### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12751147

Catalog #: 00736OT3E184TC-S

Frame : 182/4TC Cooling method : IC01 - ODP

Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

Ambient tempera	ature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude		: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 80.4 lb
Design		: B	Moment of inertia (J)	: 0.1818 sq.ft.lb
Output [HP]		7.5	7.5	7.5
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		17.3/8.67	21.4/10.7	19.2/10.2
L. R. Amperes [A]		128/64.2	120/59.9	121/64.3
LRC [A]		7.4x(Code H)	5.6x(Code F)	6.3x(Code G)
No load current [A	]	6.43/3.22	6.33/3.17	6.59/3.49
Rated speed [RPN	<b>/</b> 1]	3500	2865	2880
Slip [%]		2.78	4.50	4.00
Rated torque [ft.lb]		11.3	13.7	13.7
Locked rotor torqu	e [%]	180	150	170
Breakdown torque	[%]	290	210	240
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	105 K
Locked rotor time		18s (cold) 10s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>		65.0 dB(A)	63.0 dB(A)	63.0 dB(A)
	25%	88.3	91.3	90.6
Efficiency (%)	50%	88.5	88.9	88.8
Efficiency (70)	75%	88.5	87.4	87.9
	100%	88.5	84.7	85.7
	25%	0.49	0.55	0.51
Power Factor	50%	0.76	0.82	0.79
I OWEI Facioi	75%	0.85	0.89	0.87
	100%	0.90	0.92	0.91

Non drive end Foundation loads Drive end

Bearing type 6206 ZZ 6205 ZZ Max. traction : 169 lb Sealing Without Without Max. compression : 250 lb

Bearing Seal Bearing Seal

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 19.2A SF 1.00 SFA 19.2A

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



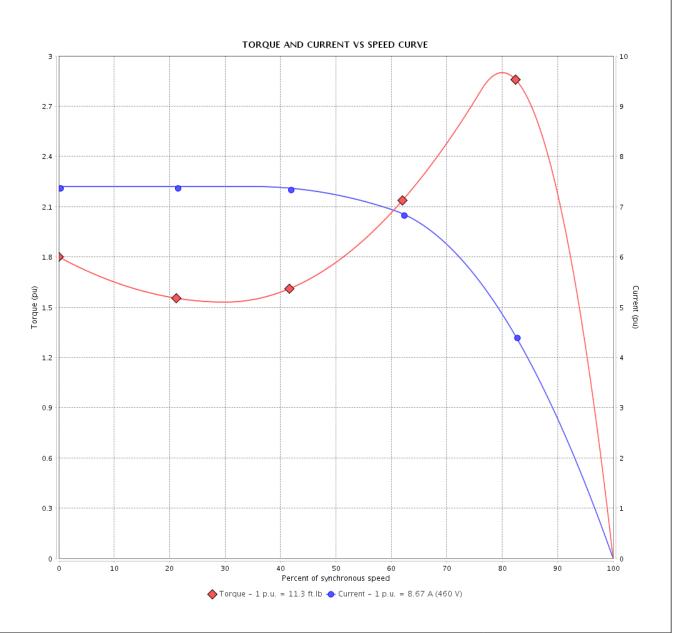
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12751147

Catalog #: 00736OT3E184TC-S



Performance : 230/460 V 60 Hz 2P Rated current : 17.3/8.67 A Moment of inertia (J) : 0.1818 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : F : 11.3 ft.lb Insulation class Rated torque Service factor : 1.15 Locked rotor torque : 180 % Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 3500 rpm Design : B

Locked rotor time : 18s (cold) 10s (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: 12751147 Catalog #: 00736OT3E184TC-S TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 13.7 ft.lb ◆ Current - 1 p.u. = 10.7 A (380 V) Performance : 190/380 V 50 Hz 2P Rated current : 21.4/10.7 A Moment of inertia (J) : 0.1818 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 13.7 ft.lb Locked rotor torque : 150 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 2865 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



