#### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 12674953

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> Altitude : 15.8 kg : 0.0046 kgm² Design : B Moment of inertia (J) Output [HP] 1 1 Poles 4 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 [kgfm] 0.412 0.502 0.501 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 50% 0.51 0.59 0.55 Power Factor 75% 0.65 0.73 0.69

Non drive end Foundation loads Drive end 6205 ZZ 6203 ZZ

0.73

Bearing type : 35 kgf Max. traction Sealing Without Without Max. compression : 50 kgf

Bearing Seal Bearing Seal Lubrication interval

Lubricant amount Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 3.34A SF 1.00 SFA 3.34A

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.

0.78

0.80

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	22/03/2021			1 / 16	

#### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



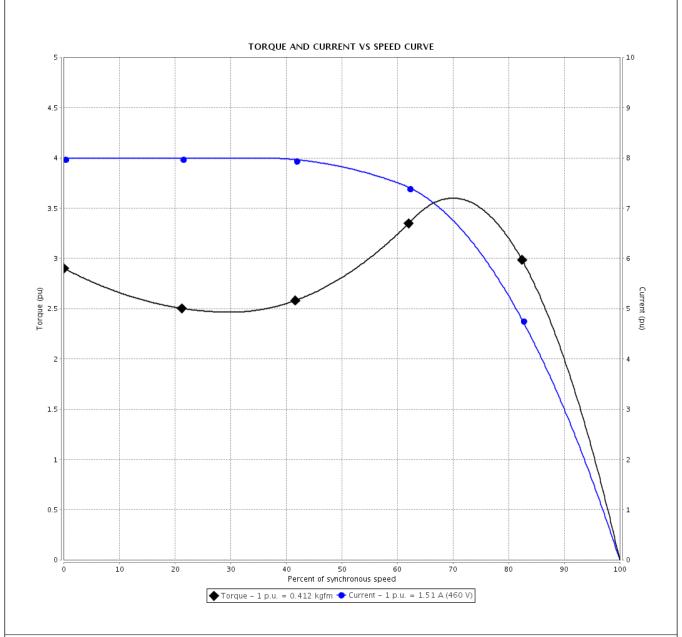
Customer :

Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 12674953

Catalog #: 00118OT3E143T-SG



: 230/460 V 60 Hz 4P Performance Rated current : 3.02/1.51 A Moment of inertia (J) : 0.0046 kgm<sup>2</sup> **LRC** : 8.0 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 0.412 kgfm Locked rotor torque : 290 % Service factor Breakdown torque : 360 % Temperature rise : 80 K 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	22/03/2021			2 / 16	

### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



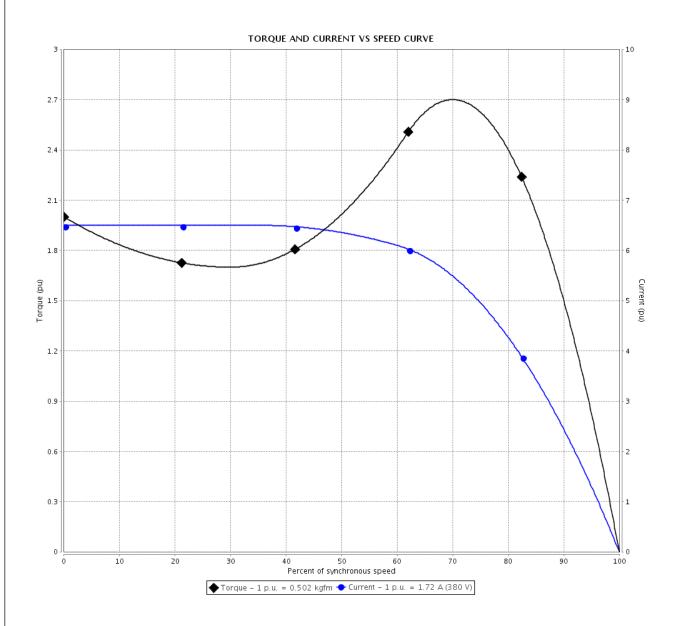
Customer :

Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 12674953

Catalog #: 00118OT3E143T-SG



Performance	: 190/380 V 50 Hz 4P		
Rated current	: 3.44/1.72 A	Moment of inertia (J)	: 0.0046 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 0.502 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1445 rpm	Design	: B
Locked rotor time	: Os (cold) Os (bot)	J	<del>.</del>

