DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00236OT3E145TC-S

190/380

0.83

0.90

Frame : 143/5TC Cooling method : IC01 - ODP

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 : 37.6 lb Moment of inertia (J) : B

Design : 0.1151 sq.ft.lb Output [HP] 2 2 Poles 2 2 2 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 220/415

Rated current [A] 4.84/2.42 5.82/2.91 5.26/2.79 L. R. Amperes [A] 43.1/21.5 40.2/20.1 40.0/21.2 LRC [A] 8.9x(Code K) 6.9x(Code H) 7.6x(Code J) No load current [A] 1.83/0.917 1.81/0.906 1.84/0.978 Rated speed [RPM] 3510 2890 2900 Slip [%] 2.50 3.67 3.33 Rated torque [ft.lb] 2.99 3.63 3.62 Locked rotor torque [%] 220 180 200 Breakdown torque [%] 330 250 280 Service factor 1.15 1.15 Temperature rise 80 K 80 K 80 K 0s (cold) 0s (hot) Locked rotor time 25s (cold) 14s (hot) 0s (cold) 0s (hot) Noise level² 62.0 dB(A) 60.0 dB(A) 60.0 dB(A) 25% 83.7 85.5 85.4 50% 84.0 85.0 84.7 Efficiency (%) 75% 85.5 85.1 85.4 100% 85.5 84.2 84.3 25% 0.49 0.52 0.56

100% 0.91 0.93 Non drive end Foundation loads Drive end

0.77

0.86

Bearing type 6205 ZZ 6203 ZZ : 69 lb Max. traction Sealing Without Without Max. compression : 107 lb

Bearing Seal Bearing Seal

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

Power Factor

USABLE @208V 5.35A SF 1.00 SFA 5.35A

50%

75%

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.

0.80

0.88

0.92

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

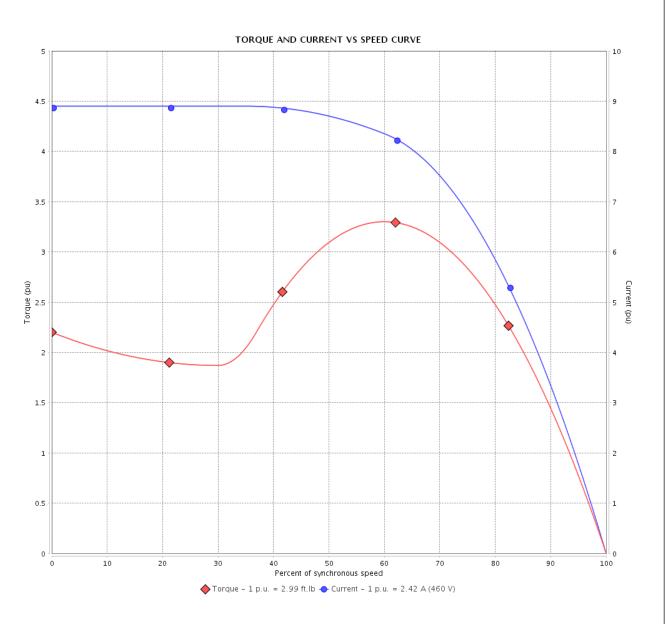


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12674627

Phase

Catalog #: 00236OT3E145TC-S



Performance : 230/460 V 60 Hz 2P Rated current : 4.84/2.42 A Moment of inertia (J) : 0.1151 sq.ft.lb **LRC** : 8.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.99 ft.lb Locked rotor torque : 220 % Service factor : 80 K Breakdown torque : 330 % Temperature rise Rated speed : 3510 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

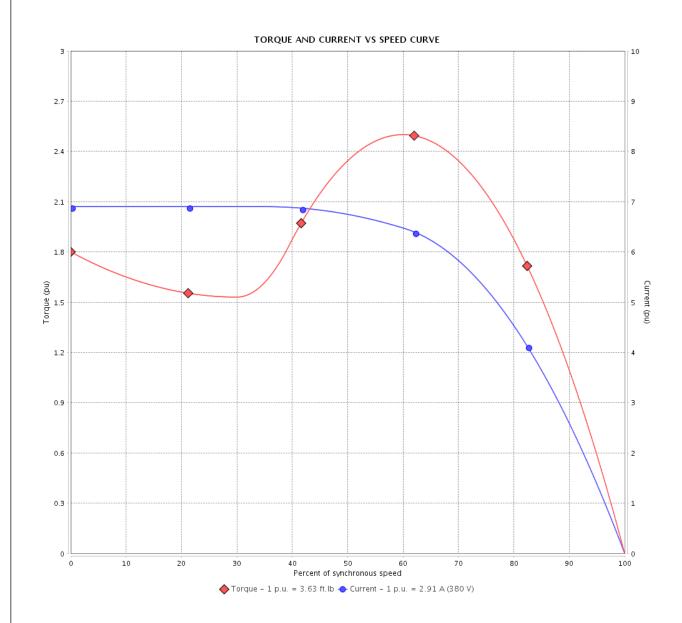
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12674627 Catalog #: 00236OT3E145TC-S



