## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Standard Efficiency Three-Phase Product code: 14797711

> Catalog #: .7518ES3E56C-S

: 56C Cooling method Frame : IC411 - TEFC Insulation class : F 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. weight3 : 23.9 lb

Protection degree : IP55 Moment of inertia (J) : 0.0648 sq.ft.lb

_				
Output [HP]		0.75	0.75	0.75
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		208-230/460	190/380	220/415
Rated current [A]		2.70-2.44/1.22	2.74/1.37	2.58/1.37
L. R. Amperes [A]		18.6-16.8/8.42	15.3/7.67	15.5/8.22
LRC [A]		6.9x(Code K)	5.6x(Code H)	6.0x(Code J)
No load current [A]	]	1.55-1.80/0.900	1.71/0.856	1.86/0.985
Rated speed [RPN	1]	1755	1440	1445
Slip [%]		2.50	4.00	3.67
Rated torque [ft.lb]		2.24	2.74	2.73
Locked rotor torque [%]		240	170	200
Breakdown torque [%]		300	229	260
Service factor			1.15	1.15
Temperature rise		80 K	80 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%	70.4	72.6	69.8
Efficiency (%)	50%	72.0	73.1	71.0
Efficiency (70)	75%	77.0	76.5	75.6
	100%	78.5	76.5	76.5
	25%	0.26	0.33	0.29
Power Factor	50%	0.48	0.58	0.53
FUWEI FAUIUI	75%	0.61	0.72	0.67
	100%	0.72	0.80	0.76

Non drive end Foundation loads **Drive** end

Bearing type 6203 ZZ 6202 ZZ Max. traction : 57 lb Sealing V'Ring Without Max. compression : 81 lb

Bearing Seal

Lubrication interval Lubricant amount

Mobil Polyrex EM Lubricant type

Notes

USABLE @208V SF 1.00

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

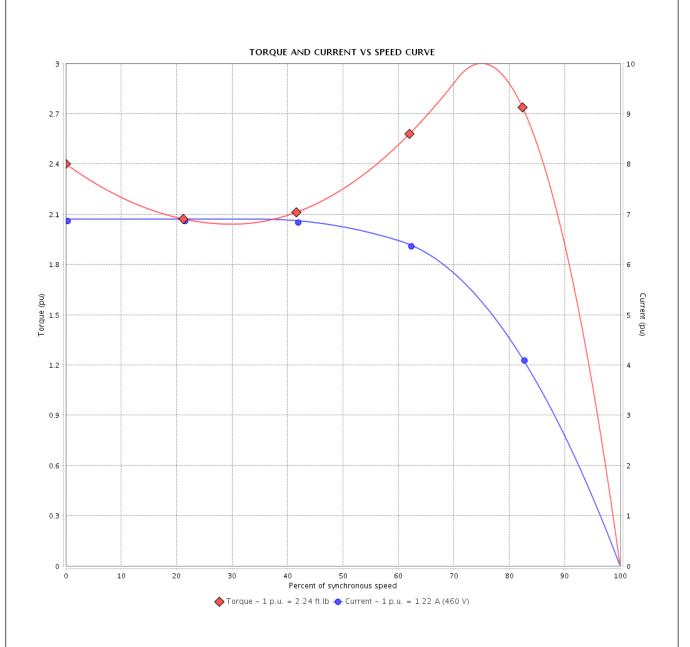
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 14797711

Catalog # : .7518ES3E56C-S



Performance : 208-230/460 V 60 Hz 4P

Rated current : 2.70-2.44/1.22 A | Moment of inertia (J) : 0.0648 sq.ft.lb

LRC : 6.9 Duty cycle : Cont.(S1)
Rated torque : 2.24 ft.lb Insulation class : F

Locked rotor torque : 240 % Service factor : Breakdown torque : 300 % Temperature rise : 80 K

Rated speed : 1755 rpm

 Locked rotor time
 : 30s (cold) 17s (hot)

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## TORQUE AND CURRENT VS SPEED CURVE

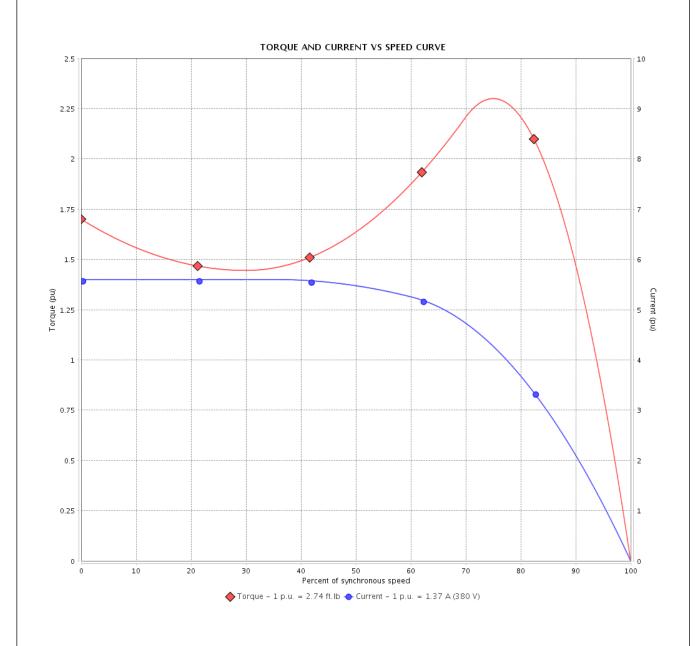
### Three Phase Induction Motor - Squirrel Cage



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Product line : Standard Efficiency Three-Phase Product code : 14797711

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Performance : 190/380 V 50 Hz 4P Rated current : 2.74/1.37 A Moment of inertia (J) : 0.0648 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) : 2.74 ft.lb Insulation class : F Rated torque : 170 % Locked rotor torque Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1440 rpm

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

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## TORQUE AND CURRENT VS SPEED CURVE

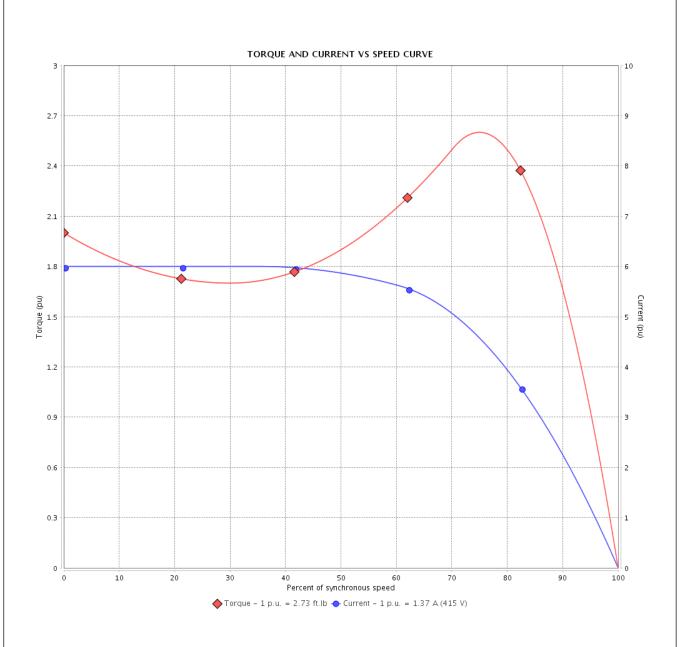
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Product line : Standard Efficiency Three-Phase Product code : 14797711

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Performance : 220/415 V 50 Hz 4P Rated current : 2.58/1.37 A Moment of inertia (J) : 0.0648 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.73 ft.lb Service factor Locked rotor torque : 200 % : 1.15

Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1445 rpm

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

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# LOAD PERFORMANCE CURVE

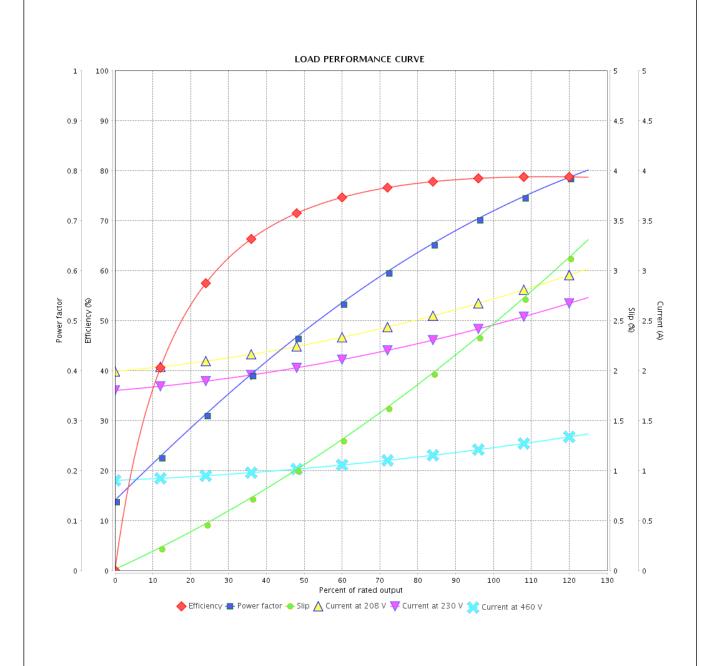
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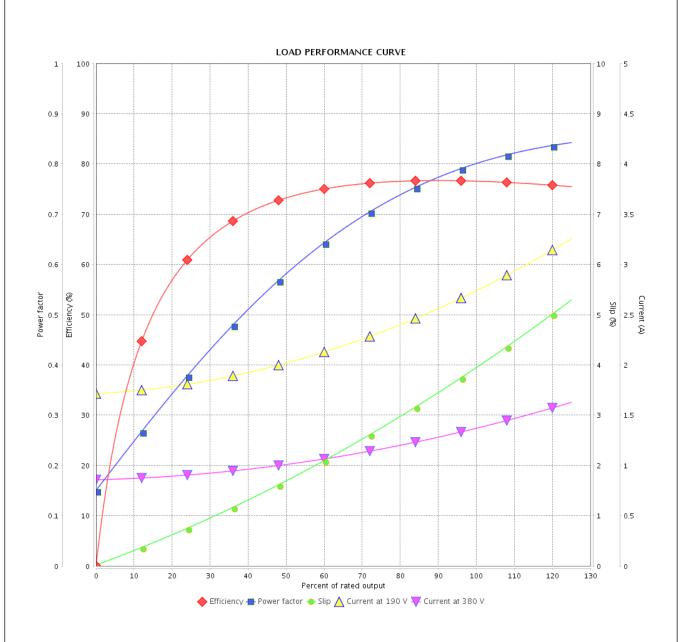
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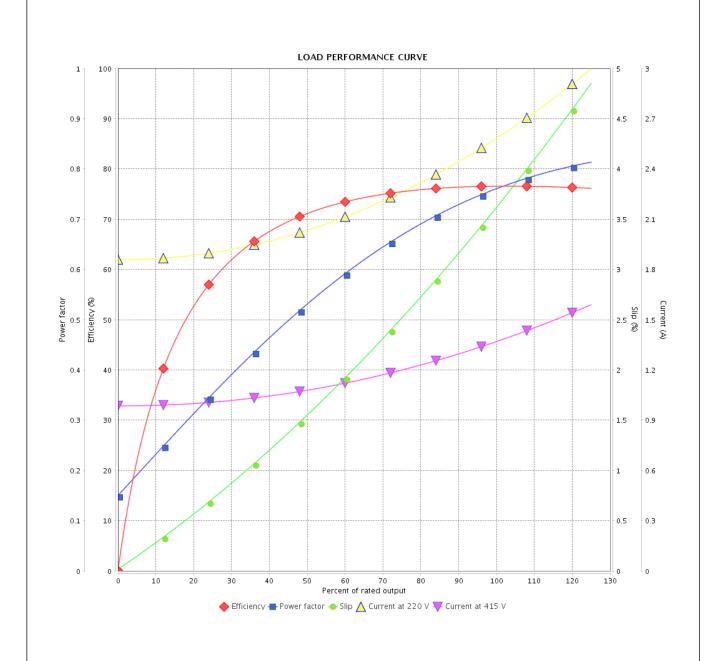
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## THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage

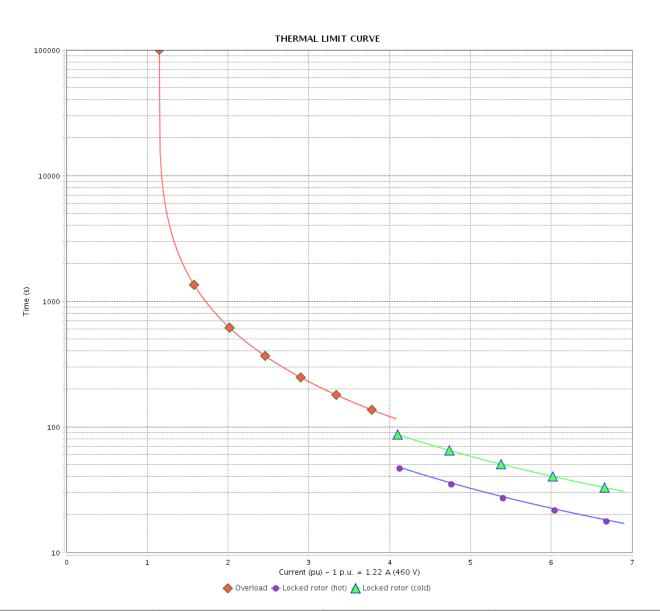


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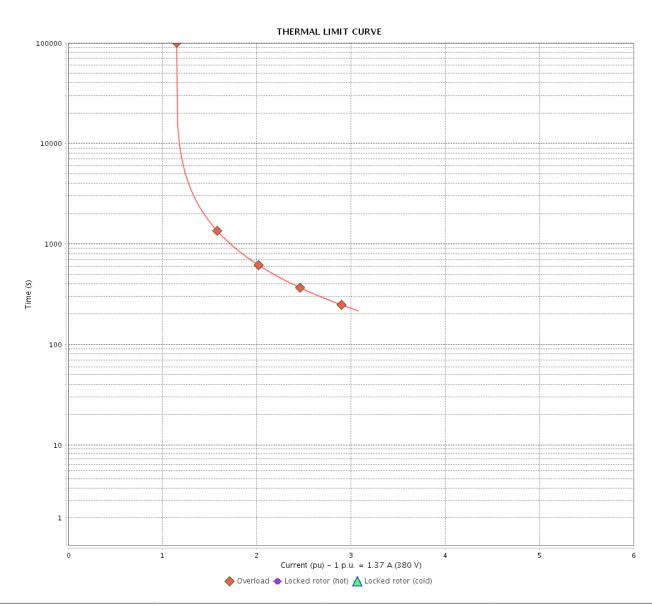
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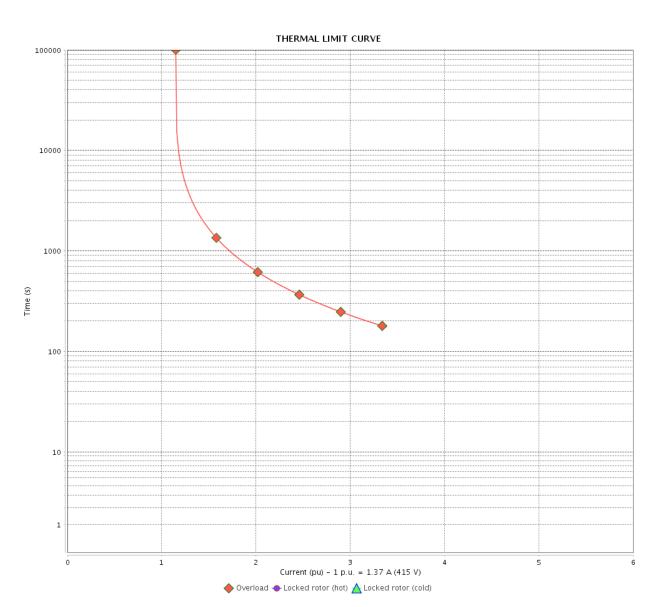
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# VFD OPERATION CURVE

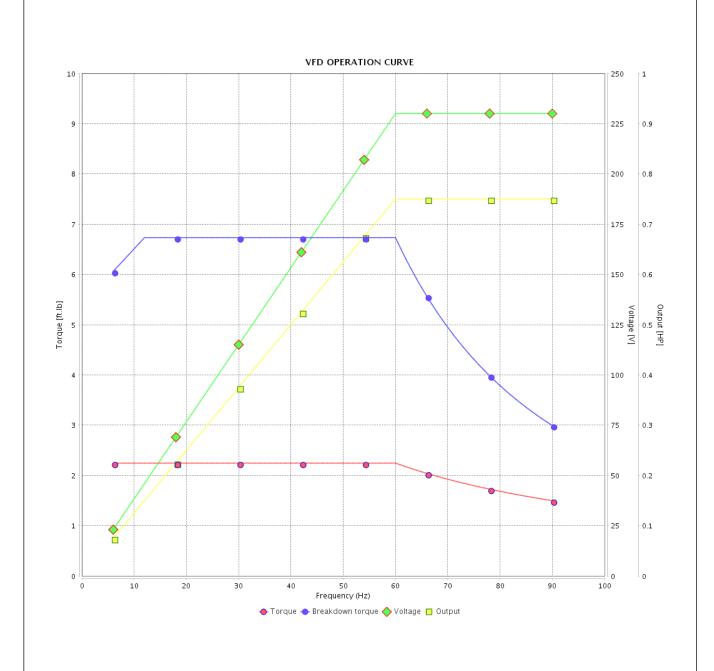
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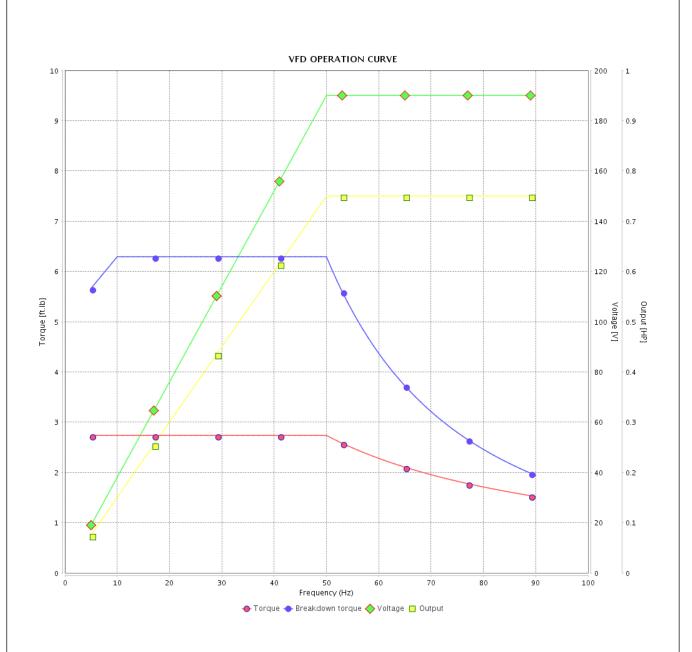
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Customer :

Product line : Standard Efficiency Three-Phase Product code : 14797711

Catalog # : .7518ES3E56C-S



 Performance
 : 190/380 V 50 Hz 4P

 Rated current
 : 2.74/1.37 A
 Moment of inertia (J)
 : 0.0648 sq.ft.lb

 LRC
 : 5.6
 Duty cycle
 : Cont.(S1)

