### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12674953

Phase

Catalog #: 00118OT3E143T-SG Frame : 143/5T Cooling method : IC01 - ODP 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> : 34.9 lb Altitude Design : B Moment of inertia (J) : 0.1101 sq.ft.lb Output [HP] 1 1 Poles 4 4 Frequency [Hz] 60 50 50 220/415 Rated voltage [V] 230/460 190/380 Rated current [A] 3.02/1.51 3.44/1.72 3.15/1.67 L. R. Amperes [A] 24.2/12.1 22.4/11.2 22.4/11.9 LRC [A] 8.0x(Code L) 6.5x(Code J) 7.1x(Code K) No load current [A] 1.92/0.958 1.88/0.942 1.93/1.02 Rated speed [RPM] 1760 1445 1450 Slip [%] 2.22 3.67 3.33 Rated torque [ft.lb] 2.98 3.63 3.62 Locked rotor torque [%] 290 200 229 Breakdown torque [%] 360 270 300 Service factor 1.15 1.15 Temperature rise 80 K 80 K 80 K 0s (cold) 0s (hot) 0s (cold) 0s (hot) Locked rotor time 39s (cold) 22s (hot) Noise level<sup>2</sup> 52.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 79.9 82.2 80.7 50% 81.5 81.9 81.0 Efficiency (%) 75% 84.0 83.4 83.2 100% 85.5 82.6 83.1 25% 0.29 0.34 0.31

0.59

0.73

0.80

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

Bearing type : 6205 ZZ 6203 ZZ Max. traction : 77 lb Sealing : Without Without Max. compression : 112 lb

Bearing Seal Bearing Seal

0.51

0.65

0.73

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

Notes

Power Factor

USABLE @208V 3.34A SF 1.00 SFA 3.34A

50%

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.

0.55

0.69

0.78

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			1 / 16	

### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



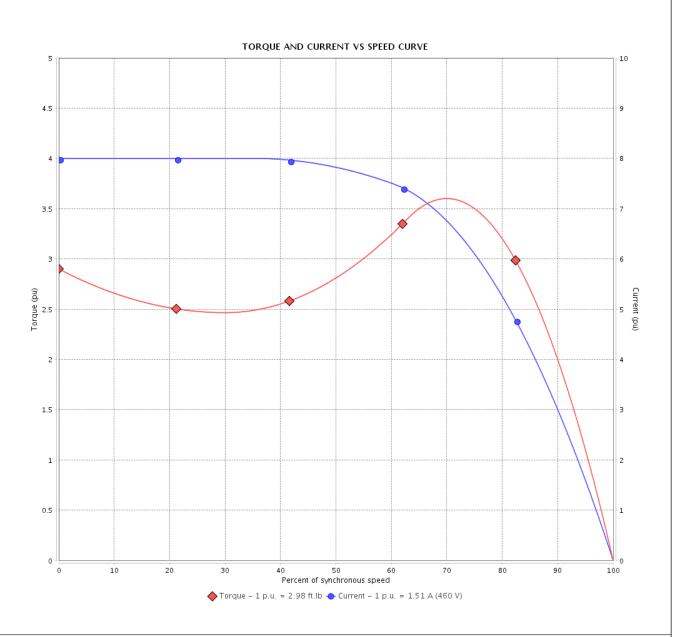
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12674953

Catalog #: 00118OT3E143T-SG



Performance : 230/460 V 60 Hz 4P Rated current : 3.02/1.51 A Moment of inertia (J) : 0.1101 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) : F : 2.98 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 290 % : 80 K Breakdown torque : 360 % Temperature rise Rated speed : 1760 rpm Design : B

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2 / 16	

### TORQUE AND CURRENT VS SPEED CURVE



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12674953 Catalog #: 00118OT3E143T-SG TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 3.63 ft.lb ◆ Current - 1 p.u. = 1.72 A (380 V) Performance : 190/380 V 50 Hz 4P Rated current : 3.44/1.72 A Moment of inertia (J) : 0.1101 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 3.63 ft.lb : 200 % Locked rotor torque Service factor : 1.15 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1445 rpm Design : B Locked rotor time : 0s (cold) 0s (hot)

Performed

Checked

Page

3/16

Date

Revision

**Changes Summary** 

Rev.

