DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14802734

Catalog #: 00236ET3E145T-S

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

Insulation class Mounting : F-1

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. weight³ : 40.9 lb

Protection degree		: IP55	Moment of inertia (J)	: 0.1279 sq.ft.lb
Design		: B		
Output [HP]		2	2	2
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		4.94/2.47	5.94/2.97	5.39/2.86
L. R. Amperes [A]		48.9/24.5	44.0/22.0	44.2/23.5
LRC [A]		9.9x(Code L)	7.4x(Code J)	8.2x(Code K)
No load current [A]	2.13/1.06	2.10/1.05	2.14/1.13
Rated speed [RPN	/ []	3520	2875	2890
Slip [%]		2.22	4.17	3.67
Rated torque [ft.lb]		2.98	3.65	3.63
Locked rotor torqu	e [%]	250	229	260
Breakdown torque	[%]	300	280	310
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		23s (cold) 13s (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%	82.1	84.8	84.0
Efficiency (9/)	50%	82.5	84.0	83.7
Efficiency (%)	75%	85.5	84.6	84.9
	100%	85.5	83.3	84.1
	25%	0.45	0.51	0.48
Power Factor	50%	0.73	0.79	0.76
FOWEI FACIOI	75%	0.83	0.88	0.86
	100%	0.89	0.92	0.90

Non drive end Foundation loads Drive end

Bearing type 6205 ZZ 6203 ZZ Max. traction : 77 lb Sealing V'Ring Without Max. compression : 118 lb

Bearing Seal

Lubrication interval Lubricant amount

Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 5.46A SF 1.00 SFA 5.46A

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



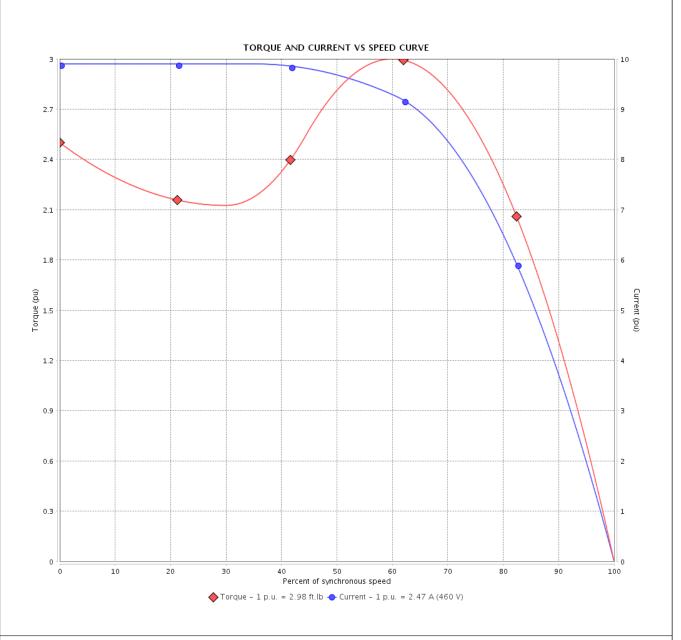
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14802734

Catalog #: 00236ET3E145T-S



Performance : 230/460 V 60 Hz 2P Rated current : 4.94/2.47 A Moment of inertia (J) : 0.1279 sq.ft.lb **LRC** : 9.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.98 ft.lb Service factor Locked rotor torque : 250 % : 80 K Breakdown torque : 300 % Temperature rise Rated speed : 3520 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

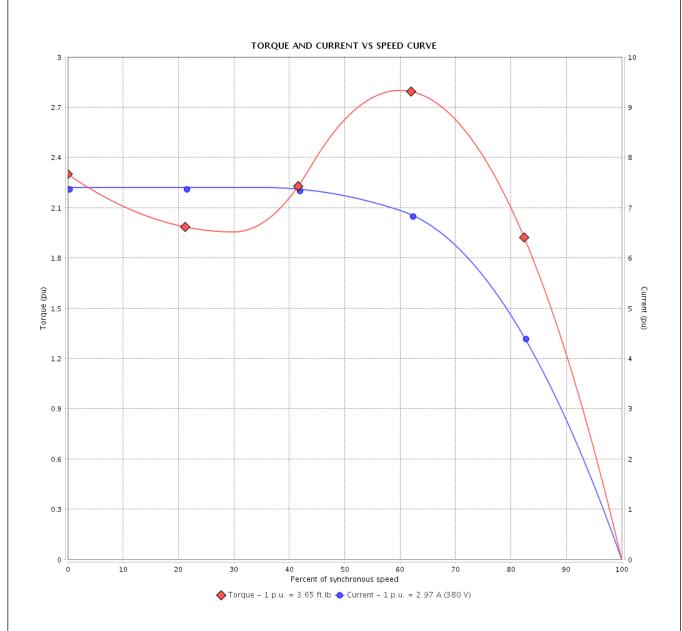
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14802734 Catalog #: 00236ET3E145T-S



