DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12675402

Frame	: 182/4T	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight³	: 38.2 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0169 kgm²
Design	: B		

Output [HP]		3	3	3
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		7.62/3.81	9.08/4.54	8.30/4.40
L. R. Amperes [A]		67.1/33.5	60.8/30.4	62.3/33.0
LRC [A]		8.8x(Code K)	6.7x(Code H)	7.5x(Code J)
No load current [A]		4.00/2.00	3.95/1.97	3.99/2.11
Rated speed [RPM]		1765	1455	1460
Slip [%]		1.94	3.00	2.67
Rated torque [kgfm]		1.23	1.50	1.49
Locked rotor torque [%]		220	170	200
Breakdown torque [%]		300	260	290
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		32s (cold) 18s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level²		56.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Efficiency (%)	25%	86.4	88.2	87.8
	50%	87.5	87.5	87.2
	75%	88.5	87.7	87.9
	100%	89.5	86.7	87.0
Power Factor	25%	0.36	0.42	0.39
	50%	0.61	0.68	0.65
	75%	0.74	0.79	0.77
	100%	0.81	0.85	0.83

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

Foundation loads

Max. traction : 71 kgf

Max. compression : 109 kgf

Notes

USABLE @208V 8.43A SF 1.00 SFA 8.43A

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.

Rev.	Changes Summary	Performed	Checked	Date

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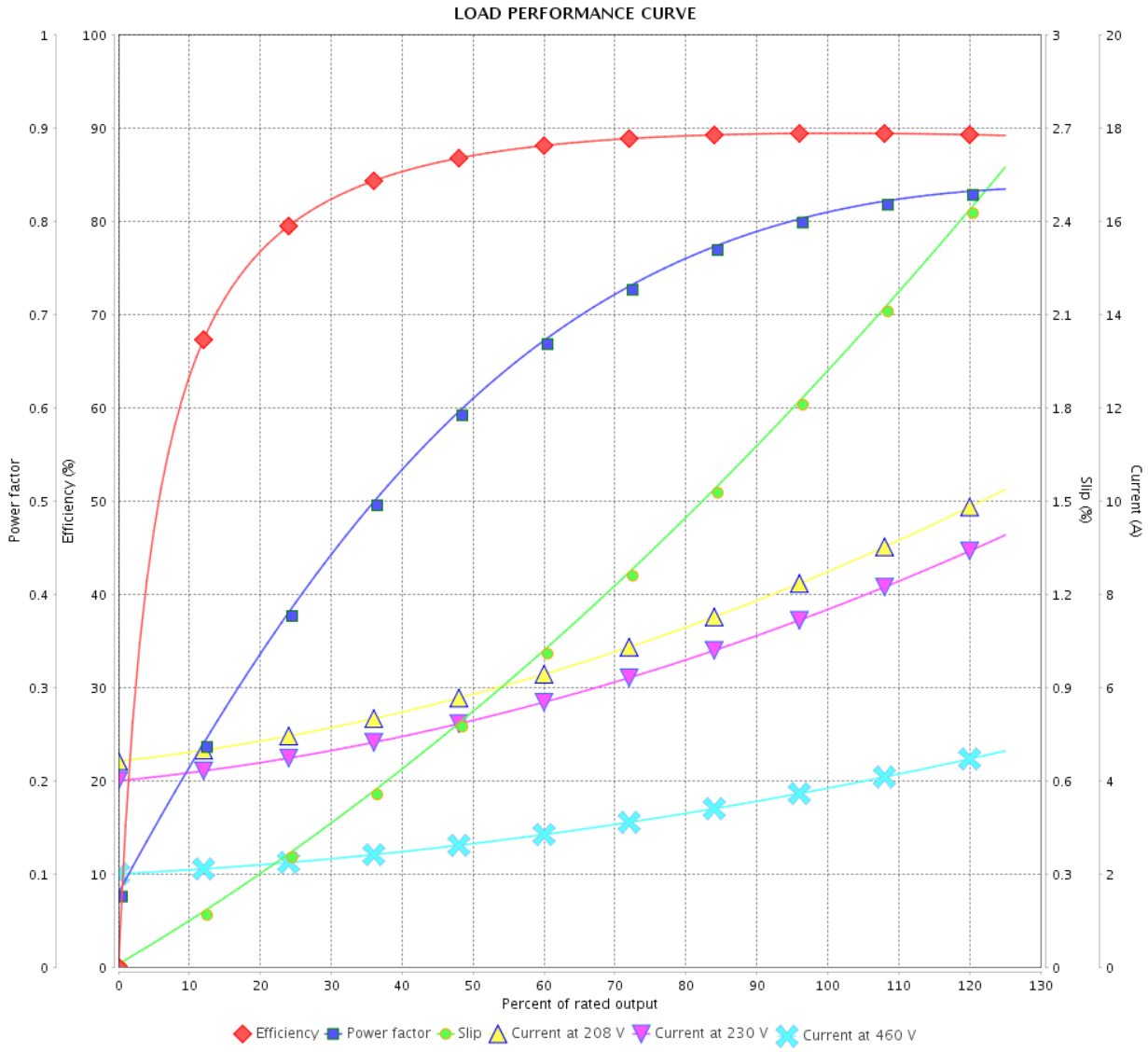
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12675402



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 7.62/3.81 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 8.8	Duty cycle	: Cont.(S1)
Rated torque	: 1.23 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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Three Phase Induction Motor - Squirrel Cage

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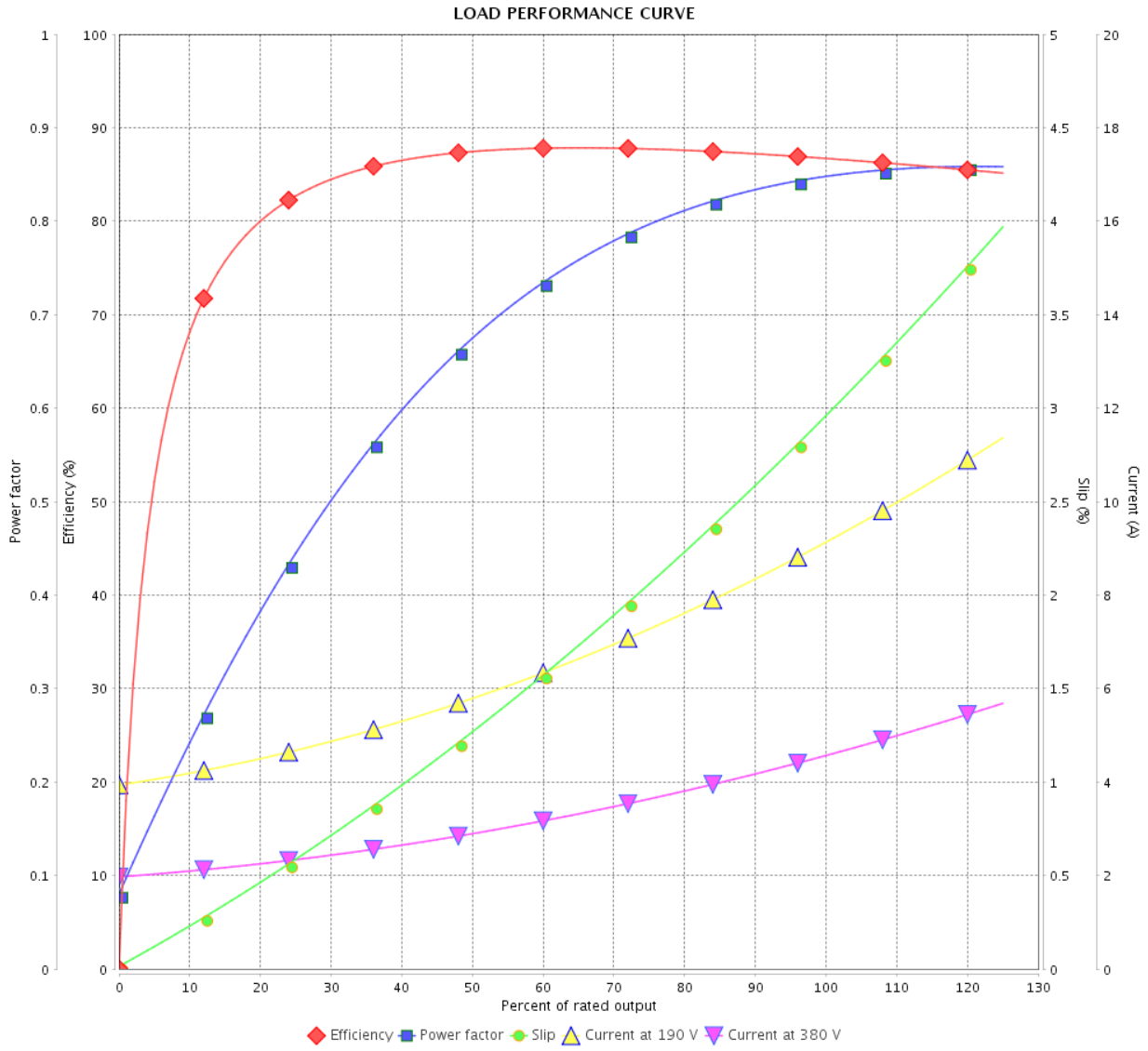

Performance	: 190/380 V 50 Hz 4P		
Rated current	: 9.08/4.54 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 1.50 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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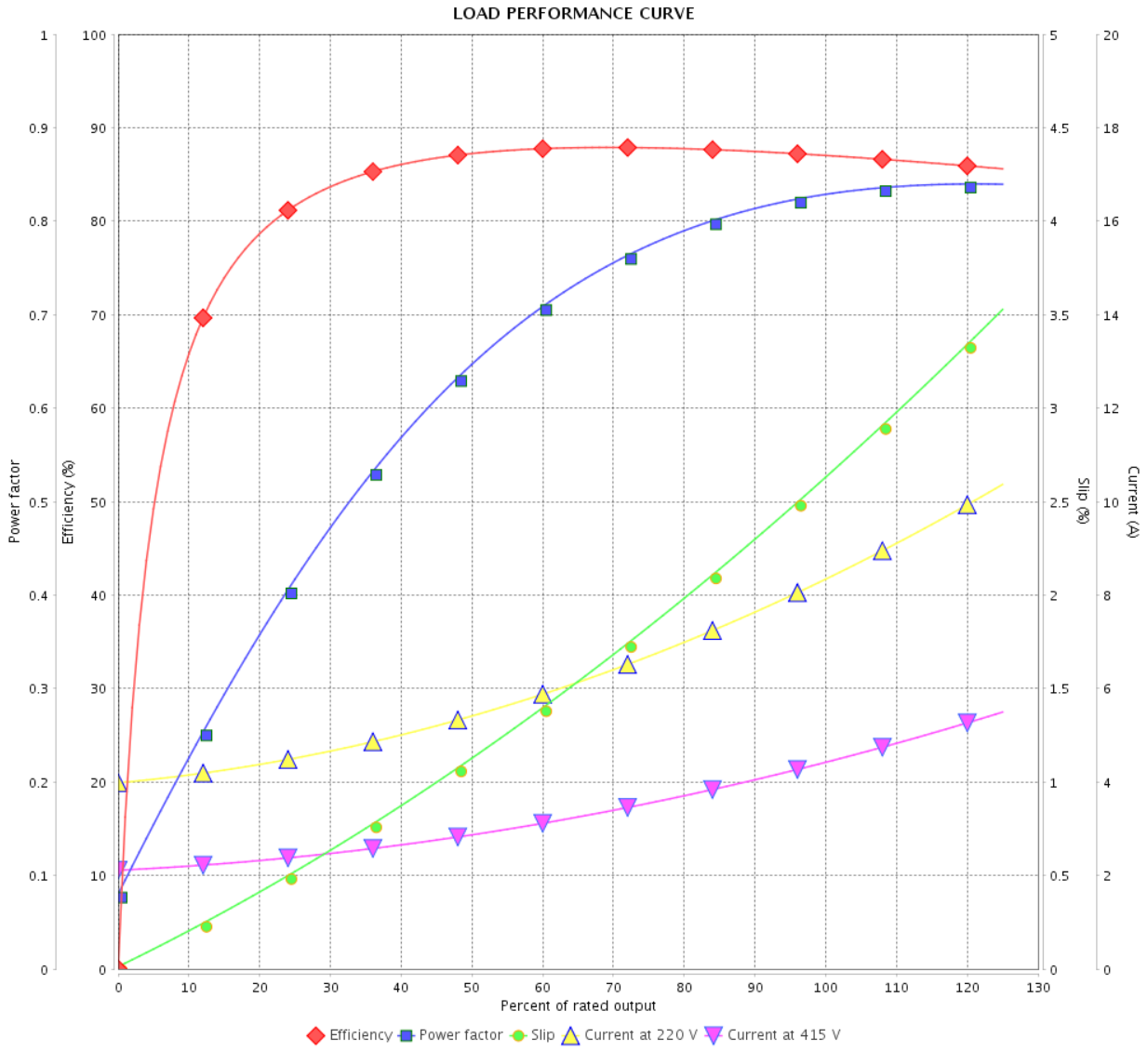