Performed by Checked by

Date

14/04/2022

### TORQUE AND CURRENT VS SPEED CURVE

### Three Phase Induction Motor - Squirrel Cage



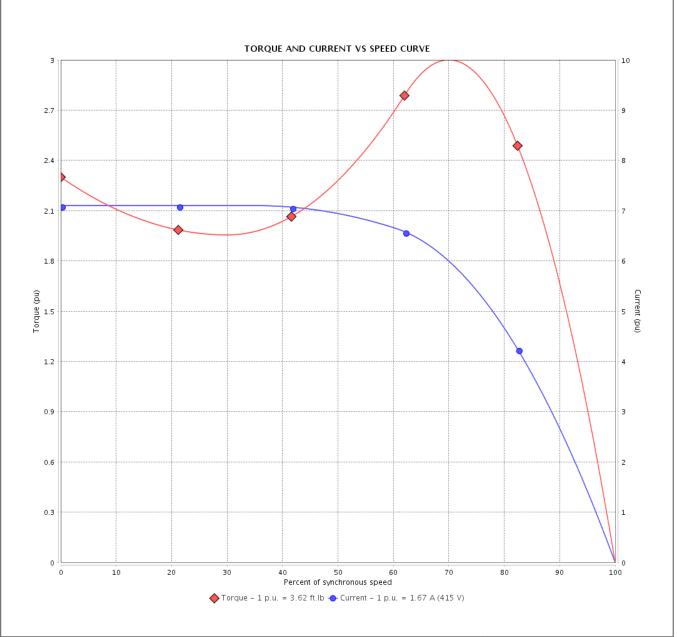
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12674953

Catalog #: 00118OT3E143T-SG



Performance	: 220/415 V 50 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.15/1.67 A : 7.1 : 3.62 ft.lb : 229 % : 300 % : 1450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1101 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B
Locked reter time	: Os (cold) Os (bot)	I	

Locked rotor time : 0s (cold) 0s (hot)

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			4 / 16	

### LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

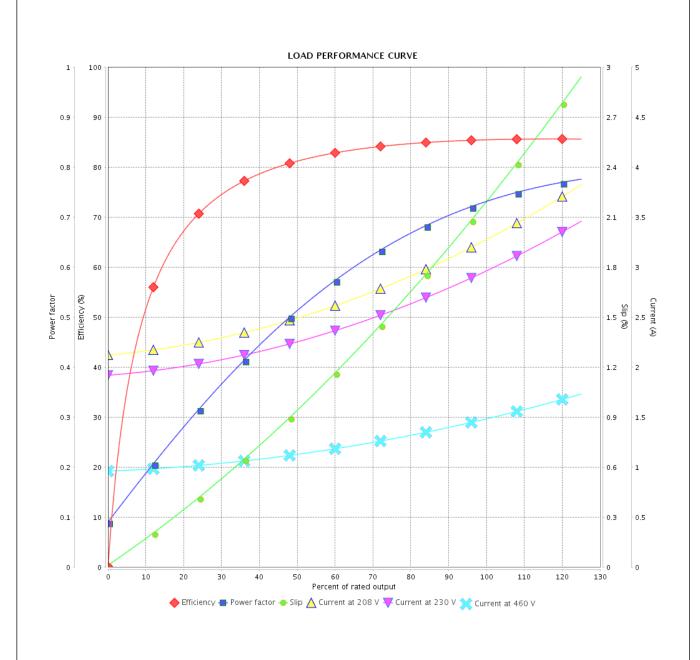


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12674953

Phase

Catalog #: 00118OT3E143T-SG



Performance	: 230/460 V 60 Hz 4P	60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.02/1.51 A : 8.0 : 2.98 ft.lb : 290 % : 360 % : 1760 rpm	Moment of Duty cycle Insulation c Service fact Temperatur Design	lass tor	: 0.1101 sq.ft.l : Cont.(S1) : F : : 80 K : B	b
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

