DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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

Frame	: 182/4T	Cooling method	: IC01 - ODP
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]	: 25.6 kg
Design	: B	Moment of inertia (J)	: 0.0058 kgm²

Output [HP]		5	5	5
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
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 [kgfm]		1.03	1.26	1.25
Locked rotor torque [%]		190	150	170
Breakdown torque [%]		300	220	250
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	80 K
Locked rotor time		21s (cold) 12s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level[2]		65.0 dB(A)	63.0 dB(A)	63.0 dB(A)
Efficiency (%)	25%	85.2	88.3	87.1
	50%	85.5	86.5	86.0
	75%	86.5	86.0	86.2
	100%	86.5	83.8	84.7
Power Factor	25%	0.45	0.51	0.47
	50%	0.73	0.79	0.75
	75%	0.83	0.88	0.85
	100%	0.88	0.91	0.90

		Drive end	Non drive end
Bearing type	:	6206 ZZ	6205 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads
Max. traction : 52 kgf
Max. compression : 78 kgf

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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LOAD PERFORMANCE CURVE

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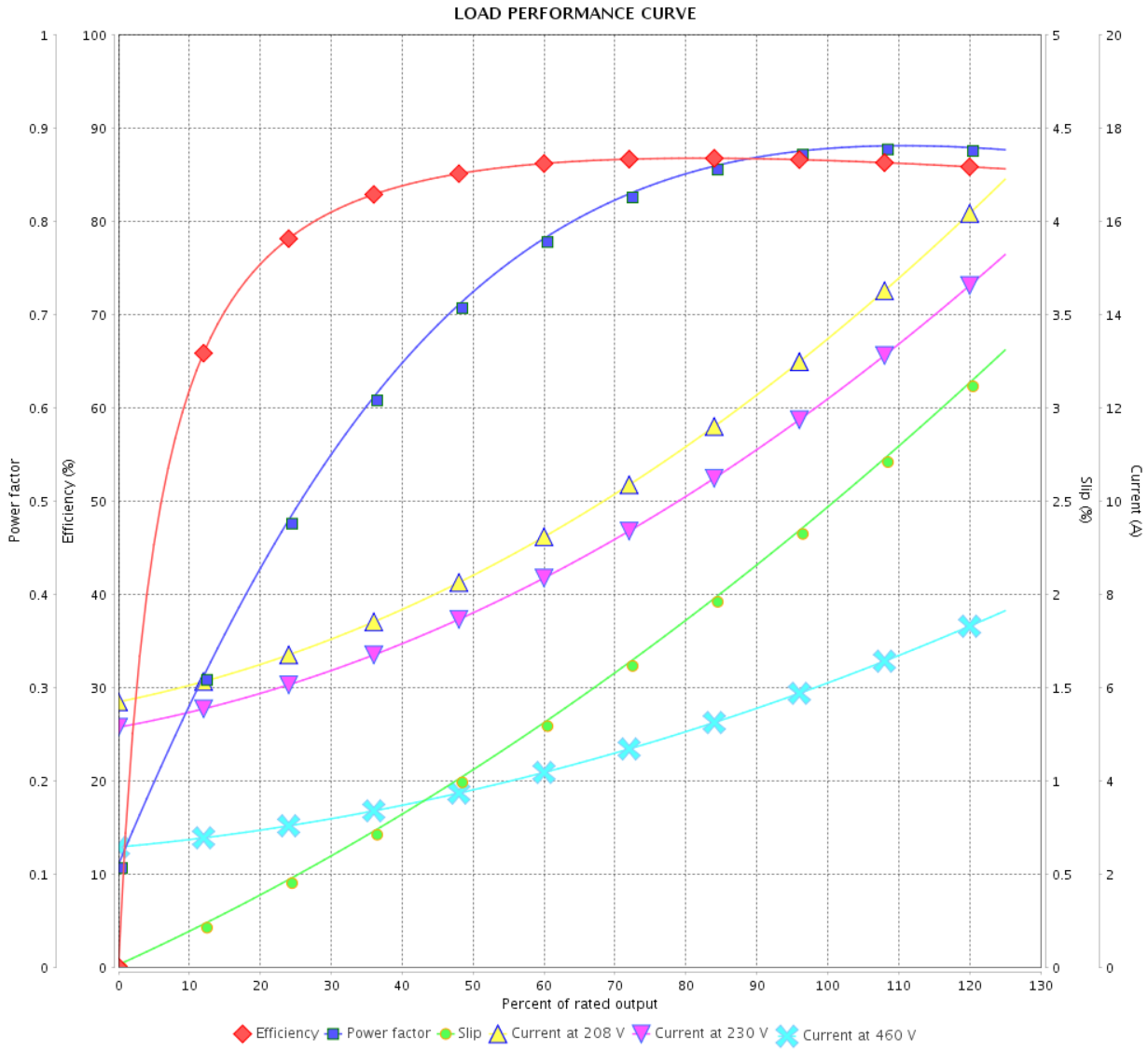
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12751142