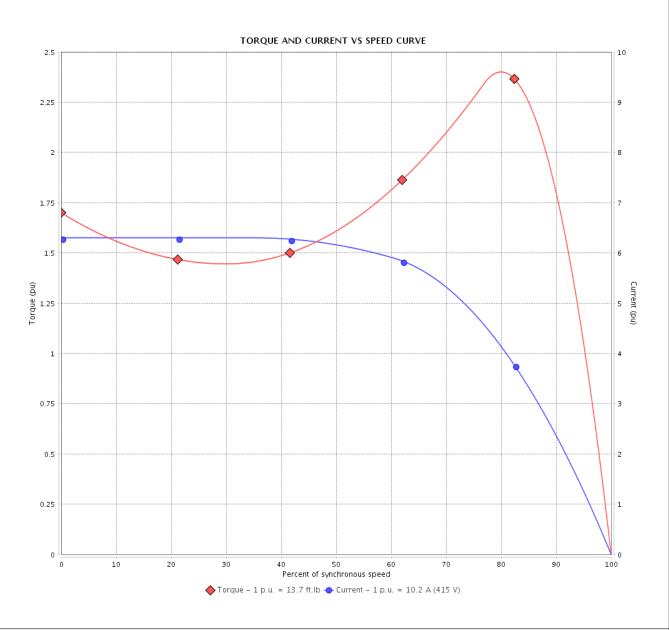
Customer :

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 12751147

Catalog #: 00736OT3E184TC-S



Performance	: 220/415 V 50 Hz 2P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19.2/10.2 A : 6.3 : 13.7 ft.lb : 170 % : 240 % : 2880 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1818 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B
Looked reter time	: Oa (aald) Oa (bat)		

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

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## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage

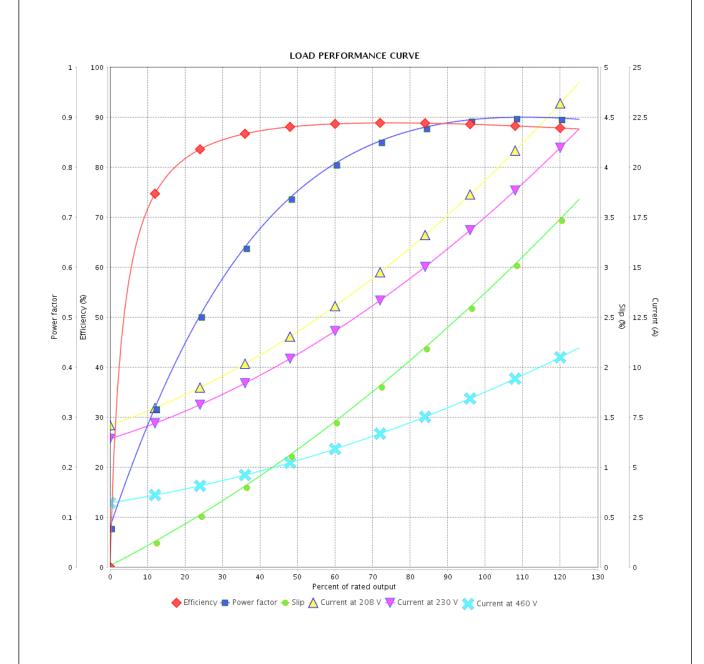


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12751147

Phase

Catalog # : 00736OT3E184TC-S



Performance	:	230/460 V 60 Hz 2P					
Rated current	ated current : 17.3/8.67 A Moment of inertia (J)		Moment of inertia (J) : 0.1818 sq.ft.lb		.lb		
LRC	:	7.4	Duty cycle	}	: Cont.(S1)	•	
Rated torque	:	11.3 ft.lb	Insulation	class	: F		
Locked rotor torque	:	180 %	Service fa	ctor	: 1.15		
Breakdown torque	::	290 %	Temperature rise		: 80 K		
Rated speed	:	: 3500 rpm Design			: B		
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### LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer :

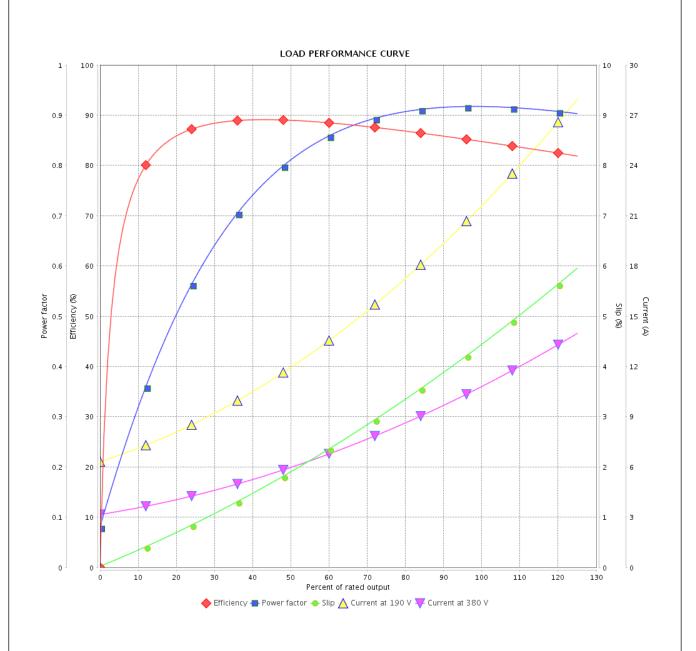
Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 12751147

Phase

Catalog #: 00736OT3E184TC-S



Performance : 190/380 V 50 Hz 2P : 21.4/10.7 A Rated current Moment of inertia (J) : 0.1818 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.6 Insulation class Rated torque : 13.7 ft.lb : F Locked rotor torque : 150 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 2865 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Page Revision

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## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage

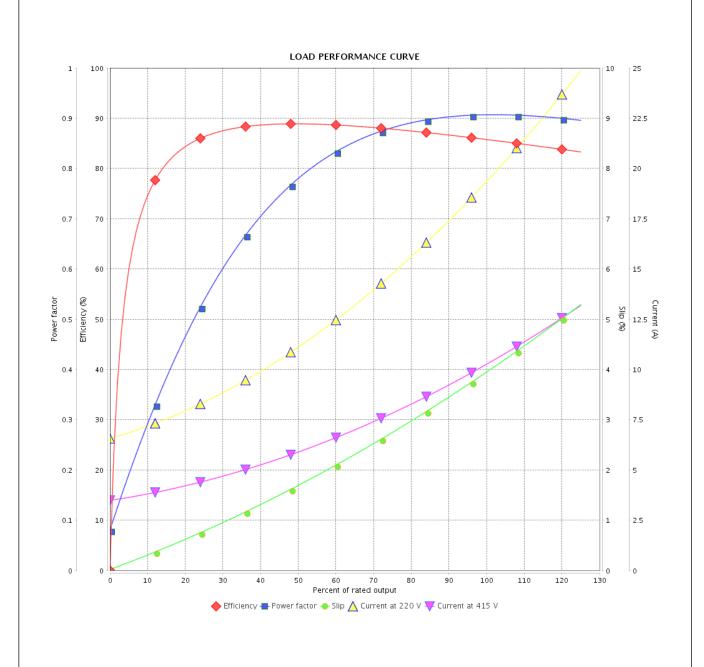


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12751147

Phase

Catalog #: 00736OT3E184TC-S



Performance	: 2:	20/415 V 50 Hz 2P				
Rated current	: 1	9.2/10.2 A	Moment of	f inertia (J)	: 0.1818 sq.ft	.lb
LRC	: 6	.3	Duty cycle	•	: Cont.(S1)	
Rated torque	: 1:	3.7 ft.lb	Insulation	class	: F	
Locked rotor torg	jue : 1	70 %	Service fa	ctor	: 1.00	
Breakdown torqu	•	40 %	Temperati	ure rise	: 105 K	
Rated speed		880 rpm	Design	Design		
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### Three Phase Induction Motor - Squirrel Cage