Performance : 190/380 V 50 Hz 2P Rated current : 5.94/2.97 A Moment of inertia (J) : 0.1279 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 3.65 ft.lb Insulation class : F Rated torque Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K : B Rated speed : 2875 rpm Design Locked rotor time

: 0s (cold) 0s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



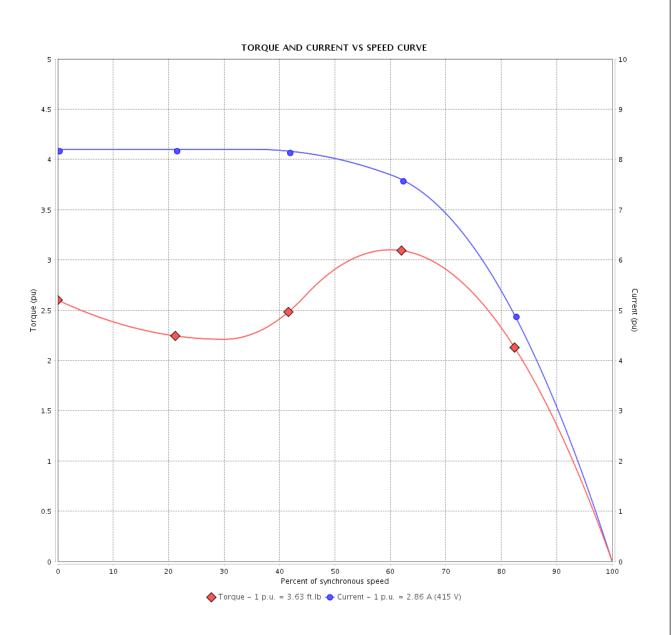
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14802734

Catalog #: 00236ET3E145T-S



Performance : 220/415 V 50 Hz 2P Rated current : 5.39/2.86 A Moment of inertia (J) : 0.1279 sq.ft.lb **LRC** : 8.2 Duty cycle : Cont.(S1) : F : 3.63 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 260 % : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2890 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

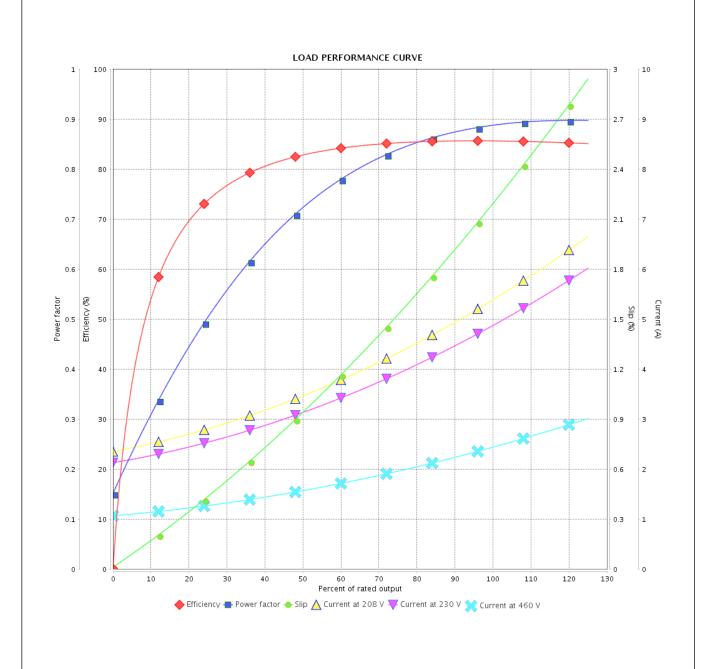


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14802734

Phase

Catalog #: 00236ET3E145T-S



Performance	nce : 230/460 V 60 Hz 2P					
Rated current	current : 4.94/2.47 A		Moment o	f inertia (J)	: 0.1279 sq.ft.lb	
LRC	: 9	0.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	2.98 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	250 %	Service fa	ctor	:	
Breakdown torque	que : 300 % Temperature rise		ıre rise	: 80 K		
Rated speed : 3520 rpm D		Design		: B		
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LOAD PERFORMANCE CURVE

