DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11460176

Catalog #: 02018ST3QIE256TC-W22

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

Insulation class Mounting : F-1

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

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

Altitude · 1000 m a s l · 380 lb Approx. weight3

Aititude		: 1000 m.a.:	S.I.	Approx	t. weight"	: 3	di U8	
Protection degree	е	: IP55		Momer	nt of inertia (J)	: 3	.10 sq.ft.lb	
Design		: B						
Output [HP]		20	15	15	15	20	20	20
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]		24.1	21.8	21.2	20.6	29.4	28.0	27.1
L. R. Amperes [A]		166	161	167	173	168	174	179
LRC [A]		6.9x(Code H)	7.4x(Code H)	7.9x(Code J)	8.4x(Code K)	5.7x(Code F)	6.2x(Code G)	6.6x(Code H)
No load current [A]		9.60	9.90	10.5	11.0	9.90	10.5	11.0
Rated speed [RPN	1]	1770	1470	1475	1477	1455	1460	1465
Slip [%]		1.67	2.00	1.67	1.53	3.00	2.67	2.33
Rated torque [ft.lb]		59.3	53.6	53.4	53.3	72.2	71.9	71.7
Locked rotor torqu	e [%]	240	250	280	300	190	210	229
Breakdown torque	[%]	260	290	320	340	210	229	260
Service factor		1.25	1.00	1.00	1.00	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		54s (cold) 30s (hot)	59s (cold) 33s (hot)	55s (cold) 31s (hot)	52s (cold) 29s (hot)	39s (cold) 22s (hot)	37s (cold) 21s (hot)	36s (cold) 20s (hot)
Noise level ²		64.0 dB(A)	61.0 dB(A)					
	25%	91.0	90.9	89.2	89.2	92.3	90.8	90.8
Efficiency (0/)	50%	91.7	91.0	89.8	89.8	91.7	91.0	91.0
Efficiency (%)	75%	92.4	91.5	91.0	91.3	91.0	91.0	91.7
	100%	93.0	91.4	91.4	91.7	90.2	91.0	91.7
	25%	0.43	0.40	0.37	0.35	0.49	0.46	0.44
Power Factor	50%	0.68	0.65	0.62	0.60	0.75	0.72	0.70
Fower Factor	75%	0.79	0.78	0.75	0.73	0.83	0.81	0.80
	100%	0.84	0.84	0.82	0.81	0.86	0.85	0.84

Drive end

Non drive end Foundation loads

Bearing type Sealing Lubrication interval

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

Max. traction : 704 lb : 1084 lb Max. compression

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			1 / 36	

Three Phase Induction Motor - Squirrel Cage



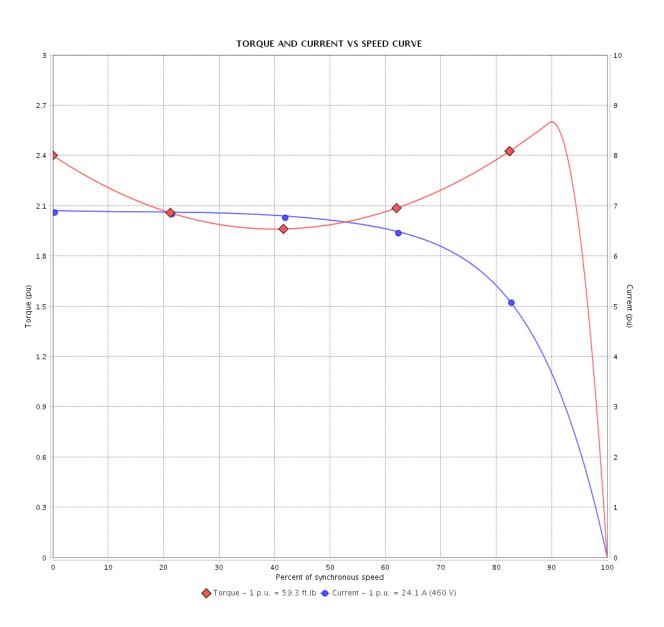
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11460176

Catalog #: 02018ST3QIE256TC-W22



Performance : 460 V 60 Hz 4P Rated current : 24.1 A Moment of inertia (J) : 3.10 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.3 ft.lb : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 54s (cold) 30s (hot)

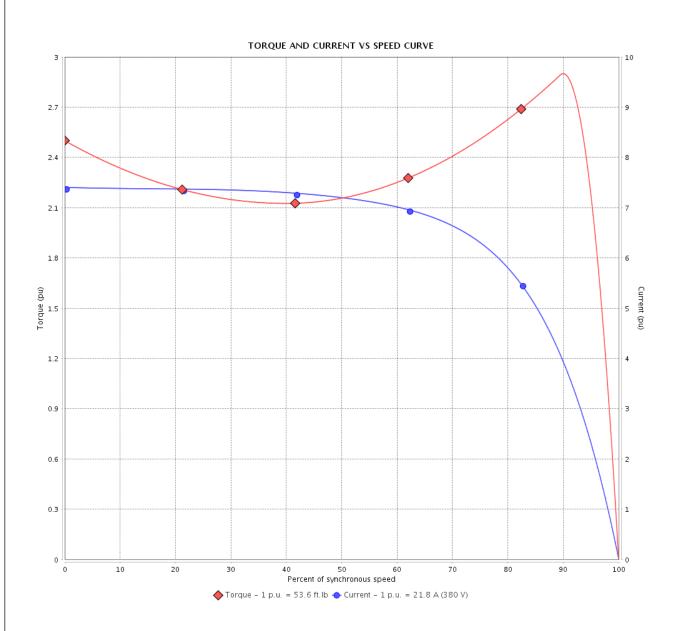
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2/36	

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11460176

> Catalog #: 02018ST3QIE256TC-W22



Performance : 380 V 50 Hz 4P IE3 Rated current : 21.8 A Moment of inertia (J) : 3.10 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 53.6 ft.lb Insulation class Rated torque : F : 250 % Locked rotor torque Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Locked rotor time

: 59s (cold) 33s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			3 / 36	

Three Phase Induction Motor - Squirrel Cage

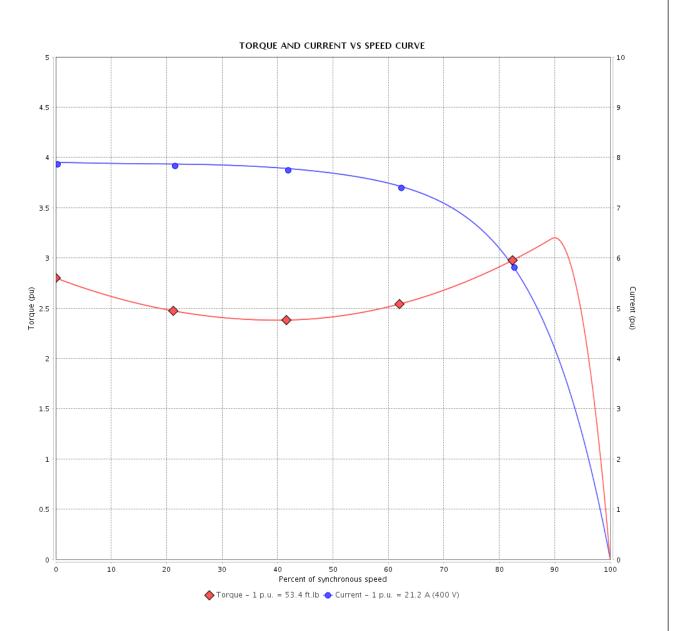


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11460176

Phase

Catalog #: 02018ST3QIE256TC-W22



Performance	: 400 V 50 Hz 4P IE3			
Rated current	: 21.2 A	Moment of inertia (J)	: 3.10 sq.ft.lb	
LRC	: 7.9	Duty cycle	: Cont.(S1)	
Rated torque	: 53.4 ft.lb	Insulation class	: F	
Locked rotor torque	: 280 %	Service factor	: 1.00	
Breakdown torque	: 320 %	Temperature rise	: 80 K	
Rated speed	: 1475 rpm	Design	: B	
Locked rotor time	: 55s (cold) 31s (hot)			

