DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Standard Efficiency Three-Phase	Product code :	12894789

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]	: 15.1 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0044 kgm²
Design	: A		

Output [HP]		1.5	1.5	1.5
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		4.46/2.23	5.16/2.58	4.77/2.53
L. R. Amperes [A]		33.5/16.7	31.0/15.5	30.5/16.2
LRC [A]		7.5x(Code K)	6.0x(Code H)	6.4x(Code J)
No load current [A]		3.00/1.50	2.91/1.45	3.17/1.68
Rated speed [RPM]		1750	1430	1440
Slip [%]		2.78	4.67	4.00
Rated torque [kgfm]		0.622	0.761	0.756
Locked rotor torque [%]		250	190	210
Breakdown torque [%]		300	220	250
Service factor			1.00	1.00
Temperature rise		80 K	105 K	105 K
Locked rotor time		16s (cold) 9s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level[2]		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%	75.4	78.0	75.0
	50%	77.0	77.4	75.3
	75%	80.0	79.1	78.5
	100%	81.5	77.9	78.3
Power Factor	25%	0.30	0.36	0.32
	50%	0.54	0.62	0.57
	75%	0.67	0.76	0.71
	100%	0.76	0.83	0.80

		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 : 53 kgf

Max. compression : 68 kgf

Notes

USABLE @208V 4.93A SF 1.00 SFA 4.93A

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

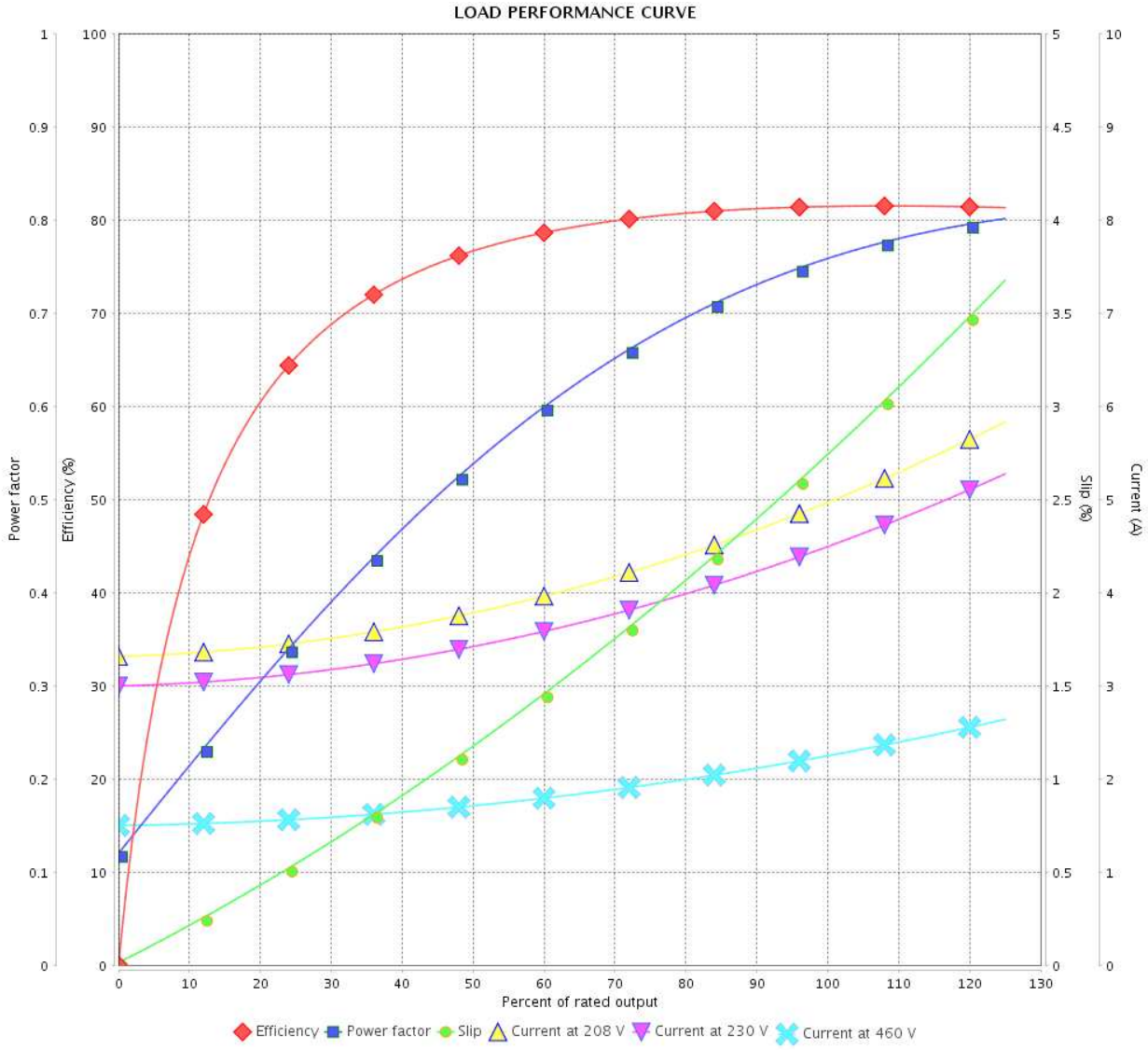
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Standard Efficiency Three-Phase	Product code :	12894789



