DATA SHEET

Single Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Single-Phase	Product code :	14009345

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]	: 23.9 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0040 kgm²
Design	: L		

Output [HP]		3
Poles		2
Frequency [Hz]		60
Rated voltage [V]		115/208-230
Rated current [A]		25.4/14.0-12.7
L. R. Amperes [A]		203/112-102
LRC [A]		8.0x(Code J)
No load current [A]		8.00/3.45-4.00
Rated speed [RPM]		3490
Slip [%]		3.06
Rated torque [kgfm]		0.624
Locked rotor torque [%]		210
Breakdown torque [%]		250
Service factor		
Temperature rise		80 K
Locked rotor time		10s (cold) 6s (hot)
Noise level[2]		68.0 dB(A)
Efficiency (%)	25%	
	50%	76.0
	75%	79.0
	100%	80.0
Power Factor	25%	
	50%	0.86
	75%	0.92
	100%	0.94

		Drive end	Non drive end
Bearing type	:	6204 ZZ	6202 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 37 kgf

Max. compression : 61 kgf

Notes

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

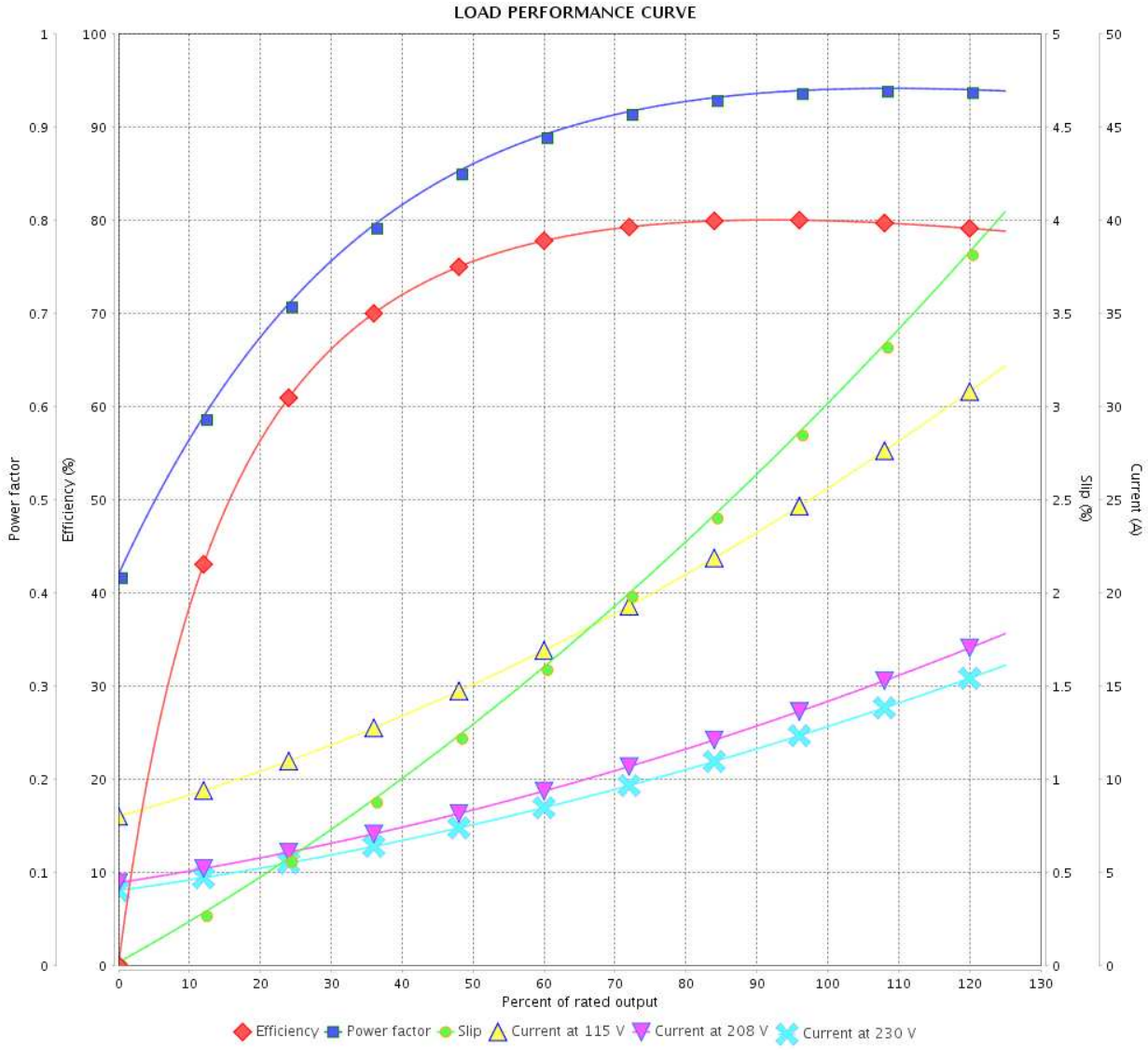
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LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Single-Phase	Product code :	14009345

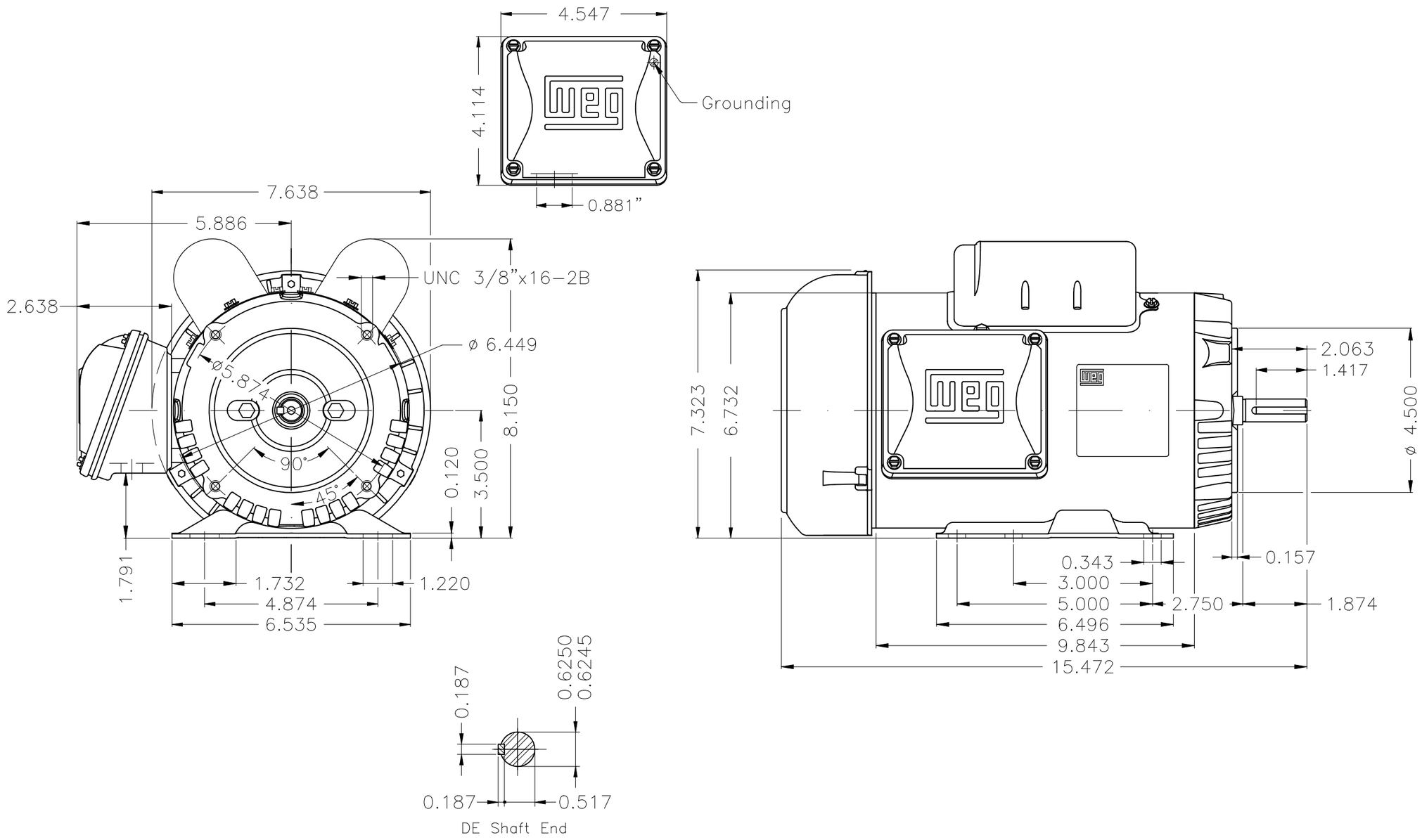


Performance	: 115/208-230 V 60 Hz 2P		
Rated current	: 25.4/14.0-12.7 A	Moment of inertia (J)	: 0.0040 kgm²
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 0.624 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	:
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3490 rpm	Design	: L

Rev.	Changes Summary	Performed	Checked	Date

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Color Munsell N 1 matte black

Painting plan 207N

Mounting B34D

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

EXECUTED	HYBRISUSER	SINGLE PH. MOTOR ROLLED STEEL	PREVIEW	
CHECKED		FRAME 56HC IP55 TEFC	WDD	00
RELEASED				
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET	1 / 1

3 HP 02 Poles 60 Hz

A

Dimensions in inches

XME A3

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