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 12.2/6.10 A	Moment of inertia (J)	: 0.0058 kgm²
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 1.03 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: B

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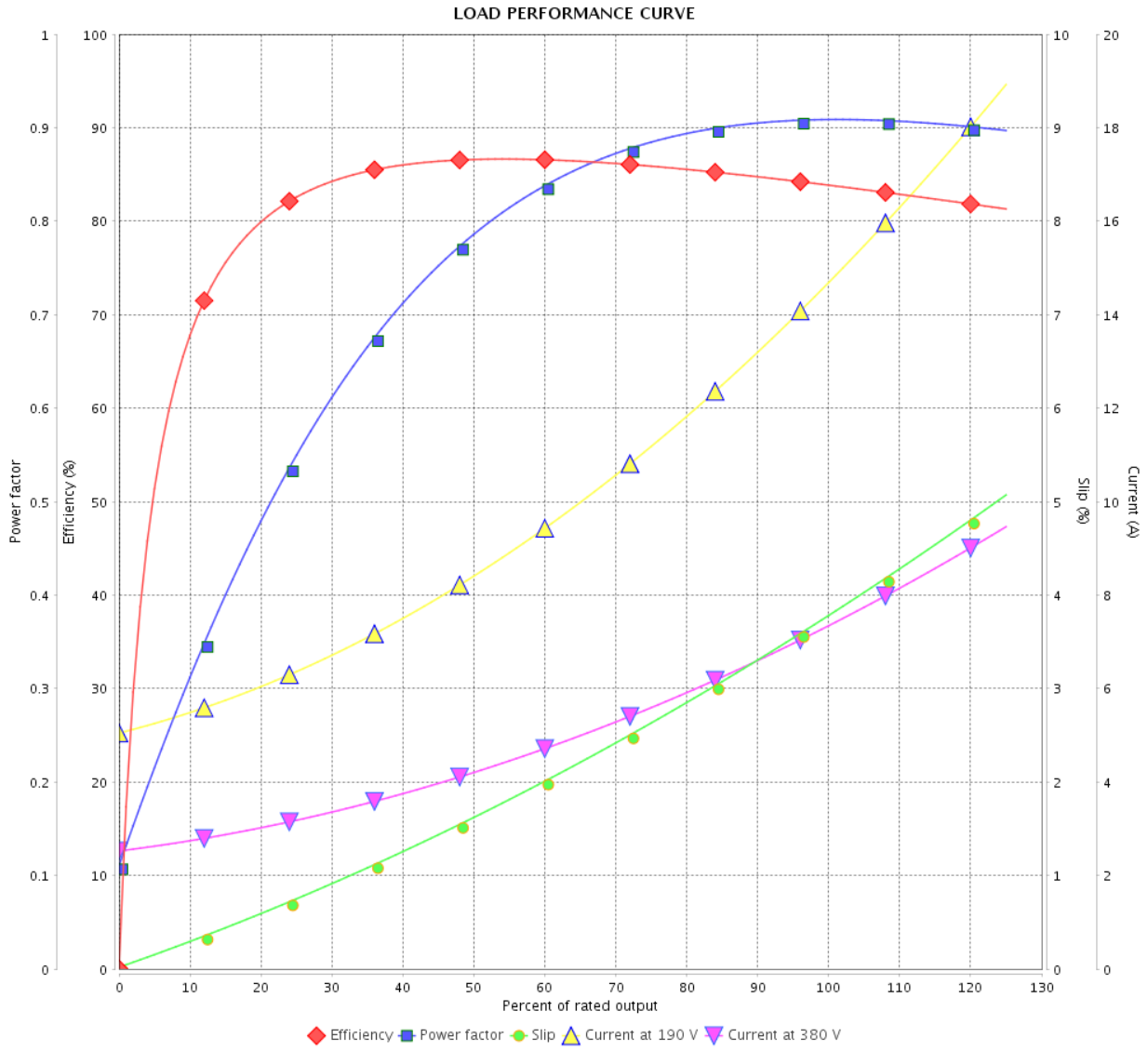

