DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14788756

Catalog #: 00156ET3ER143TC-S

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

Insulation class Mounting : W-6

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 · 34 7 lb

Altitude		: 1000 m.a.s.l.	Approx. weight ³	: 34.7 lb
Protection degre	е	: IP55	Moment of inertia (J)	: 0.1023 sq.ft.lb
Design		: B		•
Output [HP]		1.5	1.5	1.5
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		3.74/1.87	4.44/2.22	4.02/2.13
L. R. Amperes [A]		34.0/17.0	32.0/16.0	32.1/17.0
LRC [A]		9.1x(Code L)	7.2x(Code H)	8.0x(Code J)
No load current [A]	1.72/0.859	1.69/0.845	1.72/0.914
Rated speed [RPN	<i>/</i> 1]	3520	2895	2905
Slip [%]		2.22	3.50	3.17
Rated torque [ft.lb]]	2.24	2.72	2.71
Locked rotor torqu	e [%]	229	190	220
Breakdown torque	[%]	300	280	310
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		30s (cold) 17s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
	25%	78.4	83.1	82.2
Efficiency (%)	50%	80.0	82.6	82.2
Elliciency (70)	75%	82.5	83.8	84.0
	100%	84.0	82.9	83.6
	25%	0.44	0.49	0.46
Power Factor	50%	0.71	0.77	0.73
I OWEI FACIOI	75%	0.82	0.87	0.84
	100%	0.88	0.91	0.89

Non drive end Foundation loads Drive end

Bearing type 6205 ZZ 6203 ZZ Max. traction : 55 lb Without Sealing V'Ring Max. compression : 90 lb

Bearing Seal

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 4.13A SF 1.00 SFA 4.13A

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

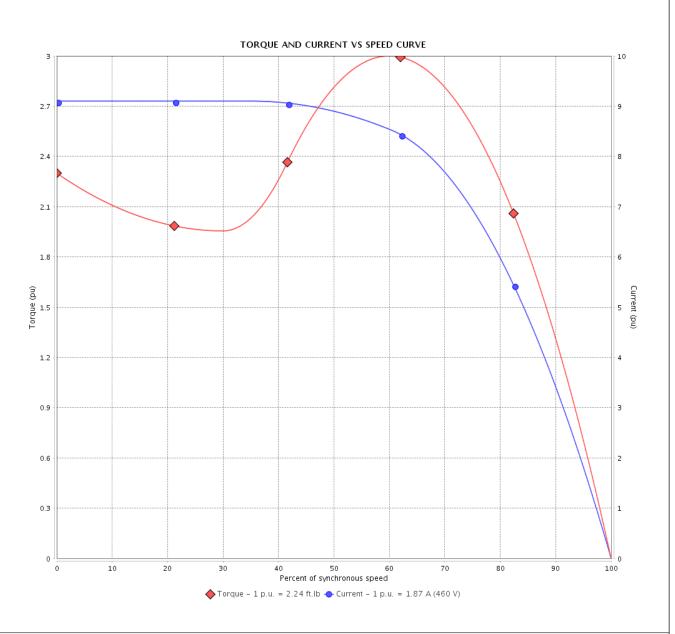


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14788756

Phase

Catalog #: 00156ET3ER143TC-S



Performance : 230/460 V 60 Hz 2P Rated current : 3.74/1.87 A Moment of inertia (J) : 0.1023 sq.ft.lb **LRC** : 9.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 2.24 ft.lb : F Locked rotor torque : 229 % Service factor Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3520 rpm Design : B Locked rotor time : 30s (cold) 17s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

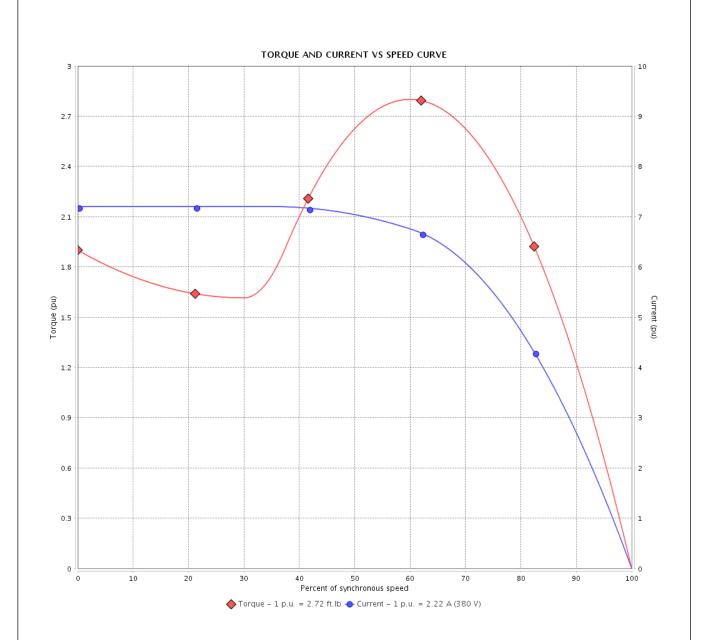
Three Phase Induction Motor - Squirrel Cage



