DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14788822

Catalog #: 00218ET3ER145TC-S

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

Mounting Insulation class : W-6

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

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

Altitude		: 1000 m.a.s.l.	Approx. weight ³	: 43.0 lb
Protection degre	е	: 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 [RPI	<i>/</i> 1]	1745	1415	1425
Slip [%]		3.06	5.67	5.00
Rated torque [ft.lb]]	6.02	7.42	7.37
Locked rotor torqu	e [%]	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
Efficiency (%)	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
Fower Facion	75%	0.73	0.80	0.76
	100%	0.80	0.85	0.83

Drive end Non drive end Foundation loads

Bearing type 6205 ZZ 6203 ZZ Max. traction : 152 lb Sealing V'Ring Without Max. compression : 195 lb

Bearing Seal

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 6.02A SF 1.00 SFA 6.02A

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.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



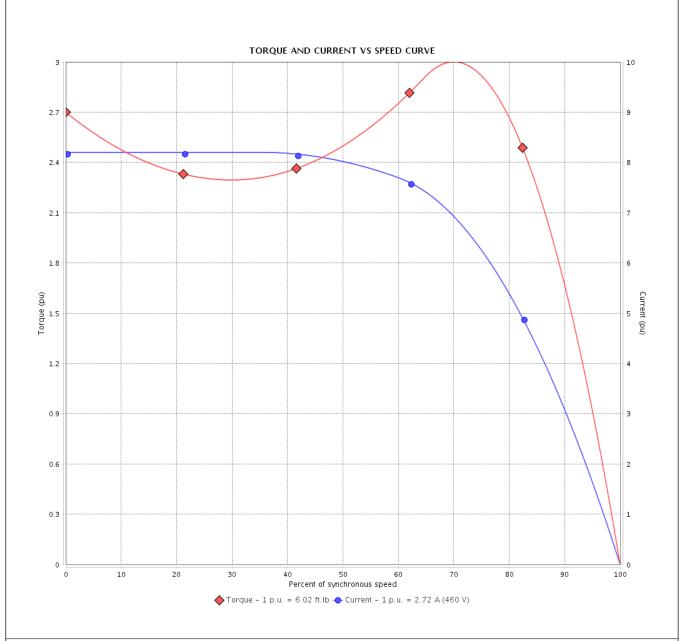
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14788822

Catalog #: 00218ET3ER145TC-S



Performance : 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 : Cont.(S1) : F Insulation class Rated torque : 6.02 ft.lb Service factor Locked rotor torque : 270 % : 80 K Breakdown torque : 300 % Temperature rise Rated speed : 1745 rpm Design : B

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

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TORQUE AND CURRENT VS SPEED CURVE

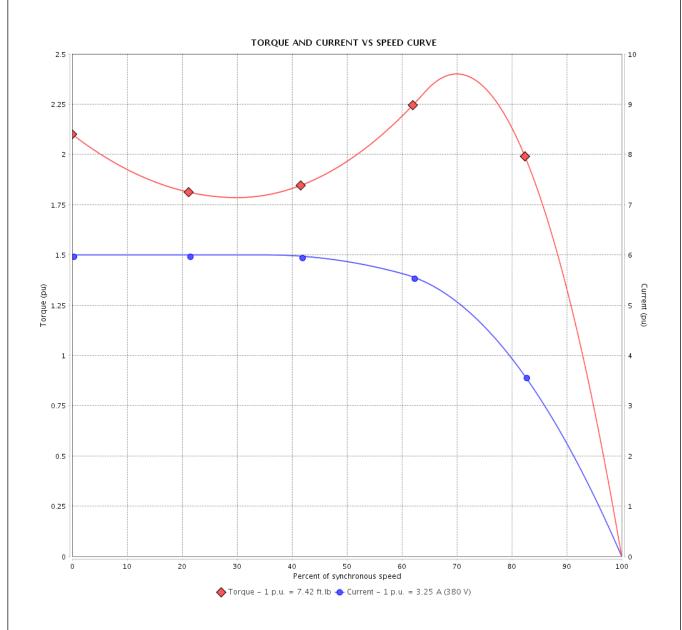
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14788822

