#### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12751142

Phase

Catalog #: 00536OT3E182T-S Frame : 182/4T Cooling method : IC01 - ODP Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 56.4 lb Moment of inertia (J) Design : B : 0.1386 sq.ft.lb Output [HP] 5 5 5 Poles 2 2 2 50 Frequency [Hz] 60 50 Rated voltage [V] 230/460 220/415 190/380 Rated current [A] 12.2/6.10 14.7/7.37 13.2/7.01 L. R. Amperes [A] 92.7/46.4 85.5/42.7 86.0/45.6 LRC [A] 7.6x(Code J) 5.8x(Code G) 6.5x(Code H) No load current [A] 5.15/2.58 5.05/2.53 5.33/2.83 Rated speed [RPM] 3510 2885 2900 Slip [%] 2.50 3.83 3.33 Rated torque [ft.lb] 7.48 9.10 9.05 Locked rotor torque [%] 190 150 170 Breakdown torque [%] 300 220 250 Service factor 1.00 1.00 1.15 Temperature rise 80 K 105 K 80 K 0s (cold) 0s (hot) Locked rotor time 21s (cold) 12s (hot) 0s (cold) 0s (hot) Noise level<sup>2</sup> 65.0 dB(A) 63.0 dB(A) 63.0 dB(A) 25% 85.2 88.3 87.1 50% 85.5 86.5 86.0 Efficiency (%) 75% 86.5 86.0 86.2 100% 86.5 83.8 84.7 25% 0.45 0.47 0.51 50% 0.73 0.79 0.75 Power Factor 75% 0.83 0.88 0.85 100% 0.88 0.90 0.91

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

Bearing type : 6206 ZZ 6205 ZZ Max. traction : 116 lb Sealing : Without Without Max. compression : 173 lb

Bearing Seal Bearing Seal

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

Notes

USABLE @208V 13.5A SF 1.00 SFA 13.5A

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



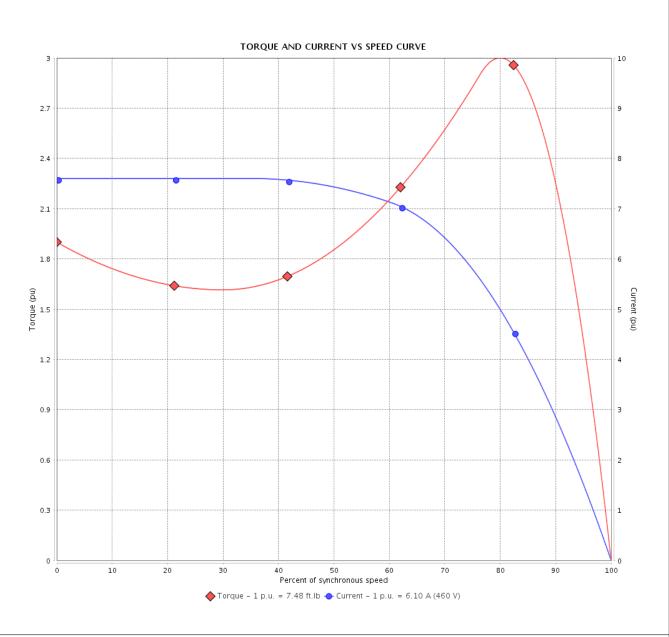
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12751142

Catalog #: 00536OT3E182T-S



Performance : 230/460 V 60 Hz 2P Rated current : 12.2/6.10 A Moment of inertia (J) : 0.1386 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : F : 7.48 ft.lb Insulation class Rated torque Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3510 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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### TORQUE AND CURRENT VS SPEED CURVE

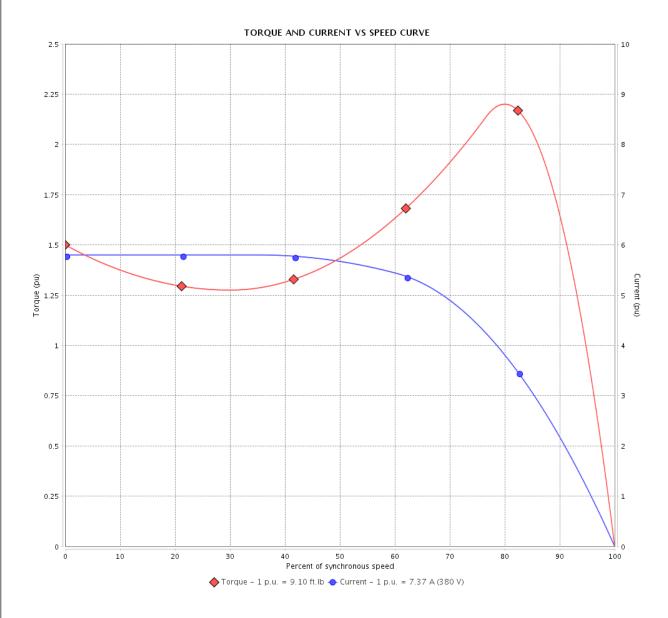
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12751142