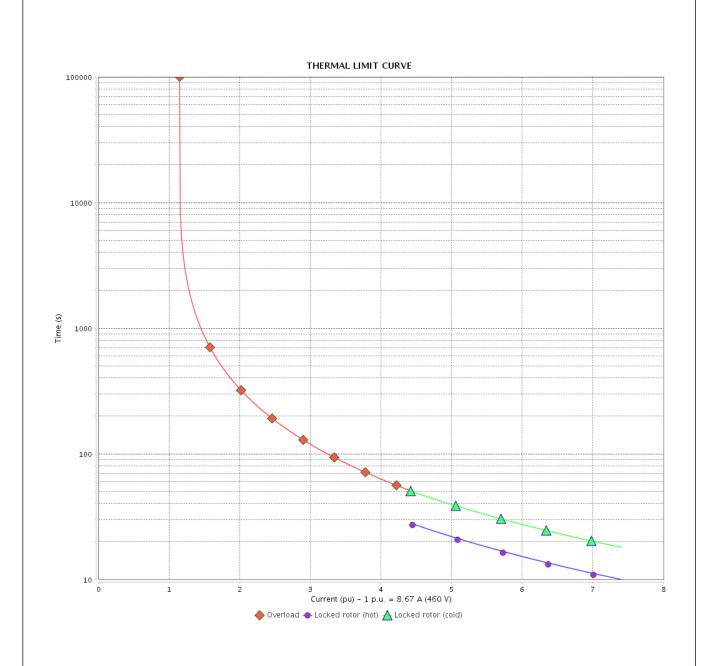


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12751147	
	P	hase		Catalog # :	00736OT3E	184TC-S
Performance	: 23	30/460 V 60 Hz 2P				
Rated current		7.3/8.67 A	Moment o	f inertia (J)	: 0.1818 sq.ft.l	b
LRC Rated torque	: 7. : 11	4 1.3 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 18	30 %	Service fa	ctor	: 1.15	
Breakdown torque Rated speed		90 % 500 rpm	Temperatu Design	ıre rise	: 80 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

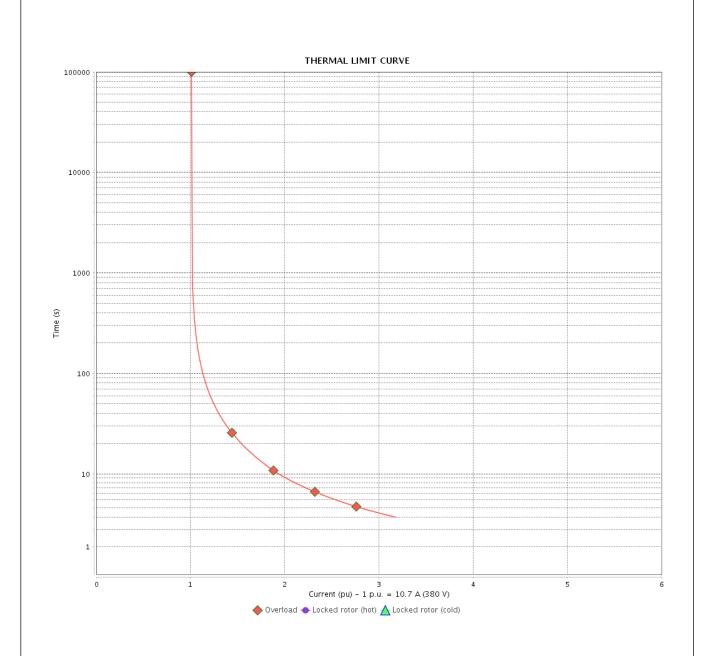


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	12751147	
				Catalog # :	00736OT3E1	84TC-S
Performance		: 190/380 V 50 Hz 2P				
Rated current		: 21.4/10.7 A	Moment o	of inertia (J)	: 0.1818 sq.ft.l	b
LRC	:	: 5.6	Duty cycle	е	: Cont.(S1)	-
Rated torque Locked rotor tord		: 13.7 ft.lb : 150 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue :	: 210 %	Temperat		: 105 K	
Rated speed		: 2865 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Comment		Dowforms	Chaglis	Dota
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