00156ET3ER143TC-S

Customer Product line : NEMA Premium Efficiency Three-Product code: 14788756

Catalog #:



Performance : 190/380 V 50 Hz 2P Rated current : 4.44/2.22 A Moment of inertia (J) : 0.1023 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 2.72 ft.lb Insulation class : F Rated torque Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K : B Rated speed : 2895 rpm Design Locked rotor time

: 0s (cold) 0s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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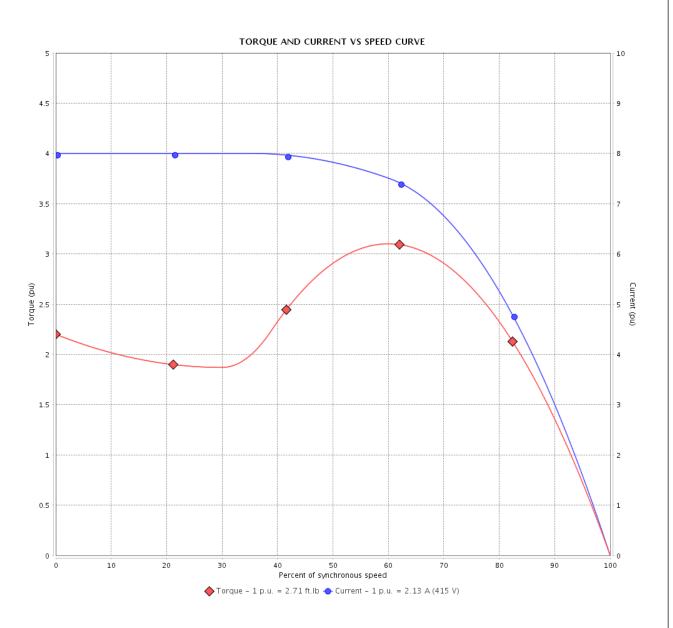


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Product line : NEMA Premium Efficiency Three- Product code : 14788756

Phase

Catalog #: 00156ET3ER143TC-S



Performance : 220/415 V 50 Hz 2P Rated current : 4.02/2.13 A Moment of inertia (J) : 0.1023 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.71 ft.lb Service factor Locked rotor torque : 220 % : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2905 rpm Design : B

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

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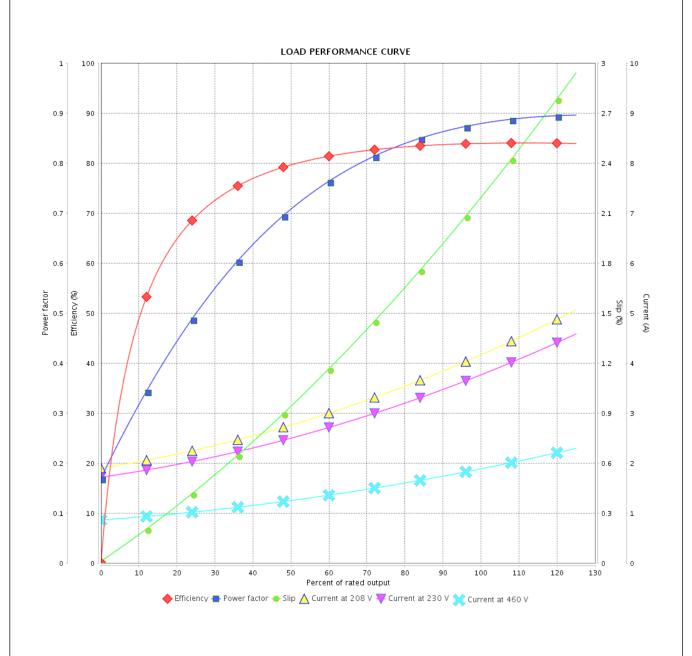


