DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Jet Pump - J type Standard Efficiency Three-Phase	Product code :	13952937

Frame	: 56J	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation¹	: CCW
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight³	: 11.3 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0027 kgm²

Output [HP]		0.75	0.75	0.75
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		208-230/460	190-220/380	415
Rated current [A]		2.70-2.44/1.22	2.74-2.37/1.37	1.38
L. R. Amperes [A]		18.6-16.8/8.42	15.3-13.3/7.67	8.56
LRC [A]		6.9x(Code K)	5.6x(Code H)	6.2x(Code K)
No load current [A]		1.55-1.80/0.900	1.71-1.48/0.856	1.09
Rated speed [RPM]		1755	1440	1450
Slip [%]		2.50	4.00	3.33
Rated torque [kgfm]		0.310	0.378	0.375
Locked rotor torque [%]		240	170	220
Breakdown torque [%]		300	229	290
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		30s (cold) 17s (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%			
	50%	72.0	73.1	68.6
	75%	77.0	76.5	74.2
	100%	78.5	76.5	76.1
Power Factor	25%			
	50%	0.48	0.58	0.49
	75%	0.61	0.72	0.62
	100%	0.72	0.80	0.73

		Drive end	Non drive end
Bearing type	:	6203 2RS	6202 2RS
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 29 kgf

Max. compression : 40 kgf

Notes

USABLE @208V SF 1.00

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

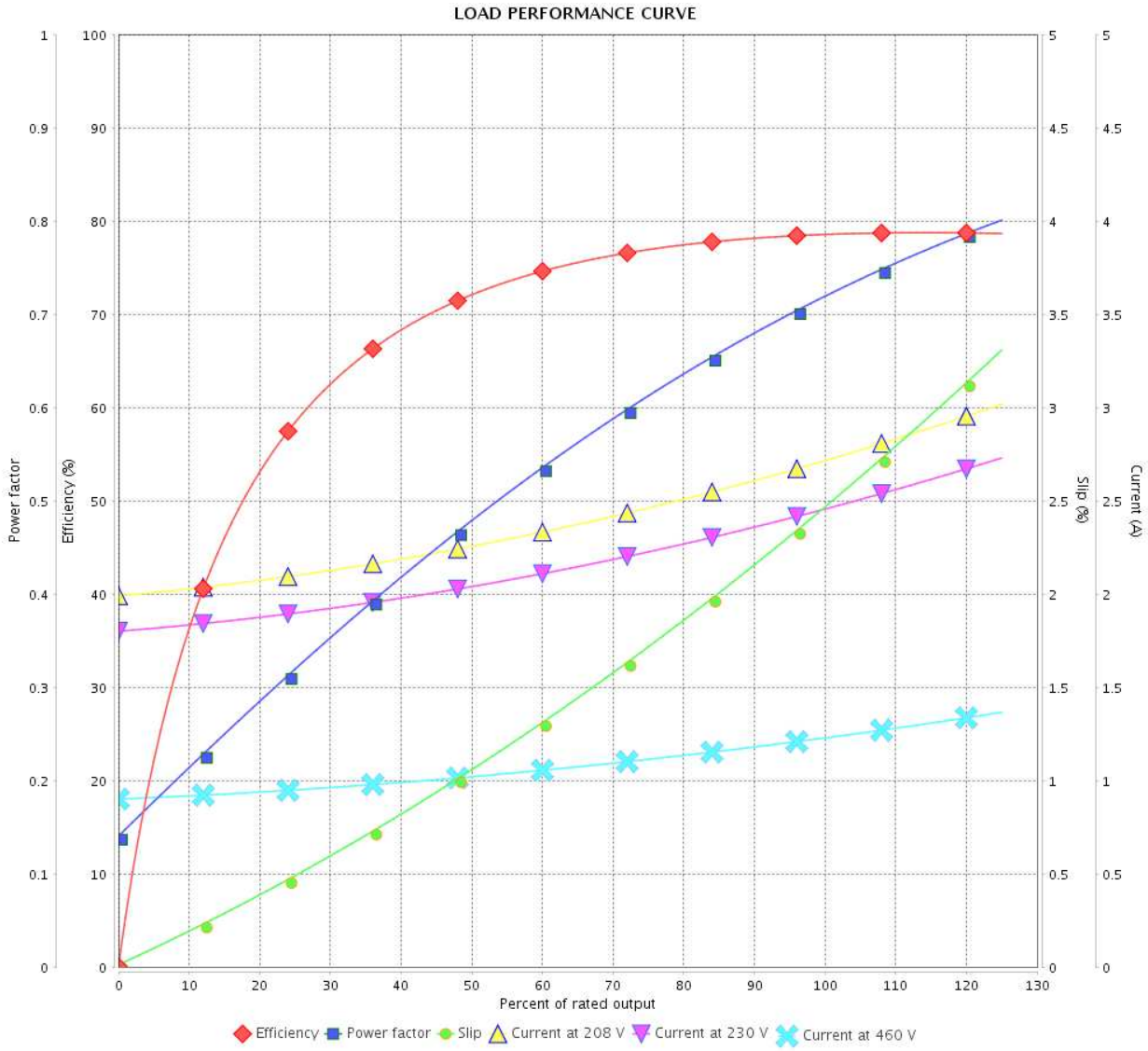
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Date	11/05/2022		1 / 4	

