DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Product line : NEMA Premium Efficiency Three-Product code: 12628877 Catalog #: 00336OT3E145TC-S 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 : 40.9 lb Moment of inertia (J) Design : B : 0.1279 sq.ft.lb Output [HP] 3 3 Poles 2 2 2 50 Frequency [Hz] 60 50 220/415 Rated voltage [V] 230/460 190/380 Rated current [A] 7.18/3.59 8.78/4.39 7.83/4.15 L. R. Amperes [A] 57.4/28.7 53.6/26.8 53.2/28.2 LRC [A] 8.0x(Code J) 6.1x(Code G) 6.8x(Code H) No load current [A] 2.60/1.30 2.60/1.30 2.71/1.44 Rated speed [RPM] 3480 2825 2840 Slip [%] 3.33 5.83 5.33 Rated torque [ft.lb] 4.53 5.58 5.55 Locked rotor torque [%] 229 190 220 Breakdown torque [%] 300 229 250 Service factor 1.00 1.00 Temperature rise 80 K 105 K 105 K Locked rotor time 16s (cold) 9s (hot) 0s (cold) 0s (hot) 0s (cold) 0s (hot) Noise level² 62.0 dB(A) 60.0 dB(A) 60.0 dB(A) 25% 83.7 89.4 88.4 50% 84.0 86.6 86.5 Efficiency (%) 75% 85.5 85.0 85.6 100% 85.5 83.2 81.8 25% 0.50 0.51 0.56 50% 0.76 0.79 0.83 Power Factor 75% 0.86 0.90 0.88 100% 0.90 0.92 0.93 Non drive end Foundation loads Drive end Bearing type 6205 ZZ 6203 ZZ : 100 lb Max. traction Sealing Without Without Max. compression : 141 lb

Bearing Seal Bearing Seal

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 7.94A SF 1.00 SFA 7.94A

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



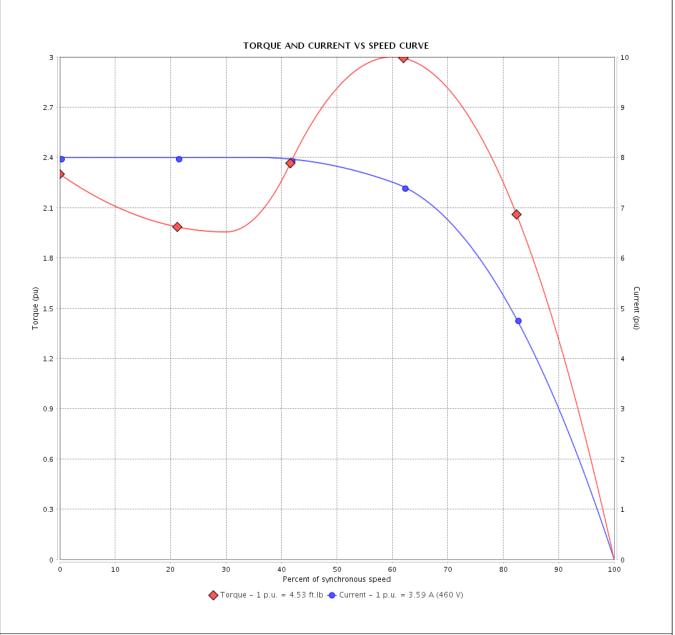
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12628877

Catalog #: 00336OT3E145TC-S



Performance : 230/460 V 60 Hz 2P Rated current : 7.18/3.59 A Moment of inertia (J) : 0.1279 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) : F : 4.53 ft.lb Insulation class Rated torque Locked rotor torque : 229 % Service factor : 80 K Breakdown torque : 300 % Temperature rise Rated speed : 3480 rpm Design : B

Locked rotor time : 16s (cold) 9s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12628877 Catalog #: 00336OT3E145TC-S TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 5.58 ft.lb ◆ Current - 1 p.u. = 4.39 A (380 V) Performance : 190/380 V 50 Hz 2P Rated current : 8.78/4.39 A Moment of inertia (J) : 0.1279 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 5.58 ft.lb Insulation class : F Rated torque Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 2825 rpm Design : B Locked rotor time : 0s (cold) 0s (hot) Rev. **Changes Summary** Performed Checked Date

