DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12373843

Phase

Catalog #: 00336ST3QIE182TC-W22

Frame : 182/4TC Cooling method : IC411 - TEFC

Insulation class : F 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 : 1000 m.a.s.l. Approx. weight³ : 95.9 lb

Ailliude		. 1000 III.a.	S.I.		. weignt		D.9 ID	
Protection degre	е	: IP55		Momer	nt of inertia (J) : C	.1889 sq.ft.lb	
Design		: B						
Output [HP]		3	2	2	2	3	3	3
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]		3.63	3.09	3.00	2.96	4.34	4.17	4.07
L. R. Amperes [A]		31.2	29.7	32.1	32.9	29.5	31.7	33.0
LRC [A]		8.6x(Code K)	9.6x(Code L)	10.7x(Code	11.1x(Code	6.8x(Code H)	7.6x(Code J)	8.1x(Code J)
				M)	N)			
No load current [A	.]	1.30	1.25	1.35	1.40	1.25	1.35	1.40
Rated speed [RPN	Л]	3510	2930	2935	2940	2880	2890	2900
Slip [%]		2.50	2.33	2.17	2.00	4.00	3.67	3.33
Rated torque [ft.lb]]	4.49	3.58	3.58	3.57	5.47	5.45	5.43
Locked rotor torqu	ie [%]	250	300	340	370	210	240	260
Breakdown torque	: [%]	380	430	480	520	290	320	350
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		73s (cold)	54s (cold)	54s (cold)	54s (cold)	54s (cold)	54s (cold)	54s (cold)
		41s (hot)	30s (hot)	30s (hot)	30s (hot)	30s (hot)	30s (hot)	30s (hot)
Noise level ²		66.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)
	25%	82.0	79.5	79.1	77.8	84.4	84.4	84.4
Efficiency (%)	50%	82.5	81.0	80.6	79.7	84.0	84.0	84.0
Efficiency (70)	75%	86.5	84.5	84.5	84.1	86.5	86.5	86.5
	100%	86.5	85.8	85.8	85.9	85.5	85.5	85.5
	25%	0.50	0.44	0.41	0.39	0.56	0.52	0.50
Power Factor	50%	0.75	0.68	0.65	0.63	0.80	0.77	0.75
FUWEI FACIOI	75%	0.84	0.79	0.77	0.75	0.87	0.86	0.84
	100%	0.88	0.86	0.84	0.82	0.90	0.89	0.88

<u>Drive end</u> <u>Non drive end</u> Foundation loads

20000 h

Bearing type : 6207 C3 6206 C3 Max. traction : 73 lb Sealing : Inpro/Seal Inpro/Seal Max. compression : 169 lb

20000 h

Lubricant amount : 7 g 5 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.

Lubrication interval

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	13/04/2022			1 / 36	

Three Phase Induction Motor - Squirrel Cage



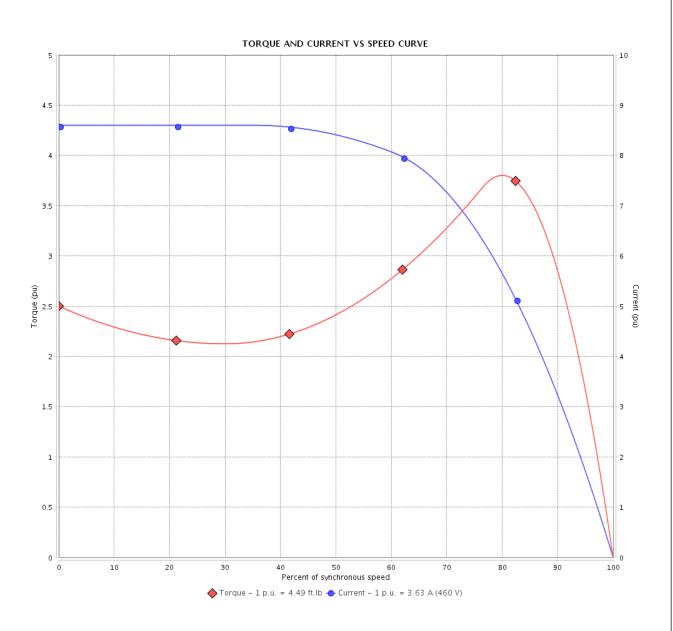
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 12373843

Catalog #: 00336ST3QIE182TC-W22



Performance : 460 V 60 Hz 2P Rated current : 3.63 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** : 8.6 Duty cycle : Cont.(S1) : F : 4.49 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 250 % : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 3510 rpm Design : B

Locked rotor time : 73s (cold) 41s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2/36	



Revision

Page

3/36

Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12373843 Catalog #: 00336ST3QIE182TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 3.58 ft.lb ◆ Current - 1 p.u. = 3.09 A (380 V) Performance : 380 V 50 Hz 2P IE3 Rated current : 3.09 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** : 9.6 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 3.58 ft.lb : 300 % Locked rotor torque Service factor : 1.25 Breakdown torque : 430 % Temperature rise : 80 K Rated speed : 2930 rpm Design : B Locked rotor time : 54s (cold) 30s (hot) Date Rev. Performed Checked **Changes Summary**

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Date

13/04/2022

Three Phase Induction Motor - Squirrel Cage

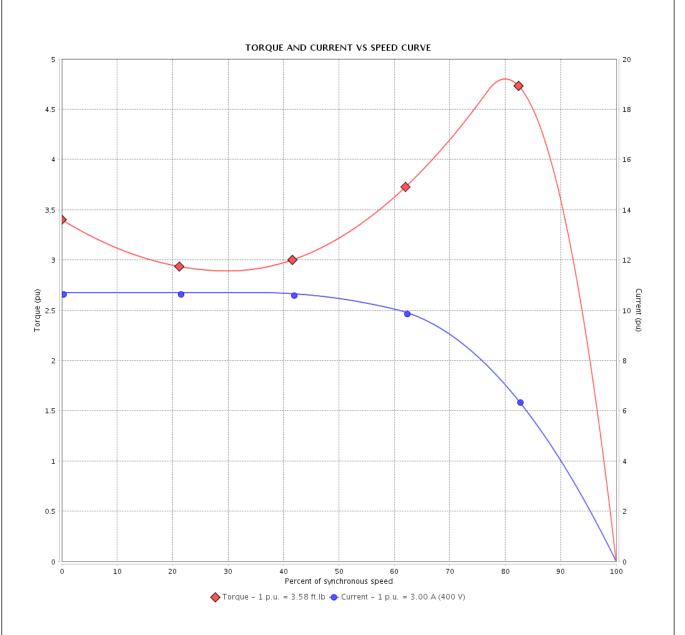


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00336ST3QIE182TC-W22

12373843



Performance : 400 V 50 Hz 2P IE3 Rated current : 3.00 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** : 10.7 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 3.58 ft.lb Service factor Locked rotor torque : 340 % : 1.25 Breakdown torque : 480 % Temperature rise : 80 K Rated speed : 2935 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			4 / 36	



