## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12674955

Phase

Catalog #: 00218OT3E145T-SG

Frame : 143/5T Cooling method : IC01 - ODP Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) : -20°C to +40°C Ambient temperature Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 40.3 lb Altitude Design : B Moment of inertia (J) : 0.1168 sq.ft.lb Output [HP]

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]		5.38/2.69	6.52/3.26	5.90/3.13
L. R. Amperes [A]		41.4/20.7	36.5/18.3	36.6/19.4
LRC [A]		7.7x(Code K)	5.6x(Code G)	6.2x(Code H)
No load current [A	]	2.75/1.38	2.70/1.35	2.82/1.49
Rated speed [RPN	<b>/</b> 1]	1740	1410	1420
Slip [%]		3.33	6.00	5.33
Rated torque [ft.lb]		6.04	7.45	7.40
Locked rotor torqu	e [%]	260	200	220
Breakdown torque	[%]	320	229	260
Service factor			1.00	1.00
Temperature rise		80 K	105 K	80 K
Locked rotor time		30s (cold) 17s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%	85.2	88.2	86.4
Efficiency (%)	50%	85.5	85.9	85.2
Emclericy (70)	75%	86.5	85.0	85.2
	100%	86.5	82.2	83.4
	25%	0.36	0.42	0.38
Power Factor	50%	0.61	0.69	0.64
I OWEI FACIOI	75%	0.74	0.80	0.77
	100%	0.81	0.85	0.83

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

Bearing type : 6205 ZZ 6203 ZZ Max. traction : 147 lb Sealing : Without Without Max. compression : 187 lb

Bearing Seal Bearing Seal

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

Notes

USABLE @208V 5.95A SF 1.00 SFA 5.95A

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



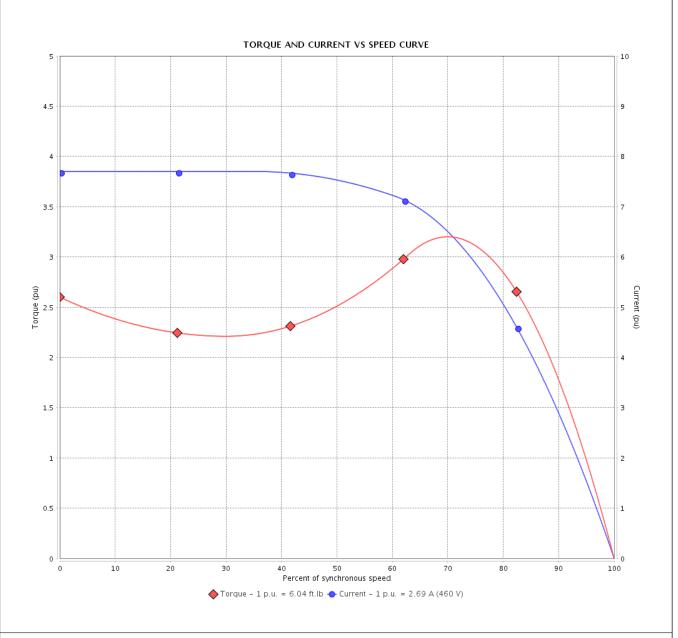
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12674955

Catalog #: 00218OT3E145T-SG



Performance : 230/460 V 60 Hz 4P Rated current : 5.38/2.69 A Moment of inertia (J) : 0.1168 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : F : 6.04 ft.lb Insulation class Rated torque : 260 % Service factor Locked rotor torque : 80 K Breakdown torque : 320 % Temperature rise Rated speed : 1740 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