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



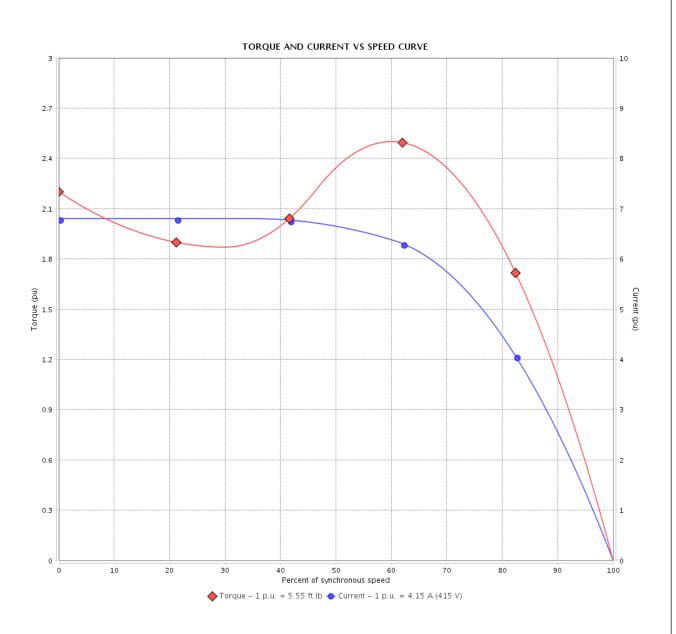
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12628877

Catalog #: 00336OT3E145TC-S



Performance : 220/415 V 50 Hz 2P Rated current : 7.83/4.15 A Moment of inertia (J) : 0.1279 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 5.55 ft.lb : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 2840 rpm Design : B Locked rotor time : 0s (cold) 0s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