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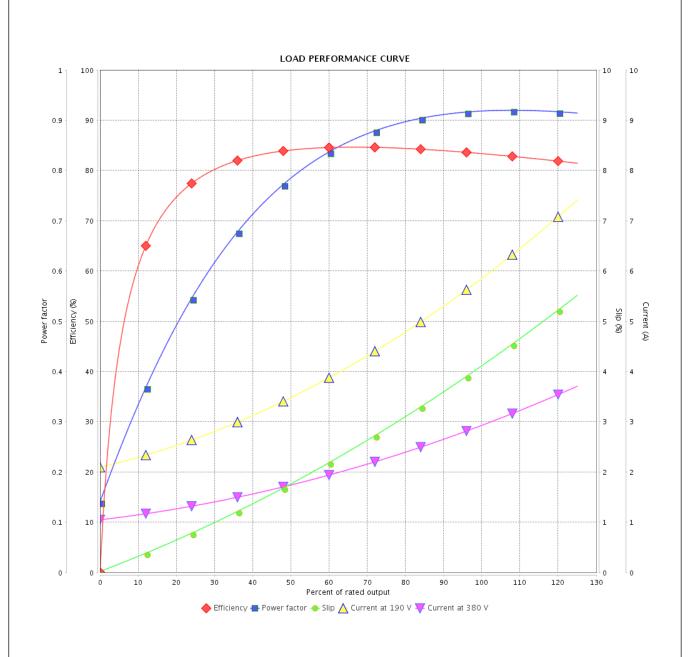


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14802734

Phase

Catalog #: 00236ET3E145T-S



Performance	: 190/380 V 50 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.94/2.97 A : 7.4 : 3.65 ft.lb : 229 % : 280 % : 2875 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1279 sq.ft : Cont.(S1) : F : 1.15 : 80 K : B	lb
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



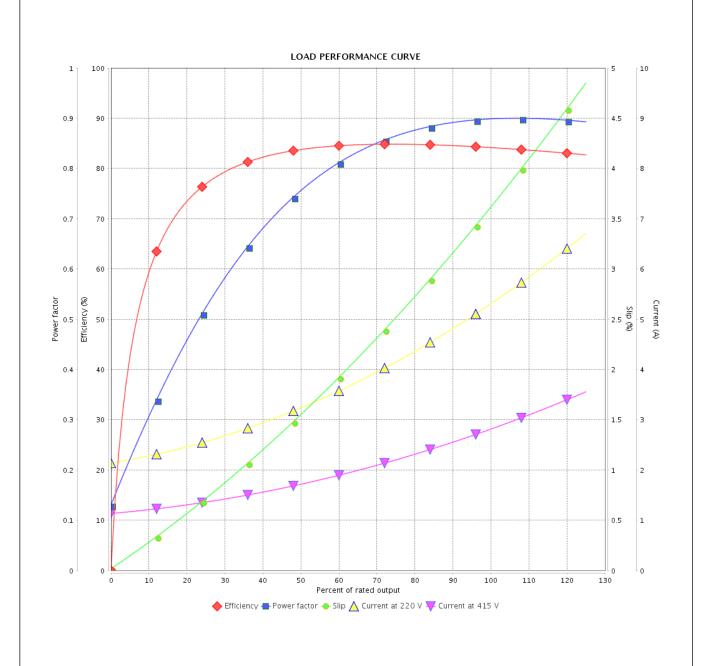
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00236ET3E145T-S

14802734



Performance	:	: 220/415 V 50 Hz 2P				
Rated current : 5.39/2.86 A		Moment o	f inertia (J)	: 0.1279 sq.ft.lb		
LRC	:	8.2	Duty cycle	;	: Cont.(S1)	
Rated torque	:	3.63 ft.lb	Insulation	class	: F	
Locked rotor torque	:	260 %	Service fa	ctor	: 1.15	
Breakdown torque		310 %	Temperature rise		: 80 K	
Rated speed		2890 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage

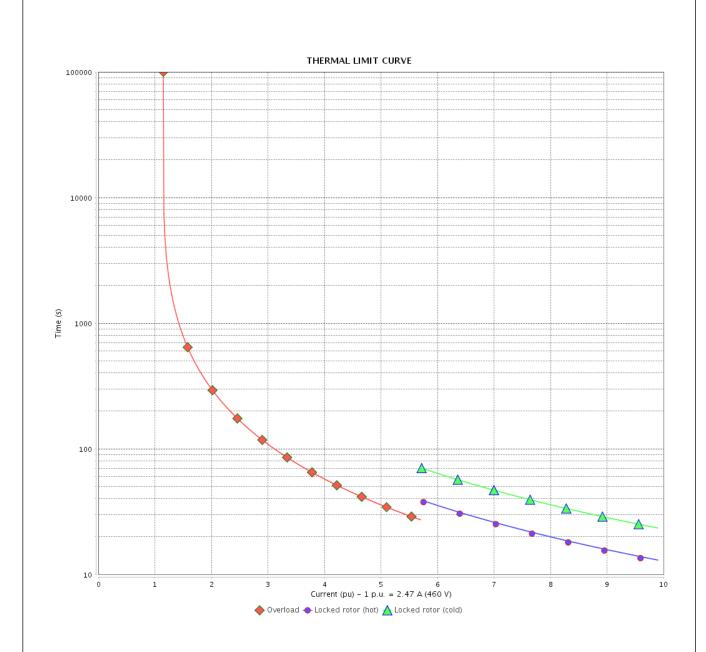


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	14802734	
	P	hase		Catalog # :	00236ET3E1	45T-S
Performance Rated current		30/460 V 60 Hz 2P .94/2.47 A	Moment	f inertia (J)	: 0.1279 sq.ft.l	h
LRC	: 9.	.9	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torque		.98 ft.lb 50 %	Insulation Service fa		: F :	
Breakdown torque	: 30	00 %	Temperatu		: 80 K	
Rated speed	: 3	520 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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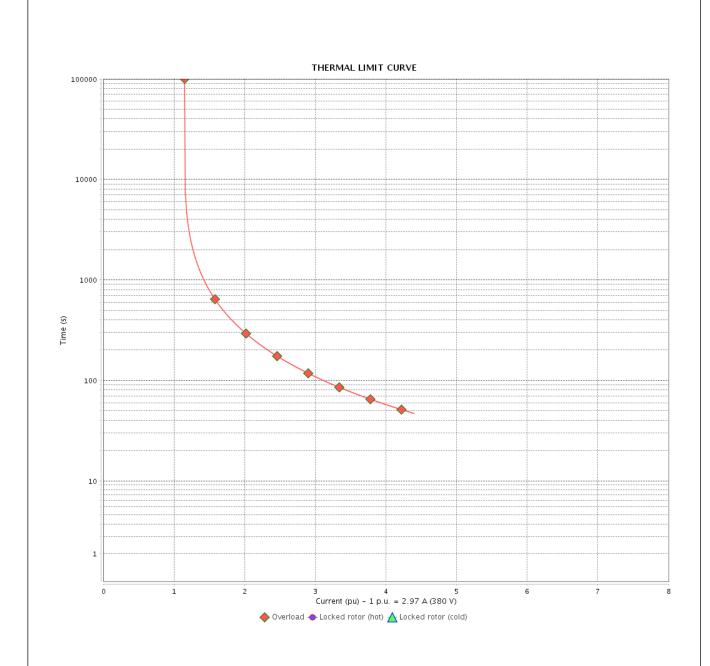


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14802734 00236ET3E1	45T-S
					0023021321	
Performance		: 190/380 V 50 Hz 2P				
Rated current LRC		: 5.94/2.97 A : 7.4	Moment of Duty cycle	of inertia (J) e	: 0.1279 sq.ft.l : Cont.(S1)	b
Rated torque		: 3.65 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 229 % : 280 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 2875 rpm	Design	G. 0 1100	: B	
Heating constan	t					
Cooling constant	t					
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Three Phase Induction Motor - Squirrel Cage