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Jet Pump - J type Standard Efficiency Three-Phase	Product code :	13952937



Performance	: 208-230/460 V 60 Hz 4P		
Rated current	: 2.70-2.44/1.22 A	Moment of inertia (J)	: 0.0027 kgm²
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 0.310 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	:
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1755 rpm		

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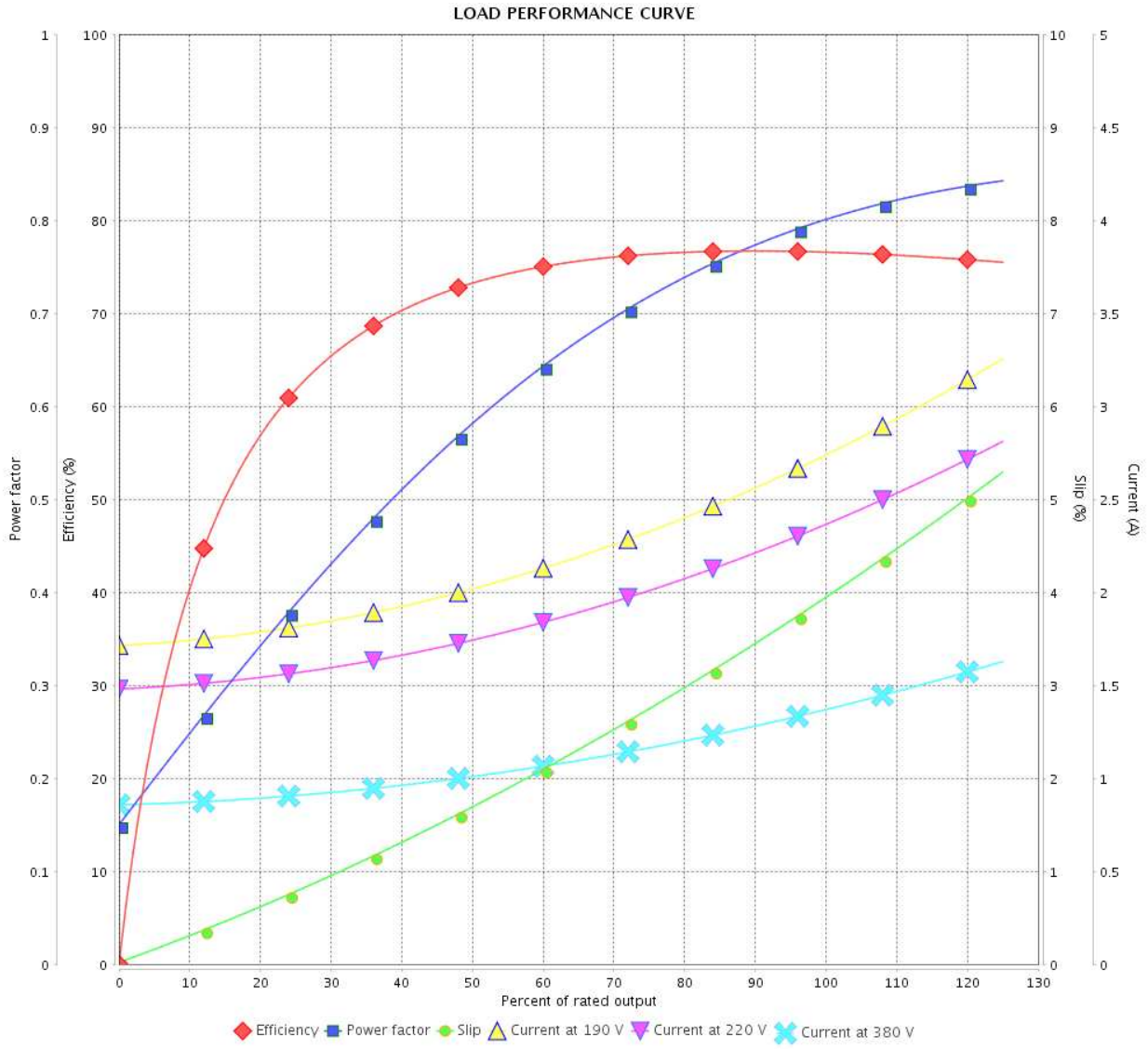
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Date	11/05/2022		2 / 4	

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Jet Pump - J type Standard Efficiency Three-Phase
Product code :	13952937



Performance	: 190-220/380 V 50 Hz 4P		
Rated current	: 2.74-2.37/1.37 A	Moment of inertia (J)	: 0.0027 kgm²
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 0.378 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 1440 rpm		

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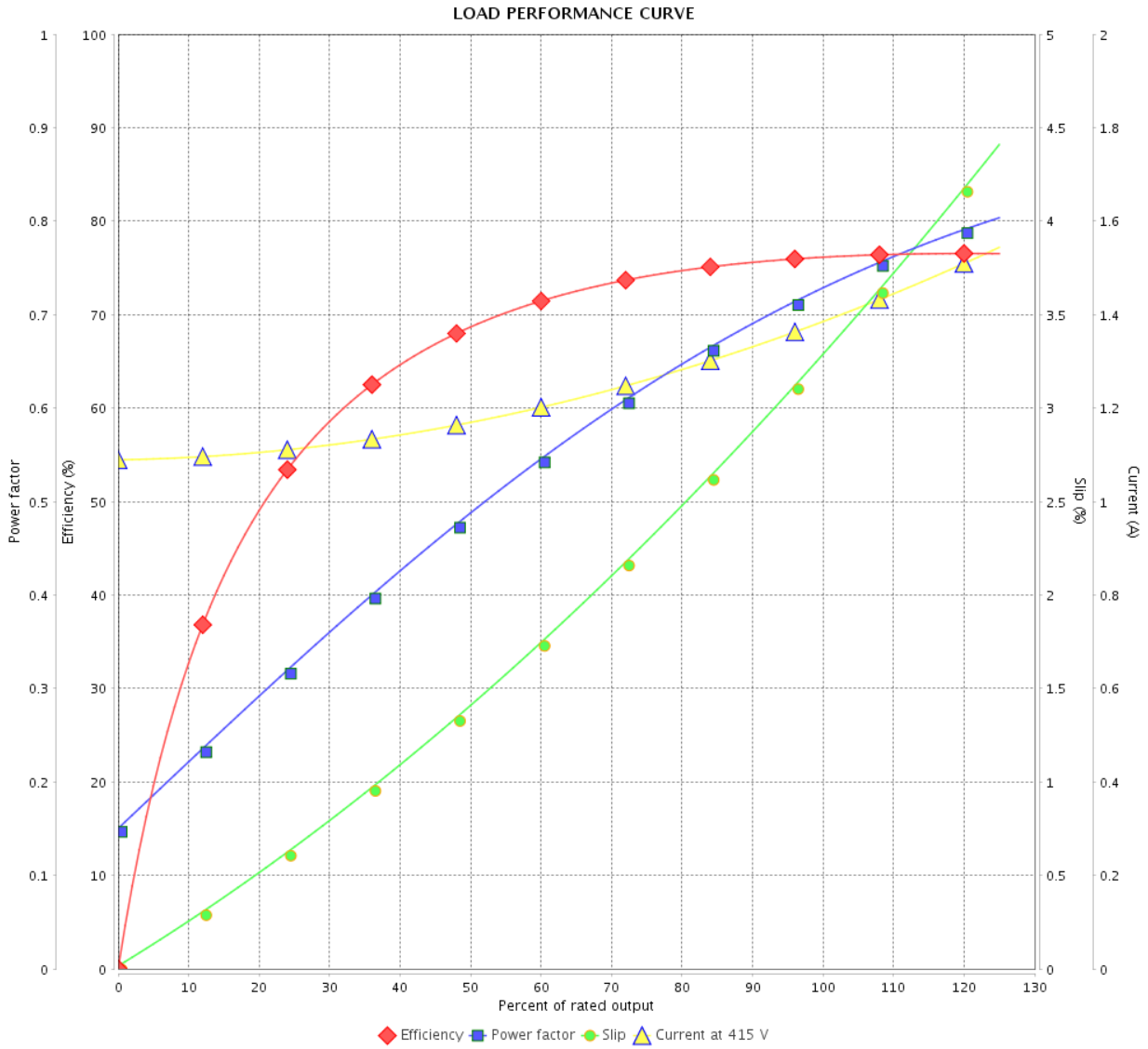
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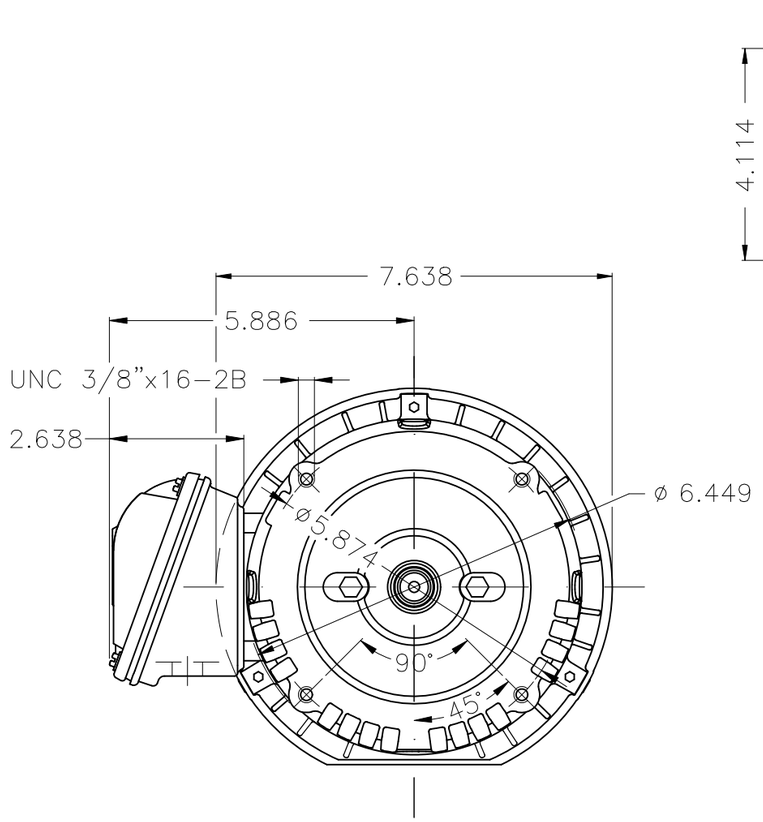