5/16

14/04/2022

### LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

14/04/2022

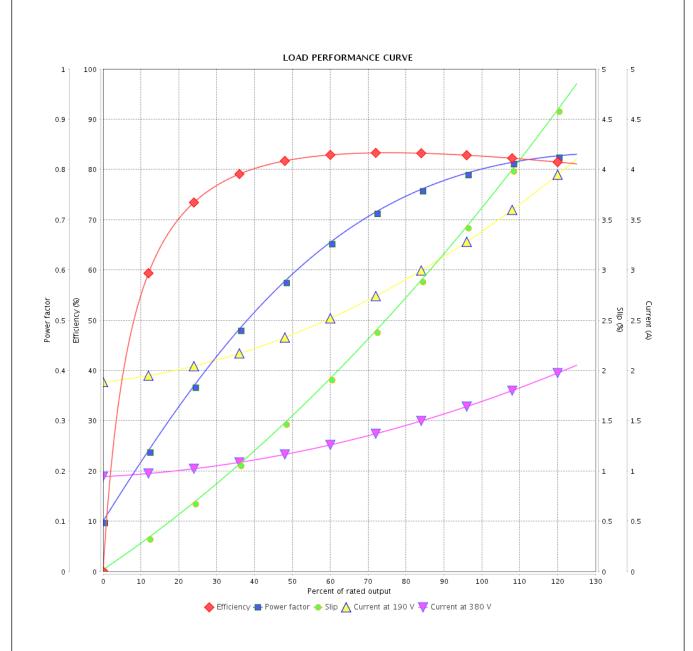
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00118OT3E143T-SG

12674953

6/16



Performance : 190/380 V 50 Hz 4P Rated current : 3.44/1.72 A Moment of inertia (J) : 0.1101 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 Insulation class Rated torque : 3.63 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1445 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

### LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

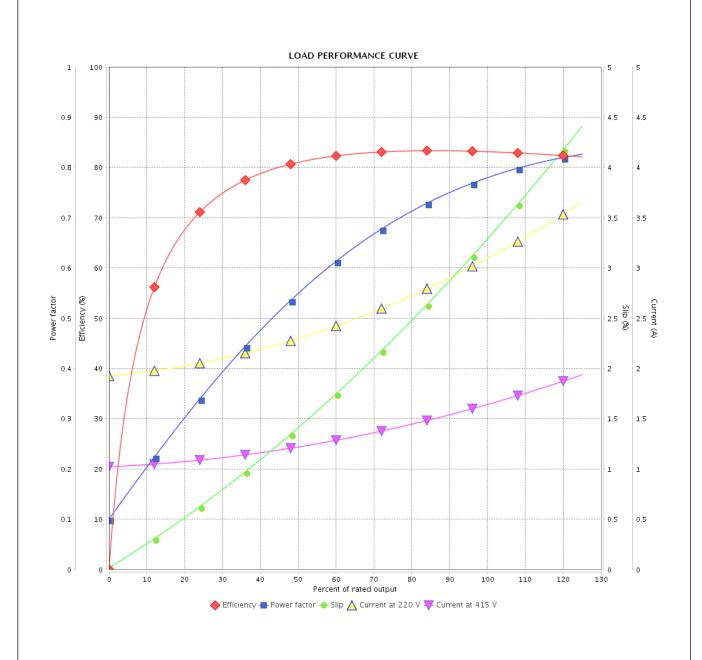


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12674953

Phase

Catalog #: 00118OT3E143T-SG



Performance	: 220/415 V 50 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.15/1.67 A : 7.1 : 3.62 ft.lb : 229 % : 300 % : 1450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 7.1 Duty cycle : 3.62 ft.lb Insulation class : 229 % Service factor : 300 % Temperature rise		: 0.1101 sq.ft.l : Cont.(S1) : F : 1.15 : 80 K : B	lb
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							
Checked by				Page	Revision		

