DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13392705

Frame	: 254/6JM	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	: 87.9 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0367 kgm²
Design	: B		

Output [HP]		15
Poles		2
Frequency [Hz]		60
Rated voltage [V]		575
Rated current [A]		13.9
L. R. Amperes [A]		94.7
LRC [A]		6.8x(Code G)
No load current [A]		5.20
Rated speed [RPM]		3525
Slip [%]		2.08
Rated torque [kgfm]		3.09
Locked rotor torque [%]		200
Breakdown torque [%]		300
Service factor		1.15
Temperature rise		80 K
Locked rotor time		25s (cold) 14s (hot)
Noise level²		75.0 dB(A)
Efficiency (%)	25%	89.2
	50%	89.5
	75%	91.0
	100%	91.0
Power Factor	25%	0.47
	50%	0.73
	75%	0.83
	100%	0.87

		Drive end	Non drive end
Bearing type	:	6309 Z C3	6208 Z C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	15797 h	20000 h
Lubricant amount	:	13 g	8 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 101 kgf

Max. compression : 189 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.

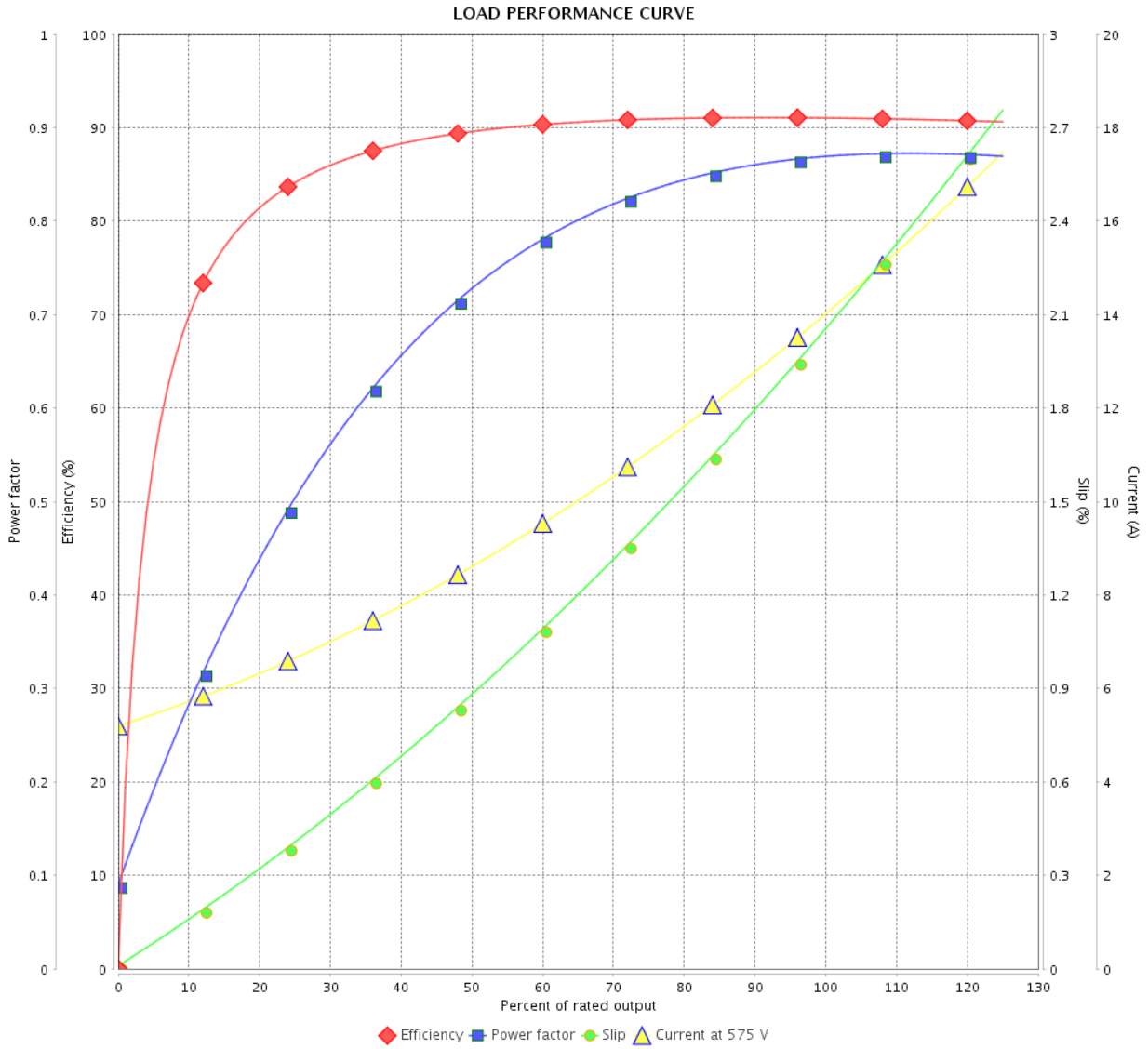
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	16/05/2022		1 / 2	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

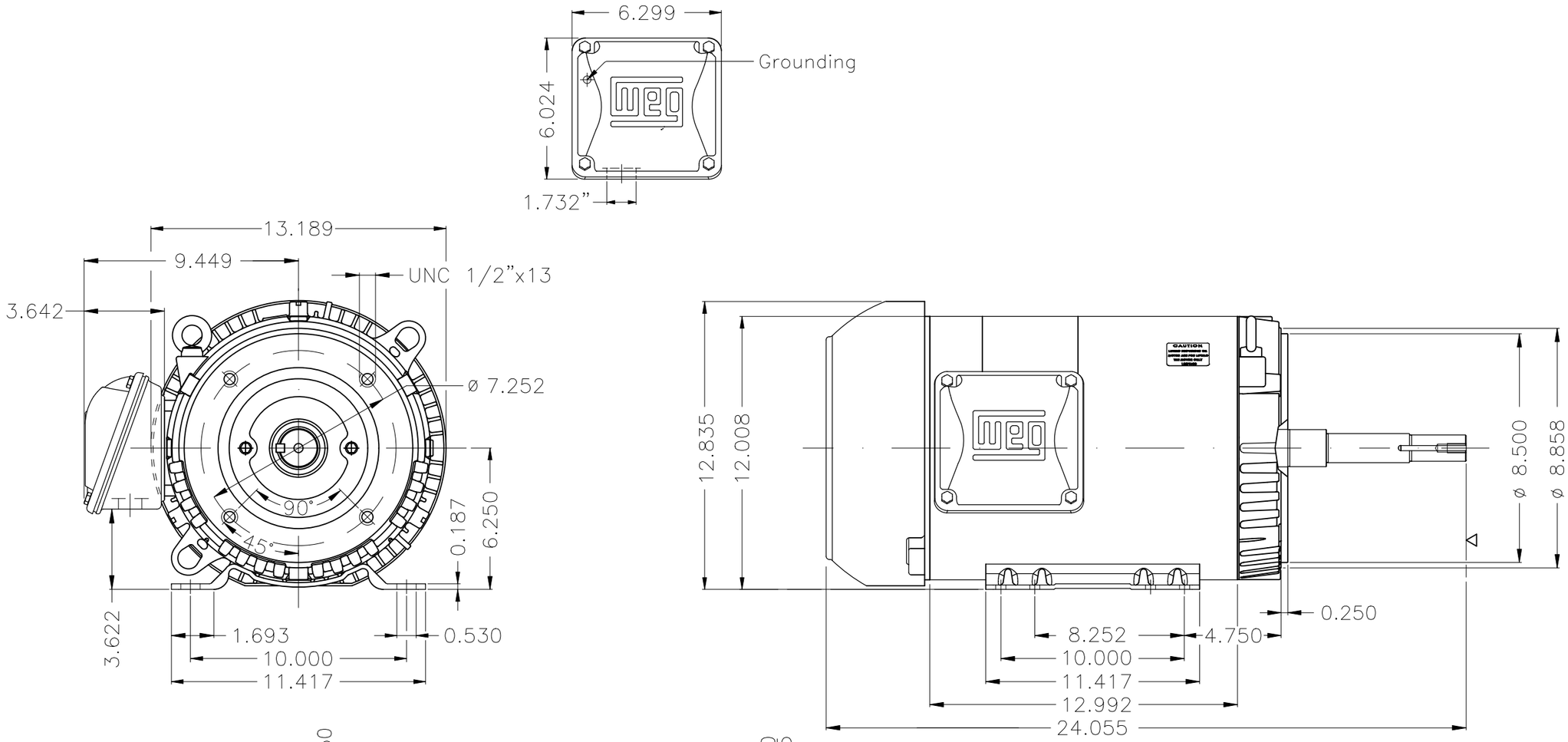
Customer	:		
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13392705

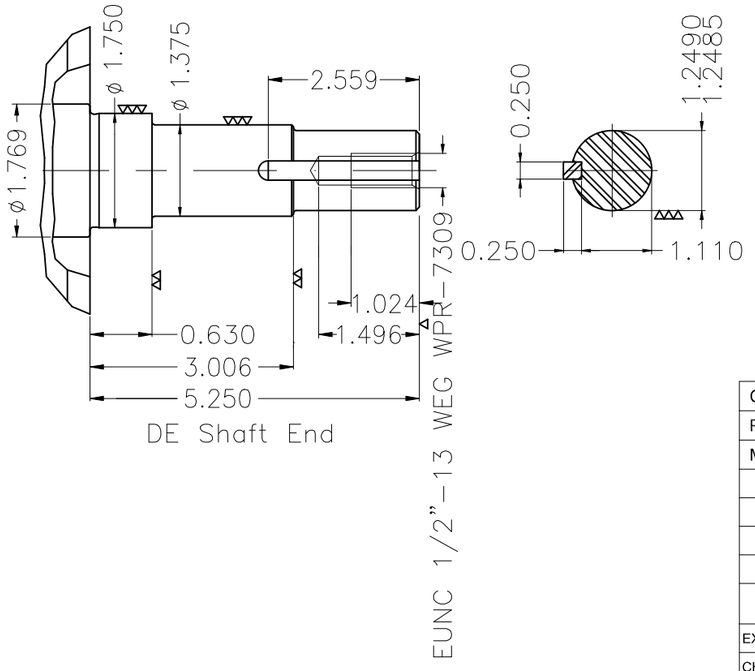


Performance	: 575 V 60 Hz 2P		
Rated current	: 13.9 A	Moment of inertia (J)	: 0.0367 kgm²
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 3.09 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3525 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	16/05/2022		2 / 2	





Color Munsell N 1 matte black							
Painting plan 207N							
Mounting B34D							
			HYBRISUSER				00
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER

EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL JM NEMA PREM. EFF.	PREVIEW	
CHECKED		FRAME 254/6JM IP55 TEFC	WDD	00
RELEASED				
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET	1 / 1

15 HP 02 Poles 60 Hz

A

Dimensions in inches

XME A3