#### DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11456657

Catalog #: 00309ET3E215T-W22

Frame : 213/5T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

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

: 1000 m.a.s.l. Approx. weight<sup>3</sup> : 181 lb Altitude

Moment of inertia (J) Protection degree : IP55 : 2.11 sq.ft.lb Design : B Output [HP] 3 3 3 Poles 8 8 8 8 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 9.10/4.55 5.20 5.33 5.06 L. R. Amperes [A] 61.9/30.9 28.2 31.2 32.9 5.3x(Code G) 6.0x(Code J) 6.5x(Code J) LRC [A] 6.8x(Code K) No load current [A] 5.43/2.71 2.68 2.86 3.00 Rated speed [RPM] 870 710 715 720 Slip [%] 3.33 5.33 4.67 4.00 Rated torque [ft.lb] 18.1 22.2 22.0 21.9 Locked rotor torque [%] 229 180 220 260 Breakdown torque [%] 275 200 240 270 Service factor 1.25 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 79s (cold) 44s (hot) 59s (cold) 33s (hot) 59s (cold) 33s (hot) 59s (cold) 33s (hot) Noise level<sup>2</sup> 52.0 dB(A) 52.0 dB(A) 52.0 dB(A) 52.0 dB(A) 25% 50% 84.0 84.0 84.0 82.5 Efficiency (%) 75% 84.0 84.0 84.0 85.5 85.5 84.0 100% 82.5 82.5 25% 50% 0.50 0.57 0.54 0.51 Power Factor

> Non drive end Drive end Foundation loads

0.70

0.76

6207 ZZ Bearing type 6308 ZZ Max. traction : 242 lb Sealing V'Ring V'Ring Max. compression : 424 lb

0.63

0.71

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 10.1A SF 1.15 SFA 11.6A

75%

100%

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.

0.67

0.74

0.64 0.72

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			1 / 21	

#### Three Phase Induction Motor - Squirrel Cage



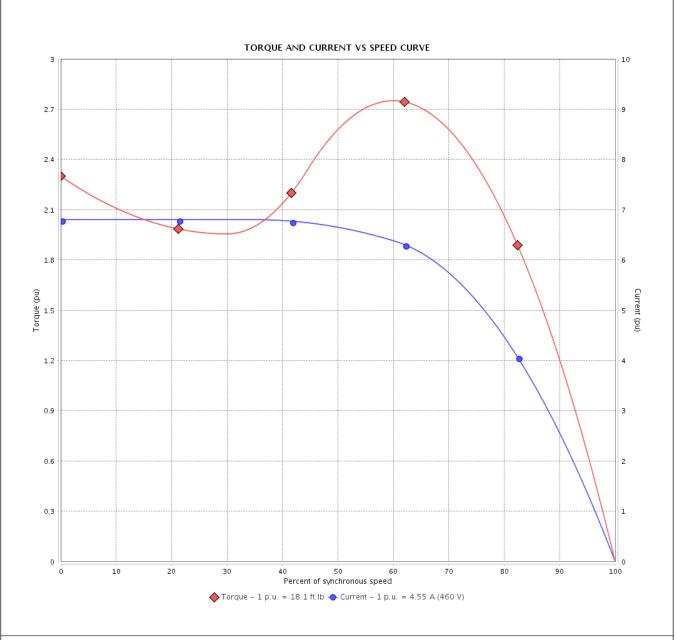
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11456657

Catalog #: 00309ET3E215T-W22



Performance : 230/460 V 60 Hz 8P Rated current : 9.10/4.55 A Moment of inertia (J) : 2.11 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 18.1 ft.lb : F Service factor Locked rotor torque : 229 % : 1.25 Breakdown torque : 275 % Temperature rise : 80 K Rated speed : 870 rpm Design : B

Locked rotor time : 79s (cold) 44s (hot)

