### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12092272

Catalog #: 02036ST3QIE256TC-W22

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

: 1000 m.a.s.l. Altitude Approx. weight<sup>3</sup> : 321 lb

Protection degree	: IP55		Momer	nt of inertia (J)	: 1	.54 sq.ft.lb	
Design	: B						
Output [HP]	20	15	15	15	20	20	20
Poles	2	2	2	2	2	2	2
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	460	380	400	415	380	400	415
Rated current [A]	23.2	20.4	19.6	19.1	28.6	27.2	26.0
L. R. Amperes [A]	142	141	151	155	146	155	159
LRC [A]	6.1x(Code	6.9x(Code	7.7x(Code H)	8.1x(Code J)	5.1x(Code E)	5.7x(Code F)	6.1x(Code
	G)	G)					G)
No load current [A]	6.50	6.40	6.85	7.15	6.40	6.85	7.15
Rated speed [RPM]	3520	2925	2935	2940	2895	2905	2915
Slip [%]	2.22	2.50	2.17	2.00	3.50	3.17	2.83
Rated torque [ft.lb]	29.8	26.9	26.8	26.8	36.3	36.2	36.0
Locked rotor torque [%]	200	220	240	270	160	180	200
Breakdown torque [%]	240	260	280	310	190	210	229
Service factor	1.25	1.15	1.15	1.15	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time	37s (cold)	28s (cold)	28s (cold)	28s (cold)	28s (cold)	28s (cold)	28s (cold)
	21s (hot)	16s (hot)	16s (hot)	16s (hot)	16s (hot)	16s (hot)	16s (hot)
Noise level <sup>2</sup>	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)

Drive end

25%

50%

75%

100%

25%

50%

75%

100%

91.4

91.0

91.7

91.0

0.57

0.82

0.87

0.89

0.89 Non drive end Foundation loads

90.2

90.4

91.2

91.2

0.50

0.75

0.85

Bearing type Sealing Lubrication interval

Efficiency (%)

Power Factor

6309 C3 6209 C3 Inpro/Seal Inpro/Seal 19000 h 20000 h

90.1

90.6

90.9

91.2

0.53

0.78

0.87

0.90

Max. traction : 236 lb : 558 lb Max. compression

89.5

89.8

91.1

91.2

0.48

0.73

0.84

0.88

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.

92.4

91.0

90.2

88.5

0.63

0.86

0.89

0.90

92.1

91.0

91.0

89.5

0.59

0.84

0.88

0.89

91.5

91.0

91.0

90.2

0.57

0.82

0.87

0.89

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#### Three Phase Induction Motor - Squirrel Cage



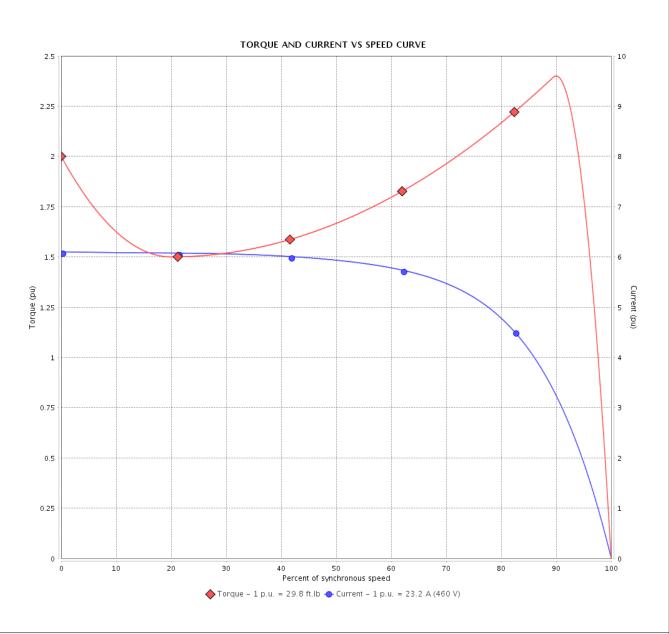
Customer :

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 12092272

Catalog #: 02036ST3QIE256TC-W22



Performance : 460 V 60 Hz 2P Rated current : 23.2 A Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 29.8 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3520 rpm Design : B

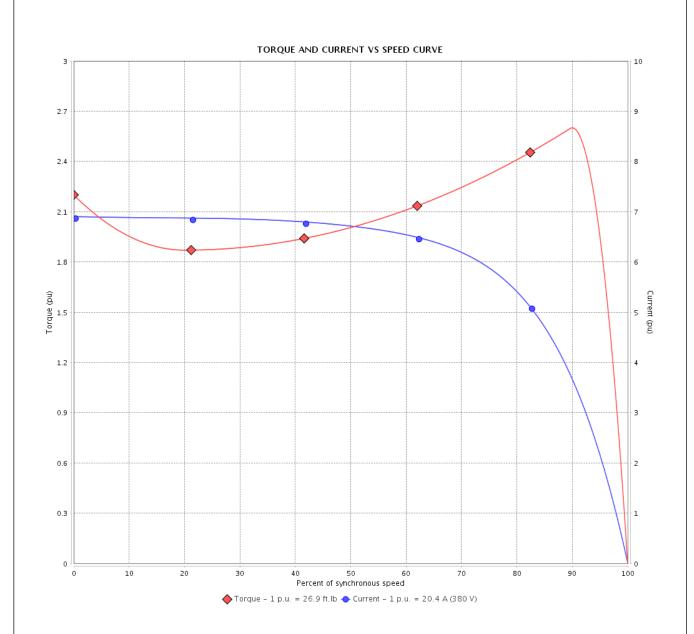
Locked rotor time : 37s (cold) 21s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12092272 Catalog #: 02036ST3QIE256TC-W22



Performance : 380 V 50 Hz 2P IE3 Rated current : 20.4 A Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : 26.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K : B Rated speed : 2925 rpm Design Locked rotor time : 28s (cold) 16s (hot)

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### Three Phase Induction Motor - Squirrel Cage



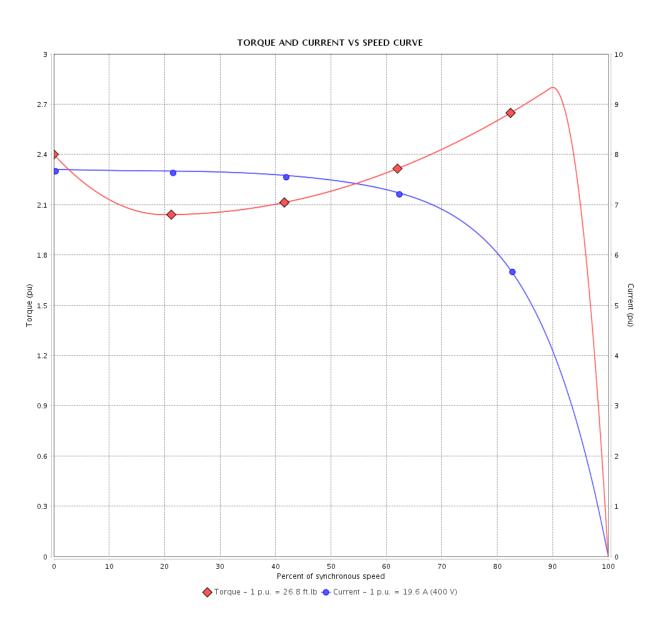
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 12092272