00218ET3ER145TC-S Catalog #:



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)
Rated torque	: 7.42 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 1415 rpm	Design	: B
Locked rotor time	: Os (cold) Os (bot)	I.	_

LOCKEU TOLOT LITTI	. 0	s (cold) os (flot)			
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



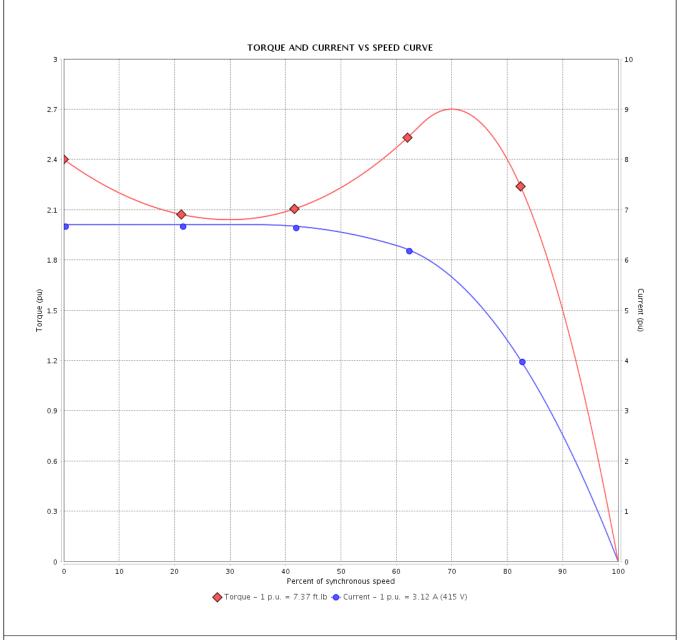
Customer :

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 14788822

Catalog #: 00218ET3ER145TC-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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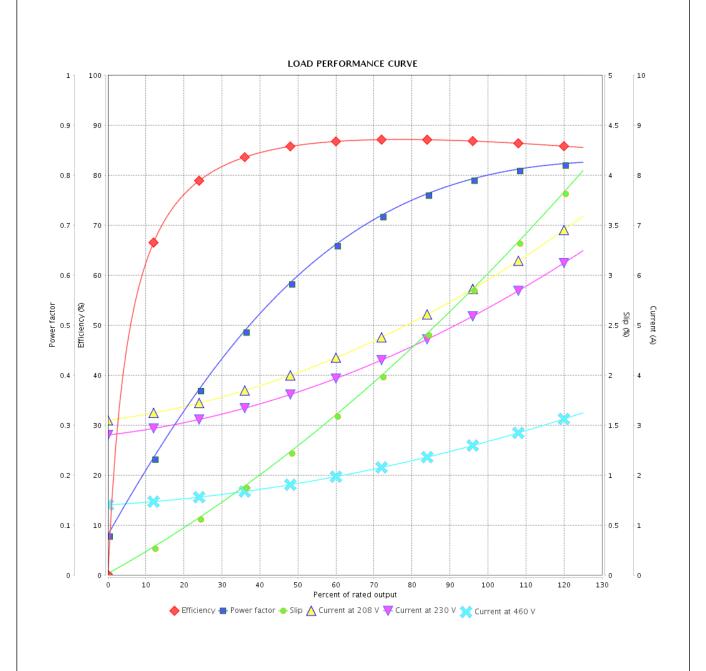


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14788822

Phase

Catalog #: 00218ET3ER145TC-S



Performance : 230/46		230/460 V 60 Hz 4P				
Rated current	:	5.44/2.72 A	Moment o	f inertia (J)	: 0.1296 sq.ft.lb	
LRC	:	8.2	Duty cycle	:	: Cont.(S1)	
Rated torque	:	6.02 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	270 %	Service fa	ctor	:	
Breakdown torque	:	300 %	Temperature rise		: 80 K	
Rated speed	:	: 1745 rpm		Design		
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

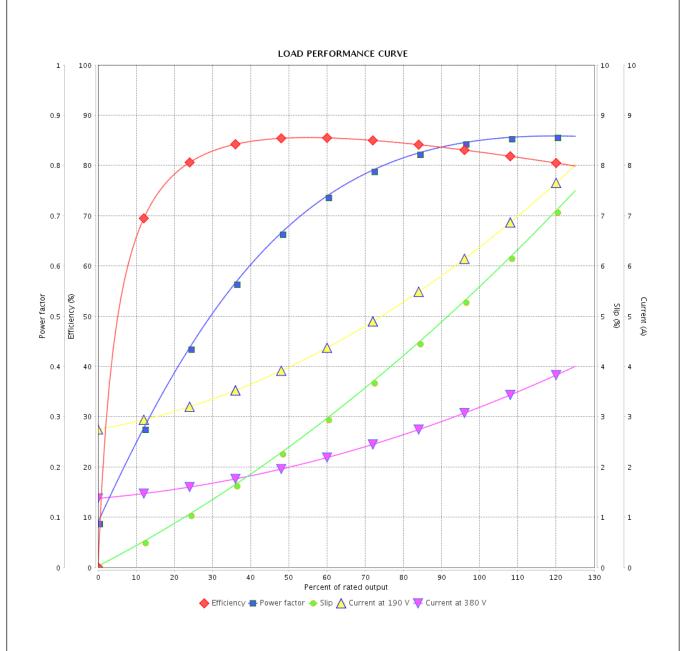
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Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 14788822

Catalog #: 00218ET3ER145TC-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** Performed by Checked by Revision Page

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

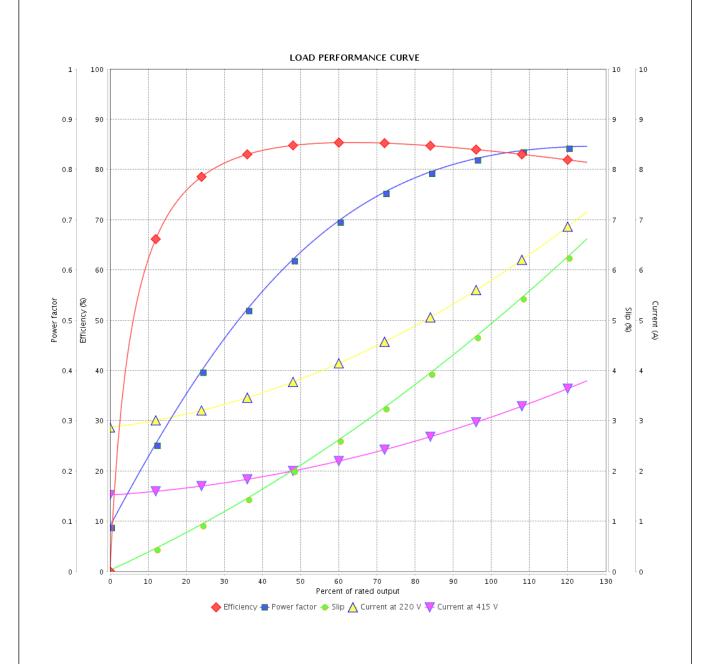


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14788822

Phase

Catalog #: 00218ET3ER145TC-S



Performance	: 2	20/415 V 50 Hz 4P				
Rated current	: 5	.89/3.12 A	Moment o	Moment of inertia (J)		lb
LRC	: 6	.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 7	.37 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	40 %	Service fa	ctor	: 1.00	
Breakdown torqu	e : 2	70 %	Temperati	Temperature rise		
Rated speed	: 1	425 rpm Design		: B		
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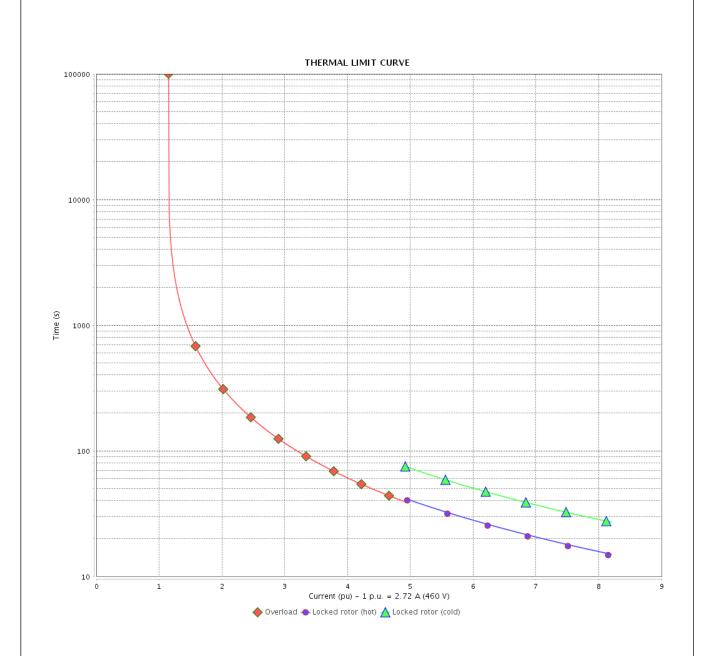


Customer	:				
Product line	: NEMA Premium Efficien	cy Three-	Product code :	14788822	
	Phase		Catalog # :	00218ET3EF	R145TC-S
Performance	: 230/460 V 60 Hz 4P				
Rated current	: 5.44/2.72 A	Moment o	of inertia (J)	: 0.1296 sq.ft.l	b
LRC Rated torque	: 8.2 : 6.02 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 270 %	Service fa	actor	:	
Breakdown torque Rated speed	: 300 % : 1745 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant	•				
Cooling constant					
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Three Phase Induction Motor - Squirrel Cage



Customer



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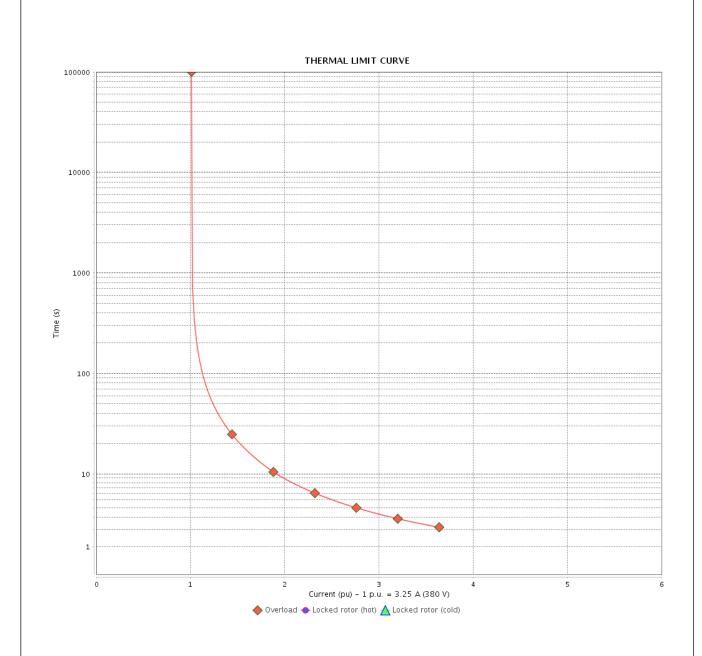


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog # :	14788822 00218ET3ER145TC-	S
Performance	: 190/380 V 50 Hz 4P			
Rated current	: 6.50/3.25 A	Moment of inertia (J)	: 0.1296 sq.ft.lb	
LRC Rated torque	: 6.0 : 7.42 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque Rated speed	: 240 % : 1415 rpm	Temperature rise Design	: 105 K : B	
Heating constant				
Cooling constant			,	
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

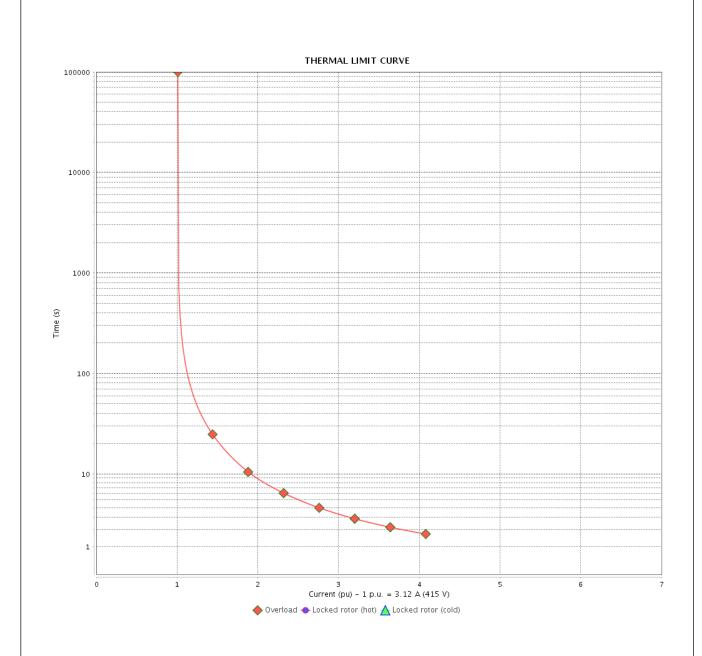


Customer	:				
Product line	: NEMA Premium Efficier	ncy Three-	Product code :	14788822	
	Phase		Catalog # :	00218ET3EF	R145TC-S
Performance	: 220/415 V 50 Hz 4P				
Rated current	: 5.89/3.12 A	Moment o	of inertia (J)	: 0.1296 sq.ft.l	b
LRC Rated torque	: 6.7 : 7.37 ft.lb	Duty cycle Insulation	ट ⊧class	: Cont.(S1) : F	
Locked rotor torque	: 240 %	Service fa	actor	: 1.00	
Breakdown torque Rated speed	: 270 % : 1425 rpm	Temperat Design	ure rise	: 105 K : B	
Heating constant	- r	2.2.3			
Cooling constant					
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Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



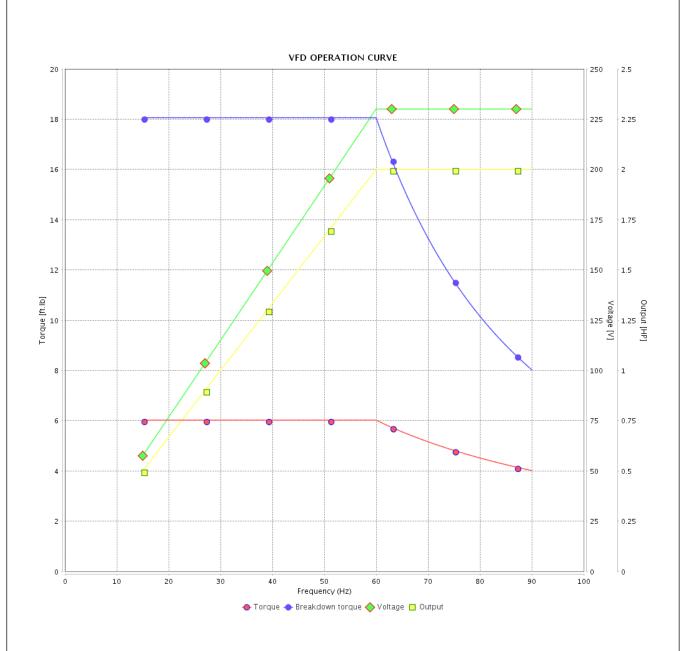
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 14788822

Catalog #: 00218ET3ER145TC-S



Performance	: 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		: Cont.(S1)	
Rated torque	: 6.02 ft.lb	Insulation class Service factor		:F	
Locked rotor torque	: 270 %				
Breakdown torque	: 300 %	Temperature rise	ure rise	: 80 K	
Rated speed	: 1745 rpm	Design		: B	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

