

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Single-Phase Product code : 14984814

Frame	: 143/5T	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 10.7/5.50-5.33 A	Protection degree	: IP55
L. R. Amperes	: 89.5/46.2-44.8 A	Cooling method	: IC411 - TEFC
LRC	: 8.4x(Code M)	Mounting	: F-1
No load current	: 6.40/2.76-3.20 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1665 rpm	Noise level <sup>2</sup>	: 58.0 dB(A)
Slip	: 7.50 %	Starting method	: Direct On Line
Rated torque	: 0.436 kgfm	Approx. weight <sup>3</sup>	: 27.2 kg
Locked rotor torque	: 270 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0055 kgm <sup>2</sup>		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	59.0	68.0	72.0	Max. traction	: 23 kgf
Power Factor	0.69	0.79	0.85	Max. compression	: 51 kgf

	Drive end	Non drive end
Bearing type	: 6205 ZZ	: 6203 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				
Checked by			Page	Revision
Date	29/10/2024		1 / 2	

# LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

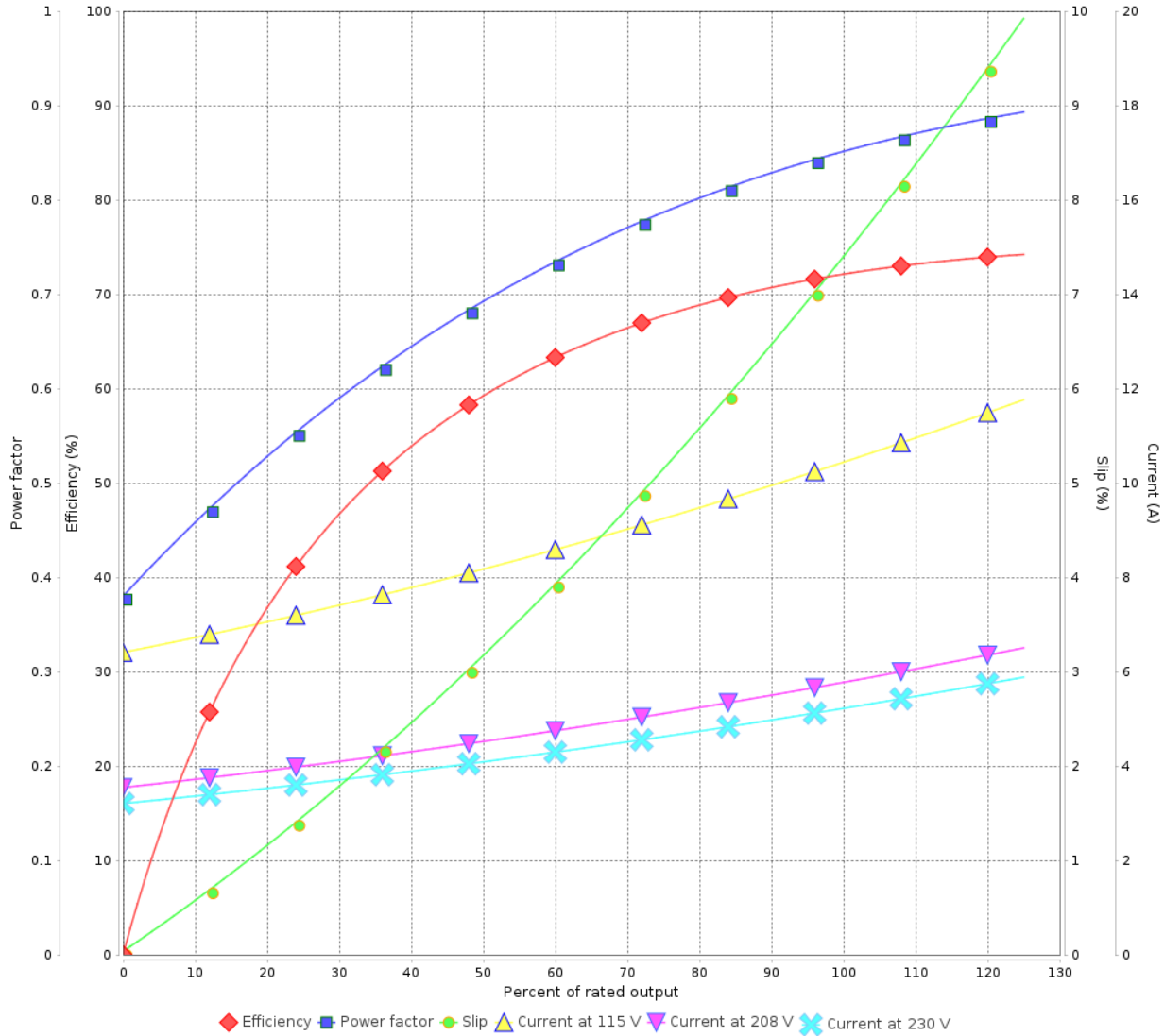


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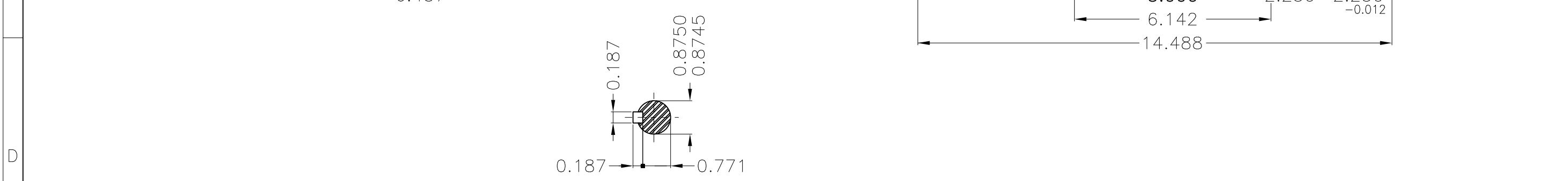
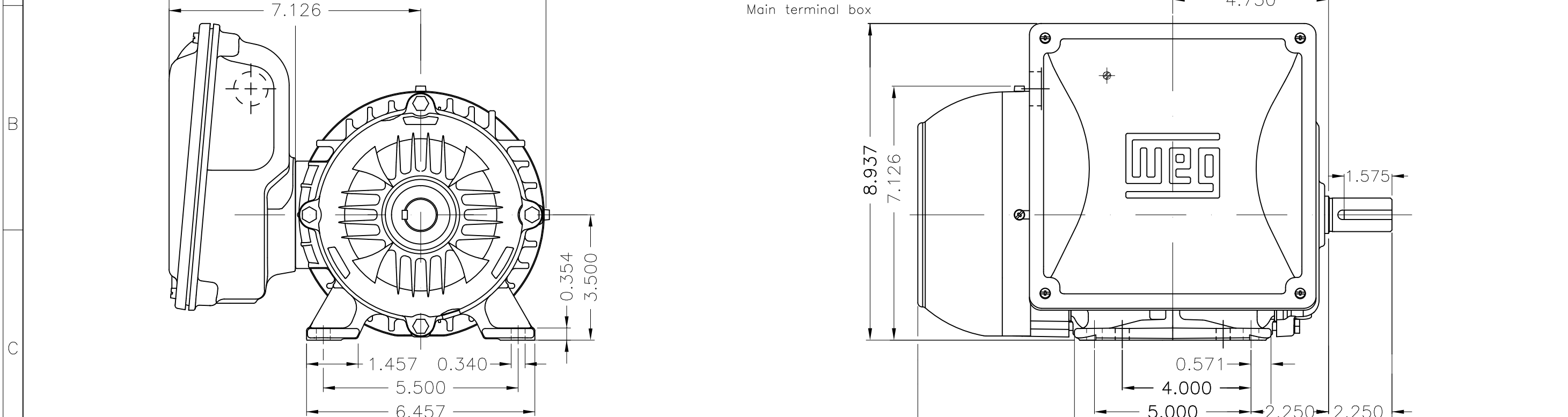
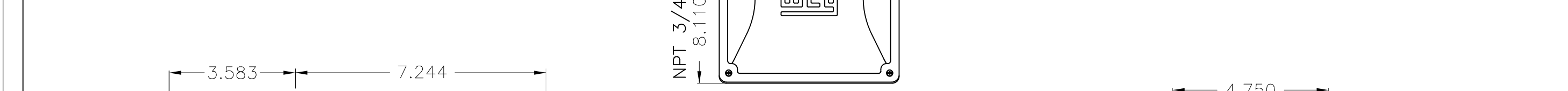
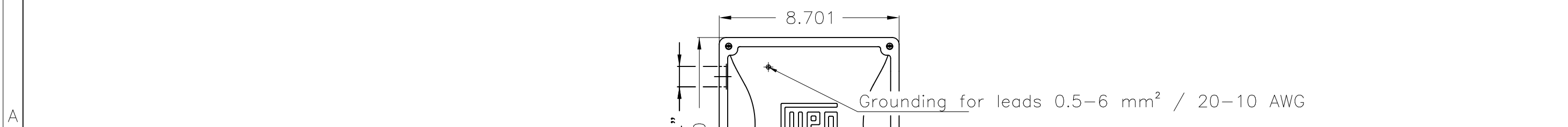


Performance : 115/208-230 V 60 Hz 4P

Rated current : 10.7/5.50-5.33 A  
 LRC : 8.4  
 Rated torque : 0.436 kgfm  
 Locked rotor torque : 270 %  
 Breakdown torque : 300 %  
 Rated speed : 1665 rpm

Moment of inertia (J) : 0.0055 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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DE Shaft End

E

Mounting NEMA F-1						
Mounting B3R(D)						
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	VER
EXECUTED	HYBRISUSER	SINGLE PH. MOTOR W22			00	
CHECKED		FRAME 143/5T IP55 TEFC				
RELEASED						
REL. DATE		WMO	Jaragua do Sul	Product Engineering		

1 HP 04 Poles 60 Hz

A

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