Catalog #: 02036ST3QIE256TC-W22



Performance	: 400 V 50 Hz 2P IE3		
Rated current LRC	: 19.6 A : 7.7	Moment of inertia (J)	: 1.54 sq.ft.lb
Rated torque	. 7.7 : 26.8 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2935 rpm	Design	: B
Locked rotor time	: 28s (cold) 16s (hot)		

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: 12092272 Catalog #: 02036ST3QIE256TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 26.8 ft.lb ◆ Current - 1 p.u. = 19.1 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 19.1 A Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 8.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 26.8 ft.lb : F : 270 % Locked rotor torque Service factor : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2940 rpm Design : B Locked rotor time : 28s (cold) 16s (hot) Rev. Performed Checked Date **Changes Summary** 

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#### Three Phase Induction Motor - Squirrel Cage



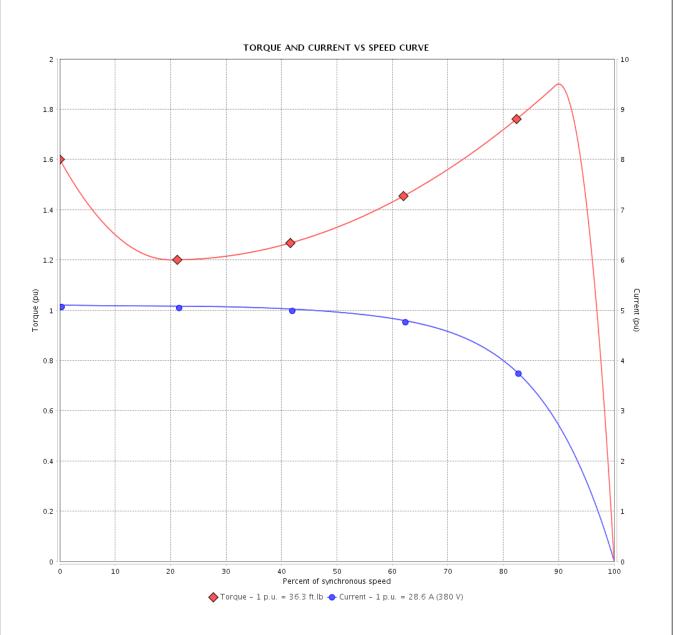
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12092272

Catalog #: 02036ST3QIE256TC-W22



Performance : 380 V 50 Hz 2P Rated current : 28.6 A Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 36.3 ft.lb : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 2895 rpm Design : B Locked rotor time : 28s (cold) 16s (hot)

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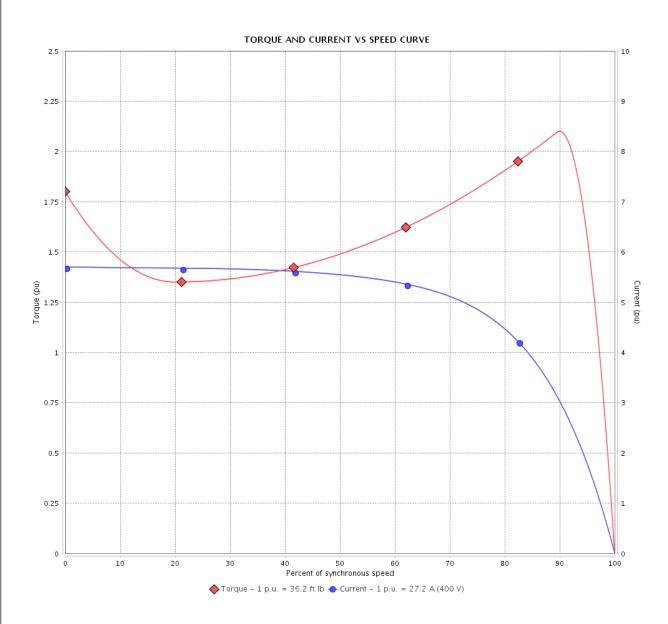


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12092272

Phase

Catalog # : 02036ST3QIE256TC-W22



Performance	: 400 V 50 Hz 2P IE1			
Rated current	: 27.2 A	Moment of inertia (J)	: 1.54 sq.ft.lb	
LRC	: 5.7	Duty cycle	: Cont.(S1)	
Rated torque	: 36.2 ft.lb	Insulation class	: F	
Locked rotor torque	: 180 %	Service factor	: 1.00	
Breakdown torque	: 210 %	Temperature rise	: 105 K	
Rated speed	: 2905 rpm	Design	: B	

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

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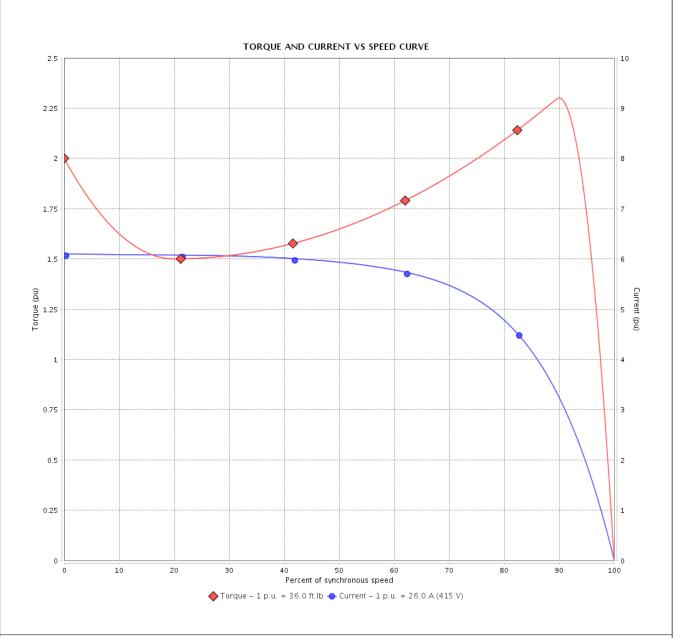


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12092272

Phase

Catalog #: 02036ST3QIE256TC-W22



Performance : 415 V 50 Hz 2P IE1 Rated current : 26.0 A Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 36.0 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 2915 rpm Design : B

