DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14802523

Phase

Catalog #: 00218ET3E145TC-S

Frame : 143/5TC Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

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

Ambient temperature		: -20 C to +40 C	Starting method	: Direct On Line
Altitude		: 1000 m.a.s.l.	Approx. weight ³	: 43.8 lb
Protection degree		: IP55	Moment of inertia (J)	: 0.1296 sq.ft.lb
Design		: B		
Output [HP]		2	2	2
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		5.44/2.72	6.50/3.25	5.89/3.12
L. R. Amperes [A]		44.6/22.3	39.0/19.5	39.4/20.9
LRC [A]		8.2x(Code K)	6.0x(Code H)	6.7x(Code J)
No load current [A]	2.80/1.40	2.75/1.37	2.87/1.52
Rated speed [RPN	/ 1]	1745	1415	1425
Slip [%]		3.06	5.67	5.00
Rated torque [ft.lb]		6.02	7.42	7.37
Locked rotor torque [%]		270	210	240
Breakdown torque [%]		300	240	270
Service factor			1.00	1.00
Temperature rise		80 K	105 K	105 K
Locked rotor time		27s (cold) 15s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%	86.0	87.1	86.0
Efficiency (%)	50%	85.5	85.4	84.9
Lilloleticy (70)	75%	87.5	84.9	85.2
	100%	86.5	82.6	83.6
	25%	0.35	0.42	0.38
Power Factor	50%	0.60	0.68	0.64
1 OWCI I actor	75%	0.73	0.80	0.76
· —				

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

0.85

Bearing type : 6205 ZZ 6203 ZZ Max. traction : 151 lb Sealing : V'Ring Without Max. compression : 195 lb

0.80

Bearing Seal

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

Notes

USABLE @208V 6.02A SF 1.00 SFA 6.02A

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.

0.83

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



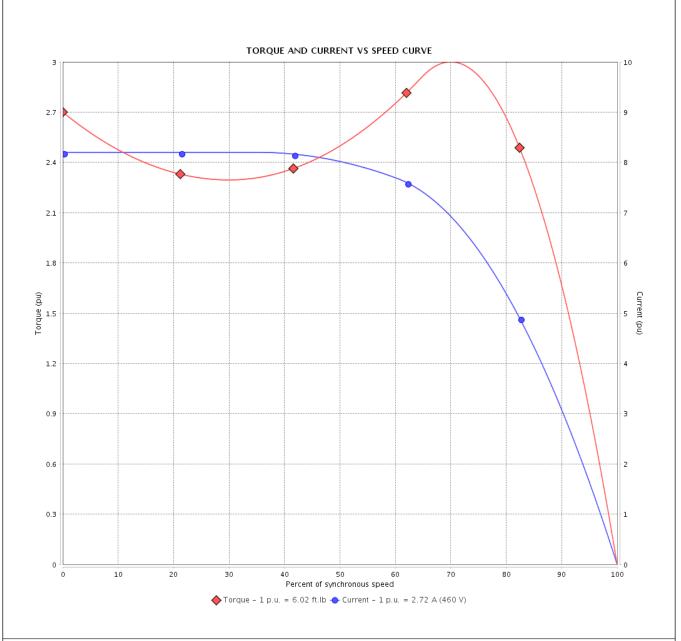
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14802523

Catalog #: 00218ET3E145TC-S



Performance	: 230/460 V 60 Hz 4P		
Rated current LRC	: 5.44/2.72 A : 8.2	Moment of inertia (J) Duty cycle	: 0.1296 sq.ft.lb : Cont.(S1)
Rated torque	: 6.02 ft.lb	Insulation class	: F
Locked rotor torque Breakdown torque	: 270 % : 300 %	Service factor Temperature rise	: : 80 K
Rated speed	: 1745 rpm	Design	: B
Lastrad mater times	. 07a (aald) 45a (bat)		

Locked rotor time : 27s (cold) 15s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

