DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	14808417

Frame	: 143/5JM	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	: 19.2 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0046 kgm²
Design	: B		

Output [HP]		1.5
Poles		4
Frequency [Hz]		60
Rated voltage [V]		575
Rated current [A]		1.62
L. R. Amperes [A]		13.3
LRC [A]		8.2x(Code K)
No load current [A]		0.867
Rated speed [RPM]		1750
Slip [%]		2.78
Rated torque [kgfm]		0.622
Locked rotor torque [%]		270
Breakdown torque [%]		300
Service factor		1.15
Temperature rise		80 K
Locked rotor time		37s (cold) 21s (hot)
Noise level²		52.0 dB(A)
Efficiency (%)	25%	85.2
	50%	85.5
	75%	86.5
	100%	86.5
Power Factor	25%	0.35
	50%	0.59
	75%	0.72
	100%	0.79

		Drive end	Non drive end
Bearing type	:	6206 ZZ	6203 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 43 kgf

Max. compression : 63 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

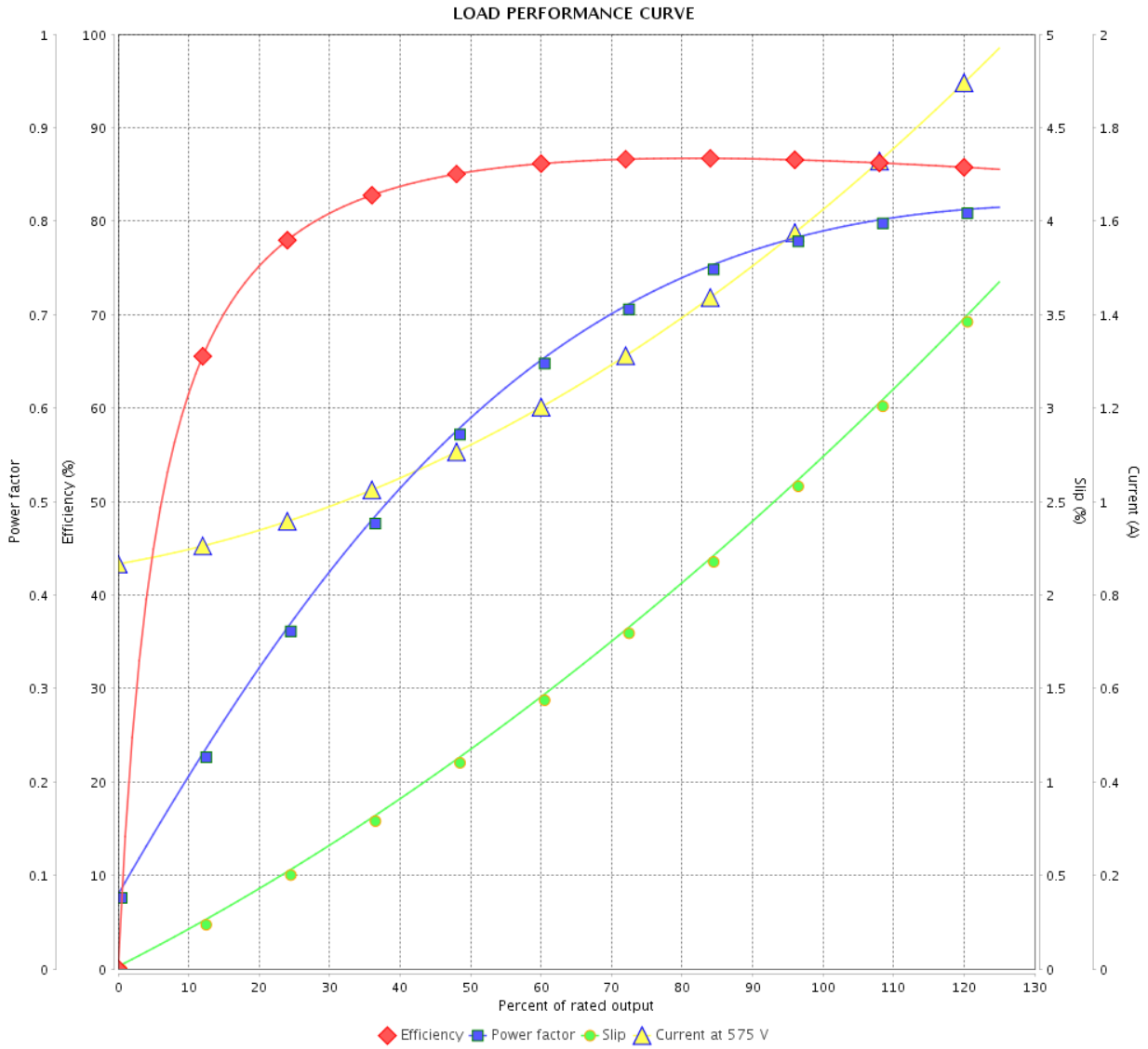
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	14808417