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 4.46/2.23 A	Moment of inertia (J)	: 0.0044 kgm²
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 0.622 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	:
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: A

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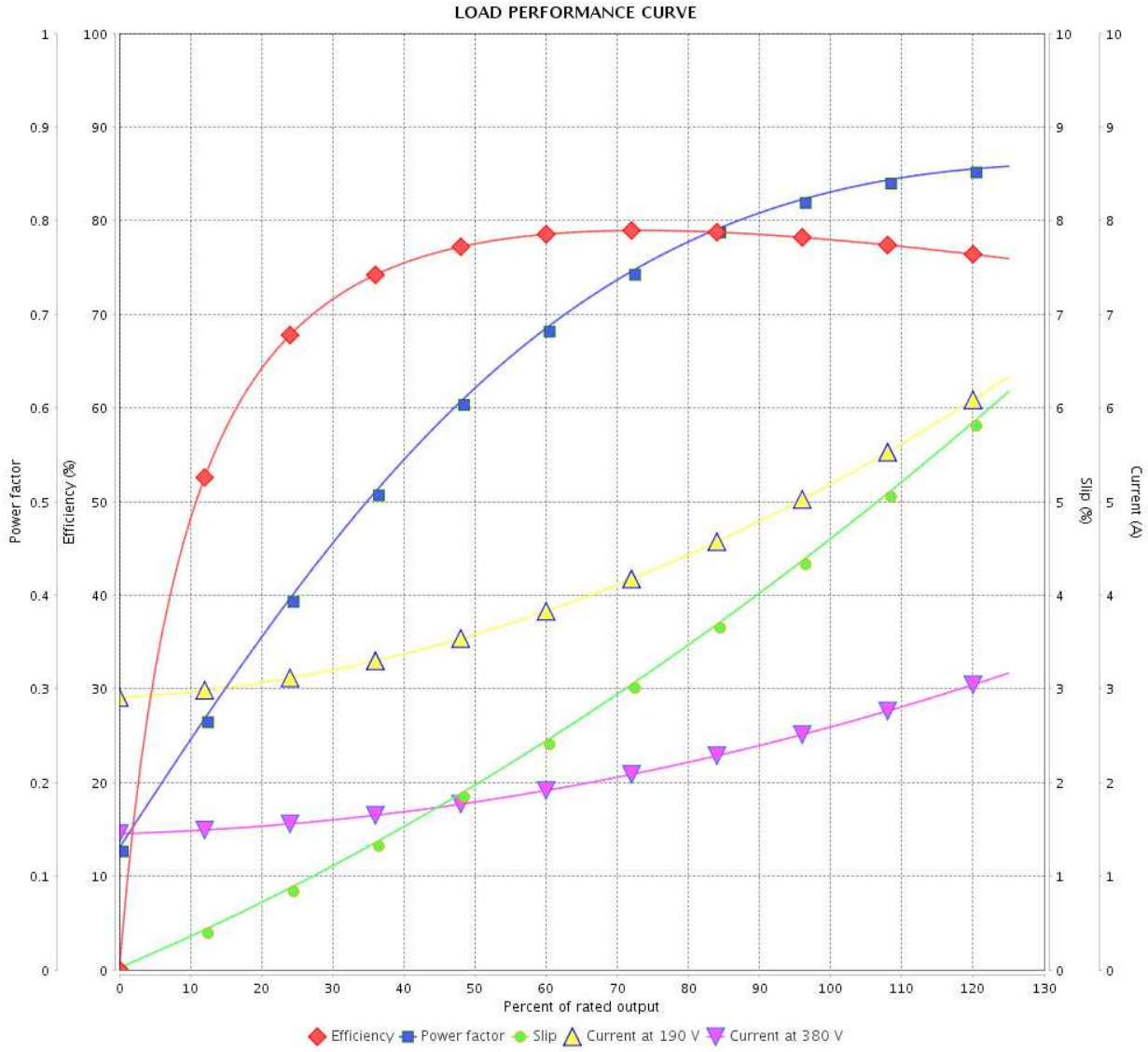
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Standard Efficiency Three-Phase	Product code :	12894789



Performance	: 190/380 V 50 Hz 4P		
Rated current	: 5.16/2.58 A	Moment of inertia (J)	: 0.0044 kgm²
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 0.761 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 1430 rpm	Design	: A

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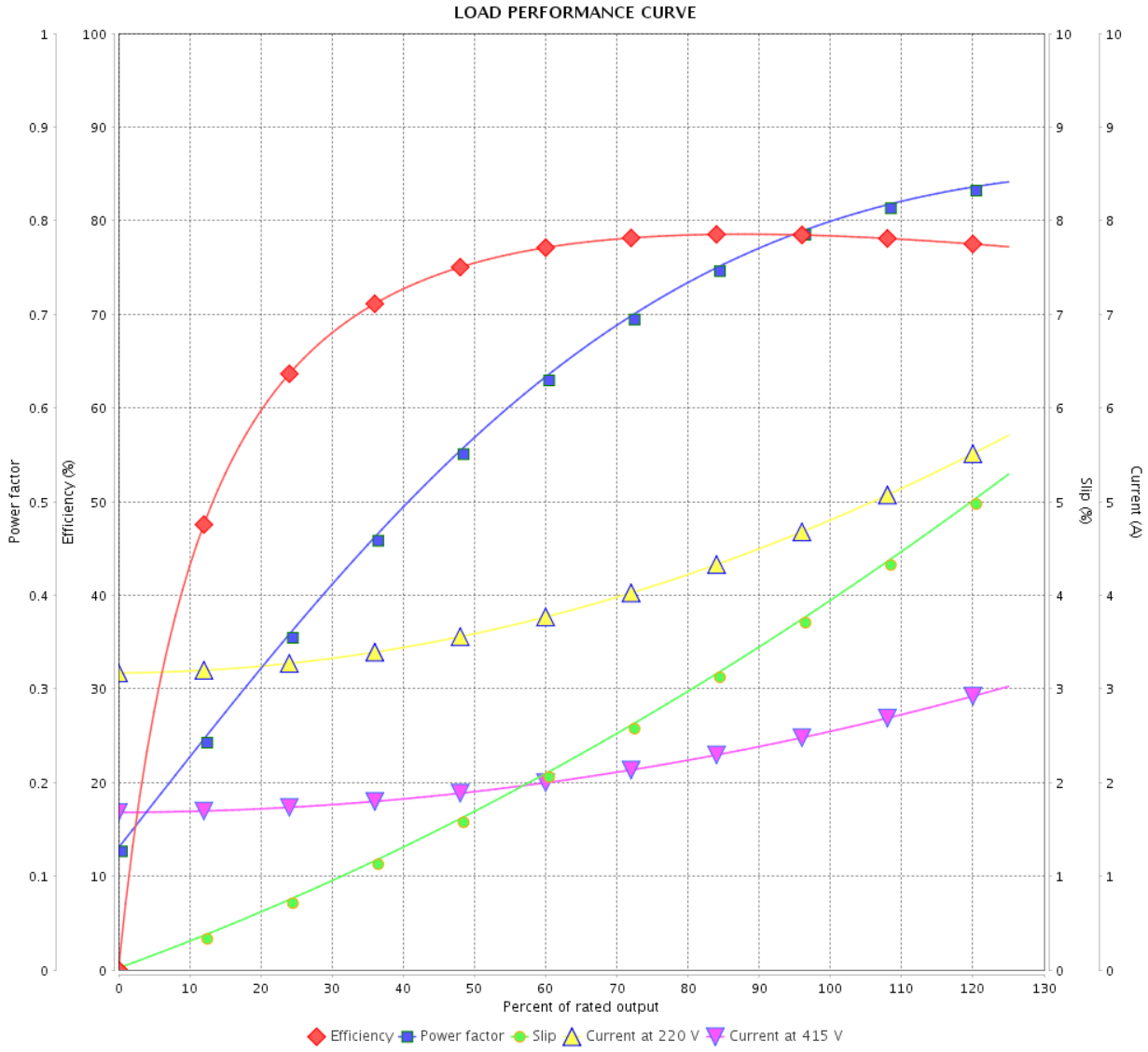
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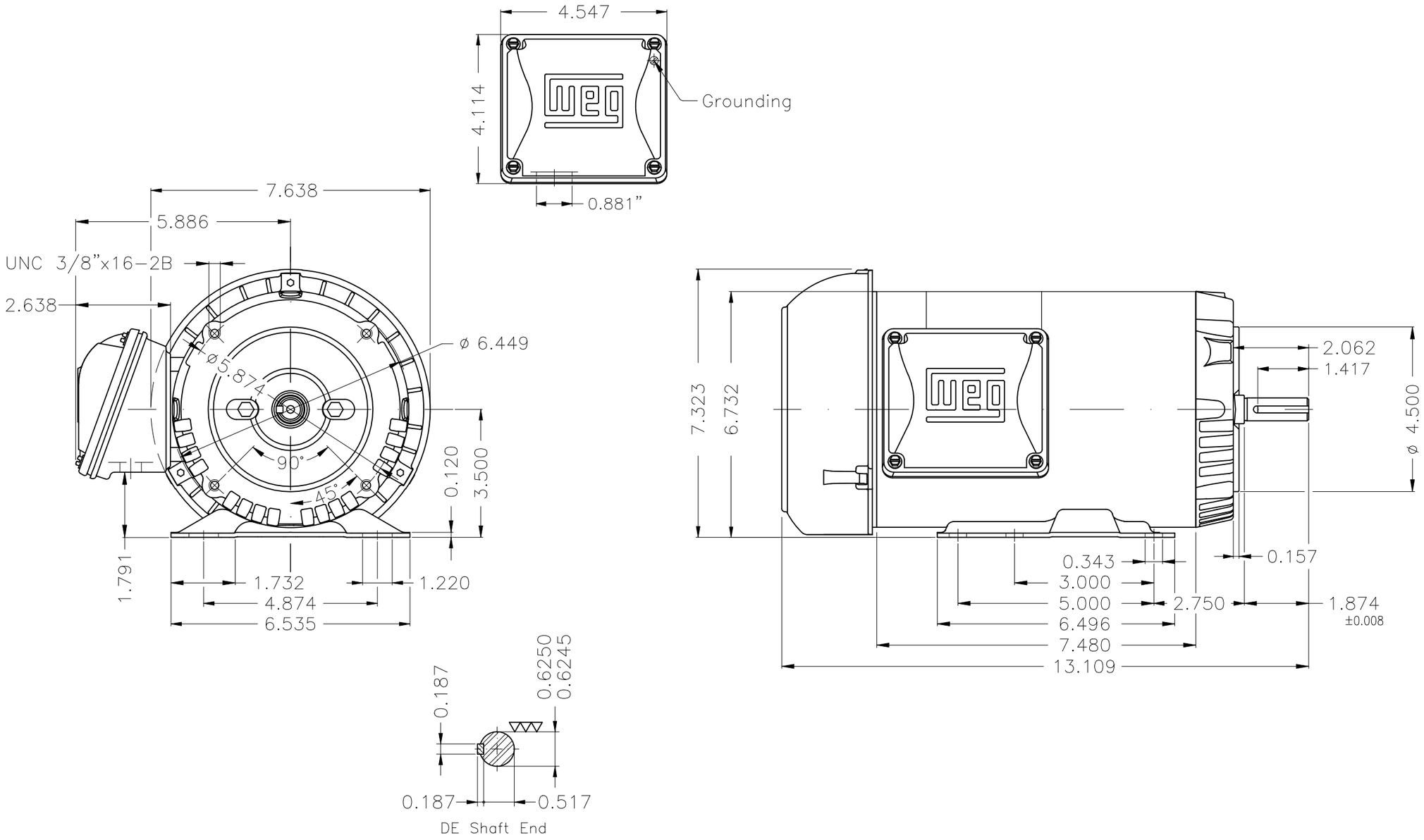


Performance	: 220/415 V 50 Hz 4P		
Rated current	: 4.77/2.53 A	Moment of inertia (J)	: 0.0044 kgm²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.756 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 1440 rpm	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

1.5 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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