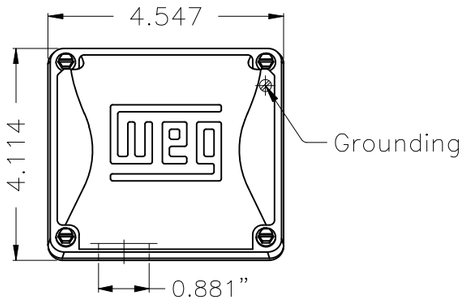
Performance	: 415 V 50 Hz 4P		
Rated current	: 1.38 A	Moment of inertia (J)	: 0.0027 kgm²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 0.375 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm		

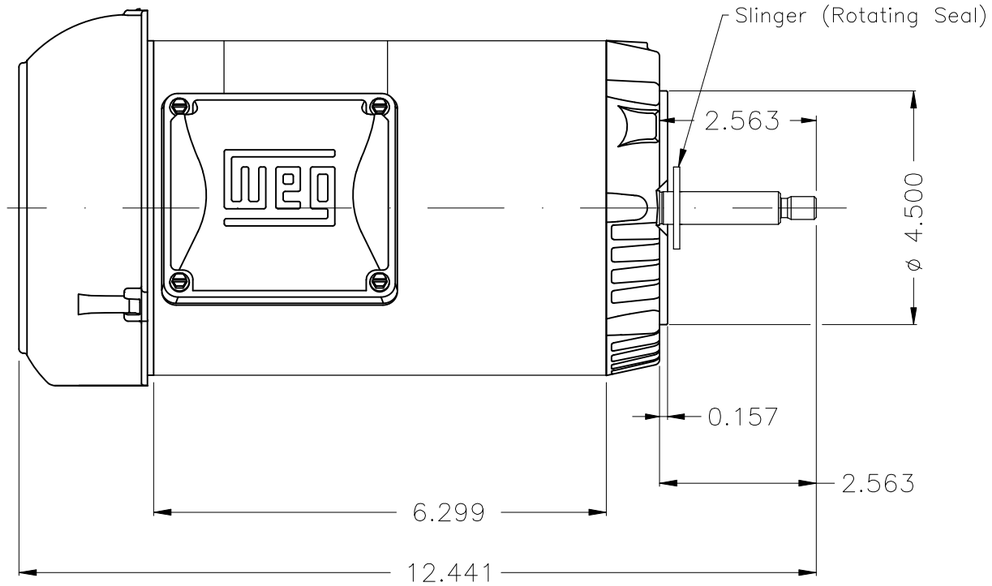
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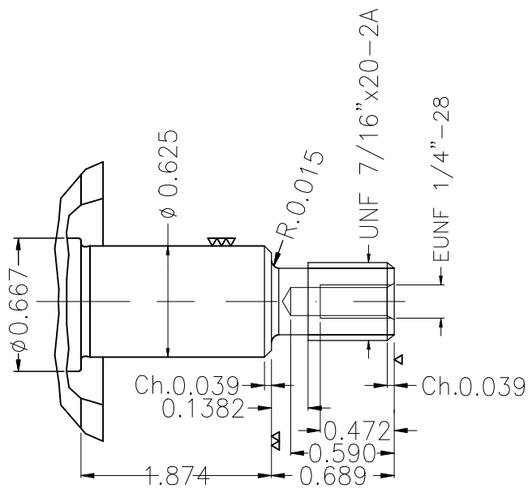
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Date	11/05/2022		4 / 4	

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

Color Munsell N 1 matte black

Painting plan 207N

Mounting F-1/B14R(D)

EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL JET PUMP THREADED	PREVIEW	
CHECKED		FRAME 56J IP55 TEFC	WDD	00
RELEASED				
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET	1 / 1

0.75 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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