

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 JP Pump Single-Phase Product code : 15150681

Frame	: 213/5JP	Locked rotor time	: 14s (cold) 8s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 38.8/19.4 A	Protection degree	: IP55
L. R. Amperes	: 272/136 A	Cooling method	: IC411 - TEFC
LRC	: 7.0x(Code G)	Mounting	: F-1
No load current	: 6.90/3.45 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3515 rpm	Noise level ²	: 72.0 dB(A)
Slip	: 2.36 %	Starting method	: Direct On Line
Rated torque	: 2.06 kgfm	Approx. weight ³	: 78.8 kg
Locked rotor torque	: 229 %		
Breakdown torque	: 290 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0223 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	82.0	85.5	86.5	Max. traction	: 71 kgf
Power Factor	0.96	0.97	0.97	Max. compression	: 150 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 ZZ C3	6206 ZZ
Sealing	:	V'Ring	V'Ring
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	29/10/2024			

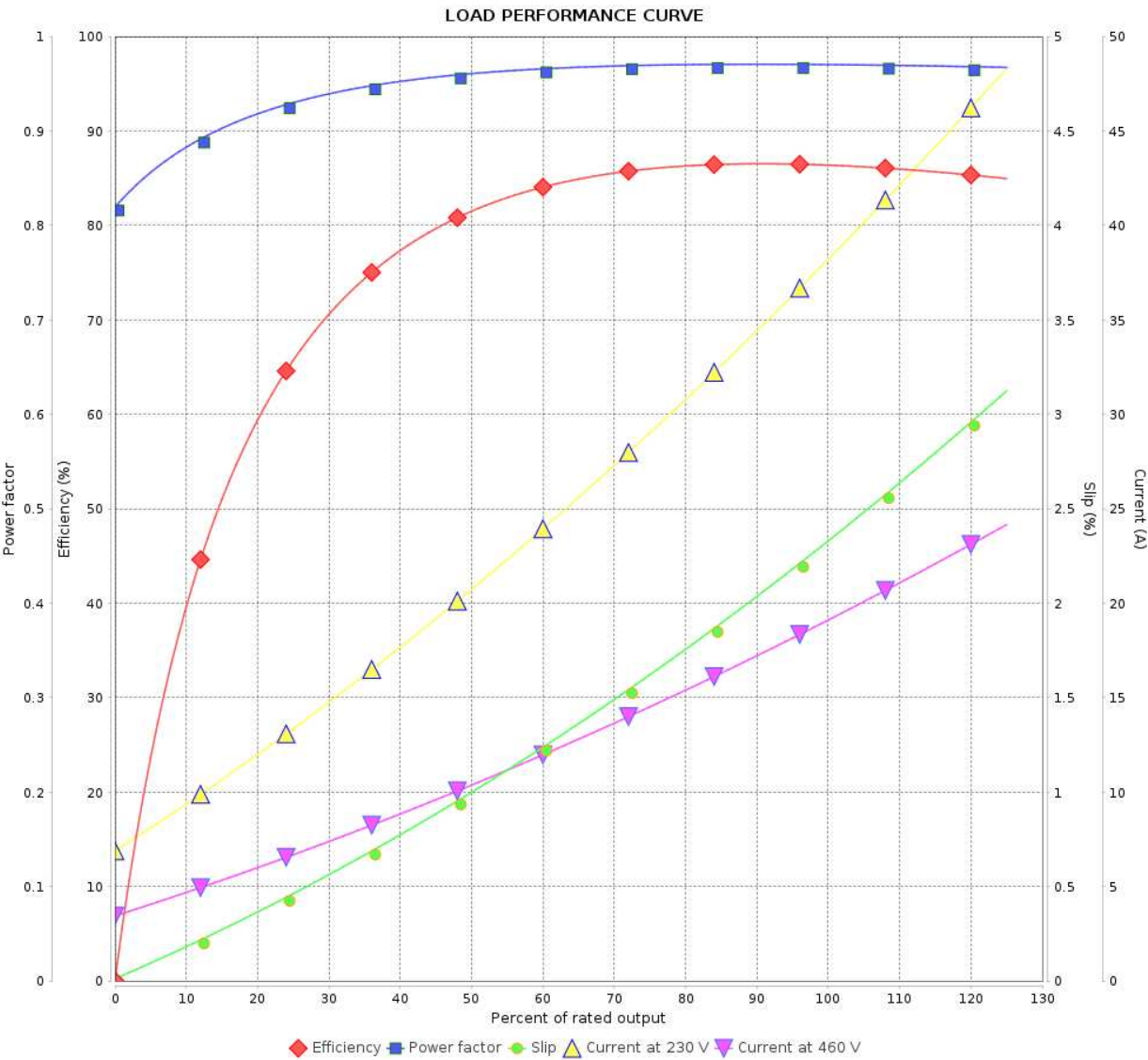
LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 JP Pump Single-Phase Product code : 15150681