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14788756

Phase

Catalog #: 00156ET3ER143TC-S



Performance : 230/460 V 60 Hz 2P						
Rated current	: 3	: 3.74/1.87 A		f inertia (J)	: 0.1023 sq.ft.lb	
LRC	: 9	.1	Duty cycle	}	: Cont.(S1)	
Rated torque	: 2	.24 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	29 %	Service fa	ctor	:	
Breakdown torque : 300 %		00 %	Temperature rise		: 80 K	
Rated speed : 3520 rp		520 rpm	Design		: B	
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Customer :

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Date

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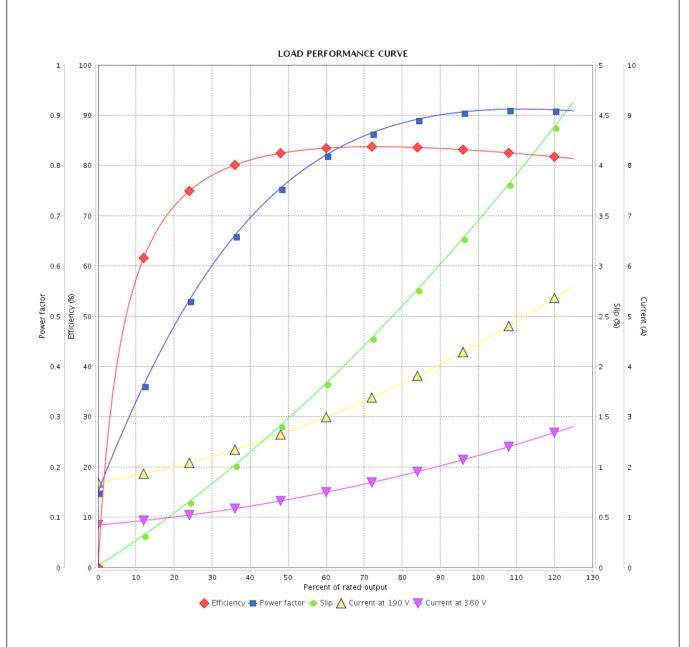
Phase

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Performance	: 1	90/380 V 50 Hz 2P				
Rated current : 4.44/2.22 A LRC : 7.2 Rated torque : 2.72 ft.lb Locked rotor torque : 190 % Breakdown torque : 280 % Rated speed : 2895 rpm		.2 .72 ft.lb 90 % 80 %	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1023 sq.ft.l : Cont.(S1) : F : 1.15 : 80 K : B	b
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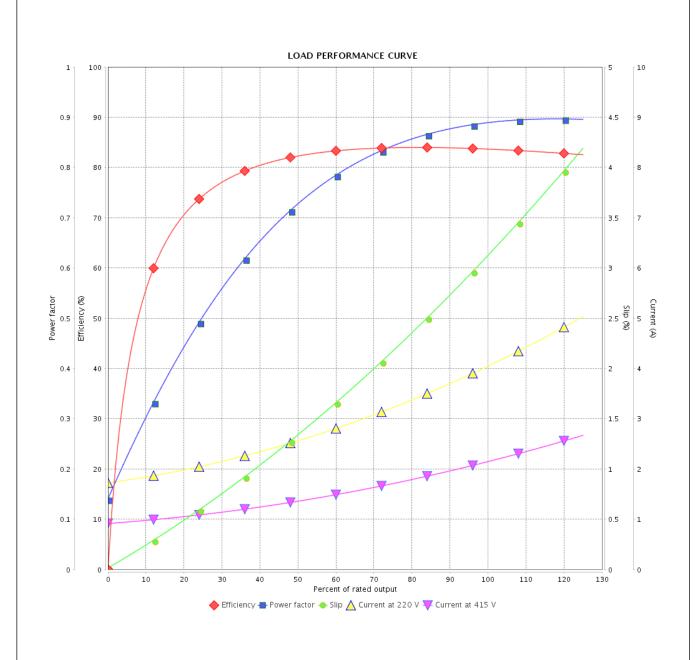
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Performance : 220/415 V 50 Hz 2P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.02/2.13 A : 8.0 : 2.71 ft.lb : 220 % : 310 % : 2905 rpm	Duty cycle : Consultation class : For Service factor : 1 Temperature rise : 8		: 0.1023 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
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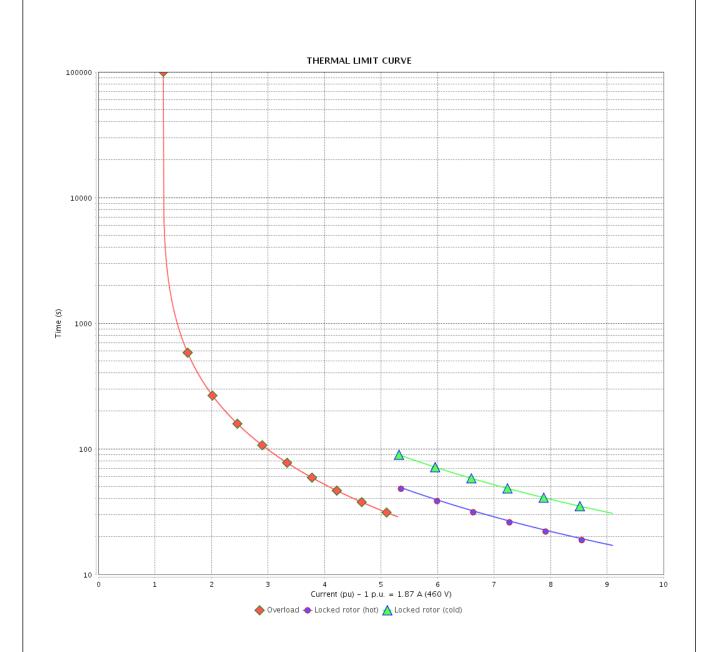


