DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13374122

Frame	: 182/4JM	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	: 34.8 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0118 kgm²
Design	: B		

Output [HP]		1.5	1.5	1.5
Poles		6	6	6
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		4.44/2.22	5.18/2.59	4.73/2.51
L. R. Amperes [A]		30.6/15.3	29.5/14.8	29.8/15.8
LRC [A]		6.9x(Code K)	5.7x(Code H)	6.3x(Code J)
No load current [A]		2.73/1.36	2.69/1.34	2.74/1.46
Rated speed [RPM]		1170	955	960
Slip [%]		2.50	4.50	4.00
Rated torque [kgfm]		0.930	1.14	1.13
Locked rotor torque [%]		240	190	220
Breakdown torque [%]		340	260	290
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		99s (cold) 55s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level²		52.0 dB(A)	50.0 dB(A)	50.0 dB(A)
Efficiency (%)	25%	82.8	84.4	83.2
	50%	84.0	84.2	83.5
	75%	86.5	85.6	85.5
	100%	87.5	84.9	85.4
Power Factor	25%	0.29	0.34	0.31
	50%	0.50	0.58	0.54
	75%	0.63	0.70	0.66
	100%	0.71	0.76	0.74

		Drive end	Non drive end
Bearing type	:	6207 ZZ	6205 ZZ
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 51 kgf

Max. compression : 86 kgf

Notes

USABLE @208V 4.91A SF 1.00 SFA 4.91A

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

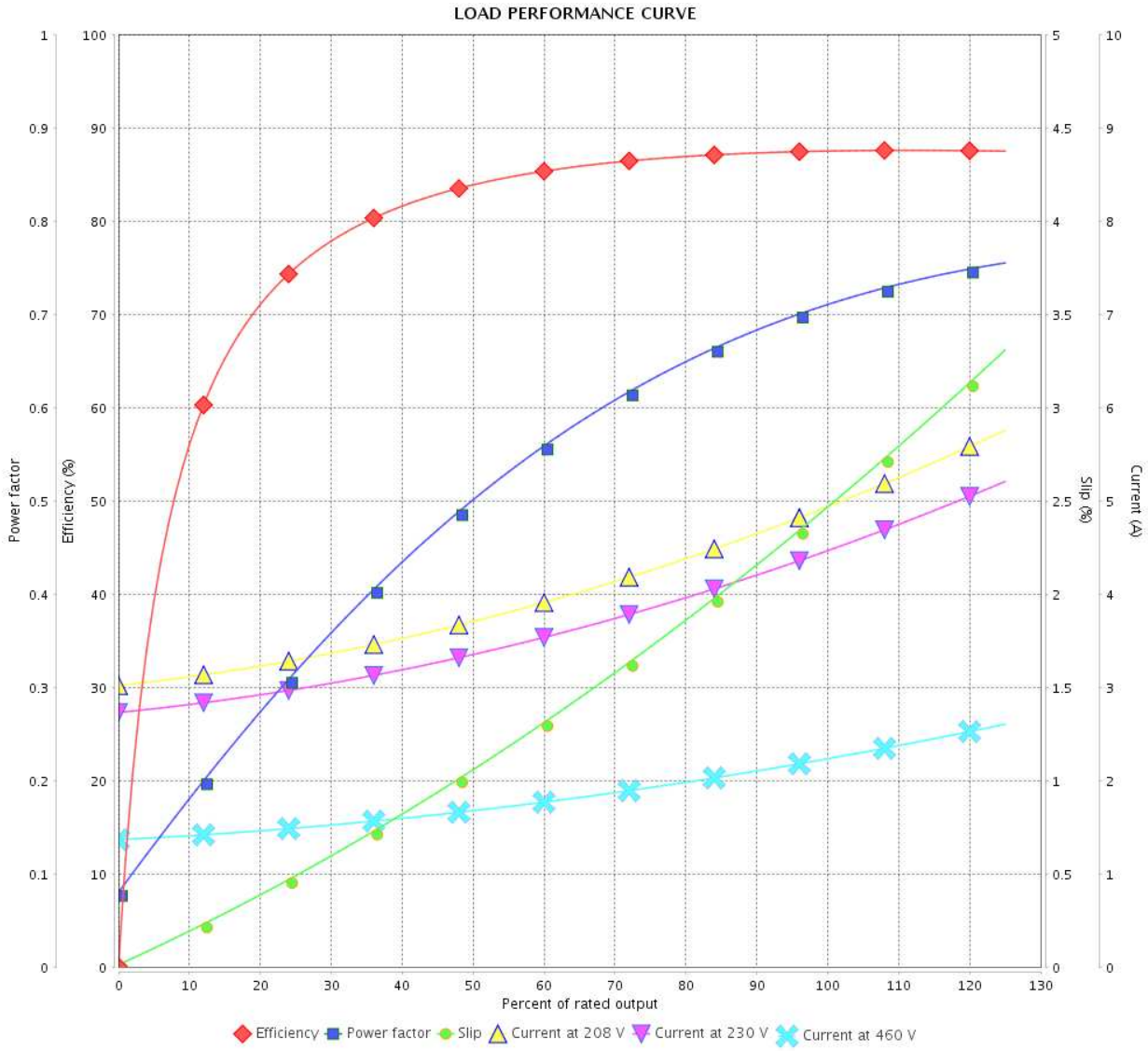
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13374122



Performance	: 230/460 V 60 Hz 6P		
Rated current	: 4.44/2.22 A	Moment of inertia (J)	: 0.0118 kgm²
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 0.930 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1170 rpm	Design	: B

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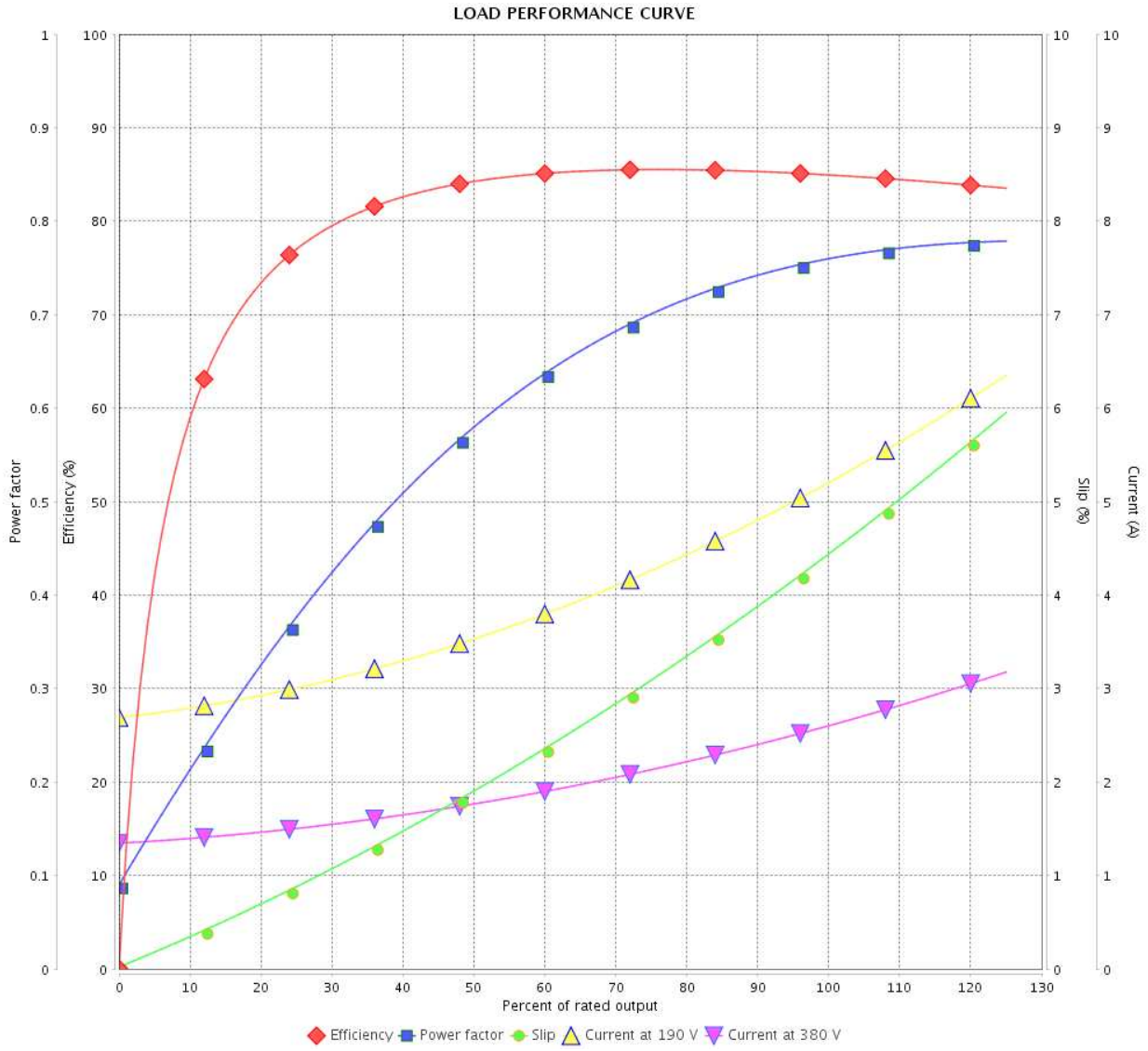
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13374122



Performance	: 190/380 V 50 Hz 6P		
Rated current	: 5.18/2.59 A	Moment of inertia (J)	: 0.0118 kgm²
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 1.14 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 955 rpm	Design	: B

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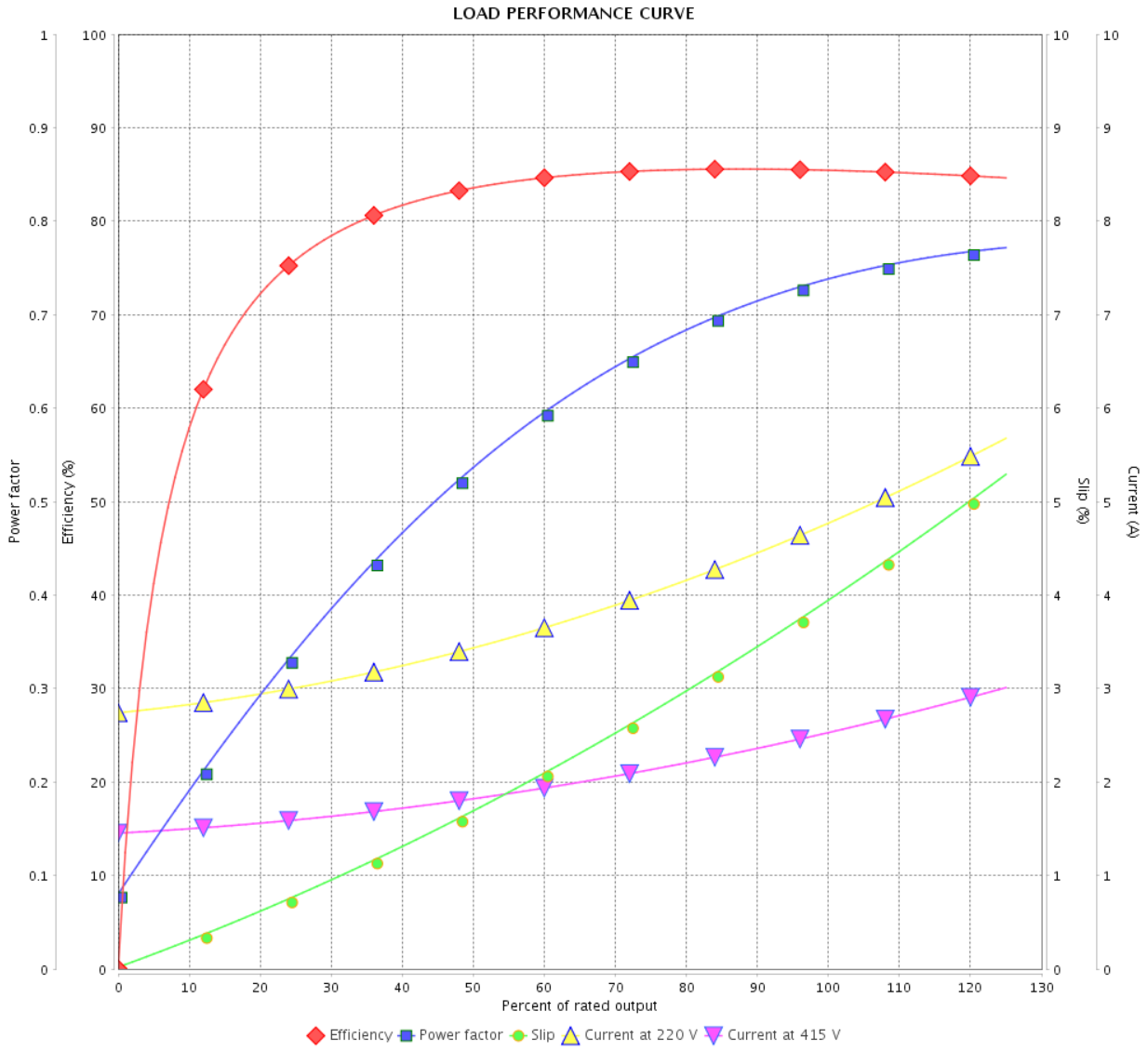
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Three Phase Induction Motor - Squirrel Cage

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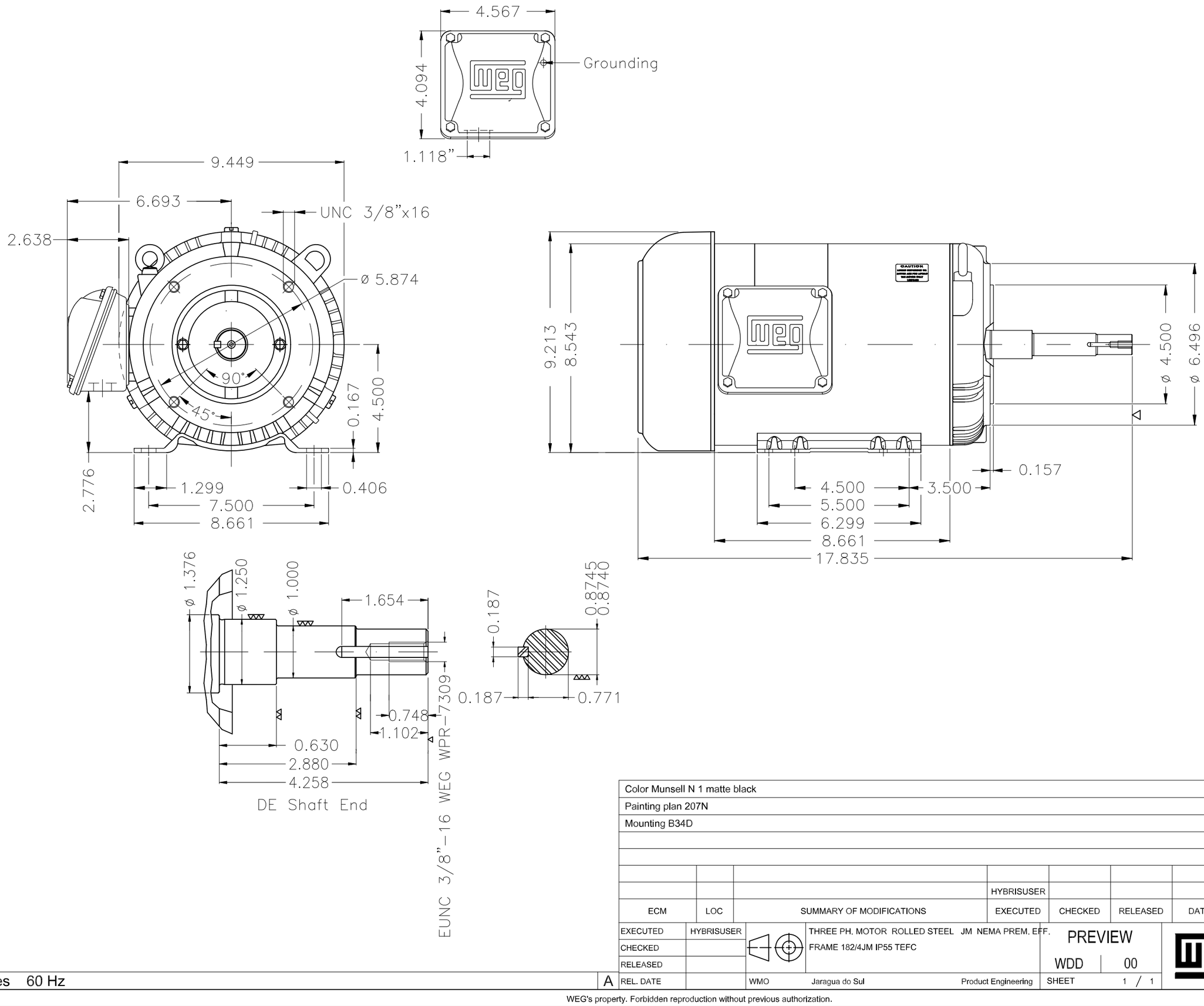


Performance	: 220/415 V 50 Hz 6P		
Rated current	: 4.73/2.51 A	Moment of inertia (J)	: 0.0118 kgm²
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 1.13 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 960 rpm	Design	: 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. FRAME 182/4JM IP55 TEFC	PREVIEW		
CHECKED			WDD	00	
RELEASED					
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET	1 / 1	

1.5 HP 06 Poles 60 Hz

A

Dimensions in inches

XME A3

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