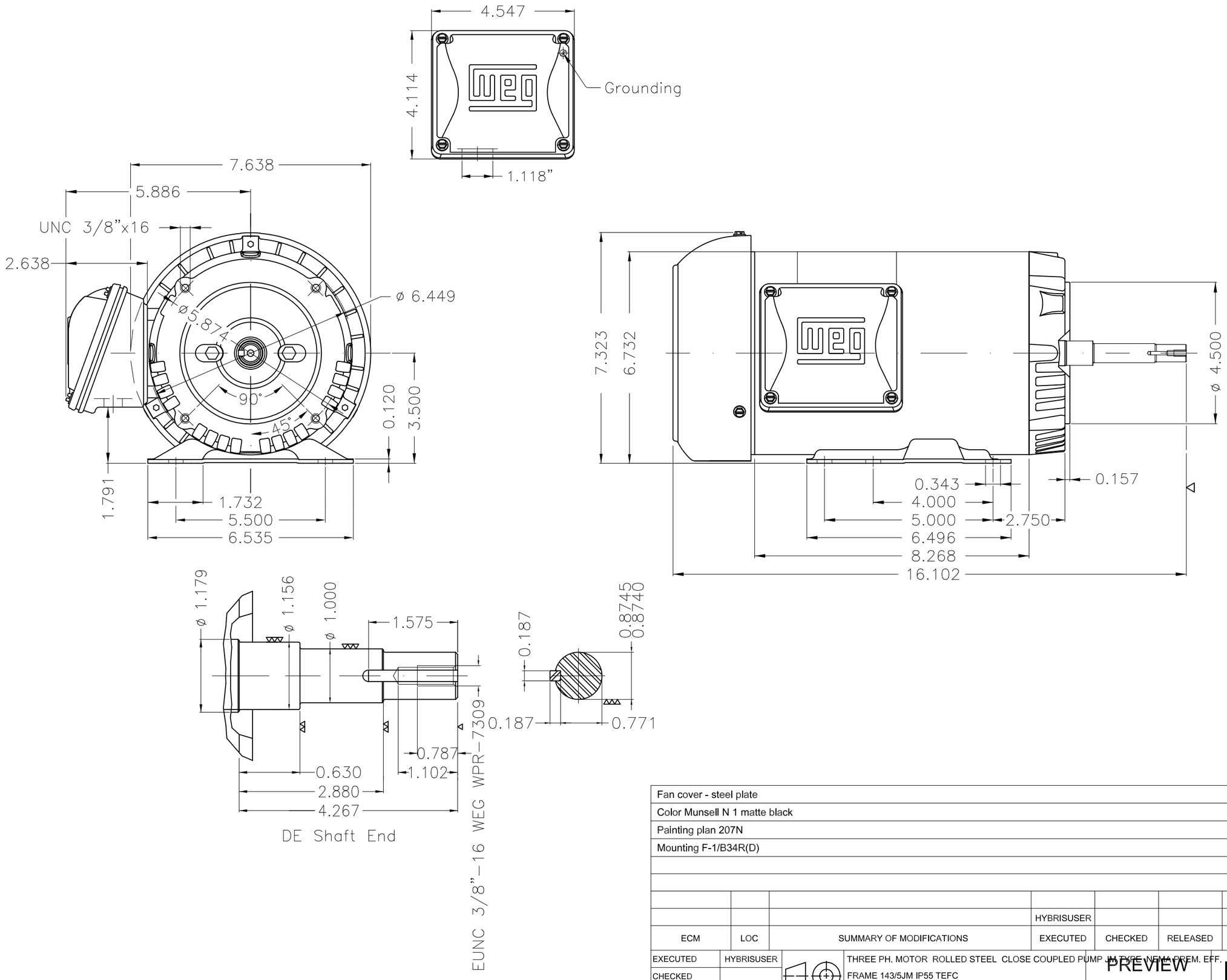


Performance	: 575 V 60 Hz 4P		
Rated current	: 1.62 A	Moment of inertia (J)	: 0.0046 kgm²
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 0.622 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

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

Fan cover - steel plate
Color Munsell N 1 matte black
Painting plan 207N
Mounting F-1/B34R(D)

EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL CLOSE COUPLED PUMP JM TYPE NEMA PREM. EFF.	PREVIEW
CHECKED		FRAME 143/5JM IP55 TEFC	WDD 00
RELEASED			
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

1.5 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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