7 / 16

14/04/2022

### Three Phase Induction Motor - Squirrel Cage

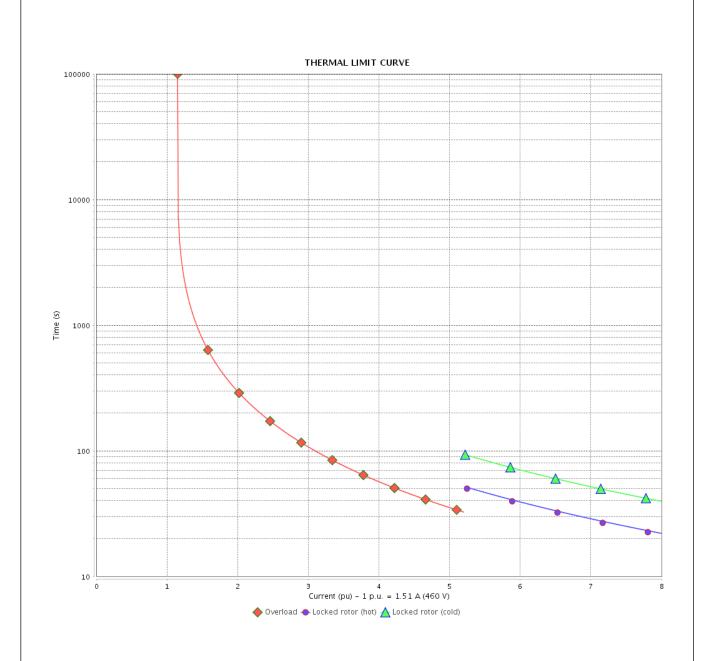


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12674953	
	P	hase		Catalog # :	00118OT3E1	43T-SG
Performance		30/460 V 60 Hz 4P				
Rated current LRC	: 3. : 8.	02/1.51 A	Moment of Duty cycle	f inertia (J)	: 0.1101 sq.ft.ll : Cont.(S1)	b
Rated torque	: 2.	98 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		90 % 60 %	Service fa Temperatu		: : 80 K	
Rated speed		760 rpm	Design	110 113 <del>0</del>	: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Porformed by						
Performed by Checked by		_			Page	Revision
Onecked by	4.4/0.4/0.00				i-aye	I/CAISIO[]

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			9 / 16	

### Three Phase Induction Motor - Squirrel Cage

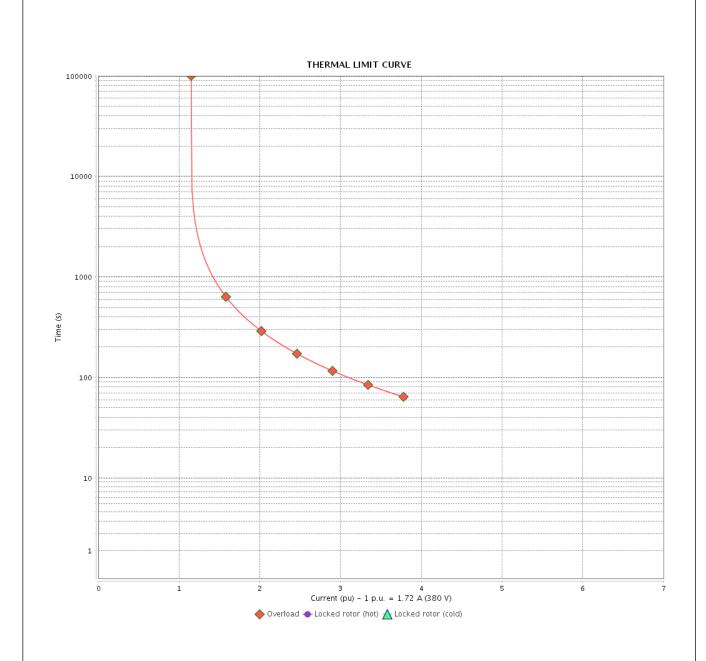


Customer	:				<u> </u>
Gustomer	•				
Product line	: NEMA Premium Efficiency <sup>-</sup> Phase	Three- I	Product code :	12674953	
	i ilase	(	Catalog # :	00118OT3E14	3T-SG
	: 190/380 V 50 Hz 4P	Moman	Finantic (I)	. 0 4404 4 11	
	: 3.44/1.72 A : 6.5	Moment of Duty cycle	r ineπia (J)	: 0.1101 sq.ft.lb : Cont.(S1)	
Rated torque	: 3.63 ft.lb	Insulation	class	: F	
	: 200 % : 270 %	Service fac		: 1.15 : 80 K	
	: 270 % : 1445 rpm	Temperatu Design	iie IISE	: 80 K : B	
Heating constant					
Cooling constant	01 0	Г	- D		
Rev.	Changes Summary		Performed	Checked	Date
Darfarmad by					
Performed by				D	Dovisio-
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			11 / 16	