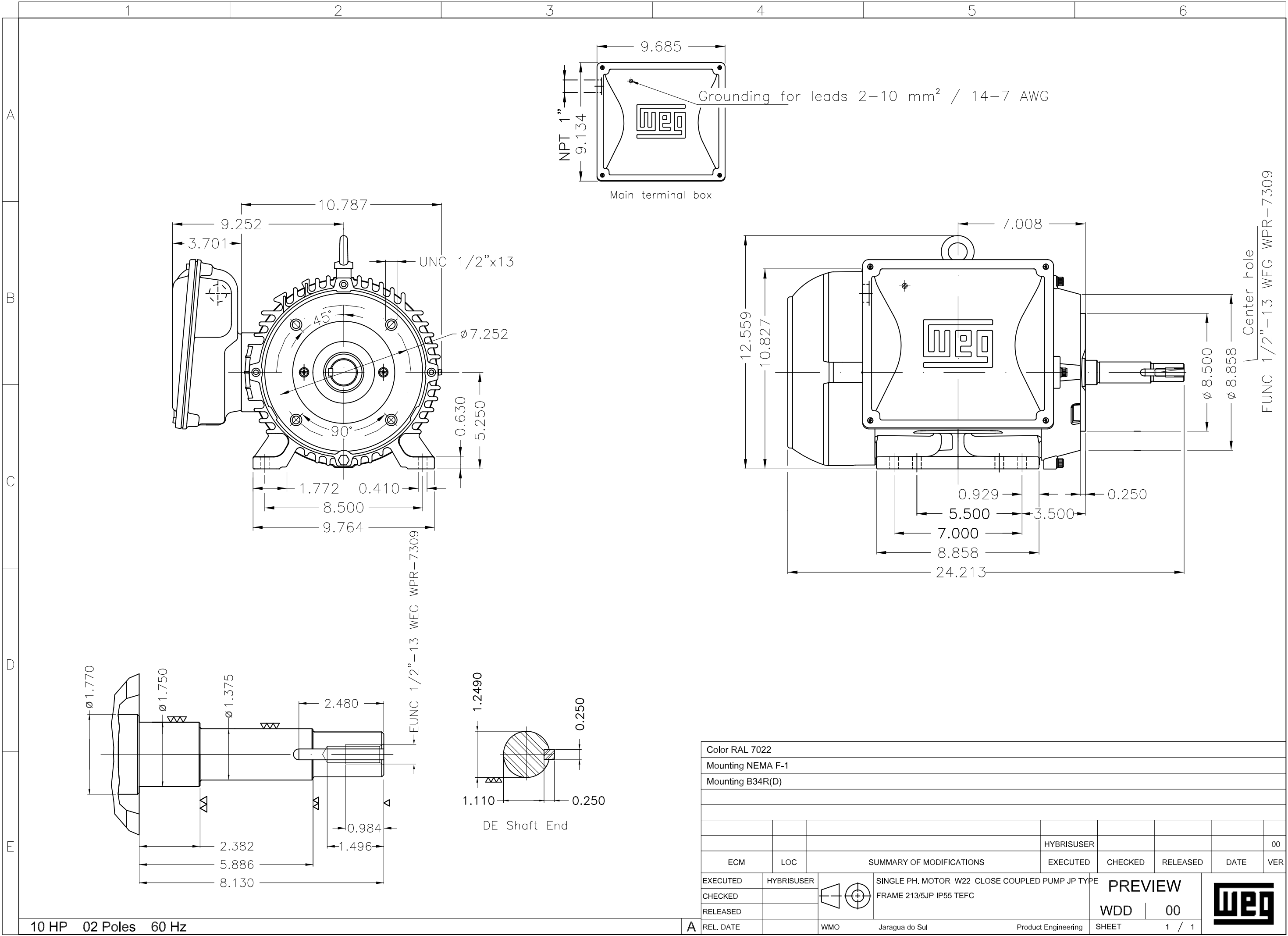


Performance : 230/460 V 60 Hz 2P

Rated current : 38.8/19.4 A
LRC : 7.0
Rated torque : 2.06 kgfm
Locked rotor torque : 229 %
Breakdown torque : 290 %
Rated speed : 3515 rpm

Moment of inertia (J) : 0.0223 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 2Revision		
Checked by				
Date	29/10/2024			



A

B

C

D

E

10 HP 02 Poles 60 Hz

Color RAL 7022
Mounting NEMA F-1
Mounting B34R(D)
ECM LOC SUMMARY OF MODIFICATIONS EXECUTED CHECKED RELEASED DATE VER
EXECUTED HYBRISUSER SINGLE PH. MOTOR W22 CLOSE COUPLED PUMP JP TYPE FRAME 213/5JP IP55 TEFC
CHECKED
RELEASED
REL. DATE WMO Jaragua do Sul Product Engineering SHEET 1 / 1

PREVIEW

WDD 00