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

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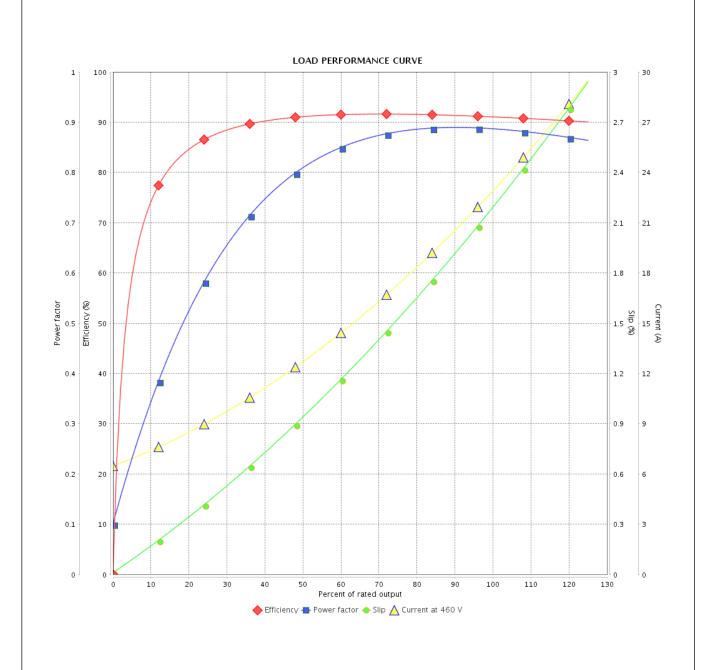
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12092272

Phase

Catalog #: 02036ST3QIE256TC-W22

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Performance	: 460 V 60 Hz 2P				
Rated current	: 23.2 A	Moment of	f inertia (J)	: 1.54 sq.ft.lb	
LRC	: 6.1	Duty cycle	)	: Cont.(S1)	
Rated torque	: 29.8 ft.lb	Insulation	class	: F	•
Locked rotor torque	: 200 %	Service factor Temperature rise		: 1.25	
Breakdown torque	: 240 %			: 80 K	
Rated speed	: 3520 rpm	Design		: B	
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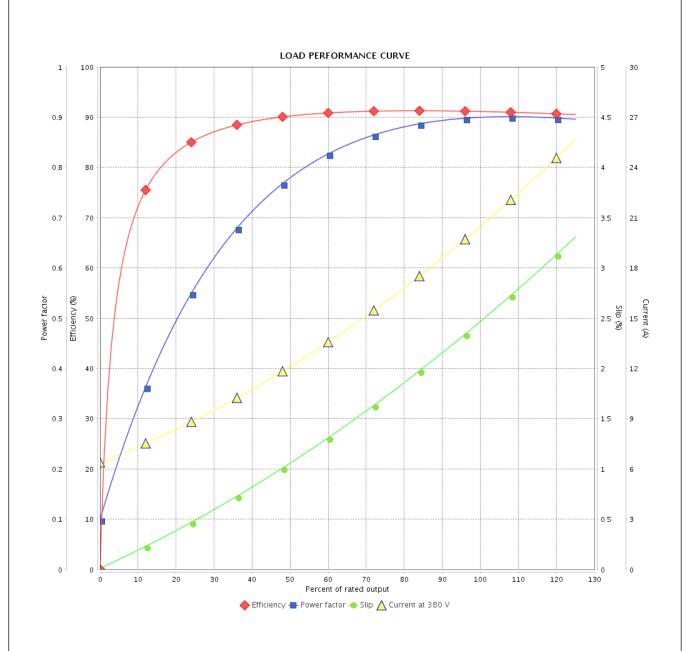
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Product line : NEMA Premium Efficiency Three- Product code : 12092272

Phase

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Performance : 380 V 50 Hz 2P IE3 Rated current : 20.4 A Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : 26.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2925 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

#### Three Phase Induction Motor - Squirrel Cage



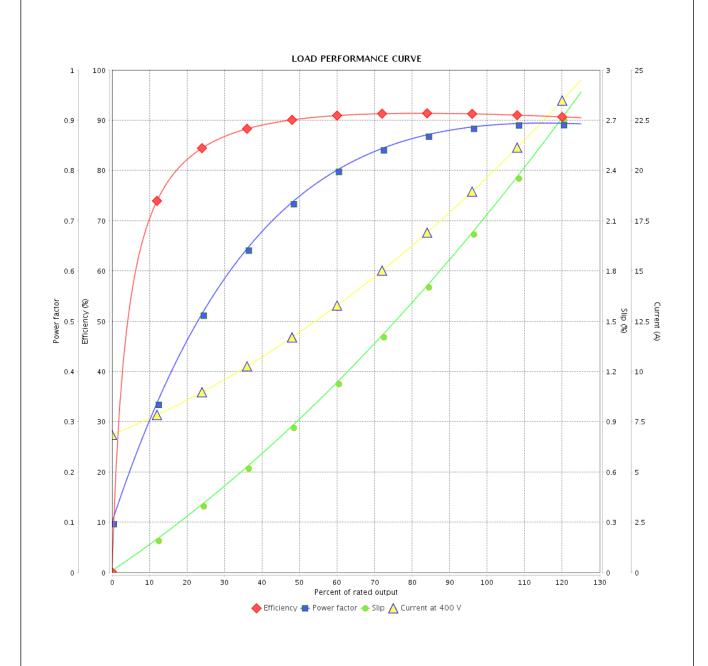
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Product line : NEMA Premium Efficiency Three- Product code : 12092272

Phase

Catalog #: 02036ST3QIE256TC-W22

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Performance	: 400 V 50 Hz 2P IE3				
Rated current	: 19.6 A	Moment of in	nertia (J)	: 1.54 sq.ft.lb	
LRC	: 7.7	Duty cycle		: Cont.(S1)	
Rated torque	: 26.8 ft.lb	Insulation cla	ass	: F	
Locked rotor torque	: 240 %	Service factor	or	: 1.15	
Breakdown torque	: 280 %	Temperature rise		: 80 K	
Rated speed	: 2935 rpm	Design		: B	
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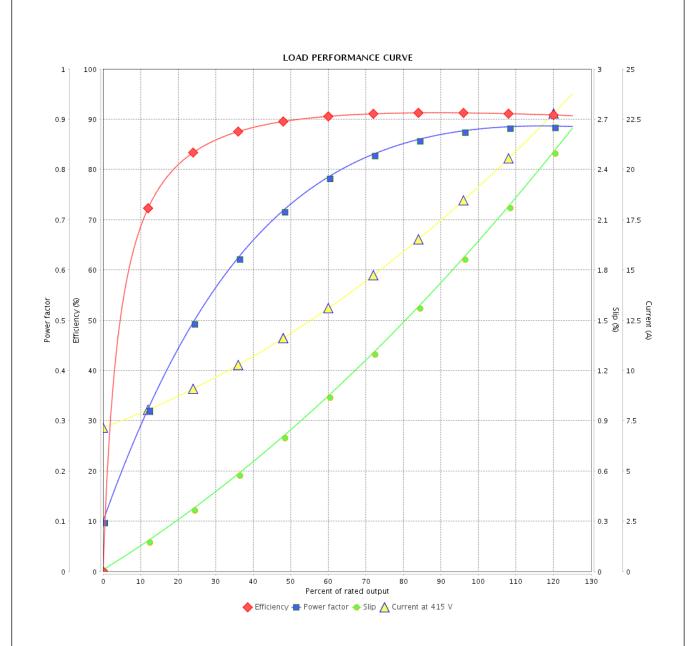
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Phase

