DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer : Automation Direct

Product line : Standard Efficiency Three-Phase

Product code : 14785608
Catalog # : .3336ES3E56CFL-S

Frame	: 56C	Locked rotor time	: 72s (cold) 40s (hot)
Output	: 0.33 HP (0.25 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 1.33-1.20/0.602 A	Protection degree	: IP55
L. R. Amperes	: 8.52-7.71/3.85 A	Cooling method	: IC411 - TEFC
LRC	: 6.4x(Code L)	Mounting	: F-1
No load current	: 0.621-0.720/0.360 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 3485 rpm	Noise level[2]	: 68.0 dB(A)
Slip	: 3.19 %	Starting method	: Direct On Line
Rated torque	: 0.497 ft.lb	Approx. weight[3]	: 17.5 lb
Locked rotor torque	: 250 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0389 sq.ft.lb		

Output	25%	50%	75%	100%
Efficiency (%)	44.9	48.0	57.5	62.0
Power Factor	0.44	0.72	0.79	0.84

Foundation loads

Max. traction	: 8 lb
Max. compression	: 25 lb

		Drive end	Non drive end
Bearing type	:	6203 ZZ	6202 ZZ
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

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

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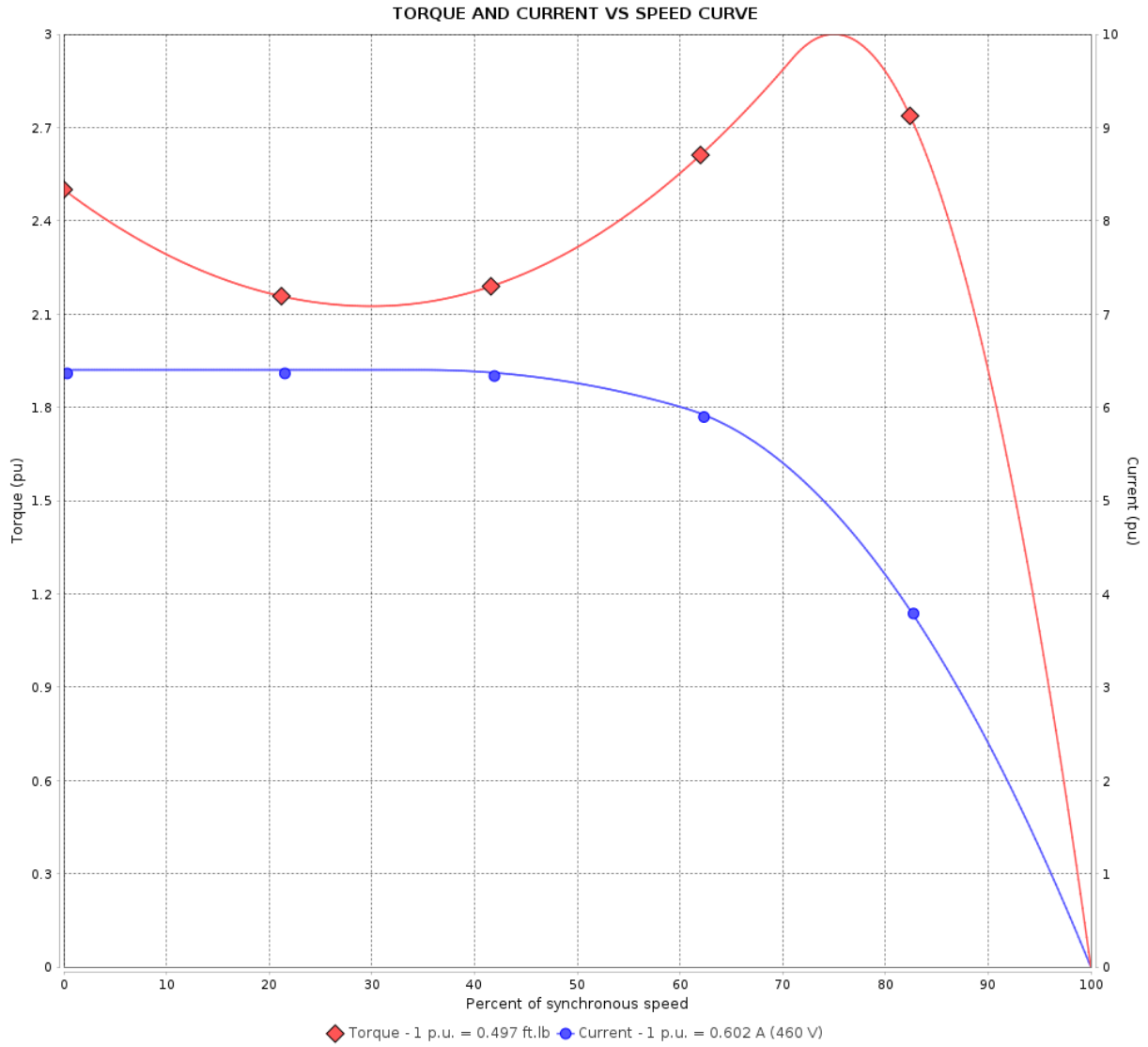