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			4 / 36	



Revision

Page

5/36

Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11460176 Catalog #: 02018ST3QIE256TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 53.3 ft.lb ◆ Current - 1 p.u. = 20.6 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 20.6 A Moment of inertia (J) : 3.10 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) : 53.3 ft.lb Insulation class Rated torque : F : 300 % Locked rotor torque Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1477 rpm Design : B Locked rotor time : 52s (cold) 29s (hot) Date Rev. Performed Checked **Changes Summary** Performed by

Checked by

Date

14/04/2022

Three Phase Induction Motor - Squirrel Cage



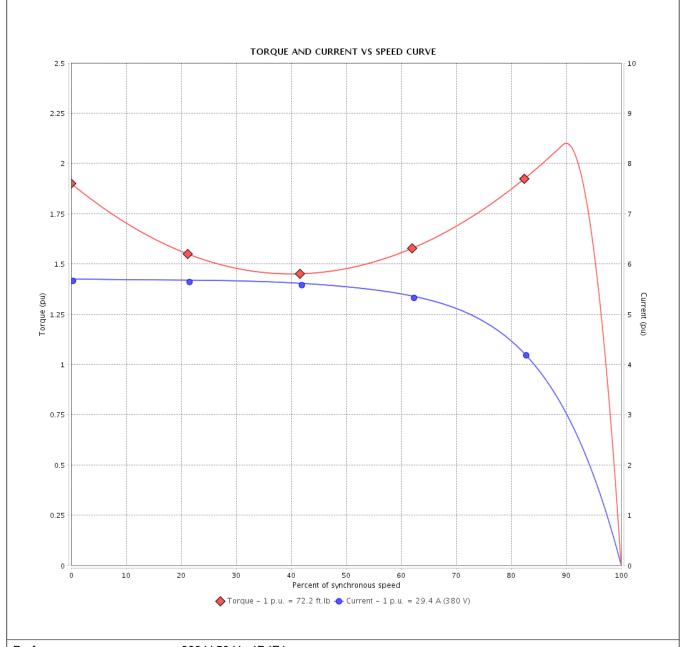
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11460176

Catalog #: 02018ST3QIE256TC-W22



Performance : 380 V 50 Hz 4P IE1 Rated current : 29.4 A Moment of inertia (J) : 3.10 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 72.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 190 % : 1.00 Breakdown torque : 210 % Temperature rise : 105 K

Locked rotor time : 39s (cold) 22s (hot)

: 1455 rpm

Rated speed

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			6 / 36	

Design

: B

Three Phase Induction Motor - Squirrel Cage

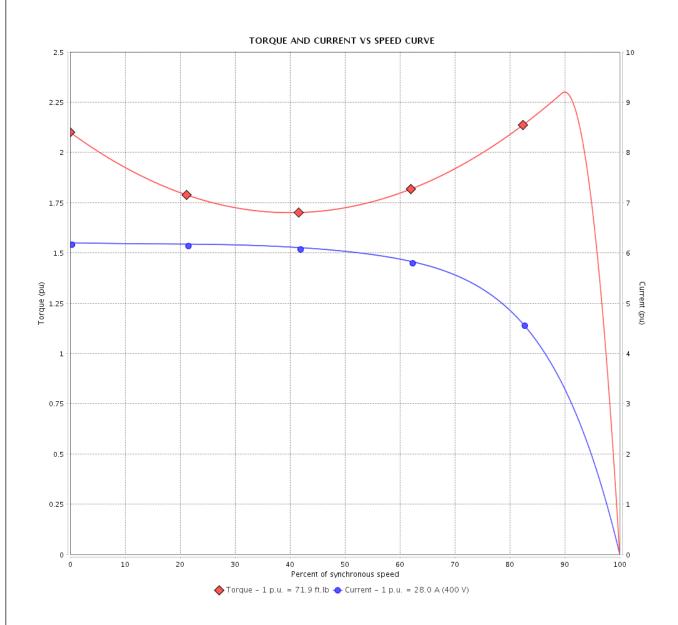


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Product line : NEMA Premium Efficiency Three- Product code : 11460176

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Catalog #: 02018ST3QIE256TC-W22



: 400 V 50 Hz 4P IE2			
: 28.0 A	Moment of inertia (J)	: 3.10 sq.ft.lb	
: 6.2	Duty cycle	: Cont.(S1)	
: 71.9 ft.lb	Insulation class	:F	
: 210 %	Service factor	: 1.00	
: 229 %	Temperature rise	: 105 K	
: 1460 rpm	Design	: B	
	: 28.0 A : 6.2 : 71.9 ft.lb : 210 % : 229 %	: 28.0 A Moment of inertia (J) : 6.2 Duty cycle : 71.9 ft.lb Insulation class : 210 % Service factor : 229 % Temperature rise	: 28.0 A Moment of inertia (J) : 3.10 sq.ft.lb : 6.2 Duty cycle : Cont.(S1) : 71.9 ft.lb Insulation class : F : 210 % Service factor : 1.00 : 229 % Temperature rise : 105 K

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

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			7 / 36	

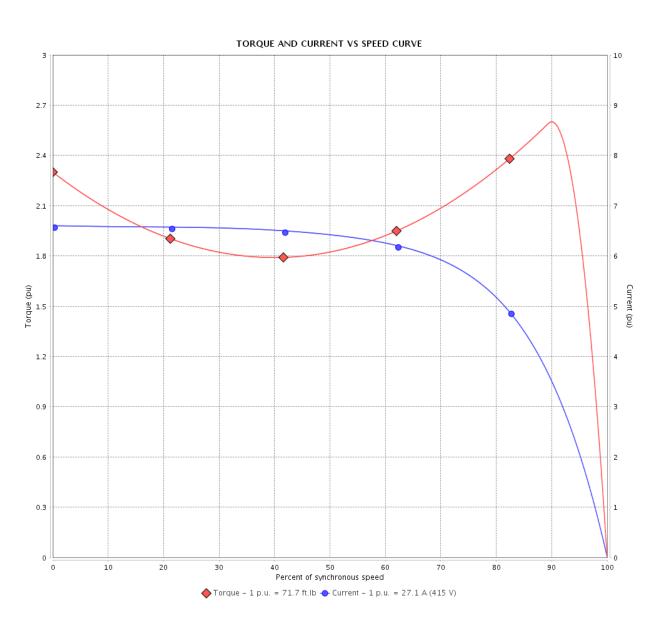
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11460176