Catalog #: 02036ST3QIE256TC-W22

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Performance : 415 V 50 Hz 2P IE3 : 19.1 A Rated current Moment of inertia (J) : 1.54 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.1 : 26.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2940 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

#### Three Phase Induction Motor - Squirrel Cage

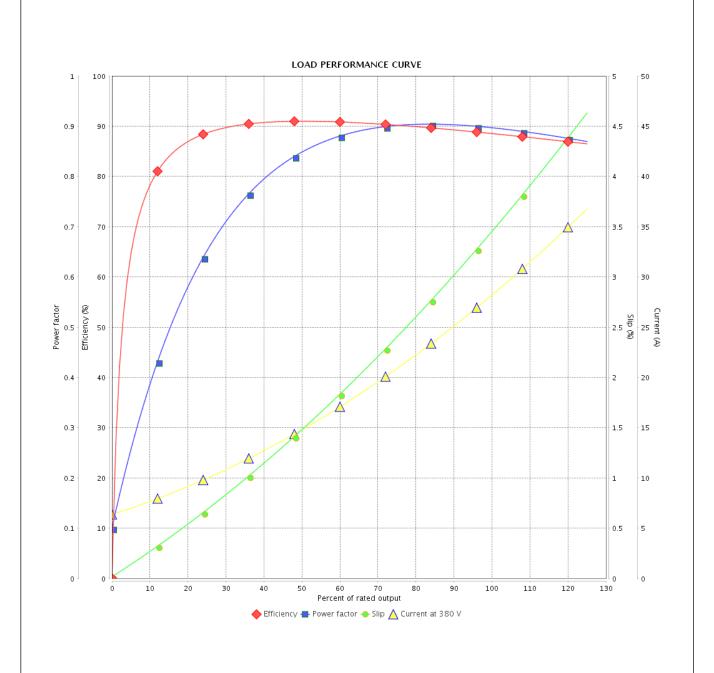


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12092272

Phase

Catalog #: 02036ST3QIE256TC-W22



			<del>,</del>			
Performance	:	380 V 50 Hz 2P				
Rated current	:	28.6 A	Moment of	f inertia (J)	: 1.54 sq.ft.lb	
LRC	:	5.1	Duty cycle	<del>)</del>	: Cont.(S1)	
Rated torque	:	36.3 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	160 %	Service fa	ctor	: 1.00	
Breakdown torque	:	190 %	Temperature rise		: 105 K	
Rated speed	:	2895 rpm	Design		: B	
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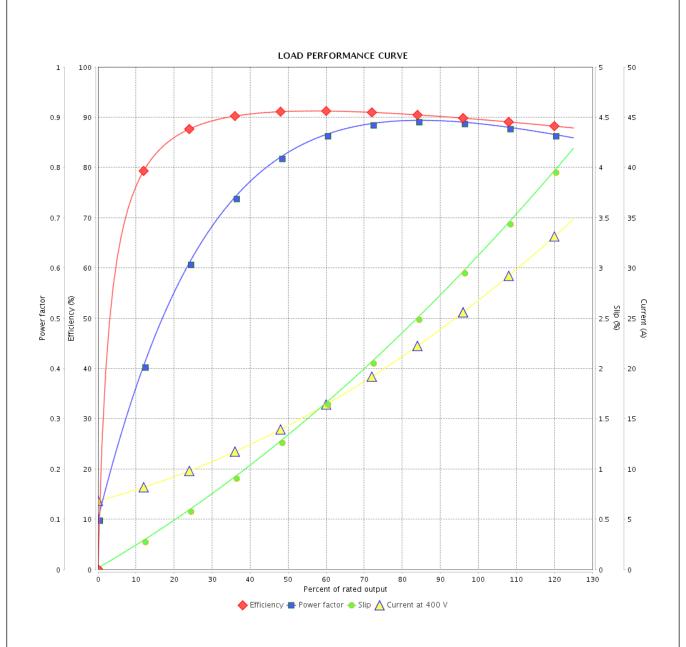
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12092272

Catalog #: 02036ST3QIE256TC-W22



Performance : 400 V 50 Hz 2P IE1 : 27.2 A Moment of inertia (J) : 1.54 sq.ft.lb Rated current **LRC** : Cont.(S1) : 5.7 Duty cycle : 36.2 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 2905 rpm Design : B Rev. **Changes Summary** Performed Checked Date

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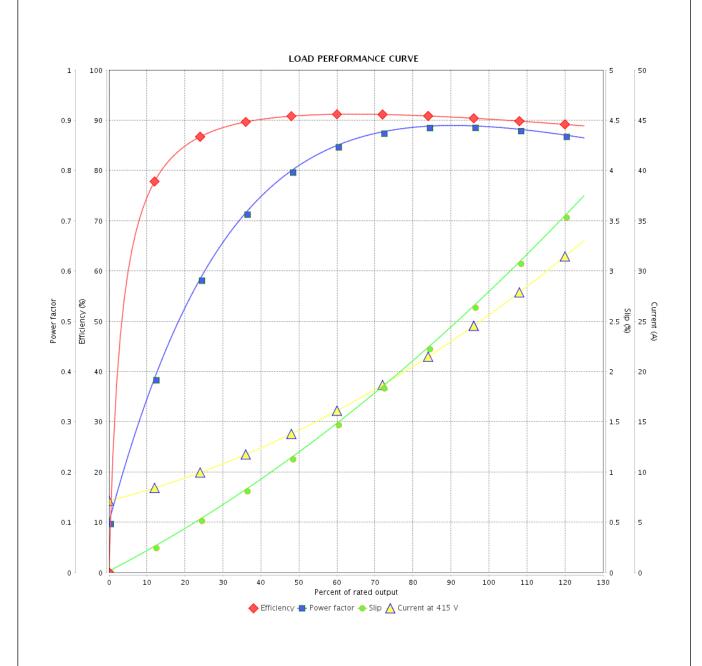