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	22/03/2021			3 / 16	

#### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



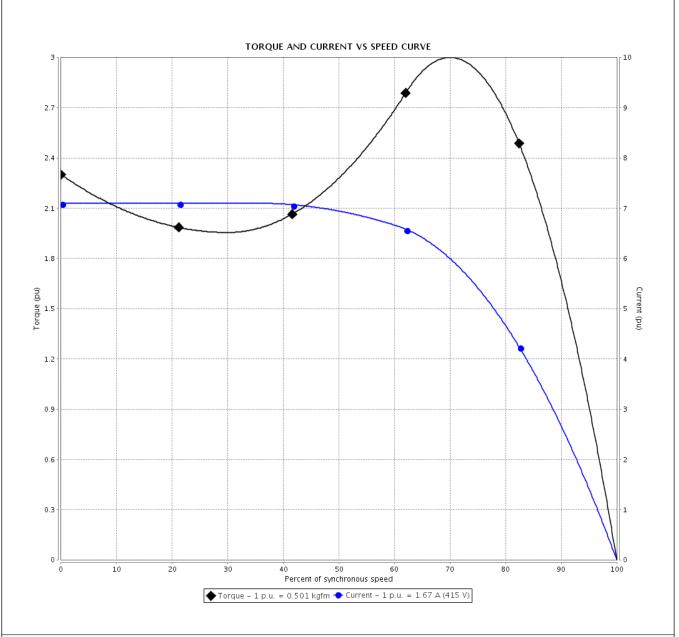
Customer :

Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 12674953

Catalog #: 00118OT3E143T-SG



Performance : 220/415 V 50 Hz 4P Rated current : 3.15/1.67 A Moment of inertia (J) : 0.0046 kgm<sup>2</sup> **LRC** : 7.1 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 0.501 kgfm Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	22/03/2021			4 / 16	

### LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



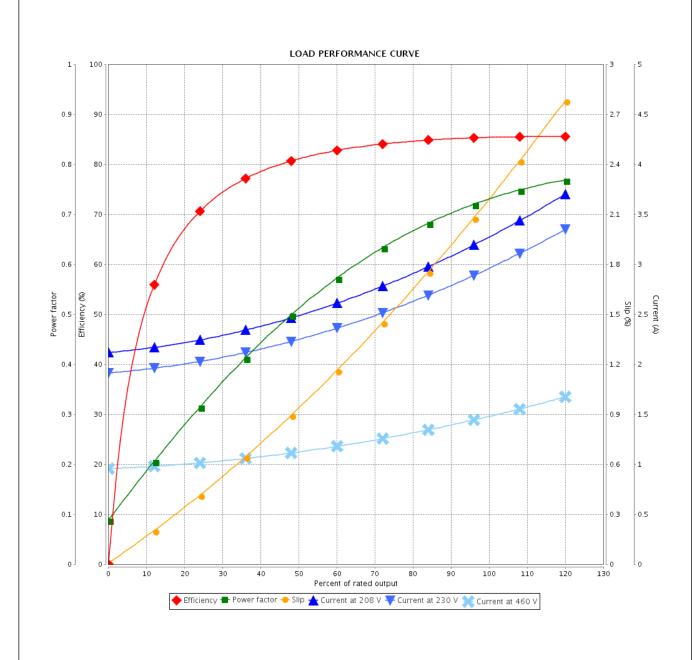
Customer

Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 12674953

Catalog #: 00118OT3E143T-SG



Performance	: 2	230/460 V 60 Hz 4P				
Rated current	: :	3.02/1.51 A	Moment o	f inertia (J)	: 0.0046 kgm²	
LRC	: 8	3.0	Duty cycle	!	: Cont.(S1)	
Rated torque	: (	).412 kgfm	Insulation	class	: F	
Locked rotor torq	ue : 2	290 %	Service fa	ctor	:	
Breakdown torqu	ie :3	360 %	Temperature rise		: 80 K	
Rated speed	: 1	1760 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	22/03/2021				5 / 16	

### LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



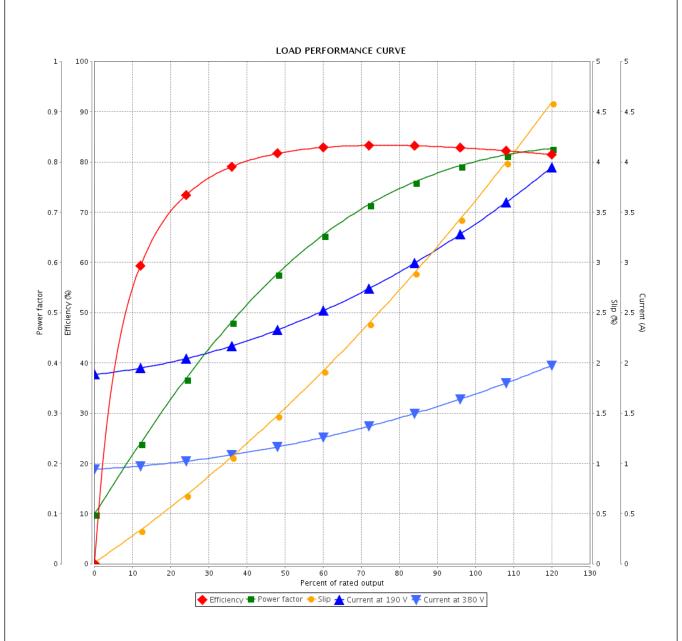
Customer :

Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 12674953

Catalog #: 00118OT3E143T-SG



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 : 0.502 kgfm : 200 % : 270 % : 1445 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 0.0046 kgm <sup>2</sup> : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

6/16

22/03/2021

Date

### LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



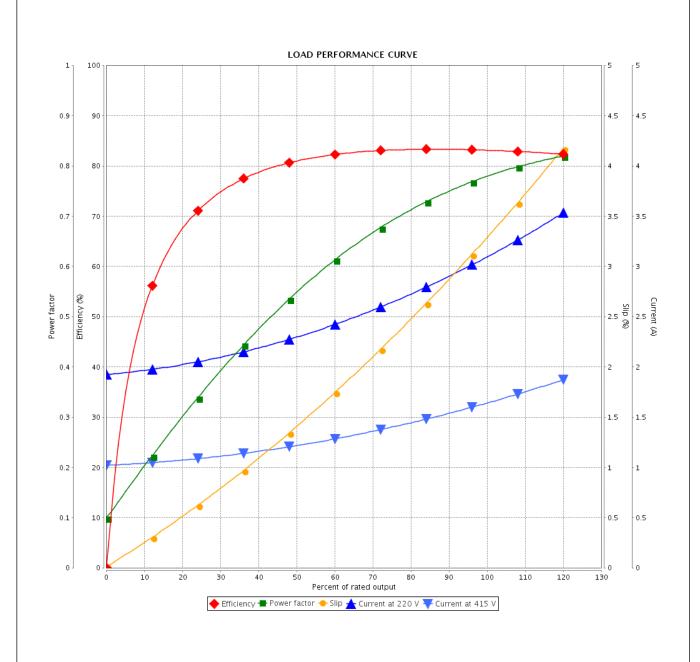
Customer

Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 12674953

Catalog #: 00118OT3E143T-SG



Performance		: 220/415 V 50 Hz 4P					
Rated current	: 3	3.15/1.67 A	Moment o	f inertia (J)	: 0.0046 kgm²		
LRC	: 7	7.1	Duty cycle	<b>;</b>	: Cont.(S1)		
Rated torque	: (	).501 kgfm	Insulation	class	: F		
Locked rotor torque	e : 2	229 %	Service fa	ctor	: 1.15		
Breakdown torque	: 3	300 %	Temperature rise		: 80 K		
Rated speed	: 1	1450 rpm	Design		: B		
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
Checked by		7			Page	Revision	
Date	22/03/2021				7 / 16		

#### Three Phase Induction Motor - Squirrel Cage

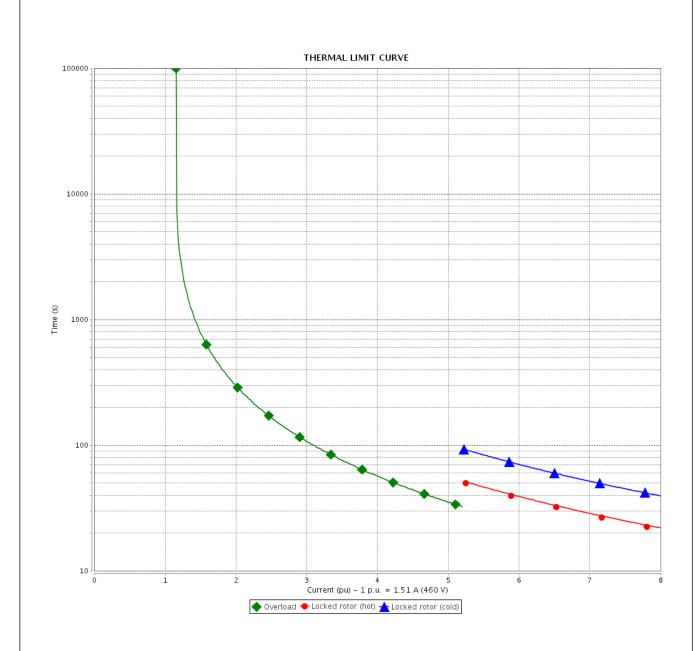


Customer	:				·	
Product line		Rolled Steel NEMA Premius Efficiency Three-Phase	m	Product code :	12674953	
	-	indicately trace trace		Catalog # :	00118OT3E1	143T-SG
Performance	: 2	230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 3 : 8 : 0 que : 2 ue : 3	3.02/1.51 A 3.0 0.412 kgfm 290 % 360 % 1760 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0046 kgm² : Cont.(S1) : F : : 80 K : B	
Heating constant			-			
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by					Page	Revision
Date	22/03/2021	_			8 / 16	LANOIOII

#### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	22/03/2021	1		9 / 16	

#### Three Phase Induction Motor - Squirrel Cage

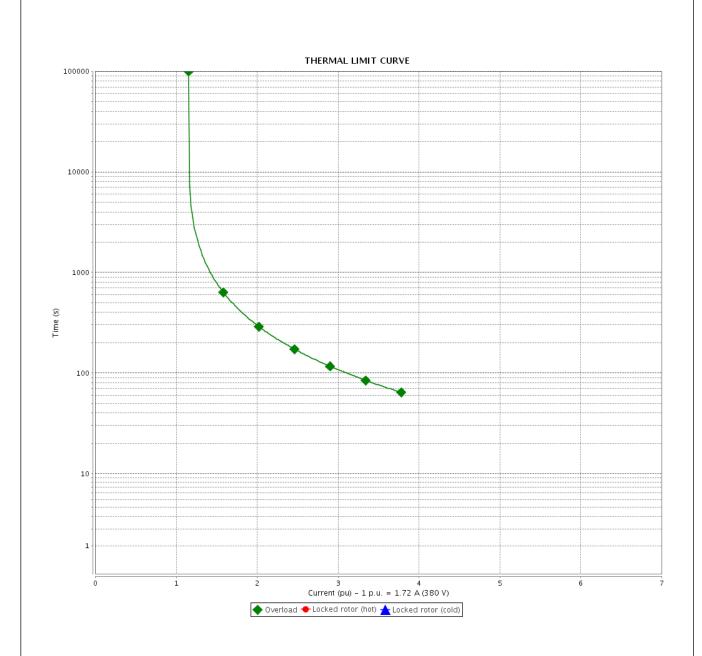


Customer		:				
Product line		: Rolled Steel NEMA Premiu Efficiency Three-Phase	m	Product code :	12674953	
		Ellicition Tillice I flage		Catalog # :	00118OT3E14	13T-SG
Performance	, !	: 190/380 V 50 Hz 4P				
Rated current		: 3.44/1.72 A	Moment of	of inertia (J)	: 0.0046 kgm²	
LRC Rated torque		: 6.5 : 0.502 kgfm	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	: 200 %	Service fa	actor	: 1.15	
Breakdown torqu		: 270 %	Temperat	ure rise	: 80 K : B	
Rated speed		: 1445 rpm	Design		. Б	
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
		g				
Performed by						
Checked by					Page	Revision
Date	22/03/2021				10 / 16	

#### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	22/03/2021			11 / 16	

#### Three Phase Induction Motor - Squirrel Cage

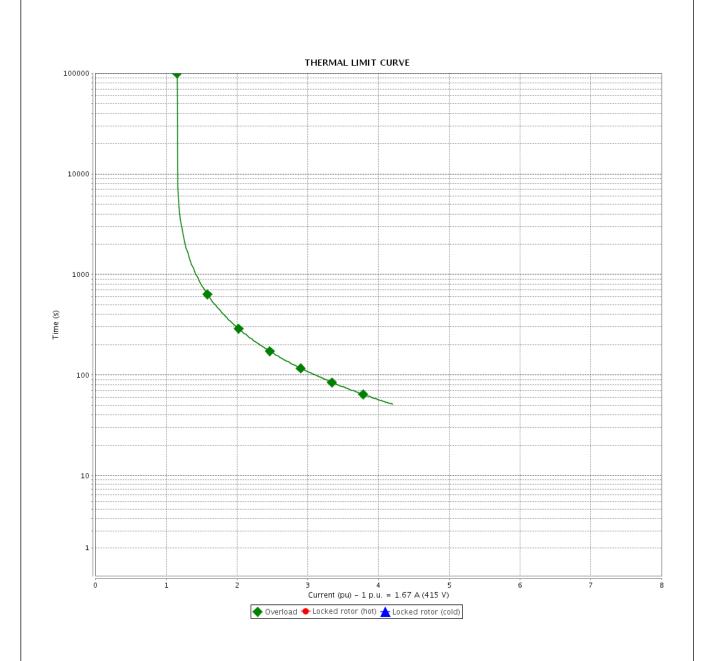


Customer	:				
Product line	: Rolled Steel NEMA Premiu Efficiency Three-Phase		Product code : Catalog # :	12674953 001180T3E1	43T-SG
			-		
Dorformono	. 220/445 V 50 H= 4D				
Performance Rated current	: 220/415 V 50 Hz 4P : 3.15/1.67 A	Moment of	f inertia (J)	: 0.0046 kgm²	
LRC	: 7.1	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque Locked rotor torque	: 0.501 kgfm : 229 %	Insulation Service fa		: F : 1.15	
Breakdown torque	: 300 %	Temperatu		: 80 K	
Rated speed	: 1450 rpm	Design		: B	
Heating constant Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
	<u> </u>				
Performed by				1	
Checked by				Page	Revision
Data 22/03/202	)1		J	12/16	

#### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	22/03/2021			13 / 16	

### VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



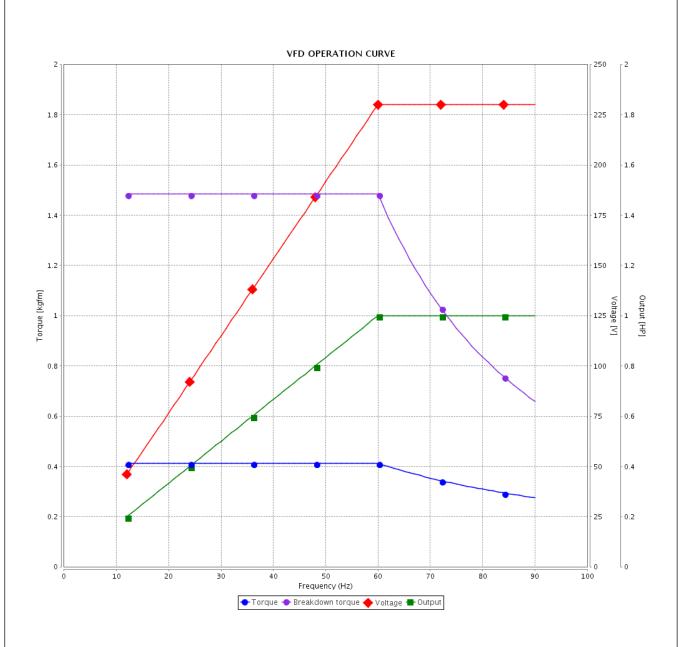
Customer :

Product line : Rolled Steel 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		class ctor	: 0.0046 kgm² : Cont.(S1) : F : : 80 K		
Rated speed	: 1760 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

14/16

22/03/2021

Date

### VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



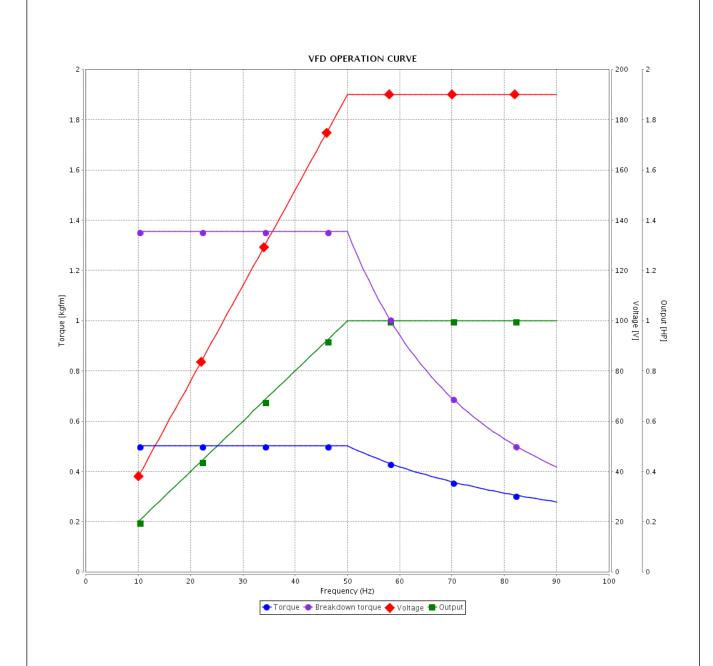
Customer

Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 12674953

Catalog #: 00118OT3E143T-SG



Performance	: 19	90/380 V 50 Hz 4P				
Rated current	: 3.	44/1.72 A	Moment o	f inertia (J)	: 0.0046 kgm²	!
LRC	: 6.	5	Duty cycle : Cont.(S1)			
Rated torque	: 0.	502 kgfm	Insulation	class	: F	
Locked rotor torg	jue : 20	00 %	Service fa	ctor	: 1.15	
Breakdown torqu	ie : 27	70 %	Temperati	ıre rise	: 80 K	
Rated speed	: 14	145 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
,					_	
Checked by					Page	Revision
Date	22/03/2021				15 / 16	

### VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



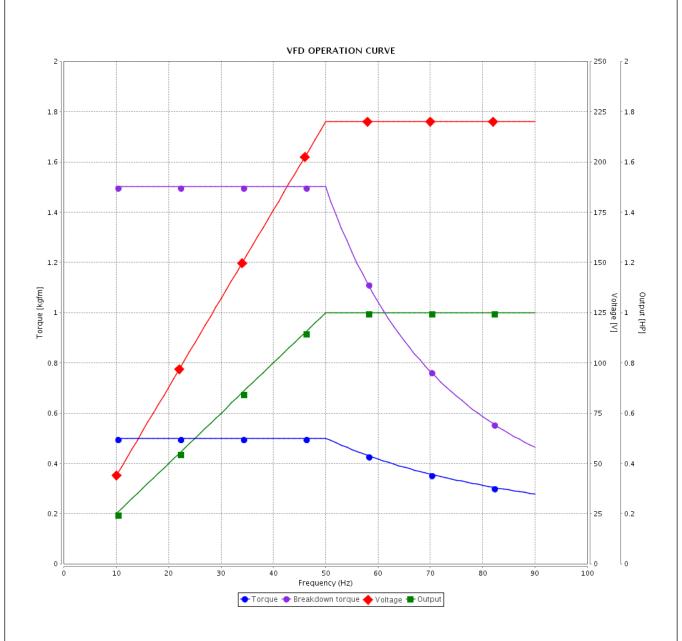
Customer :

Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 12674953

Catalog #: 00118OT3E143T-SG

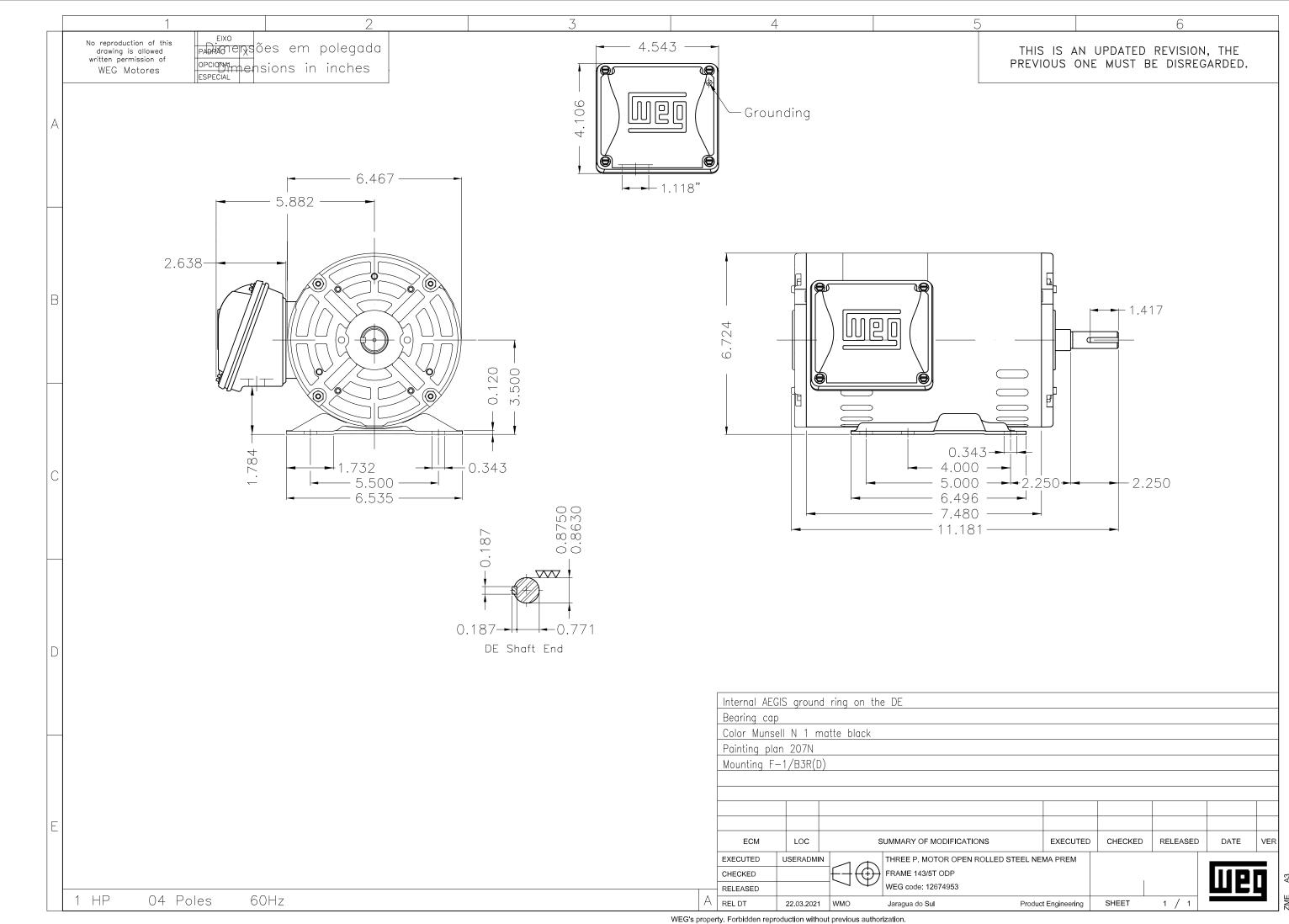


Performance	: 220/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.15/1.67 A : 7.1 : 0.501 kgfm : 229 % : 300 % : 1450 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 0.0046 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by Checked by				Page	Revision

16 / 16

22/03/2021

Date



MADE IN MÉXICO

**UL)**US LISTED 3PT9

(**A**) Energy Verified

12021 B	3 Hz	143/5T	CONT
B/N:	60		

1000 m a s

F AT 80K

SCL

MODEL 001180T3E143T-SG

N01.TODICOXON

12674953

230/460 3.02/1 1.15

m	_	
DES	CODE	¥
		3.37
		208V
ပ္ရ	늄	9
14	0	ш

9 SABLE

0	- 6	2 2 2	109 145
	_		₽ .
	핒		1.0

85.5%





3.44-3.15/1.72-1.67A

LTERNATE RATING:

SF1.00 INC. 문

IEC 6003 SF1.15





8203-ZZ

ODE 2

8205-ZZ

9

T2-WHT





AVERTISSEMENT: Le moteur doit être mis à la terre





nentation avant l'entretien de la machine

conformément aux codes électriques locaux et nationaux afin d'éviter tout

choc électrique grave. Déconnectez l'alli