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2 / 21	

#### Three Phase Induction Motor - Squirrel Cage

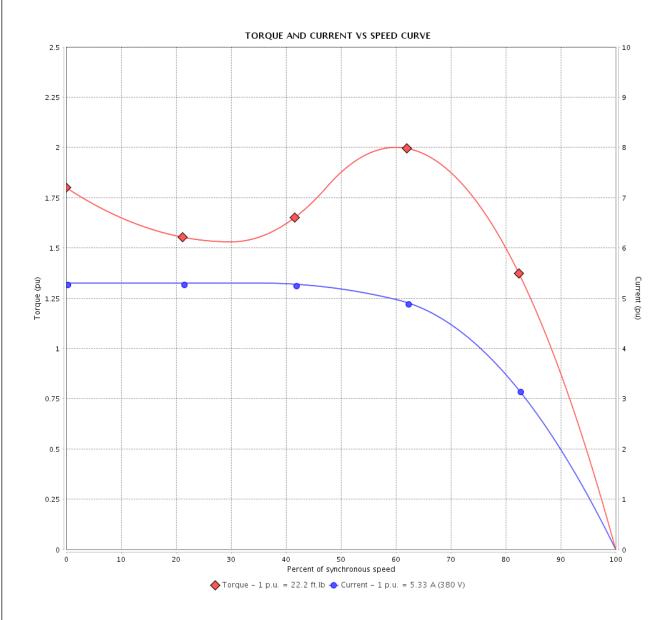


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11456657

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Catalog #: 00309ET3E215T-W22



: 380 V 50 Hz 8P IE3		
: 5.33 A	Moment of inertia (J)	: 2.11 sq.ft.lb
: 5.3	Duty cycle	: Cont.(S1)
: 22.2 ft.lb	Insulation class	:F
: 180 %	Service factor	: 1.25
: 200 %	Temperature rise	: 80 K
: 710 rpm	Design	: B
	: 5.33 A : 5.3 : 22.2 ft.lb : 180 % : 200 %	: 5.33 A Moment of inertia (J) : 5.3 Duty cycle : 22.2 ft.lb Insulation class : 180 % Service factor : 200 % Temperature rise

Locked rotor time : 59s (cold) 33s (hot)

Locked rotor time	. 0	00 (0014) 000 (1101)			
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			3 / 21	

#### Three Phase Induction Motor - Squirrel Cage



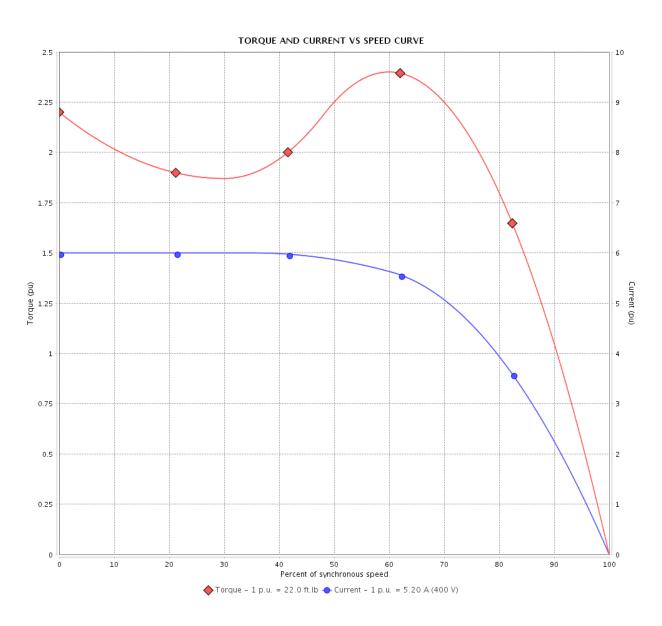
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11456657

Catalog #: 00309ET3E215T-W22



Performance : 400 V 50 Hz 8P IE3 Rated current : 5.20 A Moment of inertia (J) : 2.11 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 22.0 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 715 rpm Design : B

Locked rotor time : 59s (cold) 33s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			4 / 21	



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11456657 Catalog #: 00309ET3E215T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Torque (pu) 1.2 0.6 40 50 -Percent of synchronous speed ◆ Torque - 1 p.u. = 21.9 ft.lb ◆ Current - 1 p.u. = 5.06 A (415 V)