Performance : 190/380 V 50 Hz 2P Rated current : 5.82/2.91 A Moment of inertia (J) : 0.1151 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 3.63 ft.lb : 180 % Locked rotor torque Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K : B Rated speed : 2890 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

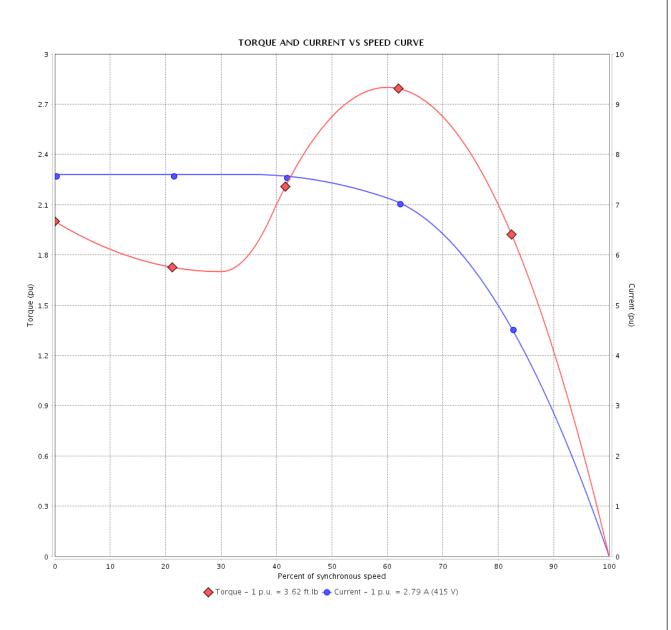


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 12674627

Catalog #: 00236OT3E145TC-S



Performance : 220/415 V 50 Hz 2P Rated current : 5.26/2.79 A Moment of inertia (J) : 0.1151 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : F : 3.62 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 200 % : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B Locked rotor time

: 0s (cold) 0s (hot)

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LOAD PERFORMANCE CURVE

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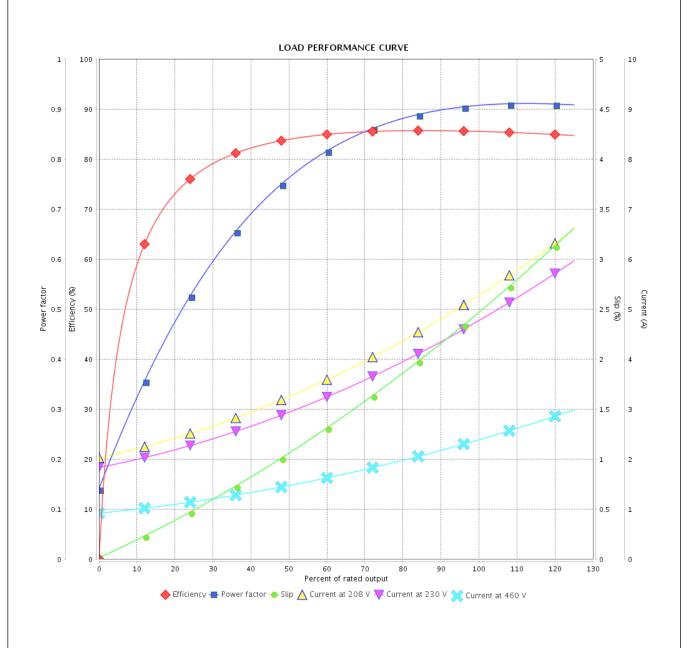


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12674627

Phase

Catalog #: 00236OT3E145TC-S



Performance		: 230/460 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	e	: 4.84/2.42 A Moment of inertia (J) : 0.1151 so : 8.9 Duty cycle : Cont.(S1) : 2.99 ft.lb Insulation class : F : 220 % Service factor : : 330 % Temperature rise : 80 K : 3510 rpm Design : B		Insulation class Service factor Temperature rise		lb		
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