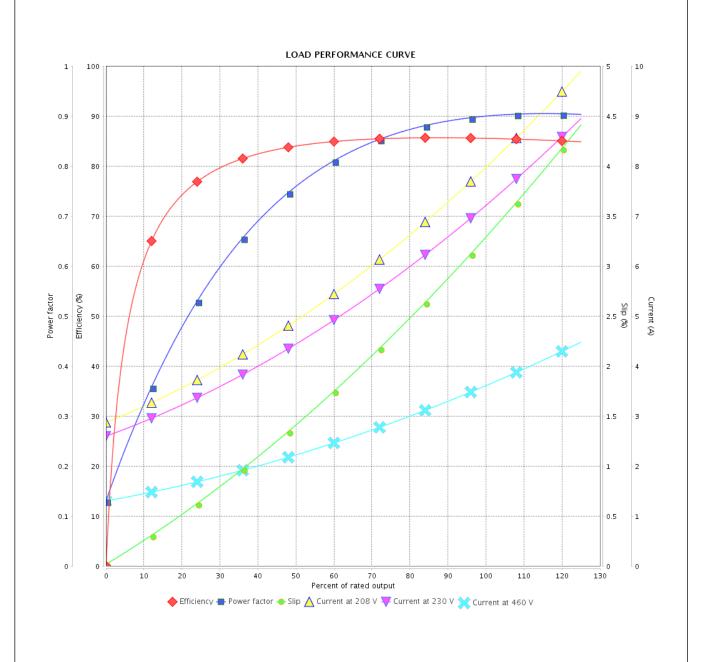


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12628877

Phase

Catalog #: 00336OT3E145TC-S



Performance	:	230/460 V 60 Hz 2P				
Rated current	: 7.18/3.59 A Moment of inertia (J)		Moment of inertia (J) : 0.1279 sq.ft.lb		lb	
LRC	:	8.0	Duty cycle	;	: Cont.(S1)	
Rated torque	:	4.53 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	229 %	Service fa	ctor	:	
Breakdown torque	akdown torque : 300 % Temperature rise		ıre rise	: 80 K		
Rated speed		: 3480 rpm Design		: B		
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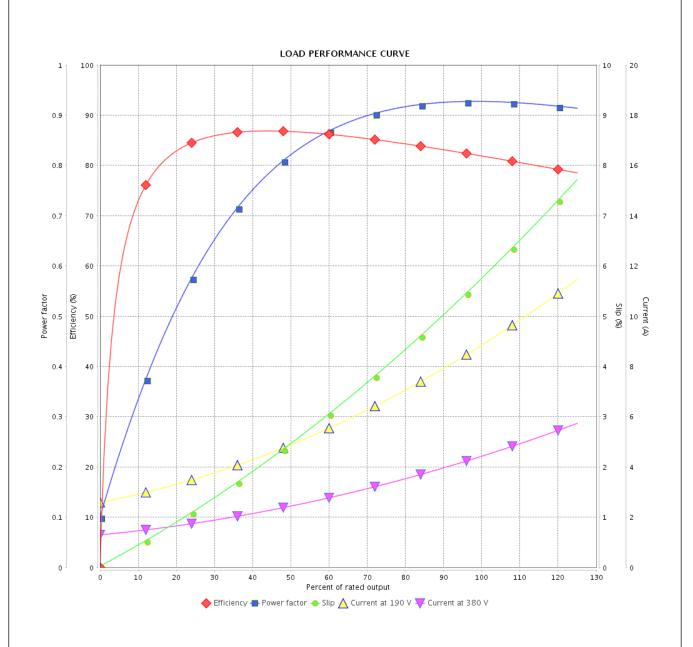
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Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 12628877

Catalog #: 00336OT3E145TC-S



Performance	: 190/380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 8.78/4.39 A : 6.1 : 5.58 ft.lb : 190 % : 229 % : 2825 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1279 sq.ft. : Cont.(S1) : F : 1.00 : 105 K : B	lb
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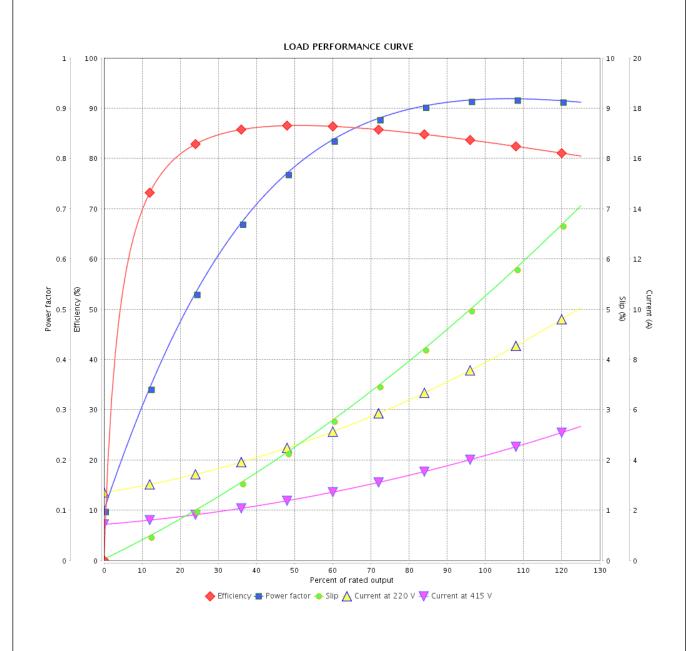
Customer

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Phase

Catalog #: 00336OT3E145TC-S

12628877



Performance	: 220/415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.83/4.15 A : 6.8 : 5.55 ft.lb : 220 % : 250 % : 2840 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class	: 0.1279 sq.ft. : Cont.(S1) : F : 1.00 : 105 K : B	lb
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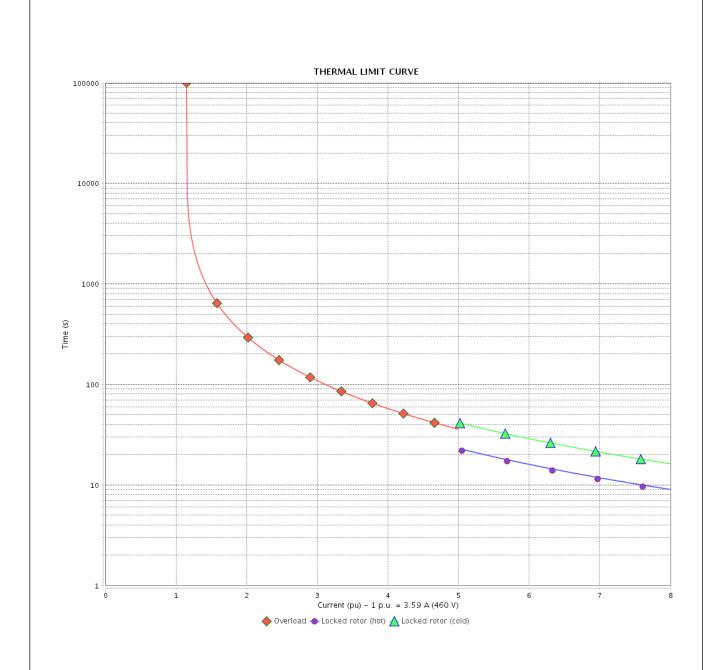


Customer	:				
Product line	: NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	12628877 00336OT3E1	45TC-S
	: 230/460 V 60 Hz 2P				
LRC Rated torque	: 7.18/3.59 A : 8.0 : 4.53 ft.lb	Duty cycle Insulation	class	: 0.1279 sq.ft.l : Cont.(S1) : F	b
Breakdown torque	: 229 % : 300 % : 3480 rpm	Service far Temperatu Design		: : 80 K : 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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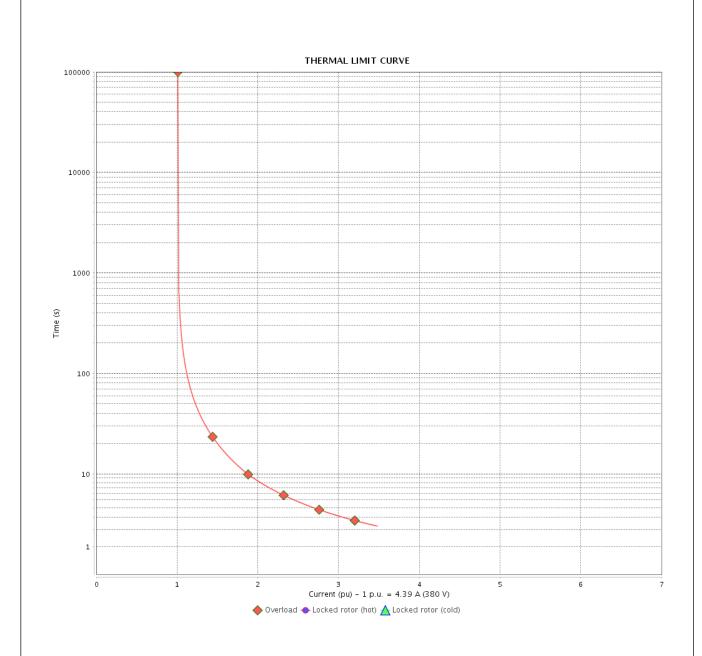


Customer	:				
Product line	: NEMA Premium Efficiend Phase		Product code : Catalog # :	12628877 00336OT3E	145TC-S
Performance	: 190/380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque	: 8.78/4.39 A : 6.1 : 5.58 ft.lb : 190 %	Moment of Duty cycle Insulation Service fa	class	: 0.1279 sq.ft. : Cont.(S1) : F : 1.00	lb
Breakdown torque Rated speed	: 229 % : 2825 rpm	Temperati Design		: 105 K : B	
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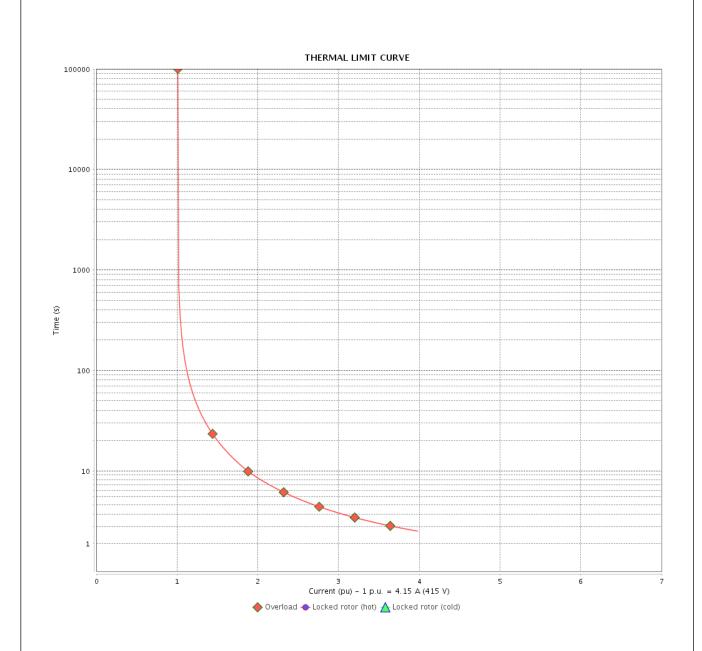


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Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	12628877	
				Catalog # :	00336OT3E1	I45TC-S
Performance		: 220/415 V 50 Hz 2P				
Rated current		: 7.83/4.15 A	Moment of	of inertia (J)	: 0.1279 sq.ft.l	b
LRC Rated torque		: 6.8 : 5.55 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord		: 220 %	Service fa		. r : 1.00	
Breakdown torqu	ie :	: 250 %	Temperat		: 105 K	
Rated speed		: 2840 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



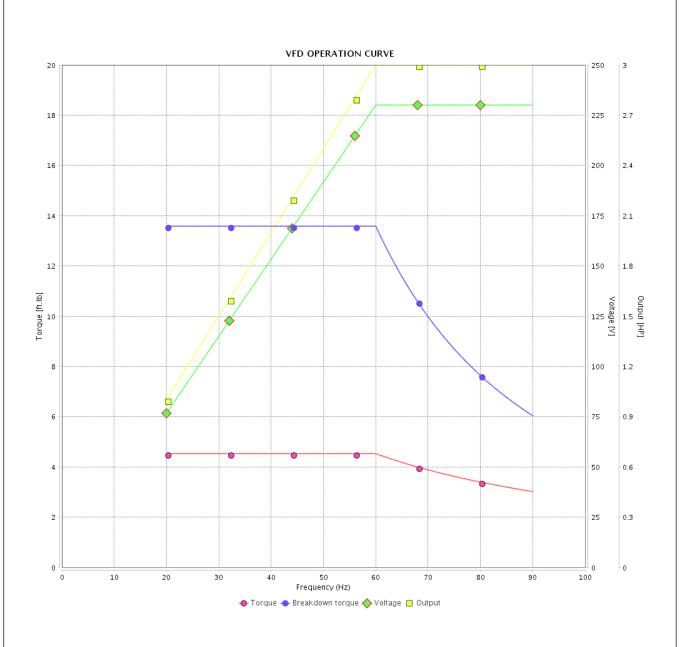
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12628877

Catalog #: 00336OT3E145TC-S

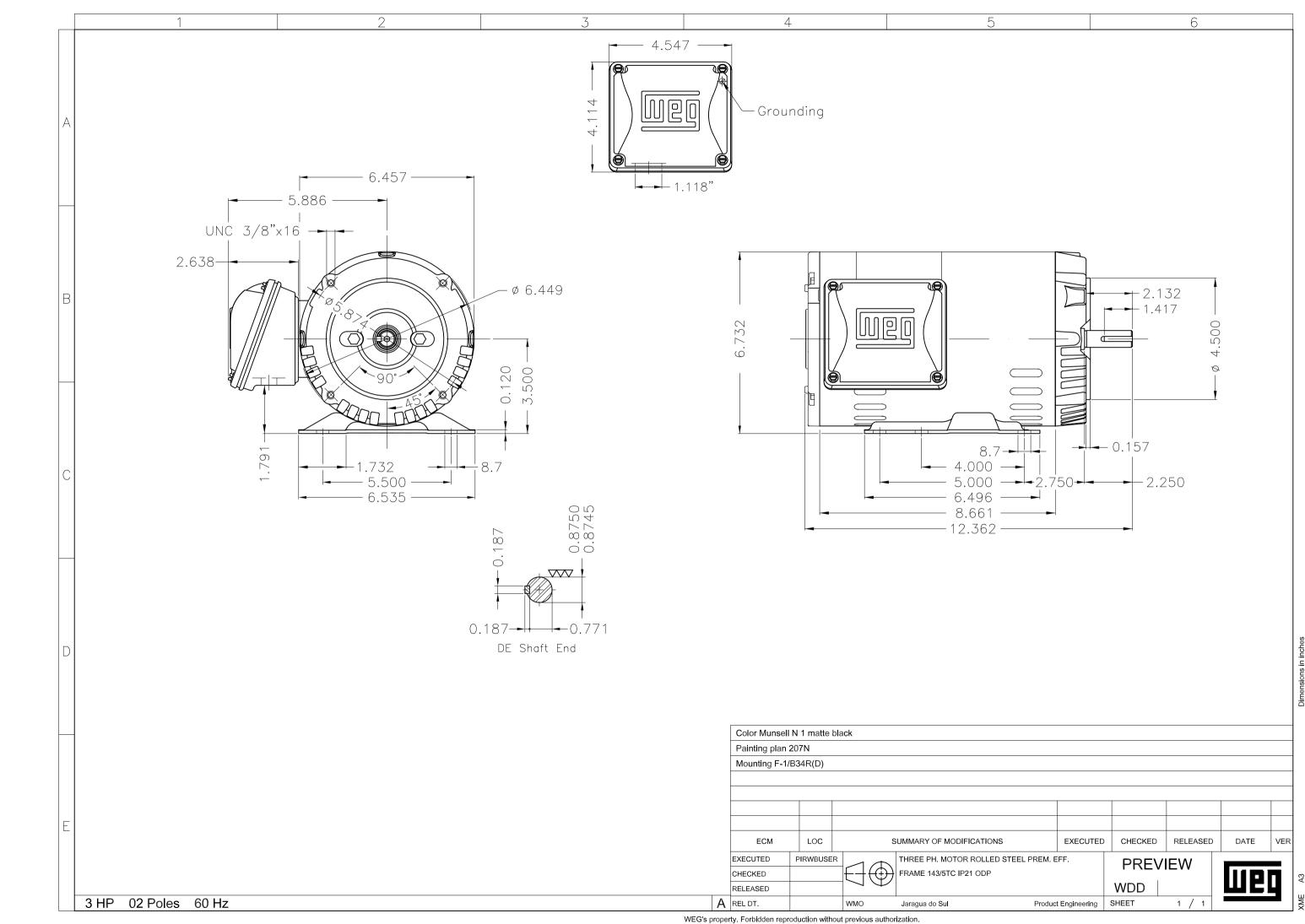


Performance		: 230/460 V 60 Hz 2F	D			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	jue ie	: 7.18/3.59 A : 8.0 : 4.53 ft.lb : 229 % : 300 % : 3480 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1279 sq.ft : Cont.(S1) : F : : 80 K : B	.lb
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Energy Verifi

MODEL 003360T3E145TC-S 9MAR2022

8 4 143/5TC CONT

1000 m.a.s.l

F AT 80K

7.18/3.59 3.26/4.13

230/460 1.15 0.90

> CODE DES SABLE @ 208V 7.94A

2°04 900

NSC

ZPM 3FA 냃 쌆

> 3.0HP .78-7.56/4.39-4.01A LTERNATE RATING:

SF1.00 INC. 2

IEC 60034-1

SF1.00

190-220/380-415V

85.5%

NOM EFF 2825RPM

50 Hz

EFF 81.8%

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 3:1 CT 8203-ZZ 9 ODE

8205-ZZ

2

MOBIL POLYREX EM

5

T2-WHT

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

T8-RED F6-GRY T4-YEL

T9-BRK RED



WARNING: Motor must be grounded in accordance with local

shocks. Disconnect power source before servicing unit. AVERTISSEMENT: Le moteur doit être mis à la terre ind national electrical codes to prevent serious electrical

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

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