DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Standard Efficiency Three-Phase Product code: 14785608

> Catalog #: .3336ES3E56CFL-S

: 56C Frame Cooling method : IC411 - TEFC Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Starting method Ambient temperature : -20°C to +40°C : Direct On Line

Ambient temperature		: -20°C to +40°C	Starting method	: Direct On Line
Altitude		: 1000 m.a.s.l.	Approx. weight ³	: 17.5 lb
Protection degree		: IP55	Moment of inertia (J)	: 0.0389 sq.ft.lb
Output [HP]		0.33	0.33	0.33
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		208-230/460	190/380	220/415
Rated current [A]		1.33-1.20/0.602	1.27/0.635	1.16/0.613
L. R. Amperes [A]		8.52-7.71/3.85	6.73/3.37	6.71/3.56
LRC [A]		6.4x(Code L)	5.3x(Code H)	5.8x(Code J)
No load current [A]	0.621-0.720/0.360	0.586/0.293	0.611/0.324
Rated speed [RPN	/ 1]	3485	2850	2870
Slip [%]		3.19	5.00	4.33
Rated torque [ft.lb]		0.497	0.608	0.604
Locked rotor torqu	e [%]	250	180	210
Breakdown torque	[%]	300	240	270
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		72s (cold) 40s (hot)	90s (cold) 50s (hot)	81s (cold) 45s (hot)
Noise level ²		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
	25%	44.9	57.8	56.4
Efficiency (%)	50%	48.0	59.6	58.7
Efficiency (70)	75%	57.5	65.4	65.2
	100%	62.0	67.2	67.7
	25%	0.44	0.48	0.44
Power Factor	50%	0.72	0.77	0.72
I OWEI FACIOI	75%	0.79	0.85	0.82
	100%	0.84	0.89	0.87

Non drive end Foundation loads **Drive** end

Bearing type 6203 ZZ 6202 ZZ Max. traction : 7 lb Sealing V'Ring Without Max. compression : 24 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

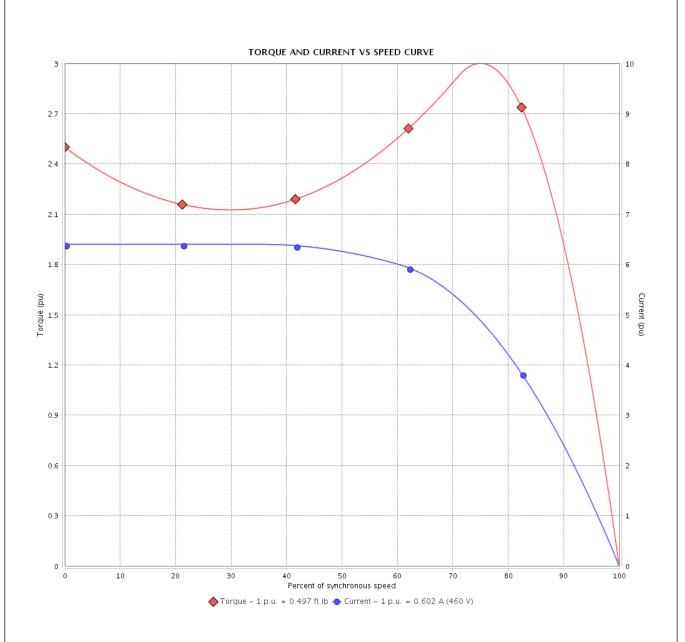
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 14785608

Catalog #: .3336ES3E56CFL-S



Performance : 208-230/460 V 60 Hz 2P

LRC : 6.4 Duty cycle : Cont.(S1)
Rated torque : 0.497 ft.lb Insulation class : F

Locked rotor torque : 250 % Service factor : Breakdown torque : 300 % Temperature rise : 80 K

Rated speed : 3485 rpm

Locked rotor time	e : 7	'2s (cold) 40s (hot)			
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TORQUE AND CURRENT VS SPEED CURVE