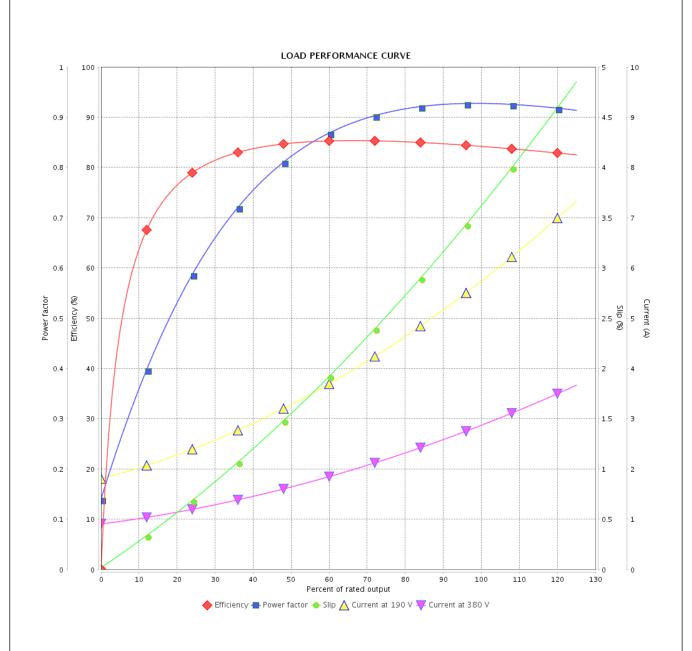
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Phase

Catalog #: 00236OT3E145TC-S

12674627



· 190/380 V 50 Hz 2P				
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	: 6.9 : 3.63 ft.lb : 180 % : 250 % : 2890 rpm	: 5.82/2.91 A : 6.9 : 3.63 ft.lb : 180 % : 250 % : 2890 rpm Moment of inertia (Duty cycle Insulation class Service factor Temperature rise Design	: 5.82/2.91 A Moment of inertia (J) : 6.9 Duty cycle : 3.63 ft.lb Insulation class : 180 % Service factor : 250 % Temperature rise : 2890 rpm Design	: 5.82/2.91 A Moment of inertia (J) : 0.1151 sq.ft. : 6.9 Duty cycle : Cont.(S1) : 3.63 ft.lb Insulation class : F : 180 % Service factor : 1.15 : 250 % Temperature rise : 80 K : 2890 rpm Design : B

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



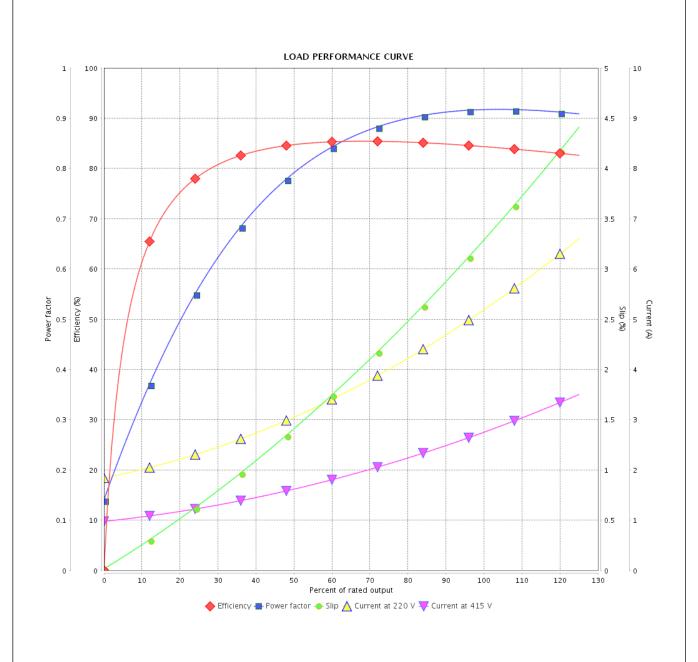
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00236OT3E145TC-S

12674627



Performance	: 2	220/415 V 50 Hz 2P				
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LRC	: 7	7.6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	3.62 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	.00 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	80 %	Temperati	Temperature rise		
Rated speed : 2900 rp		900 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage

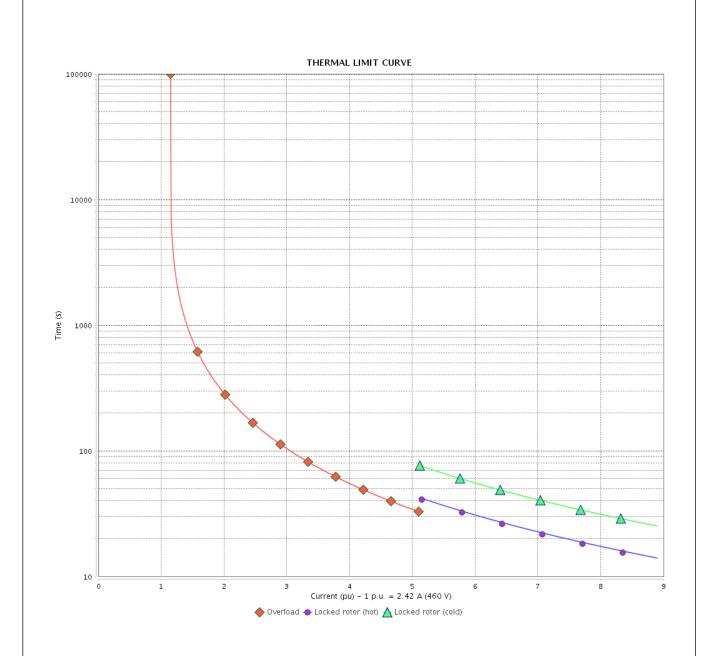


Rated torque : 2.99 ft.lb	Customer		:				
Performance : 230/460 V 60 Hz 2P Rated current : 4.484/2.42 A	Product line		· NEMA Premium Efficiency	Three-	Product code :	12674627	
Performance							
Rated current : 4.84/2.42 A					Catalog # :	00236OT3E	145TC-S
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Rated current : 4.84/2.42 A							
LRC : 8.9 Duty cycle : Cont.(S1) Rated torque : 2.99 ft.lb Insulation class : F Locked rotor torque : 220 % Service factor : Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 3510 rpm Design : B Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by				Mamonta	finartia (I)	. 0 1151 og ft l	h
Rated torque : 2.99 ft.lb Insulation class : F Locked rotor torque : 220 % Service factor : Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 3510 rpm Design : B Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision	LRC			Duty cycle	er inertia (J)	: 0.1151 Sq.π.1	D
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Rated speed : 3510 rpm Design : B Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision						: : 80 K	
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Three Phase Induction Motor - Squirrel Cage



Customer



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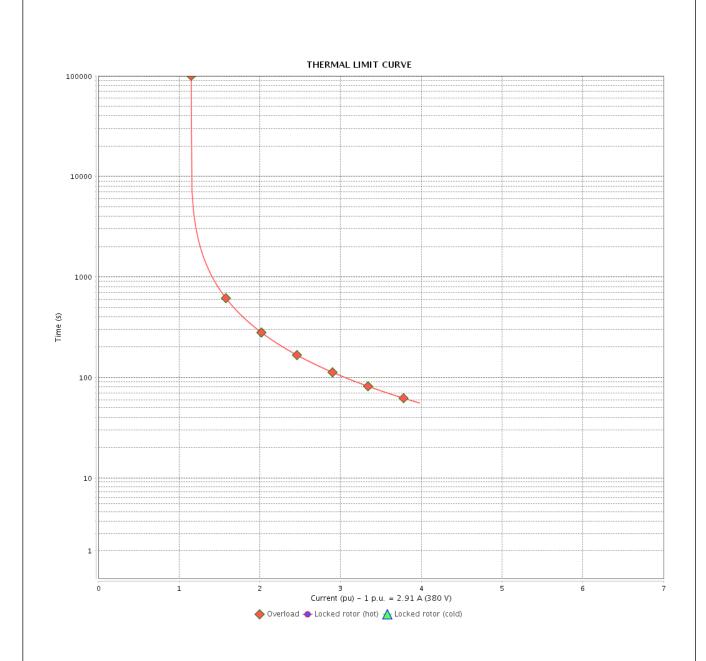


Customer	:			<u>.</u>	
Product line	: NEMA Premium Efficiency Phase		Product code :	12674627 00236OT3E	145TC-S
Performance	: 190/380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.82/2.91 A : 6.9 : 3.63 ft.lb : 180 % : 250 % : 2890 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1151 sq.ft.l : Cont.(S1) : F : 1.15 : 80 K : B	b
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Three Phase Induction Motor - Squirrel Cage



