

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Wjet Pump Single-Phase Start Capacitor Product code : 11953261

Frame	: E56J	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 115/208-230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 23.0/11.6-11.5 A	Protection degree	: IP21
L. R. Amperes	: 136/68.4-67.9 A	Cooling method	: IC01 - ODP
LRC	: 5.9x(Code J)	Mounting	: F-1
No load current	: 15.0/6.47-7.50 A	Rotation ¹	: CCW
Rated speed	: 3450 rpm	Starting method	: Direct On Line
Slip	: 4.17 %	Approx. weight ³	: 15.1 kg
Rated torque	: 0.421 kgfm		
Locked rotor torque	: 160 %		
Breakdown torque	: 220 %		
Insulation class	: B		
Service factor	: 1.20		
Moment of inertia (J)	: 0.0185 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	65.0	70.0	70.0	Max. traction	: 22 kgf
Power Factor	0.63	0.73	0.80	Max. compression	: 37 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6203 2RS	6203 2RS
Sealing	:	Slinger	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
Performed by		Page 1 / 2 Revision		
Checked by				
Date	24/10/2024			

LOAD PERFORMANCE CURVE

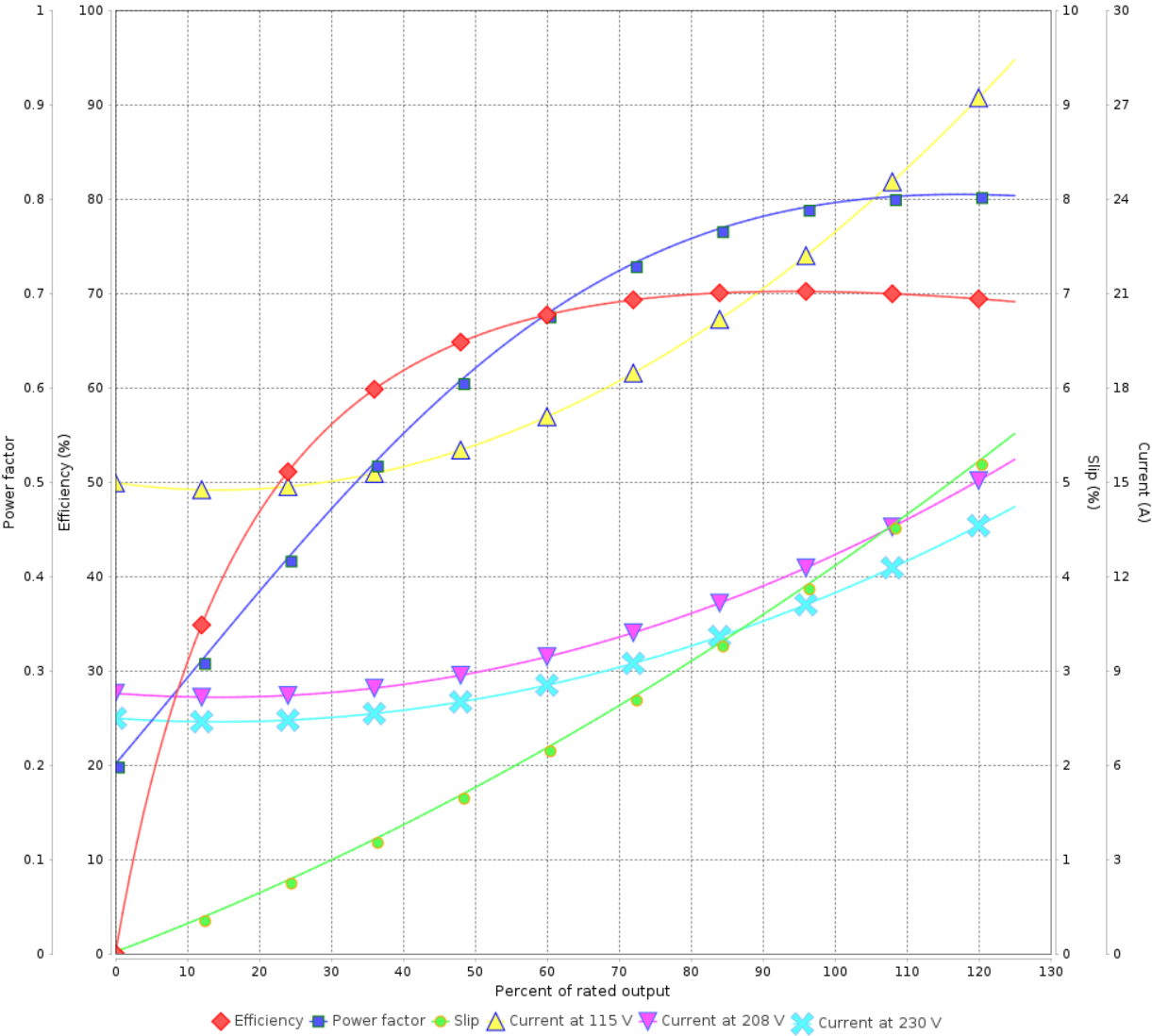
Single Phase Induction Motor - Squirrel Cage



