DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14802348

Catalog #: 00112ET3E145TC-S

Frame : 143/5TC 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 : 39.4 lb Altitude : 0.1597 sq.ft.lb

Protection degree : IP55 Moment of inertia (J)

Design		: B		•
Output [HP]		1	1	1
Poles		6	6	6
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		3.16/1.58	3.74/1.87	3.41/1.81
L. R. Amperes [A]		18.3/9.16	16.5/8.23	16.7/8.87
LRC [A]		5.8x(Code J)	4.4x(Code F)	4.9x(Code G)
No load current [A]	2.03/1.01	2.00/1.00	2.02/1.07
Rated speed [RPN	/ []	1145	915	930
Slip [%]		4.58	8.50	7.00
Rated torque [ft.lb]		4.59	5.74	5.65
Locked rotor torque [%]		229	170	200
Breakdown torque [%]		280	200	229
Service factor			1.00	1.00
Temperature rise		80 K	105 K	105 K
Locked rotor time		55s (cold) 31s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		50.0 dB(A)	47.0 dB(A)	47.0 dB(A)
	25%	79.5	82.0	80.4
Efficiency (%)	50%	80.0	80.1	79.4
Efficiency (70)	75%	82.5	80.1	80.4
	100%	82.5	77.3	78.6
	25%	0.28	0.33	0.31
Power Factor	50%	0.50	0.58	0.54
1 OWELL ACIOI	75%	0.63	0.71	0.68
	100%	0.72	0.79	0.76

Drive end Non drive end Foundation loads

Bearing type 6205 ZZ 6203 ZZ Max. traction : 93 lb Sealing V'Ring Without Max. compression : 133 lb

Bearing Seal

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 3.49A SF 1.00 SFA 3.49A

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.

(1) / 11 100 / 10 11 10					
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2022			1 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



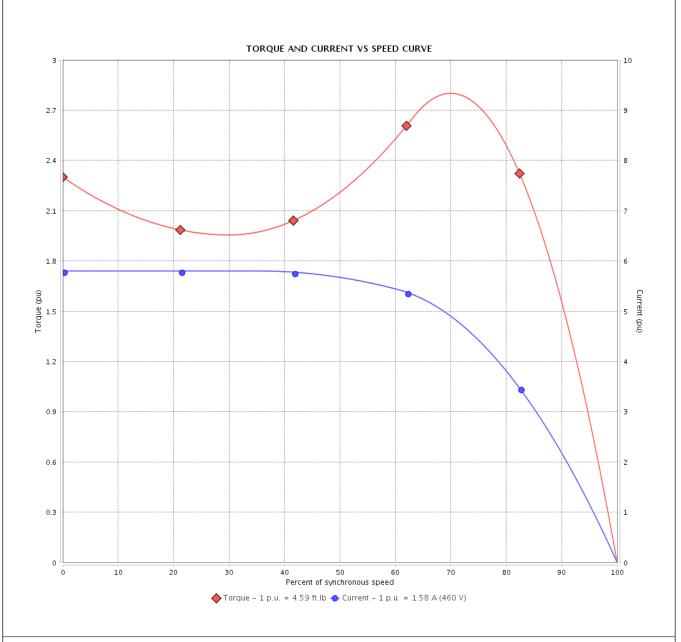
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14802348

Catalog #: 00112ET3E145TC-S



Performance : 230/460 V 60 Hz 6P Rated current : 3.16/1.58 A Moment of inertia (J) : 0.1597 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : F : 4.59 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 229 % : 80 K Breakdown torque : 280 % Temperature rise Rated speed : 1145 rpm Design : B

Locked rotor time : 55s (cold) 31s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2022			2 / 16	

TORQUE AND CURRENT VS SPEED CURVE



Revision

Page

3/16

Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14802348 Catalog #: 00112ET3E145TC-S TORQUE AND CURRENT VS SPEED CURVE 4.5 2.25 3.5 1.75 1.5 (pd) 1.25 0.5 0.25 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 5.74 ft.lb ◆ Current - 1 p.u. = 1.87 A (380 V) Performance : 190/380 V 50 Hz 6P Rated current : 3.74/1.87 A Moment of inertia (J) : 0.1597 sq.ft.lb **LRC** : 4.4 Duty cycle : Cont.(S1) : 5.74 ft.lb Insulation class : F Rated torque : 170 % Locked rotor torque Service factor : 1.00 : 105 K Breakdown torque : 200 % Temperature rise Rated speed : 915 rpm Design : B Locked rotor time : 0s (cold) 0s (hot) Date Rev. **Changes Summary** Performed Checked