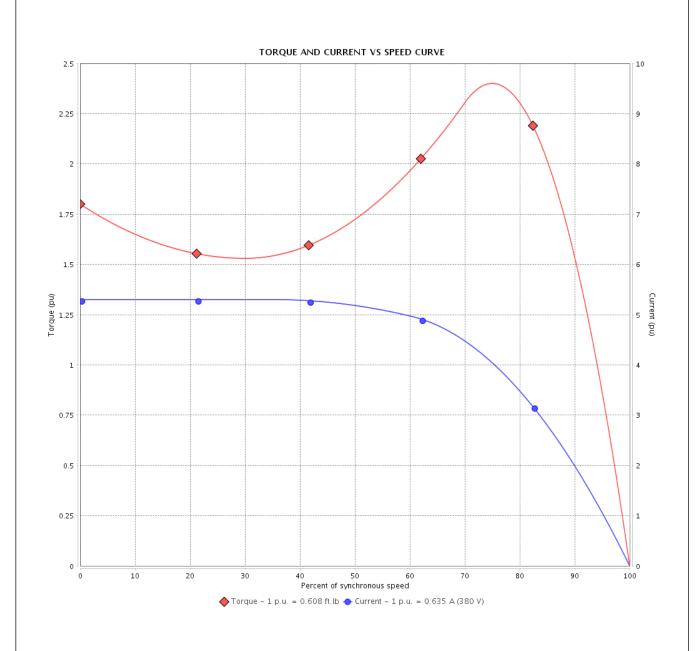
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Performance : 190/380 V 50 Hz 2P Rated current : 1.27/0.635 A Moment of inertia (J) : 0.0389 sq.ft.lb **LRC** : 5.3 Duty cycle : Cont.(S1) : 0.608 ft.lb Insulation class : F Rated torque : 180 % Locked rotor torque Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2850 rpm

Locked rotor time : 90s (cold) 50s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

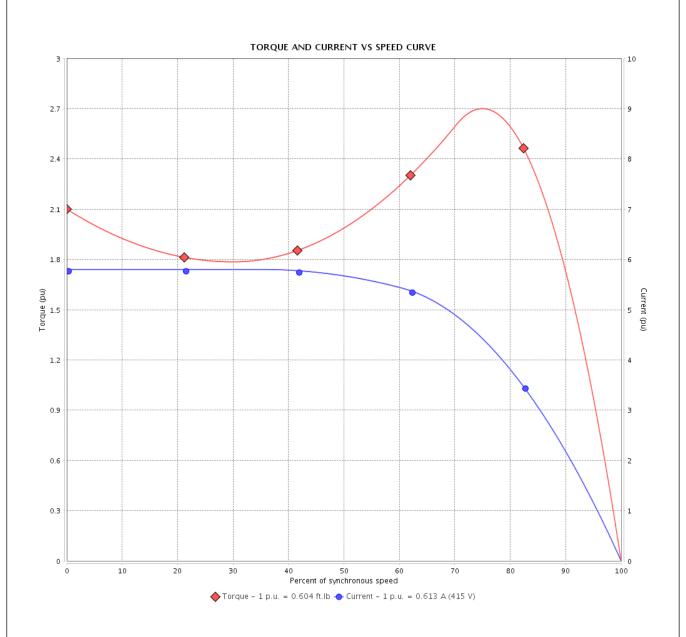
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Customer :

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Performance : 220/415 V 50 Hz 2P Rated current : 1.16/0.613 A Moment of inertia (J) : 0.0389 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : F : 0.604 ft.lb Insulation class Rated torque : 210 % Service factor Locked rotor torque : 1.15 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 2870 rpm

Locked rotor time : 81s (cold) 45s (hot)

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LOAD PERFORMANCE CURVE

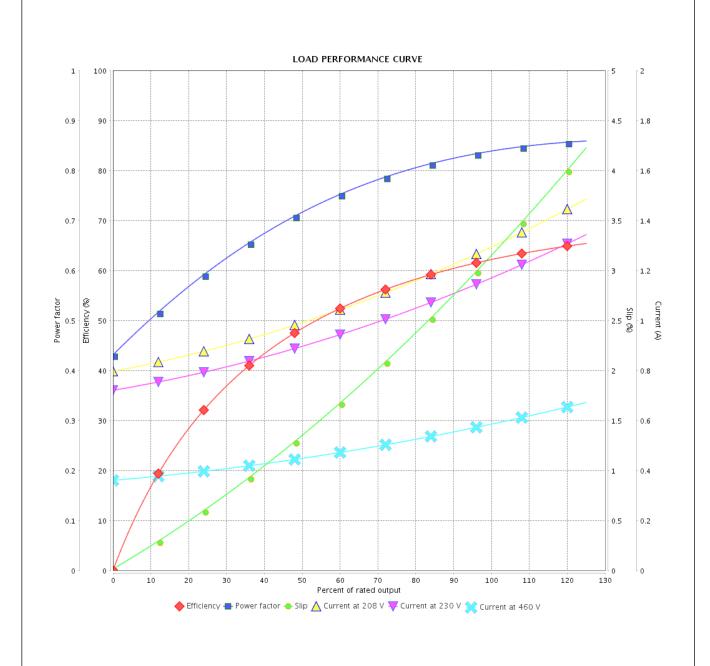
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Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6.4 : 0.49 ue : 250	% %	Moment of Duty cycle Insulation Service fa	class ctor	: 0.0389 sq.ft : Cont.(S1) : F : : 80 K	.lb
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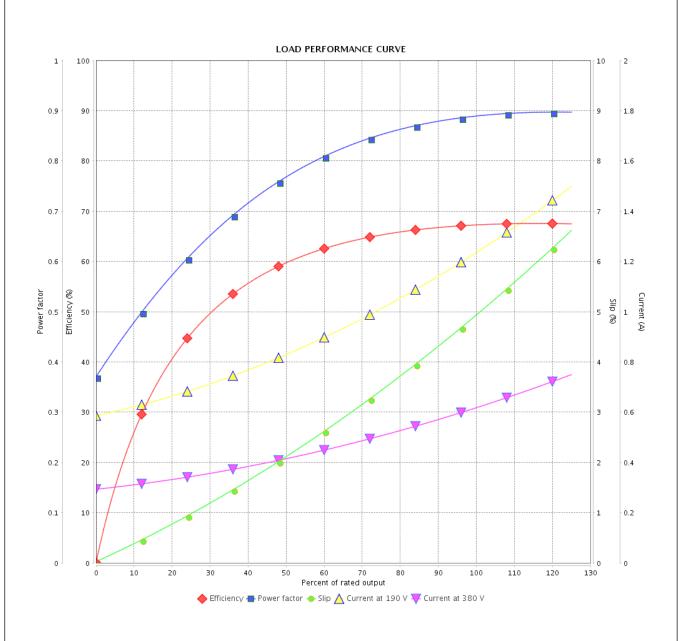
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Breakdown torque : 240 % Temperature rise
Rated speed : 2850 rpm

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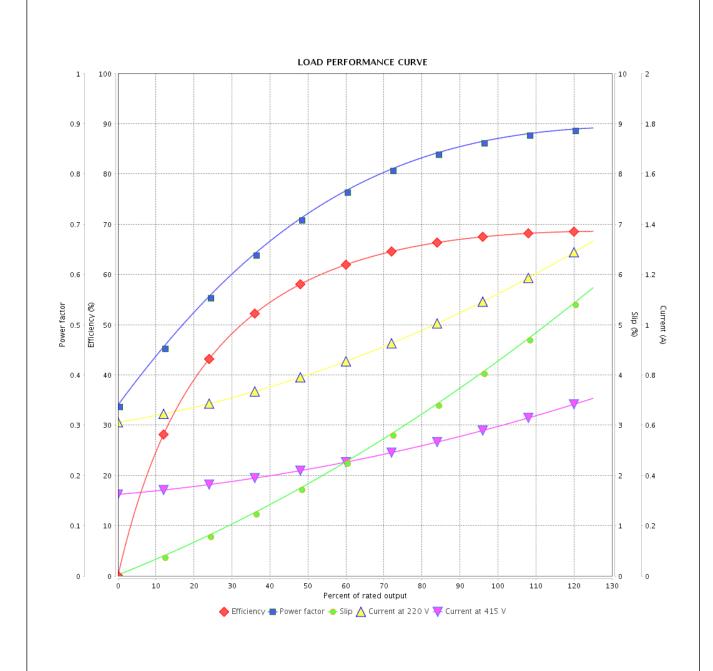
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THERMAL LIMIT CURVE