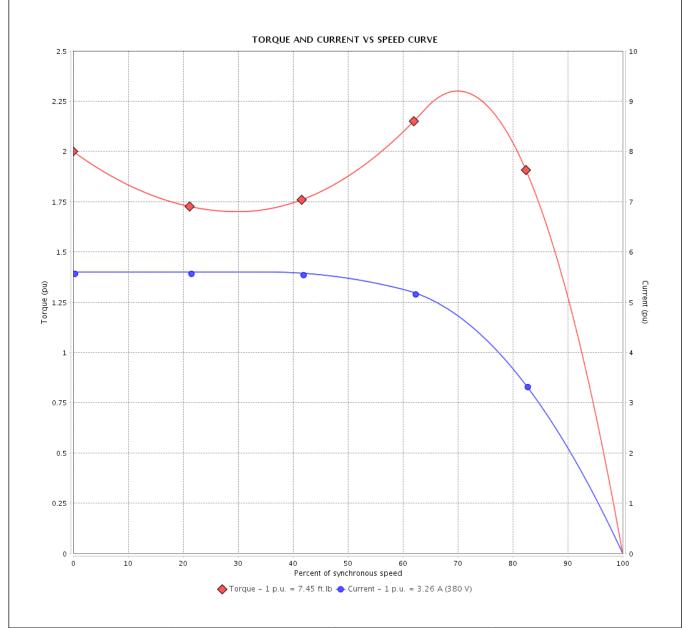


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12674955

Phase

Catalog #: 00218OT3E145T-SG



Performance : 190/380 V 50 Hz 4P Rated current : 6.52/3.26 A Moment of inertia (J) : 0.1168 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 7.45 ft.lb : 1.00 Locked rotor torque : 200 % Service factor Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 1410 rpm Design : B

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

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## TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



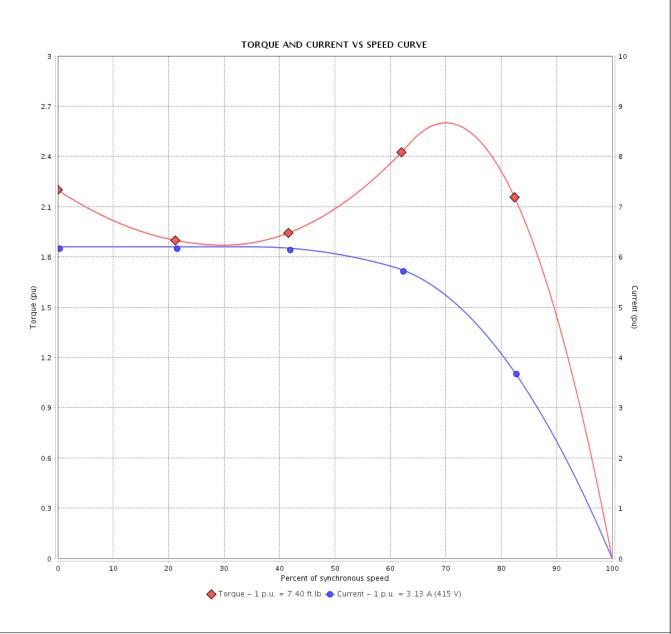
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12674955

Catalog #: 00218OT3E145T-SG



Performance : 220/415 V 50 Hz 4P Rated current : 5.90/3.13 A Moment of inertia (J) : 0.1168 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : F : 7.40 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 220 % : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1420 rpm Design : B

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

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

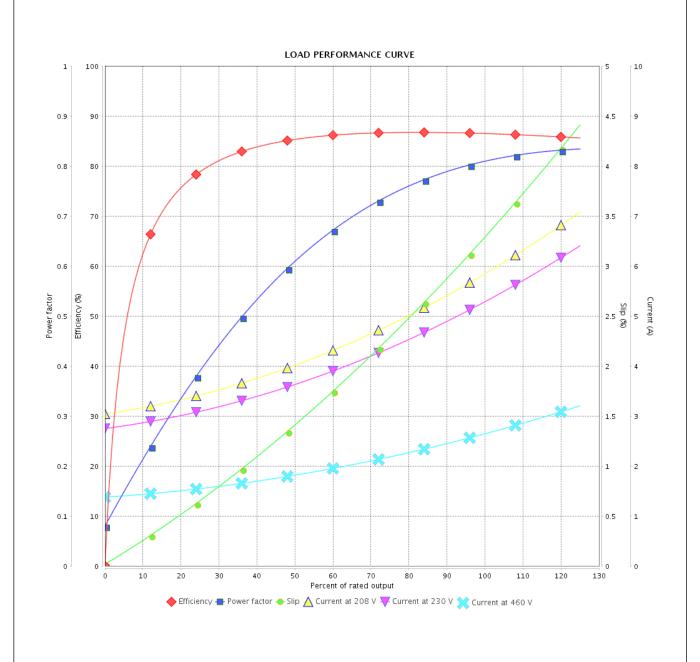


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12674955

Phase

Catalog #: 00218OT3E145T-SG



Performance	:	230/460 V 60 Hz 4P				
Rated current	:	5.38/2.69 A	Moment o	f inertia (J)	: 0.1168 sq.ft.lb	
LRC	:	7.7	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	6.04 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	260 %	Service fa	ctor	:	
Breakdown torque	:	320 %	Temperature rise		: 80 K	
Rated speed	:	1740 rpm	Design		: B	
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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