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12373843 Catalog #: 00336ST3QIE182TC-W22 TORQUE AND CURRENT VS SPEED CURVE

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6										
-			•		•					
5										
4							•		\	
3			\		♦					\-\\-\\
2										
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٥	10	20	3	30 4	o s Percent of syn	50 6	0 7	0 8	0 9	0 100

Performance	: 415 V 50 Hz 2P IE3		
Rated current	: 2.96 A	Moment of inertia (J)	: 0.1889 sq.ft.lb
LRC	: 11.1	Duty cycle	: Cont.(S1)
Rated torque	: 3.57 ft.lb	Insulation class	:F ` ´
Locked rotor torque	: 370 %	Service factor	: 1.25
Breakdown torque	: 520 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B
Locked rotor time	: 54s (cold) 30s (hot)		· · · · · · · · · · · · · · · · · · ·

Locked rotor time	e : 548 (COId) 308 (NOt)			
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	13/04/2022		5 / 36	

Three Phase Induction Motor - Squirrel Cage

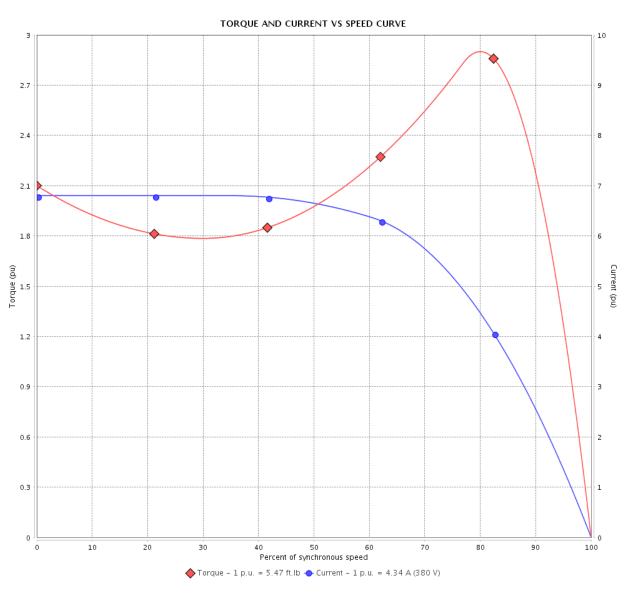


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12373843

Phase

Catalog # : 00336ST3QIE182TC-W22



Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.34 A : 6.8 : 5.47 ft.lb : 210 % : 290 % : 2880 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class tor	: 0.1889 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Locked rotor time	: 54s (cold) 30s (hot)	1			
Rev.	Changes Summary		Performed	Checked	Date

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			6 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12373843 Catalog #: 00336ST3QIE182TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5

Performance : 400 V 50 Hz 2P IE2 Rated current : 4.17 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 5.45 ft.lb Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 320 % Temperature rise : 80 K : B Rated speed : 2890 rpm Design

Percent of synchronous speed ◆ Torque - 1 p.u. = 5.45 ft.lb ◆ Current - 1 p.u. = 4.17 A (400 V)

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

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			7 / 36	

Three Phase Induction Motor - Squirrel Cage

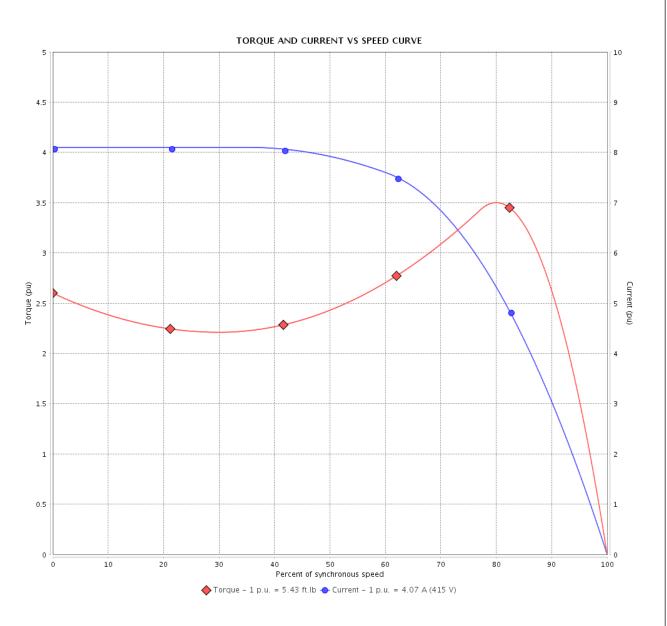


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12373843

Phase

Catalog #: 00336ST3QIE182TC-W22



Performance : 415 V 50 Hz 2P IE2 Rated current : 4.07 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** : 8.1 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 5.43 ft.lb Service factor Locked rotor torque : 260 % : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B Locked rotor time : 54s (cold) 30s (hot)

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Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			8 / 36	

Three Phase Induction Motor - Squirrel Cage



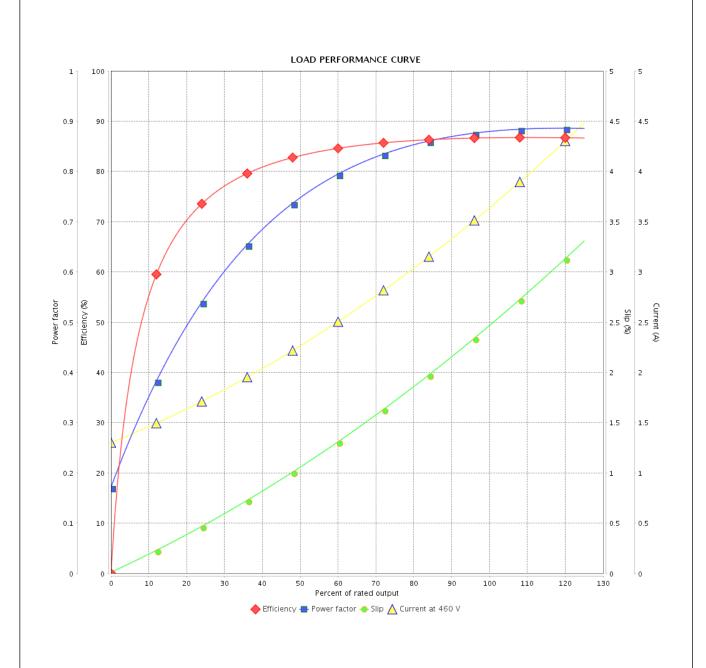
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12373843

Phase

Catalog #: 00336ST3QIE182TC-W22

9/36



Performance	: 460 V 60 Hz 2P				
Rated current	: 3.63 A	Moment of inertia	(J)	: 0.1889 sq.ft.	lb
LRC	: 8.6	Duty cycle	` '	: Cont.(S1)	
Rated torque	: 4.49 ft.lb	Insulation class		: F ` ´	
Locked rotor torque	: 250 %	Service factor		: 1.25	
Breakdown torque	: 380 %	Temperature rise		: 80 K	
Rated speed	: 3510 rpm	Design		: B	
Rev.	Changes Summary	Peri	formed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



