DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13180600

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	: 18.3 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0046 kgm²
Design	: B		

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]		4.04/2.02	4.82/2.41	4.38/2.32
L. R. Amperes [A]		33.1/16.6	29.4/14.7	29.3/15.5
LRC [A]		8.2x(Code K)	6.1x(Code H)	6.7x(Code J)
No load current [A]		2.17/1.08	2.13/1.07	2.20/1.17
Rated speed [RPM]		1750	1420	1430
Slip [%]		2.78	5.33	4.67
Rated torque [kgfm]		0.622	0.767	0.761
Locked rotor torque [%]		270	210	240
Breakdown torque [%]		300	250	280
Service factor			1.15	1.15
Temperature rise		80 K	105 K	80 K
Locked rotor time		37s (cold) 21s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level²		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%	85.2	86.1	85.0
	50%	85.5	84.7	84.2
	75%	86.5	84.7	84.9
	100%	86.5	82.7	83.6
Power Factor	25%	0.35	0.41	0.37
	50%	0.59	0.67	0.62
	75%	0.72	0.78	0.75
	100%	0.79	0.84	0.82

		Drive end	Non drive end
Bearing type	:	6206 ZZ	6203 ZZ
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 51 kgf

Max. compression : 70 kgf

Notes

USABLE @208V 4.47A SF 1.00 SFA 4.47A

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

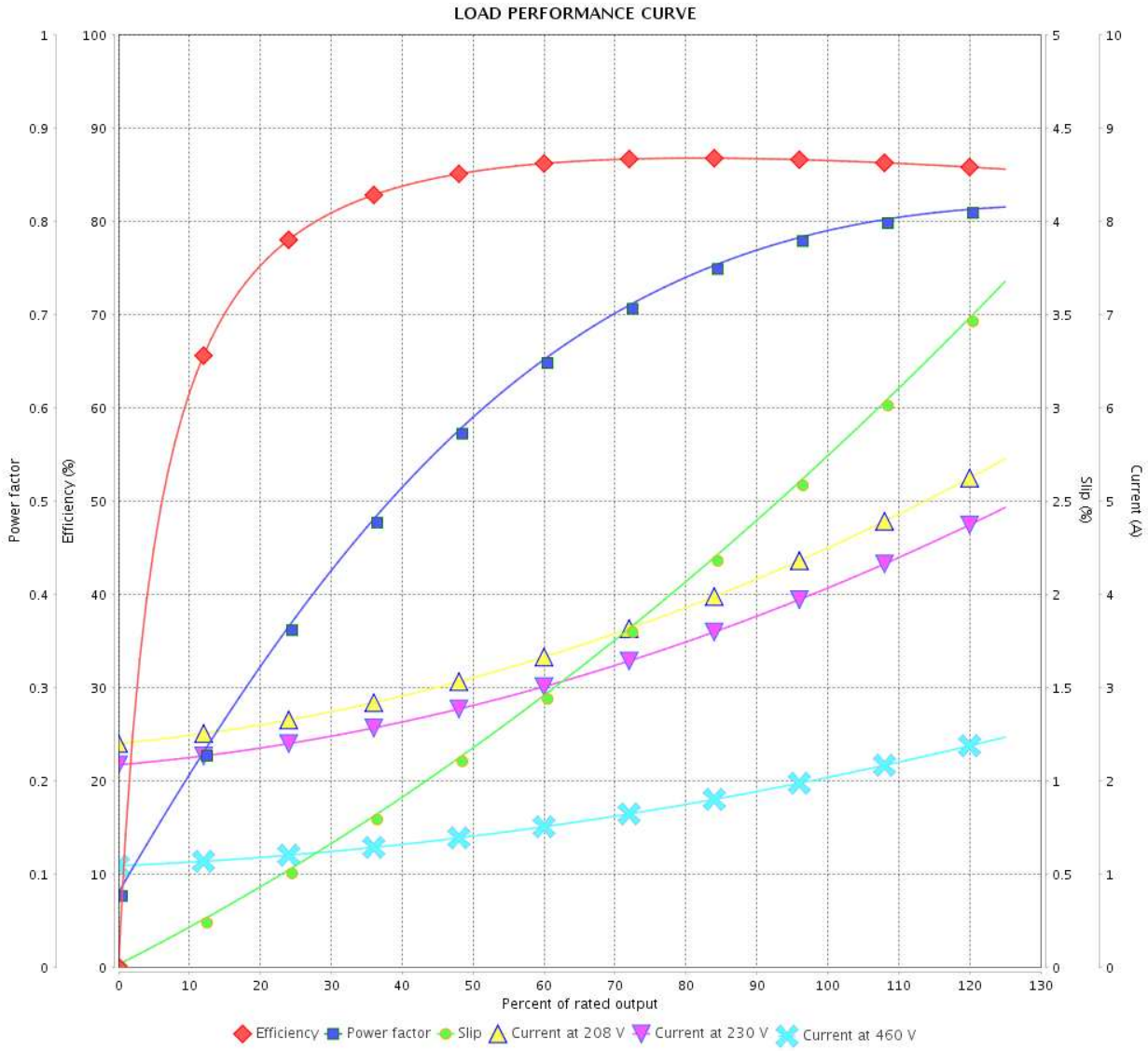
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13180600