Performance	: 190/380 V 50 Hz 2P		
Rated current	: 14.7/7.37 A	Moment of inertia (J)	: 0.0058 kgm²
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 1.26 kgfm	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2885 rpm	Design	: B

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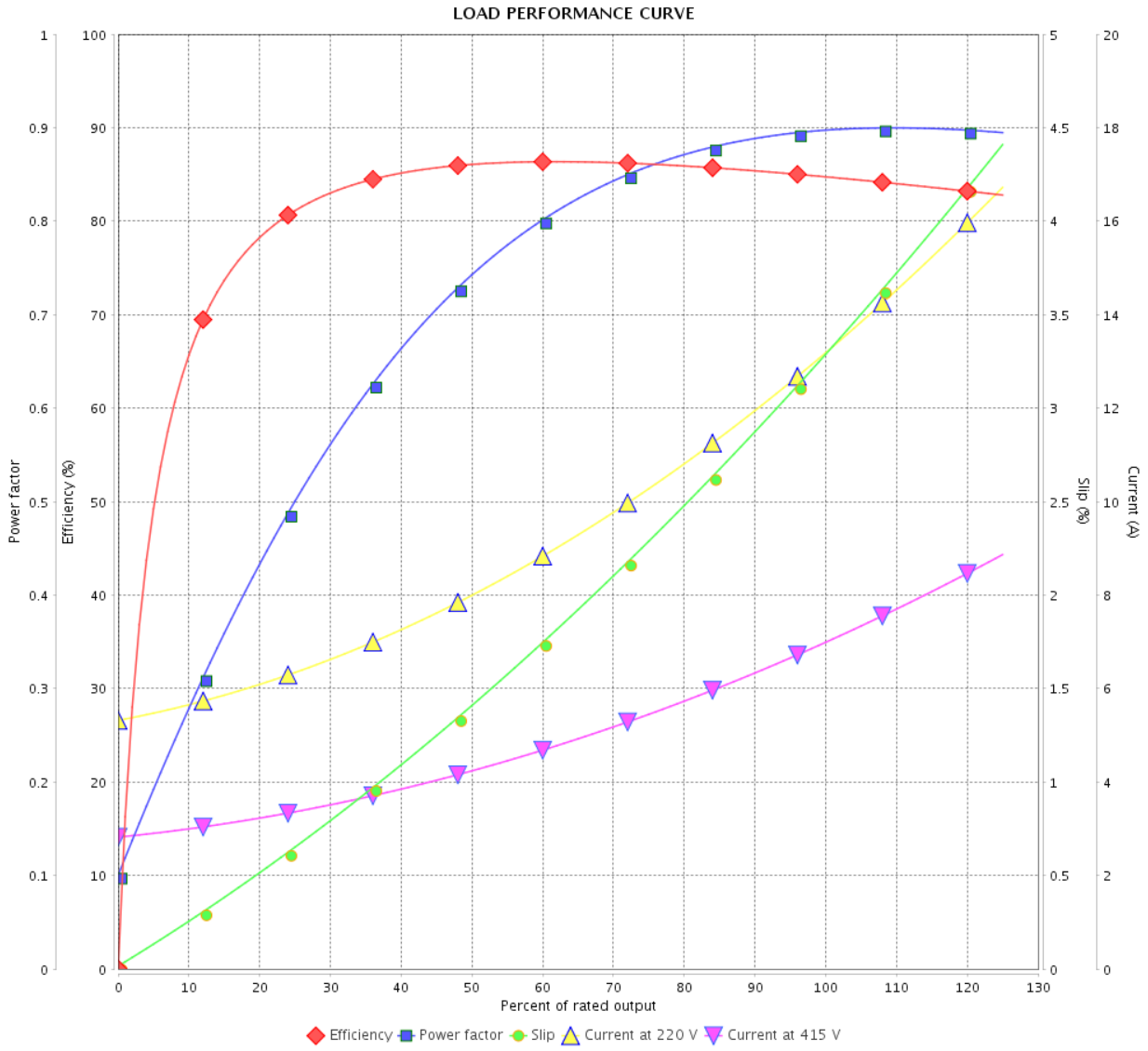

Performance	: 220/415 V 50 Hz 2P		
Rated current	: 13.2/7.01 A	Moment of inertia (J)	: 0.0058 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 1.25 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: B