Catalog #: 02018ST3QIE256TC-W22



Performance : 415 V 50 Hz 4P IE2 Rated current : 27.1 A Moment of inertia (J) : 3.10 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 71.7 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 1465 rpm Design : B Locked rotor time : 36s (cold) 20s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			8 / 36	

Three Phase Induction Motor - Squirrel Cage



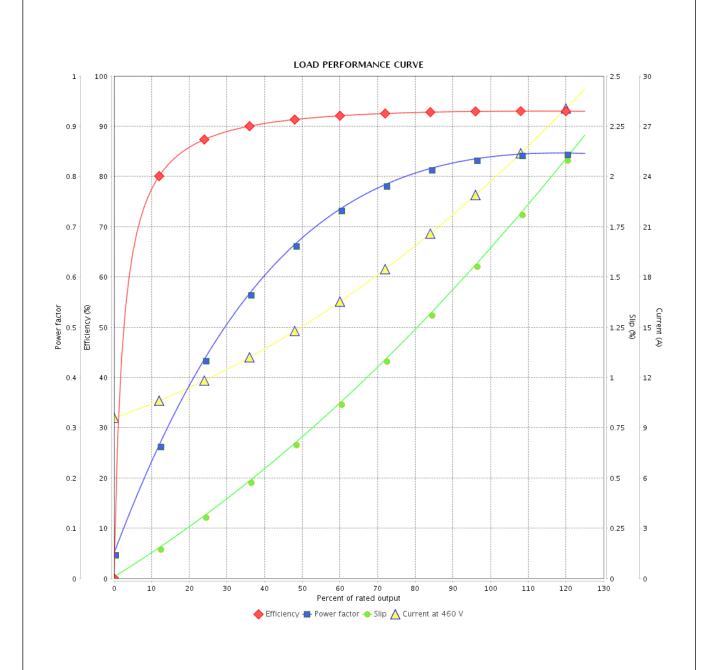
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11460176

Phase

Catalog #: 02018ST3QIE256TC-W22

9/36



Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 24.1 A : 6.9 : 59.3 ft.lb : 240 % : 260 % : 1770 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 3.10 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

14/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



Revision

Page

10/36

Customer :

Checked by

Date

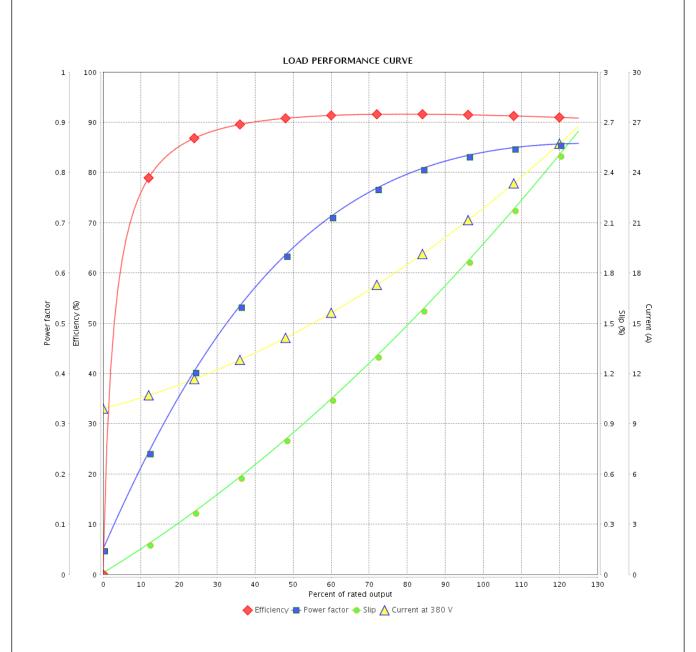
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 02018ST3QIE256TC-W22

11460176



Performance : 380 V 50 Hz 4P IE3 Rated current : 21.8 A Moment of inertia (J) : 3.10 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 53.6 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

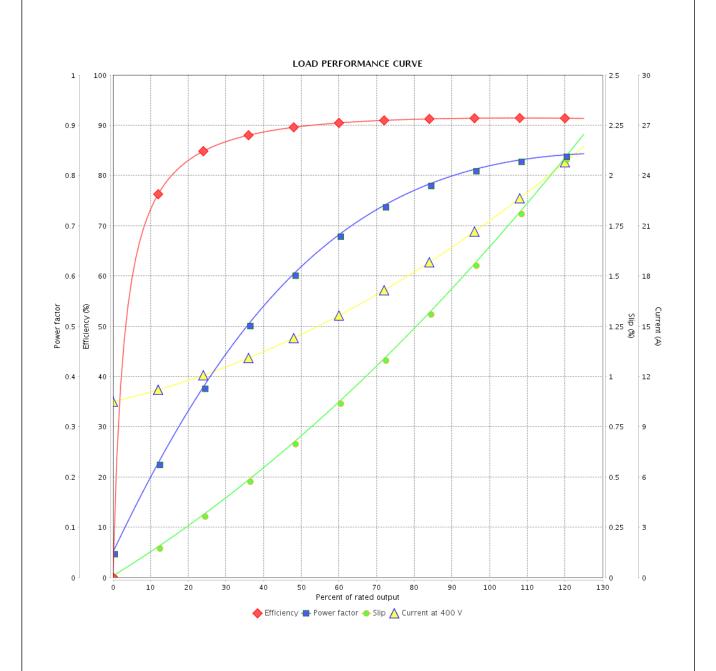


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11460176

Phase

Catalog #: 02018ST3QIE256TC-W22



Performance	: 4	100 V 50 Hz 4P IE3				
Rated current	: 2	21.2 A	Moment o	f inertia (J)	: 3.10 sq.ft.lb	
LRC	: 7	7.9	Duty cycle	}	: Cont.(S1)	
Rated torque	: 5	53.4 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	280 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	320 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	475 rpm	Design		: B	
Rev.		Changes Summary	<u>'</u>	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				11 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

14/04/2022

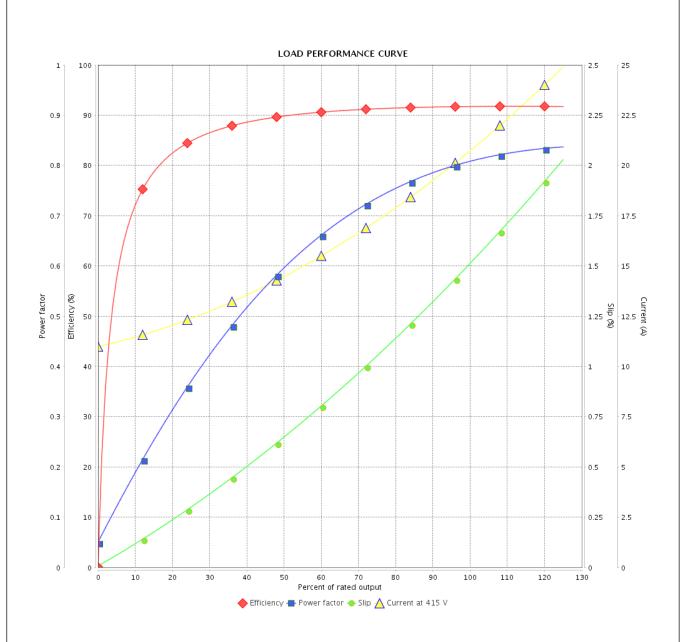
Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 11460176

Catalog #: 02018ST3QIE256TC-W22

12/36



Performance : 415 V 50 Hz 4P IE3 : 20.6 A Rated current Moment of inertia (J) : 3.10 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) : 53.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 300 % Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1477 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage

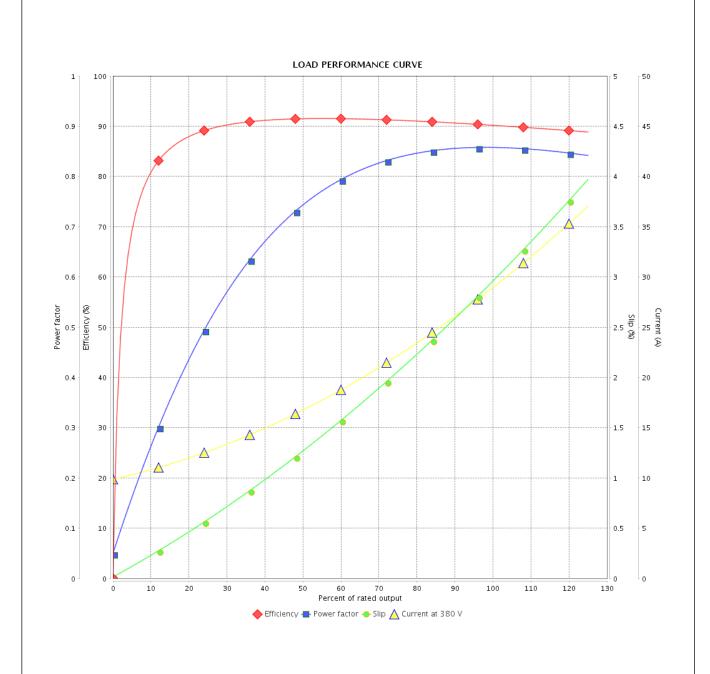


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11460176

Phase

Catalog #: 02018ST3QIE256TC-W22



Performance	:	380 V 50 Hz 4P IE1				
Rated current		29.4 A	Moment o	f inertia (J)	: 3.10 sq.ft.lb	
LRC	:	5.7	Duty cycle)	: Cont.(S1)	
Rated torque	:	72.2 ft.lb	Insulation	class	: F	
Locked rotor torque : 190 %		190 %	Service fa	ctor	: 1.00	
Breakdown torque	:	210 %	Temperature rise		: 105 K	
Rated speed	: 1455 rpm		Design	Design		
Rev.		Changes Summary	- I	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				13 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

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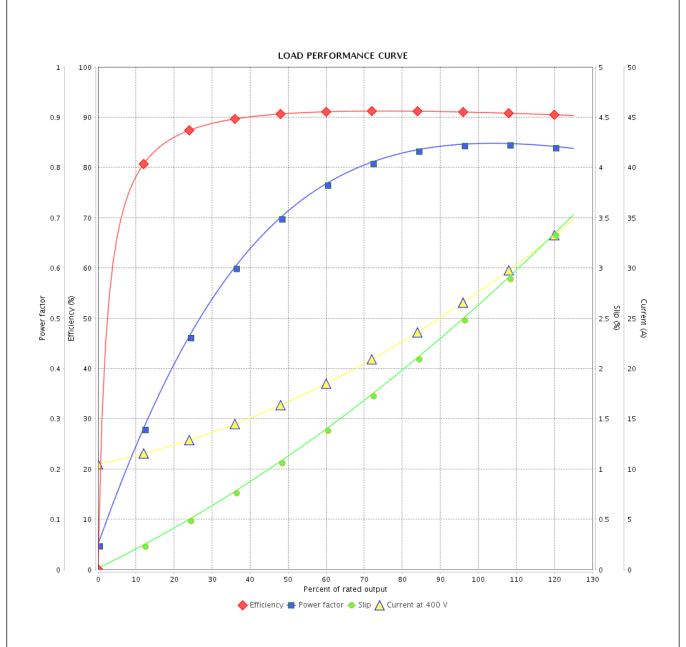
Catalog #: 02018ST3QIE256TC-W22

Page

14/36

Revision

11460176



Performance : 400 V 50 Hz 4P IE2 : 28.0 A Rated current Moment of inertia (J) : 3.10 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.2 : 71.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

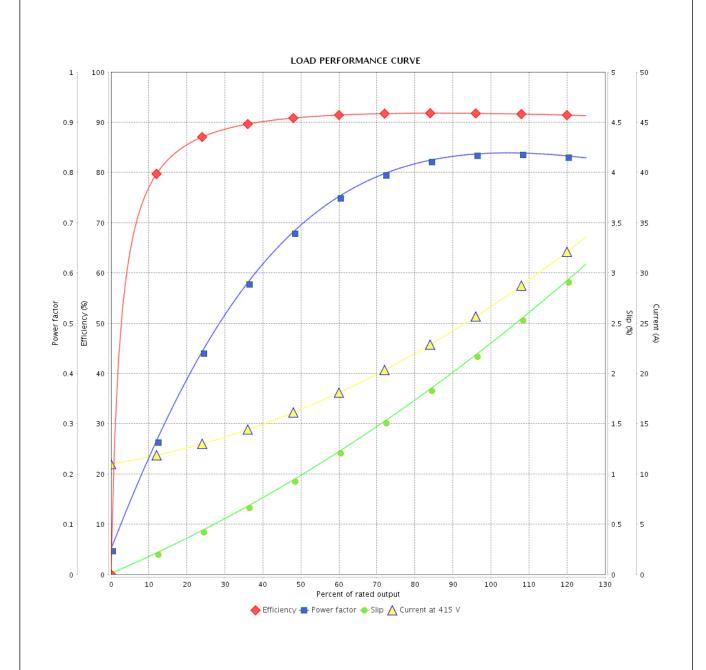


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11460176

Phase

Catalog #: 02018ST3QIE256TC-W22



Performance	:	415 V 50 Hz 4P IE2				
Rated current	:	27.1 A	Moment o	f inertia (J)	: 3.10 sq.ft.lb	
LRC	:	6.6	Duty cycle)	: Cont.(S1)	
Rated torque	:	71.7 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	229 %	Service fa	ctor	: 1.00	
Breakdown torque	:	260 %	Temperature rise		: 105 K	
Rated speed	: 1465 rpm		Design	Design		
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				15 / 36	

Three Phase Induction Motor - Squirrel Cage

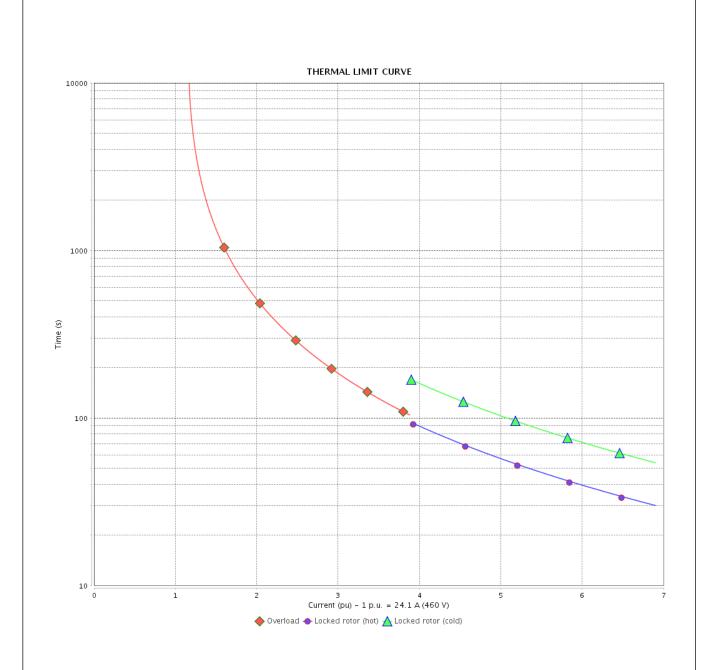


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	11460176 02018ST3QIE	256TC-W22
Performance	: 460 V 60 Hz 4P				
Rated current	: 24.1 A	Moment o	f inertia (J)	: 3.10 sq.ft.lb	
LRC Rated torque	: 6.9 : 59.3 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torque	: 240 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed	: 260 % : 1770 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant	- r				
Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
Performed by				_	_
Checked by				Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			17 / 36	

Three Phase Induction Motor - Squirrel Cage

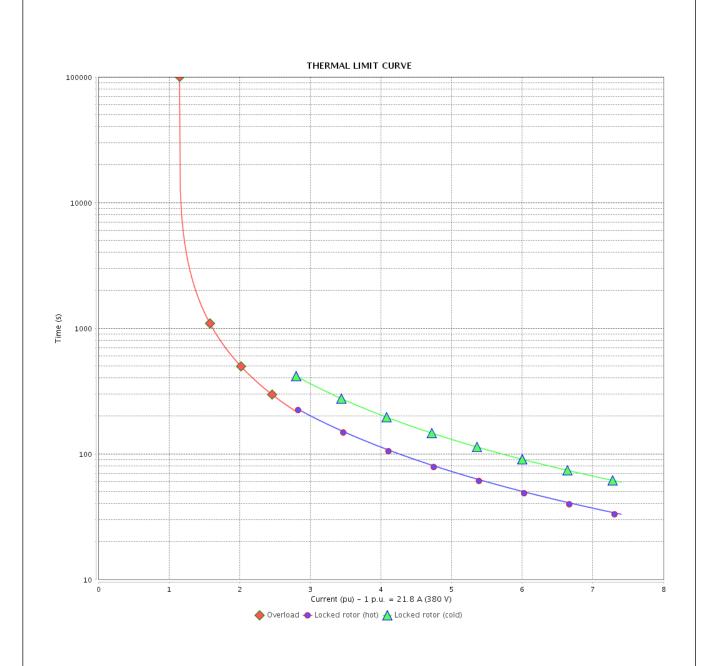


Customer	:				
Product line	: NEMA Premium Efficiency Phase		ct code :	11460176	25CTC W22
		Catalo	g # : 	02018ST3QIE	2501C-VV22
Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 21.8 A	Moment of inertia	a (J)	: 3.10 sq.ft.lb	
LRC Rated torque	: 7.4 : 53.6 ft.lb	Duty cycle Insulation class		: Cont.(S1) : F	
Locked rotor torque	: 250 %	Service factor		: 1.00	
Breakdown torque	: 290 % : 1470 rpm	Temperature rise)	: 80 K	
Rated speed	: 1470 rpm	Design		: B	
Heating constant					
Cooling constant	Chan Com		wf a was1	Ob a alice al	D-4-
Rev.	Changes Summary	Pei	rformed	Checked	Date
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Performed by				Page	Revision
Checked by	222			Page	UCAISIO[]

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			19 / 36	

Three Phase Induction Motor - Squirrel Cage

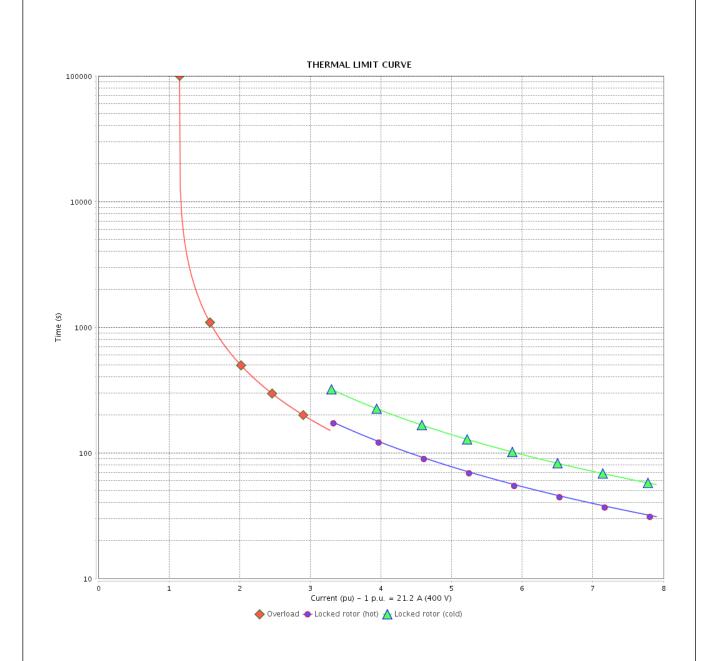


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	11460176	
1 Toddot iii ic		Phase				
				Catalog # :	02018ST3QIE	256TC-W22
Performance		: 400 V 50 Hz 4P IE3	,			
Rated current		: 21.2 A	Moment of	of inertia (J)	: 3.10 sq.ft.lb	
LRC		: 7.9	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor torque		: 53.4 ft.lb : 280 %	Insulation Service fa		: F : 1.00	
Breakdown torque	e	: 320 %	Temperat		: 80 K	
Rated speed		: 1475 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Dorformed by						
Performed by					Dogo	Revision
Checked by	14/04/2022				Page 20 / 36	1/0/1910[]