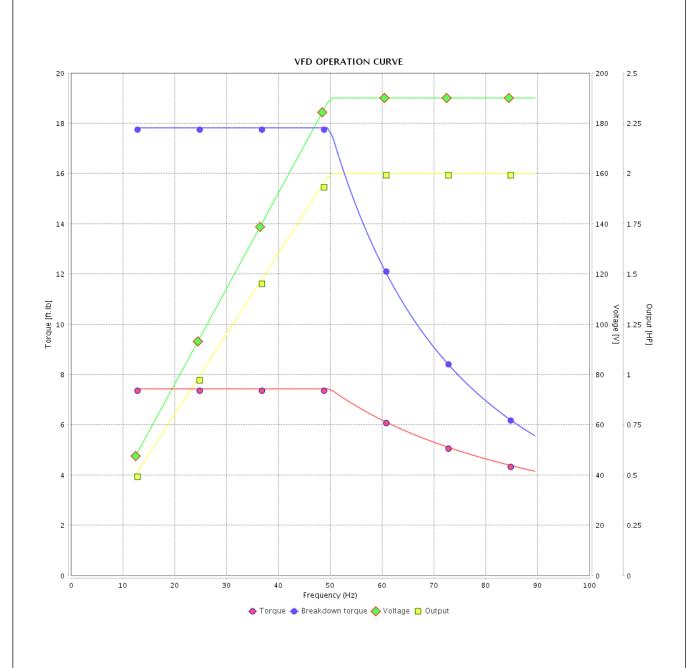


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14788822

Phase

Catalog #: 00218ET3ER145TC-S



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

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

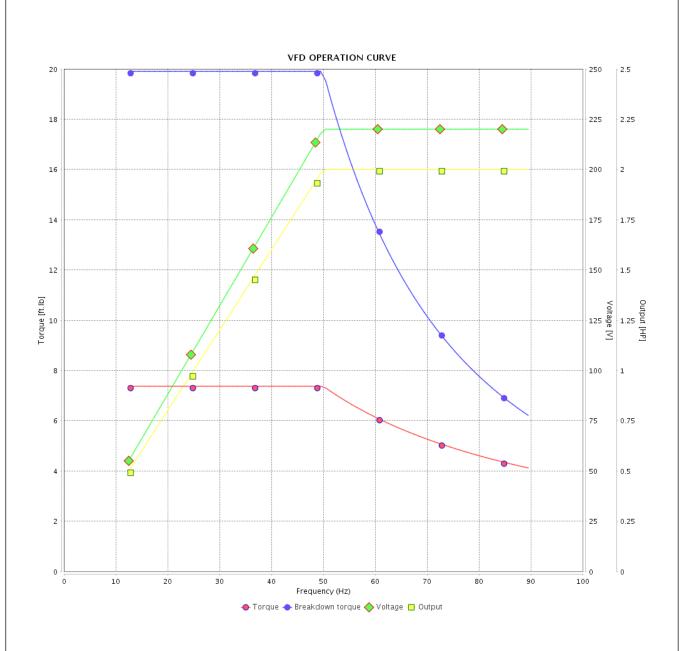
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Phase