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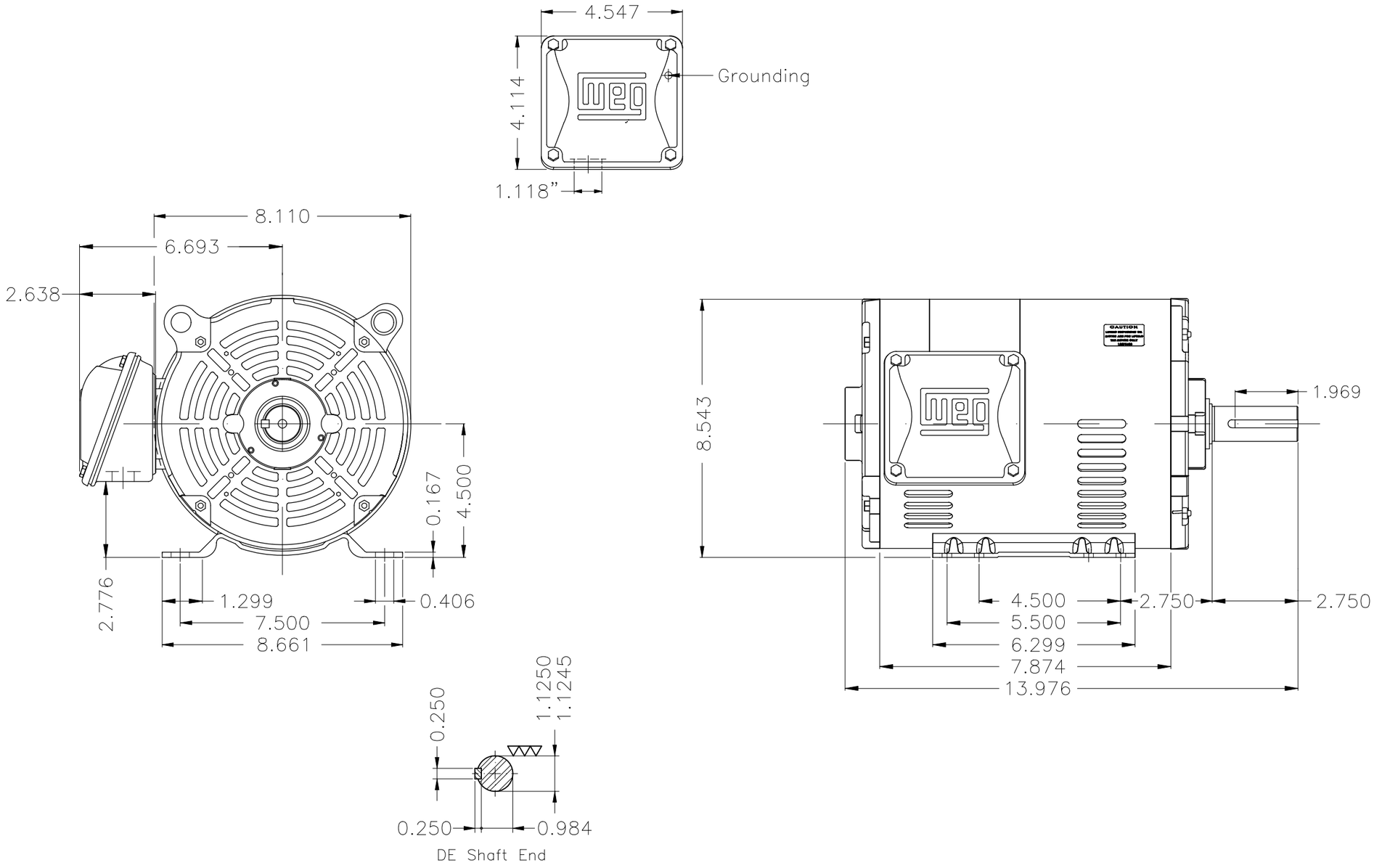

Color Munsell N 1 matte black							
Painting plan 207N							
Mounting F-1/B3R(D)							
			HYBRISUSER				00
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER

EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL NEMA PREM. EFF.	PREVIEW	
CHECKED		FRAME 182/4T IP21 ODP	WDD	00
RELEASED				
REL. DATE		WMO Jaraguá do Sul Product Engineering	SHEET	1 / 1

5 HP 02 Poles 60 Hz

A

Dimensions in inches

XME A3