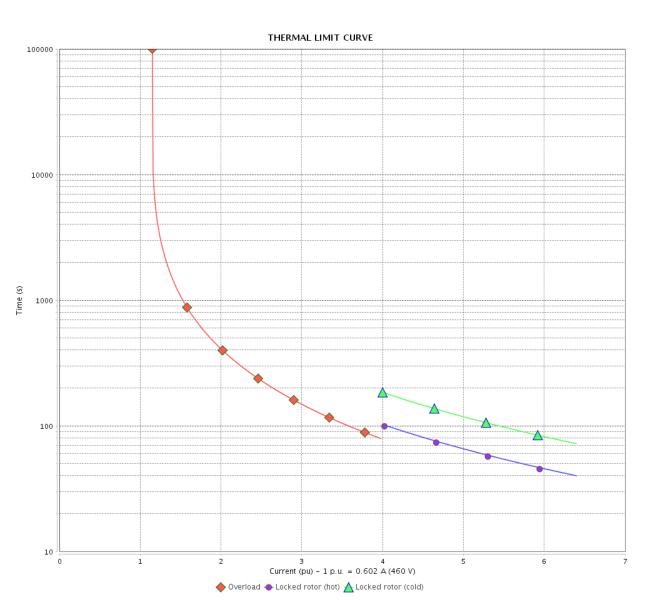
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 Cooling constant
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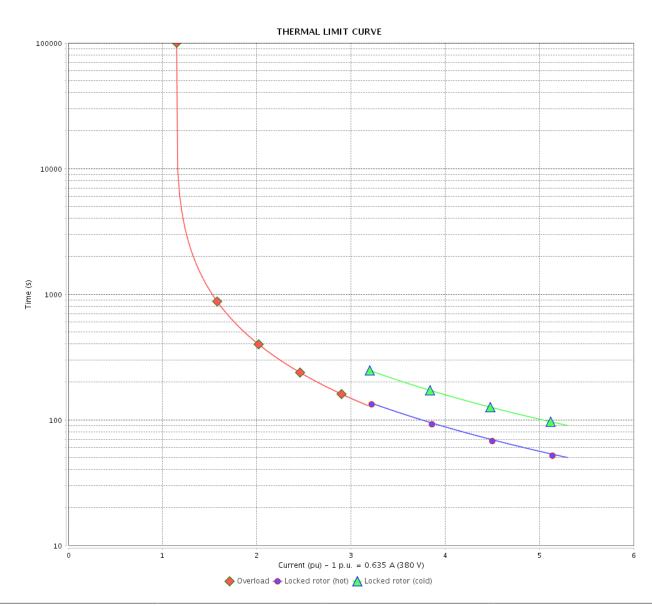
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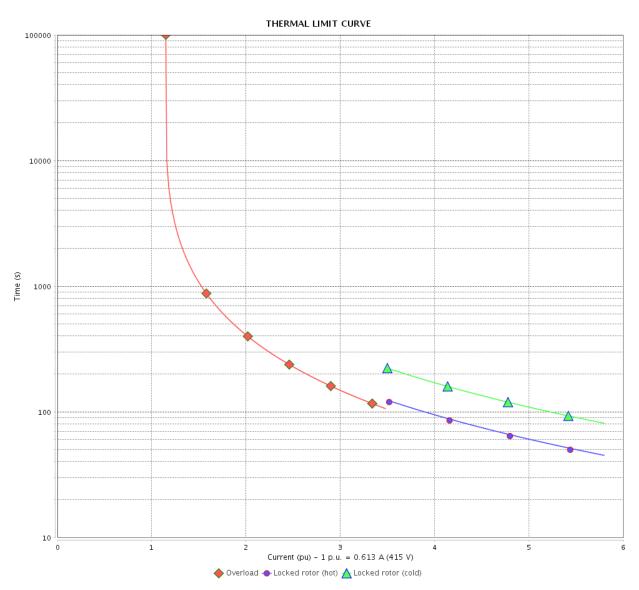
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VFD OPERATION CURVE