Customer		:				
Product line		: NEMA Premium Efficiency	Three	Product code :	14788756	
i roduct line		Phase				
				Catalog # :	00156ET3EF	R143TC-S
Performance	:	230/460 V 60 Hz 2P	T			
Rated current		3.74/1.87 A	Moment of	of inertia (J)	: 0.1023 sq.ft.l	b
LRC Rated torque		9.1 2.24 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torq	jue :	229 %	Service fa	actor	:	
Breakdown torqu		300 %	Temperat	ure rise	: 80 K : B	
Rated speed		3520 rpm	Design		. D	
Heating constant						
Cooling constant		Observe O		D(Ob. 1	
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Three Phase Induction Motor - Squirrel Cage



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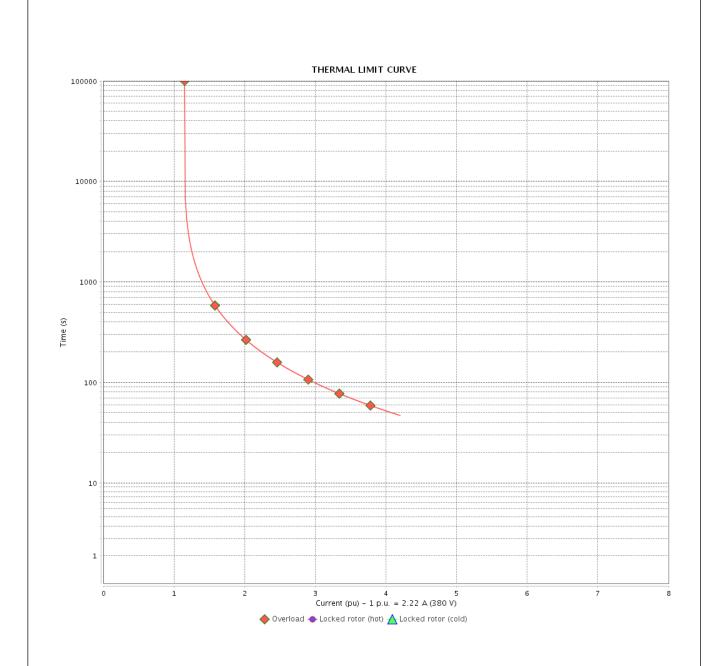


