DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel Jet Pump - J type
Premium Efficiency Three-Phase

Product code : 18153831

Frame	: 56J	Locked rotor time	: 37s (cold) 21s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 1.62 A	Protection degree	: IP55
L. R. Amperes	: 13.3 A	Cooling method	: IC411 - TEFC
LRC	: 8.2x(Code K)	Mounting	: F-1
No load current	: 0.864 A	Rotation[1]	: CCW
Rated speed	: 1750 rpm	Noise level[2]	: 52.0 dB(A)
Slip	: 2.78 %	Vibration	: A
Rated torque	: 0 kgfm	Starting method	: Direct On Line
Locked rotor torque	: 270 %	Approx. weight[3]	: 17.2 kg
Breakdown torque	: 300 %	Painting plan	: 207N (ISO 12944 - C2)
Insulation class	: F	Color	: Munsell N 1 - Matte
Service factor	: 1.15	Design	: B
Moment of inertia (J)	: 0.0046 kgm²		

Output	50%	75%	100%
Efficiency (%)	85.5	86.5	86.5
Power Factor	0.59	0.72	0.79

Foundation loads

Max. traction : 51 kgf
Max. compression : 68 kgf

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
17.8	15.9	14.9	9.1	6.7	4.8	3.6

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

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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Date	08/10/2026		1 / 2	

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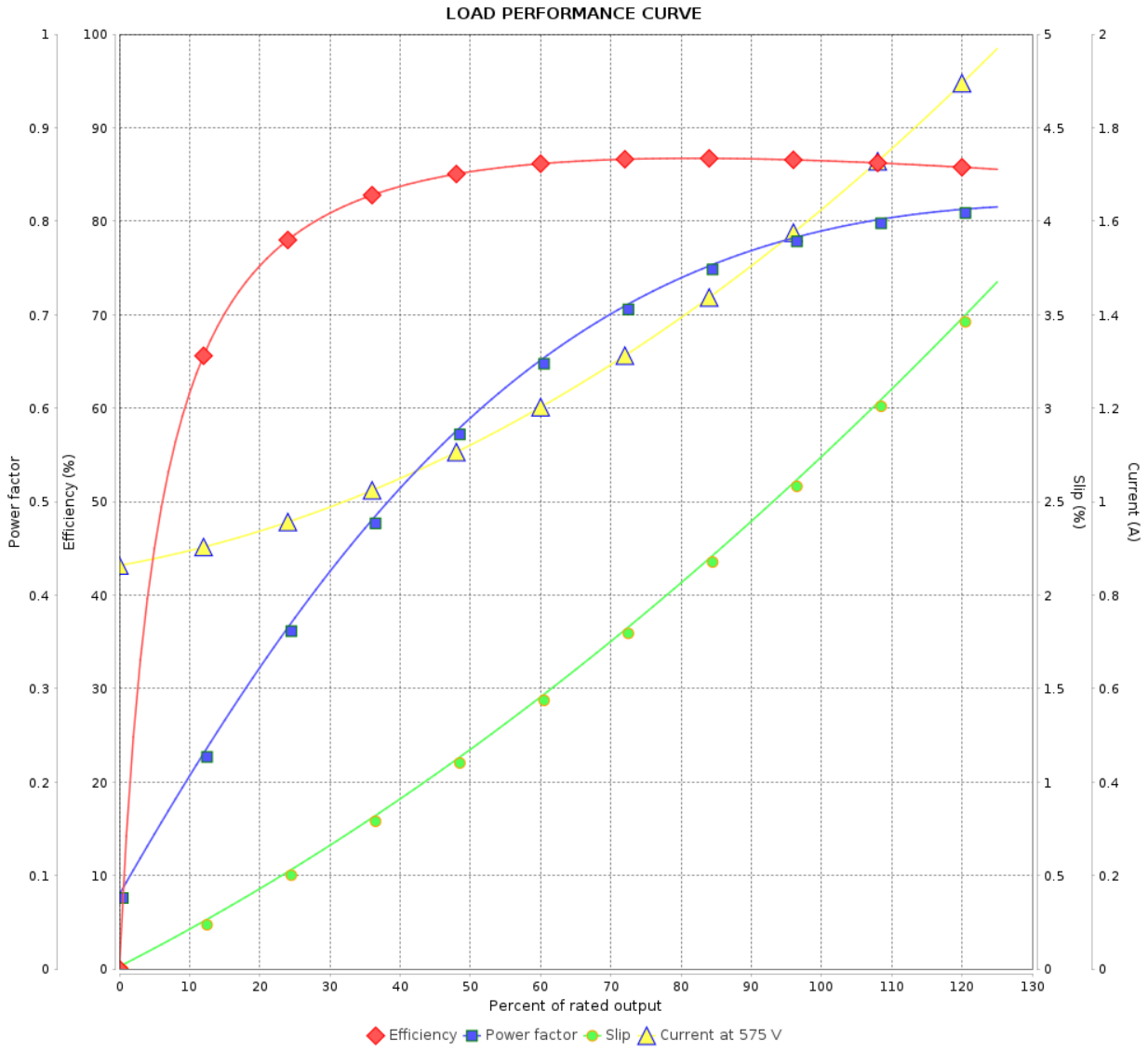
LOAD PERFORMANCE CURVE

