DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431933

Catalog #: 05018ST3QIE326T-W22

Frame : 324/6T 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

: 1000 m.a.s.l. Approx. weight3 Altitude : 605 lb

Protection degree : IP55 Moment of inertia (J)

: 9.16 sq.ft.lb Design : B Output [HP] 50 40 40 40 50 50 50 Poles 4 4 4 4 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 400 380 400 460 380 415 415 Rated current [A] 59.2 71.6 68.4 58.7 57.1 56.4 66.3 L. R. Amperes [A] 372 367 376 400 417 397 411 LRC [A] 6.2x(Code 6.4x(Code | 7.0x(Code H) | 7.4x(Code J) | 5.2x(Code E) | 5.8x(Code F) 6.2x(Code G) G) G) No load current [A] 23.5 23.0 24.0 25.0 23.0 24.0 25.0 Rated speed [RPM] 1775 1475 1477 1478 1460 1465 1470 2.67 Slip [%] 1.39 1.67 1.53 1.47 2.33 2.00 Rated torque [ft.lb] 148 142 142 142 180 179 179 Locked rotor torque [%] 180 229 229 250 260 200 210 Breakdown torque [%] 200 270 260 300 330 240 260 1.00 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 80 K 105 K Temperature rise 80 K 80 K 80 K 105 K 105 K Locked rotor time 27s (cold) 19s (cold) 19s (cold) 19s (cold) 19s (cold) 19s (cold) 19s (cold) 15s (hot) 11s (hot) 11s (hot) 11s (hot) 11s (hot) 11s (hot) 11s (hot) Noise level² 70.0 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% 50% 93.0 92.5 91.5 91.1 93.0 92.4 92.4 Efficiency (%) 75% 94.1 93.1 92.8 93.0 93.0 93.0 93.0 100% 94.5 93.6 92.4 93.0 93.5 93.6 93.6 25% 0.64 0.60 0.72 0.65 50% 0.66 0.57 0.68 Power Factor

> Drive end Non drive end Foundation loads

0.73

0.81

0.70

0.79

Bearing type 6312 C3 6212 C3 Max. traction : 1480 lb Inpro/Seal Inpro/Seal : 2085 lb Sealing Max. compression Lubrication interval 20000 h 20000 h

0.77

0.83

Lubricant amount 21 g 13 g Lubricant type Mobil Polyrex EM

0.77

0.83

75%

100%

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.

0.81

0.85

0.79

0.84

0.76

0.83

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			1 / 36	

Three Phase Induction Motor - Squirrel Cage

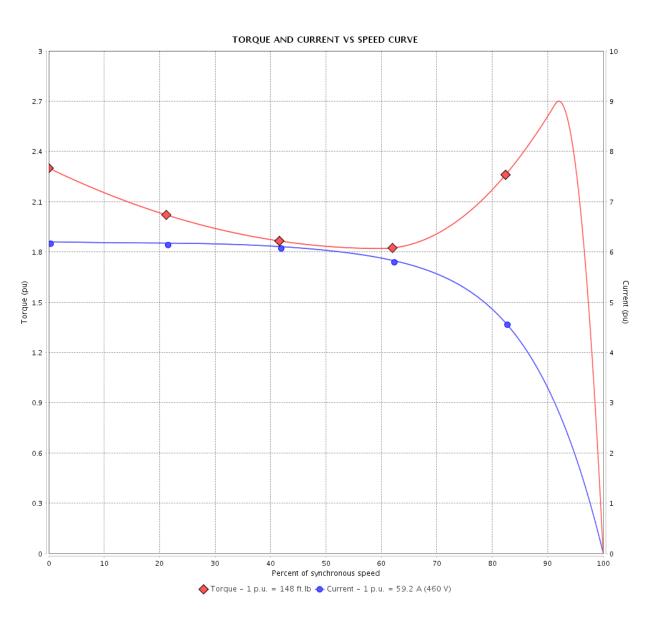


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 05018ST3QIE326T-W22

11431933



: 460 V 60 Hz 4P		
: 59.2 A	Moment of inertia (J)	: 9.16 sq.ft.lb
: 6.2	Duty cycle	: Cont.(S1)
: 148 ft.lb	Insulation class	: F
: 229 %	Service factor	: 1.25
: 270 %	Temperature rise	: 80 K
: 1775 rpm	Design	: B
: 27s (cold) 15s (hot)		
	: 59.2 A : 6.2 : 148 ft.lb : 229 % : 270 %	: 59.2 A : 6.2 : 148 ft.lb : 229 % : 270 % : 1775 rpm Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			2 / 36	



Revision

Page

3/36

Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431933 Catalog #: 05018ST3QIE326T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 142 ft.lb ◆ Current - 1 p.u. = 58.7 A (380 V) Performance : 380 V 50 Hz 4P IE3 Rated current : 58.7 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 142 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Locked rotor time : 19s (cold) 11s (hot) Performed Checked Date Rev. **Changes Summary**

Performed by Checked by

Date

12/04/2022

Three Phase Induction Motor - Squirrel Cage



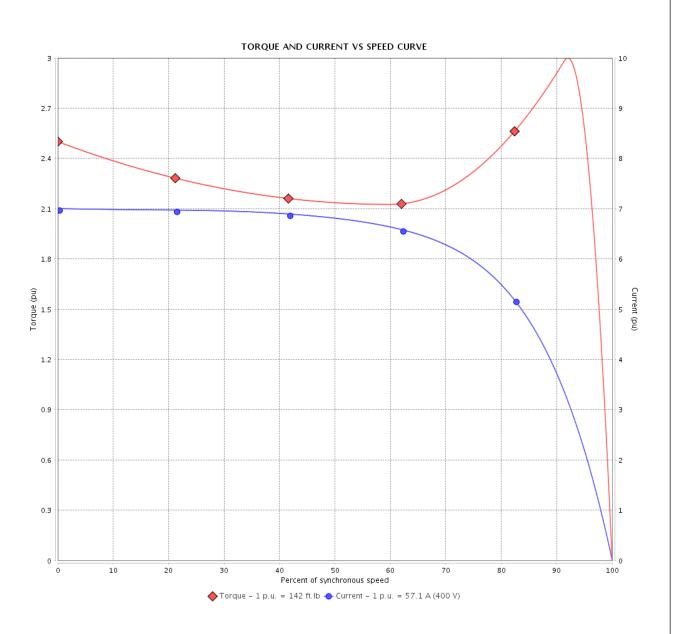
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 05018ST3QIE326T-W22

11431933



Performance	: 400 V 50 Hz 4P IE3			
Rated current	: 57.1 A	Moment of inertia (J)	: 9.16 sq.ft.lb	
LRC Rated torque	: 7.0 : 142 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 250 %	Service factor	: 1.00	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 1477 rpm	Design	: B	
Locked rotor time	: 19s (cold) 11s (hot)			