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	14788756 00156ET3EF	R143TC-S
Performance	: 190/380 V 50 Hz 2P				
Rated current	: 4.44/2.22 A	Moment of	inertia (.I)	: 0.1023 sq.ft.l	h
LRC	: 7.2	Duty cycle		: Cont.(S1)	~
Rated torque	: 2.72 ft.lb : 190 %	Insulation Service fac		: F : 1.15	
Locked rotor torque Breakdown torque	: 190 % : 280 %	Temperatu		: 1.15 : 80 K	
Rated speed	: 2895 rpm	Design		: B	
Heating constant					
Cooling constant					
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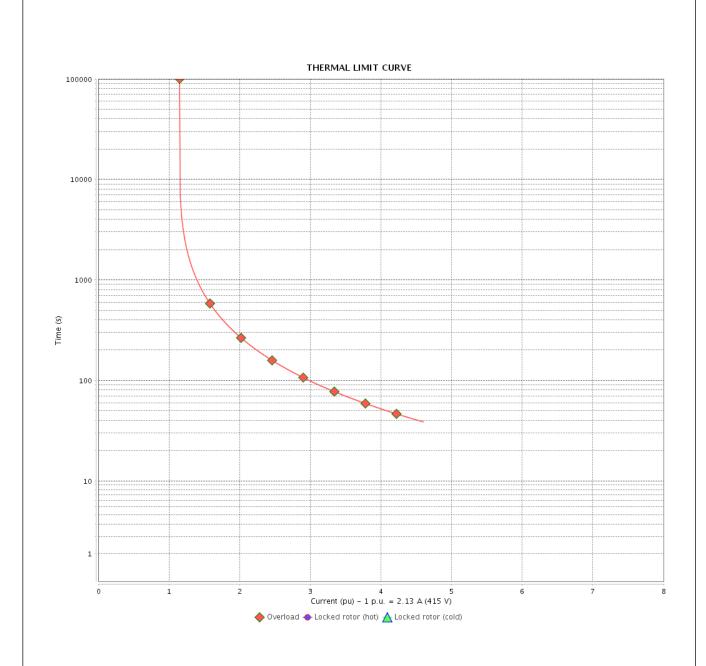


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Product line		: NEMA Premium Efficiency	Three-	Product code :	14788756	
1 Toddot IIIIc		Phase	111100			
				Catalog # :	00156ET3ER	R143TC-S
Performance		: 220/415 V 50 Hz 2P				
Rated current		: 4.02/2.13 A	Moment of	of inertia (J)	: 0.1023 sq.ft.ll	b
LRC		: 8.0	Duty cycl	e	: Cont.(S1)	
Rated torque Locked rotor tord		: 2.71 ft.lb : 220 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ue	: 310 %	Temperat		: 80 K	
Rated speed		: 2905 rpm	Design		: B	
Heating constan						
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Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



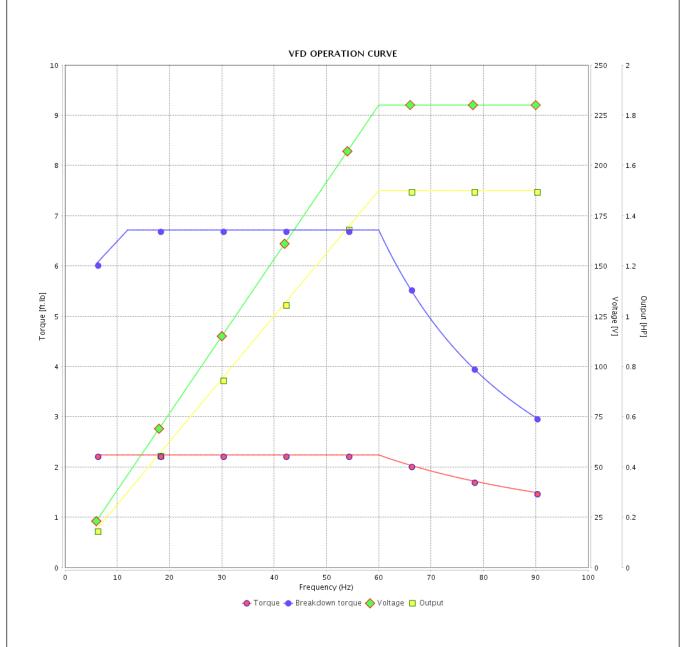
Customer :

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 14788756

Catalog #: 00156ET3ER143TC-S



Performance	: 230/460 V 60 Hz 2P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.74/1.87 A : 9.1 : 2.24 ft.lb : 229 % : 300 % : 3520 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1023 sq.ft.lb : Cont.(S1) : F : : 80 K : B			
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