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Checked by

Date

13/04/2022

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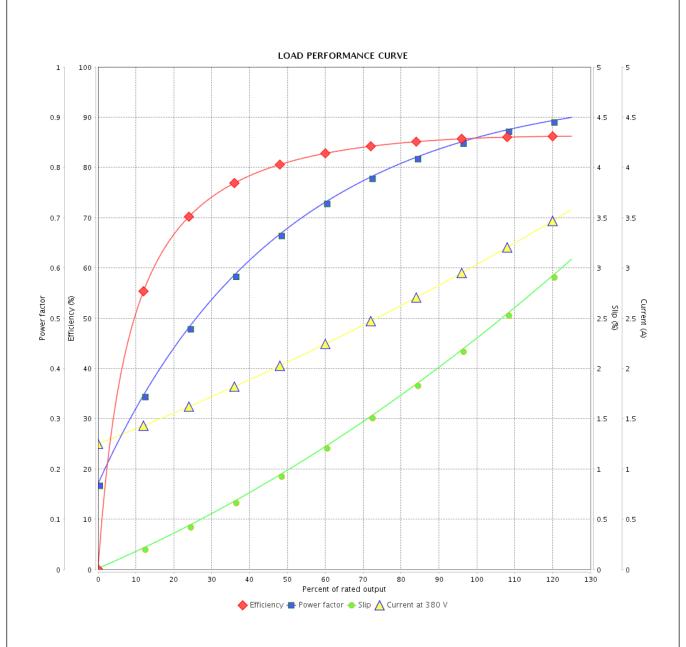
Product code: 12373843

Catalog #: 00336ST3QIE182TC-W22

Page

10/36

Revision



Performance : 380 V 50 Hz 2P IE3 Rated current : 3.09 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 9.6 : 3.58 ft.lb Insulation class Rated torque : F Locked rotor torque : 300 % Service factor : 1.25 Breakdown torque : 430 % Temperature rise : 80 K Rated speed : 2930 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

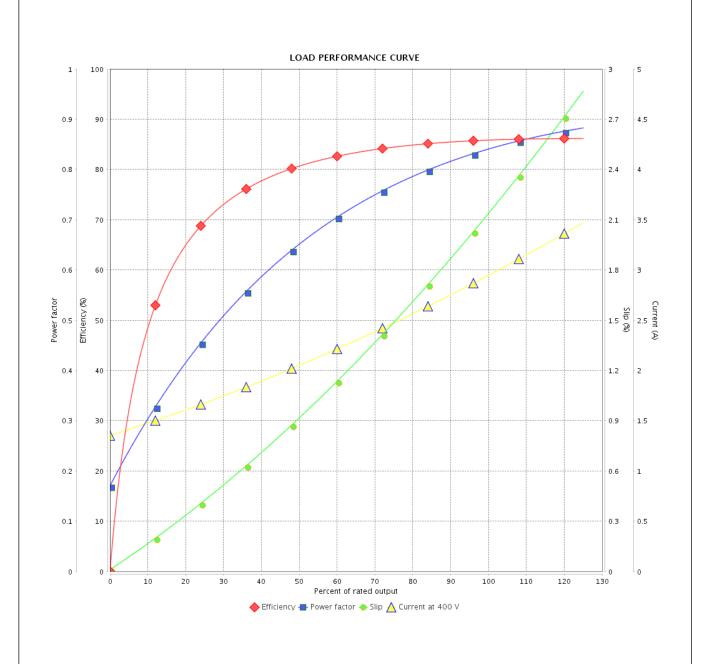


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12373843

Phase

Catalog #: 00336ST3QIE182TC-W22



Performance	. 2	100 V 50 Hz 2P IE3				
Rated current		3.00 A		f inertia (J)	: 0.1889 sq.ft.	lh
LRC		10.7	Duty cycle	` '	: Cont.(S1)	.iib
Rated torque		3.58 ft.lb	Insulation		: F	
Locked rotor torqu		340 %	Service fa		: 1.25	
Breakdown torque		180 %	Temperati	ıre rise	: 80 K	
Rated speed		2935 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by		_			Page	Revision
Date	13/04/2022				11 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

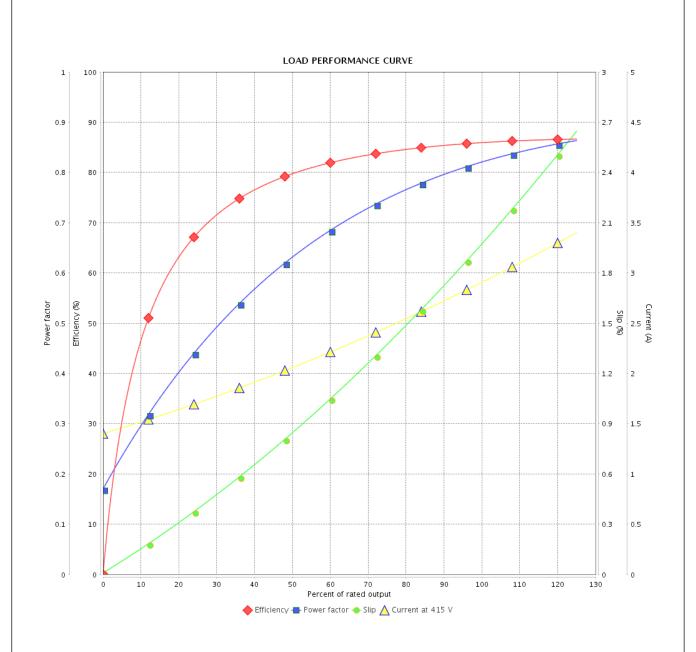
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 00336ST3QIE182TC-W22

12/36

12373843



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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque	: 2.96 A : 11.1 : 3.57 ft.lb	Moment of inertia (J) Duty cycle Insulation class		: 0.1889 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	: 370 % : 520 % : 2940 rpm	Service factor Temperature rise Design		: 1.25 : 80 K : B	
Rev.	Changes Summary	Per	formed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

Date

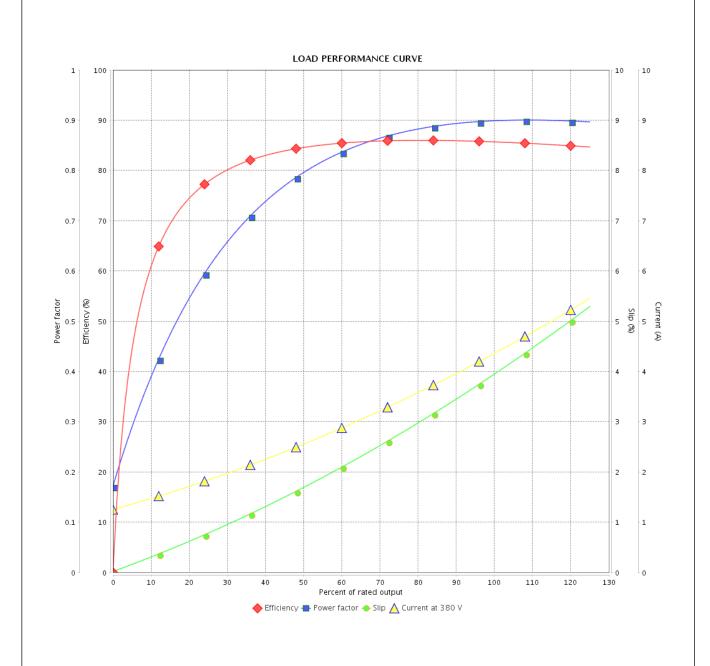
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12373843