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 4.04/2.02 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	:
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

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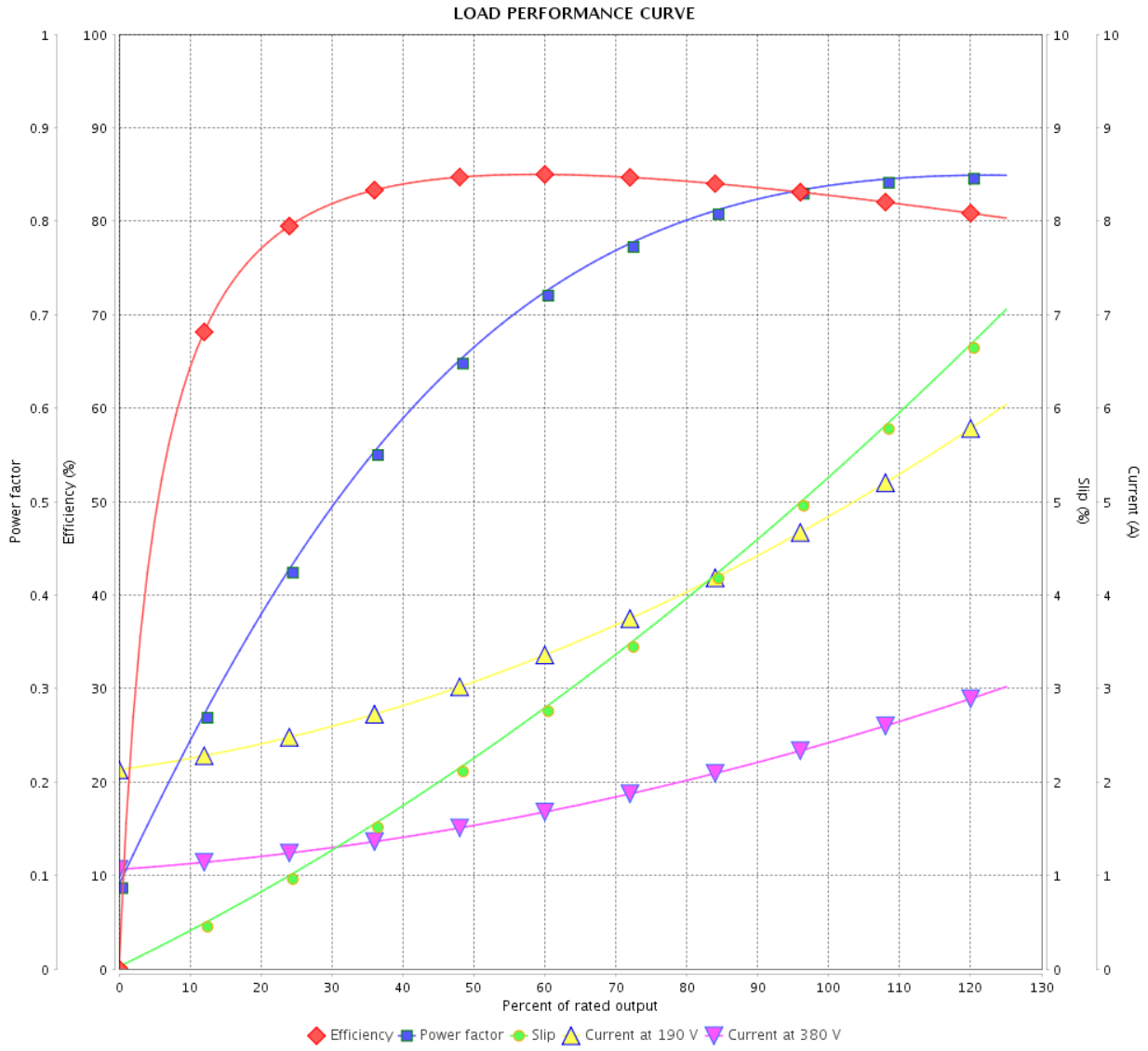
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13180600



Performance	: 190/380 V 50 Hz 4P		
Rated current	: 4.82/2.41 A	Moment of inertia (J)	: 0.0046 kgm²
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 0.767 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 1420 rpm	Design	: B

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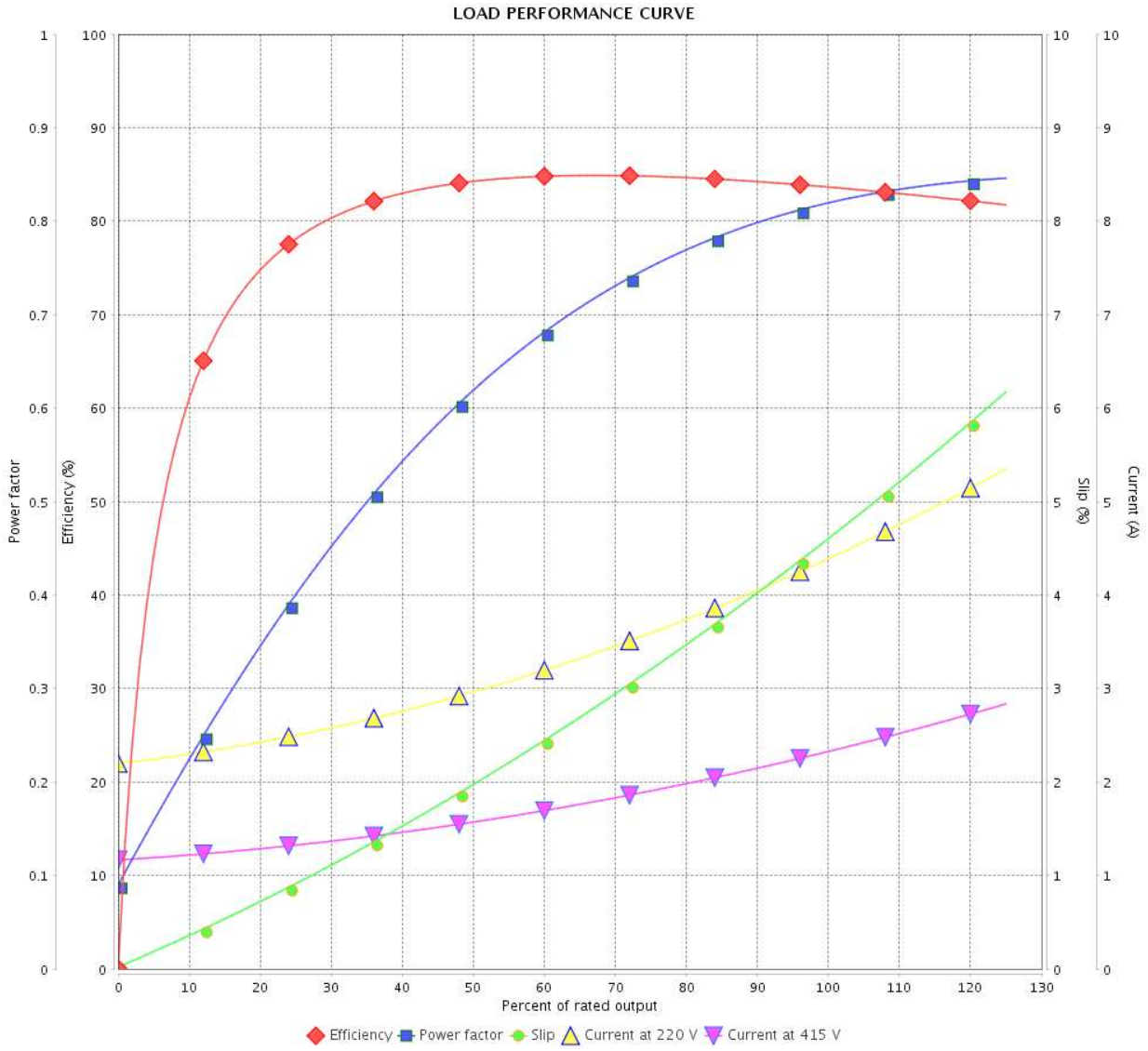
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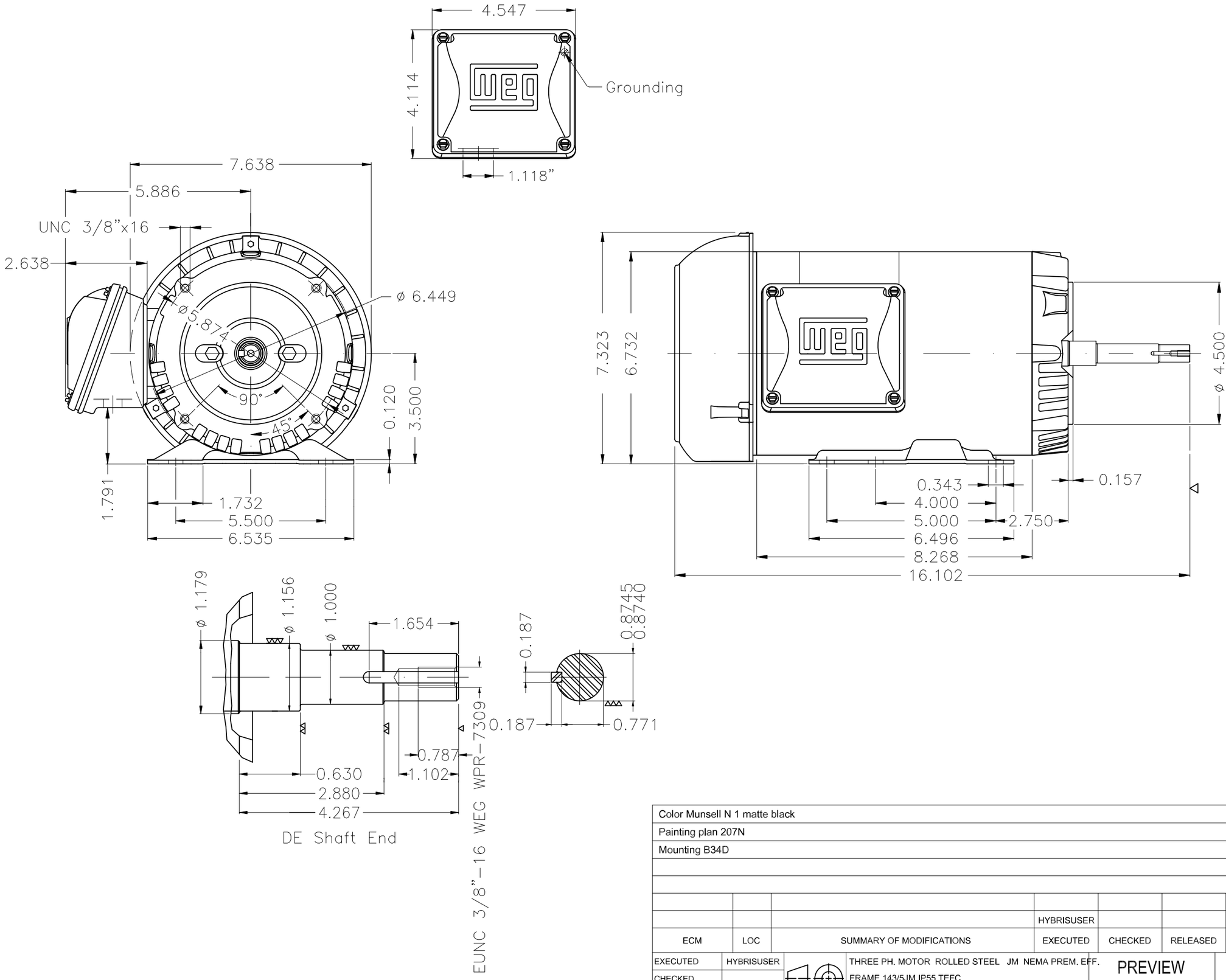


Performance	: 220/415 V 50 Hz 4P		
Rated current	: 4.38/2.32 A	Moment of inertia (J)	: 0.0046 kgm²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 0.761 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1430 rpm	Design	: B

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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	THREE PH. MOTOR ROLLED STEEL JM 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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