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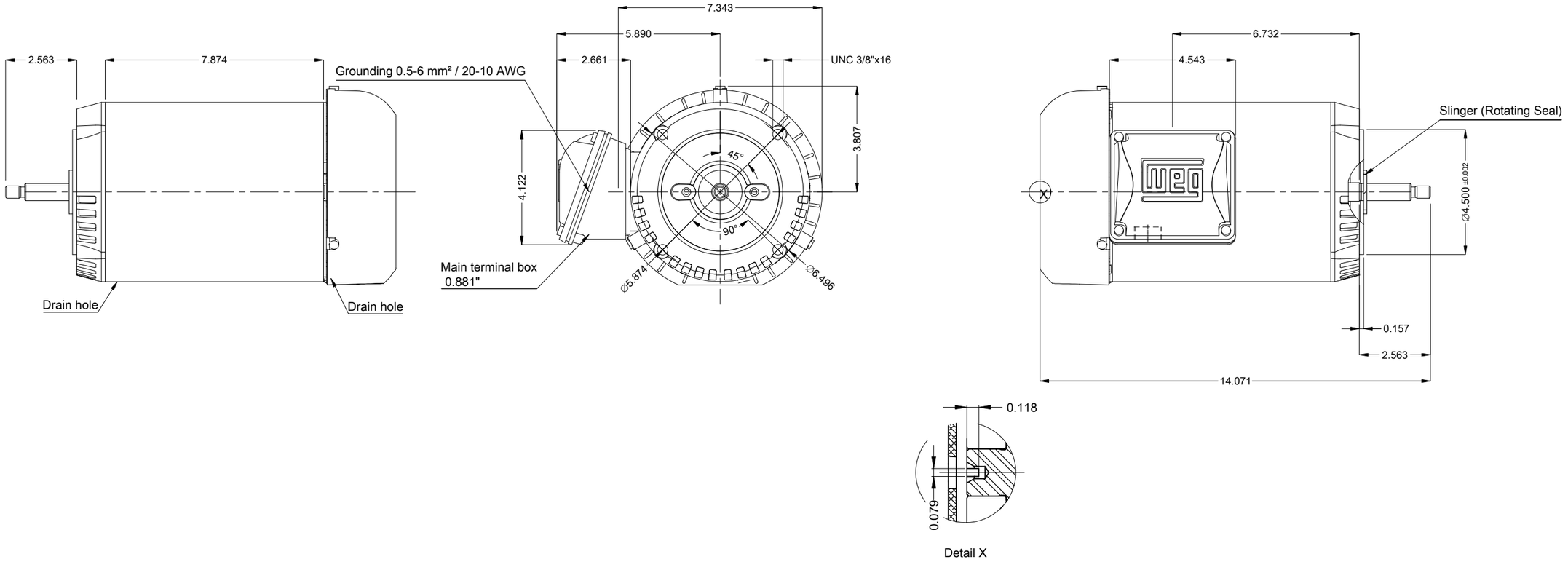


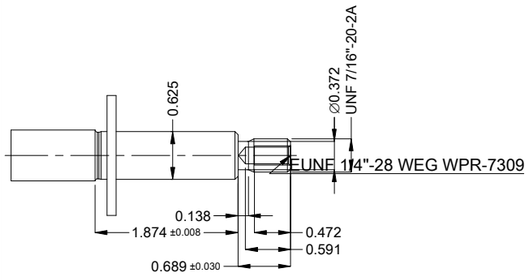
Performance	: 575 V 60 Hz 4P		
Rated current	: 1.62 A	Moment of inertia (J)	: 0.0046 kgm²
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

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Shaft material - stainless steel AISI 304
Fan cover - steel plate
NDE-bearing with double shield-ZZ
DE-bearing with double shield-ZZ
Color Munsell N 1 matte black
Painting plan 207N
Mounting MARKET F-1/B14R(D)
Mounting F-1/B14R(D)

1.5 HP 04 Poles 60 Hz | A

Scale 1 : 4

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

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR ROLLED STEEL JET PUMP THREADED PREM EFF
FRAME 56J IP55 TEFC

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in inches

A3

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