### Three Phase Induction Motor - Squirrel Cage

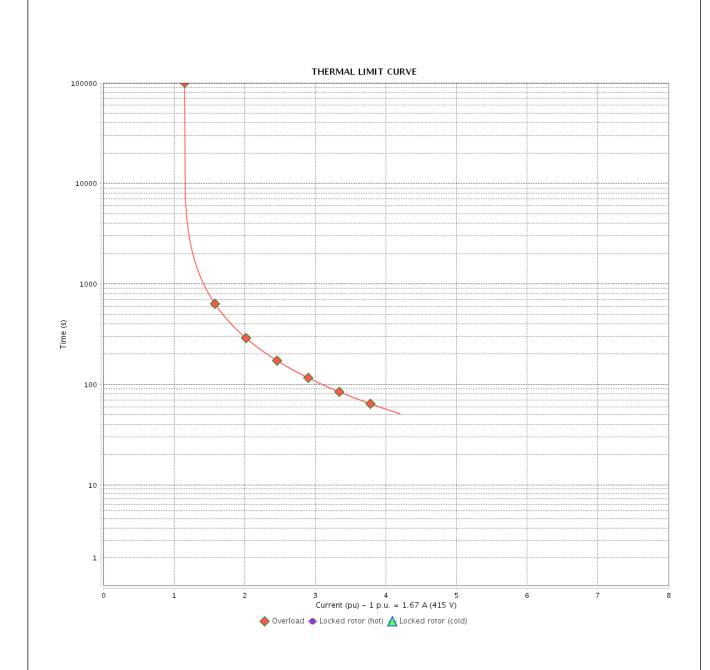


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	12674953	
		Tilasc		Catalog # :	00118OT3E1	43T-SG
Performance		: 220/415 V 50 Hz 4P				
Rated current		: 3.15/1.67 A	Moment of	of inertia (J)	: 0.1101 sq.ft.ll	b
LRC	:	: 7.1	Duty cycl	е	: Cont.(S1)	
Rated torque Locked rotor torq		: 3.62 ft.lb : 229 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ie :	: 300 %	Temperat		: 80 K	
Rated speed		: 1450 rpm	Design		: B	
Heating constant						
Cooling constant		01 0			OI	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				12 / 16	IVENISION

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			13 / 16	

## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



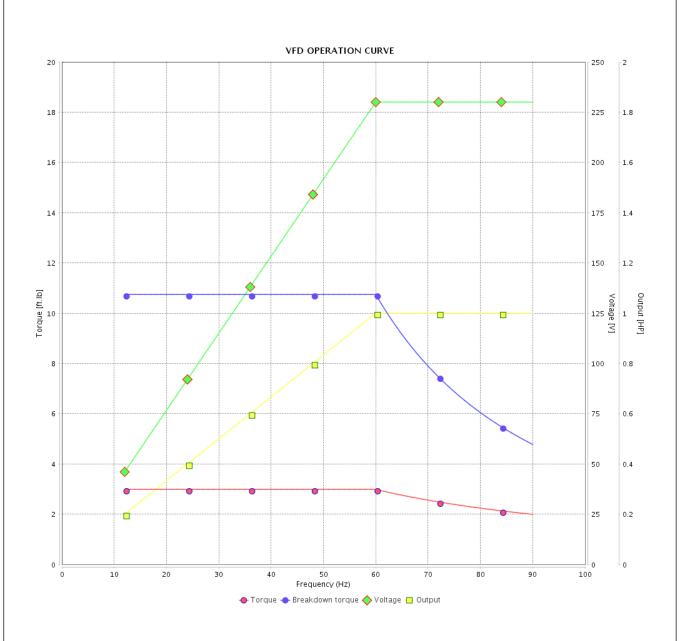
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 12674953

Catalog #: 00118OT3E143T-SG



Performance	: 230/460 V 60 Hz 4P			
Rated current	: 3.02/1.51 A Moment of inertia (J)		: 0.1101 sq.ft.lb	
LRC Rated torque	: 8.0 : 2.98 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F : : 80 K : B	
Locked rotor torque	: 290 %	Service factor		
Breakdown torque Rated speed	: 360 % : 1760 rpm	Temperature rise Design		
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