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			21 / 36	

Three Phase Induction Motor - Squirrel Cage

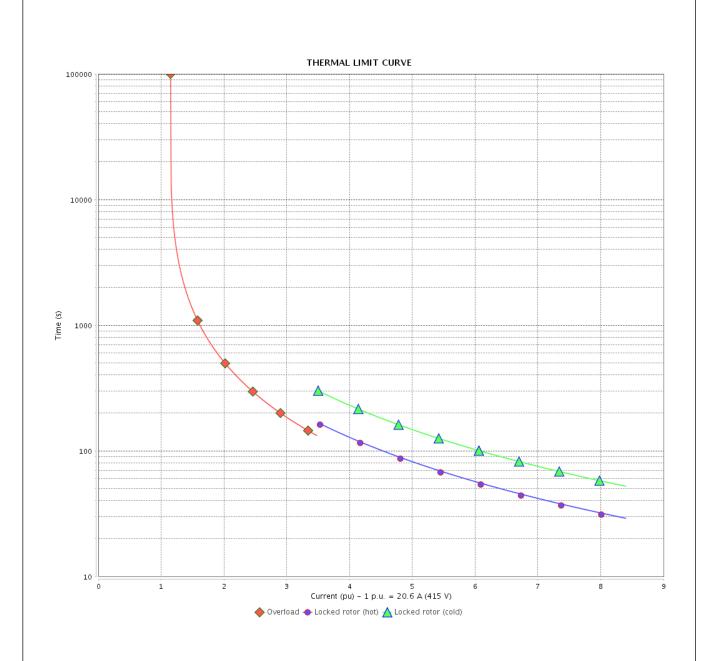


Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	11460176	
	Phase		Catalog # :	02018ST3QIE	SOERTO MASS
			Catalog # .	02016313QIE	22010-7722
Performance	: 415 V 50 Hz 4P IE3	Monasia	finantic (I)	1 2 40 ac # II-	
Rated current LRC	: 20.6 A : 8.4	Moment o Duty cycle	f inertia (J)	: 3.10 sq.ft.lb : Cont.(S1)	
Rated torque	: 53.3 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 300 % : 340 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed	: 1477 rpm	Design		: B	
Heating constant					
Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
Performed by				5	D
Checked by	22			Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			23 / 36	

Three Phase Induction Motor - Squirrel Cage

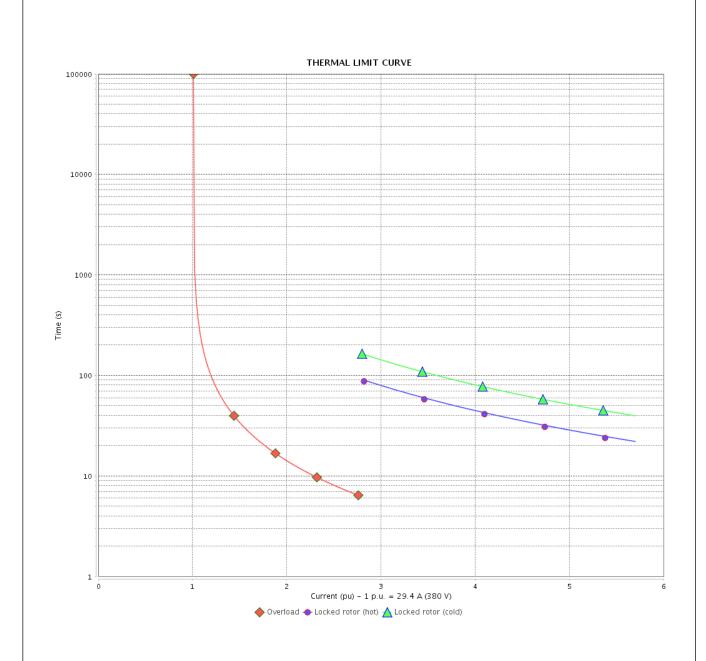


Customer	:				
Product line	: NEMA Premium Efficie Phase		Product code : Catalog # :	11460176 02018ST3QII	E256TC-W22
Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC	: 29.4 A : 5.7	Duty cycle	of inertia (J)	: 3.10 sq.ft.lb : Cont.(S1)	
Rated torque	: 72.2 ft.lb : 190 %	Insulation Service fa	class	: F : 1.00	
Locked rotor torque Breakdown torque	: 210 %	Temperati		: 105 K	
Rated speed	: 1455 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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Performed by			ı		
Checked by				Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			25 / 36	

Three Phase Induction Motor - Squirrel Cage

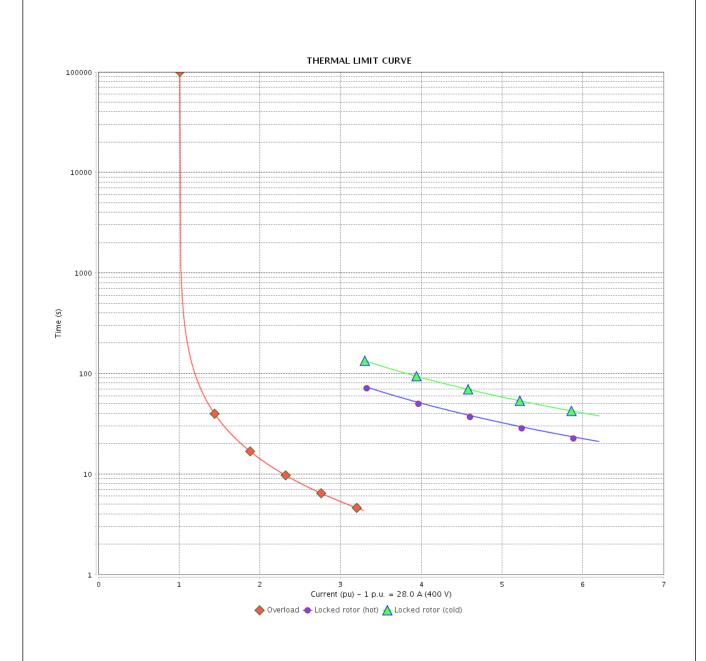


Customer	:				
Product line	: NEMA Premium Efficiend Phase		Product code : Catalog # :	11460176 02018ST3QI	E256TC-W22
Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 28.0 A : 6.2 : 71.9 ft.lb : 210 % : 229 % : 1460 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 3.10 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
Performed by Checked by			I	Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			27 / 36	

Three Phase Induction Motor - Squirrel Cage

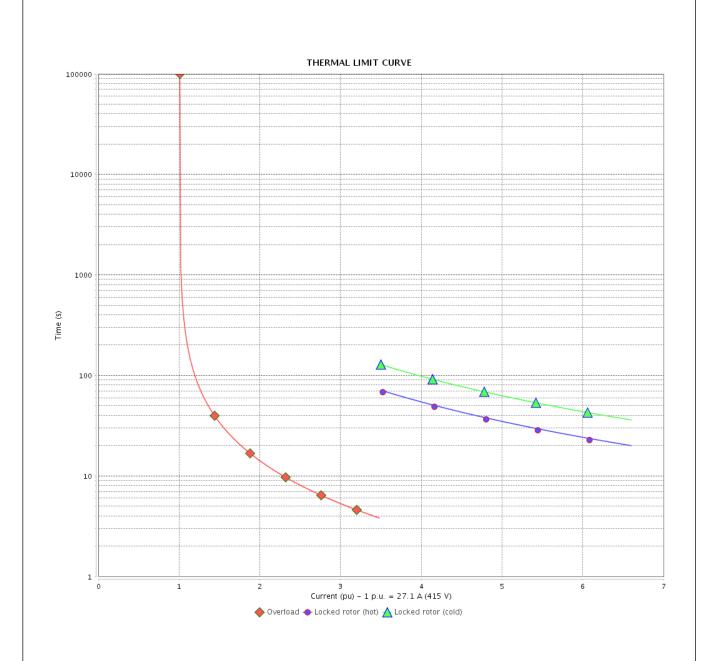


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11460176 02018ST3QIE	:256TC-W22
					20010 W22
Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 27.1 A : 6.6 : 71.7 ft.lb : 229 % : 260 % : 1465 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 3.10 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
Performed by Checked by	/04/2022			Page 28 / 36	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary		Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			29 / 36	

Three Phase Induction Motor - Squirrel Cage



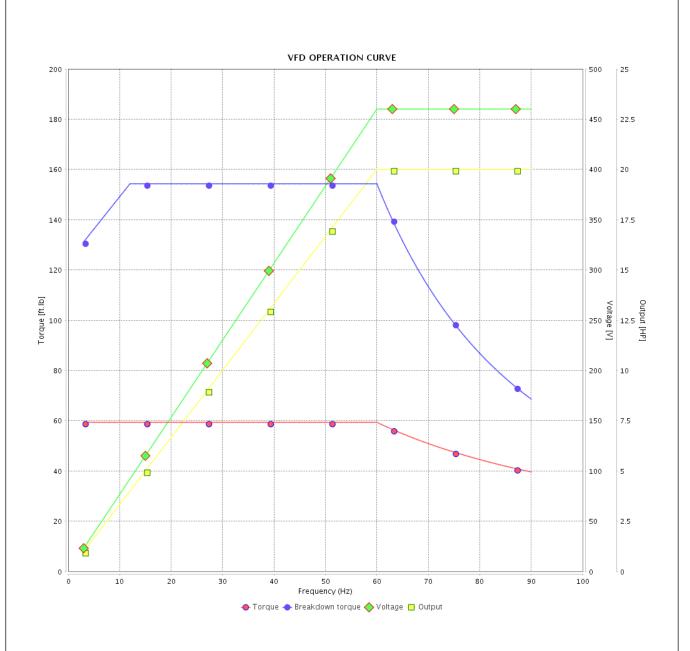
Customer :

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 11460176

Catalog #: 02018ST3QIE256TC-W22



Performance : 460 V 60 Hz 4P Rated current : 24.1 A Moment of inertia (J) : 3.10 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : 59.3 ft.lb Insulation class : F Rated torque Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			30 / 36	

Three Phase Induction Motor - Squirrel Cage



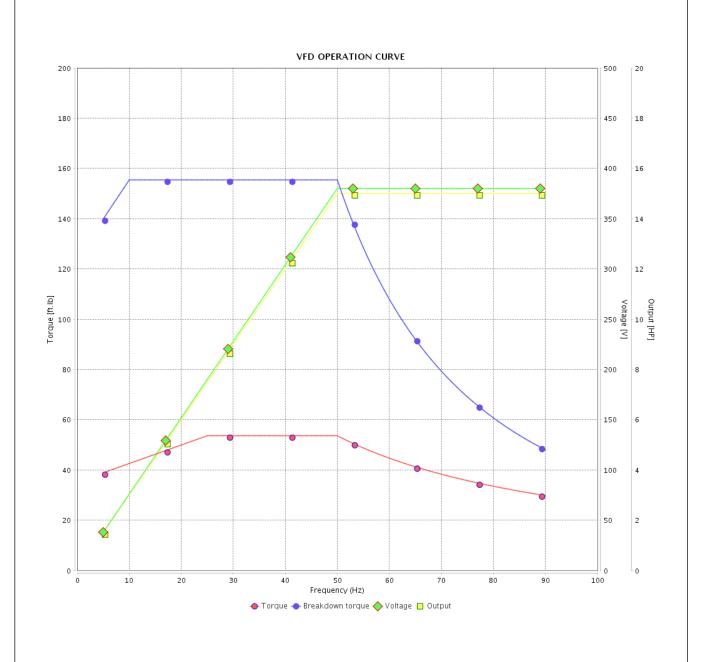
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Product line : NEMA Premium Efficiency Three- Product code : 11460176

Phase

Catalog #: 02018ST3QIE256TC-W22

31 / 36



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.8 A : 7.4 : 53.6 ft.lb : 250 % : 290 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.10 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	Perform	med	Checked	Date
Performed by					
Checked by				Page	Revision

14/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

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Product line : NEMA Premium Efficiency Three-

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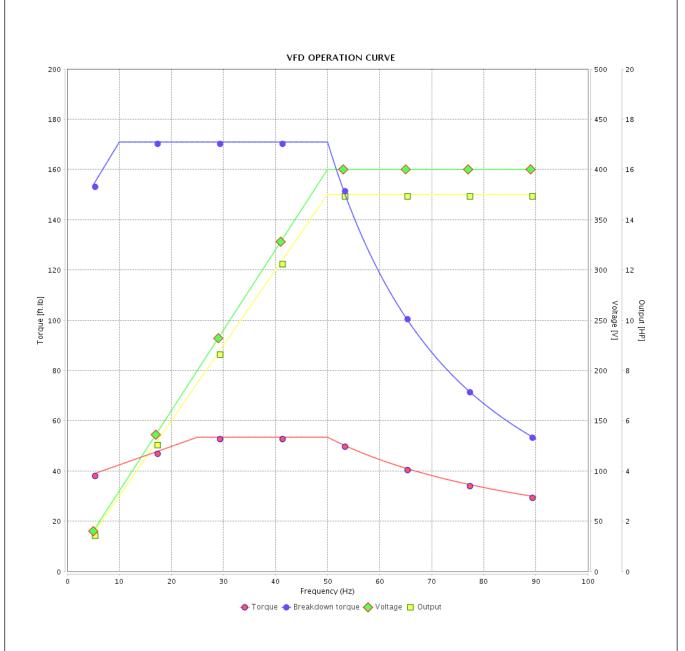
Product code: 11460176

Catalog #: 02018ST3QIE256TC-W22

Page

32 / 36

Revision



Performance		: 400 V 50 Hz 4P I	E3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 21.2 A : 7.9 : 53.4 ft.lb : 280 % : 320 % : 1475 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 3.10 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