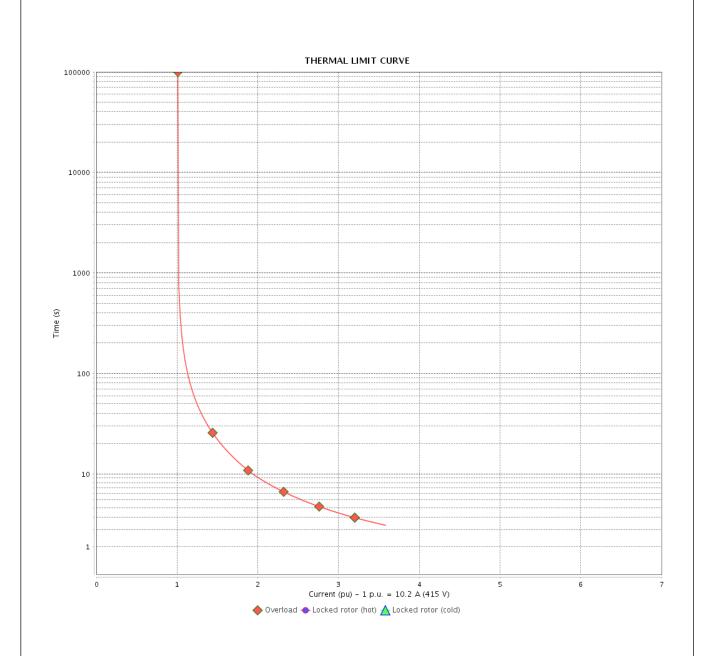


Customer	:		
Product line	: NEMA Premium Efficiency Phase	y Three- Product code :  Catalog # :	12751147 00736OT3E184TC-S
Performance Rated current	: 220/415 V 50 Hz 2P : 19.2/10.2 A	Moment of inertia (J)	: 0.1818 sq.ft.lb
LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.3 : 13.7 ft.lb : 170 % : 240 % : 2880 rpm	Duty cycle Insulation class Service factor Temperature rise Design	: Cont.(S1) : F : 1.00 : 105 K : 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



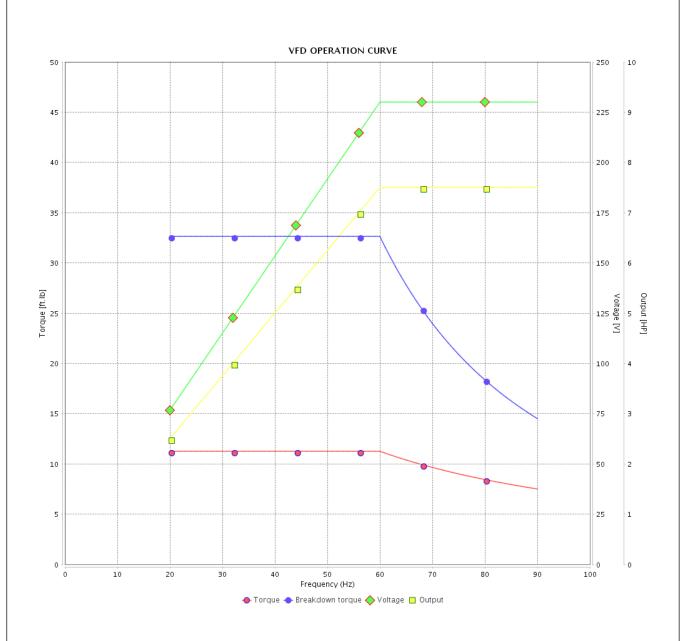
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12751147