Catalog #: 00336ST3QIE182TC-W22



Performance	: 3	80 V 50 Hz 2P IE2				
Rated current	: 4	.34 A	Moment o	of inertia (J)	: 0.1889 sq.ft.	lb
LRC	: 6	.8	Duty cycle	•	: Cont.(S1)	
Rated torque	: 5	.47 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	10 %	Service fa	ictor	: 1.25	
Breakdown torque	: 2	90 %	Temperati	ure rise	: 80 K	
Rated speed	: 2	880 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
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Performed by						
Checked by					Page	Revision
Date	13/04/2022				13 / 36	

Three Phase Induction Motor - Squirrel Cage



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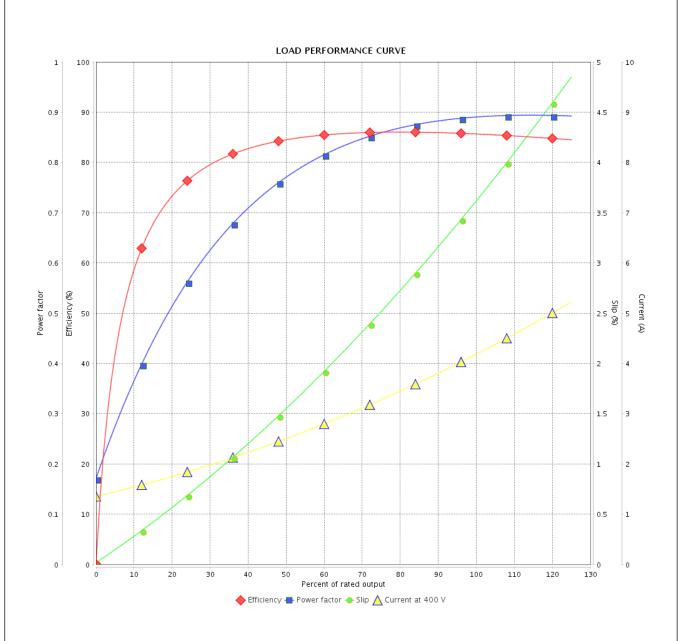
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 12373843

Catalog #: 00336ST3QIE182TC-W22

14/36



Performance	: 400 V 50 Hz 2P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.17 A : 7.6 : 5.45 ft.lb : 240 % : 320 % : 2890 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1889 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	lb
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

13/04/2022

Date

Three Phase Induction Motor - Squirrel Cage

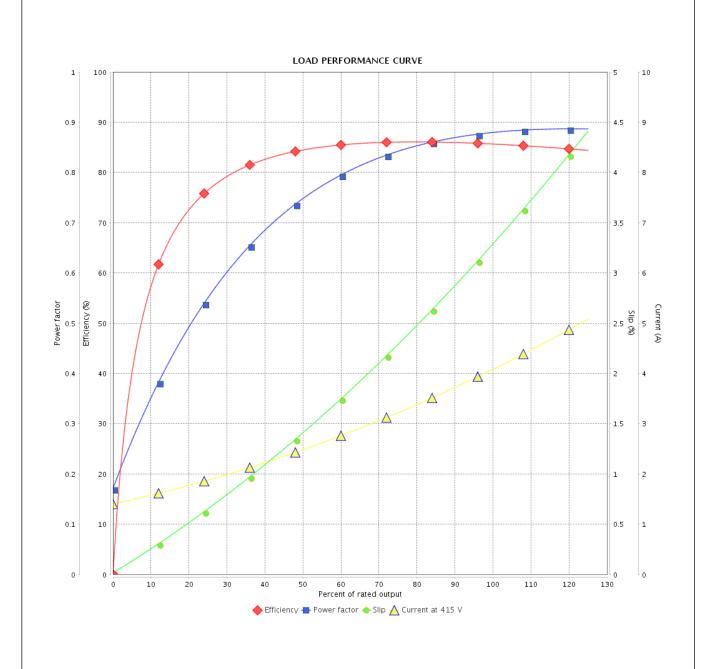


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12373843

Phase

Catalog #: 00336ST3QIE182TC-W22



Performance	:	415 V 50 Hz 2P IE2				
Rated current	:	4.07 A	Moment o	f inertia (J)	: 0.1889 sq.ft.	lb
LRC	:	8.1	Duty cycle	;	: Cont.(S1)	
Rated torque	:	5.43 ft.lb	Insulation	class	: F	
Locked rotor torque	:	260 %	Service fa	ctor	: 1.25	
Breakdown torque	:	350 %	Temperati	ıre rise	: 80 K	
Rated speed	:	2900 rpm	Design		: B	
Rev.		Changes Summary	<u>'</u>	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Data	13/04/2022				15 / 36	

Three Phase Induction Motor - Squirrel Cage

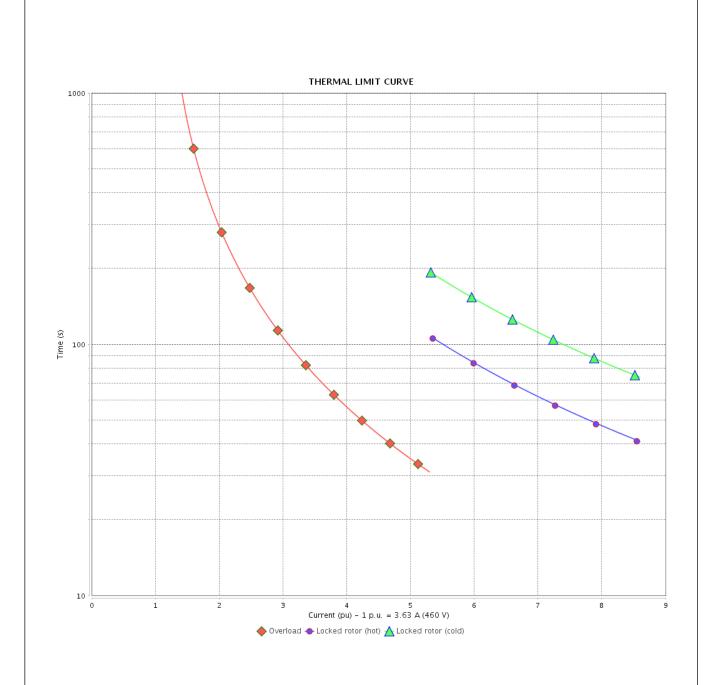


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12373843 00336ST3QII	E182TC-W22
Performance		: 460 V 60 Hz 2P	Managara	finantia (I)	. 0 4000 0 !!	
Rated current LRC		: 3.63 A : 8.6	Duty cycle		: 0.1889 sq.ft.ll : Cont.(S1)	0
Rated torque		: 4.49 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 250 % : 380 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 3510 rpm	Design		: B	
Heating constant						
Cooling constant	l .	Changes Summers		Performed	Checked	Doto
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Performed by					I	
Checked by					Page	Revision
Date	13/04/2022				16 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			17 / 36	

Three Phase Induction Motor - Squirrel Cage

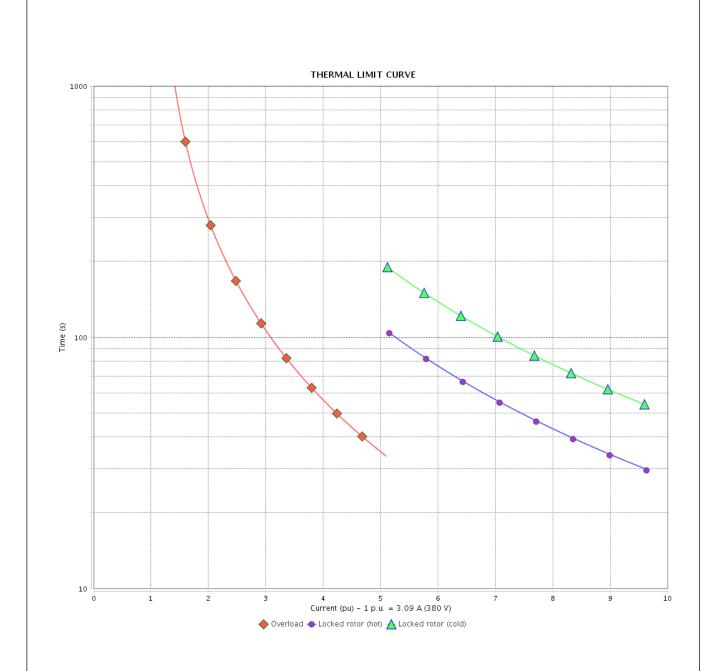


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Product line		: NEMA Premium Efficiency	Three-	Product code :	12373843	
1 Toddet IIIIe		Phase				
				Catalog # :	00336ST3QI	E182TC-W22
Performance		: 380 V 50 Hz 2P IE3	N4	6	0.1000	L
Rated current LRC		: 3.09 A : 9.6	Moment of Duty cycle	of inertia (J)	: 0.1889 sq.ft.l : Cont.(S1)	b
Rated torque		: 3.58 ft.lb	Insulation	class	: F	
Locked rotor tord		: 300 %	Service fa		: 1.25	
Breakdown torqu Rated speed		: 430 % : 2930 rpm	Temperati Design	ure rise	: 80 K : B	
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Rev.		Changes Summary		Perioritiea	Спескеа	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				18 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			19 / 36	

Three Phase Induction Motor - Squirrel Cage

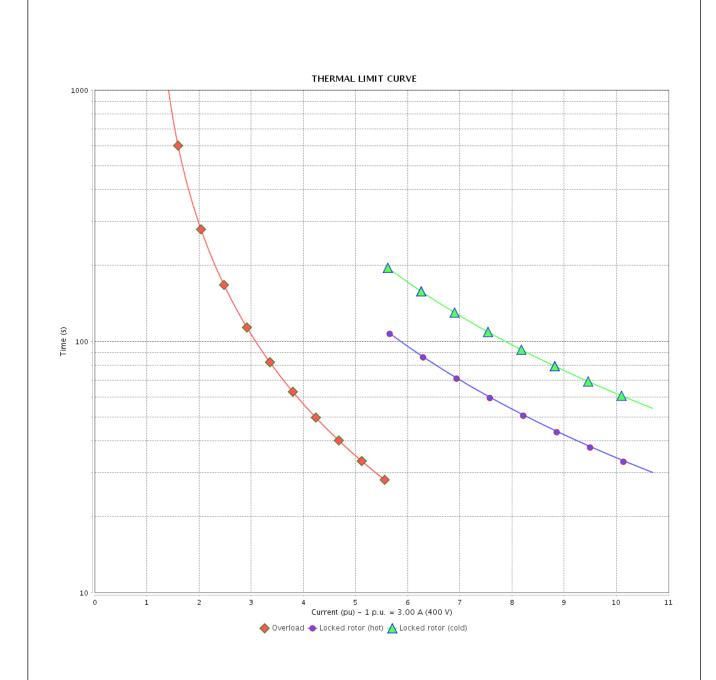


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Product line		: NEMA Premium Efficiency Phase	inree-	Product code :	12373843	
				Catalog # :	00336ST3QIE	182TC-W22
Performance	:	400 V 50 Hz 2P IE3				
Rated current		3.00 A	Moment of	of inertia (J)	: 0.1889 sq.ft.lb)
LRC Rated torque		10.7 3.58 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	340 %	Service fa	actor	: 1.25	
Breakdown torqu Rated speed		480 % 2935 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant Cooling constant						
Rev.	-	Changes Summary		Performed	Checked	Date
		<u> </u>				
Performed by						
Checked by					Page	Revision
Date	13/04/2022				20 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			I		
Checked by				Page	Revision
Date	13/04/2022	-		21 / 36	

Three Phase Induction Motor - Squirrel Cage

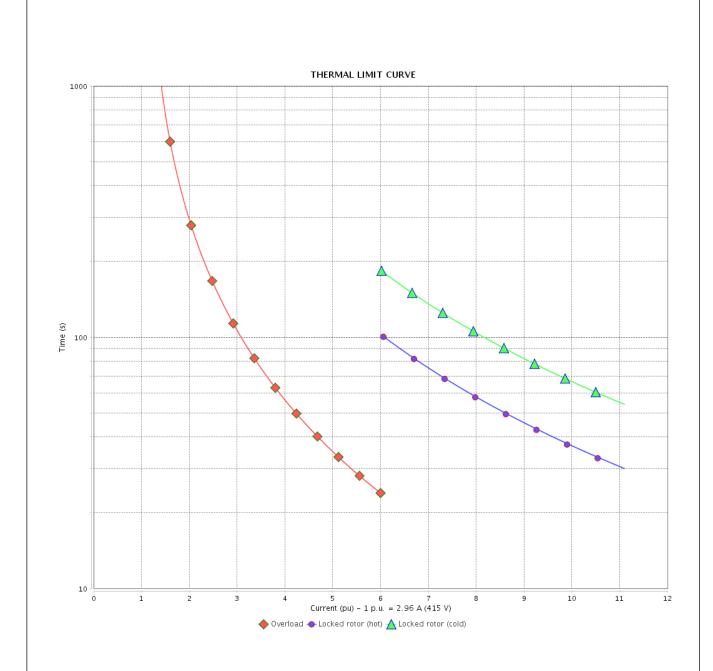


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12373843 00336ST3QII	E182TC-W22
Performance	:	415 V 50 Hz 2P IE3				
Rated current LRC	:	2.96 A 11.1	Duty cycle		: 0.1889 sq.ft.ll : Cont.(S1))
Rated torque Locked rotor torq		3.57 ft.lb 370 %	Insulation Service fa		: F : 1.25	
Breakdown torqu Rated speed	ie :	520 % 2940 rpm	Temperati Design		: 80 K : B	
Heating constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by	13/04/2022				Page 22 / 36	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			23 / 36	