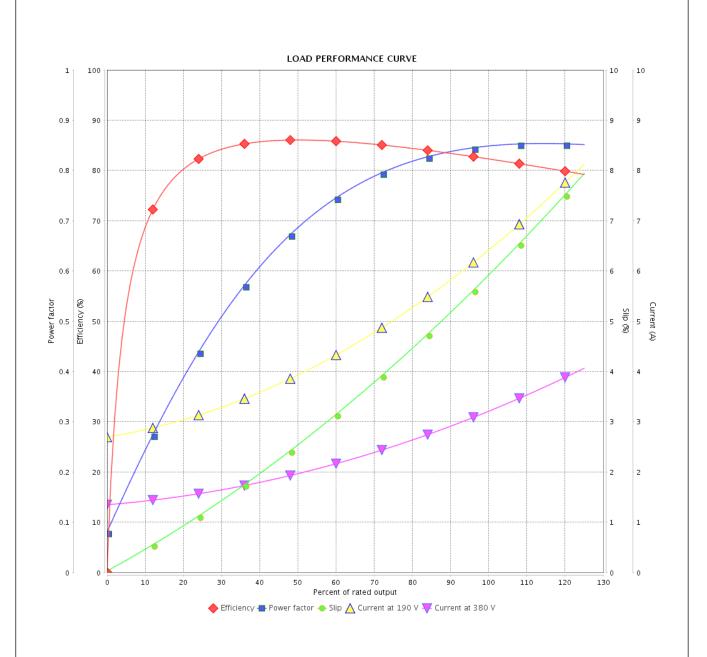


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12674955

Phase

Catalog #: 00218OT3E145T-SG



Performance	: 1	: 190/380 V 50 Hz 4P						
Rated current	: 6	.52/3.26 A	Moment of	f inertia (J)	: 0.1168 sq.ft.	lb		
LRC	: 5	.6	Duty cycle	;	: Cont.(S1)			
Rated torque	: 7	.45 ft.lb	Insulation	class	: F			
Locked rotor tord	que : 2	00 %	Service fa	ctor	: 1.00			
Breakdown torqu	ie : 2	29 %	Temperat	Temperature rise				
Rated speed	: 1	410 rpm	Design		: B			
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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

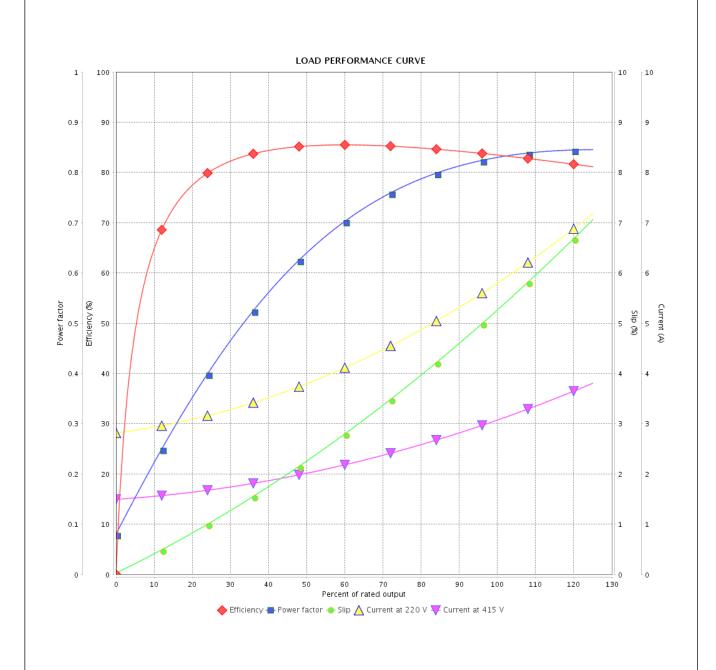


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12674955

Phase

Catalog #: 00218OT3E145T-SG



Performance	: 2	20/415 V 50 Hz 4P				
Rated current	ated current : 5.90/3.13 A		Moment of	Moment of inertia (J)		lb
LRC	: 6	.2	Duty cycle	•	: Cont.(S1)	
Rated torque	: 7	.40 ft.lb	Insulation	class	: F	
Locked rotor toro	que : 2	20 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 2	60 %	Temperat	Temperature rise		
Rated speed	: 1	420 rpm	Design		: B	
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## Three Phase Induction Motor - Squirrel Cage