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12092272

Phase

Catalog #: 02036ST3QIE256TC-W22



Performance	: 4	15 V 50 Hz 2P IE1				
Rated current	: 2	6.0 A	Moment o	f inertia (J)	: 1.54 sq.ft.lb	
LRC	: 6	5.1	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	6.0 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	.00 %	Service fa	ctor	: 1.00	
Breakdown torque		29 %	Temperature rise		: 105 K	
Rated speed	: 2	915 rpm	Design		: B	
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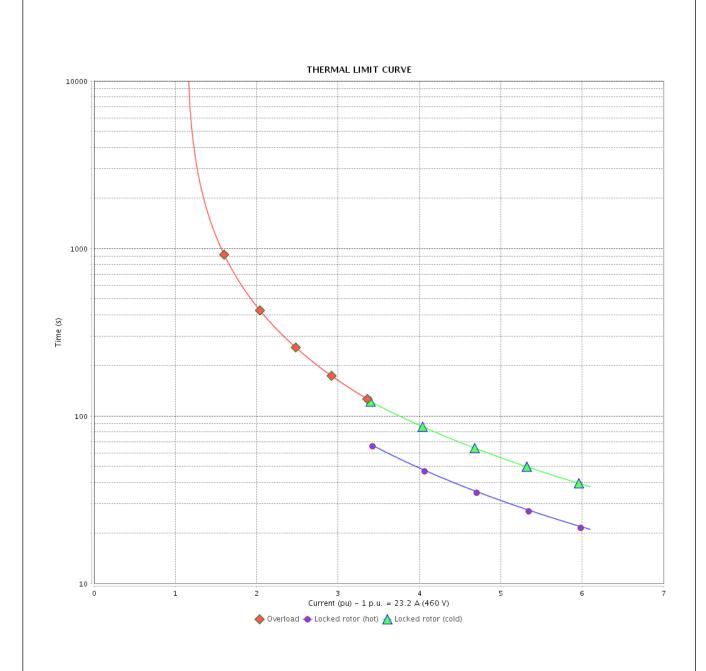


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Product line	: 1	NEMA Premium Efficiency	Three-	Product code :	12092272	
		nase				-050TO W00
				Catalog # :	02036ST3QIE	-2561C-W22
Performance	: 46	60 V 60 Hz 2P				
Rated current	: 23	3.2 A	Moment of	f inertia (J)	: 1.54 sq.ft.lb	
LRC	: 6. : 30		Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque Locked rotor torc		9.8 ft.lb 90 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ie : 24	10 %	Temperatu		: 80 K	
Rated speed	: 35	520 rpm	Design		: B	
Heating constant						
Cooling constant			П			
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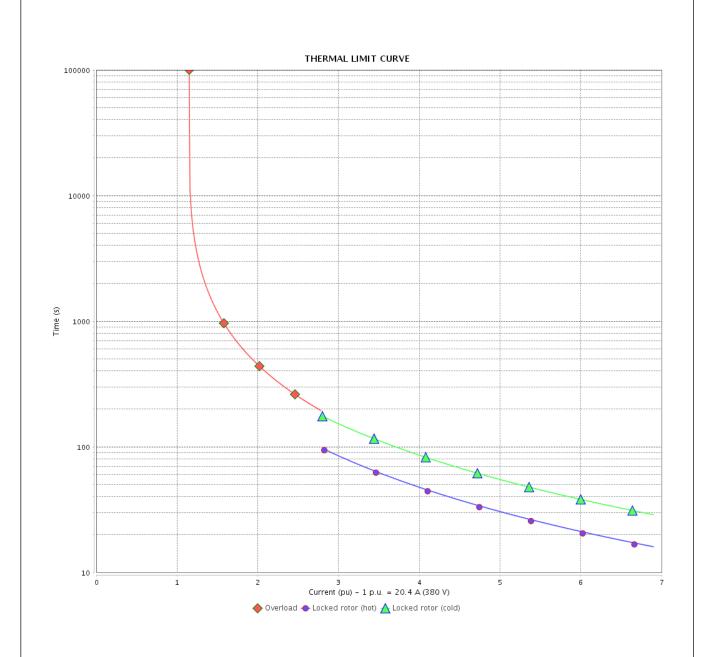


Customer	:			
Product line	: NEMA Premium Efficiency T Phase	Three- Product code :  Catalog # :	12092272 02036ST3QIE	256TC-W22
		<b></b>		
Performance	: 380 V 50 Hz 2P IE3			
Rated current	: 20.4 A	Moment of inertia (J)	: 1.54 sq.ft.lb	
LRC	: 6.9	Duty cycle	: Cont.(S1)	
Rated torque Locked rotor torque	: 26.9 ft.lb : 220 %	Insulation class Service factor	: F : 1.15	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 2925 rpm	Design	: B	
Heating constant				
Cooling constant	Charges Comment	Davida	Charles I	Data
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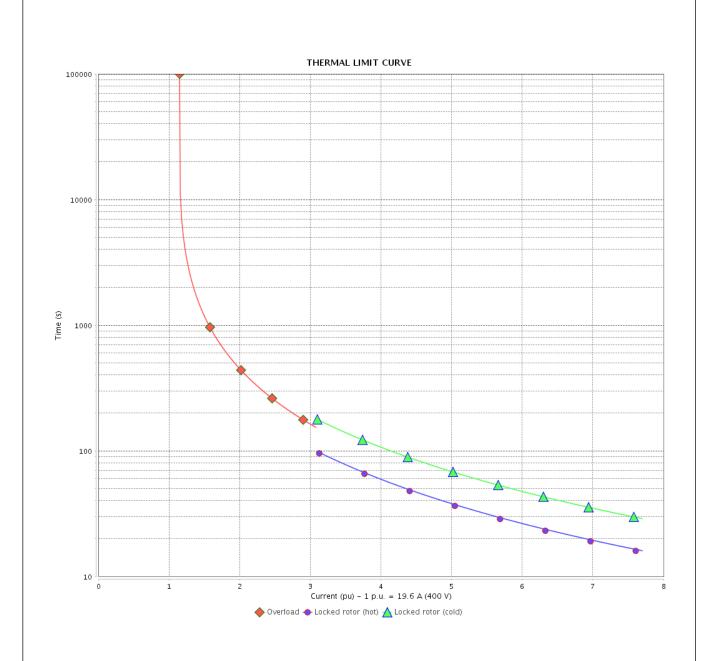


Customer	:			
Product line	: NEMA Premium Efficiency Phase			2092272
		Catalog #	<b>#</b> : 0	2036ST3QIE256TC-W22
Performance	: 400 V 50 Hz 2P IE3			
Rated current LRC	: 19.6 A : 7.7	Moment of inertia ( Duty cycle	J) : 1 · C	.54 sq.ft.lb cont.(S1)
Rated torque	: 26.8 ft.lb	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor		.15
Breakdown torque Rated speed	: 280 % : 2935 rpm	Temperature rise Design	: 8 : B	0 K
Heating constant				
Cooling constant  Rev.	Changes Summary	Perfo	rmed Ch	ecked Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