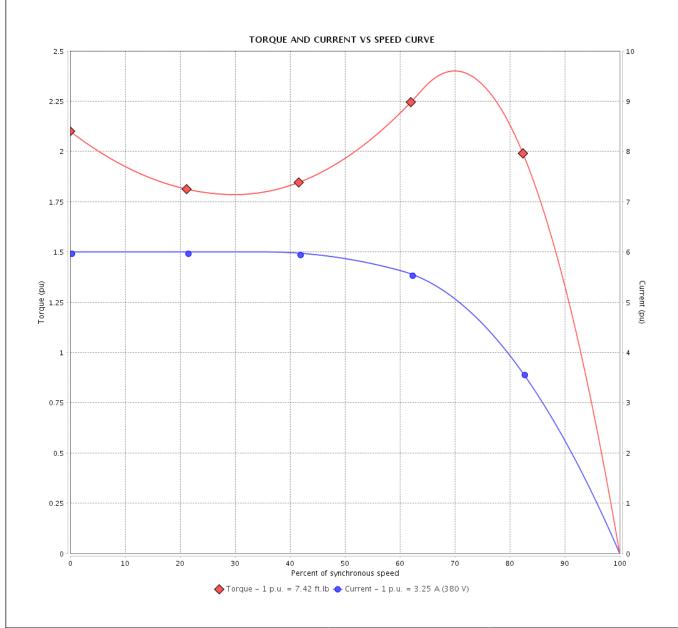


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14802523

Phase

Catalog #: 00218ET3E145TC-S



Rated current : 6.50/3.25 A	Mamont of inartia (1)	
LRC : 6.0 Rated torque : 7.42 ft.lb Locked rotor torque : 210 % Breakdown torque : 240 % Rated speed : 1415 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1296 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B

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

LOCKCO TOTOL UITI	. 0	3 (6014) 63 (1161)			
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



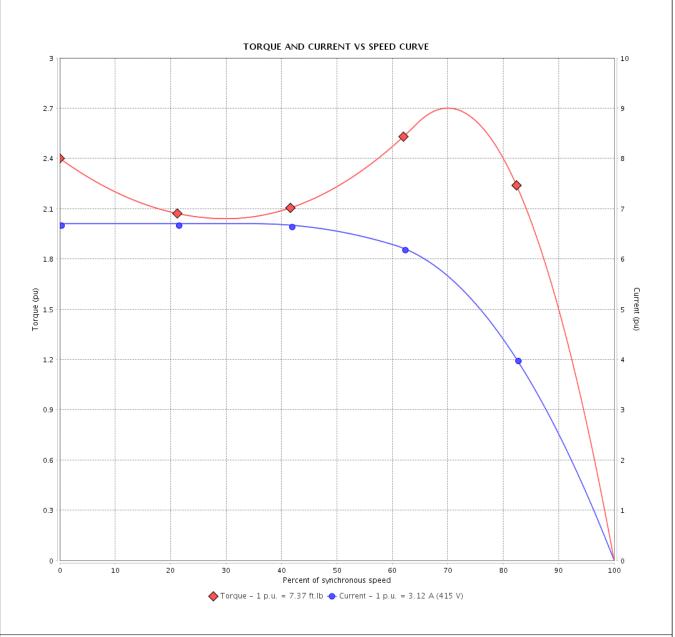
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14802523

Catalog #: 00218ET3E145TC-S



Performance : 220/415 V 50 Hz 4P Rated current : 5.89/3.12 A Moment of inertia (J) : 0.1296 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 7.37 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 240 % : 1.00 Breakdown torque : 270 % Temperature rise : 105 K Rated speed : 1425 rpm Design : B

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

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LOAD PERFORMANCE CURVE

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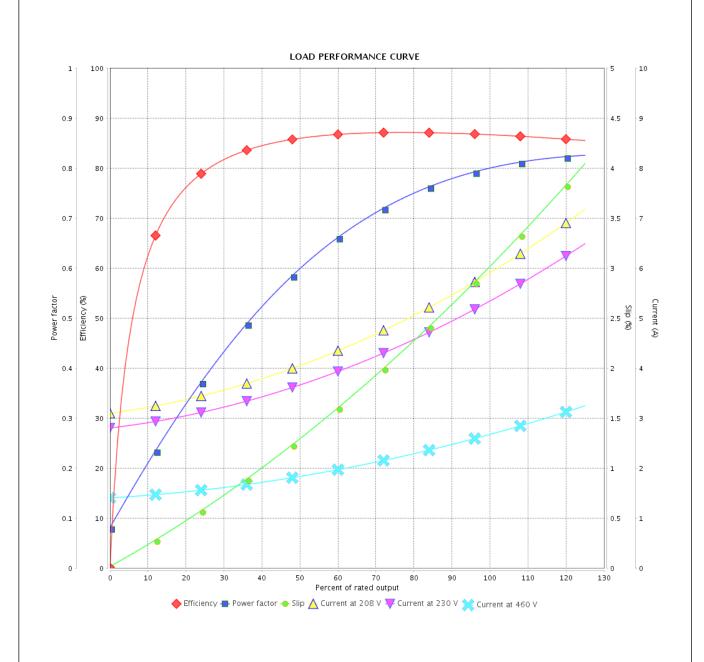