14 / 16

14/04/2022

## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



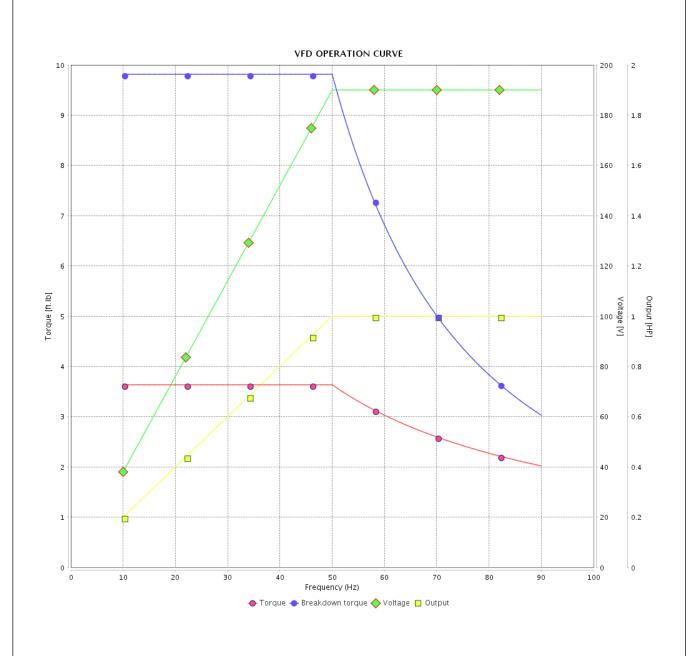
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12674953

Phase

Catalog #: 00118OT3E143T-SG

15 / 16



Performance	: 190/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.44/1.72 A : 6.5 : 3.63 ft.lb : 200 % : 270 % : 1445 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		ruty cycle : Cont.(S1) resulation class : F ervice factor : 1.15 emperature rise : 80 K	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

14/04/2022

### VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

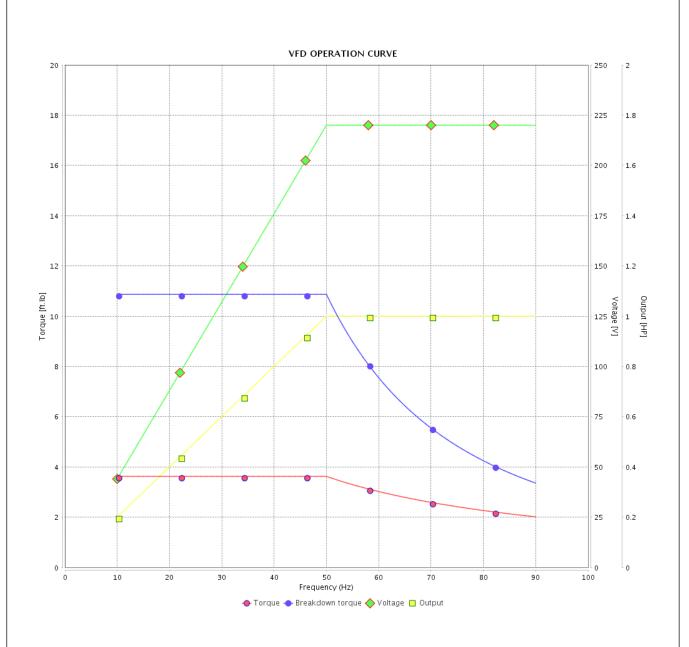
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00118OT3E143T-SG

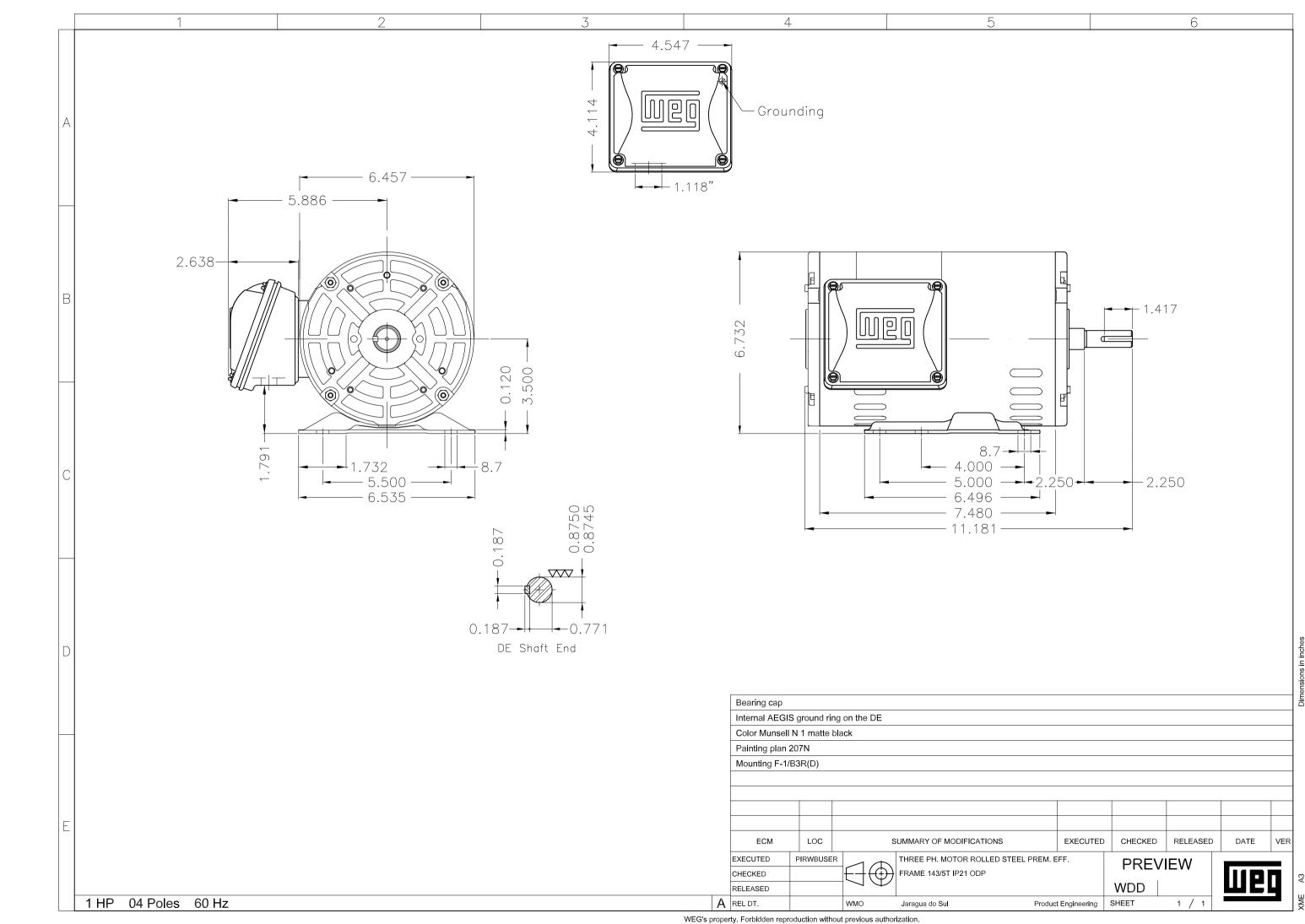
12674953

16 / 16



Performance	: 220/415 V 50 Hz 4P					
Rated current	: 3.15/1.67 A	Moment of inertia (J)		: 0.1101 sq.ft.lb		
LRC	: 7.1	Service factor Temperature rise		: Cont.(S1) : F : 1.15 : 80 K : B		
Rated torque	: 3.62 ft.lb					
Locked rotor torque	: 229 %					
Breakdown torque	: 300 %					
Rated speed	: 1450 rpm					
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						
Checked by				Page	Revision	

14/04/2022





MADE IN MÉXICO

S Su Su

(**UL)**US LISTED

3PT9

Energy Verifi

CC029A N01.TODICOXON 12674953

MODEL 001180T3E143T-SG 9 ä 4 143/5T 5MAR2022

DES 1000 m.a.s.l F AT 80K CONT 2°04 900

NSC

3.02/1.51 3.47/1.74 230/460 0.75

1.15

3FA 쑮 쌆

> 1.0HP CODE

SABLE @ 208V 3.34A

SF1.00 INC. 2

NOM EFF 1445RPM ZPM 50 Hz

85.5%

3.44-3.15/1.72-1.67A

LTERNATE RATING:

IEC 60034-1

5:1 CT

SF1.15

190-220/380-415V

**EFF 82.6%** 

Inverter duty motor For 80Hz use on VPWM 1000:1 VT.

8203-ZZ

ODE

8205-ZZ

牌

9

2

MOBIL POLYREX EM 5

T9-BRK RED 13-ORG 1-BLU I7-PNK F5-BLK

shocks. Disconnect power source before servicing unit. NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical

choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine



conformément aux codes électriques locaux et nationaux afin d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre