

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Centrifugal Pump Single-Phase Product code : 10678036
Start Capacitor

Frame	: E56C	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 15.0 A	Protection degree	: IP21
L. R. Amperes	: 105 A	Cooling method	: IC01 - ODP
LRC	: 7.0x(Code K)	Mounting	: F-1
No load current	: 8.40 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3475 rpm	Noise level ²	: 55.0 dB(A)
Slip	: 3.47 %	Starting method	: Direct On Line
Rated torque	: 0.627 kgfm	Approx. weight ³	: 20.0 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 229 %		
Insulation class	: B		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0028 kgm ²		

Output	50%	75%	100%	Foundation loads
Efficiency (%)	76.7	78.7	77.1	Max. traction
Power Factor	0.63	0.76	0.83	Max. compression

	Drive end	Non drive end
Bearing type	: 6203 2RS	: 6203 2RS
Sealing	: Without Bearing Seal	: 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 Revision 1 / 2		
Checked by				
Date	24/10/2024			

LOAD PERFORMANCE CURVE

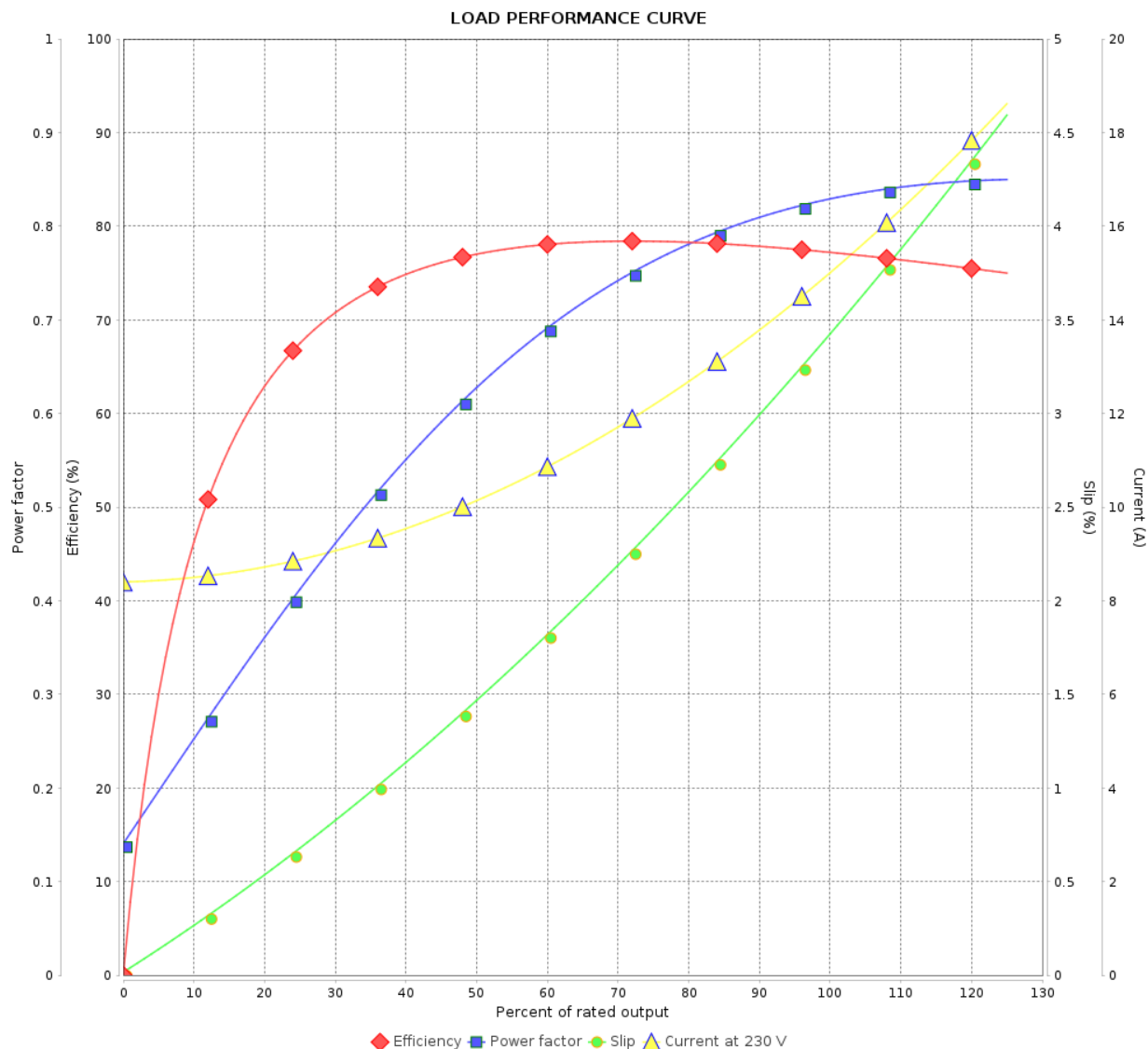
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Start Capacitor