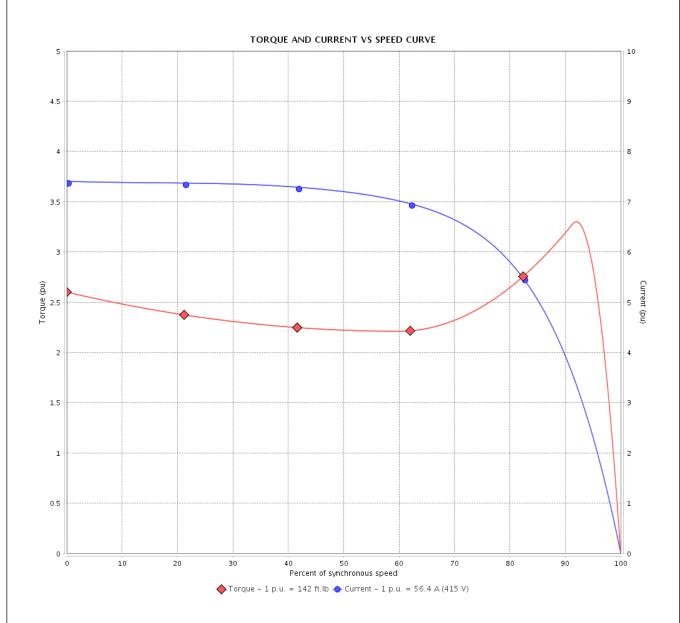
Locked rotor time : 19s (cold) 11s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			4 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11431933 Catalog #: 05018ST3QIE326T-W22



Performance	: 415 V 50 Hz 4P IE3			
Rated current	: 56.4 A	Moment of inertia (J)	: 9.16 sq.ft.lb	
LRC	: 7.4	Duty cycle	: Cont.(S1)	
Rated torque	: 142 ft.lb	Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.00	
Breakdown torque	: 330 %	Temperature rise	: 80 K	
Rated speed	: 1478 rpm	Design	: B	
Locked rotor time	: 19s (cold) 11s (hot)			

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Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			5 / 36	

Three Phase Induction Motor - Squirrel Cage

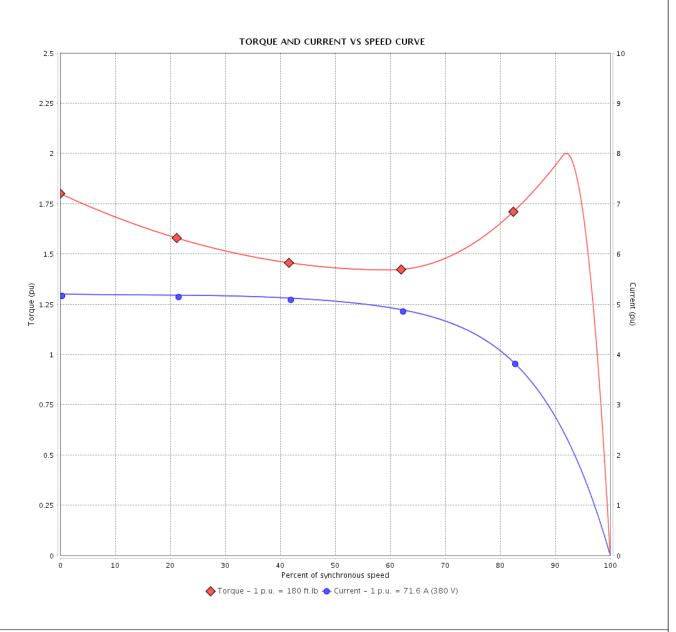


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431933

Phase

Catalog # : 05018ST3QIE326T-W22



Performance : 380 V 50 Hz 4P IE1 Rated current : 71.6 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 180 ft.lb : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 1460 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			6 / 36	



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431933 Catalog #: 05018ST3QIE326T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 179 ft.lb ◆ Current - 1 p.u. = 68.4 A (400 V) : 400 V 50 Hz 4P IE2 Performance Rated current : 68.4 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Rated torque : 179 ft.lb Insulation class : F Locked rotor torque : 200 % Service factor : 1.00 : 105 K Breakdown torque : 240 % Temperature rise Rated speed : 1465 rpm Design : B Locked rotor time : 19s (cold) 11s (hot)

Performed by				
Checked by			Page	Revision
Date	12/04/2022		7 / 36	
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Changes Summary

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Three Phase Induction Motor - Squirrel Cage



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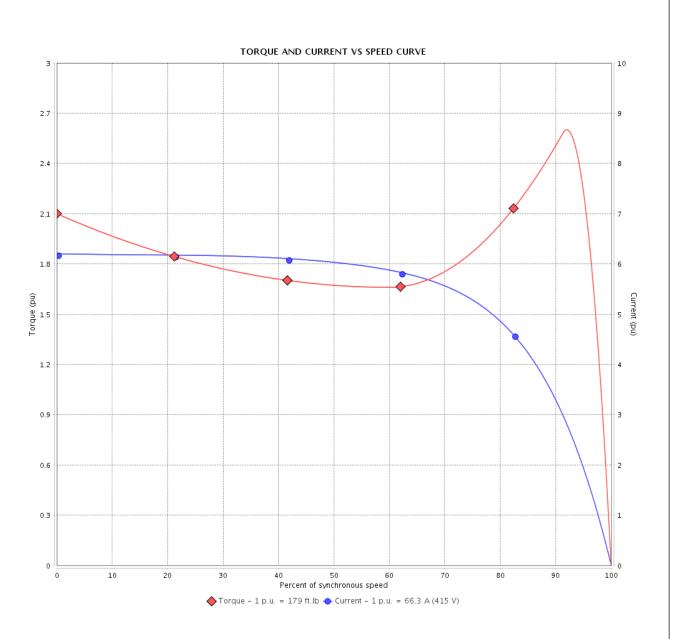
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #:

11431933

05018ST3QIE326T-W22



Performance	: 415 V 50 Hz 4P IE2		
Rated current	: 66.3 A	Moment of inertia (J)	: 9.16 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 179 ft.lb	Insulation class	:F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 105 K
Rated speed	: 1470 rpm	Design	: B
Locked rotor time	: 19s (cold) 11s (hot)		

Locked rotor time : 19s (cold) 11s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			8 / 36	