Performance	: 208-230/460 V 60 Hz 2P

Rated current	: 1.33-1.20/0.602 A	Moment of inertia (J)	: 0.0389 sq.ft.lb
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	: 72s (cold) 40s (hot)

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LOAD PERFORMANCE CURVE

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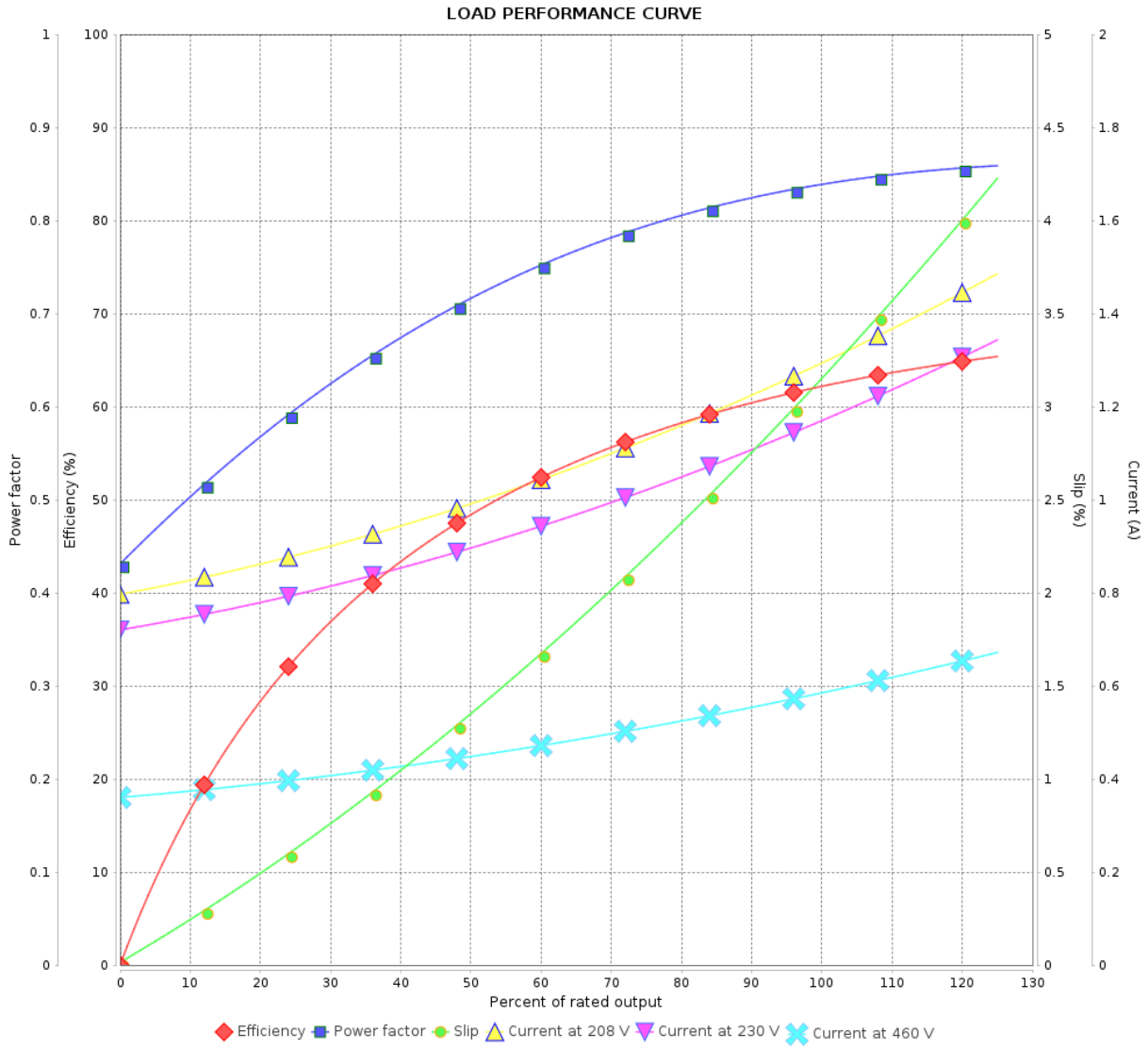