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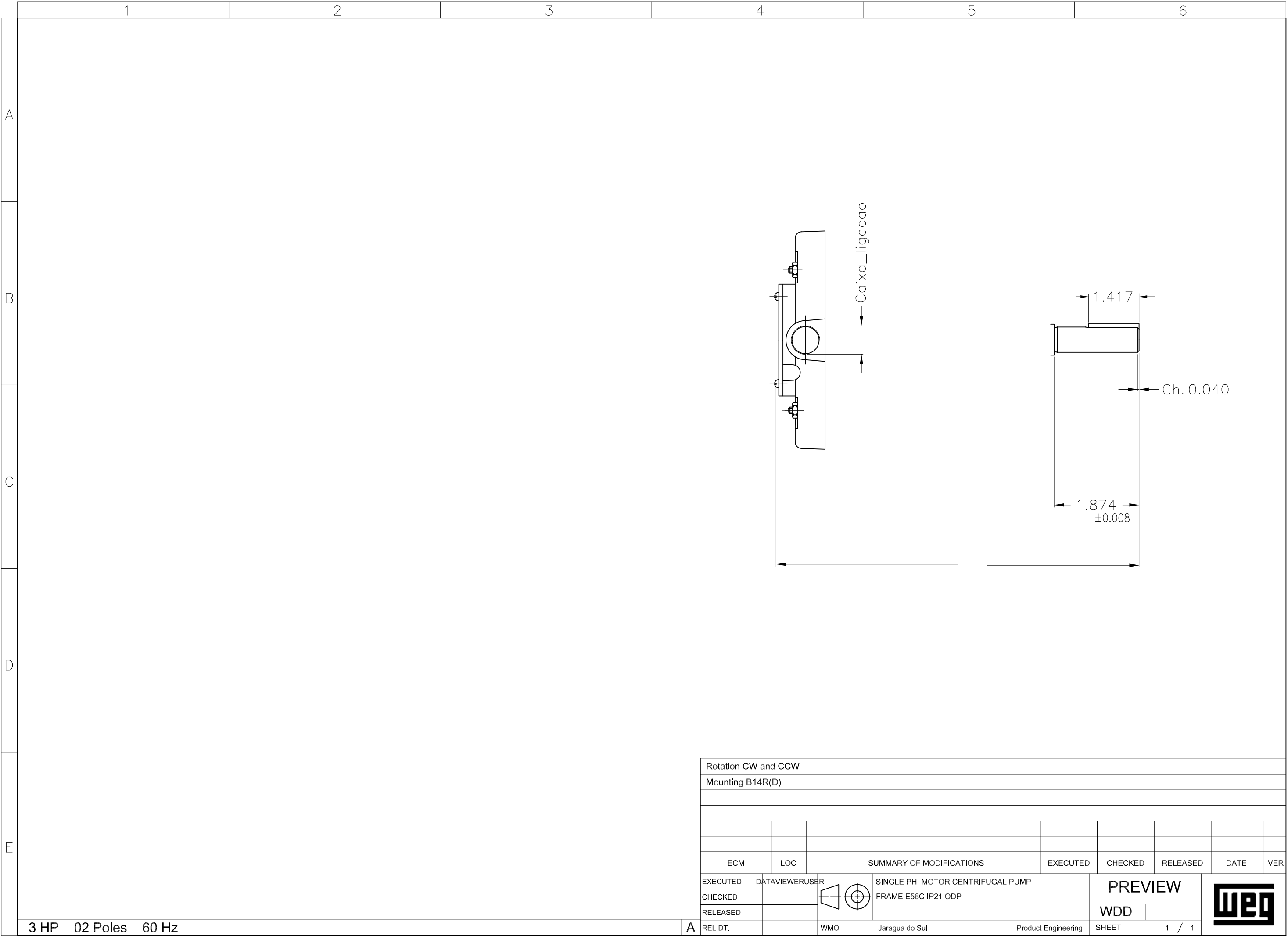


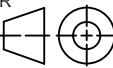
Performance : 230 V 60 Hz 2P

Rated current : 15.0 A
LRC : 7.0
Rated torque : 0.627 kgfm
Locked rotor torque : 220 %
Breakdown torque : 229 %
Rated speed : 3475 rpm

Moment of inertia (J) : 0.0028 kgm²
Duty cycle : Cont.(S1)
Insulation class : B
Service factor : 1.15
Temperature rise : 80 K

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 2Revision	
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Date	24/10/2024				



Rotation CW and CCW									
Mounting B14R(D)									
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE VER
EXECUTED	DATAVIEWER	USER	 SINGLE PH. MOTOR CENTRIFUGAL PUMP FRAME E56C IP21 ODP				PREVIEW WDD		
CHECKED									
RELEASED									
REL DT.		WMO							
		Jaragua do Sul		Product Engineering		SHEET		1 / 1	