Three Phase Induction Motor - Squirrel Cage

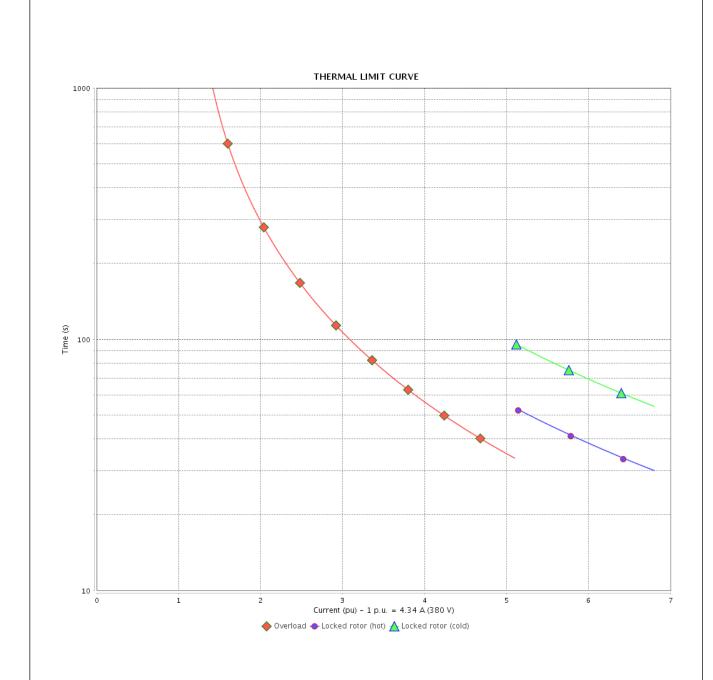


Customer	:				
Product line	: NEMA Premium Efficien Phase	cy Three-	Product code :	12373843	
	i nasc		Catalog # :	00336ST3QI	E182TC-W22
Performance	: 380 V 50 Hz 2P IE2				
Rated current	: 4.34 A		of inertia (J)	: 0.1889 sq.ft.l	b
LRC	: 6.8 : 5.47 ft lb	Duty cycl Insulation	е	: Cont.(S1)	
Rated torque Locked rotor torqu	: 5.47 ft.lb ue : 210 %	Service f		: F : 1.25	
Breakdown torque	e : 290 %	Tempera		: 80 K	
Rated speed	: 2880 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
	Changes Cammary		. Shomled	3.1301134	2410
Performed by					
Checked by				Page	Revision
Date	13/04/2022			24 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			25 / 36	

Three Phase Induction Motor - Squirrel Cage

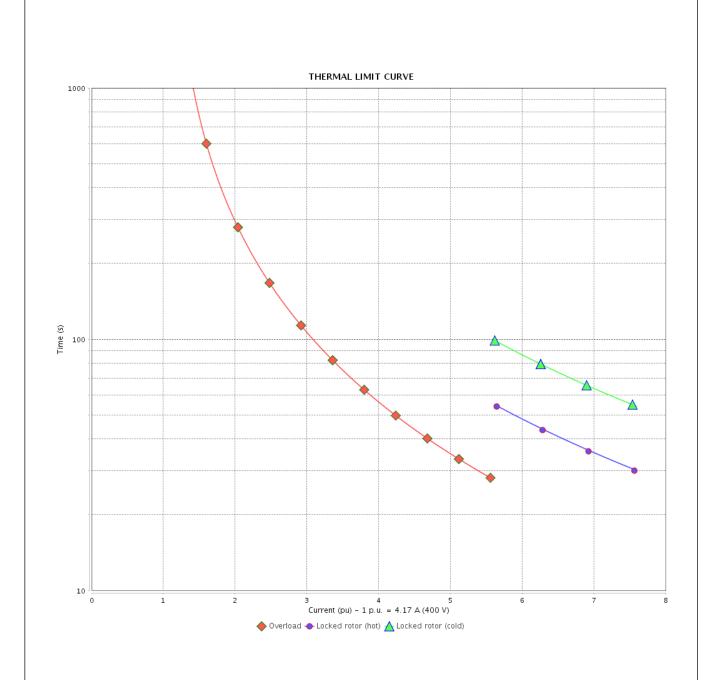


Customer	:				
Product line	: NEMA Premium Efficienc Phase		Product code : Catalog # :	12373843 00336ST3QI	E182TC-W22
Performance Rated current	: 400 V 50 Hz 2P IE2 : 4.17 A	Moment o	f inertia (J)	: 0.1889 sq.ft.l	b
LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.6 : 5.45 ft.lb : 240 % : 320 % : 2890 rpm	Duty cycle Insulation Service fa Temperatu Design	class ctor	: Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant 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	13/04/2022			27 / 36	

Three Phase Induction Motor - Squirrel Cage

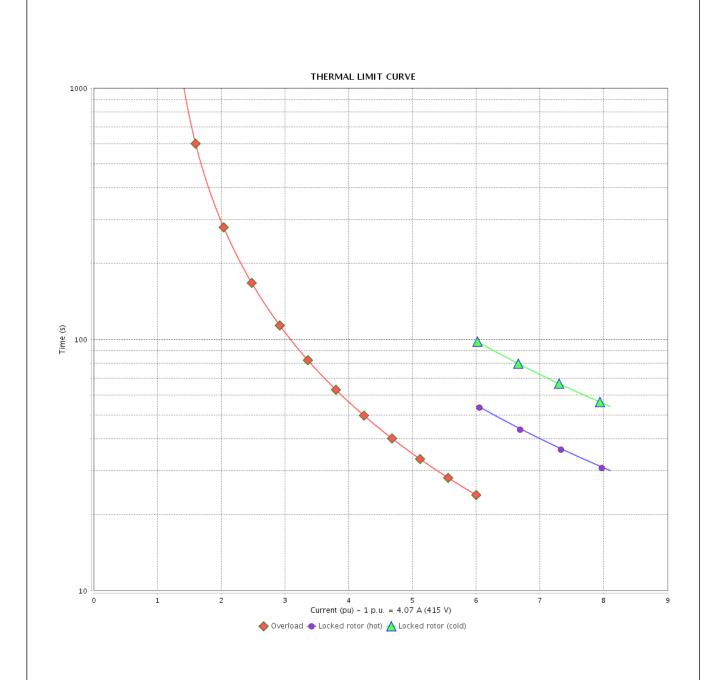


Customer	:				
Product line	: NEMA Premium Efficie Phase		Product code : Catalog # :	12373843 00336ST3QI	E182TC-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 415 V 50 Hz 2P IE2 : 4.07 A : 8.1 : 5.43 ft.lb : 260 % : 350 % : 2900 rpm	Moment of Duty cycle Insulation Service fa Temperati Design	class ctor	: 0.1889 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	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	13/04/2022			29 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- P

