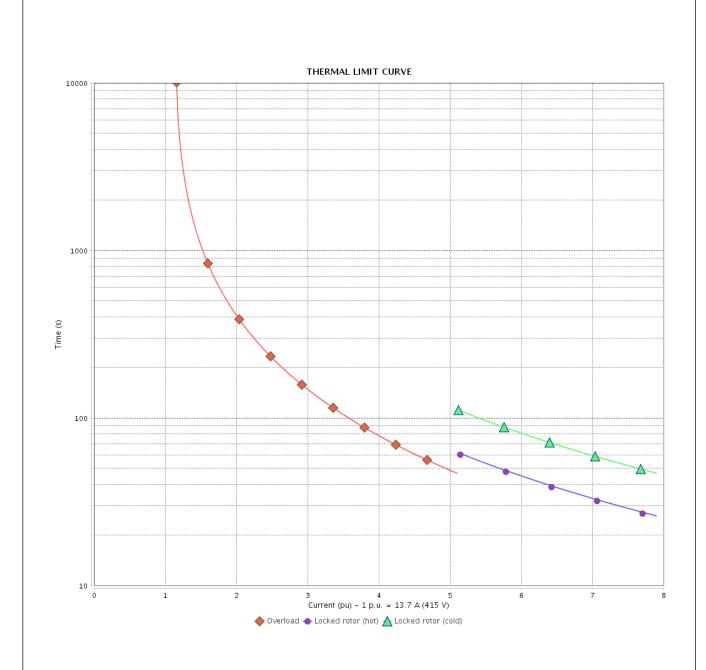


Customer	:			
Product line	: NEMA Premium Efficiency [*] Phase		12385188	
		Catalog # :	01536ST3QIE	:2541C-W22
Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 13.7 A	Moment of inertia (J)	: 1.26 sq.ft.lb	
LRC	: 7.9	Duty cycle	: Cont.(S1)	
Rated torque	: 17.8 ft.lb	Insulation class	: F : 1.25	
Locked rotor torque Breakdown torque	: 250 % : 380 %	Service factor Temperature rise	: 1.25 : 80 K	
Rated speed	: 2955 rpm	Design	: B	
Heating constant				
Cooling constant				
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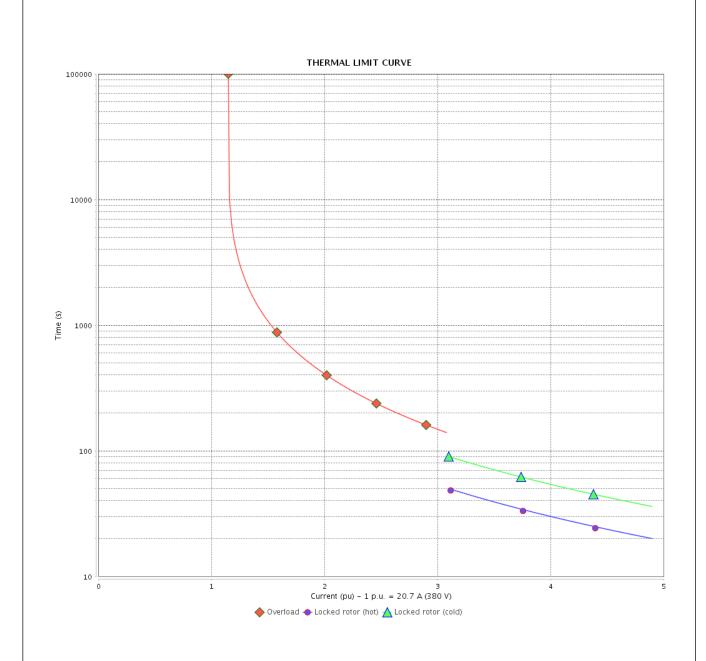