Customer :



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Three Phase Induction Motor - Squirrel Cage

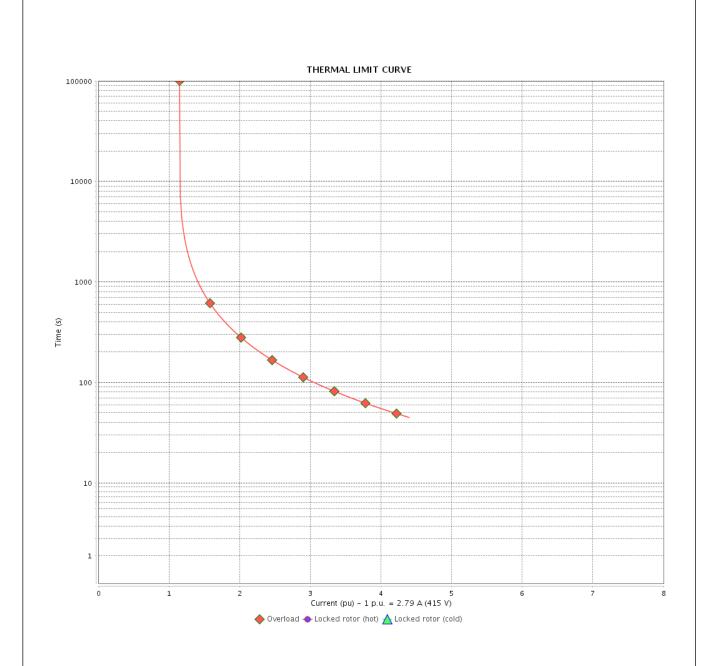


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12674627 00236OT3E ²	145TC-S
Performance	: 220/415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 220/415 V 50 Hz 2P : 5.26/2.79 A : 7.6 : 3.62 ft.lb : 200 % : 280 % : 2900 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 0.1151 sq.ft.I : Cont.(S1) : F : 1.15 : 80 K : B	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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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



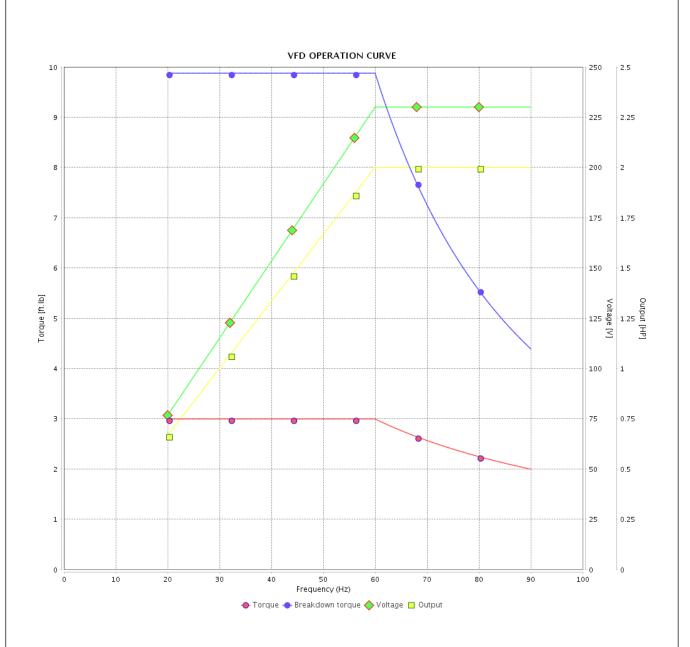
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12674627

Catalog #: 00236OT3E145TC-S

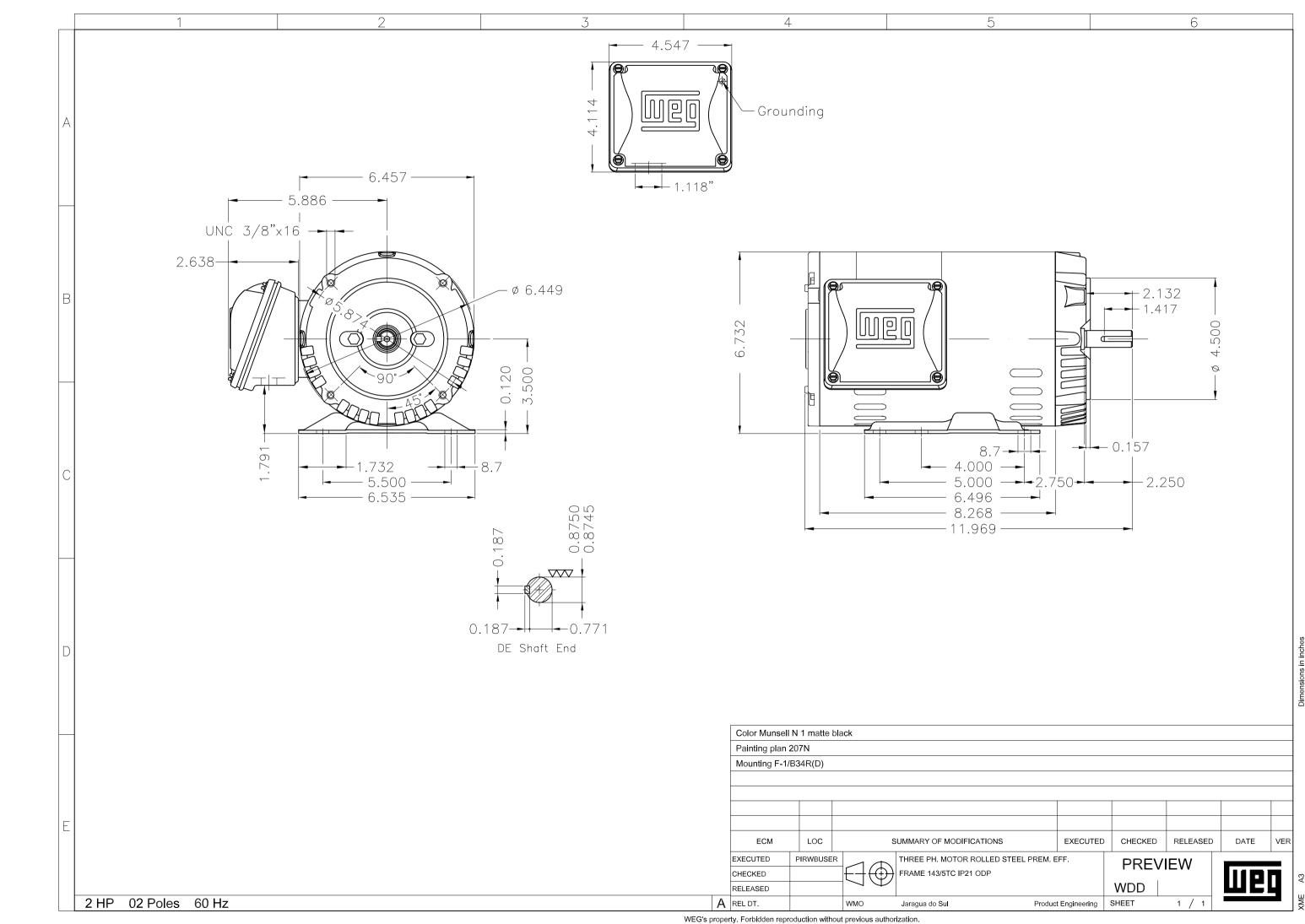


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Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.84/2.42 A : 8.9 : 2.99 ft.lb : 220 % : 330 % : 3510 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1151 sq.ft.lb : Cont.(S1) : F : : 80 K : B	
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13/04/2022

Date





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3PT9

Energy Verifi

N01.TODICOXON 12674627 MADE IN MÉXICO



















MODEL 002360T3E145TC-S





































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143/5TC 2ABR2021

CONT

230/460 1.15 0.91

5.57/2.78

1000 m.a.s.l

F AT 80K

NSC

2°04 900

IEC 60034-1 T6-GRY T2-WHT T8-RED T4-YEL SF1.15 Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 3:1 CT 13-ORG 1-BLU I7-PNK F5-BLK

5

MOBIL POLYREX EM

8203-ZZ 2.0HP

800

8205-ZZ

9

2

190-220/380-415V

85.5%

NOM EFF ZSOORPIM

50 Hz

5.82-5.11/2.91-2.71A

LTERNATE RATING:

ZPM 3FA 냃 쌆

> CODE DES

SABLE @ 208V 5.35A

SF1.00 INC. 2

EFF 84.2%

T9-BRK RED

shocks. Disconnect power source before servicing unit. WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

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