Phase

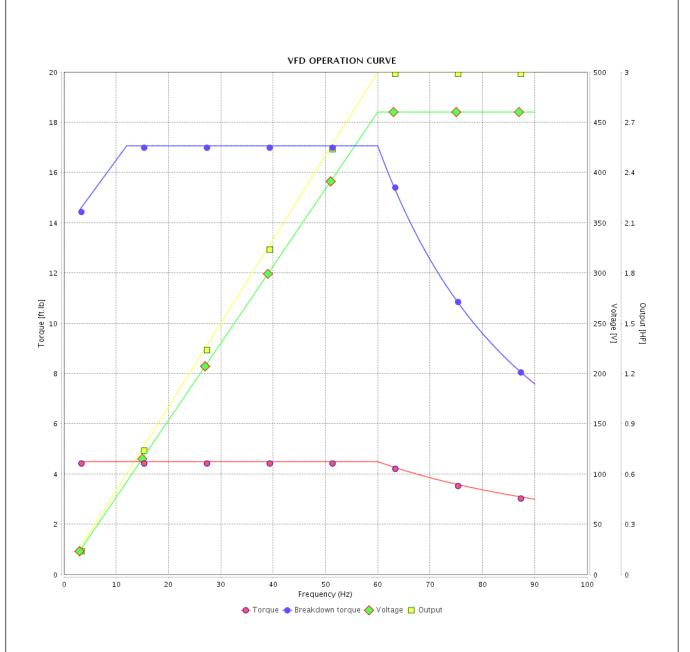
Product code: 12373843

Catalog #: 00336ST3QIE182TC-W22

Page

30 / 36

Revision



Performance : 460 V 60 Hz 2P Rated current : 3.63 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.6 : 4.49 ft.lb Insulation class : F Rated torque Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 3510 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

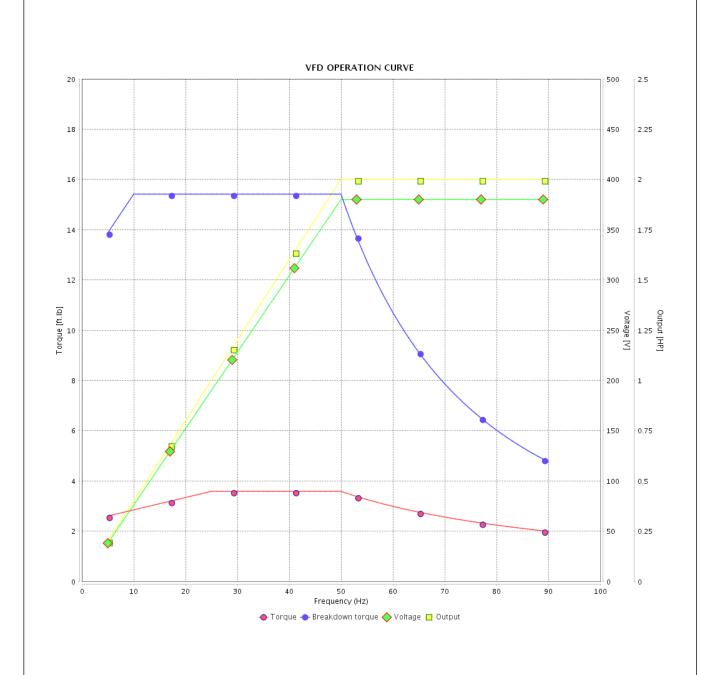


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12373843

Phase

Catalog #: 00336ST3QIE182TC-W22



Performance	: 3	30 V 50 Hz 2P IE3				
Rated current	: 3	3.09 A Moment of		f inertia (J)	: 0.1889 sq.ft.lb	
LRC	: 9	.6	Duty cycle)	: Cont.(S1)	
Rated torque	: 3	.58 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 3	00 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie : 4	30 %	Temperature rise		: 80 K	
Rated speed		930 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022	1			31 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

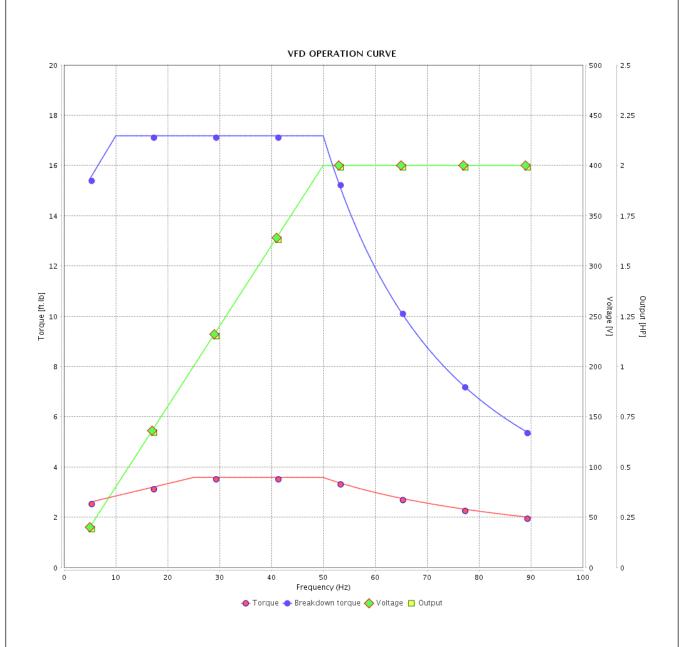
Product code: 12373843

Catalog #: 00336ST3QIE182TC-W22

Page

32 / 36

Revision



Date

Three Phase Induction Motor - Squirrel Cage

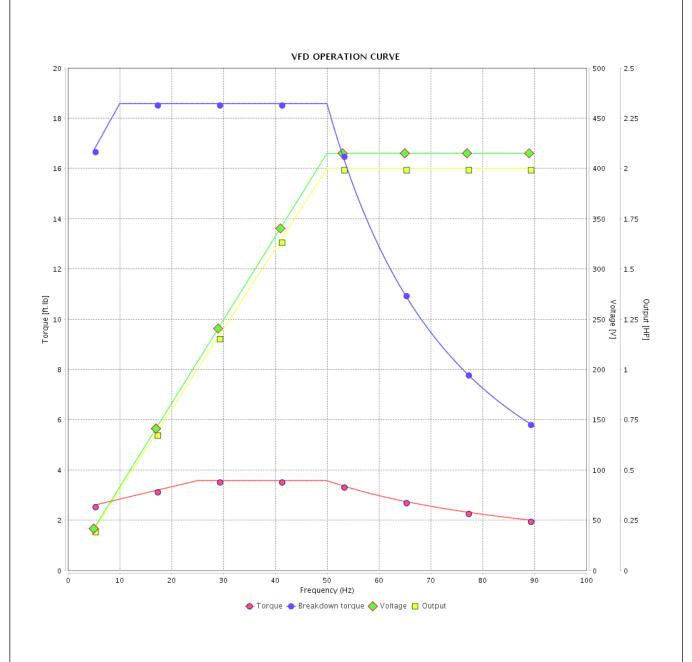


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12373843

Phase

Catalog #: 00336ST3QIE182TC-W22



Performance	:	415 V 50 Hz 2P IE3				
Rated current	Rated current : 2.96 A		Moment o	Moment of inertia (J)		lb
LRC	:	11.1	Duty cycle	:	: Cont.(S1)	
Rated torque	:	3.57 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	370 %	Service fa	ctor	: 1.25	
Breakdown torque	:	520 %	Temperature rise		: 80 K	
Rated speed	:	2940 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				33 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product

Phase

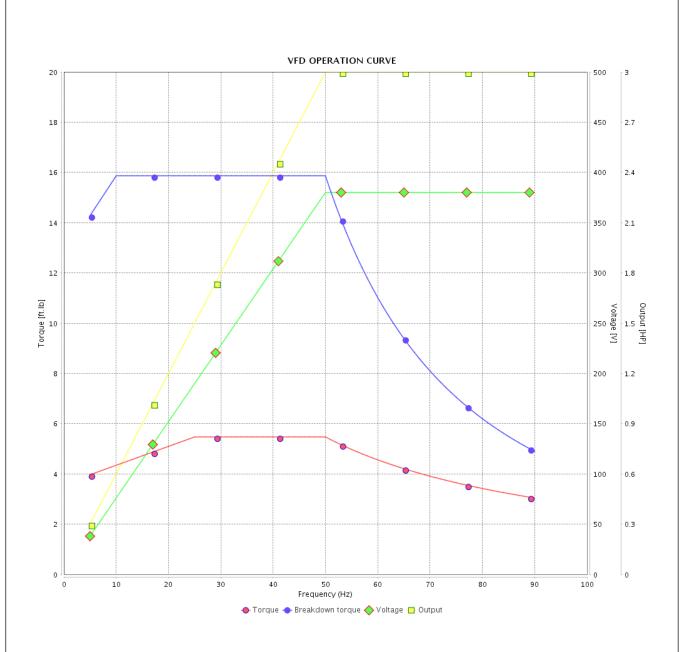
Product code: 12373843

Catalog #: 00336ST3QIE182TC-W22

Page

34 / 36

Revision



Performance : 380 V 50 Hz 2P IE2 Rated current : 4.34 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 : 5.47 ft.lb Insulation class : F Rated torque Locked rotor torque : 210 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 2880 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

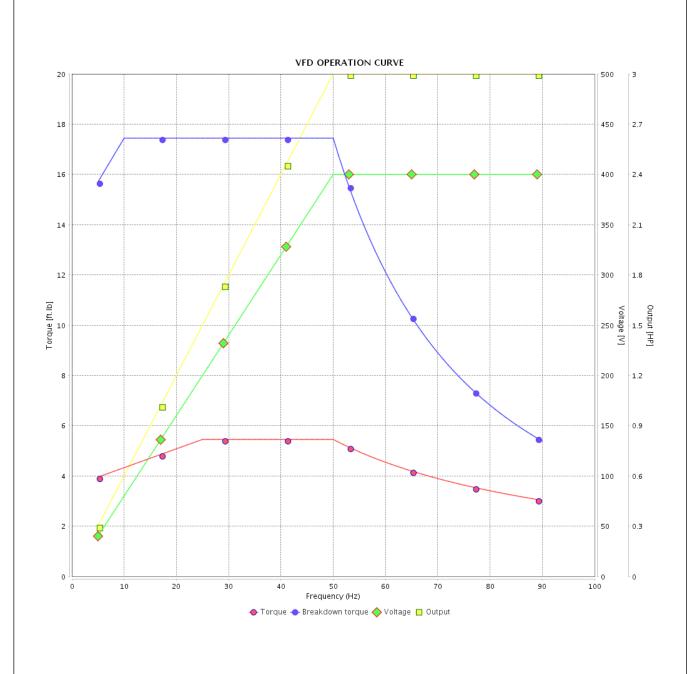


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12373843

Phase

Catalog #: 00336ST3QIE182TC-W22



Performance	: 4	100 V 50 Hz 2P IE2				
Rated current	d current : 4.17 A Moi		Moment o	f inertia (J)	: 0.1889 sq.ft.lb	
LRC	: 7	7.6	Duty cycle)	: Cont.(S1)	
Rated torque	: 5	5.45 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	240 %	Service fa	ctor	: 1.25	
Breakdown torque	e :3	320 %	Temperature rise		: 80 K	
Rated speed	: 2	2890 rpm	Design		: B	
Rev.	Rev. Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				35 / 36	

Three Phase Induction Motor - Squirrel Cage



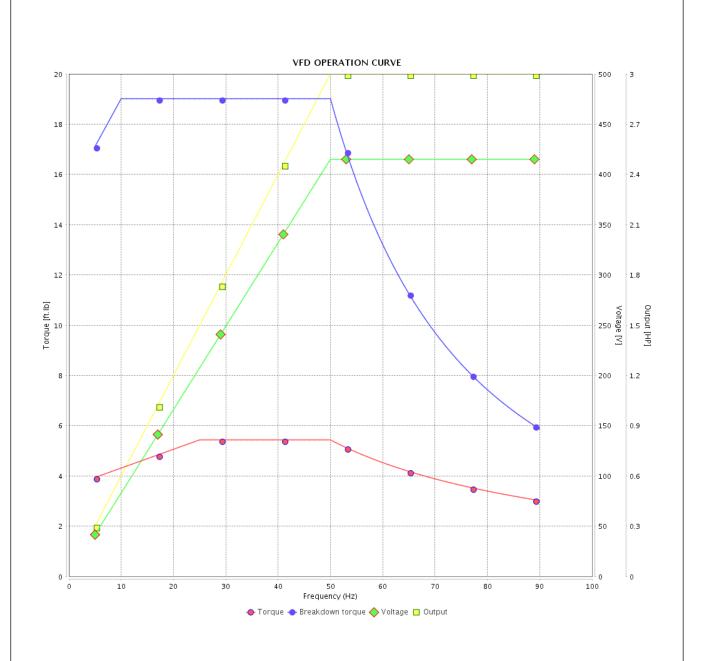
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00336ST3QIE182TC-W22

12373843



Performance		: 415 V 50 Hz 2P IE2				
Rated current	: 4.	: 4.07 A Moment		of inertia (J)	: 0.1889 sq.ft.lb	
LRC	: 8.	Duty cycle		: Cont.(S1)		
Rated torque	: 5.	3 ft.lb Insulation class		: F		
Locked rotor torqu	ue : 20	60 %	Service factor		: 1.25	
Breakdown torque	e : 3	50 %	Temperature rise		: 80 K	
Rated speed	: 29	900 rpm	Design		: B	
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022	1			36 / 36	