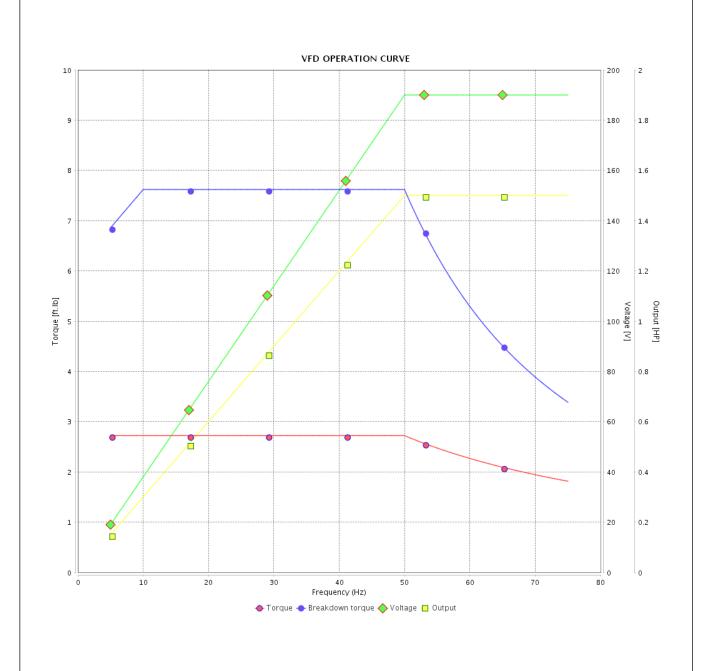


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14788756

Phase

Catalog #: 00156ET3ER143TC-S



Performance	:	190/380 V 50 Hz 2P					
Rated current		4.44/2.22 A	Moment of	Moment of inertia (J)		: 0.1023 sq.ft.lb	
LRC		7.2	Duty cycle		: Cont.(S1)		
Rated torque		2.72 ft.lb	Insulation class		: F		
Locked rotor torque		190 %	Service fa	Service factor		: 1.15	
Breakdown torqu	ue :	280 %	Temperati	Temperature rise			
Rated speed	:	2895 rpm	95 rpm Design		: B		
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