Performance	: 415 V 50 Hz 8P IE3			
Rated current	: 5.06 A	Moment of inertia (J)	: 2.11 sq.ft.lb	
LRC	: 6.5	Duty cycle	: Cont.(S1)	
Rated torque	: 21.9 ft.lb	Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.25	
Breakdown torque	: 270 %	Temperature rise	: 80 K	
Rated speed	: 720 rpm	Design	: B	
Locked rotor time	: 59s (cold) 33s (hot)			
Rev.	Changes Summary	Performed	I Checked	Date

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			5 / 21	

#### Three Phase Induction Motor - Squirrel Cage



Revision

Page

6/21

Customer :

Checked by

Date

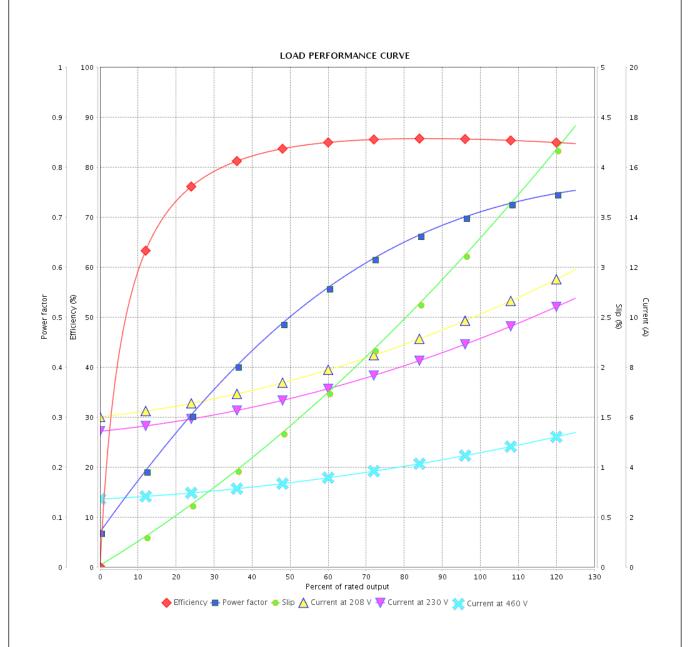
13/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00309ET3E215T-W22

11456657



Performance : 230/460 V 60 Hz 8P Rated current : 9.10/4.55 A Moment of inertia (J) : 2.11 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 Insulation class Rated torque : 18.1 ft.lb : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 275 % Temperature rise : 80 K Rated speed : 870 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage



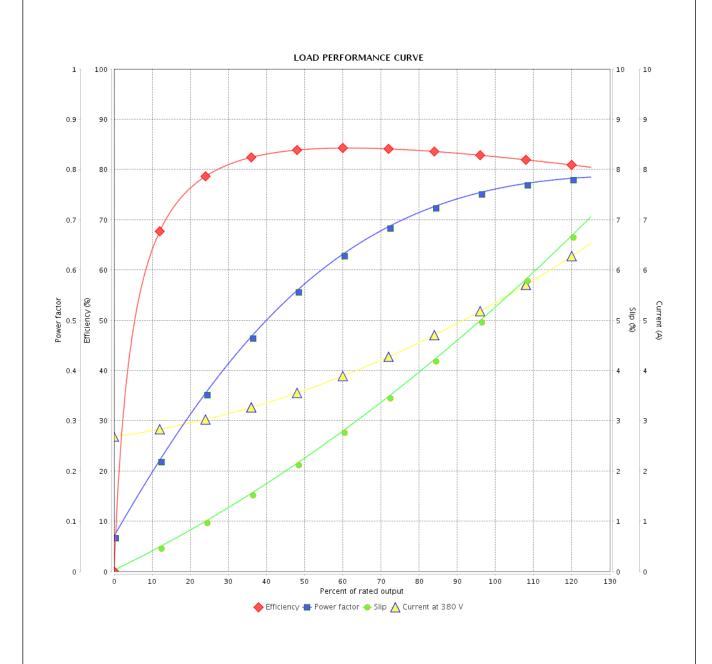
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11456657