Performance	: 208-230/460 V 60 Hz 2P		
Rated current	: 1.33-1.20/0.602 A	Moment of inertia (J)	: 0.0389 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.497 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	:
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3485 rpm		

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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

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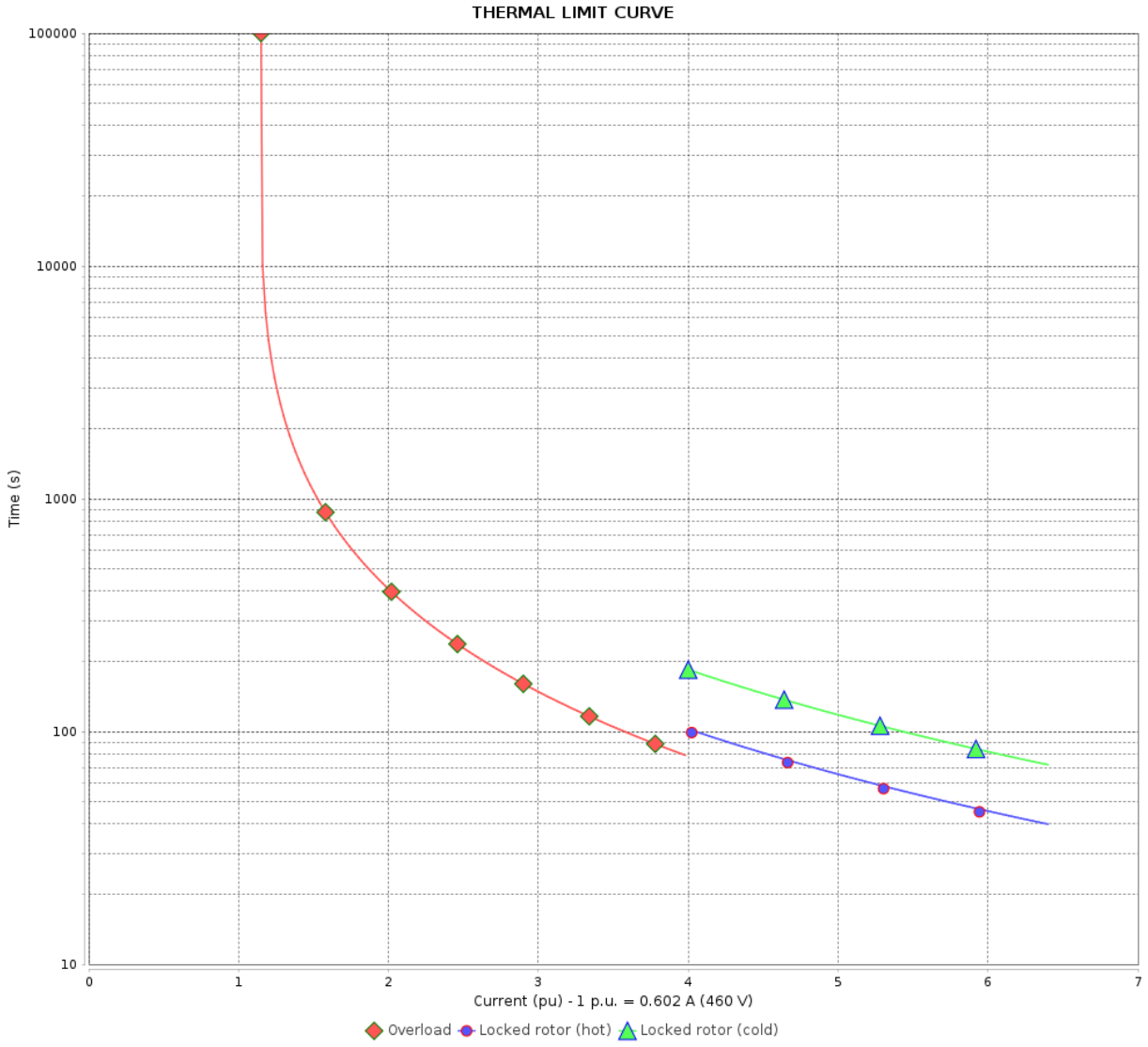
Product line	: Standard Efficiency Three-Phase	Product code :	14785608
		Catalog # :	.3336ES3E56CFL-S



Performance	: 208-230/460 V 60 Hz 2P		
Rated current	: 1.33-1.20/0.602 A	Moment of inertia (J)	: 0.0389 sq.ft.lb
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		
Heating constant			
Cooling constant			

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

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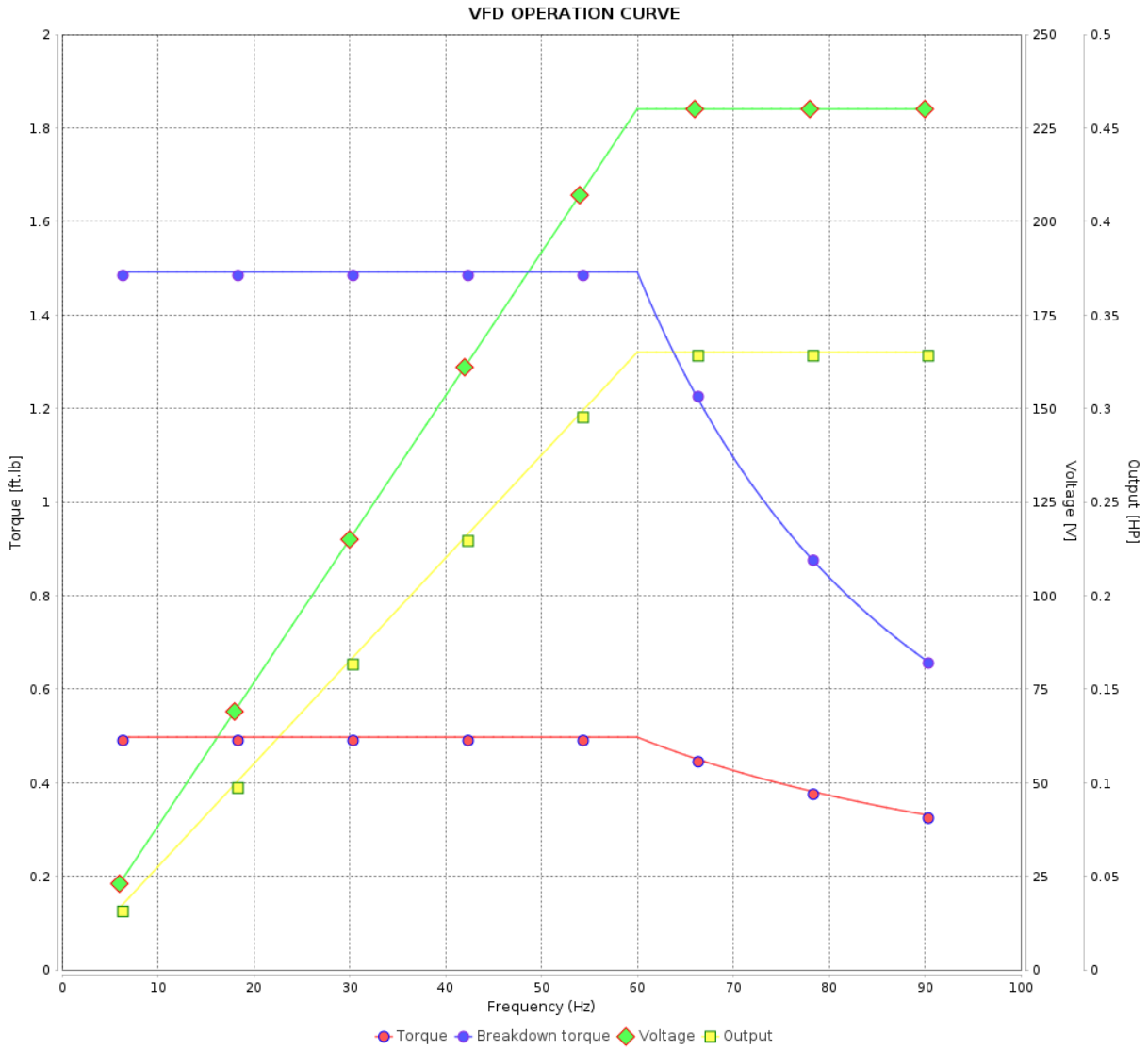

Performance	: 208-230/460 V 60 Hz 2P

Rated current	: 1.33-1.20/0.602 A	Moment of inertia (J)	: 0.0389 sq.ft.lb
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		

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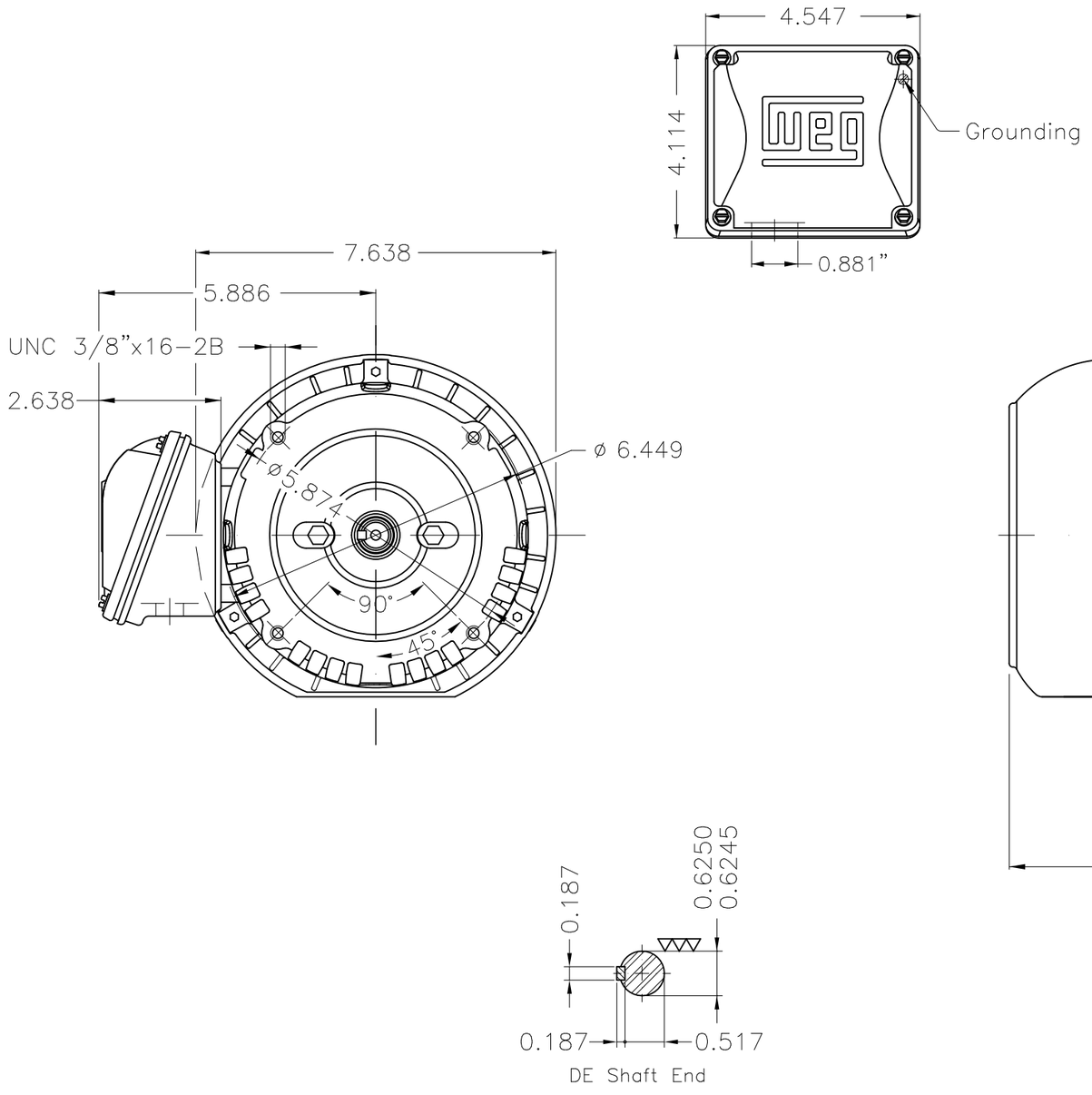