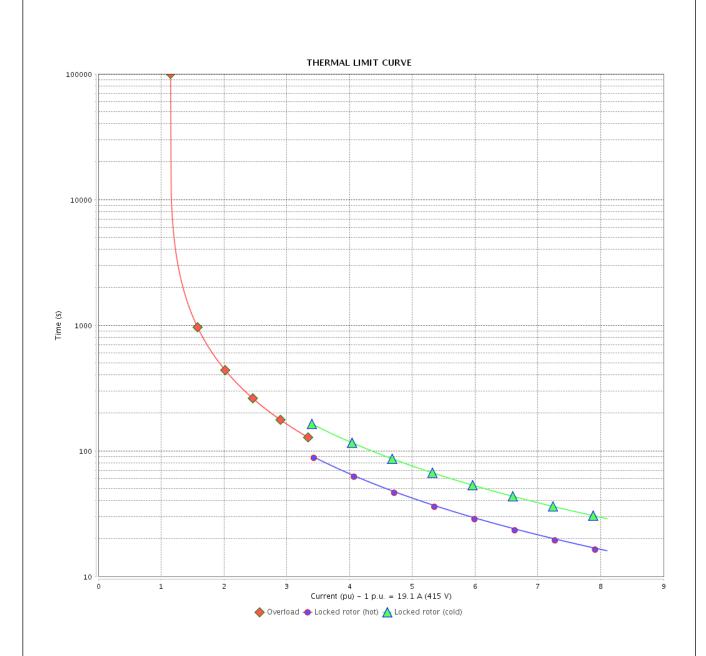


Customer	· · · · · · · · · · · · · · · · · · ·			
	•			
Product line	: NEMA Premium Efficiency Phase	Three- Product code	: 12092272	
	i ilase	Catalog # :	02036ST3QI	E256TC-W22
Performance	: 415 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19.1 A : 8.1 : 26.8 ft.lb : 270 % : 310 % : 2940 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	·	<del>-</del>		
Cooling constant				
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

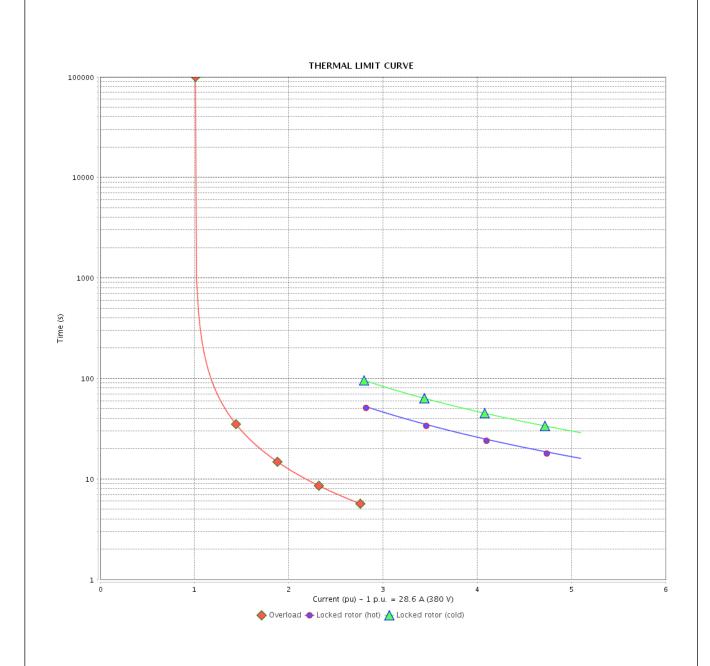


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	12092272	E256TC-W22
				02030313Q11	
Performance	: 380 V 50 Hz 2P				
Rated current	: 28.6 A	Moment o	f inertia (J)	: 1.54 sq.ft.lb	
LRC	: 5.1	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque Locked rotor torque	: 36.3 ft.lb : 160 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 190 %	Temperatu		: 105 K	
Rated speed	: 2895 rpm	Design		: 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

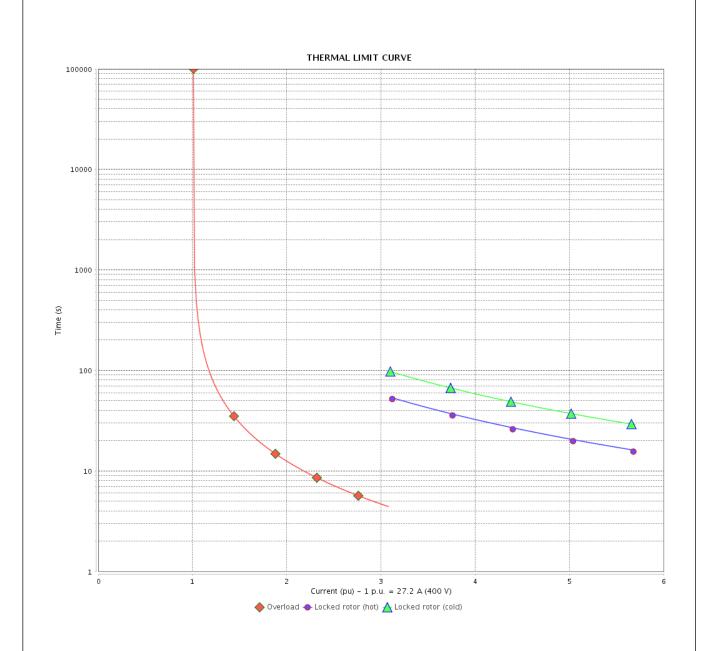


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		ct code :	12092272	25CTC W22
		Catalo	g # : 	02036ST3QIE	2561C-W22
Performance	: 400 V 50 Hz 2P IE1	NA	- (1)	. 4 5 4 6 11	
Rated current LRC	: 27.2 A : 5.7	Moment of inertial Duty cycle	a (J)	: 1.54 sq.ft.lb : Cont.(S1)	
Rated torque	: 36.2 ft.lb	Insulation class		: F	
Locked rotor torque	: 180 % : 210 %	Service factor		: 1.00 : 105 K	
Breakdown torque Rated speed	: 210 % : 2905 rpm	Temperature rise Design	;	: 105 K : 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

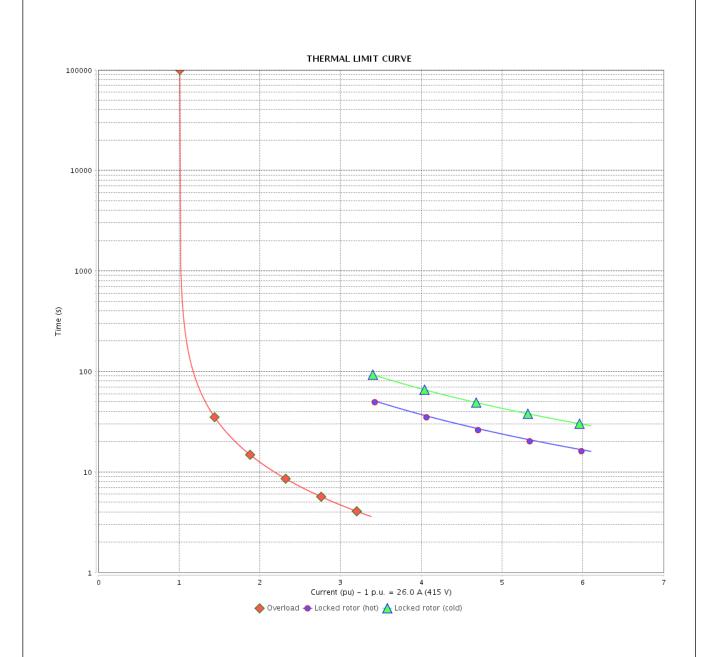


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12092272 02036ST3QIE	256TC-W22
				Catalog # :	02036ST3QIE	256TC-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant	que le	: 415 V 50 Hz 2P IE1 : 26.0 A : 6.1 : 36.0 ft.lb : 200 % : 229 % : 2915 rpm	Moment of Duty cycle Insulation Service far Temperate Design	class ctor	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	Date
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#### Three Phase Induction Motor - Squirrel Cage