Performed by Checked by

Date

11/04/2022

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



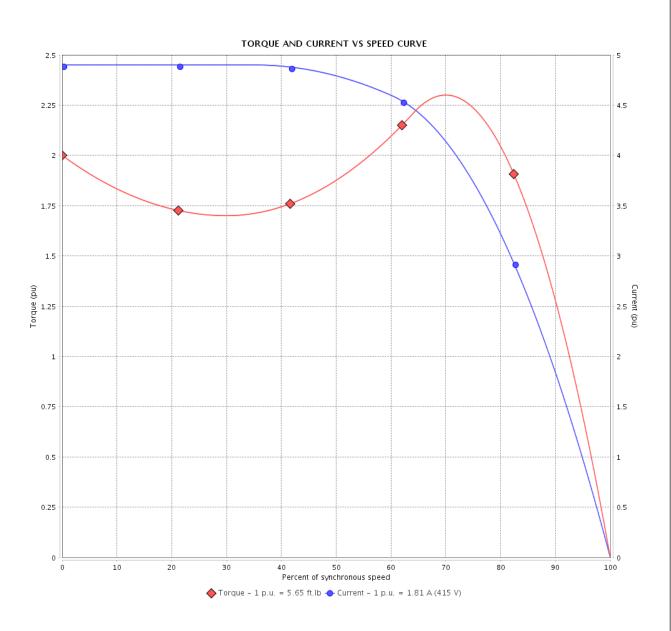
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 14802348

Catalog #: 00112ET3E145TC-S



Performance	: 220/415 V 50 Hz 6P		
Rated current	: 3.41/1.81 A	Moment of inertia (J) Duty cycle Insulation class	: 0.1597 sq.ft.lb
LRC	: 4.9		: Cont.(S1)
Rated torque	: 5.65 ft.lb		: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 930 rpm	Design	: B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2022			4 / 16	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

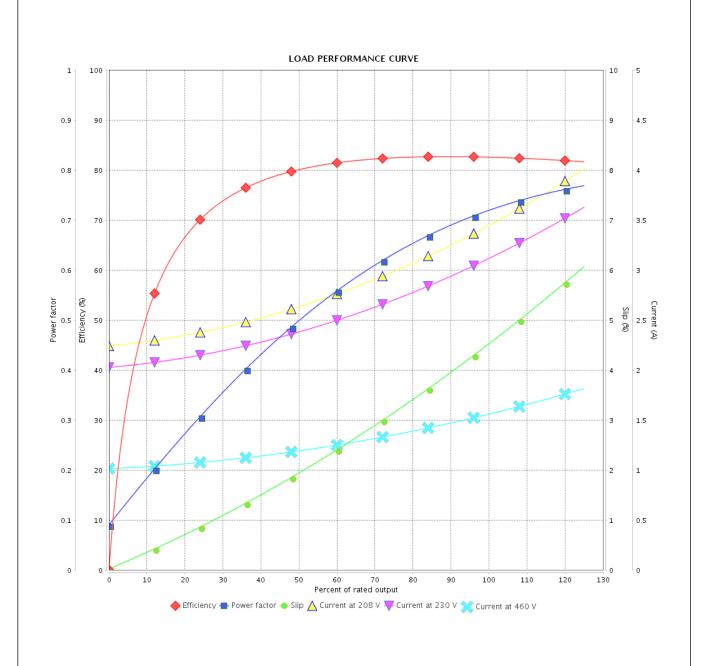


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14802348

Phase

Catalog #: 00112ET3E145TC-S



Performance	:	: 230/460 V 60 Hz 6P				
Rated current	:	3.16/1.58 A	Moment o	f inertia (J)	: 0.1597 sq.ft.lb	
LRC	:	5.8	Duty cycle	;	: Cont.(S1)	
Rated torque	:	4.59 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	229 %	Service fa	ctor	:	
		280 %	Temperature rise Design		: 80 K	
		1145 rpm			: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2022				5 / 16	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



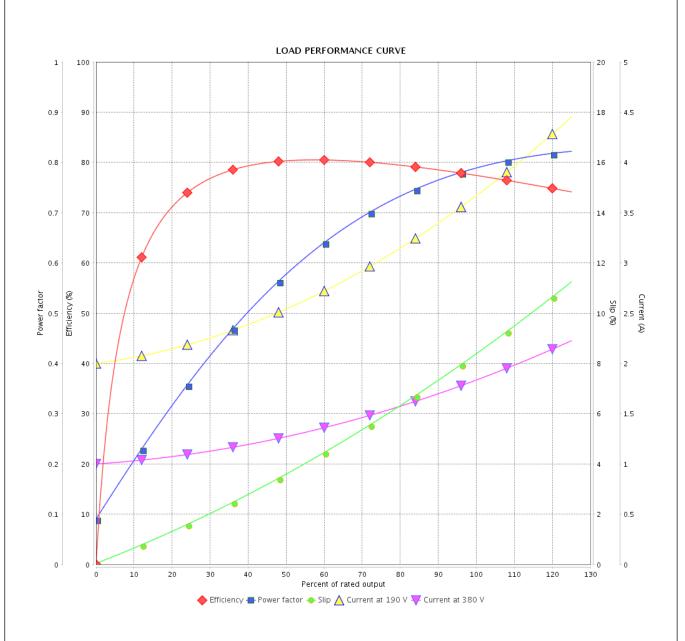
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14802348

Catalog #: 00112ET3E145TC-S



Performance	: 190/380 V 50 Hz 6P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.74/1.87 A : 4.4 : 5.74 ft.lb : 170 % : 200 % : 915 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design Performed		.4 Duty cycle : Cont.(S1 .74 ft.lb Insulation class : F 70 % Service factor : 1.00 00 % Temperature rise : 105 K		: 1.00	lb
Rev.	Changes Summary			Checked Date			
Performed by							
Checked by				Page	Revision		

6/16

11/04/2022

Date

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

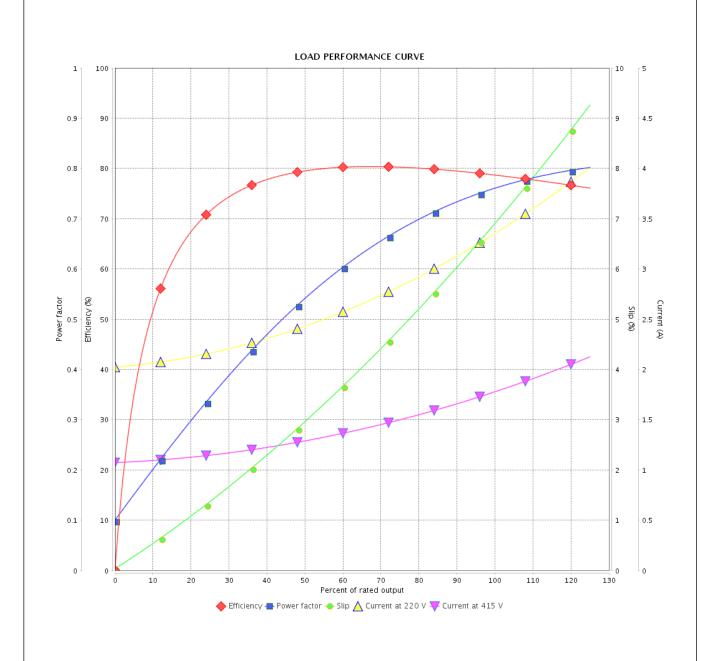


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14802348

Phase

Catalog #: 00112ET3E145TC-S



Performance	rmance : 220/415 V 50 Hz 6P					
Rated current	: 3	.41/1.81 A	Moment o	f inertia (J)	: 0.1597 sq.ft.lb	
LRC	: 4	.9	Duty cycle	!	: Cont.(S1)	
Rated torque	: 5	.65 ft.lb	Insulation	class	: F	
Locked rotor torque	: 2	00 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	29 %	Temperature rise		: 105 K	
Rated speed	: 9	: 930 rpm Design		Design		
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	11/04/2022				7 / 16	

Three Phase Induction Motor - Squirrel Cage

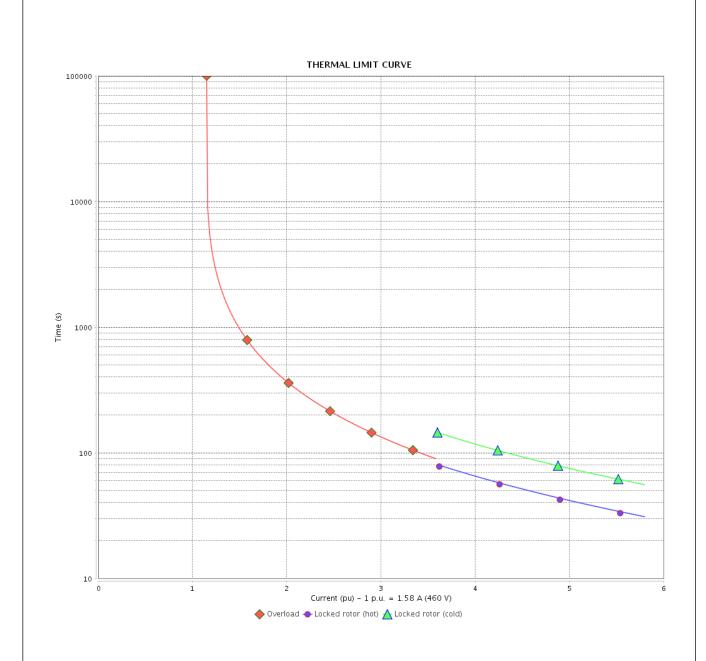


Customer		:			·	
Product line		· NEMA Promium Efficiency	Throo	Product code :	14802348	
Product line		: NEMA Premium Efficiency Phase	THIEE-	Froduct code .	14002340	
				Catalog # :	00112ET3E1	45TC-S
Dorformanaa		220/460 V 60 Hz 6D				
Performance Rated current LRC	:	230/460 V 60 Hz 6P 3.16/1.58 A 5.8	Moment of	of inertia (J)	: 0.1597 sq.ft.l : Cont.(S1)	lb
Rated torque	:	4.59 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		229 % 280 %	Service fa Temperati		: : 80 K	
Rated speed		1145 rpm	Design	u. 5 1100	: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by					Dogo	Revision
Checked by Date	11/04/2022				Page 8 / 16	KENISION

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2022			9 / 16	

Three Phase Induction Motor - Squirrel Cage

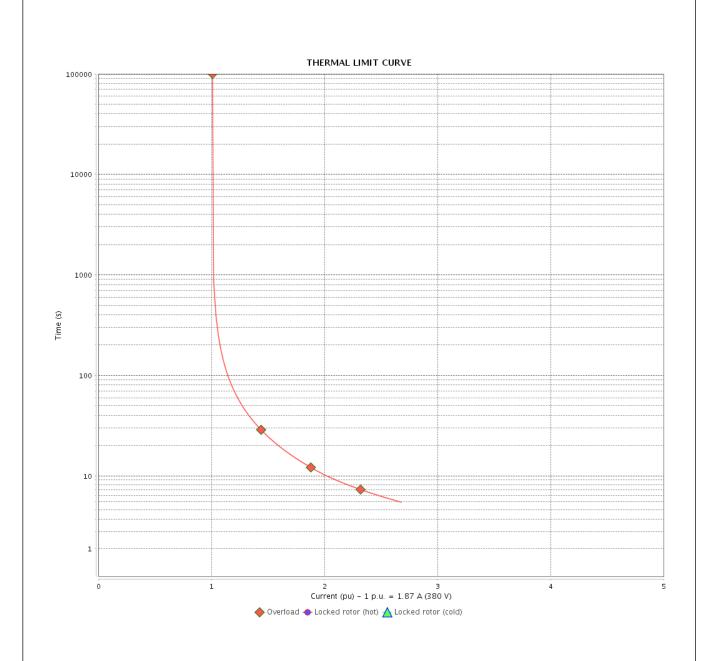


Customer	:				
Product line	: NEMA Premium Efficienc Phase		roduct code :	14802348 00112ET3E1	45TC-S
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 190/380 V 50 Hz 6P : 3.74/1.87 A : 4.4 : 5.74 ft.lb : 170 % : 200 % : 915 rpm	Moment of Duty cycle Insulation c Service fact Temperatur Design	lass tor	: 0.1597 sq.ft. : Cont.(S1) : F : 1.00 : 105 K : B	b
Heating constant	·				
Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
Performed by Checked by				Page	Revision
	1/04/2022			10 / 16	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2022			11 / 16	

Three Phase Induction Motor - Squirrel Cage

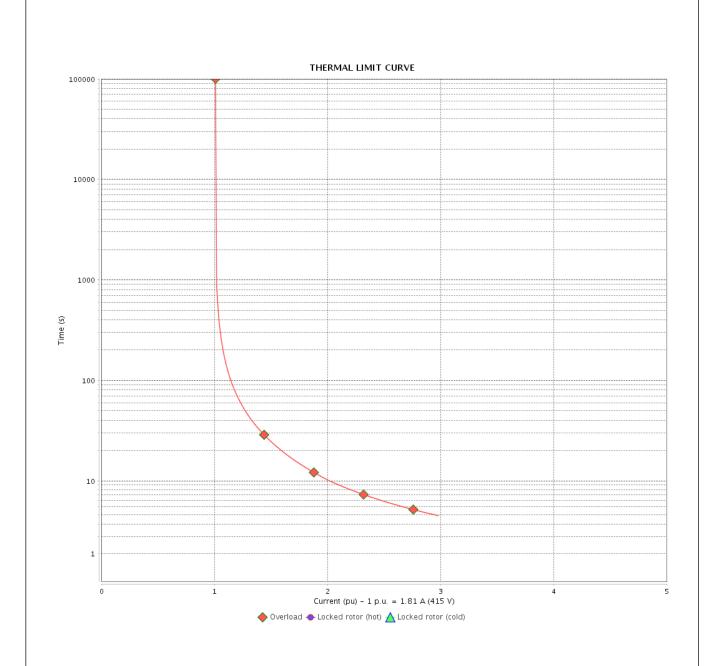


Customer	:	:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14802348 00112ET3E1	45TC-S
Performance		220/415 V 50 Hz 6P				
Rated current LRC	: 4	3.41/1.81 A 4.9	Duty cycle		: 0.1597 sq.ft.ll : Cont.(S1)	0
Rated torque Locked rotor torque		5.65 ft.lb 200 %	Insulation Service fa		: F : 1.00	
Breakdown torque	e ::	229 %	Temperat		: 105 K	
Rated speed		930 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
		<u> </u>			-	
Performed by					,	
Checked by	11/04/2022				Page 12 / 16	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2022			13 / 16	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

11/04/2022

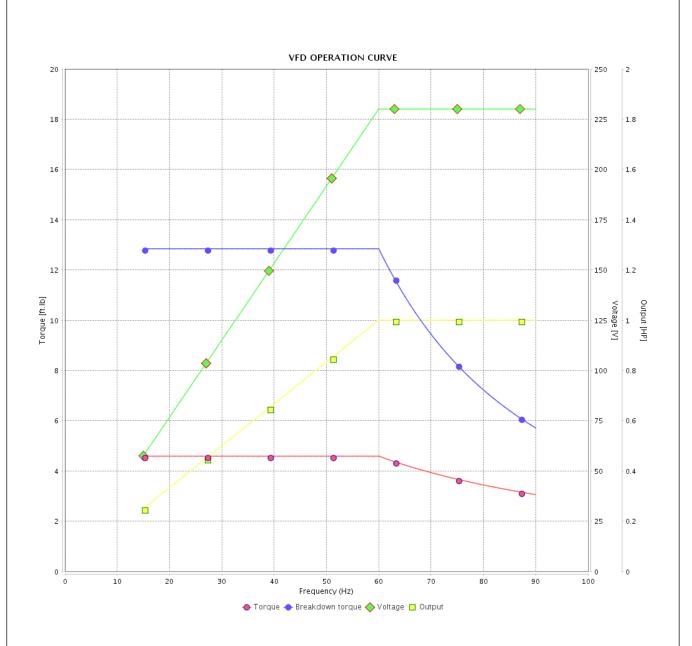
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00112ET3E145TC-S

14802348

14 / 16



Performance : 230/460 V 60 Hz 6P Rated current : 3.16/1.58 A Moment of inertia (J) : 0.1597 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.8 : 4.59 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1145 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

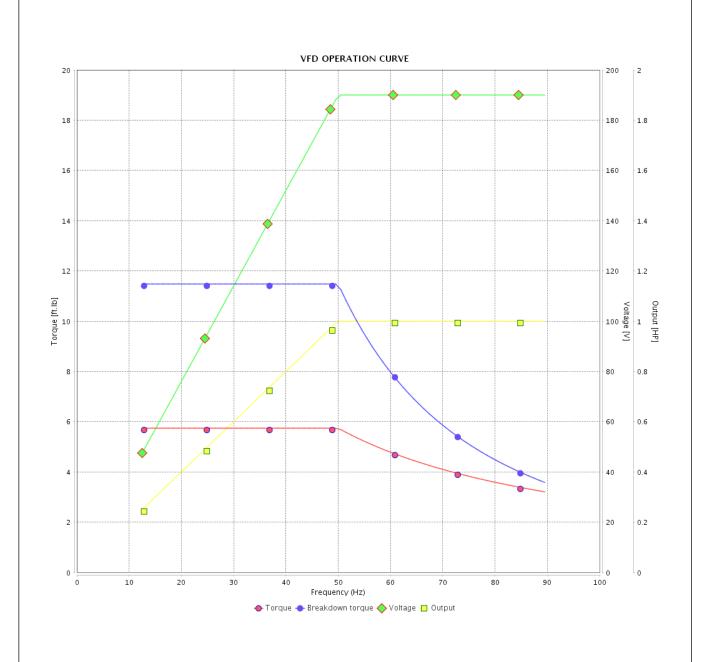


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14802348

Phase

Catalog #: 00112ET3E145TC-S



Performance	: 190/380 V 50 Hz 6P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.74/1.87 A : 4.4 : 5.74 ft.lb : 170 % : 200 % : 915 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1597 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						
Checked by				Page	Revision	

15 / 16

11/04/2022

Date

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

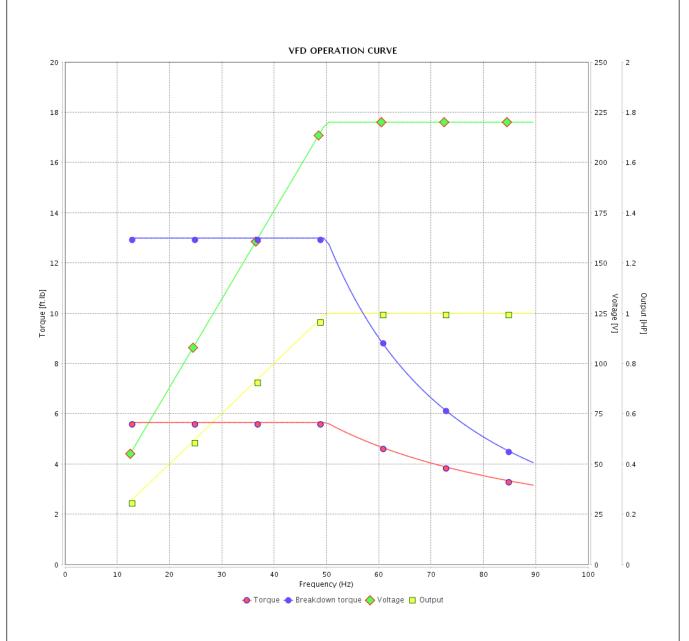
Date

11/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 14802348

Phase

Catalog #: 00112ET3E145TC-S

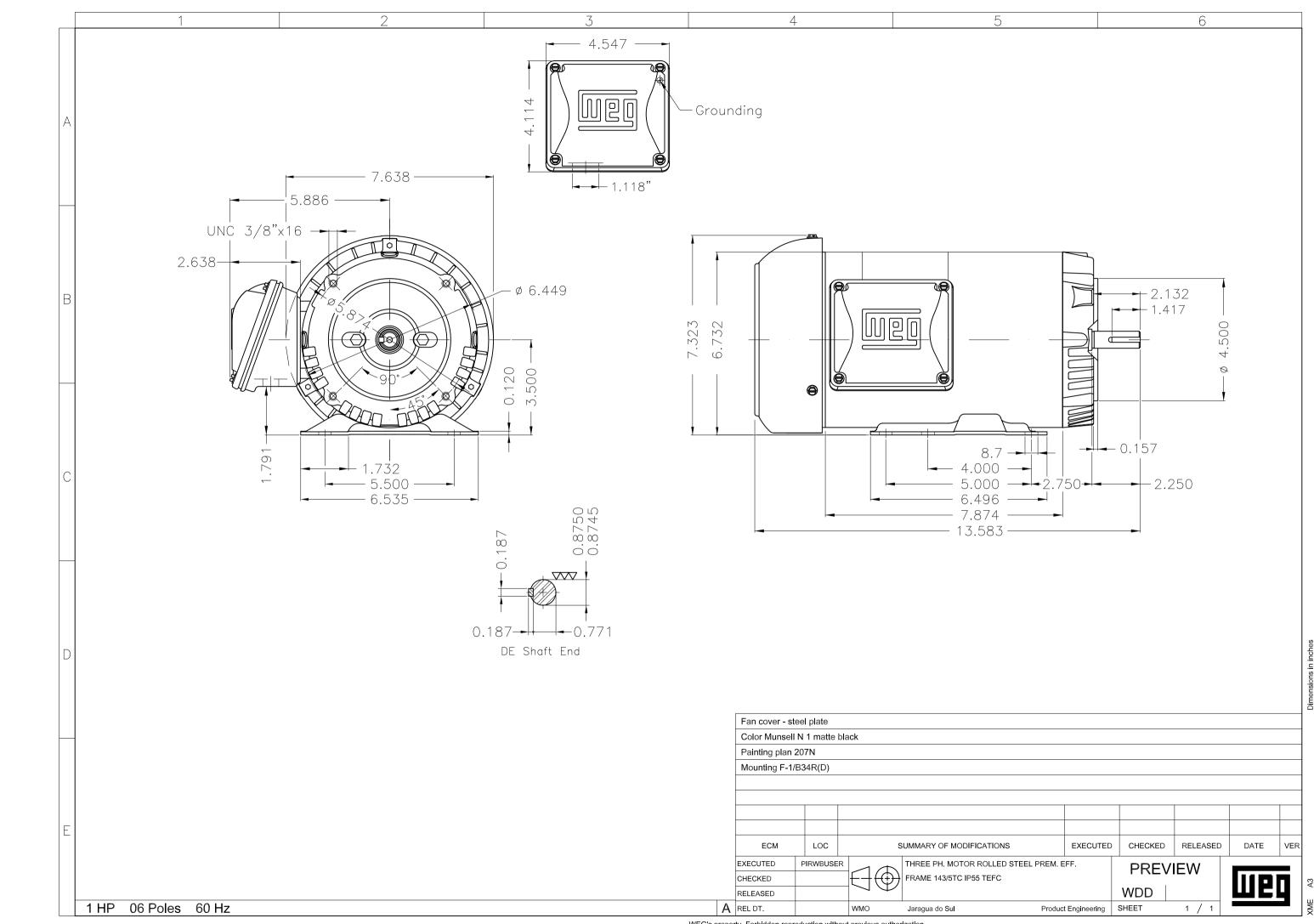


Performance	: 2	: 220/415 V 50 Hz 6P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 4 : 5 que : 2 ue : 2	.41/1.81 A .9 .65 ft.lb 00 % 29 % 30 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1597 sq.ft.I : Cont.(S1) : F : 1.00 : 105 K : B	b	
Rev.	Changes Summary		'	Performed	Checked	Date	
Performed by							

Page

16 / 16

Revision





Ž

FOR SAFE AREA

(**UL)**US LISTED 3PT9

& Energy Verifi For 60Hz: Class I, Zone 2, IIC Class I, DIv.2, Gr. A,B,C,D - T3 Div 2 Inverter Duty (SF1.00) CT 2:1/VT 1000:1

> MODEL 00112ET3E145TC-S N01.TE0IC0X0N 01APR2022

14802348

MADE IN MÉXICO

Hz 60 143/5TC

CONT

SCI

3.16/1.58

230/460 3.63/1. 1.15

> P55 CODE SH 1000 m.a.s.l F AT 80K

TEFC 0

48A ALTERNATE RATING: SABLE @ 208V 3.

ZPM 3FA 냃 쌆

1.0HP 3.74-3.36/1.87-1.78A

SF1.00 INC. W

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT. 4:1 CT 8203-ZZ 9 ODE

8205-ZZ

牌

2

MOBIL POLYREX EM

IEC 60034-1

SF1.00

190-220/380-415V

82.5%

NOM EFF NEMA 915RPM

50 Hz

EFF 77.3%

T2-WHT

13-ORG 1-810 F5-BLK

T9-RRK RFD I7-PNK

T8-RED F6-GRY r4-YEL



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

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

AVERTISSEMENT: Le moteur doit être mis à la terre 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 and national electrical codes to prevent serious electrical