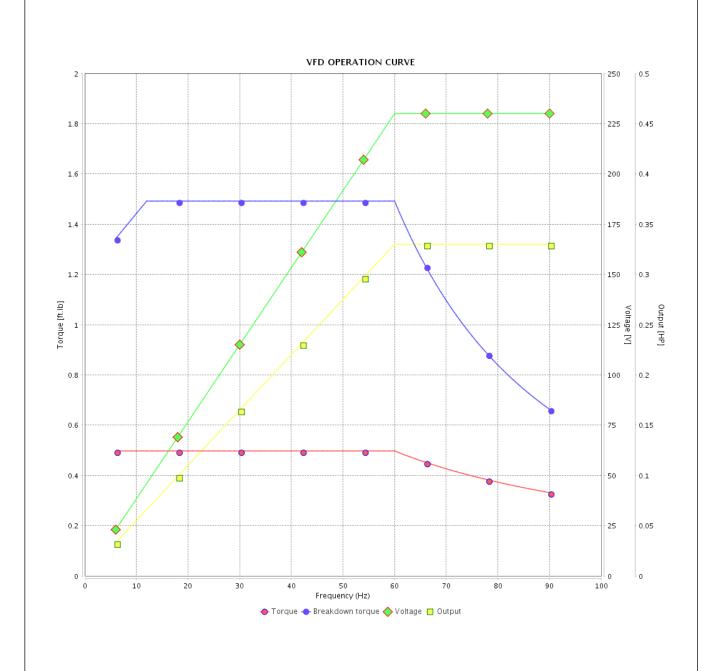
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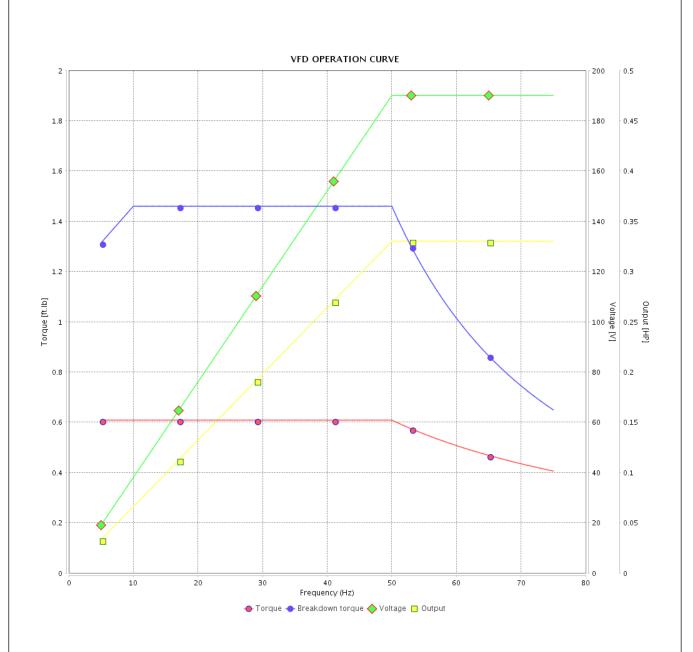
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Locked rotor torque : 180 % Service factor : 1.15
Breakdown torque : 240 % Temperature rise : 80 K