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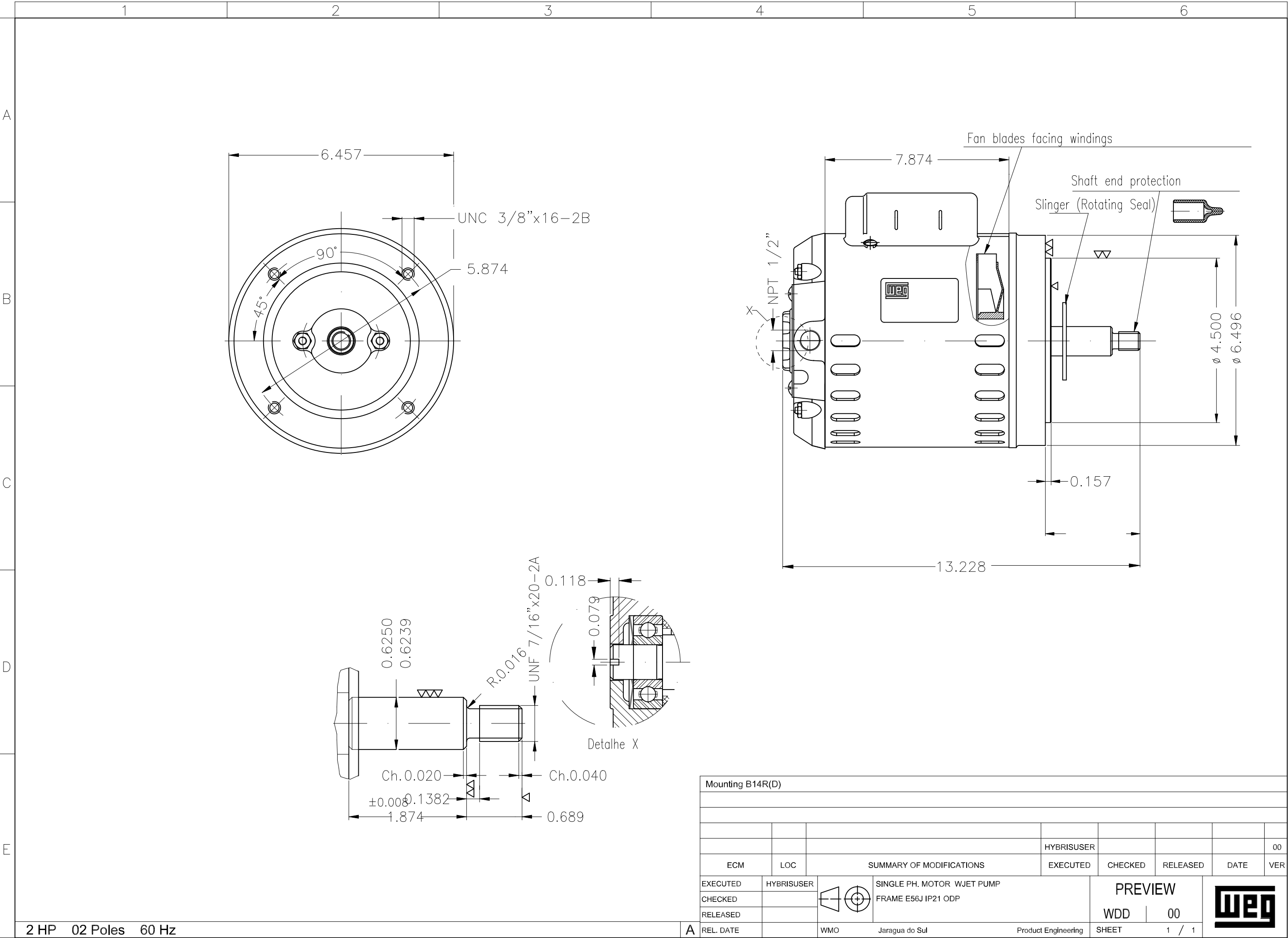
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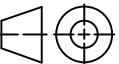

LOAD PERFORMANCE CURVE



Performance : 115/208-230 V 60 Hz 2P			
Rated current	: 23.0/11.6-11.5 A	Moment of inertia (J)	: 0.0185 kgm²
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 0.421 kgfm	Insulation class	: B
Locked rotor torque	: 160 %	Service factor	:
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 3450 rpm		

Rev.	Changes Summary		Performed	Checked	Date
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Mounting B14R(D)										
						HYBRISUSER				00
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		SINGLE PH. MOTOR WJET PUMP FRAME E56J IP21 ODP				PREVIEW WDD 00			
CHECKED										
RELEASED										
REL. DATE										
		WMO	Jaragua do Sul			Product Engineering		SHEET	1 / 1	