Phase

Catalog #: 00309ET3E215T-W22

7/21



Performance : 380 V 50 Hz 8P IE3					
Rated current	: 5.33 A	Moment of ine	ertia (J)	: 2.11 sq.ft.lb	
LRC	: 5.3	Duty cycle		: Cont.(S1)	
Rated torque	: 22.2 ft.lb	Insulation clas	S	: F	
Locked rotor torque	: 180 %	Service factor Temperature rise Design		: 1.25	
Breakdown torque	: 200 %			: 80 K	
Rated speed	: 710 rpm			: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

#### Three Phase Induction Motor - Squirrel Cage



Customer :

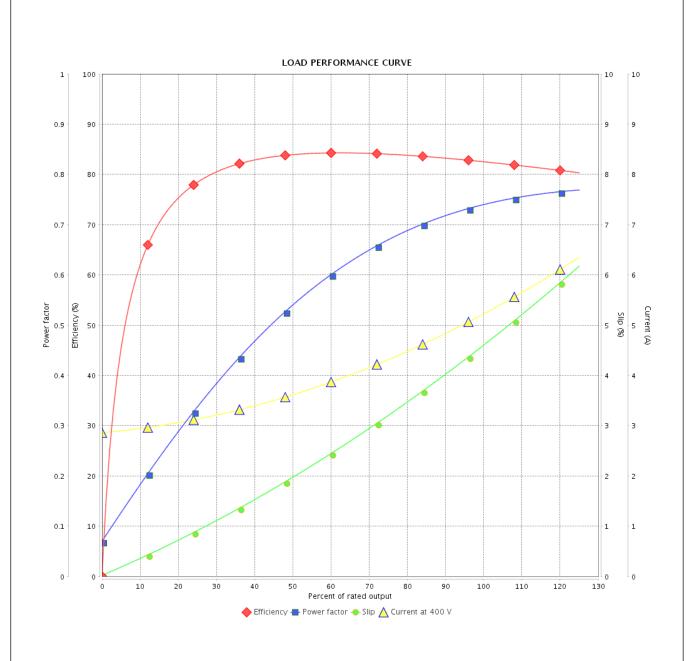
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #:

11456657

00309ET3E215T-W22



Performance	: 4	100 V 50 Hz 8P IE3				
Rated current	: 5	5.20 A	Moment o	of inertia (J)	: 2.11 sq.ft.lb	
LRC	: 6	6.0	Duty cycle	` '	: Cont.(S1)	
Rated torque	: 2	22.0 ft.lb	Insulation		: F ` ´	
Locked rotor torc	μue : 2	220 %	Service factor Temperature rise		: 1.25	
Breakdown torqu	ie : 2	240 %			: 80 K	
Rated speed	: 7	: 715 rpm Design			: B	
Rev.	Rev. Changes Summary		I	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				8 / 21	

#### Three Phase Induction Motor - Squirrel Cage



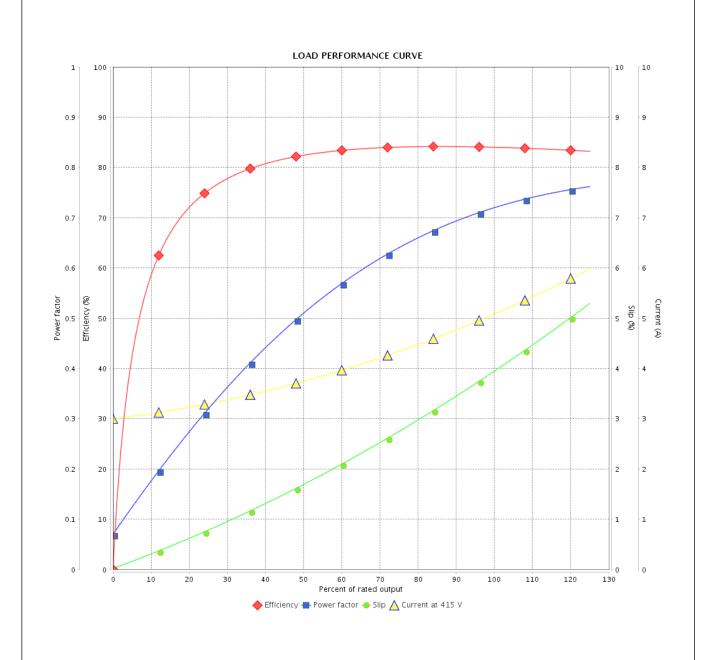
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11456657

Phase

Catalog #: 00309ET3E215T-W22

9/21



Performance	: 415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.06 A : 6.5 : 21.9 ft.lb : 260 % : 270 % : 720 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.11 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

### Three Phase Induction Motor - Squirrel Cage

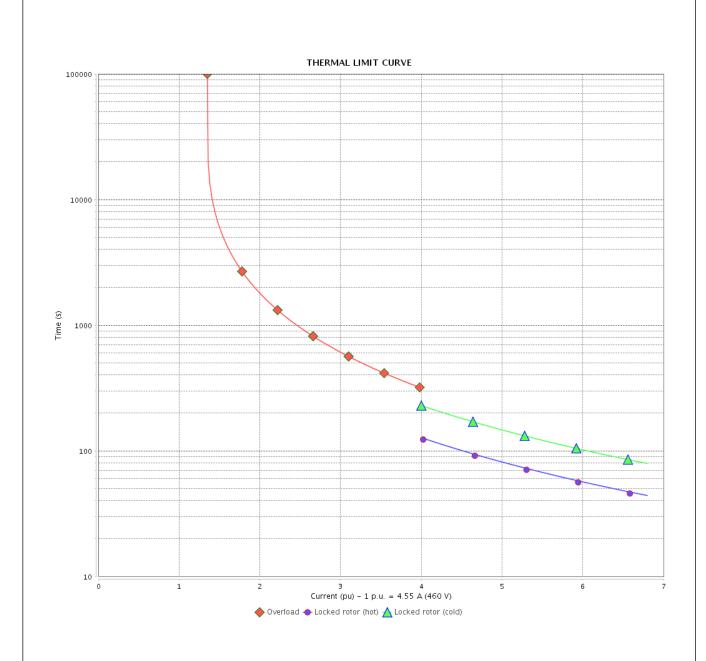


Customer	:				
Product line	: NEMA Premium Efficiend Phase		Product code : Catalog # :	11456657 00309ET3E2	15T-W22
Performance Rated current LRC	: 230/460 V 60 Hz 8P : 9.10/4.55 A : 6.8	Duty cycle	of inertia (J)	: 2.11 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque Breakdown torque Rated speed	: 18.1 ft.lb : 229 % : 275 % : 870 rpm	Insulation Service fa Temperati Design	ictor	: F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
Performed by Checked by	1/2000			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			11 / 21	

### Three Phase Induction Motor - Squirrel Cage

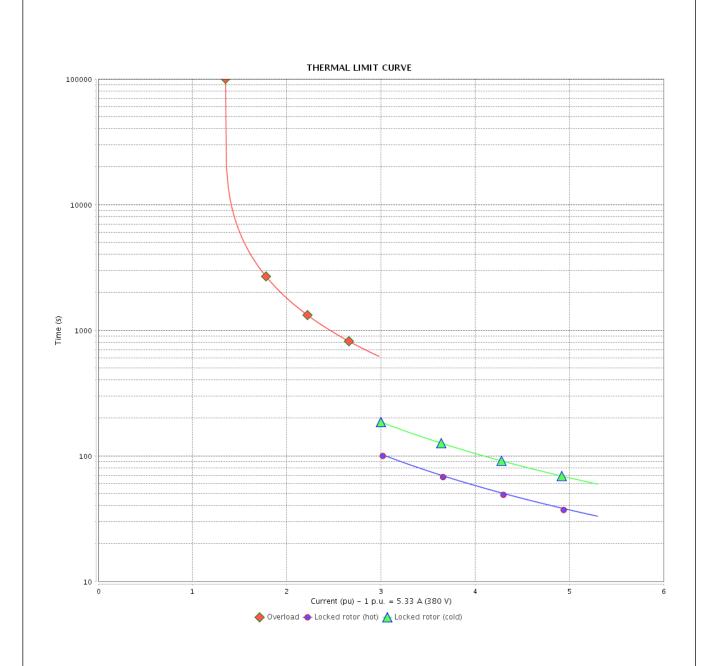


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11456657 00309ET3E21	15T-W22
Performance		: 380 V 50 Hz 8P IE3				
Rated current LRC		: 5.33 A : 5.3	Moment of Duty cycle	of inertia (J)	: 2.11 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 22.2 ft.lb : 180 %	Insulation Service fa	class	: F : 1.25	
Breakdown torqu	ue	: 200 %	Temperat		: 80 K	
Rated speed		: 710 rpm	Design		: B	
Heating constan						
Cooling constant	I.	Changes Summary		Performed	Checked	Date
Performed by						
Checked by	40/04/225				Page 12 / 21	Revision
Date	13/04/2022	1			17 / 71	

### Three Phase Induction Motor - Squirrel Cage



Customer



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

### Three Phase Induction Motor - Squirrel Cage

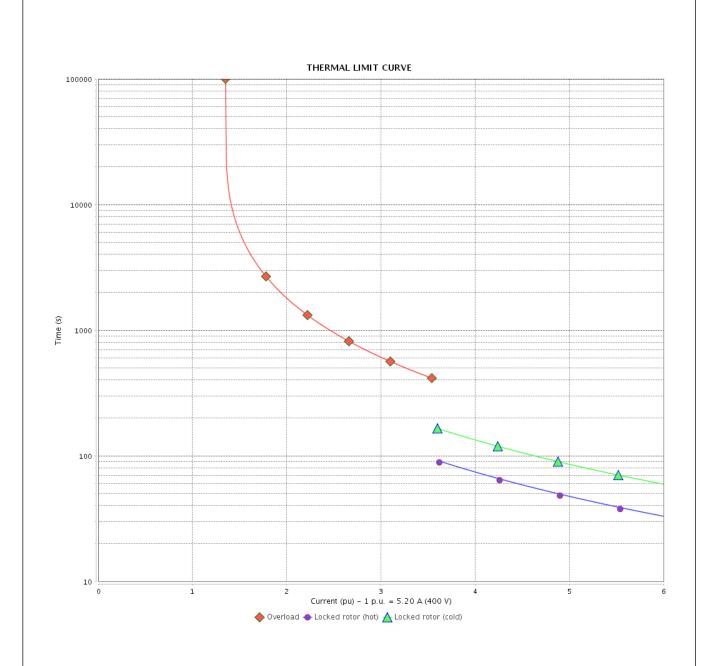


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code : Catalog # :	11456657 00309ET3E2	15T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5. : 6. : 22 : 22	20 V 50 Hz 8P IE3 20 A 0 2.0 ft.lb 20 % 40 % 15 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 2.11 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by	10/04/0202				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			15 / 21	

### Three Phase Induction Motor - Squirrel Cage

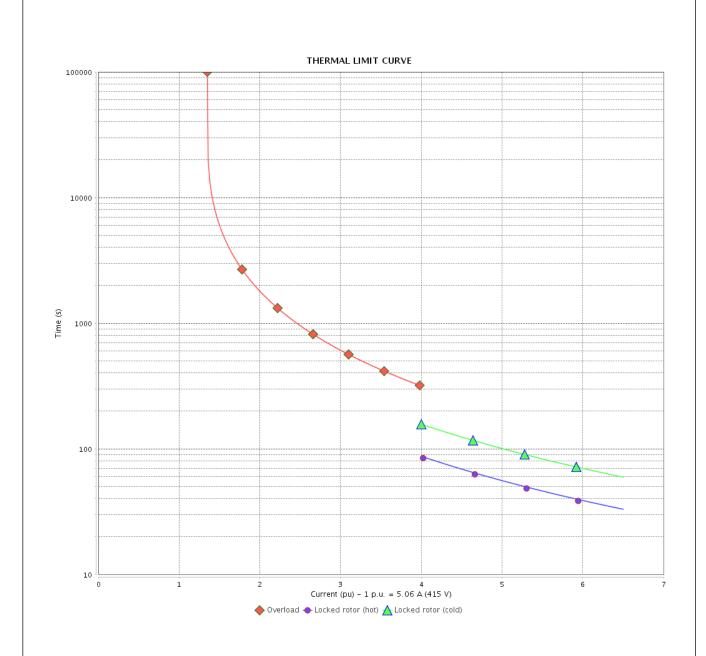


Customer	:				_	
Product line		NEMA Premium Efficiency nase		Product code : Catalog # :	11456657 00309ET3E2	15T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5. : 6. : 21 : 26 : 27	15 V 50 Hz 8P IE3 06 A 5 1.9 ft.lb 50 % 70 % 20 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 2.11 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by	10/04/0222				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			17 / 21	

#### Three Phase Induction Motor - Squirrel Cage



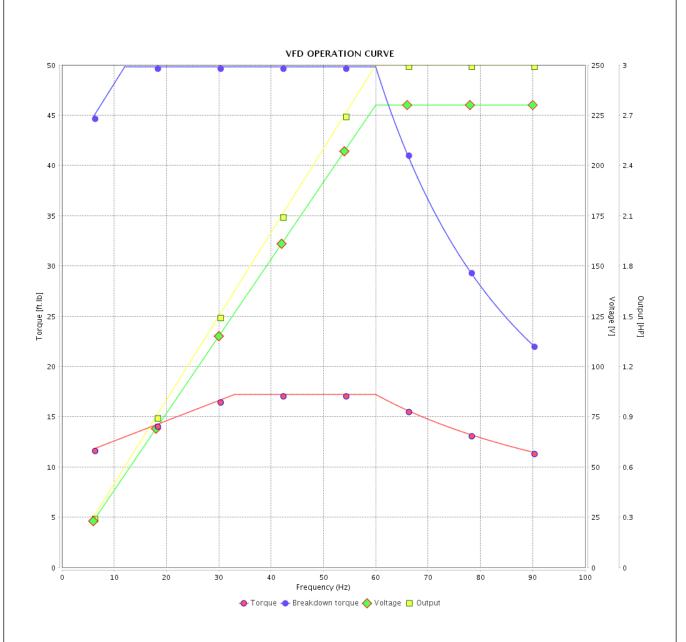
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11456657

Catalog #: 00309ET3E215T-W22



Performance	: 230/460 V 60 Hz 8P				
renormance	. 230/400 V 00 HZ 0P	1			
Rated current	: 9.10/4.55 A	Moment of in	nertia (J)	: 2.11 sq.ft.lb	
LRC	: 6.8	Duty cycle		: Cont.(S1)	
Rated torque	: 18.1 ft.lb	Insulation class		: F ` ´	
Locked rotor torque	: 229 %	Service factor		: 1.25	
Breakdown torque	: 275 %	Temperature rise		: 80 K	
Rated speed	: 870 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

18 / 21

13/04/2022

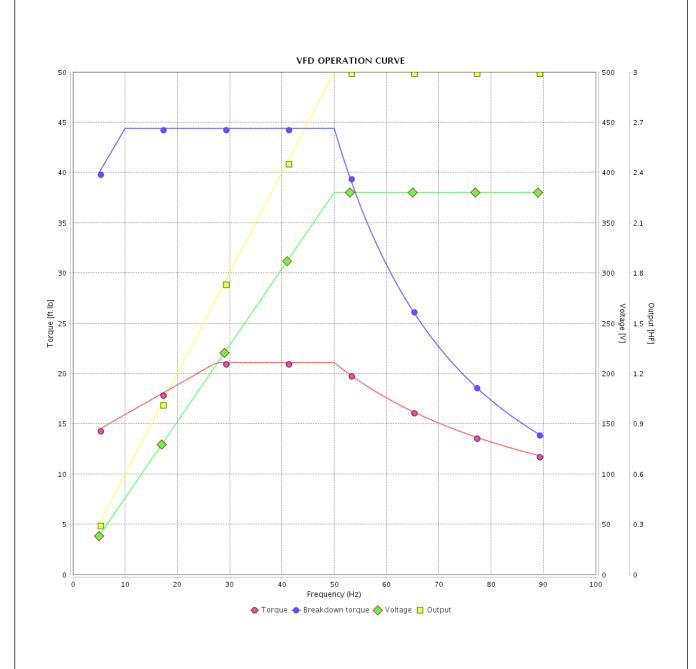
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11456657