Catalog #: 00536OT3E182T-S



Performance : 190/380 V 50 Hz 2P Rated current : 14.7/7.37 A Moment of inertia (J) : 0.1386 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 9.10 ft.lb Locked rotor torque : 150 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 2885 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



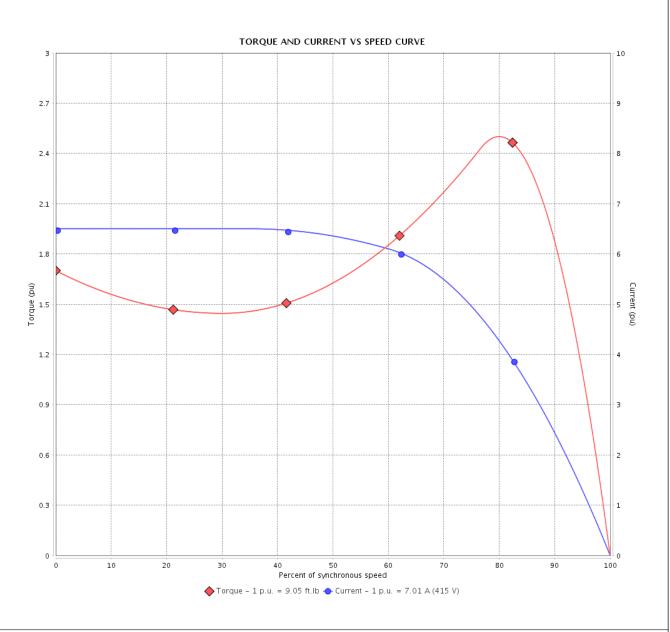
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12751142

Catalog #: 00536OT3E182T-S



Performance : 220/415 V 50 Hz 2P Rated current : 13.2/7.01 A Moment of inertia (J) : 0.1386 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 9.05 ft.lb Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B

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

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## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage

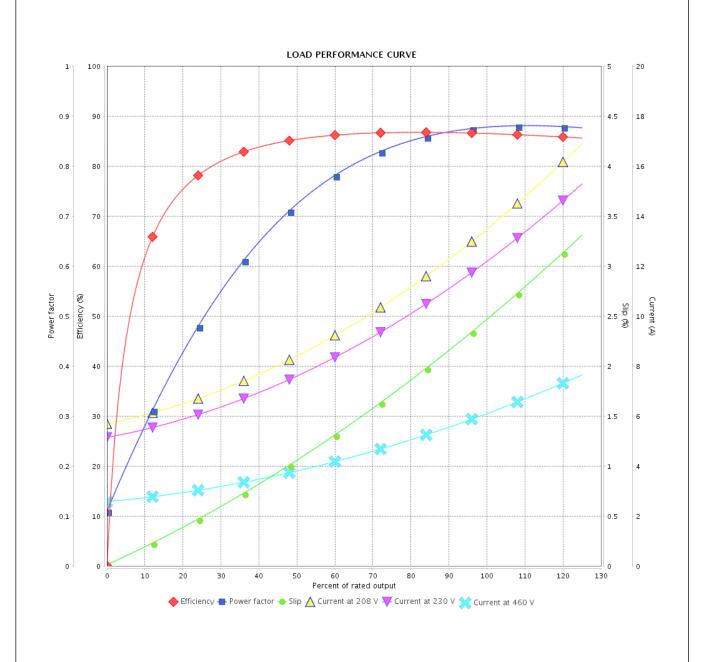


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12751142

Phase

Catalog #: 00536OT3E182T-S



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Performance	:	230/460 V 60 Hz 2P				
Rated current	:	12.2/6.10 A	Moment o	f inertia (J)	: 0.1386 sq.ft.	.lb
LRC	:	7.6	Duty cycle	)	: Cont.(S1)	
Rated torque	:	7.48 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	190 %	Service factor		: 1.15	
Breakdown torque		300 %	Temperature rise		: 80 K	
Rated speed	:	3510 rpm	Design		: B	
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## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage

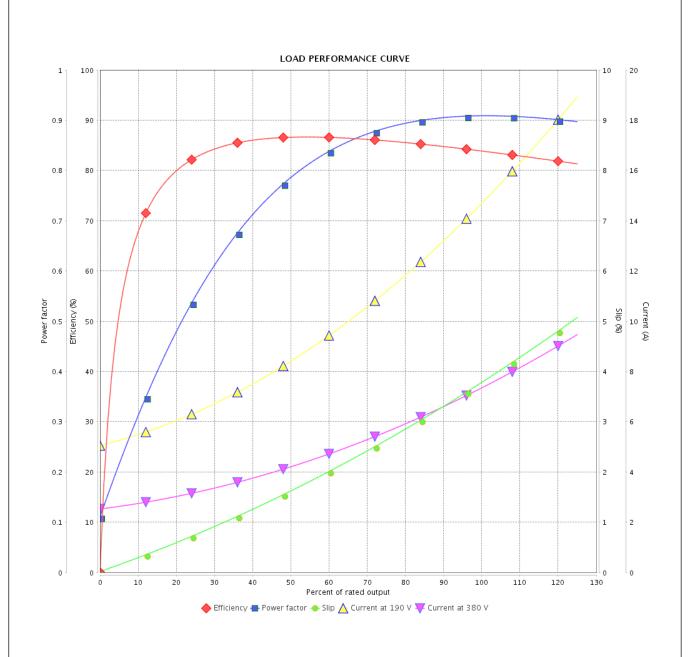


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12751142

Phase

Catalog #: 00536OT3E182T-S



Performance	: 190/380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.7/7.37 A : 5.8 : 9.10 ft.lb : 150 % : 220 % : 2885 rpm	Moment of ine Duty cycle Insulation clas Service factor Temperature r	SS	: 0.1386 sq.ft. : Cont.(S1) : F : 1.00 : 105 K : B	lb
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## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage

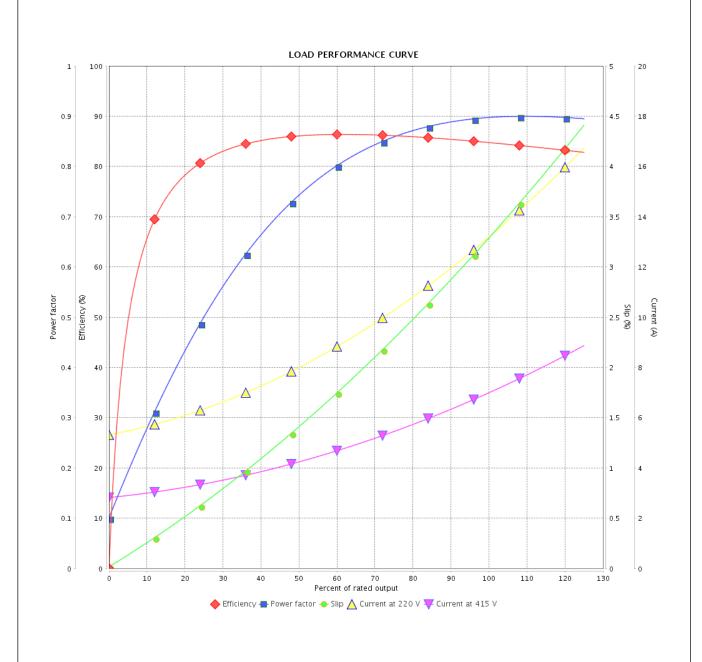


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12751142

Phase

Catalog #: 00536OT3E182T-S



Performance	:	: 220/415 V 50 Hz 2P				
Rated current	: 13.2/7.01 A Mon		Moment o	Moment of inertia (J)		lb
LRC	:	6.5	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	9.05 ft.lb	Insulation	class	: F	
Locked rotor torque	:	170 %	Service fa	ctor	: 1.00	
Breakdown torque		250 %	Temperature rise		: 80 K	
Rated speed	:	2900 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage

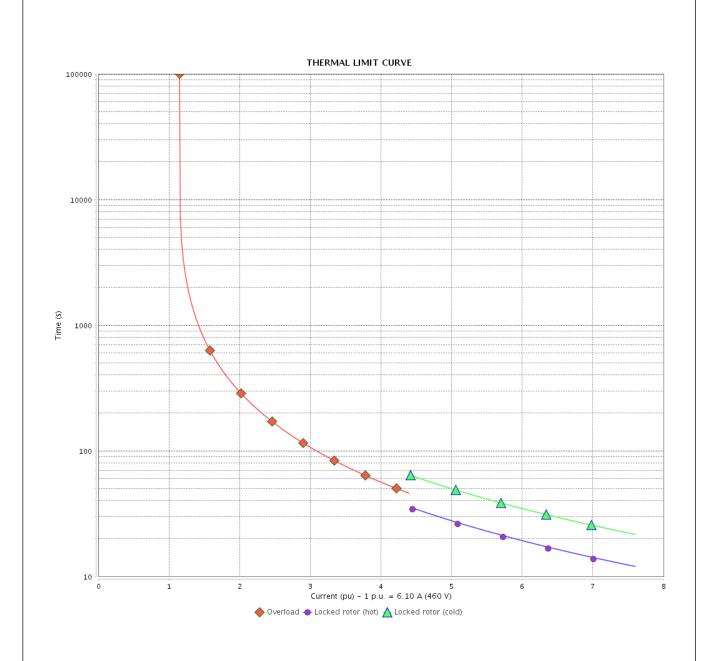


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	12751142	
				Catalog # :	00536OT3E	182T-S
Performance		: 230/460 V 60 Hz 2P				
Rated current		: 12.2/6.10 A	Moment of	of inertia (J)	: 0.1386 sq.ft.l	b
LRC		: 7.6	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor torc		: 7.48 ft.lb : 190 %	Insulation Service fa		: F : 1.15	
Breakdown torqu		: 300 %	Temperat		: 80 K	
Rated speed		: 3510 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					_
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

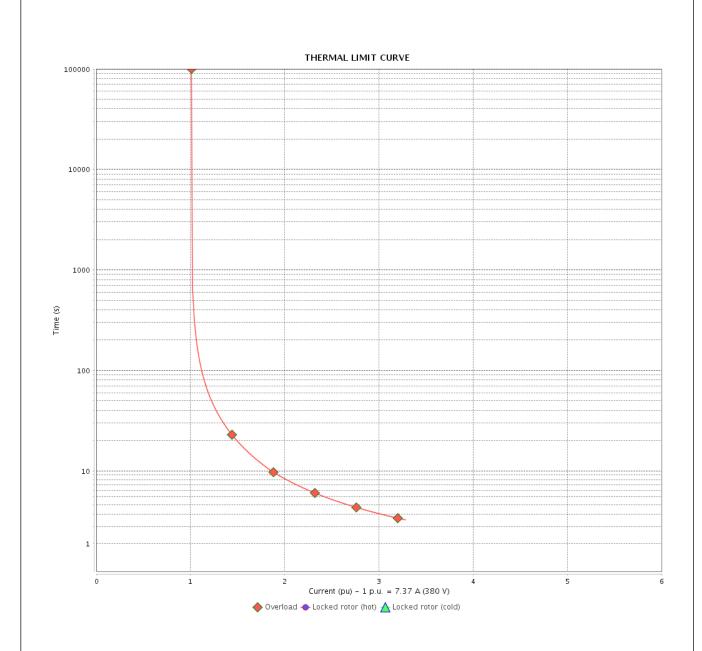


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code : Catalog # :	12751142 00536OT3E <sup>-</sup>	182T-S
Performance		90/380 V 50 Hz 2P				
Rated current LRC	: 5.		Duty cycle	f inertia (J)	: 0.1386 sq.ft.l : Cont.(S1)	b
Rated torque	: 9.	.10 ft.lb	Insulation	class	: F	
Locked rotor torque		50 %	Service fa		: 1.00	
Breakdown torque Rated speed		20 % 885 rpm	Temperatu Design	ire 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

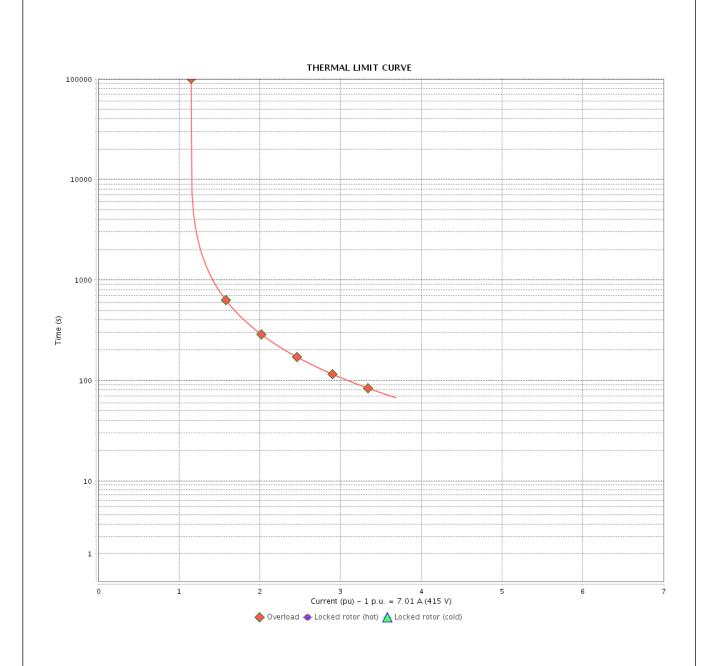


Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	12751142	
	Phase		Catalog # :	00536OT3E1	182T-S
Performance	: 220/415 V 50 Hz 2P				
Rated current LRC	: 13.2/7.01 A : 6.5	Moment o	f inertia (J)	: 0.1386 sq.ft.l : Cont.(S1)	b
Rated torque	: 9.05 ft.lb	Insulation	class	: F	
Locked rotor torque	: 170 %	Service fa		: 1.00	
Breakdown torque Rated speed	: 250 % : 2900 rpm	Temperatu Design	ure rise	: 80 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 :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

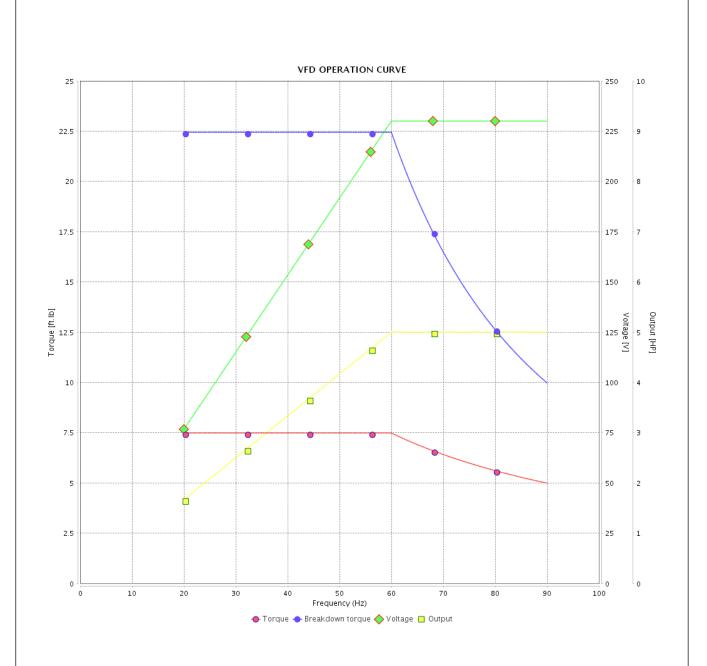
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12751142

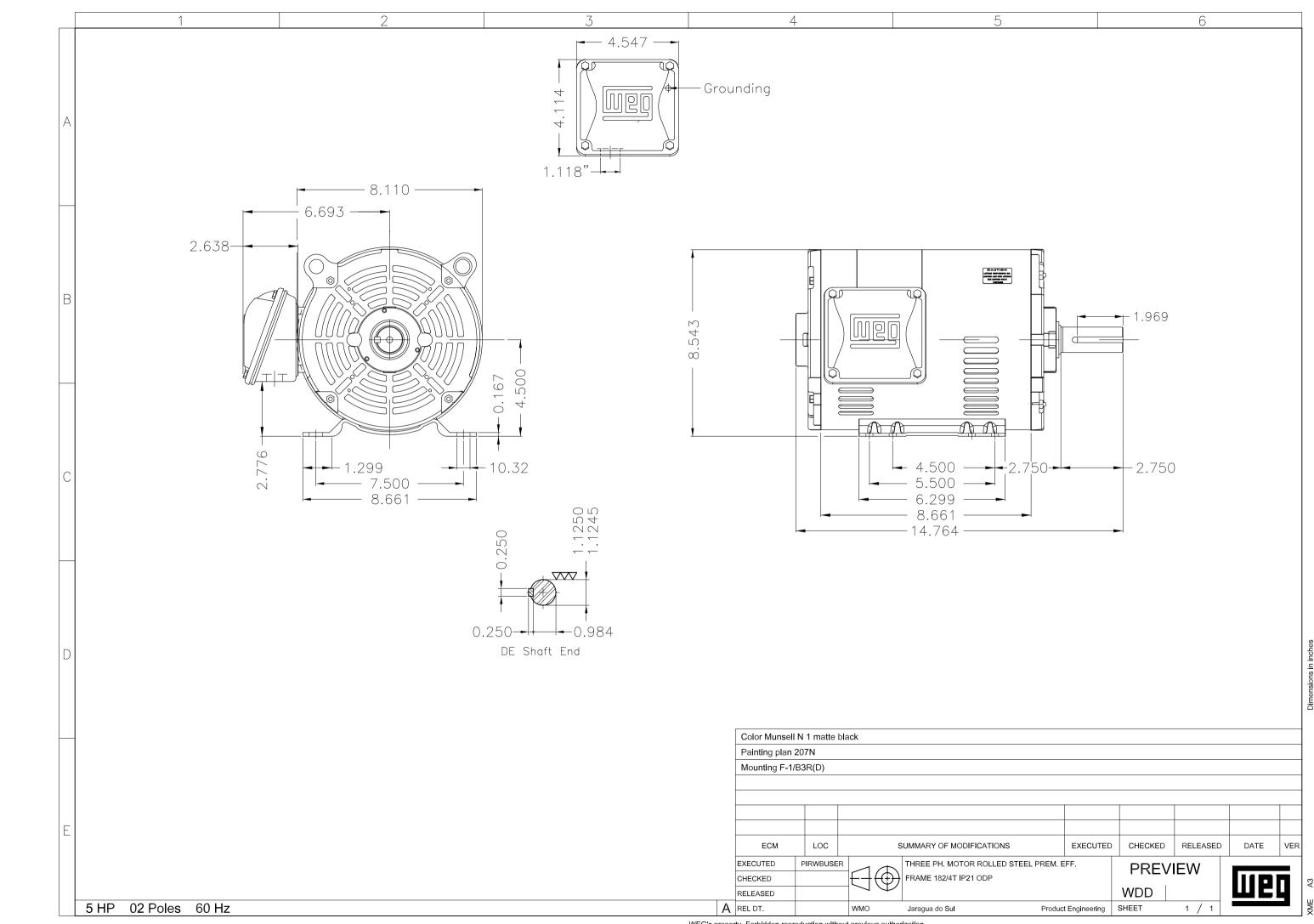
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Performance		: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ie	: 12.2/6.10 A : 7.6 : 7.48 ft.lb : 190 % : 300 % : 3510 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1386 sq.ft.l : Cont.(S1) : F : 1.15 : 80 K : B	b
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12751142

MADE IN MÉXICO

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1000 m.a.s.l CONT

12.2/6.10 14.0/7.01

> 3FA 냃 쌆

> > F AT 80K

SCL

2°04 900

230/460

CODE DES SABLE @ 208V 13.5A

NOM EFF 2885RPM ZPM 50 Hz 5.0HP

14.7-13.0/7.37-6.87A

LTERNATE RATING:

SF1.00 INC. 2

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 3:1 CT

8205-ZZ

ODE

8206-ZZ

삠

IEC 60034-1

SF1.00

190-220/380-415V

86.5%

3510 1.15

**EFF 83.8%** 

MOBIL POLYREX EM

T6

T6-GRY

T5-BLK 11-BLU

T2-WHT

T4-YEL

r3-org





AVERTISSEMENT: Le moteur doit être mis à la terre shocks. Disconnect power source before servicing unit. WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical

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

T7-PNK T9-BRK