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14802523

Phase

Catalog #: 00218ET3E145TC-S



Performance	: 2	: 230/460 V 60 Hz 4P				
Rated current	: 5	5.44/2.72 A	Moment o	f inertia (J)	: 0.1296 sq.ft.	.lb
LRC	: 8	3.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 6	6.02 ft.lb	Insulation	class	: F	
Locked rotor torque :		270 %	Service fa	ctor	:	
Breakdown torque	: 3	800 %	Temperati	Temperature rise		
Rated speed	: 1	745 rpm	Design		: B	
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



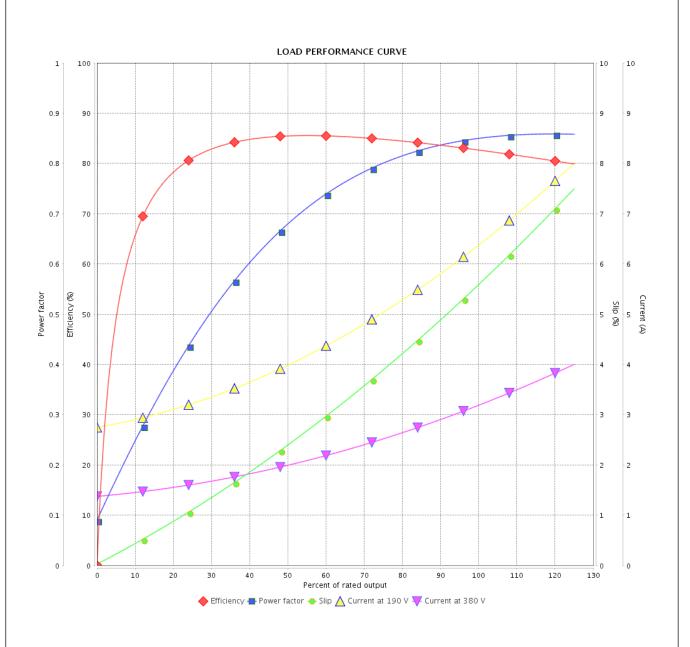
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14802523

Catalog #: 00218ET3E145TC-S



Performance : 190/380 V 50 Hz 4P Rated current : 6.50/3.25 A Moment of inertia (J) : 0.1296 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 7.42 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1415 rpm Design : B Rev. Performed Checked Date **Changes Summary**

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Three Phase Induction Motor - Squirrel Cage



Customer

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Date

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Product line : NEMA Premium Efficiency Three- Product code : 14802523

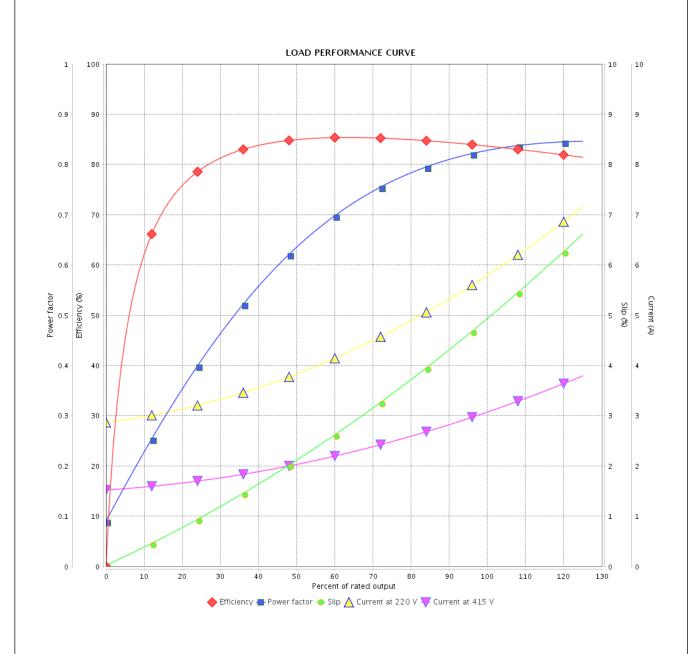
Phase

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Performance	ance : 220/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.89/3.12 A : 6.7 : 7.37 ft.lb : 240 % : 270 % : 1425 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1296 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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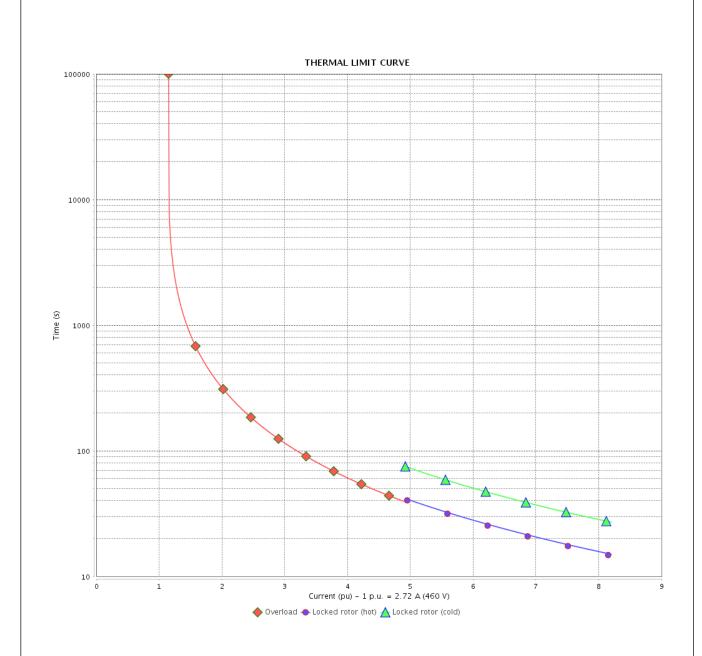


Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	14802523	
	Phase		Catalog # :	00218ET3E1	45TC S
			Catalog # .	00216E13E1	4010-0
Performance	: 230/460 V 60 Hz 4P	T			
Rated current LRC	: 5.44/2.72 A : 8.2	Moment of Duty cycle	of inertia (J)	: 0.1296 sq.ft.l : Cont.(S1)	b
Rated torque	: 6.02 ft.lb	Insulation	class	: F	
Locked rotor torque	: 270 % : 300 %	Service fa Temperati		: : 80 K	
Breakdown torque Rated speed	: 1745 rpm	Design	ure rise	: B	
Heating constant		-			
Cooling constant					
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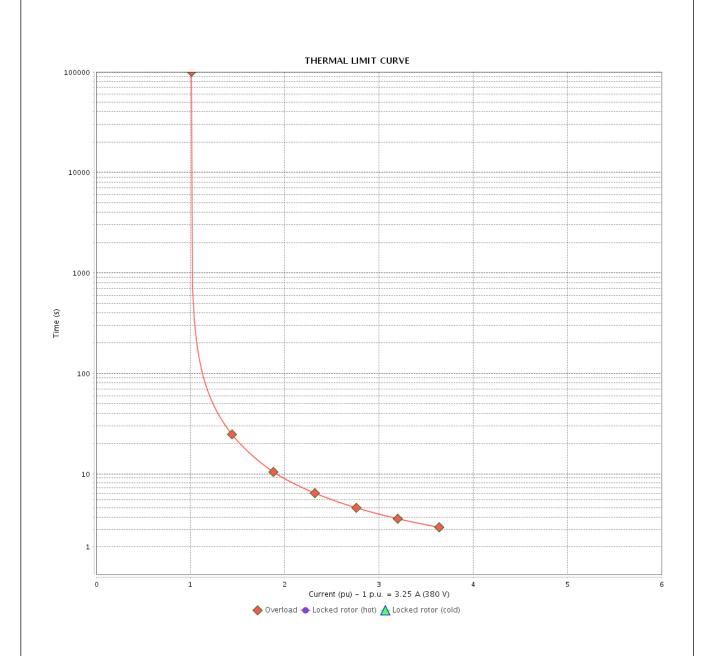


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14802523 00218ET3E1	45TC-S
Performance Rated current		: 190/380 V 50 Hz 4P : 6.50/3.25 A	Moment	of inertia (J)	: 0.1296 sq.ft.ll	h
LRC		: 6.0	Duty cycle	е	: Cont.(S1)	U
Rated torque Locked rotor tord		: 7.42 ft.lb : 210 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ie :	: 240 %	Temperat		: 105 K	
Rated speed		: 1415 rpm	Design		: B	
Heating constan						
Cooling constant	<u>t</u>	Changes Cumres		Douts was!	Charles -	Data
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Three Phase Induction Motor - Squirrel Cage



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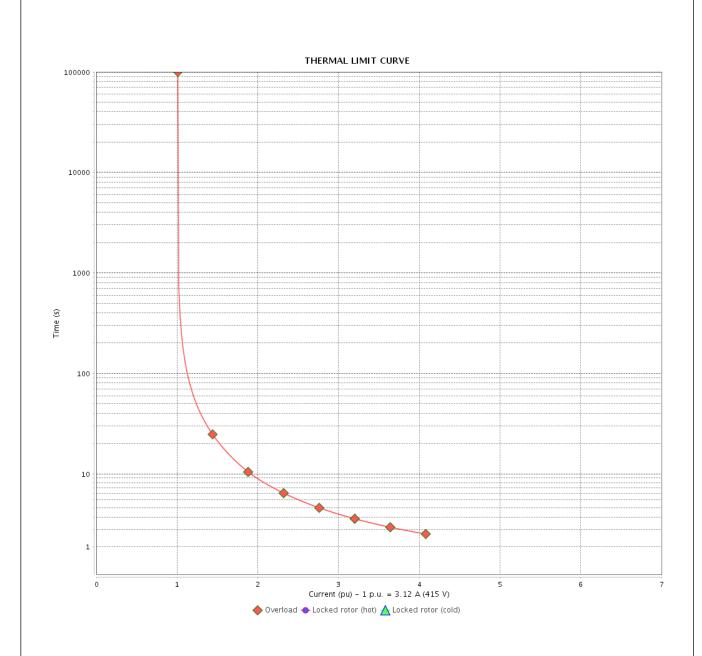


Customer	:				
Product line	: NEMA Premium Efficiency	Three- F	Product code :	14802523	
	Phase	(Catalog # :	00218ET3E ²	45TC-S
Performance	: 220/415 V 50 Hz 4P				
Rated current	: 5.89/3.12 A	Moment of	inertia (J)	: 0.1296 sq.ft.	b
LRC	: 6.7 : 7.37 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torque	: 240 %	Service fac	ctor	: 1.00	
Breakdown torque	: 270 %	Temperatu	re rise	: 105 K : B	
	: 1425 rpm	Design		. D	
Heating constant Cooling constant					
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



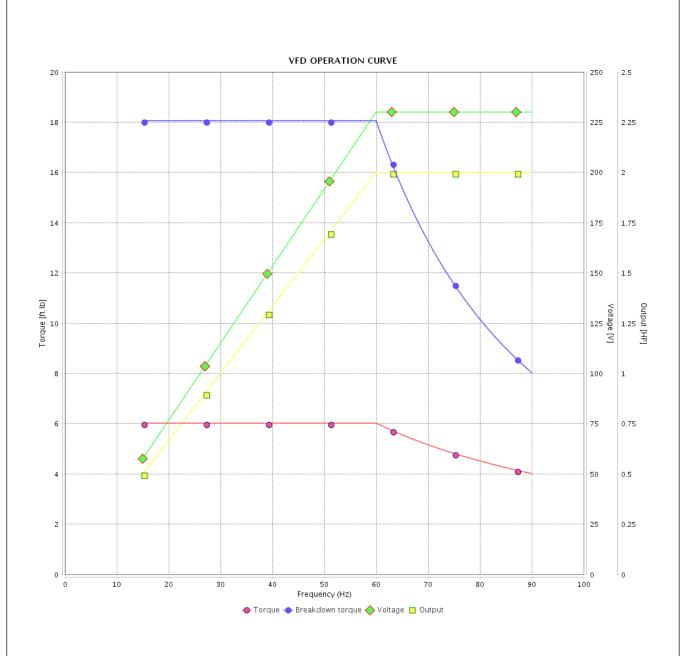
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14802523

Catalog #: 00218ET3E145TC-S



Performance	formance : 230/460 V 60 Hz 4P						
Rated current : 5		.44/2.72 A	Moment of inertia (J)		: 0.1296 sq.ft.lb		
LRC	: 8	.2	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 6	.02 ft.lb	Insulation	class	:F ´		
Locked rotor torqu	Locked rotor torque : 270 %		Service fa	actor	:		
Breakdown torque		00 %	Temperat	Temperature rise		: 80 K	
Rated speed		745 rpm Design		: B			
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



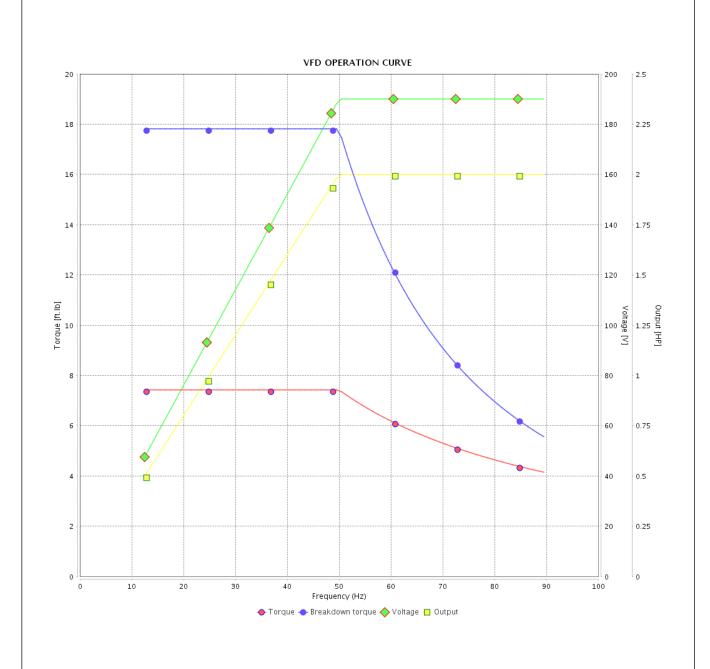
Customer

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 14802523

Catalog #: 00218ET3E145TC-S



Darfarmana	. 41	20/200 \/ FO LI= 4D	,				
Performance		90/380 V 50 Hz 4P					
Rated current	: 6	50/3.25 A	Moment of	Moment of inertia (J)		lb	
LRC : 6		0	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque :		42 ft.lb	Insulation class		: F		
Locked rotor torque :		10 %	Service fa	ctor	: 1.00		
Breakdown torque		40 %	Temperature rise		: 105 K		
Rated speed	: 14	1415 rpm Design			: B	: B	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



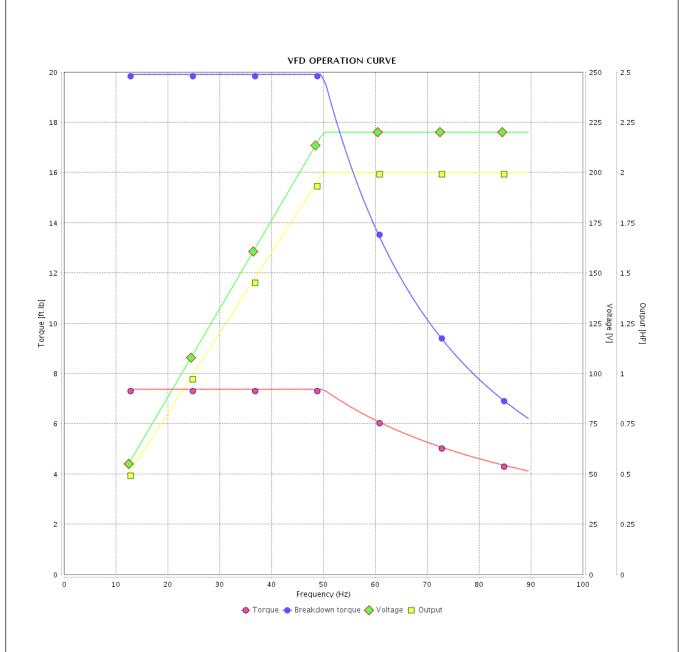
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 14802523

Catalog #: 00218ET3E145TC-S

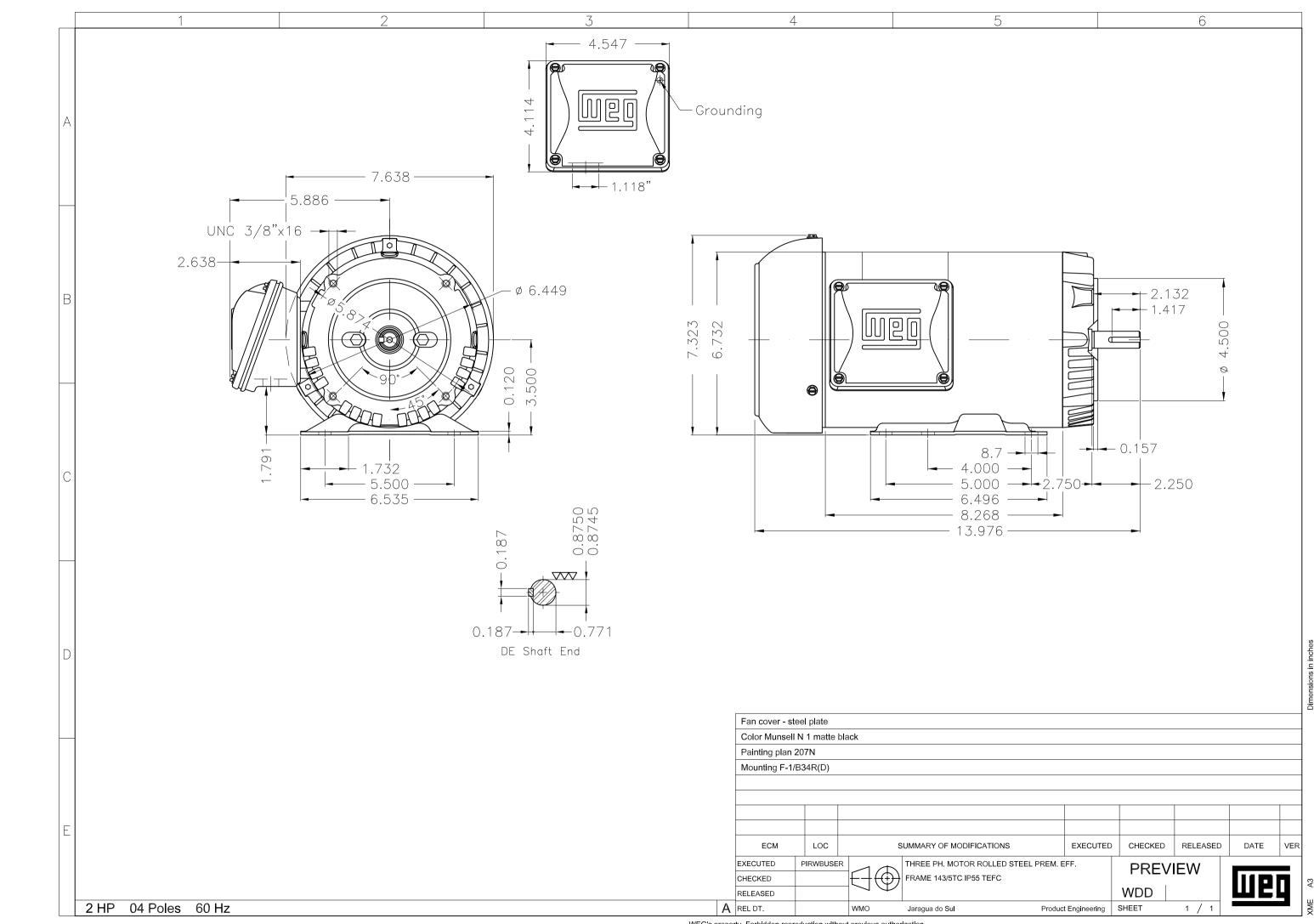


Performance	: 220/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.89/3.12 A : 6.7 : 7.37 ft.lb : 240 % : 270 % : 1425 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1296 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Date





3PT9

MODEL 00218ET3E145TC-S N01.TE0IC0X0N 14802523 MADE IN MÉXICO

SAFE AREA

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 **&** Energy Verifi UL)US LISTED

			IP55	DES B	CODE K	2A
43/5TC	ONT.	000 m.a.s.l	AT 80K	೦.0	EFC	@ 208V 6.02#

12 SZ NCL æ

5.44/2.72 5.26/3.13

> 3FA 냃 监

230/460 1.15

Hz 60

2

ë B

5MAR2022

ALTERNATE RATING:

SABLE SF1.00

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT. 4:1 CT NOM EFF 1415RPM Md. 50 Hz 8203-ZZ 2.0HP

3.50-5.79/3.25-3.07A

IEC 60034-1

E 1

EFF 82.6%

SF1.00

190-220/380-415V

86.5%

9

2

900

8205-ZZ

MOBIL POLYREX EM

F2-WHT

1-810

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