DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	13393207

Frame	: 254/6JP	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	: 104 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0904 kgm²
Design	: B		

Output [HP]		15	15	15
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		36.4/18.2	43.8/21.9	39.4/20.9
L. R. Amperes [A]		237/118	241/120	240/127
LRC [A]		6.5x(Code G)	5.5x(Code F)	6.1x(Code G)
No load current [A]		17.3/8.65	17.1/8.53	17.5/9.28
Rated speed [RPM]		1770	1455	1460
Slip [%]		1.67	3.00	2.67
Rated torque [kgfm]		6.15	7.48	7.46
Locked rotor torque [%]		250	190	210
Breakdown torque [%]		300	229	260
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	105 K
Locked rotor time		34s (cold) 19s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level²		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%	90.8	92.5	91.9
	50%	91.0	91.5	91.2
	75%	92.4	91.2	91.4
	100%	92.4	89.9	90.4
Power Factor	25%	0.39	0.45	0.41
	50%	0.64	0.71	0.67
	75%	0.76	0.81	0.78
	100%	0.82	0.85	0.84

		Drive end	Non drive end
Bearing type	:	6309 Z C3	6208 Z C3
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	8 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 253 kgf

Max. compression : 357 kgf

Notes

USABLE @208V 40.2A SF 1.00 SFA 40.2A

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

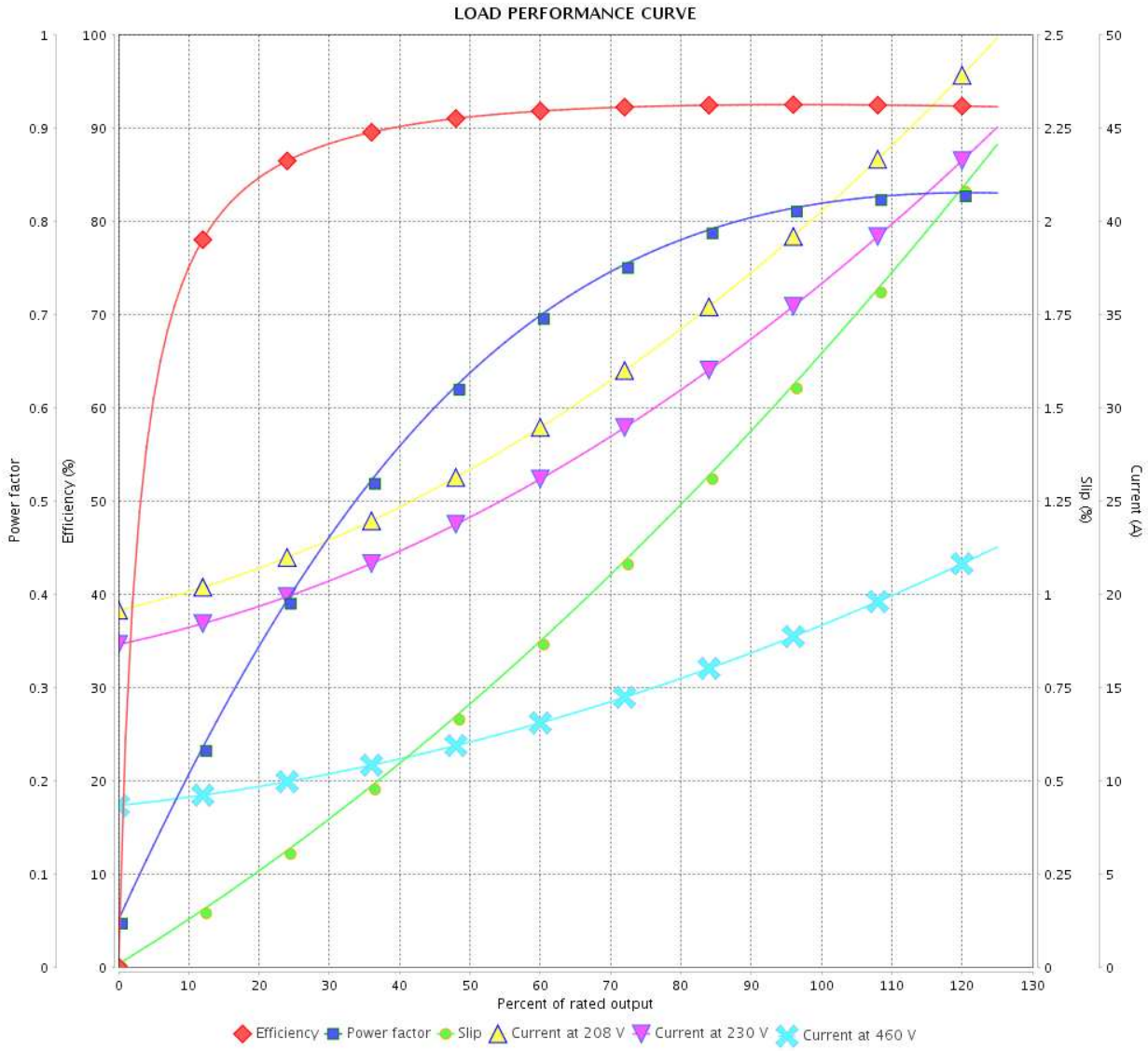
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	13393207