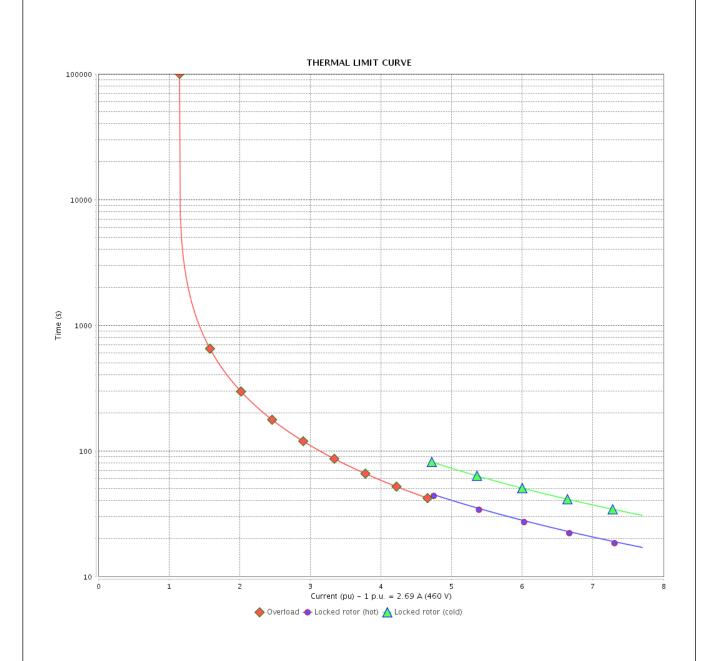


Customer	:			
Product line	: NEMA Premium Efficiency ∃ Phase	Three- Product code :  Catalog # :	12674955 00218OT3E1	45T-SG
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 230/460 V 60 Hz 4P : 5.38/2.69 A : 7.7 : 6.04 ft.lb : 260 % : 320 % : 1740 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1168 sq.ft.ll : Cont.(S1) : F : : 80 K : B	<b>D</b>
Heating constant  Cooling constant  Rev.	Changes Summary	Performed	Checked	Date
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## Three Phase Induction Motor - Squirrel Cage



Customer



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## Three Phase Induction Motor - Squirrel Cage

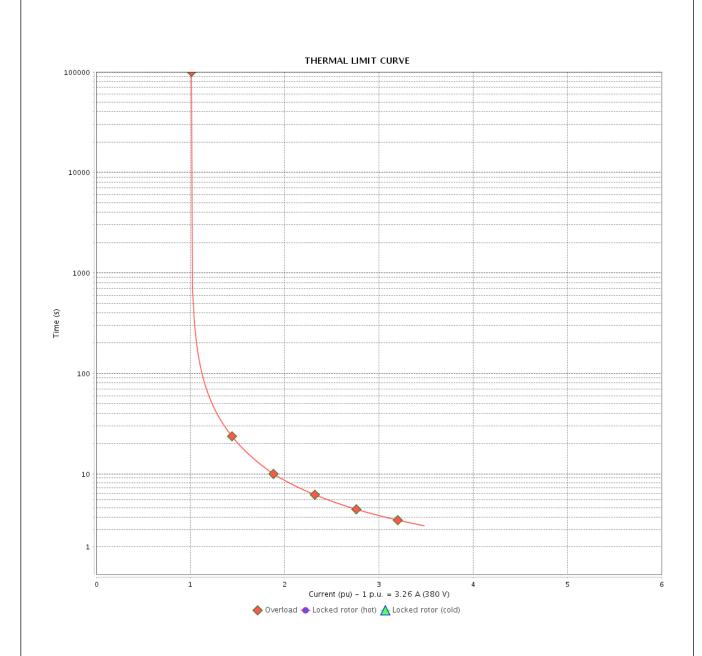


Customer	:					
Product line	:1	NEMA Premium Efficiency	Three-	Product code :	12674955	
		hase			00218OT3E1	AET CO
				Catalog # :	00218O13E	451-5G
Performance		90/380 V 50 Hz 4P				
Rated current LRC	: 6. : 5.	.52/3.26 A	Moment o	f inertia (J)	: 0.1168 sq.ft.l : Cont.(S1)	b
Rated torque	: 7.	.45 ft.lb	Insulation	class	: F	
Locked rotor torque		00 %	Service fa		: 1.00	
Breakdown torque Rated speed		29 % 410 rpm	Temperatu Design	ure rise	: 105 K : B	
Heating constant		•	+ -			
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