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Product line		NEMA Premium Efficiency Thase	Γhree- I	Product code :	12385188	
	11	1830	(Catalog # :	01536ST3QIE	254TC-W22
Dowformon	. 20	20 V 50 U= 2D IE2				
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20 : 4. : 27 e : 17 : 20	30 V 50 Hz 2P IE2 0.7 A 9 7.1 ft.lb 70 % 00 % 010 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
		•				
Heating constant Cooling constant						
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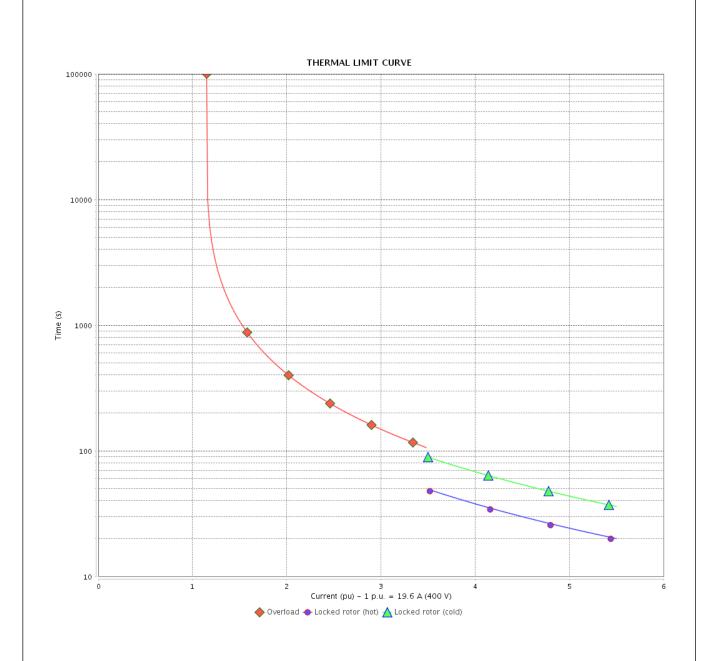


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	12385188 01536ST3QIE	254TC-W22
				Catalog # :	01536ST3QIE	254TC-W22
Performance		: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ue	: 19.6 A : 5.5 : 27.0 ft.lb : 190 % : 229 % : 2920 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.	t	Changes Summary	Dealgil	Performed	Checked	Date
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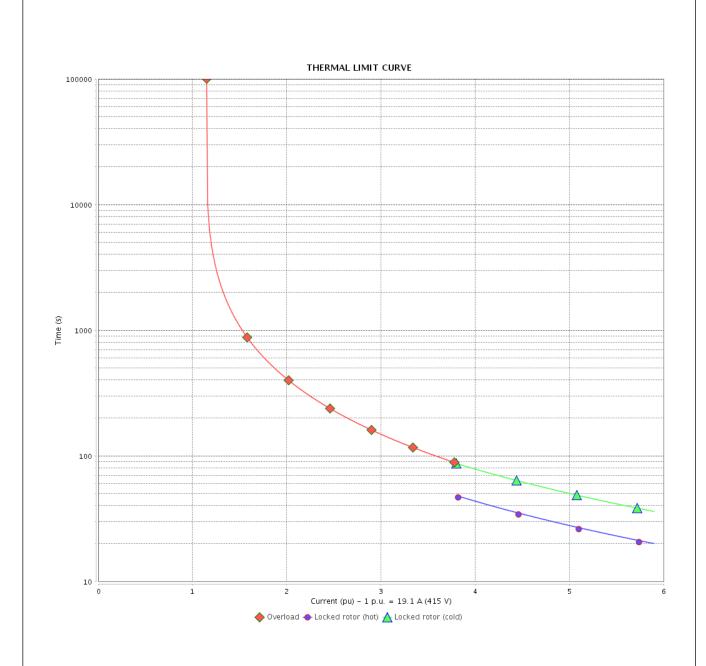


Customer	:					
240101101	•					
Product line		NEMA Premium Efficiency T	Γhree- I	Product code :	12385188	
		1830	(Catalog # :	01536ST3QIE	254TC-W22
Performance		15 V 50 Hz 2P IE2	Marray	finantic (1)	.4.00 6.0	
Rated current LRC	: 19 : 5.	9.1 A 9	Moment of Duty cycle	r inertia (J)	: 1.26 sq.ft.lb : Cont.(S1)	
Rated torque	: 26	6.9 ft.lb	Insulation	class	: F	
Locked rotor torqu		10 %	Service fac		: 1.15	
Breakdown torque Rated speed		40 % 925 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant						
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



Customer :

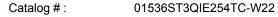
Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

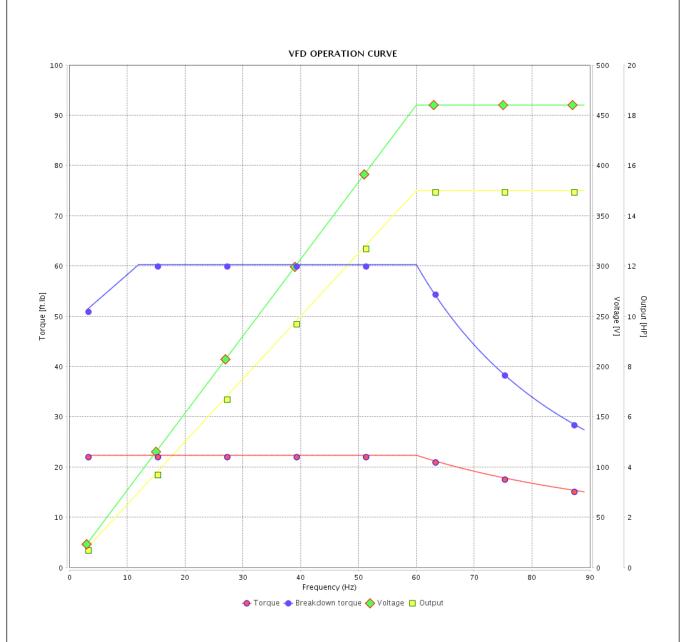


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Revision

12385188



Performance : 460 V 60 Hz 2P : 17.2 A Rated current Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 22.3 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 3530 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

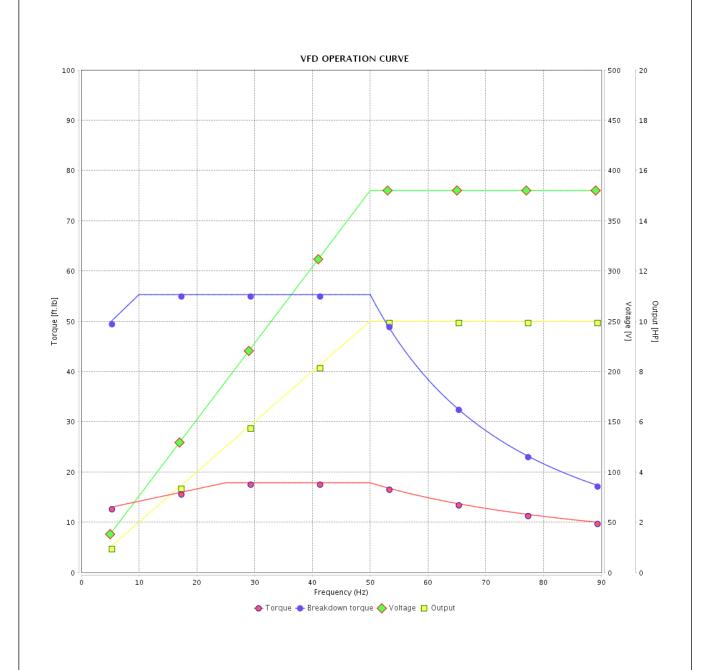


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12385188

Phase

Catalog #: 01536ST3QIE254TC-W22



Performance	: 3	380 V 50 Hz 2P IE3				
Rated current	: '	14.5 A	Moment of	f inertia (J)	: 1.26 sq.ft.lb	
LRC		3.8	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torque		17.8 ft.lb Insulati		class	: F	
		200 % Service	Service fa	ctor	: 1.25	
Breakdown torque	e ::	310 %	Temperati	ıre rise	: 80 K	
Rated speed	: 2	2945 rpm	Design		: B	
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Customer :

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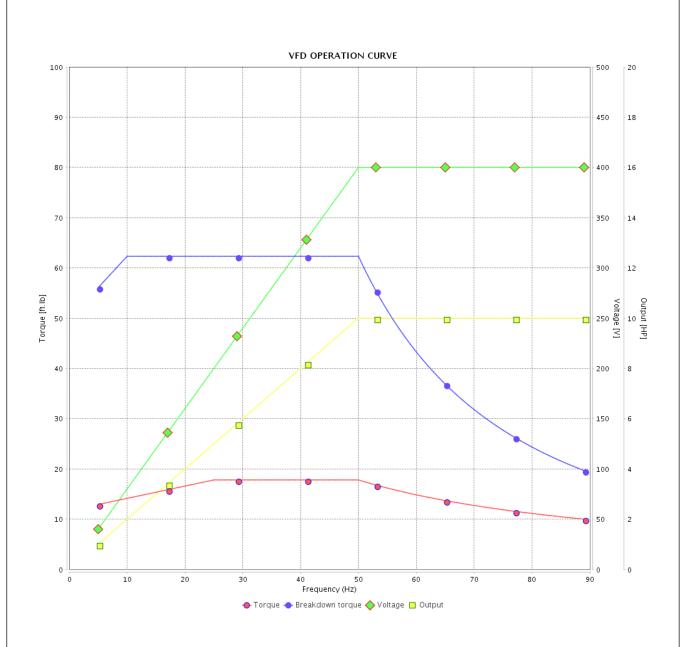
13/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01536ST3QIE254TC-W22

12385188



Performance : 400 V 50 Hz 2P IE3 : 14.0 A Rated current Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class : 17.8 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 2950 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



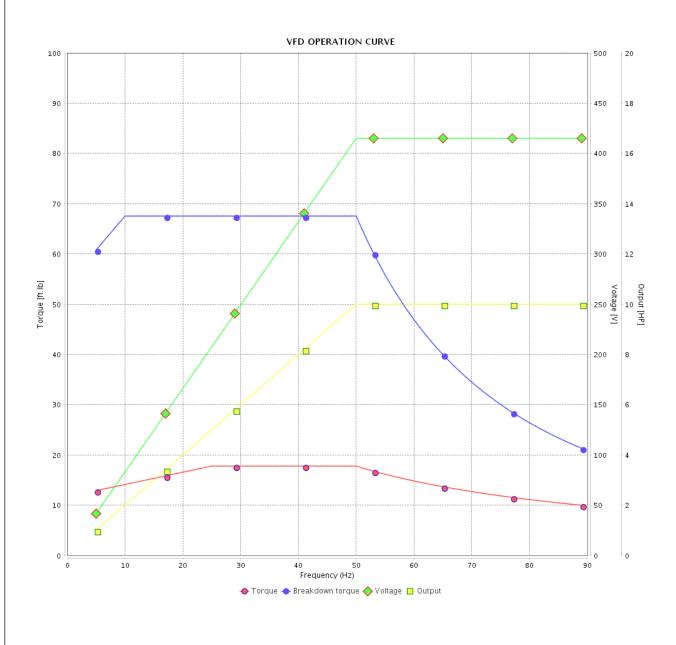
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12385188

Phase

Catalog #: 01536ST3QIE254TC-W22

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.7 A : 7.9 : 17.8 ft.lb : 250 % : 380 % : 2955 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.26 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Performed by					
Checked by				Page	Revision

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Three Phase Induction Motor - Squirrel Cage

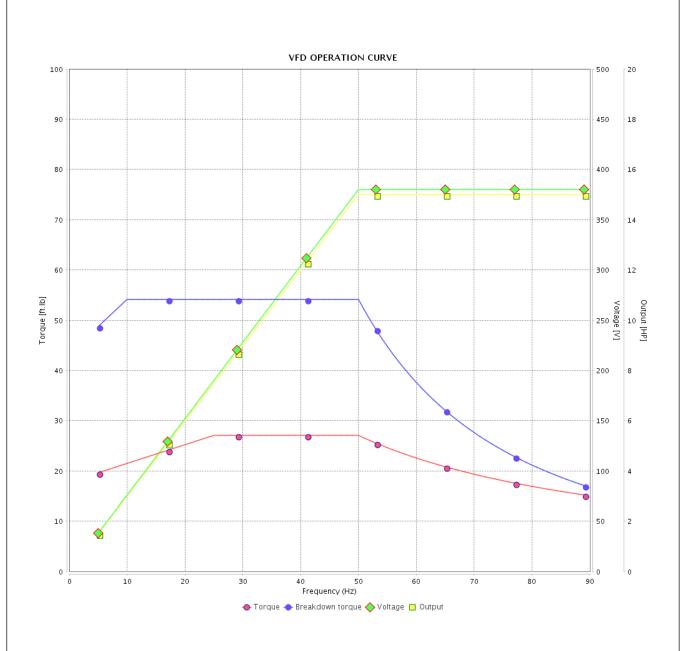


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 12385188

Catalog #: 01536ST3QIE254TC-W22



Performance : 380 V 50 Hz 2P IE2 Rated current : 20.7 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 4.9 Duty cycle : Cont.(S1) Insulation class : 27.1 ft.lb : F Rated torque Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 2910 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

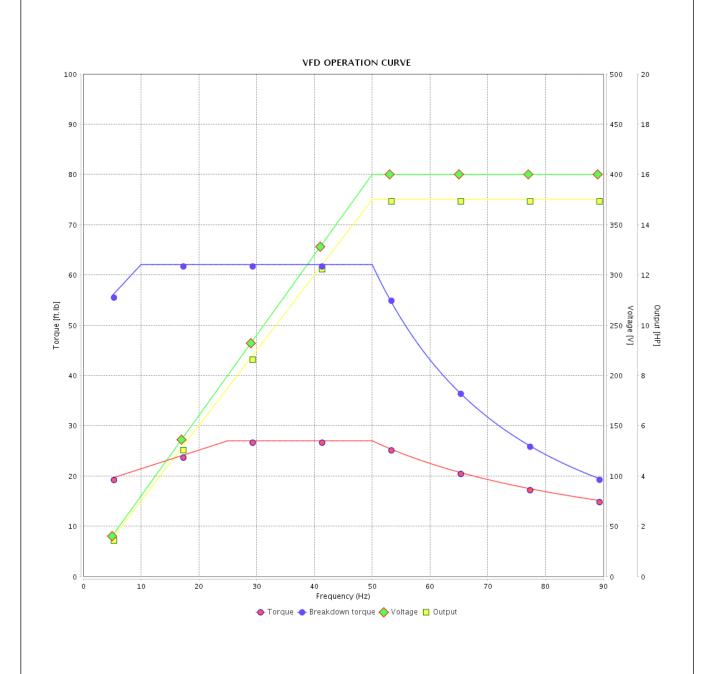


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12385188

Phase

Catalog #: 01536ST3QIE254TC-W22



Performance : 400 V 50 Hz 2P IE2 Rated current LRC : 19.6 A S.5 Moment of inertia (J) Duty cycle : 1.26 sq.ft.lb Duty cycle : Cont.(S1)		
LRC : 5.5 Duty cycle : Cont.(S1)		
Rated torque : 27.0 ft.lb Insulation class : F	:F	
Locked rotor torque : 190 % Service factor : 1.00		
Breakdown torque : 229 % Temperature rise : 80 K		
Rated speed : 2920 rpm Design : B		
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : NEMA Premium Efficiency Three- Product code :

Phase

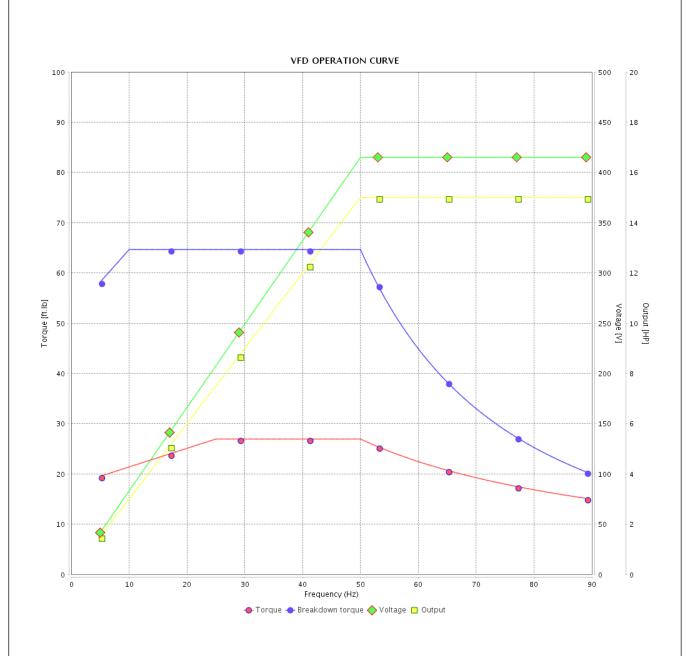
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Performance : 415 V 50 Hz 2P IE2 : 19.1 A Rated current Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class : 26.9 ft.lb : F Rated torque Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2925 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