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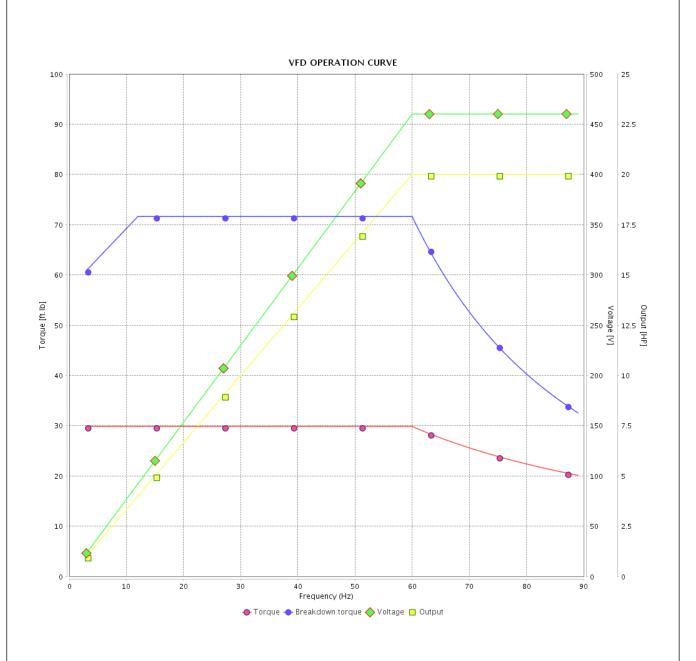


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 12092272

Catalog #: 02036ST3QIE256TC-W22



Performance	: 4	60 V 60 Hz 2P				
Rated current	: 2	: 23.2 A Moment of		of inertia (J)	: 1.54 sq.ft.lb	
LRC	: 6	.1	Duty cycle	9	: Cont.(S1)	
Rated torque	: 2	9.8 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	00 %	Service fa	ictor	: 1.25	
Breakdown torqu	e : 2	40 %	Temperati	ure rise	: 80 K	
Rated speed	: 3	520 rpm	Design		: B	
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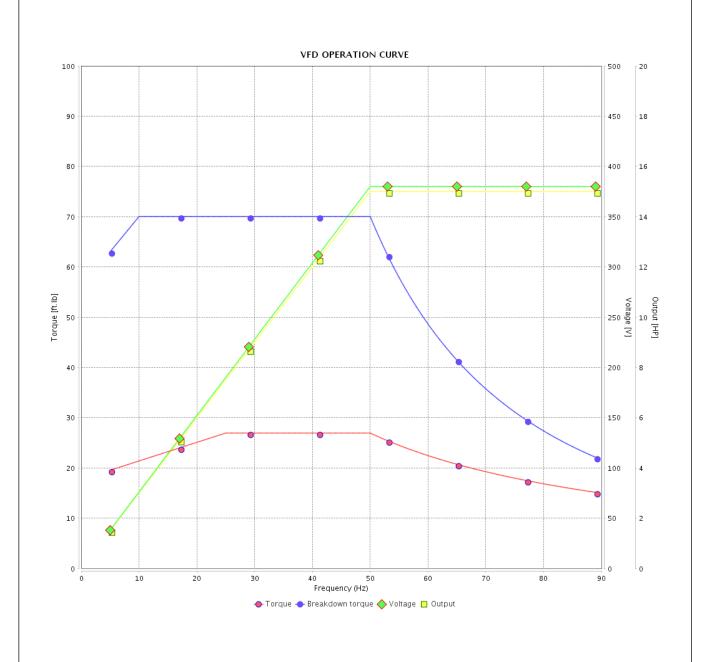
Customer

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12092272

Catalog #: 02036ST3QIE256TC-W22



Performance	: 38	80 V 50 Hz 2P IE3				
Rated current		0.4 A	0.4 A Moment of inertia (		: 1.54 sq.ft.lb	
LRC	: 6.	.9	Duty cycle	9	: Cont.(S1)	
Rated torque	: 20	6.9 ft.lb	Insulation	class	: F	
Locked rotor torq	jue : 22	20 %	Service fa	ictor	: 1.15	
Breakdown torqu	ie : 20	60 %	% Temperature rise		: 80 K	
Rated speed	: 29	925 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



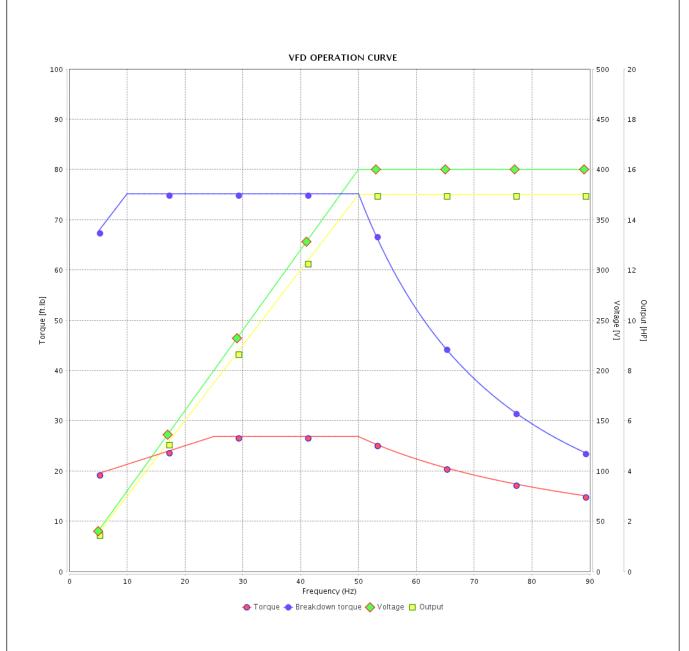
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12092272

Catalog #: 02036ST3QIE256TC-W22



Performance : 400 V 50 Hz 2P IE3 : 19.6 A Rated current Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 26.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2935 rpm Design : B Changes Summary Rev. Performed Checked Date

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This do	oumant is evaluative	property of MEC C/A Bopri	nting is not all	awad without writton	authorization of M/E	C C/A

#### Three Phase Induction Motor - Squirrel Cage

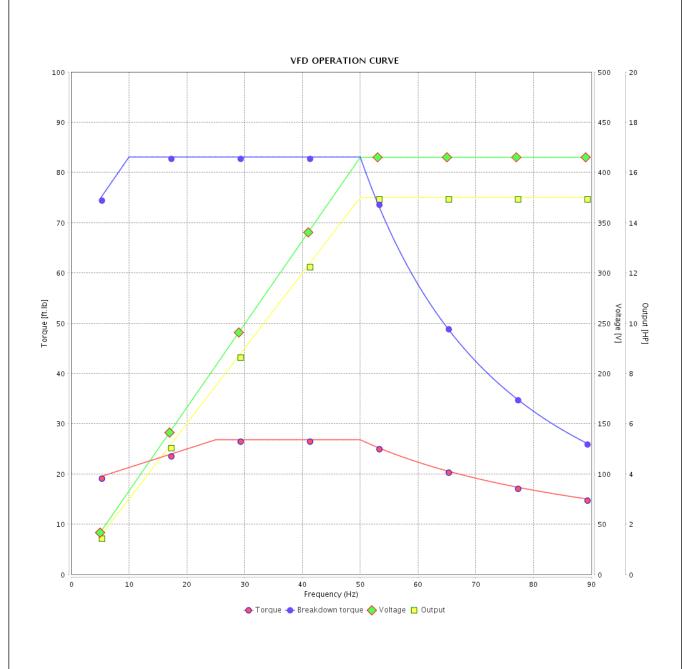


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12092272

Phase

Catalog #: 02036ST3QIE256TC-W22



Performance	:	415 V 50 Hz 2P IE3				
Rated current	:	19.1 A	Moment o	f inertia (J)	: 1.54 sq.ft.lb	
LRC	:	8.1	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	26.8 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	270 %	Service fa	ctor	: 1.15	
Breakdown torque	:	310 %	Temperati	ıre rise	: 80 K	
Rated speed	:	2940 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

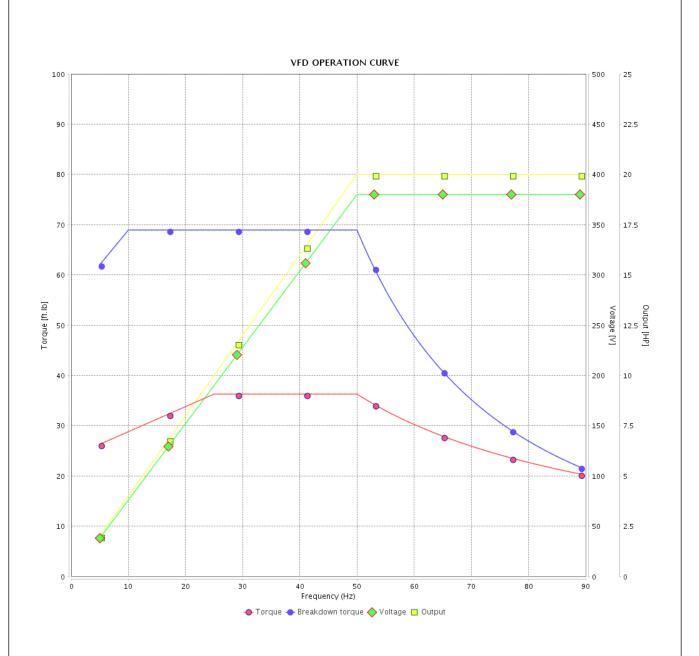
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02036ST3QIE256TC-W22

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12092272



D	. 200 \/ 50 \  - 0D				
Performance	: 380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.1 Duty cycle : 36.3 ft.lb Insulation class : torque : 160 % Service factor : 190 % Temperature rise		class ctor	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer

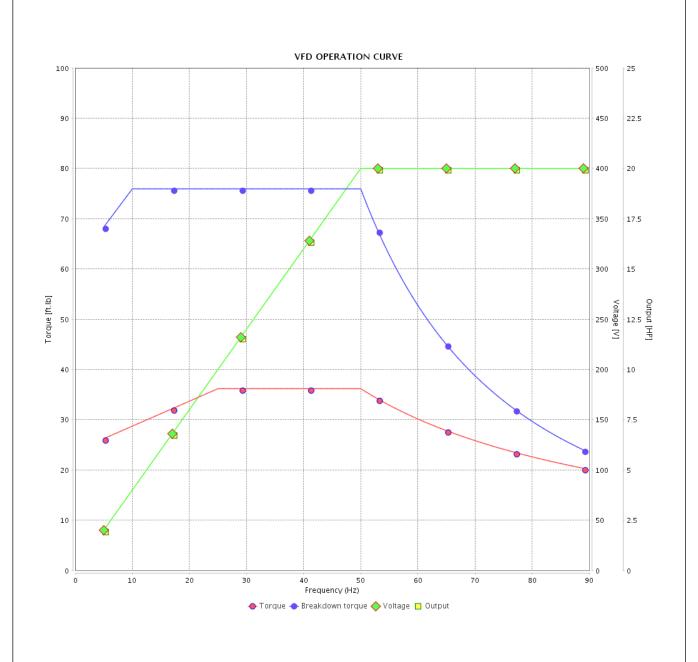
Product line : NEMA Premium Efficiency Three- Product code :

Phase

roduct code: 12092272

Catalog #: 02036ST3QIE256TC-W22

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Performance	: 400 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 27.2 A : 5.7 : 36.2 ft.lb : 180 % : 210 % : 2905 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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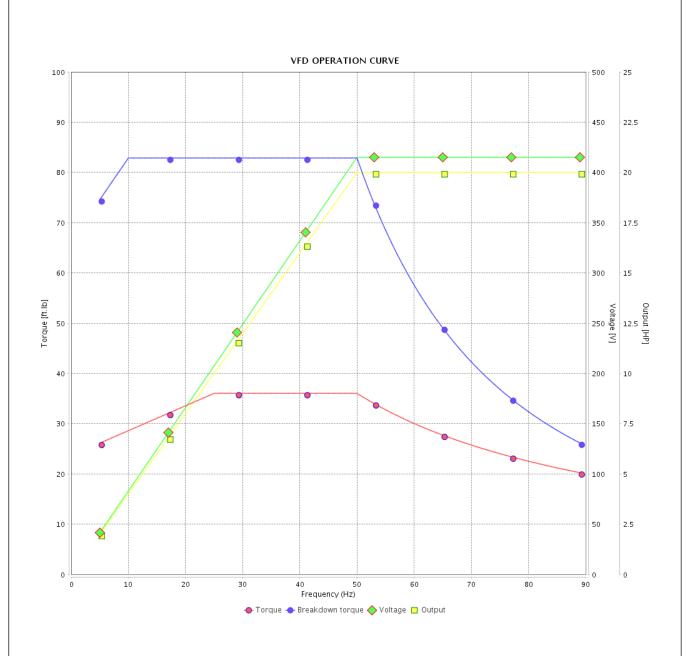
Date

14/04/2022

Product line : NEMA Premium Efficiency Three-

Product code: 12092272

Catalog #: 02036ST3QIE256TC-W22



Performance : 415 V 50 Hz 2P IE1 : 26.0 A Rated current Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 36.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 2915 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page