Customer



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## Three Phase Induction Motor - Squirrel Cage

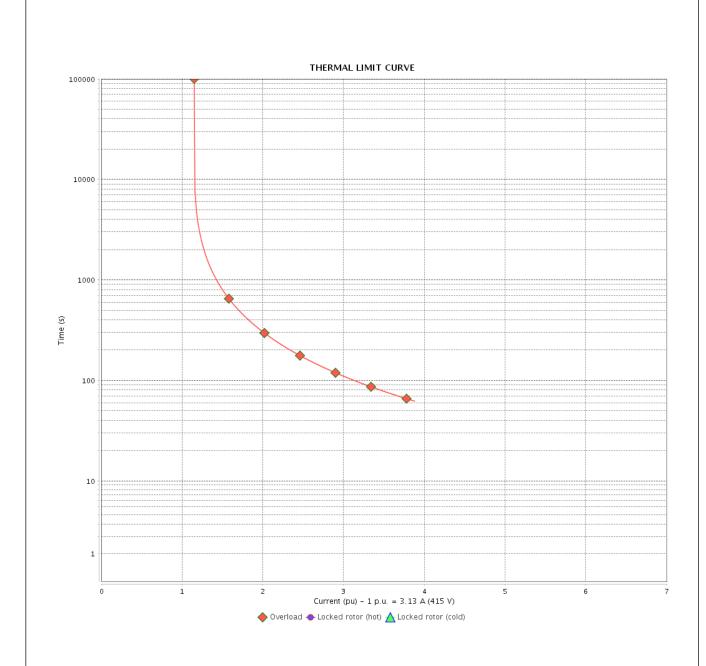


Customer		:					
Product line		: NEMA Premium Efficiency		Product code :	12674955		
		Phase		Catalog # :	00218OT3E1	AET CC	
					0021001021		
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Performance Rated current		: 220/415 V 50 Hz 4P : 5.90/3.13 A	Momont	of inertia (J)	· 0 1169 cc # !!	<u> </u>	
LRC	:	: 6.2	Duty cycl	е	: 0.1168 sq.ft.ll : Cont.(S1)	J	
Rated torque		: 7.40 ft.lb	Insulation	n class	: F		
Locked rotor torque Breakdown torque		: 220 % : 260 %	Service fa Temperat		: 1.00 : 80 K		
Rated speed		: 1420 rpm	Design	•	: B		
Heating constant	t						
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 :

Date

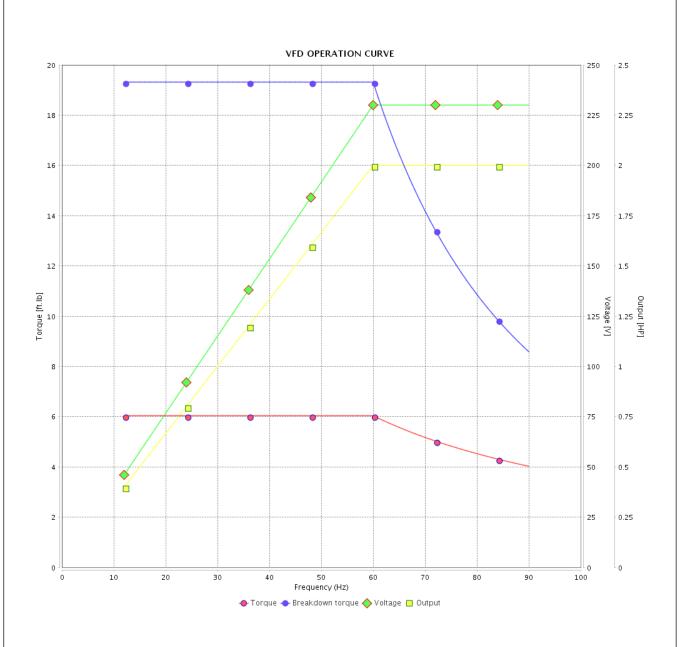
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Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 12674955

Catalog #: 00218OT3E145T-SG



Performance : 230/460 V 60 Hz 4P Rated current : 5.38/2.69 A Moment of inertia (J) : 0.1168 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 6.04 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1740 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



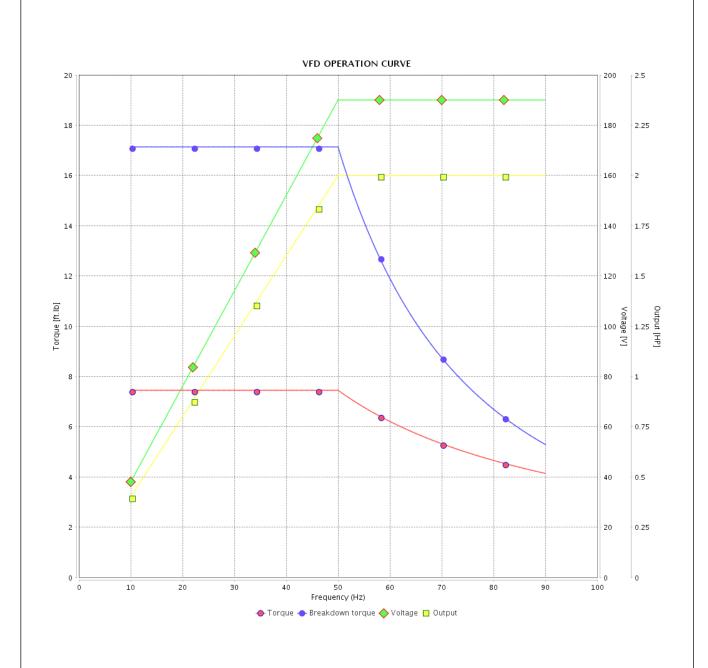
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12674955

Phase

Catalog #: 00218OT3E145T-SG

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Performance	: 190/380 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.52/3.26 A : 5.6 : 7.45 ft.lb : 200 % : 229 % : 1410 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1168 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
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## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

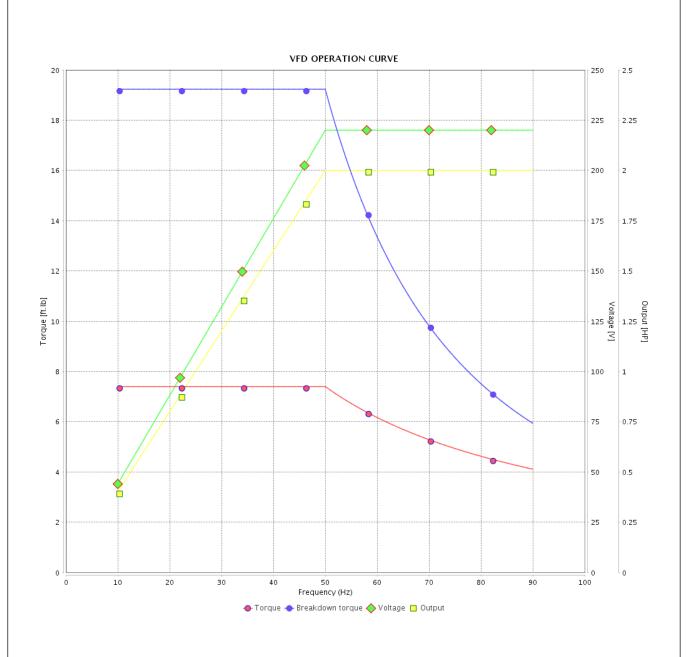
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00218OT3E145T-SG

12674955

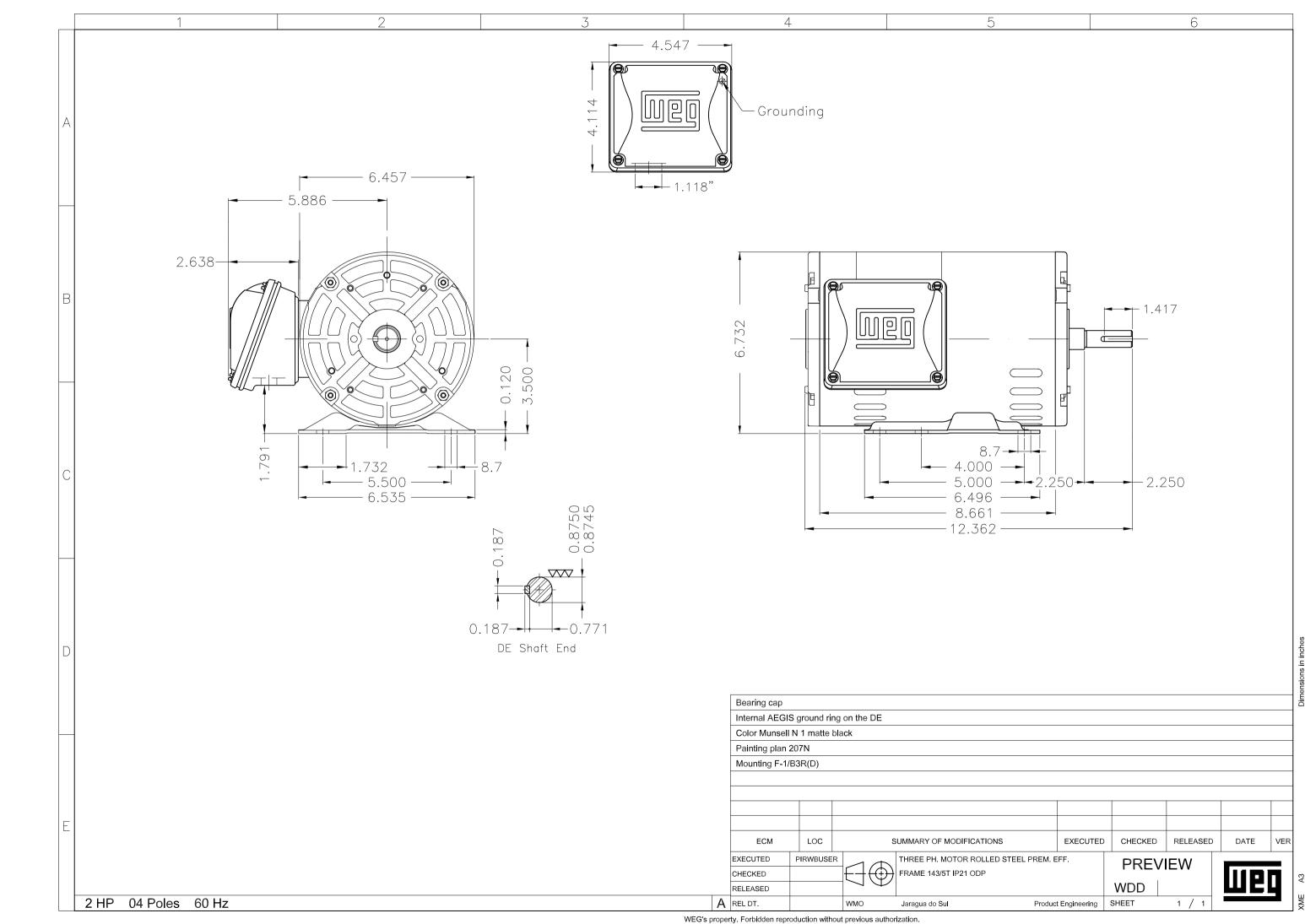
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Performance	: 220/415 V	50 Hz 4P			
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed		Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.1168 sq.ft : Cont.(S1) : F : 1.00 : 80 K : B	lb
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MADE IN MÉXICO 

(**UL)**US LISTED 3PT9

Energy Verifi

**&** 

MODEL 002180T3E145T-SG B/N N01.TODICOXON 24MAR2022

CC029A

12674955

8 4 1000 m.a.s.l 143/51 CONT

5.38/2.69

230/460 1.15

> CODE DES SABLE @ 208V 5.95A F AT 80K 2°04 900

NSC

ZPM 3FA 냃 쌆

> 2.0HP 3.52-5.79/3.26-3.07A

LTERNATE RATING:

SF1.00 NCL 2

86.5%

NOM EFF 1410RPM 50 Hz

IEC 60034-1

5:1 CT

SF1.00

190-220/380-415V

**EFF 82.2%** 

8203-ZZ

900

8205-ZZ

9

2

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. MOBIL POLYREX EM 19

13-ORG I7-PNK F5-BLK

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





shocks. Disconnect power source before servicing unit.

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