Catalog #: 00736OT3E184TC-S

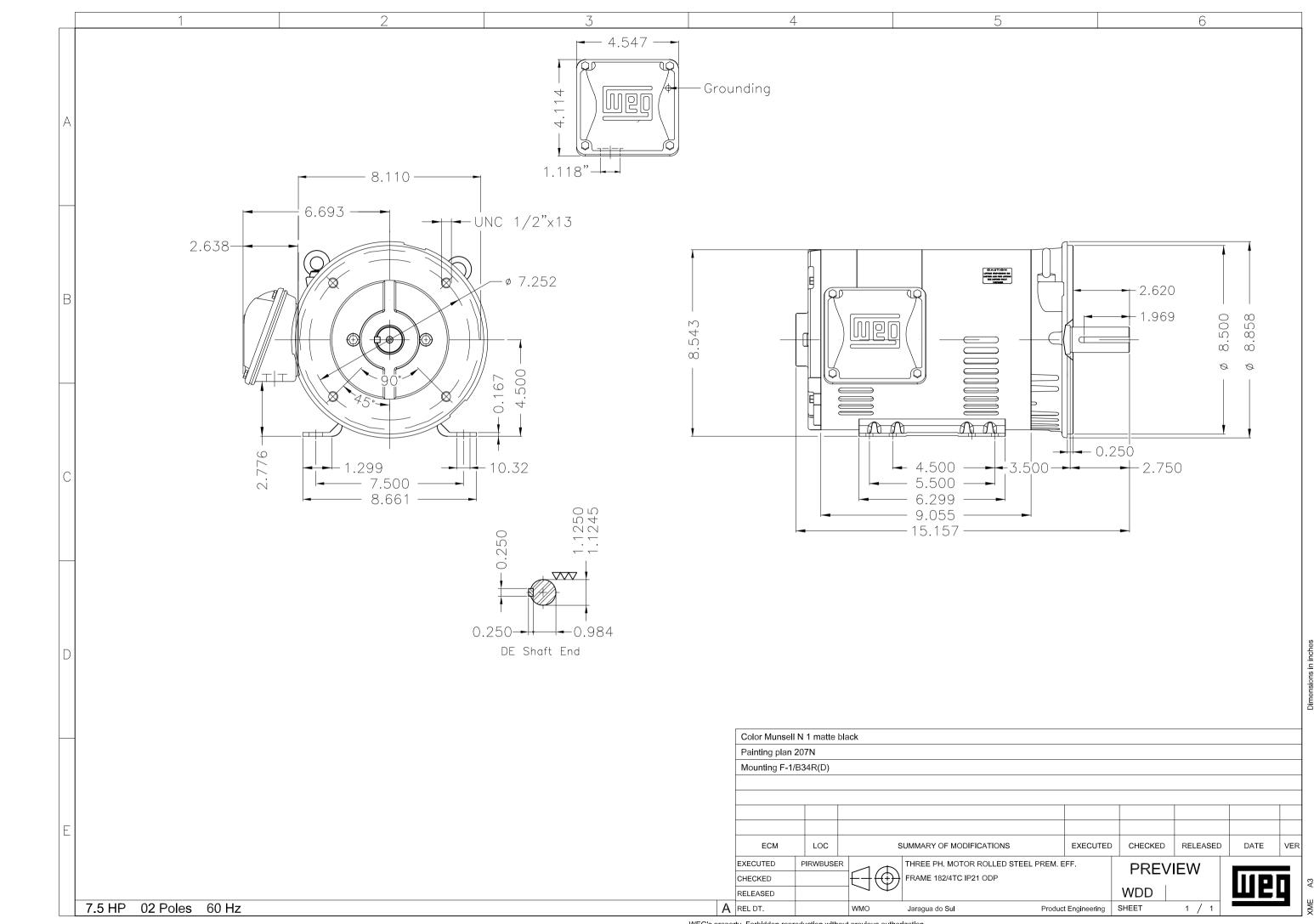


D	- 000/400 V/ 00 H= 0D							
Performance	: 230/460 V 60 Hz 2P							
Rated current	: 17.3/8.67 A	Moment of inertia (J)		: 0.1818 sq.ft.lb				
LRC	: 7.4	Duty cycle		: Cont.(S1)				
Rated torque	: 11.3 ft.lb	Insulation class Service factor Temperature rise		: F : 1.15 : 80 K				
Locked rotor torque	: 180 %							
Breakdown torque	: 290 %							
Rated speed	: 3500 rpm	Design		: B				
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S/N 2P007402NPW01 W01.TOOIC0X0N

CC029A

12751147

MADE IN MÉXICO

8 4 182/4TC 5FEB2022

DES 1000 m.a.s.l F AT 80K CONT 2°04 900

NSC

19.9/9.97

3FA 냃

.15

17.3/8.67 230/460

> CODE SABLE @ 208V 19.2A

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 3:1 CT NOM EFF 2865RPM ZPM 쌆 50 Hz 8205-ZZ 7.5HP

21.4-18.6/10.7-9.84A

ALTERNATE RATING:

SF1.00 INC. 2

IEC 60034-1

SF1.00

190-220/380-415V

88.5%

**EFF 84.7%** 

ODE

8206-ZZ

삠

MOBIL POLYREX EM

T6

r3-org T7-PNK T9-BRK T5-BLK 11-BLU

T6-GRY T8-RED RED

T2-WHT

T4-YEL





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