Rated torque : 2.74 ft.lb Insulation class : F
Locked rotor torque : 170 % Service factor : 1.15
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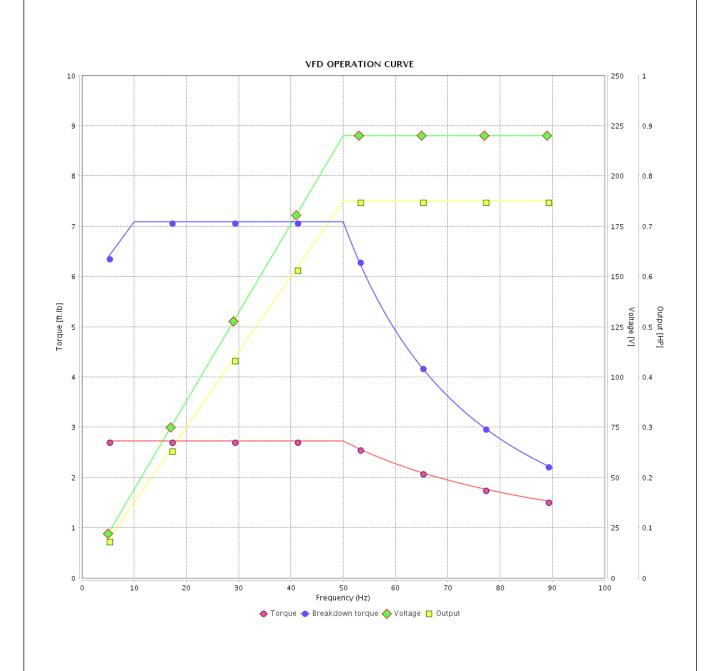
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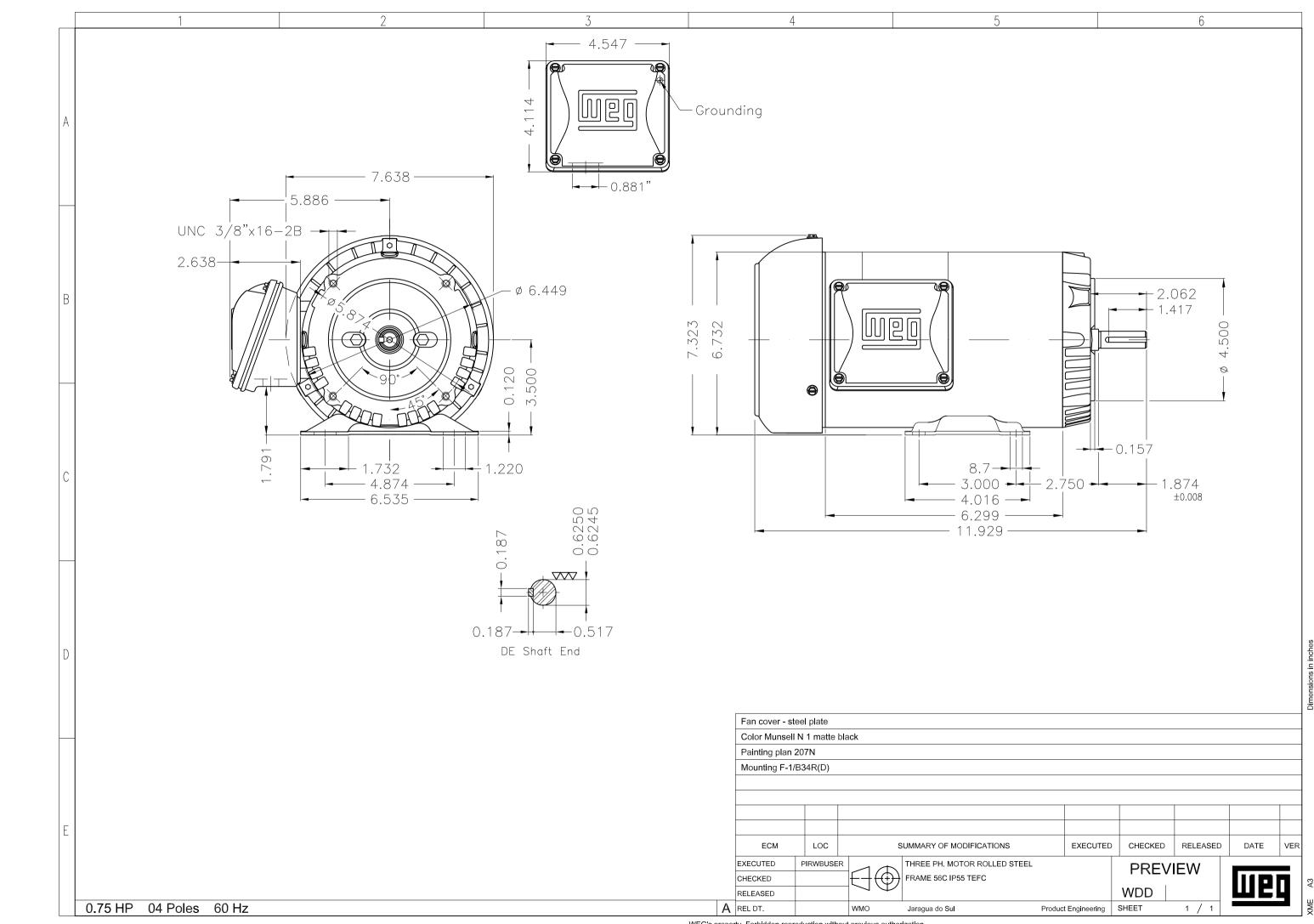
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**UL)**US LISTED

SAFE AREA

3PT9

14797711 MADE IN BRAZIL

MODEL .7518ES3E56C-S 8 B NO1.TEOICOXOX 3APR2022

For 60Hz: Class I, Zone 2, IIC Class I, DIv.2, Gr. A,B,C,D - T3 Div 2 Inverter Duty (SF1.00) CT 2:1/VT 1000:1

> 8 4 CONT 56C

1000 m.a.s.l

P55

F AT 80K

NSC NCL W

2.70-2.81/1.40 208-230/460

1.15

3FA 냃

NEMA ZPM 쌆

CODE SH SF1.00

TEFC 20°C

NOM EFF

0.72

78.5%

190-220/380-415V

1440RPM

2.74-2.80/1.37-1.38A

ALTERNATE RATING:

SABLE @ 208V

50 Hz

IEC 60034-1

E 1

SF1.15

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT. 10:1 CT MOBIL POLYREX EM **EFF 78.1%** 

8202-ZZ 0.75HP

ODE

8203-ZZ

牌

9

2

T2-WHT

1-810

T9-RRK RFD 13-ORG I7-PNK T5-BLK



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

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

shocks. Disconnect power source before servicing unit. AVERTISSEMENT: Le moteur doit être mis à la terre 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