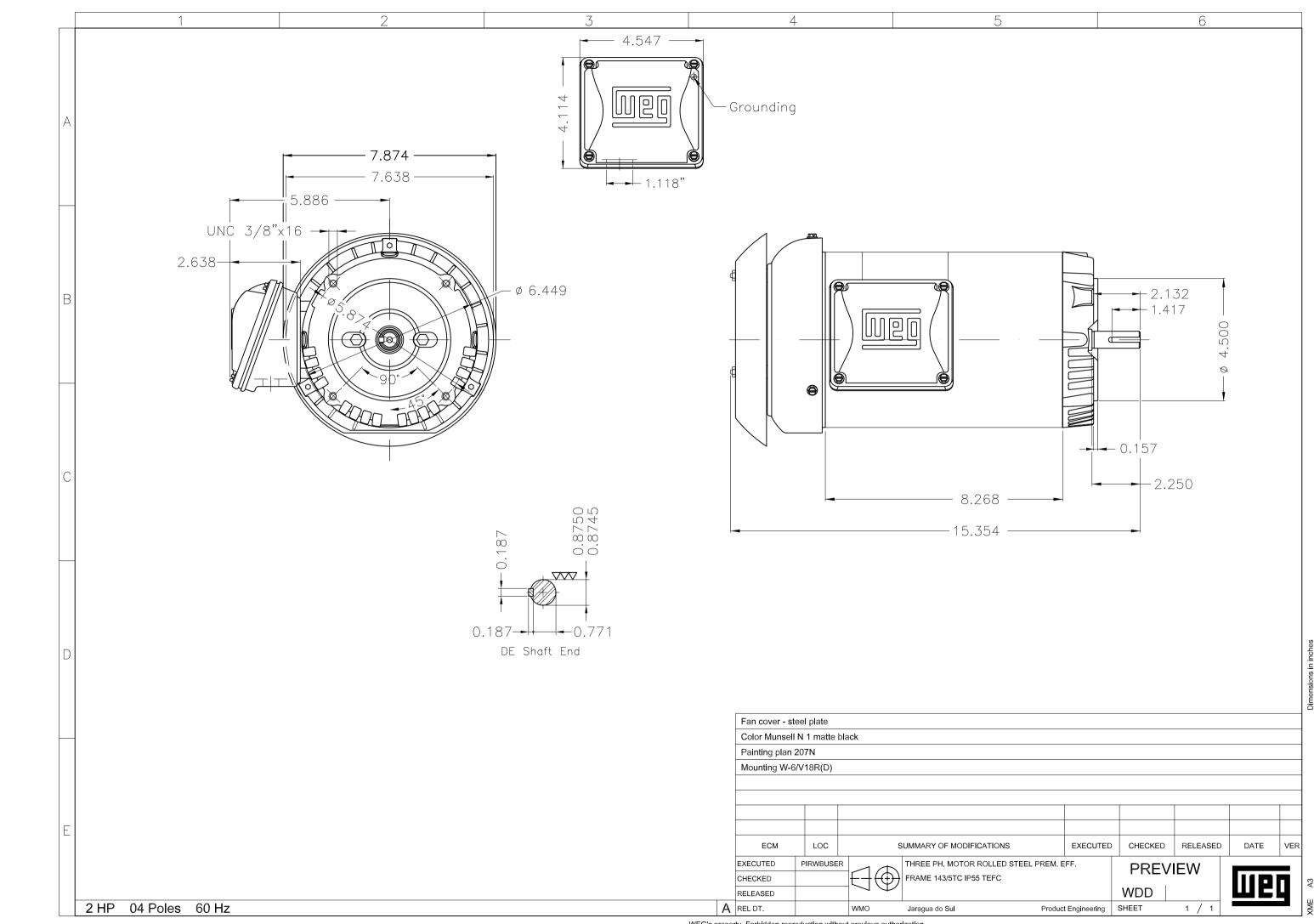
Product code: 14788822

Catalog #: 00218ET3ER145TC-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** Duty cycle : Cont.(S1) : 6.7 : 7.37 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 105 K Rated speed : 1425 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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Ž 14788822 MADE IN MÉXICO

MODEL 00218ET3ER145TC-S ë B N01.TE0IC0X0N 25MAR2022

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

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(**UL)**US LISTED

FOR SAFE AREA

3PT9

Energy Verifi

8 걒 143/5TC

1000 m.a.s.l

CONT

5.44/2.72 5.26/3.13

230/460 1.15

> P55 CODE SH SABLE @ 208V 6.02A

TEFC 20°C

F AT 80K

SCI

2.0HP

86.5%

NEMA

ZPM 3FA 냃 쌆

NOM EFF 1415RPM 50 Hz

3.50-5.79/3.25-3.07A

ALTERNATE RATING:

SF1.00 NCL W

IEC 60034-1

SF1.00

190-220/380-415V

ODE 6203-2Z

8205-ZZ

牌

9

2

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT. 4:1 CT MOBIL POLYREX EM **EFF 82.6%**

T2-WHT

T8-RED F6-GRY r4-YEL

I7-PNK

13-ORG 1-810 F5-BLK T9-RRK RFD

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

choc électrique grave. Déconnectez l'alimentation ayant 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 shocks. Disconnect power source before servicing unit.