Customer



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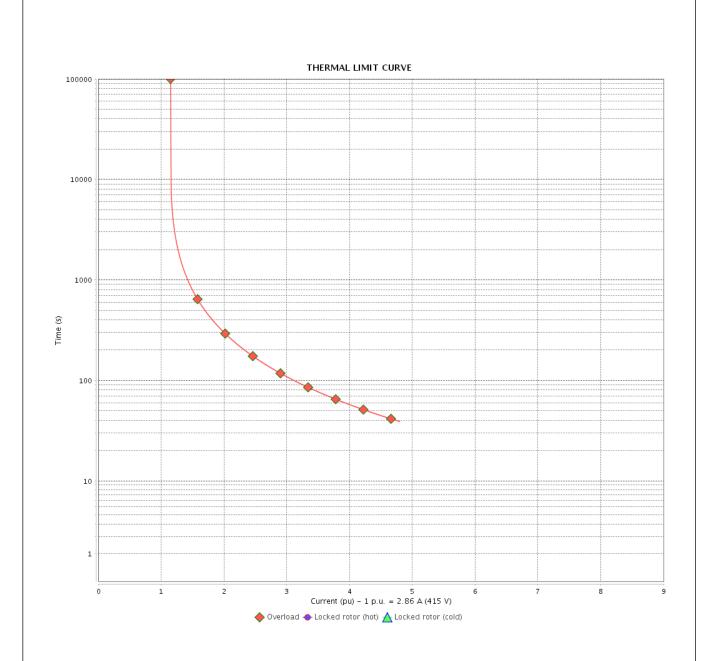


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	14802734 00236ET3E1	45T-S
Performance	: 220/415 V 50 Hz 2P : 5.39/2.86 A	Moment -	finartic (1)	. 0 4070 # !	h
Rated current LRC	: 8.2	Duty cycle	f inertia (J)	: 0.1279 sq.ft.l : Cont.(S1)	D
Rated torque	: 3.63 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 260 % : 310 %	Service fa Temperatu		: 1.15 : 80 K	
Rated speed	: 2890 rpm	Design	JIC 1136	: B	
Heating constant					
Cooling constant					
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Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

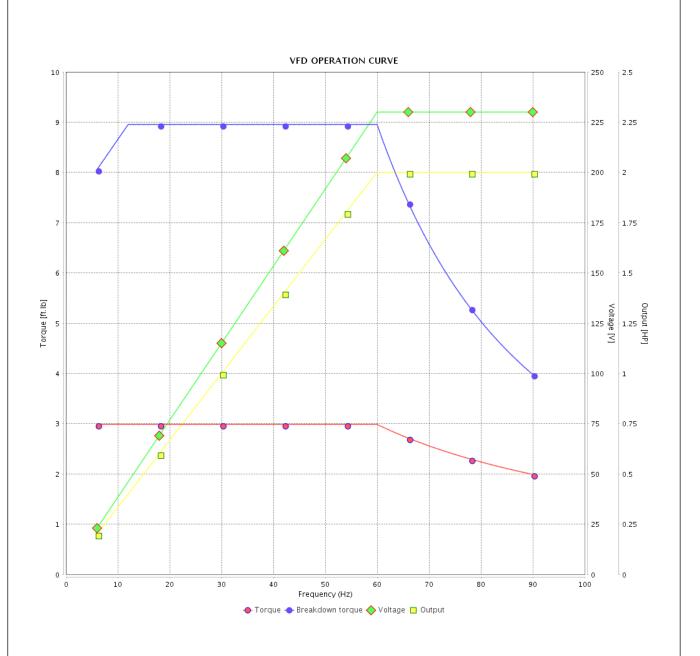
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00236ET3E145T-S

14802734

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Performance	: 230/460 V 60 Hz 2P				
renormance	. 230/400 V 00 HZ ZP				
Rated current	: 4.94/2.47 A	Moment of inertia (J)		: 0.1279 sq.ft.lb	
LRC	: 9.9	Duty cycle		: Cont.(S1)	
Rated torque			S	:F	
Locked rotor torque	: 250 %	Service factor			
Breakdown torque : 300 %		Temperature rise		: 80 K	
Rated speed	: 3520 rpm	Design		: B	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

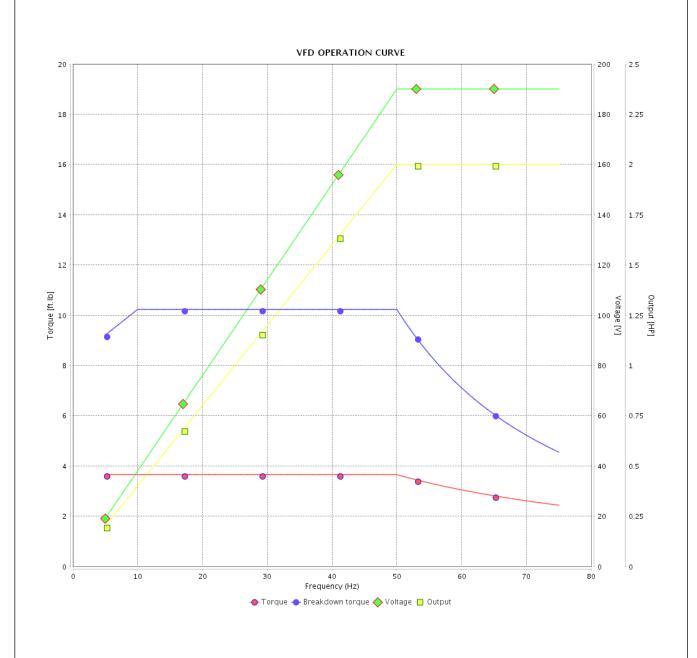


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14802734

Phase

Catalog #: 00236ET3E145T-S



Performance	: 19	90/380 V 50 Hz 2P				
Rated current LRC	rrent : 5.94/2.97 A Moment of inertia (J) : 7.4 Duty cycle		` '	: 0.1279 sq.ft.lb : Cont.(S1)		
Rated torque Locked rotor torque Breakdown torque Rated speed		.65 ft.lb 29 %	Insulation class Service factor		: F : 1.15	
		0 % Temperature rise Design		: 80 K : B		
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



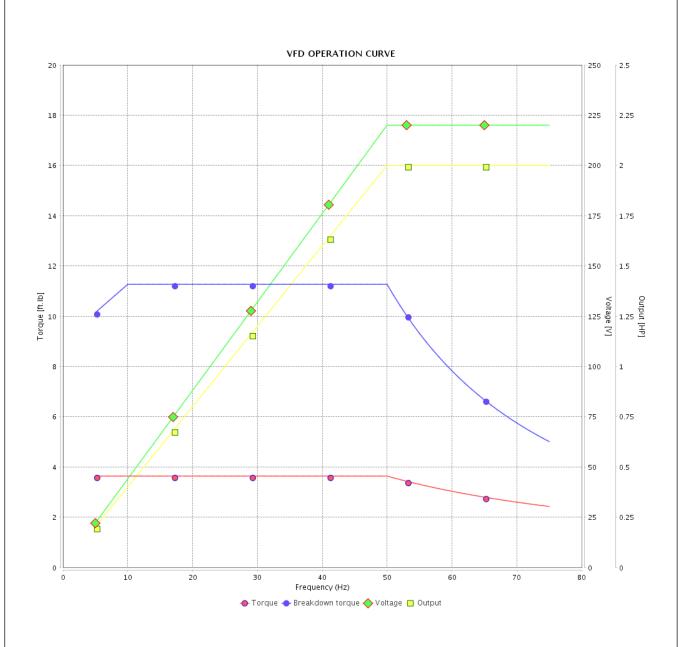
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14802734

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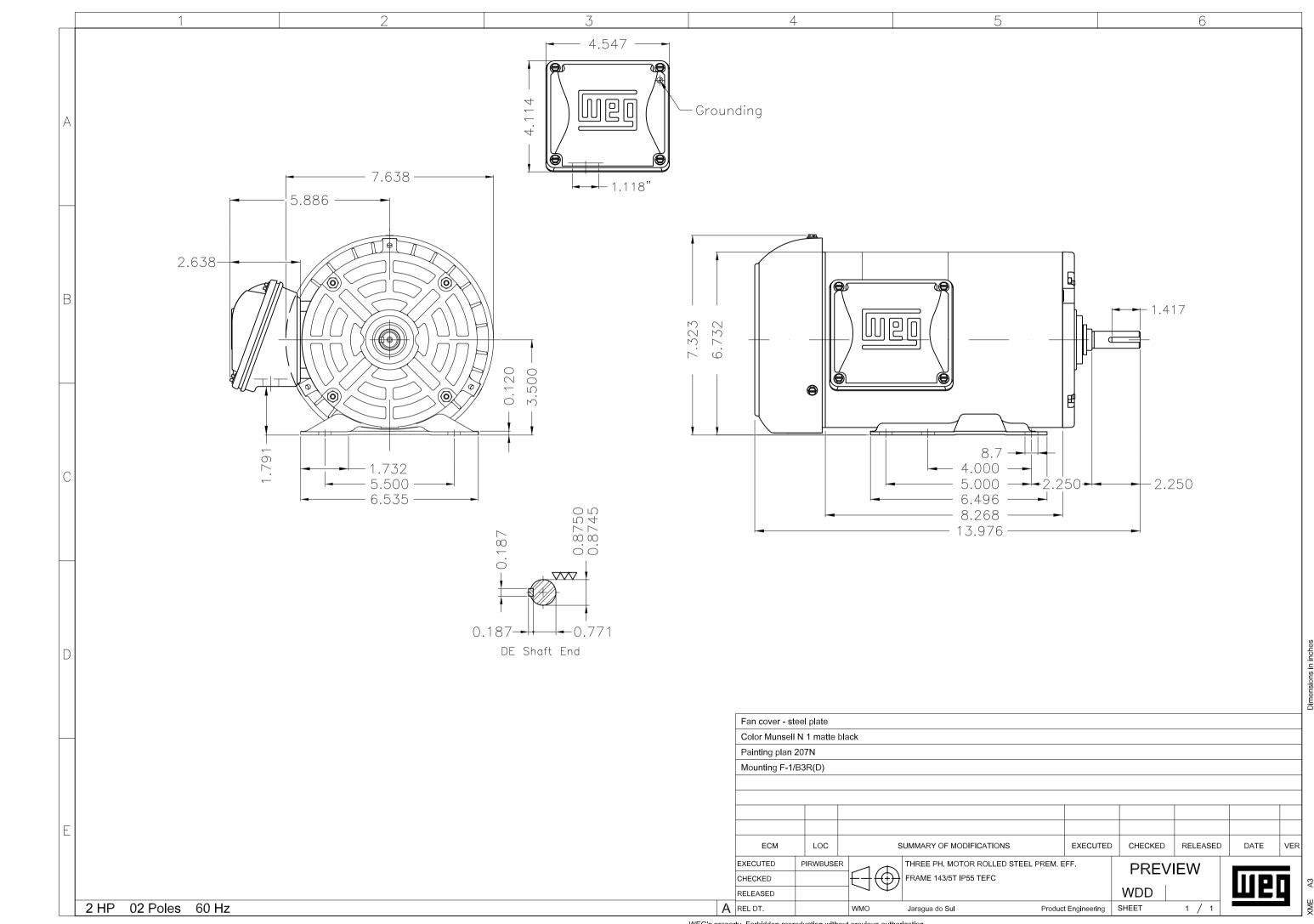


Performance	: 220/415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.39/2.86 A : 8.2 : 3.63 ft.lb : 260 % : 310 % : 2890 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1279 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Date





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FOR SAFE AREA

3PT9

Energy Verifi

14802734 MADE IN MÉXICO

MODEL 00236ET3E145T-S N01.TE0IC0X0N 3FEB2022

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

> 8 4 143/51

P55 SHO 1000 m.a.s.l F AT 80K CONT

NSC

4.94/2.47

5.68/2.8 230/460 1.15

> CODE SABLE @ 208V 5.46A ALTERNATE RATING:

SF1.00 INC. WB

TEFC 20°C

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT. 10:1 CT 2.0HP 5.94-5.23/2.97-2.77A ago

50 Hz

6203-ZZ 9

2

8205-ZZ

EFF 83.3%

IEC 60034-1

SF1.15

190-220/380-415V

85.5%

NOM EFF 2875RPM

ZPM 3FA 냃 쌆

MOBIL POLYREX EM

T2-WHT

T9-RRK RFD 13-ORG 1-810 I7-PNK F5-BLK

T8-RED F6-GRY r4-YEL



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

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