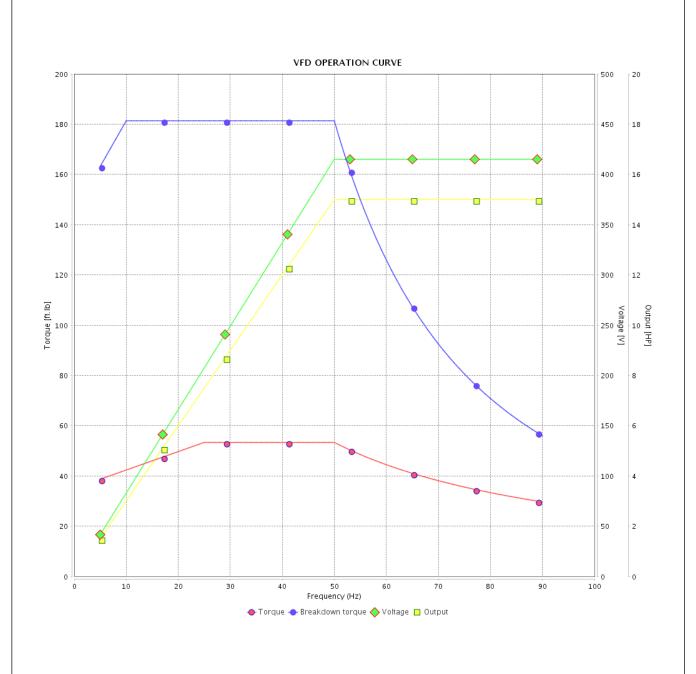


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11460176

Phase

Catalog #: 02018ST3QIE256TC-W22



Performance	: •	415 V 50 Hz 4P IE3				
Rated current	::	20.6 A	.6 A Moment of inertia (J)		: 3.10 sq.ft.lb	
LRC	: :	8.4	Duty cycle	;	: Cont.(S1)	
Rated torque	::	53.3 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie :	300 %	Service fa	ctor	: 1.00	
Breakdown torque	::	340 %	Temperati	ure rise	: 80 K	
Rated speed	:	1477 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				33 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

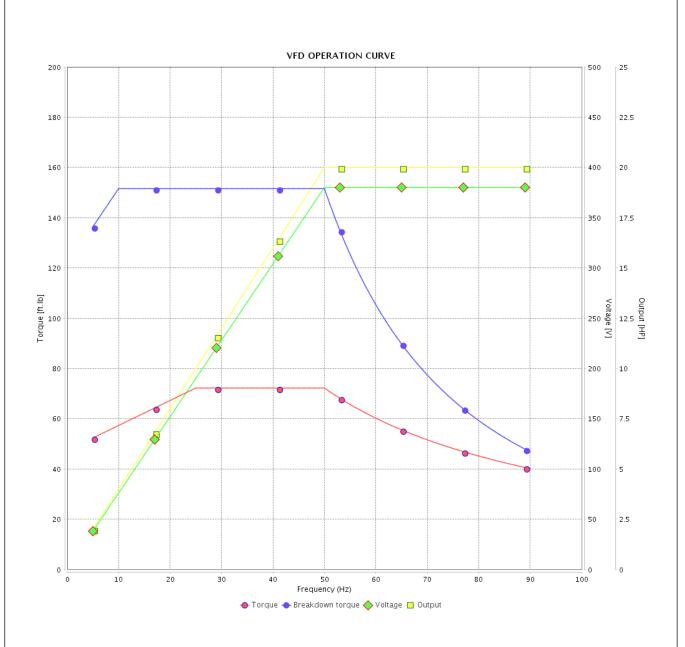
Product code: 11460176

Catalog #: 02018ST3QIE256TC-W22

Page

34 / 36

Revision



Performance : 380 V 50 Hz 4P IE1 Rated current : 29.4 A Moment of inertia (J) : 3.10 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 72.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

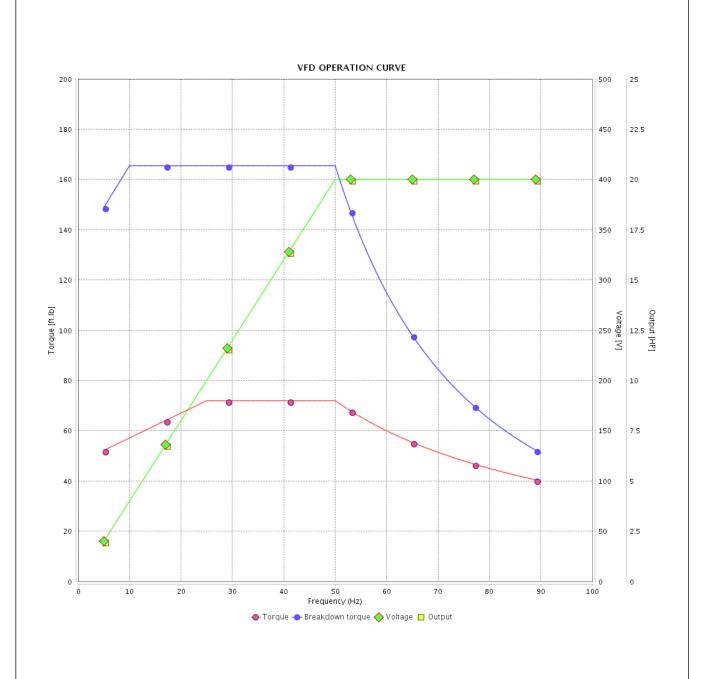


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11460176

Phase

Catalog #: 02018ST3QIE256TC-W22



Performance		400 V 50 Hz 4P IE2				
Rated current	:	28.0 A	.0 A Moment of inertia (J)		: 3.10 sq.ft.lb	
LRC	:	6.2	Duty cycle	;	: Cont.(S1)	
Rated torque		71.9 ft.lb	Insulation	Insulation class		
Locked rotor tord	que :	210 %	Service fa	ctor	: 1.00	
Breakdown torqu	ue :	229 %	Temperati	ure rise	: 105 K	
Rated speed	:	1460 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				35 / 36	

Three Phase Induction Motor - Squirrel Cage



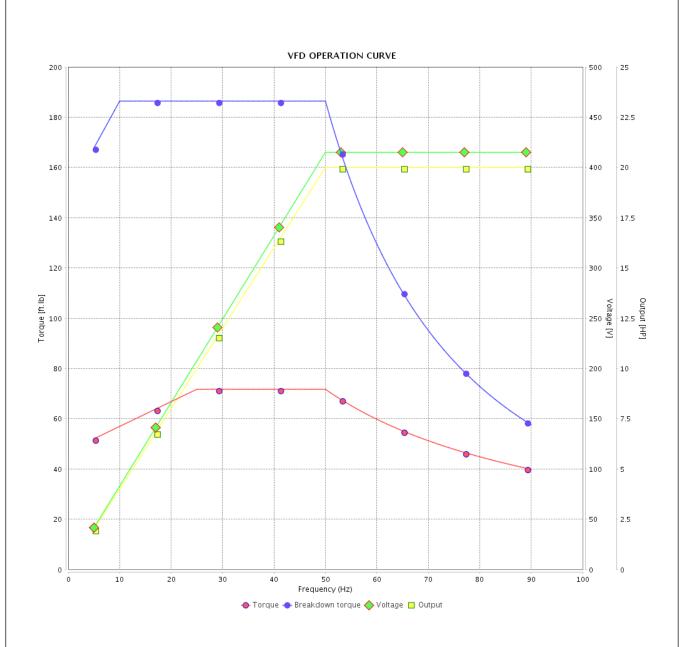
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11460176

Catalog #: 02018ST3QIE256TC-W22



Performance : 415 V 50 Hz 4P IE2 : 27.1 A Rated current Moment of inertia (J) : 3.10 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class Rated torque : 71.7 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 1465 rpm Design : B

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			36 / 36	