Fan cover - steel plate

Color Munsell N 1 matte black

Painting plan 207N

Mounting F-1/B14R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER

EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL	PREVIEW	
CHECKED		FRAME 56C IP55 TEFC	WDD	
RELEASED				
REL DT.		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1	

0.33 HP 02 Poles 60 Hz

A

Dimensions in inches

XME A3

3PT9

C UL US LISTED FOR SAFE AREA

C CSA US

MADE IN MÉXICO

MAT: 14785608
W01.TE0IC0X0X
MODEL .3336ES3E56CFL-S

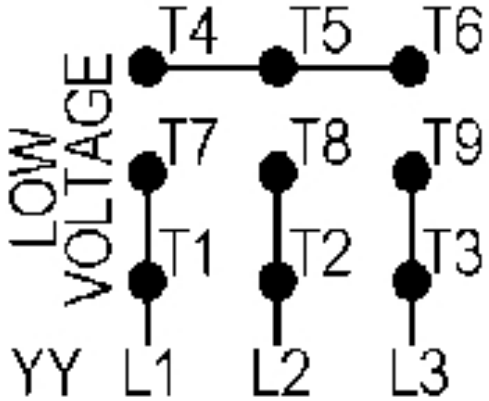
For 60Hz: Class I, Zone 2, IIC
Class I, Div.2, Gr. A,B,C,D - T3
Div 2 Inverter Duty (SF1.00)
CT 2:1/VT 1000:1

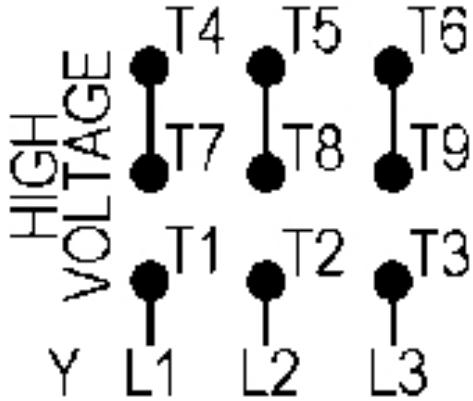
PH 3	Hz 60	HP 0.33	
FR 56C		kW 0.25	
DUTY CONT.		V 208-230/460	
ALT 1000 m.a.s.l		A 1.33-1.20/0.602	
INS CL F ΔT 80K	IP55	SFA 1.33-1.38/0.692	
AMB 40°C	DES -	SF 1.15	
ENCL TEFC	CODE L	PF 0.84	
USABLE @ 208V SF1.00		RPM 3485	
		NEMA NOM. EFF 62.0%	

ALTERNATE RATING: 0.33HP 50Hz 190-220/380-415V SF1.15
1.27-1.14/0.635-0.604A 2850RPM EFF 67.2% (IE2) IEC 60034-1

For safe area-Inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT

DE 6203-ZZ	ODE 6202-ZZ	MOBIL POLYREX EM	





T1-BLU T2-WHT
T3-ORG T4-YEL
T5-BLK T6-GRY
T7-PNK T8-RED
T9-BRK RED

INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical shocks. Disconnect power source before servicing unit.

AVERTISSEMENT: Le moteur doit être mis à la terre conformément aux codes électriques locaux et nationaux afin d'éviter tout choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine.