DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805246

Frame	: 56HC	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation[1]	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight[3]	: 14.7 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0041 kgm²
Design	: A		

Output [HP]		2	1.5	1.5
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		5.24/2.62	4.74/2.37	4.34/2.30
L. R. Amperes [A]		40.3/20.2	39.3/19.7	39.0/20.7
LRC [A]		7.7x(Code K)	8.3x(Code K)	9.0x(Code L)
No load current [A]		2.07/1.04	2.04/1.02	2.19/1.16
Rated speed [RPM]		3475	2890	2900
Slip [%]		3.47	3.67	3.33
Rated torque [kgfm]		0.418	0.377	0.375
Locked rotor torque [%]		229	270	310
Breakdown torque [%]		290	320	350
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		19s (cold) 11s (hot)	25s (cold) 14s (hot)	21s (cold) 12s (hot)
Noise level[2]		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%	73.9	75.7	74.0
	50%	75.5	76.3	75.1
	75%	78.5	79.2	78.7
	100%	80.0	79.4	79.5
Power Factor	25%	0.49	0.47	0.41
	50%	0.76	0.74	0.68
	75%	0.86	0.84	0.80
	100%	0.90	0.89	0.87

		Drive end	Non drive end
Bearing type	:	6204 ZZ	6202 ZZ
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads
Max. traction : 35 kgf
Max. compression : 49 kgf

Notes
USABLE @208V 5.79A SF 1.00 SFA 5.79A

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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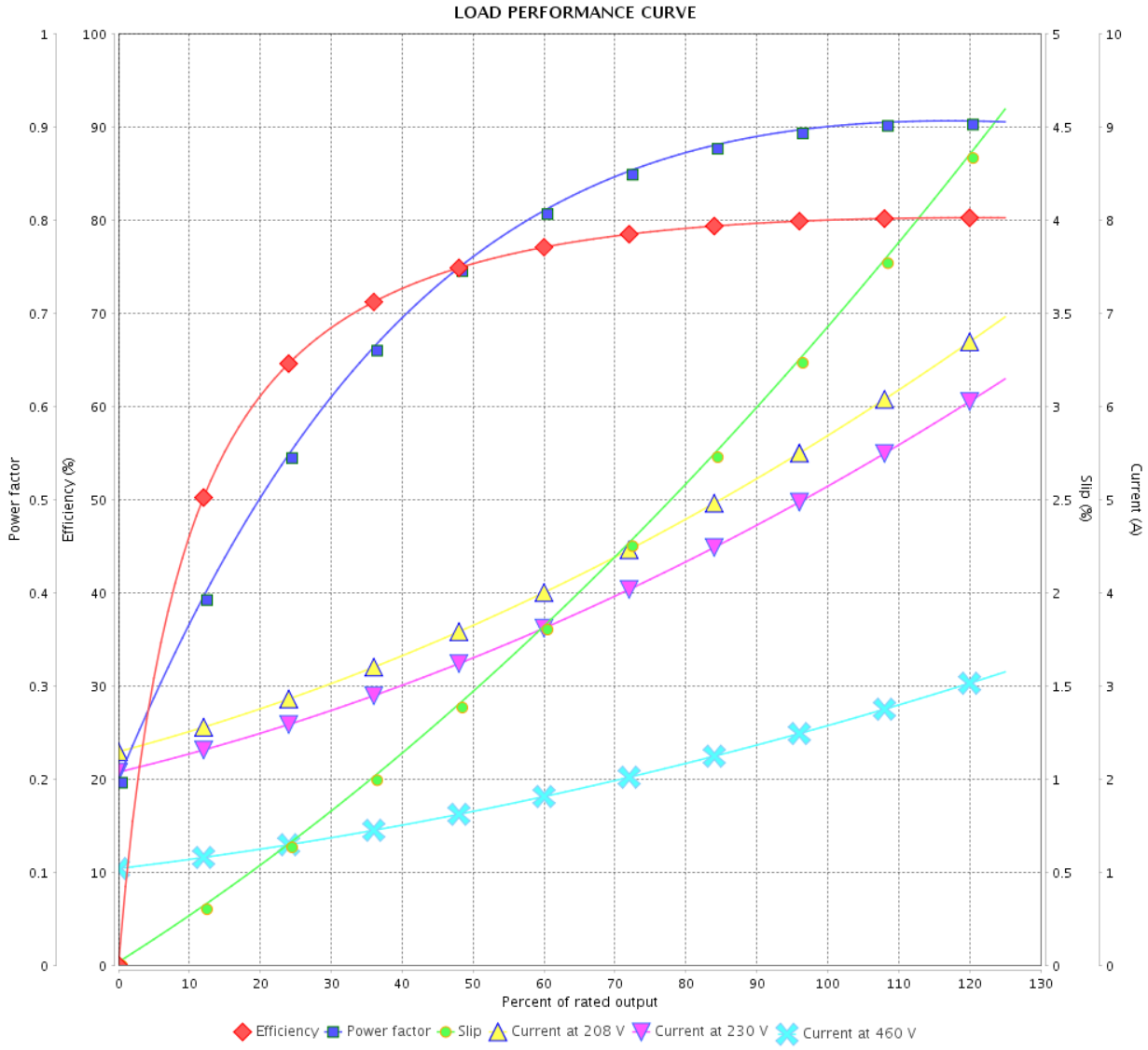
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Standard Efficiency Three-Phase	Product code :	12805246



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 5.24/2.62 A	Moment of inertia (J)	: 0.0041 kgm²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 0.418 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	:
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 3475 rpm	Design	: A

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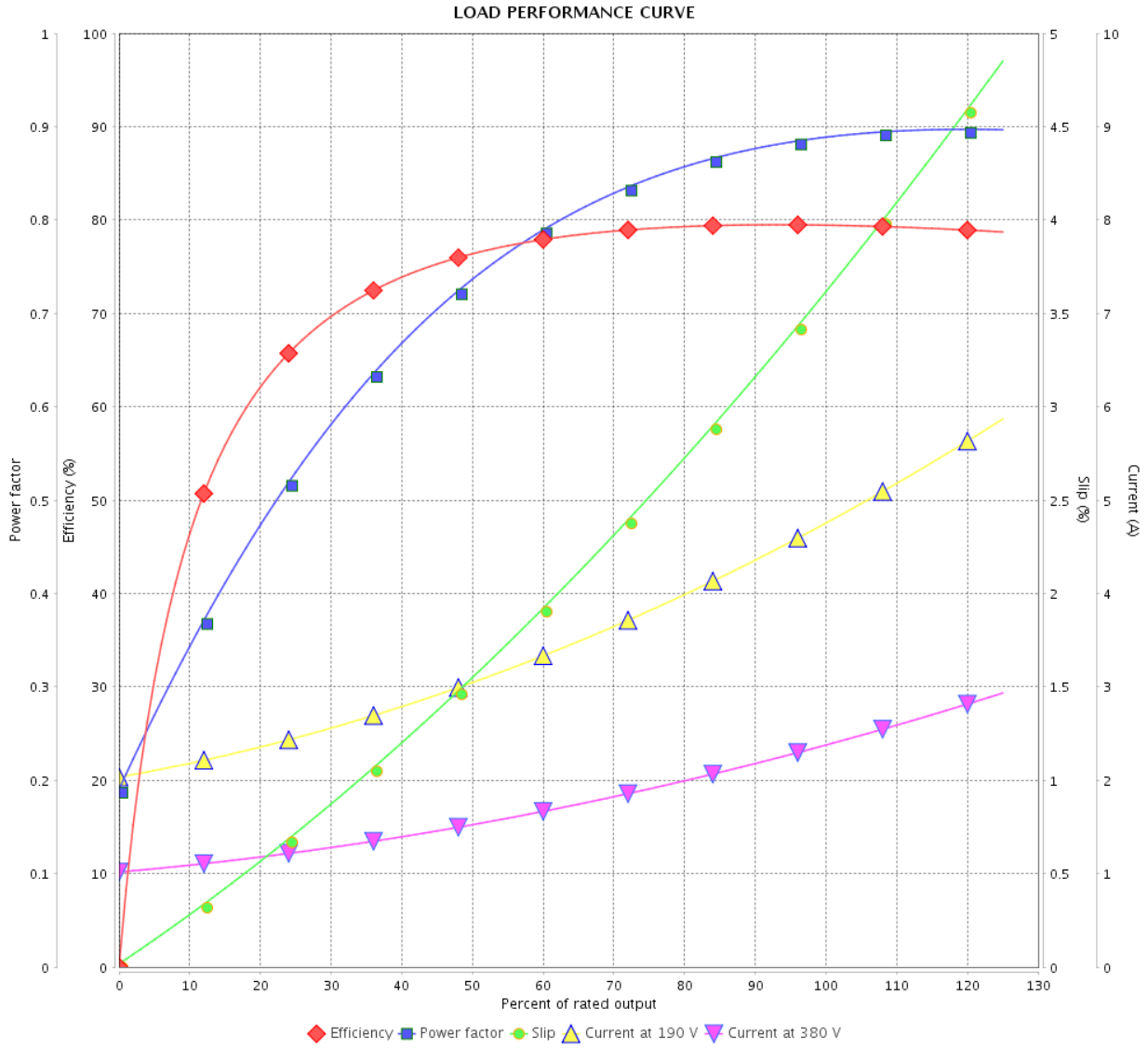

Performance	: 190/380 V 50 Hz 2P		
Rated current	: 4.74/2.37 A	Moment of inertia (J)	: 0.0041 kgm²
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 0.377 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 2890 rpm	Design	: A

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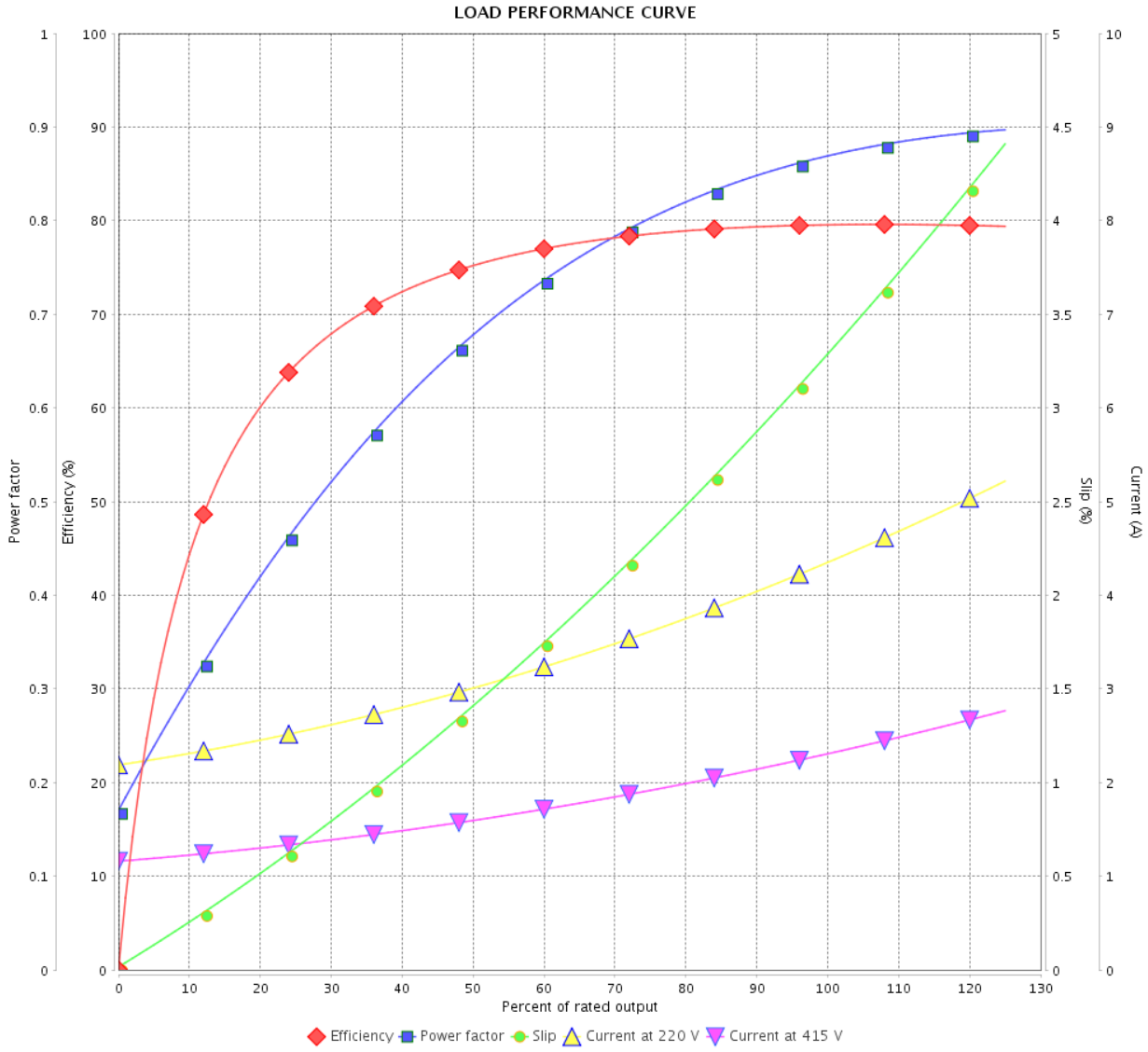

Performance	: 220/415 V 50 Hz 2P		
Rated current	: 4.34/2.30 A	Moment of inertia (J)	: 0.0041 kgm²
LRC	: 9.0	Duty cycle	: Cont.(S1)
Rated torque	: 0.375 kgfm	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.15
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: A

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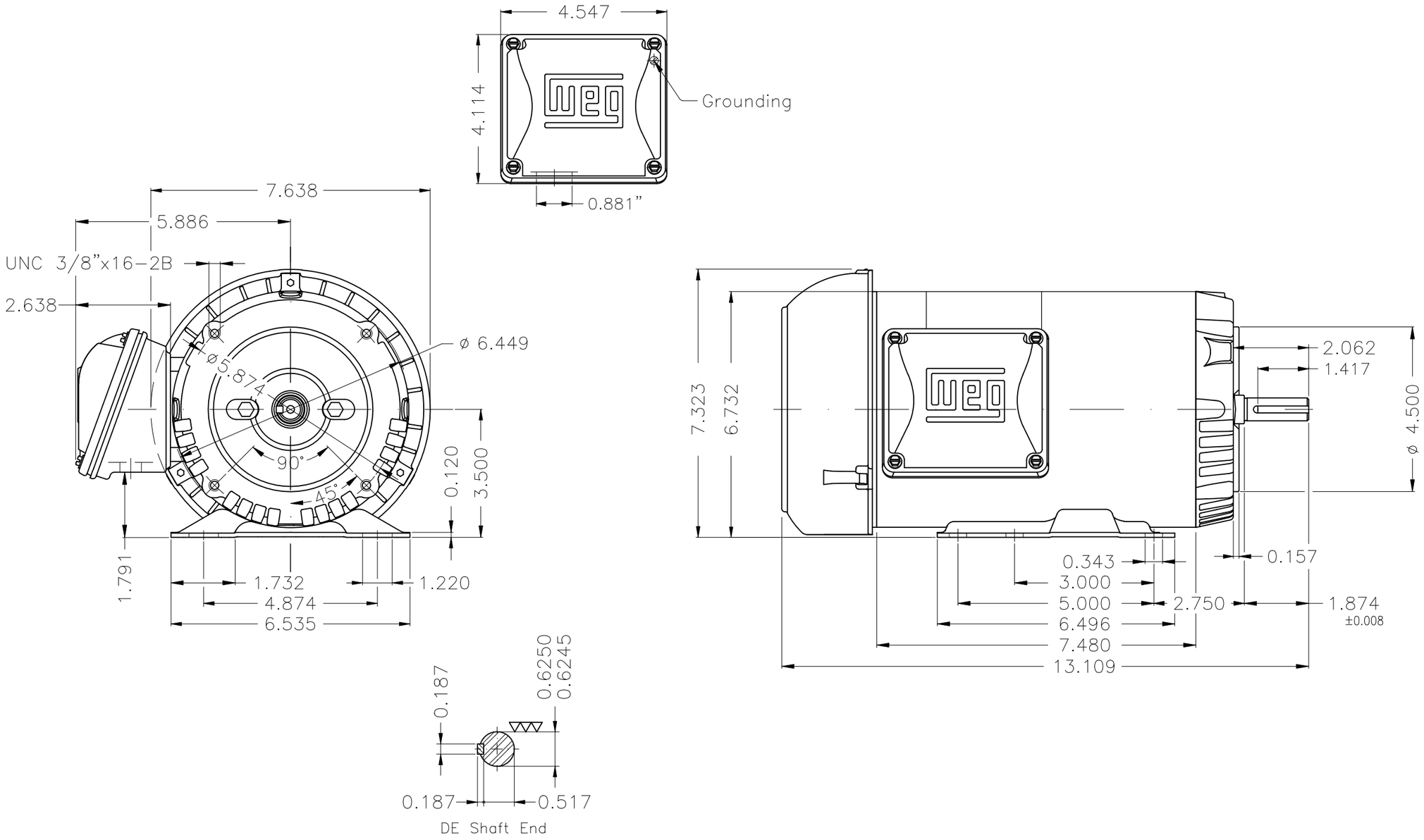

			HYBRISUSER				00
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER

Color Munsell N 1 matte black

Painting plan 207N

Mounting B34D

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR ROLLED STEEL

FRAME 56HC IP55 TEFC

WMO Jaragua do Sul Product Engineering

PREVIEW

WDD 00

SHEET 1 / 1

2 HP 02 Poles 60 Hz

A

Dimensions in inches

XME A3