Rated speed : 2850 rpm

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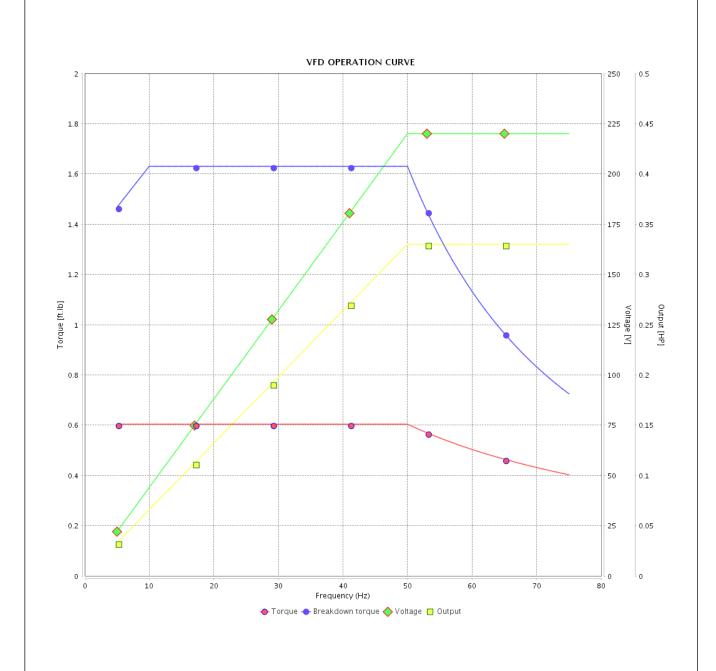
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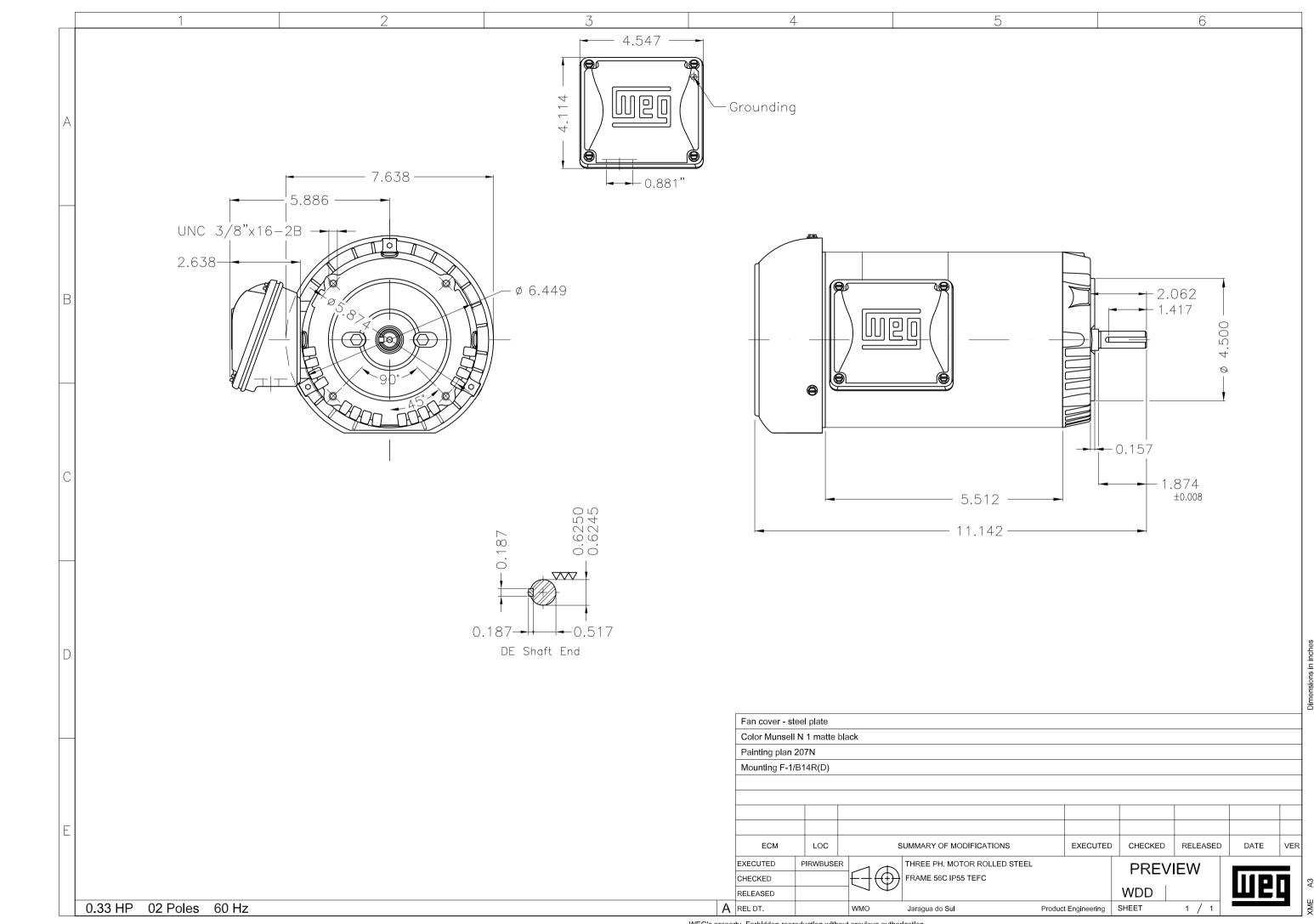


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Temperature rise Rated speed : 2870 rpm

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14785608 MADE IN MÉXICO

MODEL 3336ES3E56CFL-S

NO1.TEOICOXOX

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UL)US LISTED SAFE AREA

3PT9

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

1.33-1.20/0.602 208-230/460 62.0% 1.33-1. 1.15 NOM EFF

P55

1000 m.a.s.l

CONT

56C

F AT 80K

NSC INC. W

190-220/380-415V **EFF 67.2%**

> NEMA 2850RPM

SPM 3FA 냃 쌆

> CODE DES

> TEFC 20°C

SF1.00

SABLE @ 208V

For safe area-Inverter duty motor For 60Hz use on VPWM 1000:1 VT. 10:1 CT (IE2)

50 Hz

1.27-1.14/0.635-0.604A

ALTERNATE RATING:

IEC 60034-1

SF1.15

MOBIL POLYREX EM

8202-ZZ 0.33HP

ODE

8203-ZZ

牌

9

2

1-810

T2-WHT

T4-YEL F6-GRY

13-ORG I7-PNK T5-BLK

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

shocks. Disconnect power source before servicing unit. 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

AVERTISSEMENT: Le moteur doit être mis à la terre

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

T8-RED T9-RRK RFD