Three Phase Induction Motor - Squirrel Cage



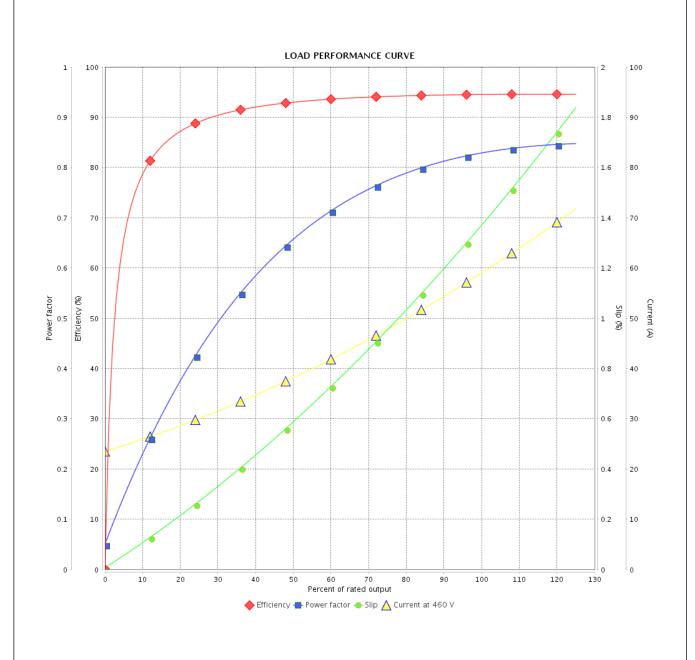
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431933

Phase

Catalog #: 05018ST3QIE326T-W22

9/36



Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 59.2 A : 6.2 : 148 ft.lb : 229 % : 270 % : 1775 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Rev. Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

12/04/2022

Three Phase Induction Motor - Squirrel Cage



Customer :

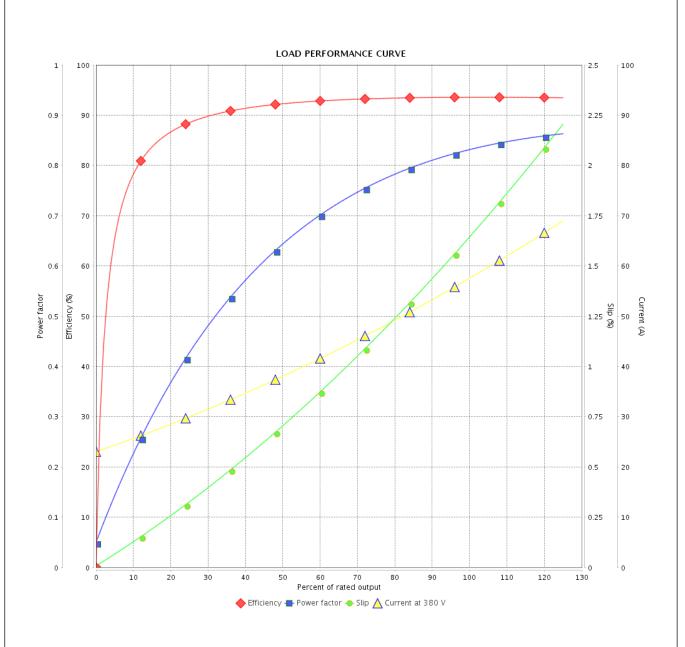
Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11431933

Catalog #: 05018ST3QIE326T-W22

10/36



Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 58.7 A : 6.4 : 142 ft.lb : 229 % : 260 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

12/04/2022

Three Phase Induction Motor - Squirrel Cage

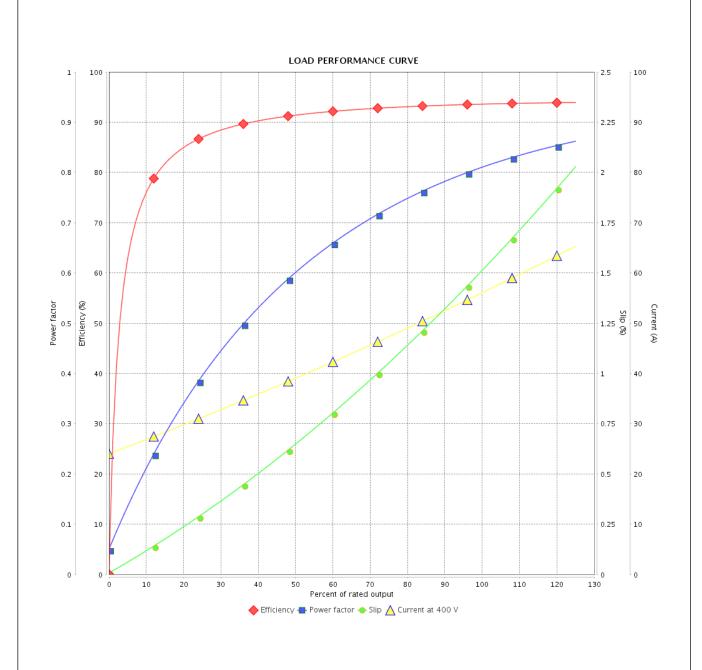


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431933

Phase

Catalog #: 05018ST3QIE326T-W22



Performance	:	400 V 50 Hz 4P IE3				
Rated current	:	57.1 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	:	7.0	Duty cycle	;	: Cont.(S1)	
Rated torque	:	142 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	250 %	Service fa	ctor	: 1.00	
Breakdown torque	:	300 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1477 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				11 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

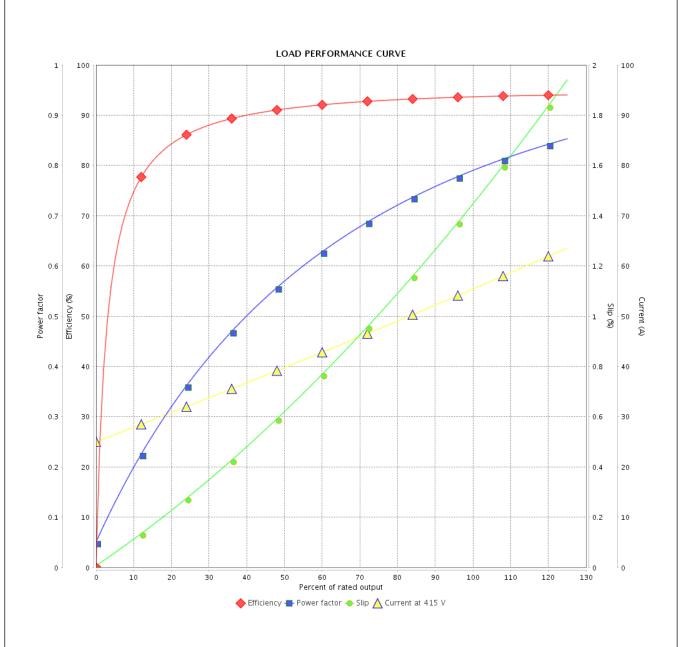
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11431933

Catalog #: 05018ST3QIE326T-W22

12/36



Dorformonoo	: 415 \/ 50 H= 4D IC2	-			
Performance	: 415 V 50 Hz 4P IE3				
Rated current	: 56.4 A	Moment of inertia (J)		: 9.16 sq.ft.lb	
LRC	: 7.4	Duty cycle		: Cont.(S1)	
Rated torque	: 142 ft.lb	Insulation class		: F	
Locked rotor torque	: 260 %	Service factor		: 1.00	
Breakdown torque	: 330 %	Temperature rise		: 80 K	
Rated speed	: 1478 rpm	Design		: B	
Rev.	Changes Summary	Perfor	med	Checked	Date
Performed by					
Checked by			ľ	Page	Revision

12/04/2022

Three Phase Induction Motor - Squirrel Cage

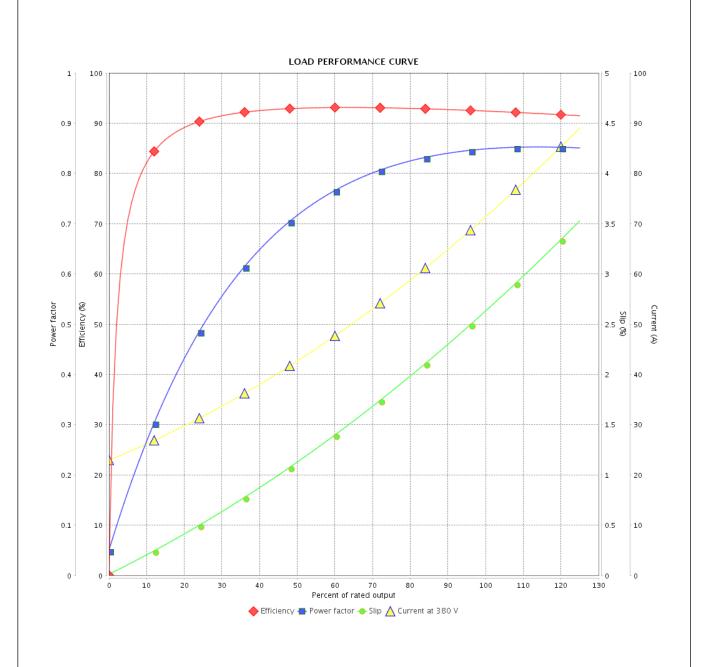


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431933

Phase

Catalog #: 05018ST3QIE326T-W22



Performance	: 38	80 V 50 Hz 4P IE1				
Rated current LRC	: 7 : 5	1.6 A .2	Moment of Duty cycle	of inertia (J) e	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torq		80 ft.lb 80 %	Insulation Service fa		: F : 1.00	
Breakdown torqu Rated speed		00 % 460 rpm	Temperati Design	ure rise	: 105 K : B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	12/04/2022	1			13 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer

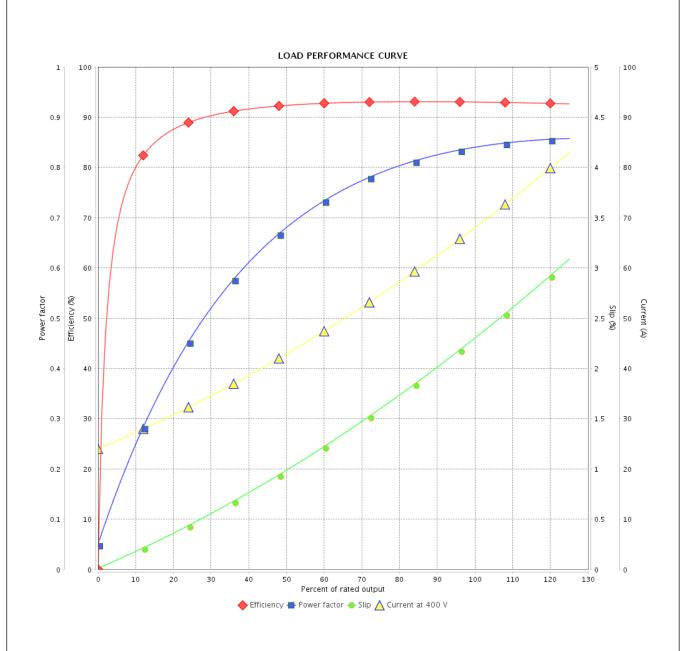
Date

12/04/2022

Product line : NEMA Premium Efficiency Three-

Product code: 11431933

Catalog #: 05018ST3QIE326T-W22



Performance : 400 V 50 Hz 4P IE2 Rated current : 68.4 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.8 Insulation class Rated torque : 179 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision 14/36

Three Phase Induction Motor - Squirrel Cage

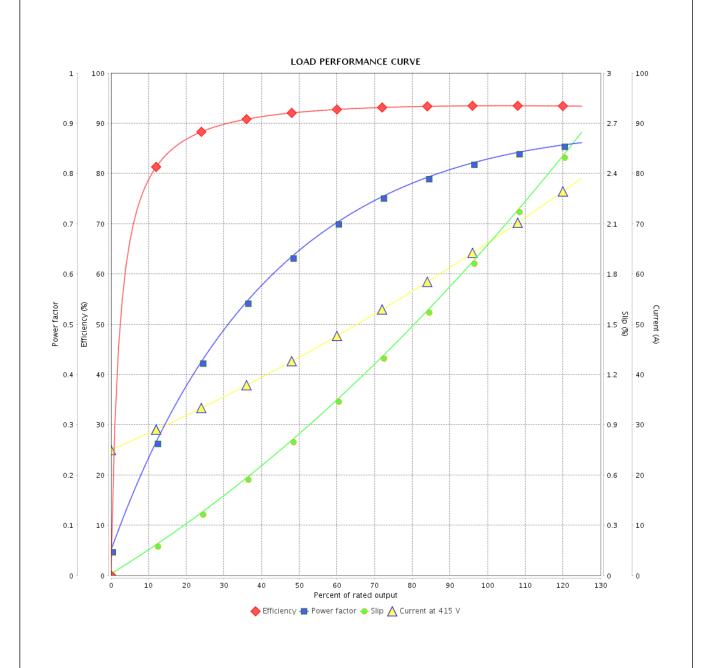


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431933

Phase

Catalog #: 05018ST3QIE326T-W22



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current	: 6	66.3 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6	6.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	79 ft.lb	Insulation		: F ` ´	
Locked rotor torque	e : 2	210 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	260 %	Temperati	ıre rise	: 105 K	
Rated speed	: 1	470 rpm	Design		: B	
Rev.		Changes Summar	ry	Performed	Checked	Date
Performed by						
		_			_	
Checked by					Page	Revision
Date	12/04/2022				15 / 36	

Three Phase Induction Motor - Squirrel Cage

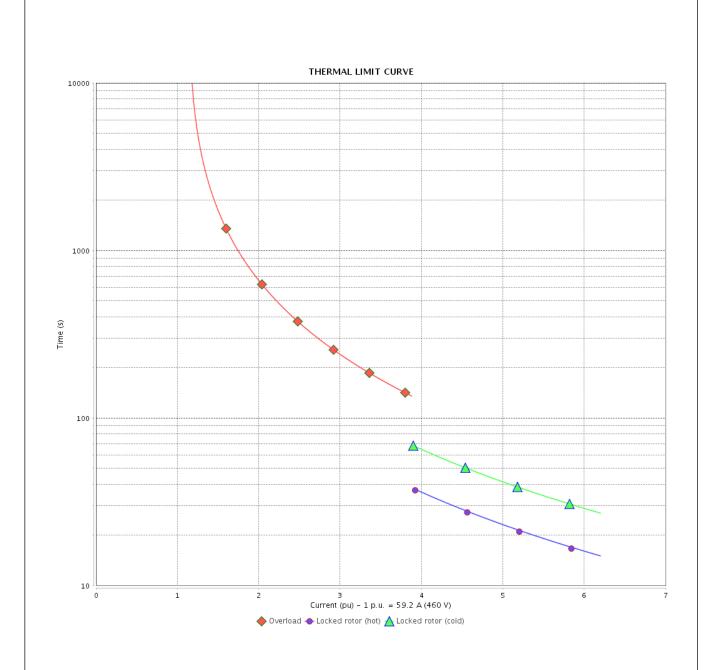


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Product line		NEMA Premium Efficiency	Three-	Product code :	11431933	
	P	hase		Catalog # :	05018ST3QIE	326T-W22
Performance		60 V 60 Hz 4P				
Rated current LRC	: 59 : 6.	9.2 A 2	Moment o	f inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque	: 14	48 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		29 % 70 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		775 rpm	Design	3.01.00	: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
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Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			17 / 36	

Three Phase Induction Motor - Squirrel Cage

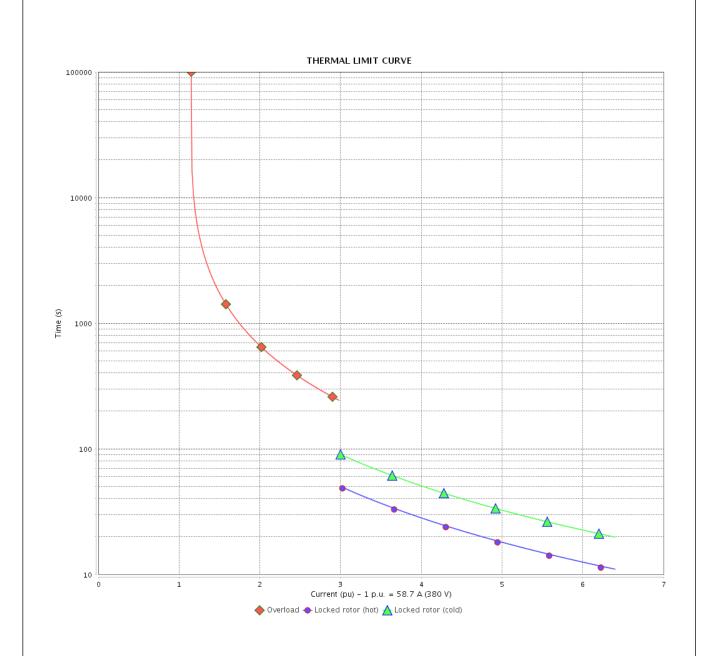


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Product line		: NEMA Premium Efficiency	Three-	Product code :	11431933	
T TOGGOT IIITO		Phase				
				Catalog # :	05018ST3QIE	:3261-W22
Performance	:	380 V 50 Hz 4P IE3				
Rated current		58.7 A	Moment of	of inertia (J)	: 9.16 sq.ft.lb	
LRC		6.4	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor torque		: 142 ft.lb : 229 %	Insulation Service fa		: F : 1.00	
Breakdown torque	e :	260 %	Temperat		: 80 K	
Rated speed	:	1475 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Doutous - d b.						
Performed by					Dogo	Revision
Checked by	12/04/2022				Page 18 / 36	KEVISION

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	12/04/2022			19 / 36	

Three Phase Induction Motor - Squirrel Cage

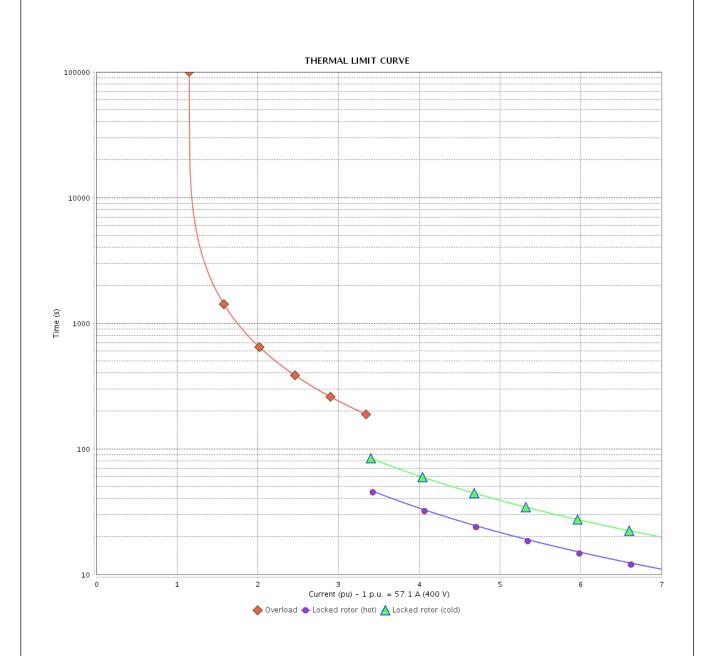


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	11431933 05018ST3QIE	226T W22
Performance	: 40	00 V 50 Hz 4P IE3				
Rated current LRC	: 7.		Duty cycle	f inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque		42 ft.lb 50 %	Insulation Service fa		: F : 1.00	
Breakdown torque Rated speed	: 30	00 % 177 rpm	Temperatu Design		: 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	10/04/0322				n age	1104131011

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	12/04/2022			21 / 36	

Three Phase Induction Motor - Squirrel Cage

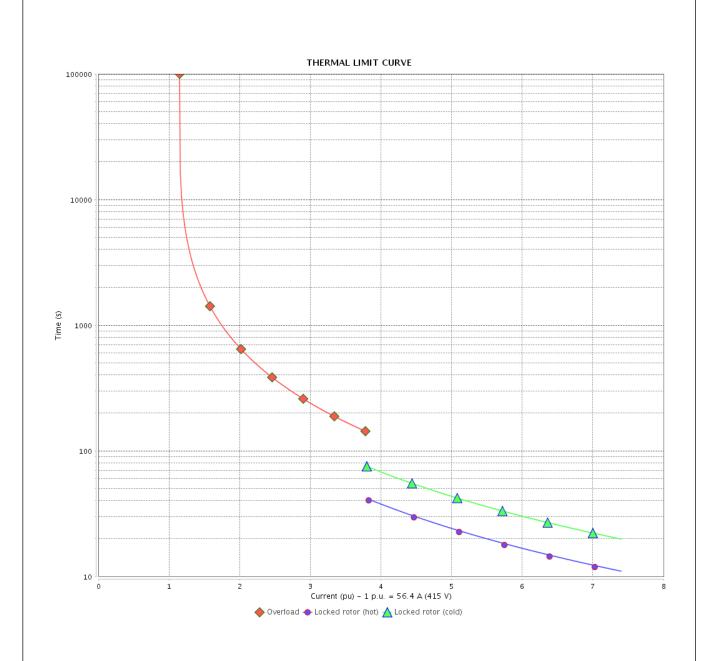


Customer	·				
	•				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	11431933	
	Pilase		Catalog # :	05018ST3QIE	326T-W22
Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC	: 56.4 A : 7.4	Moment o	f inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque	: 142 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 260 % : 330 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed	: 1478 rpm	Design	21 C 113C	: 80 K	
Heating constant					
Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
Deferen					
Performed by				Paga	Povision
Checked by	222			Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			23 / 36	

Three Phase Induction Motor - Squirrel Cage

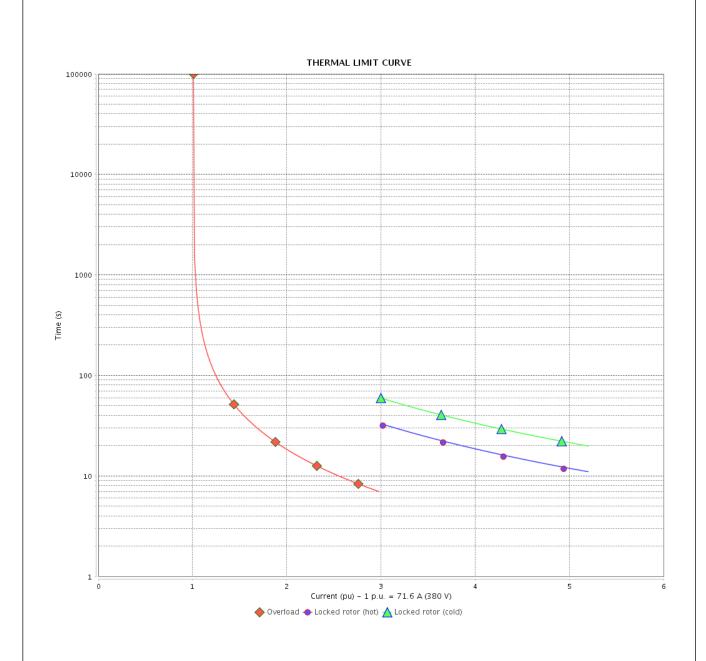


Customer	:				
Product line	: NEMA Premium Efficiency ¹ Phase		Product code :	11431933 05018ST3QIE	326T-W22
Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 71.6 A : 5.2 : 180 ft.lb	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.16 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	12/04/2022			Page 24 / 36	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	12/04/2022			25 / 36	

Three Phase Induction Motor - Squirrel Cage

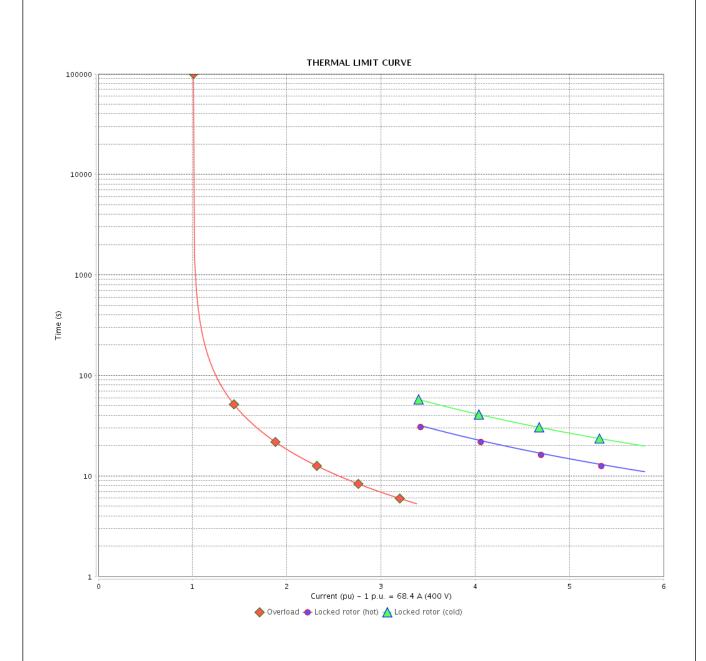


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11431933	
				Catalog # :	05018ST3QIE	:3261-VV22
Performance		: 400 V 50 Hz 4P IE2				
Rated current LRC		: 68.4 A : 5.8	Moment o	of inertia (J)	: 9.16 sq.ft.lb	
Rated torque		: 179 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 200 % : 240 %	Service fa		: 1.00 : 105 K	
Breakdown torqu Rated speed		: 240 % : 1465 rpm	Temperat Design	uic lise	: 105 K : B	
Heating constan	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				26 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			27 / 36	

Three Phase Induction Motor - Squirrel Cage

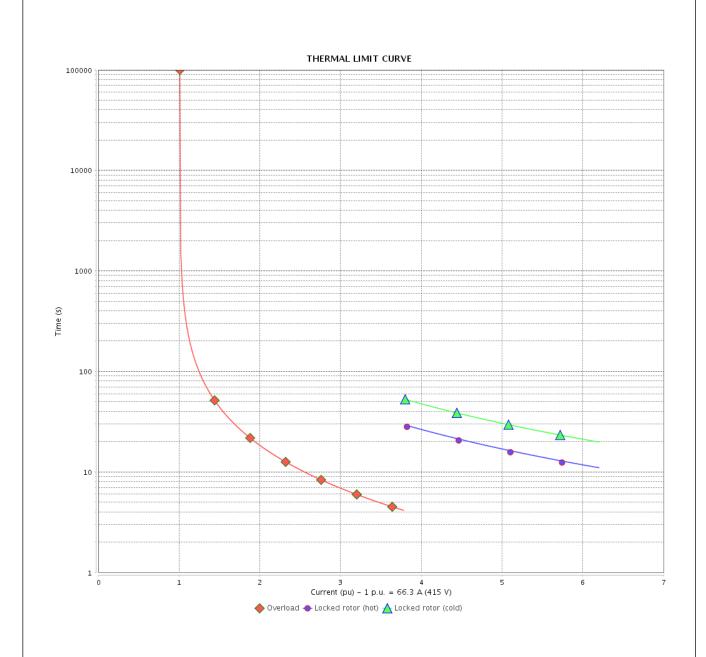


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11431933	
	Pi	hase		Catalog # :	05018ST3QIE	326T-W22
Performance		15 V 50 Hz 4P IE2	Mamanta	finantia (I)	. 0.40 az # lb	
Rated current LRC	: 6.	5.3 A 2	Duty cycle	f inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque	: 17	79 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		10 % 60 %	Service fa Temperatu		: 1.00 : 105 K	
Rated speed		470 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
		I				
Performed by						David
Checked by	40/04/0222				Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			29 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

12/04/2022

Product line : NEMA Premium Efficiency Three- F

Phase

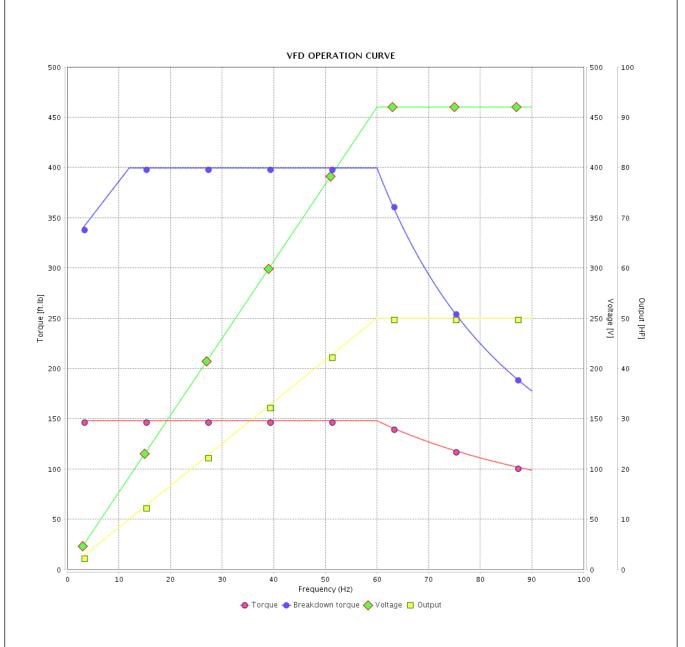
Product code: 11431933

Catalog #: 05018ST3QIE326T-W22

Page

30 / 36

Revision



Performance	:	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: que : ie :	59.2 A 6.2 148 ft.lb 229 % 270 %	Moment of Duty cycle Insulation Service for Temperary Design	n class actor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Sum	mary	Performed	Checked	Date
Performed by						

Three Phase Induction Motor - Squirrel Cage



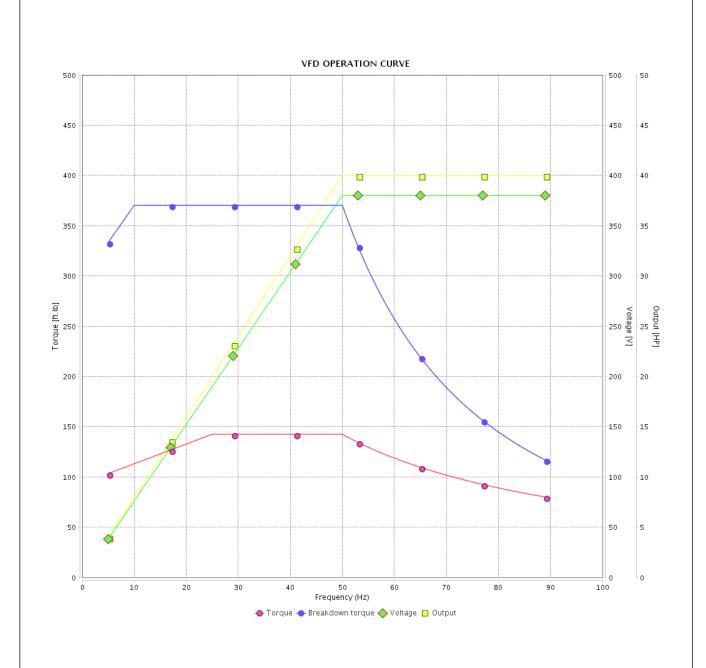
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431933

Phase

Catalog #: 05018ST3QIE326T-W22

31 / 36



Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 58.7 A : 6.4 : 142 ft.lb : 229 % : 260 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	Perform	ed Checked	Date
Performed by				
Checked by			Page	Revision

12/04/2022

Three Phase Induction Motor - Squirrel Cage



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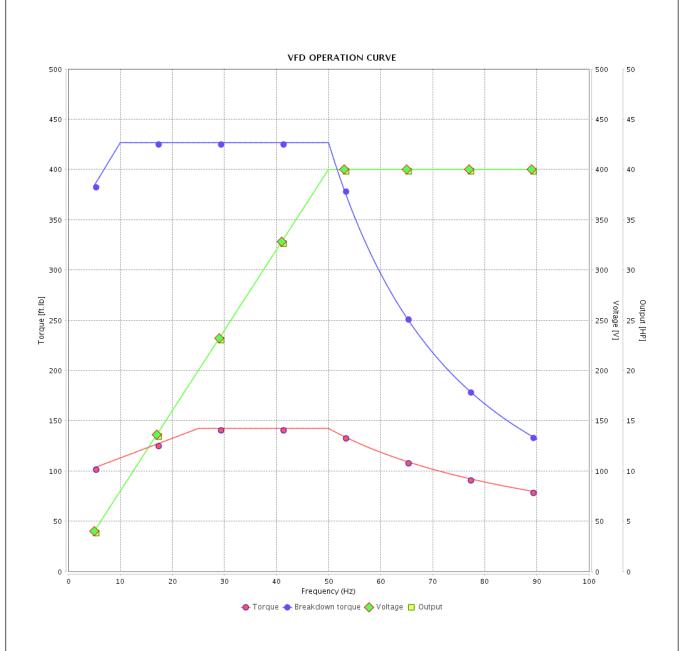
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431933

Catalog #: 05018ST3QIE326T-W22

32 / 36



Performance	: 4	00 V 50 Hz 4P IE3	3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 1 que : 2 ue : 3	77.1 A 7.0 42 ft.lb 250 % 600 % 477 rpm	Moment on Duty cycle Insulation Service fa Temperature	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summa	ary	Performed	Checked	Date
Performed by Checked by					Page	Revision

12/04/2022

Three Phase Induction Motor - Squirrel Cage



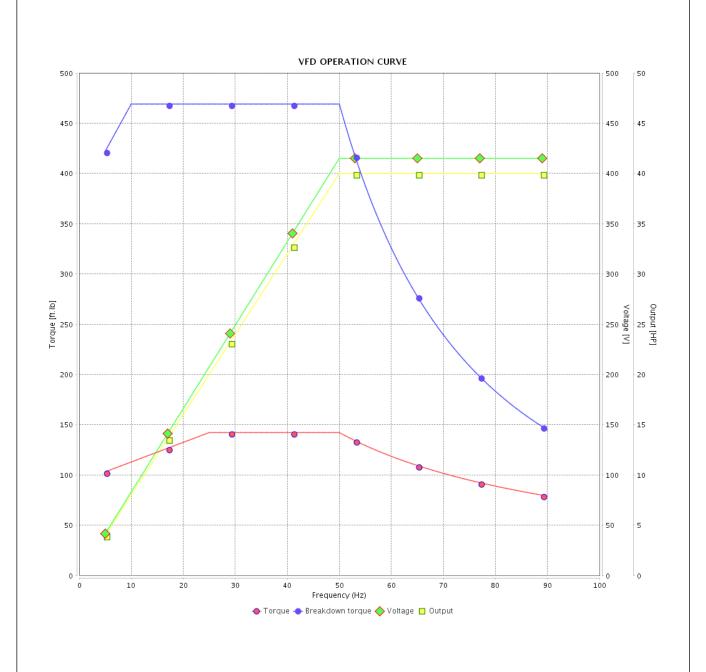
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431933

Phase

Catalog #: 05018ST3QIE326T-W22

33 / 36



Performance	: 415 V 50 Hz 4P IE3				
Rated current : 56.4 A Moment of inertia (J)		f inertia (J)	: 9.16 sq.ft.lb		
LRC	: 7.4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 142 ft.lb	Insulation	class	: F	
Locked rotor torque	: 260 %	Service fa	ctor	: 1.00	
Breakdown torque	: 330 %	Temperatu	ıre rise	: 80 K	
Rated speed	: 1478 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

12/04/2022

Three Phase Induction Motor - Squirrel Cage



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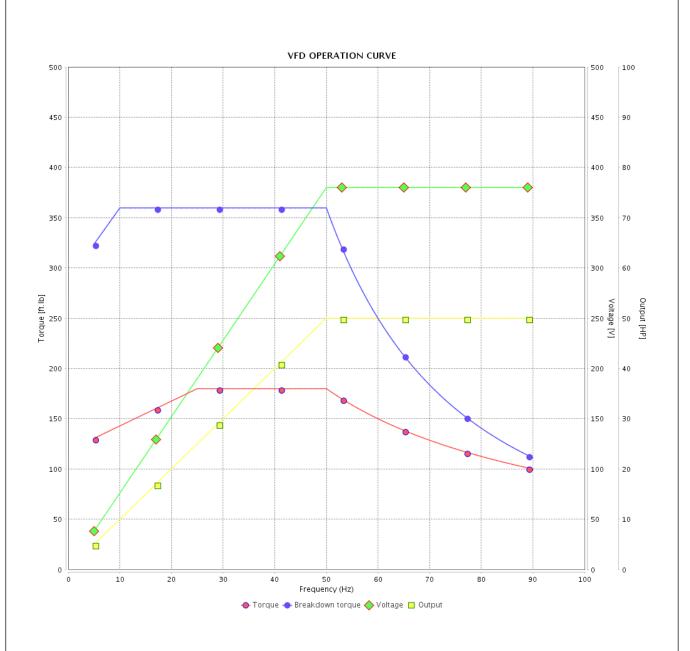
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431933

Catalog #: 05018ST3QIE326T-W22

34 / 36



Performance	: 380 V 50 Hz 4P IE1				
Rated current	: 71.6 A	Moment of inertia	(J)	: 9.16 sq.ft.lb	
LRC	: 5.2	Duty cycle		: Cont.(S1)	
Rated torque	: 180 ft.lb	Insulation class		: F	
Locked rotor torque	: 180 %	Service factor		: 1.00	
Breakdown torque	: 200 %	Temperature rise		: 105 K	
Rated speed	: 1460 rpm	Design		: B	
Rev.	Changes Summary	Perfe	ormed	Checked	Date
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Checked by				Page	Revision

12/04/2022

Three Phase Induction Motor - Squirrel Cage



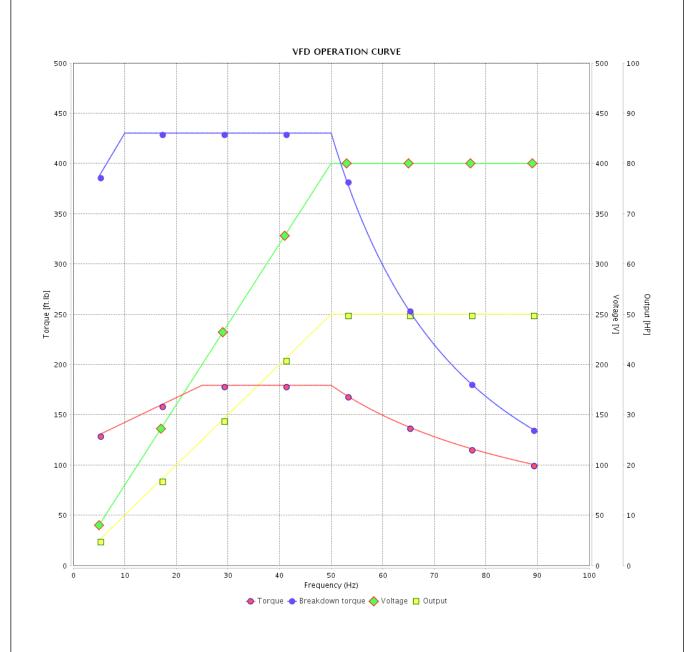
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Product line : NEMA Premium Efficiency Three- Product code : 11431933

Phase

Catalog #: 05018ST3QIE326T-W22

35 / 36



Performance	: 400 V 50 Hz 4P IE2	: 400 V 50 Hz 4P IE2						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 68.4 A : 5.8 : 179 ft.lb : 200 % : 240 % : 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B				
Rev.	Changes Summary		Performed	Checked	Date			
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Checked by				Page	Revision			

12/04/2022

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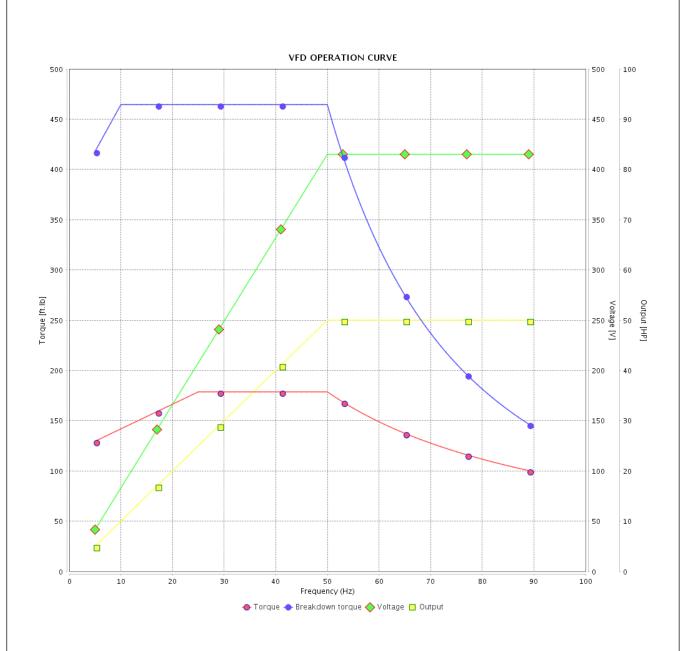
Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 11431933

Catalog #: 05018ST3QIE326T-W22

36 / 36



Performance	: 41	: 415 V 50 Hz 4P IE2							
	RC : 6.2 Duty Rated torque : 179 ft.lb Insula ocked rotor torque : 210 % Servi greakdown torque : 260 % Temp		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B				
Rev.	Changes Summary			Performed	Checked	Date			
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Checked by					Page	Revision			

12/04/2022