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 36.4/18.2 A	Moment of inertia (J)	: 0.0904 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 6.15 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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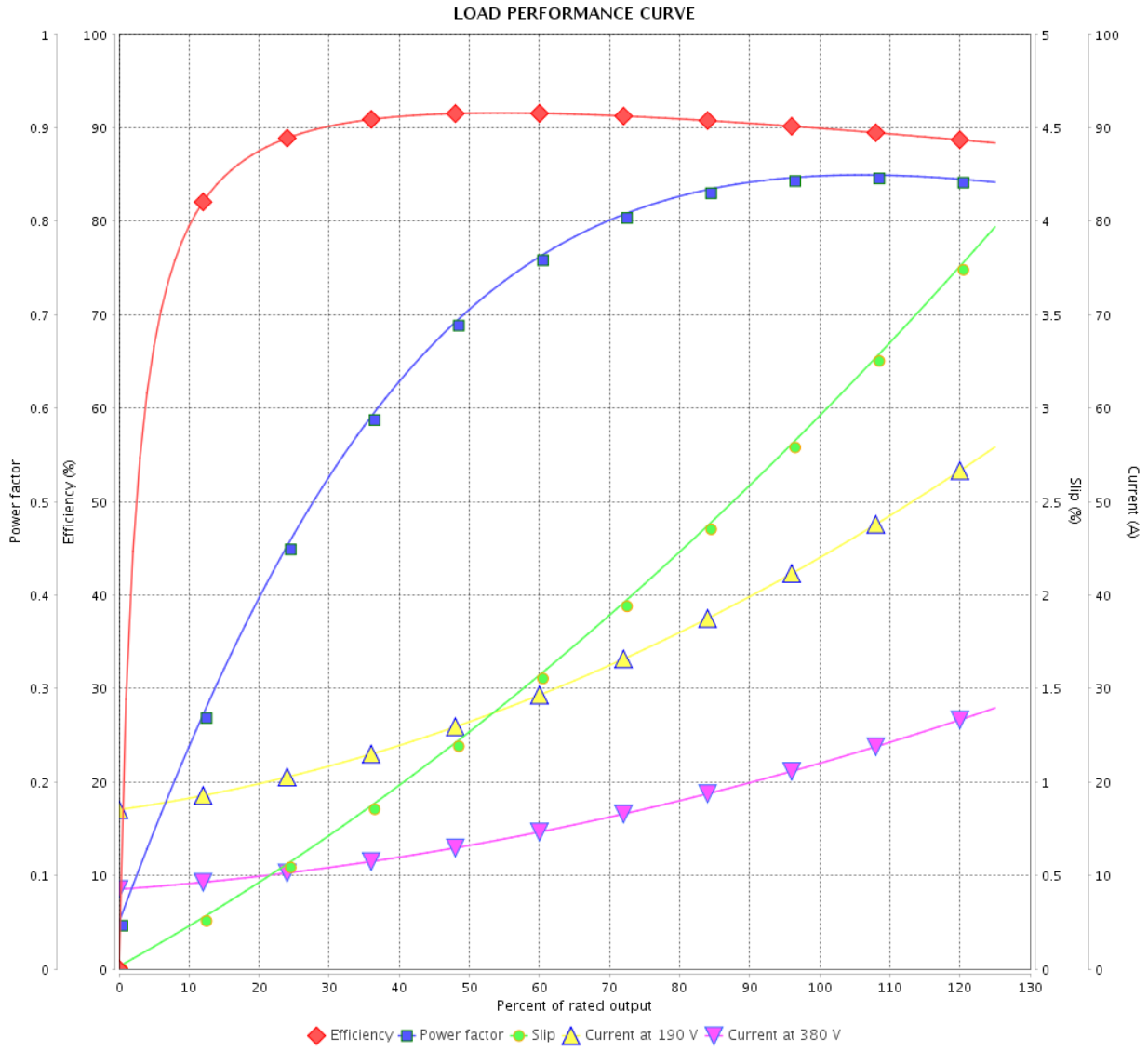
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	13393207



Performance	: 190/380 V 50 Hz 4P		
Rated current	: 43.8/21.9 A	Moment of inertia (J)	: 0.0904 kgm²
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 7.48 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 1455 rpm	Design	: B

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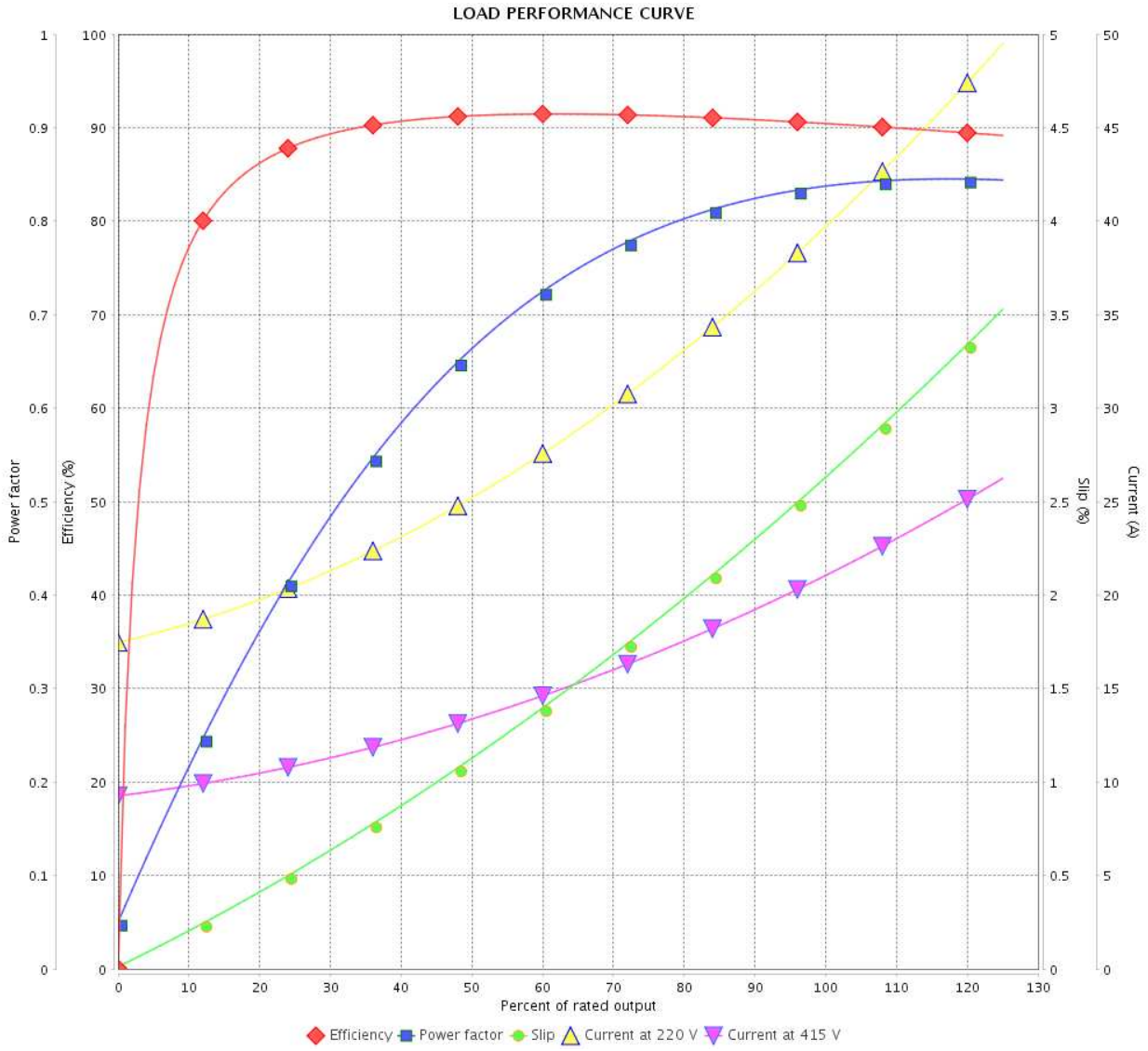
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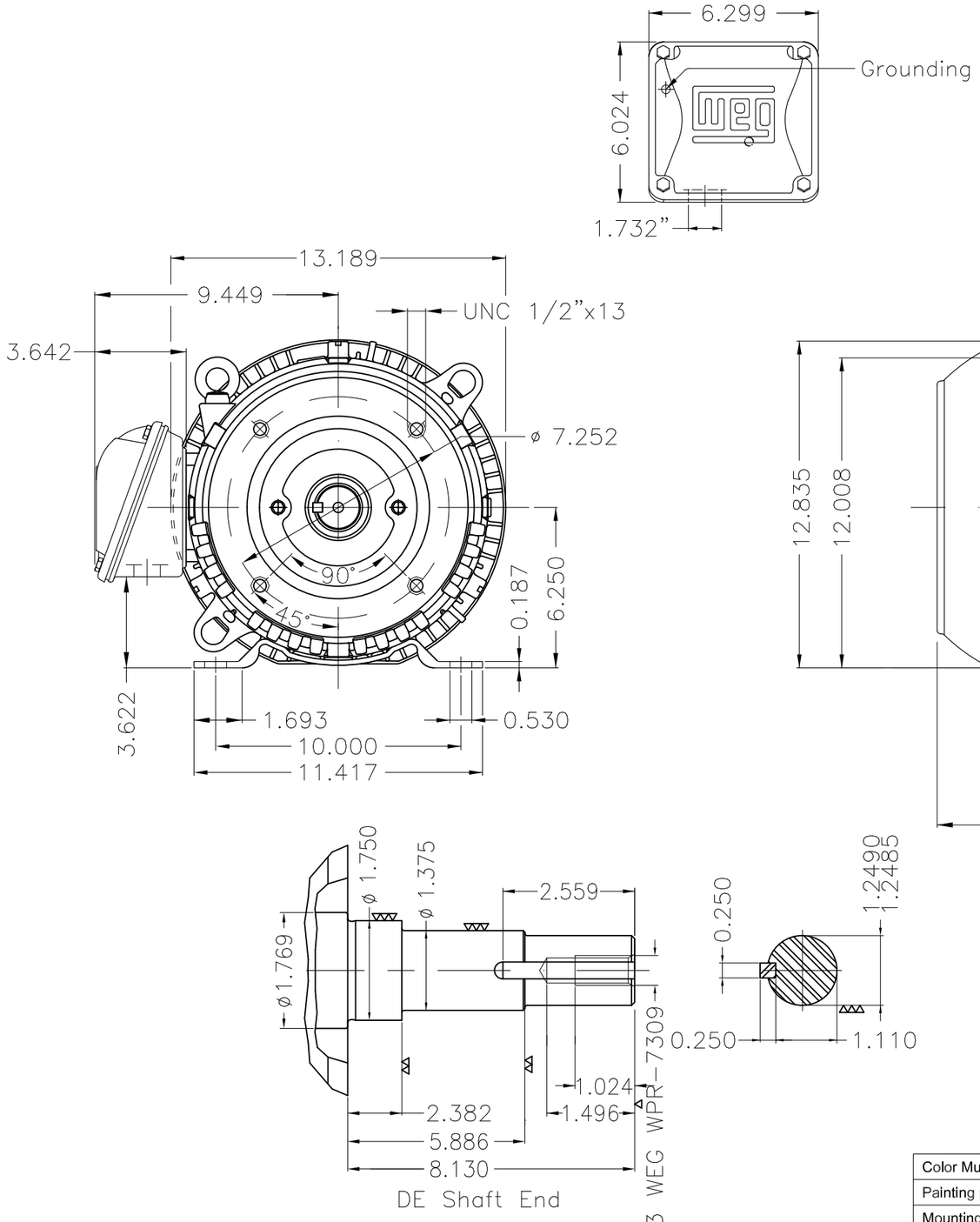


Performance	: 220/415 V 50 Hz 4P		
Rated current	: 39.4/20.9 A	Moment of inertia (J)	: 0.0904 kgm²
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 7.46 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 105 K
Rated speed	: 1460 rpm	Design	: B

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Color Munsell N 1 matte black

Painting plan 207N

Mounting F-1/B34R(D)

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

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

15 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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