Performance	: 220/415 V 50 Hz 4P		
Rated current	: 8.30/4.40 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 1.49 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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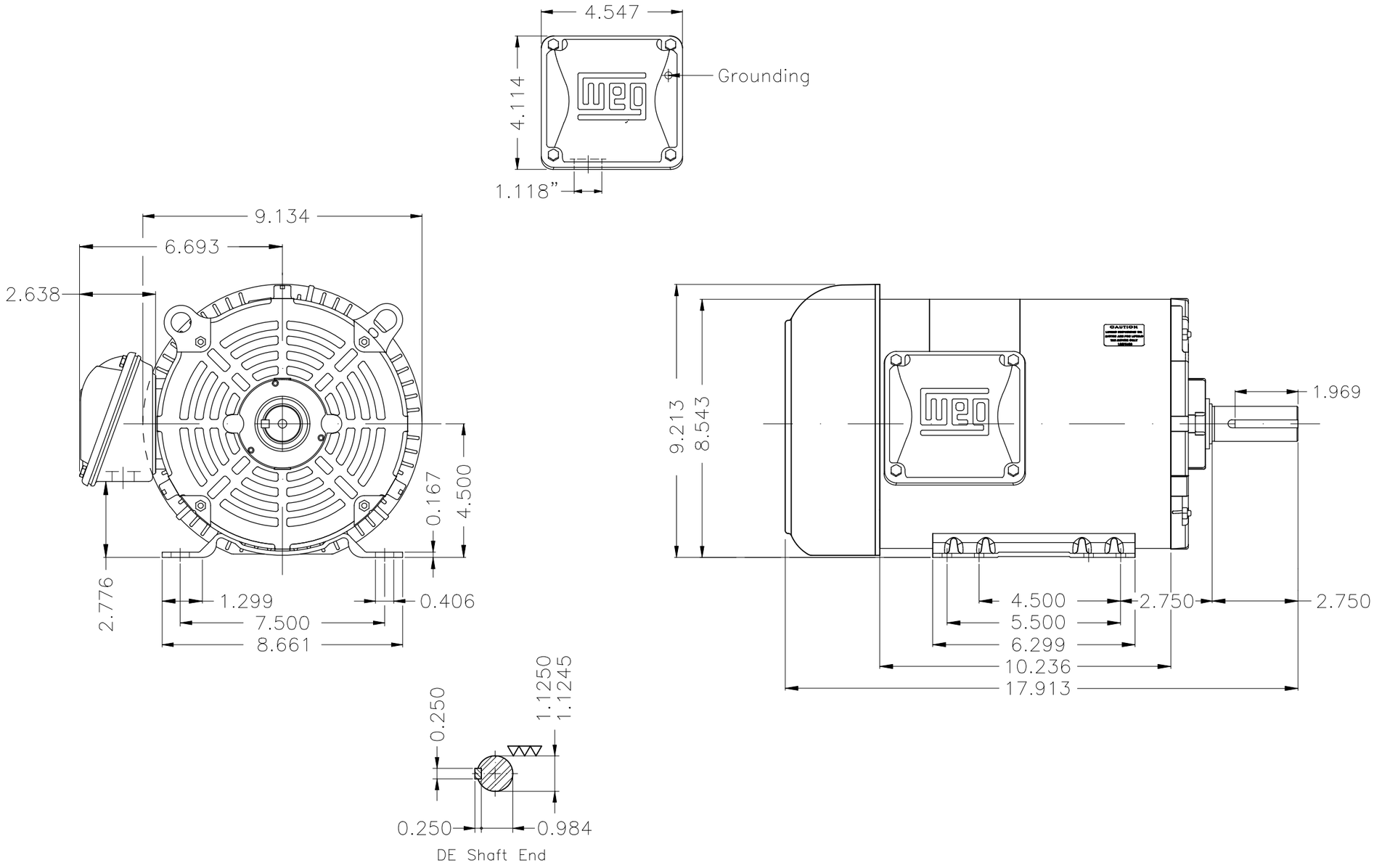

Color Munsell N 1 matte black

Painting plan 207N

Mounting F-1/B3R(D)

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

EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL NEMA PREM. EFF.	PREVIEW	
CHECKED		FRAME 182/4T IP55 TEFC	WDD	00
RELEASED				
REL. DATE		WMO Jaraguá do Sul Product Engineering	SHEET	1 / 1

3 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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