Catalog #: 00309ET3E215T-W22



Performance	: 3	80 V 50 Hz 8P IE3				
Rated current				f inertia (J)	: 2.11 sq.ft.lb	
LRC	: 5		Duty cycle	` '	: Cont.(S1)	
Rated torque	: 2	2.2 ft.lb	Insulation		: F	
Locked rotor torqu	ie : 1	80 %	Service fa	ctor	: 1.25	
Breakdown torque : 200 %		00 %	Temperati	Temperature rise		
Rated speed	: 7	10 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				19 / 21	

#### Three Phase Induction Motor - Squirrel Cage

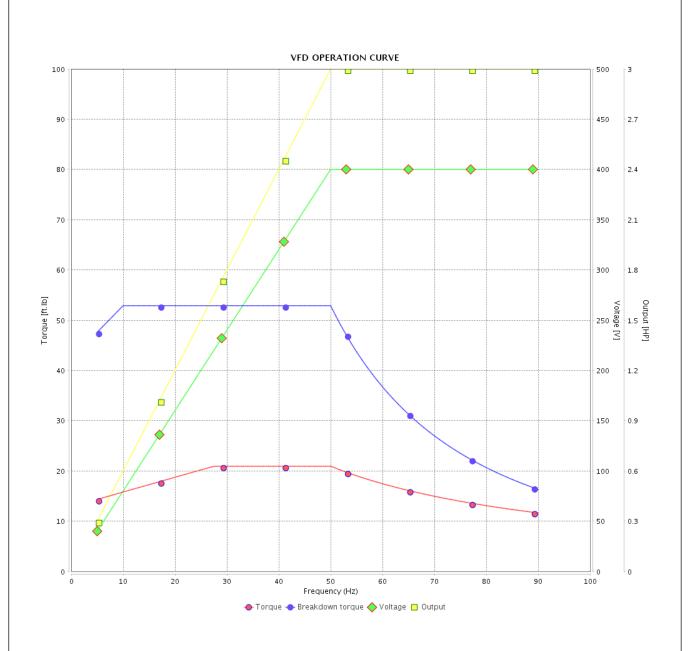


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11456657

Phase

Catalog #: 00309ET3E215T-W22



					1	
Performance	: 40	00 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6. : 22 que : 22 ie : 24	20 A 0 2.0 ft.lb 20 % 10 % 15 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.11 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Summary	- 1	Performed	Checked	Date
Performed by						
Checked by					Page	Revision

20 / 21

13/04/2022

#### Three Phase Induction Motor - Squirrel Cage



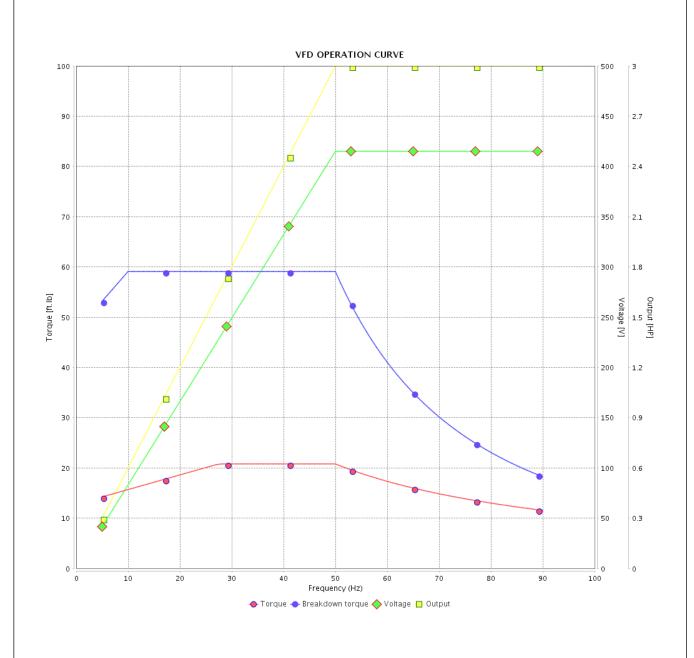
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11456657

Phase

Catalog #: 00309ET3E215T-W22

21 / 21



Performance	: 415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.06 A : 6.5 : 21.9 ft.lb : 260 % : 270 % : 720 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.11 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

