

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Jet Pump - J type Single-Phase Product code : 18978298

Frame	: 56J	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Frequency	: 60 Hz	Duty cycle	: Cont.(S1)
Rated voltage	: 208-230 V	Ambient temperature	: -20°C to +40°C
Poles	: 2	Altitude	: 1000 m.a.s.l.
Rated current	: 13.6-12.5 A	Protection degree	: IP55
	: 8.2x(Code J)	Cooling method	: IC411 - TEFC
Rated speed	: 3500 rpm	Mounting	: F-1
Rated torque	: 0.622 kgfm	Rotation ¹	: CCW
Insulation class	: F	Starting method	: Direct On Line
Service factor	: 1.15	Approx. weight ³	: 20.5 kg
Moment of inertia (J)	: 0.0040 kgm ²		
Design	: L		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	81.5	84.0	84.0	Max. traction : 46 kgf
Power Factor	0.00	0.83	0.88	0.91	Max. compression : 66 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6203 2RS	6202 2RS
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	0 h	0 h
Lubricant amount	:	0 g	0 g
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
Performed by		Page Revision 1 / 2		
Checked by				
Date	26/06/2026			

LOAD PERFORMANCE CURVE

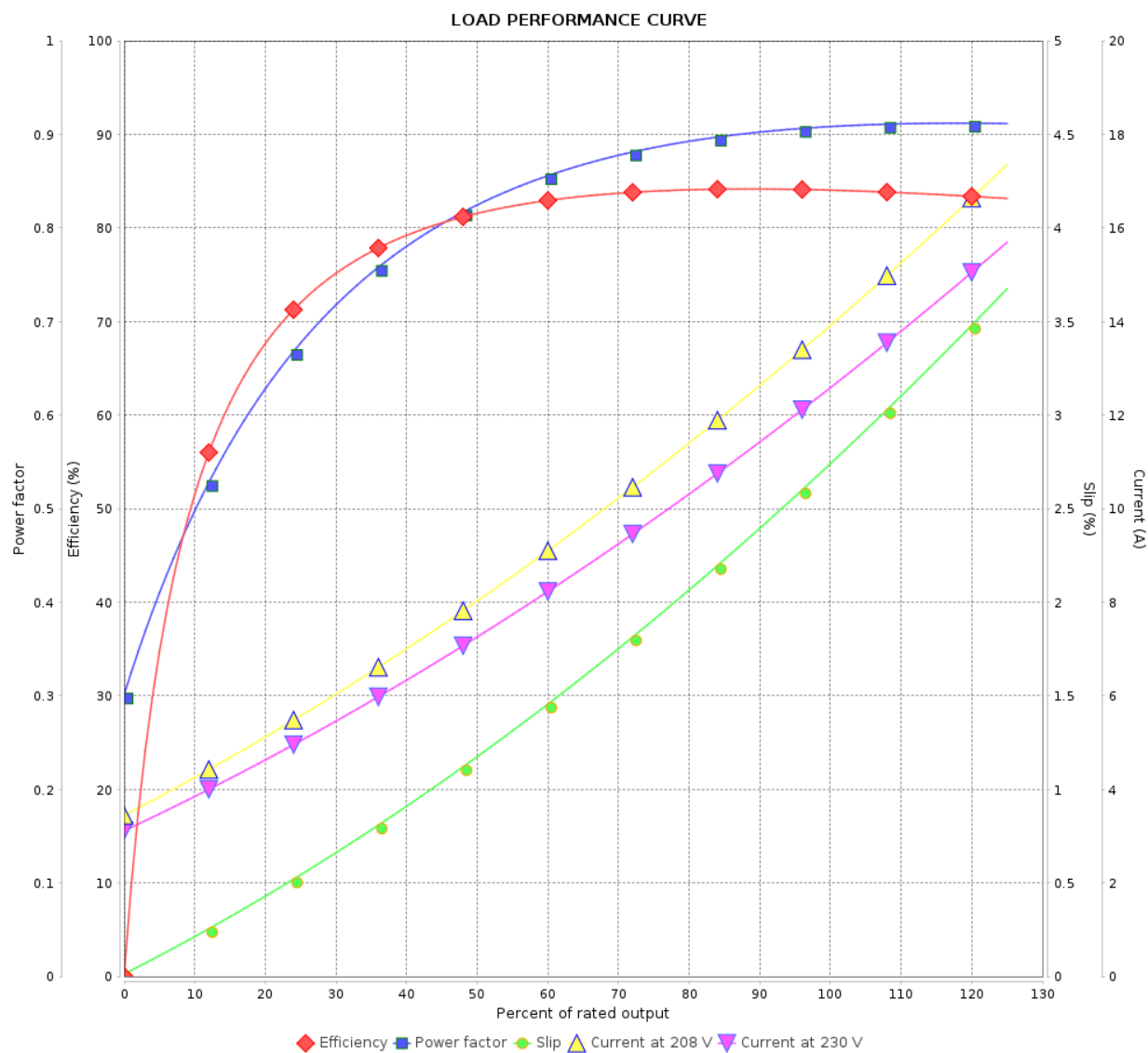
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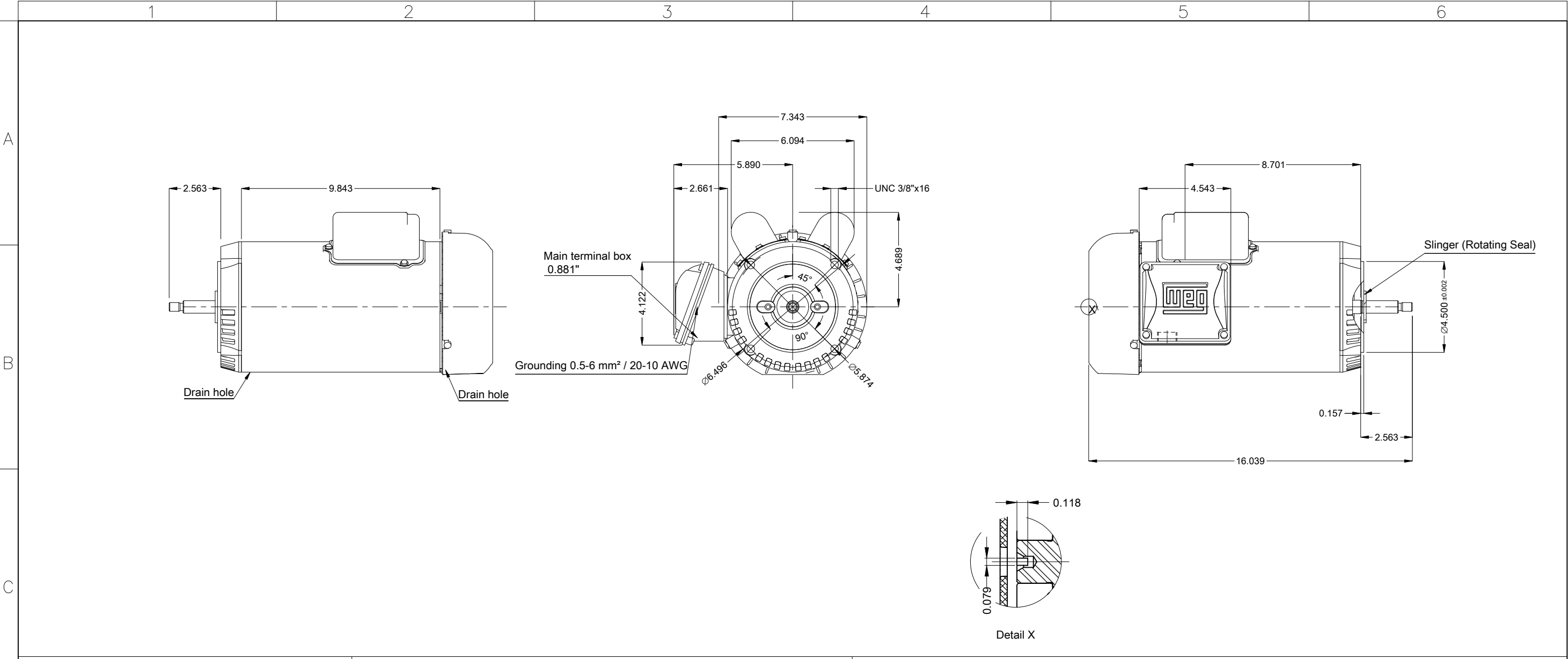
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D												
			3 HP 02 Poles 60 Hz									
E	Reinforce the foot with 2 mig welding spots								Scale		1 : 5	
	Shaft material - stainless steel AISI 304								HYBRISUSER		00	
	Fan cover - steel plate								EXECUTED		CHECKED	
	Color Munsell N 1 matte black								RELEASED		DATE	
	Painting plan 207N								VER			
	Mounting MARKET F-1/B14R(D)								SINGLE PH. MOTOR ROLLED STEEL JET PUMP THREADED PRE-REF		PREVIEW	
	Mounting F-1/B14R(D)								FRAME 56J IP55 TEFC		WDD 00	
									SHEET		1 / 1	