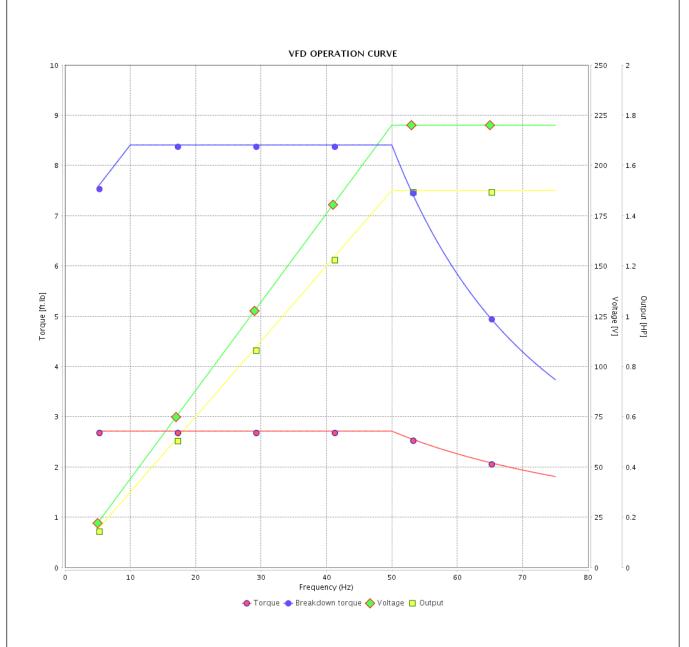
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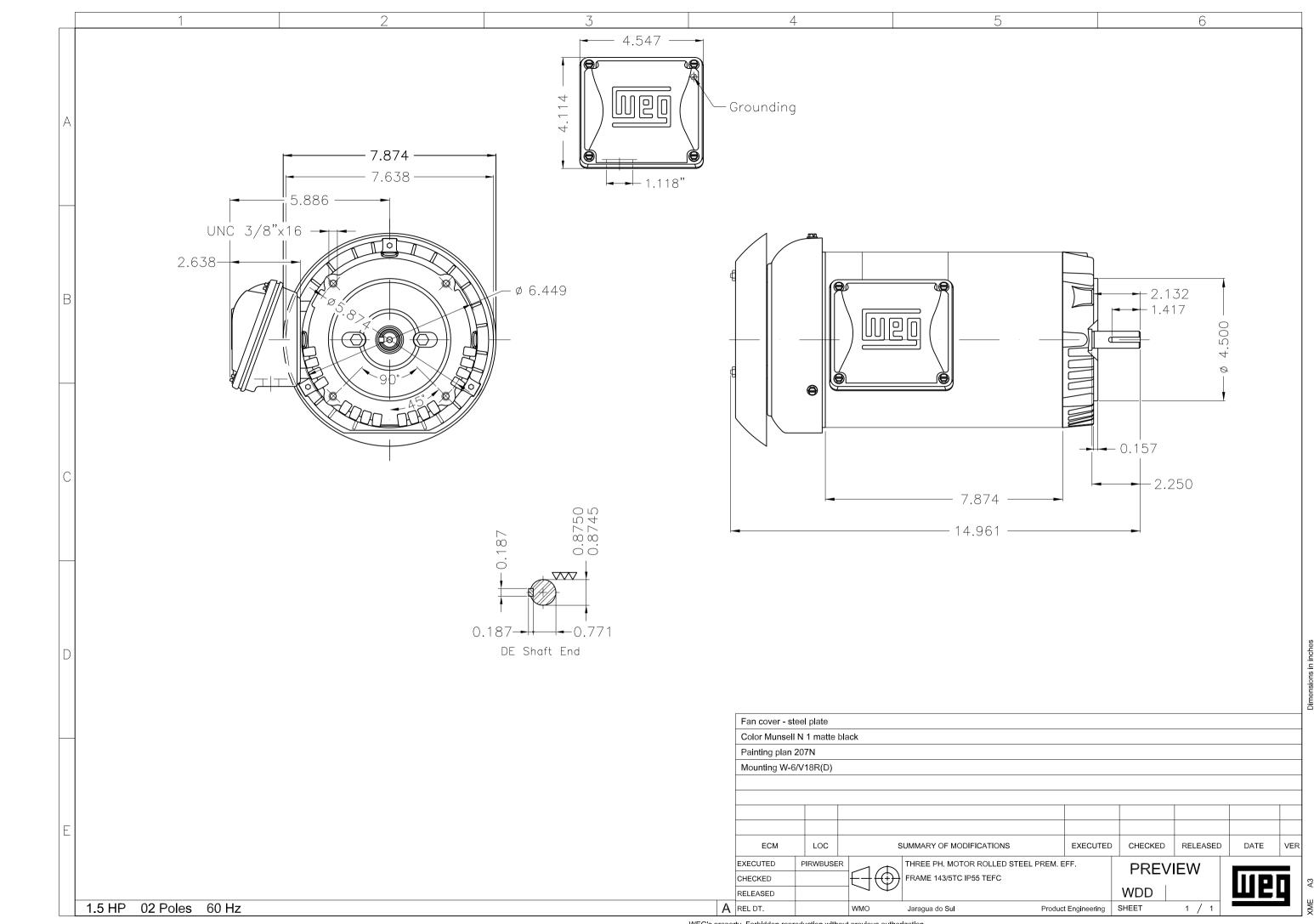


Performance	: 220/415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.02/2.13 A : 8.0 : 2.71 ft.lb : 220 % : 310 % : 2905 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1023 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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FOR SAFE AREA

3PT9

Energy Verifi

N01.TE0IC0X0N 14788756 MADE IN MÉXICO

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 00156ET3ER143TC-S ë B 24MAR2022

8 걒 143/5TC CONT

1000 m.a.s.l F AT 80K

3.74/1.87 1.30/2.15

230/460 1.15

> P55 CODE SHO

> > SCI

TEFC 20°C

1.5HP SABLE @ 208V 4.14A

ZPM 3FA 냃 쌆

84.0%

NOM EFF 2895RPM 50 Hz

4.44-3.90/2.22-2.07A

ALTERNATE RATING:

SF1.00 INC. W

190-220/380-415V

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT MOBIL POLYREX EM **EFF 82.9%**

IEC 60034-1

SF1.15

6203-ZZ

ODE

8205-ZZ

9

2

13-ORG 1-810 I7-PNK F5-BLK



conformément aux codes électriques locaux et nationaux ann 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