

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 00022 Single-Phase Product code : 15099818

Frame	: 213/5TC	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 12.5 HP (9.2 kW)	Temperature rise	: 125 K
Poles	: 4	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	: 54.5 A	Protection degree	: IP55
L. R. Amperes	: 436 A	Cooling method	: IC411 - TEFC
LRC	: 8.0x(Code K)	Mounting	: F-1
No load current	: 27.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1740 rpm	Noise level ²	: 63.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 5.21 kgfm	Approx. weight ³	: 95.7 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 240 %		
Insulation class	: H		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0543 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	77.0	81.5	82.5	Max. traction	: 183 kgf
Power Factor	0.75	0.84	0.89	Max. compression	: 279 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 2RS	6206 2RS
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 1 / 2 Revision		
Checked by				
Date	29/10/2024			

LOAD PERFORMANCE CURVE

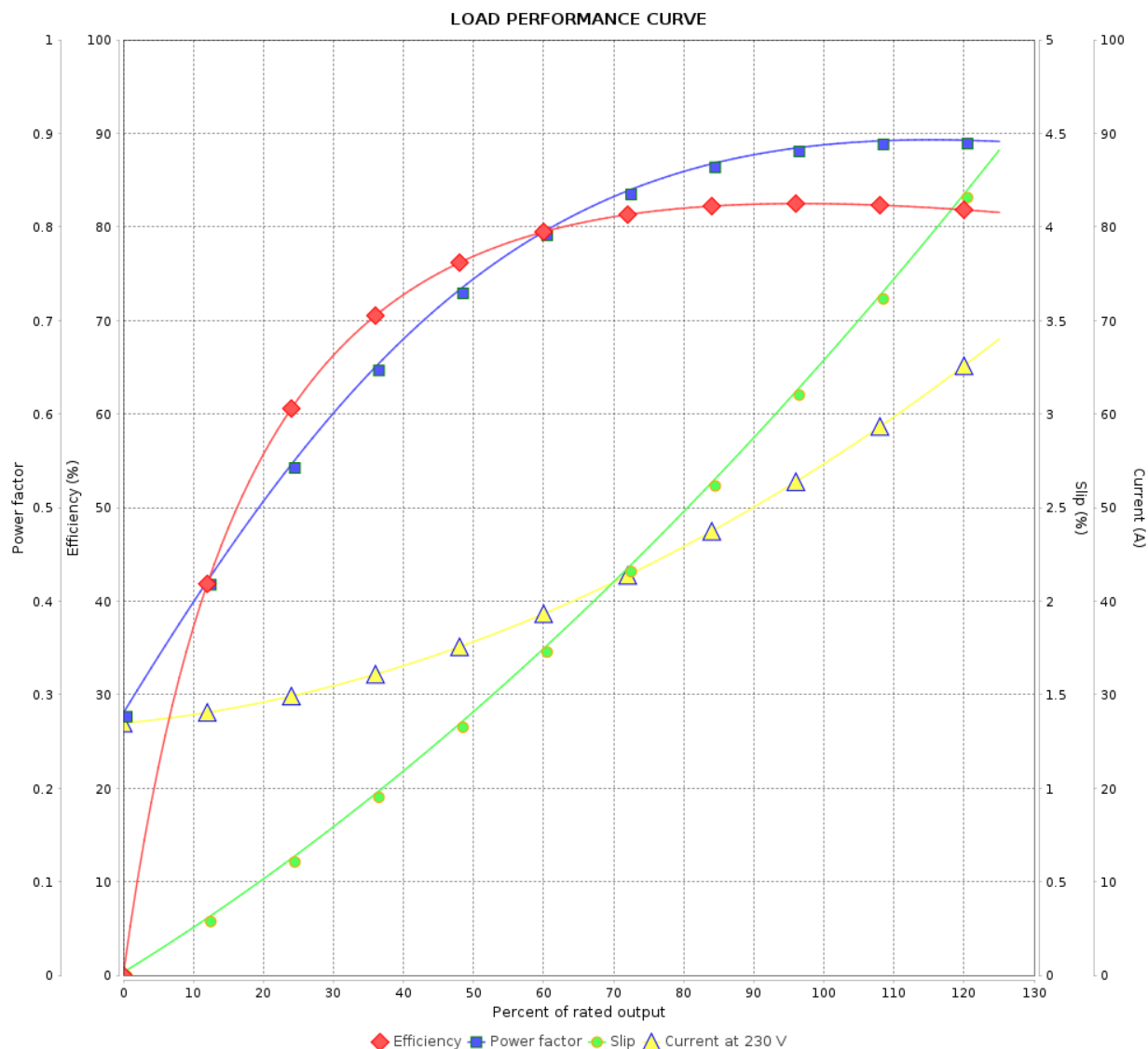
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Product code : 15099818

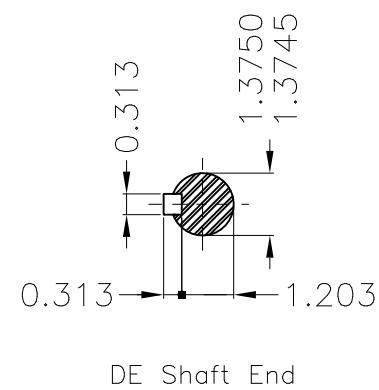
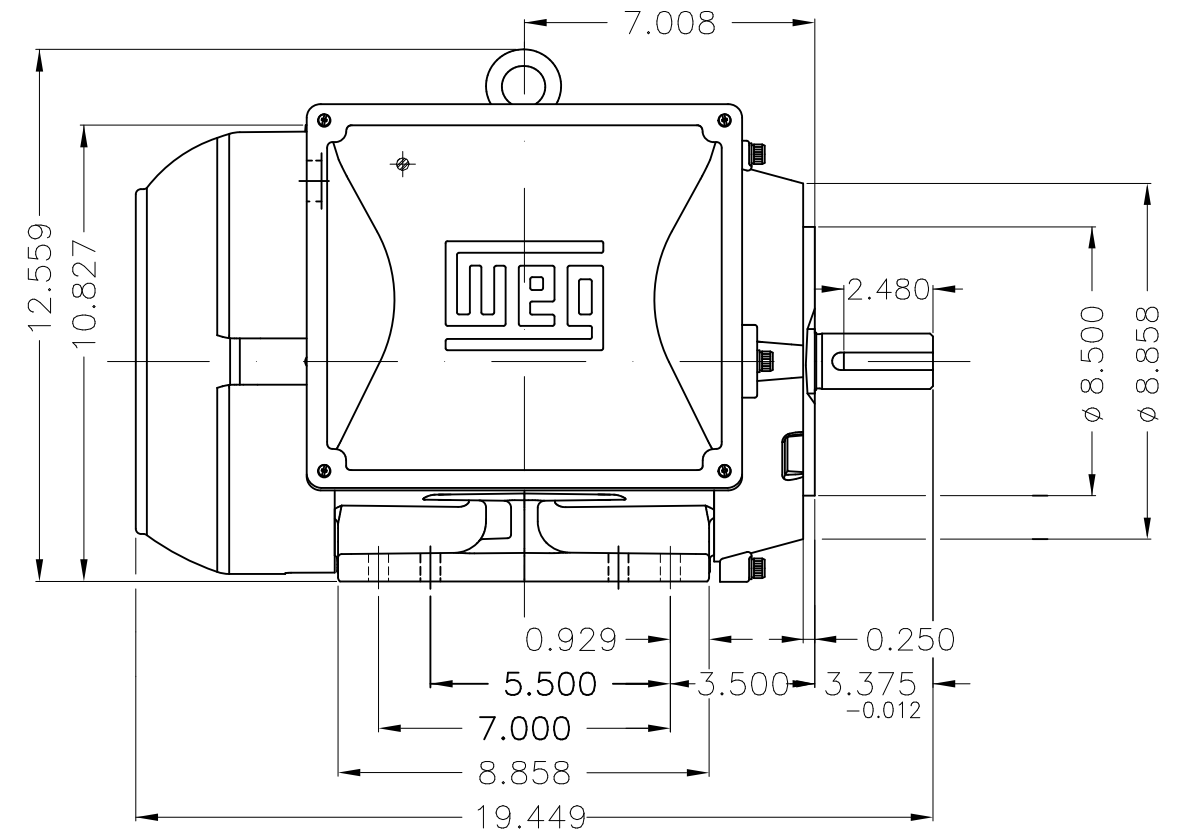
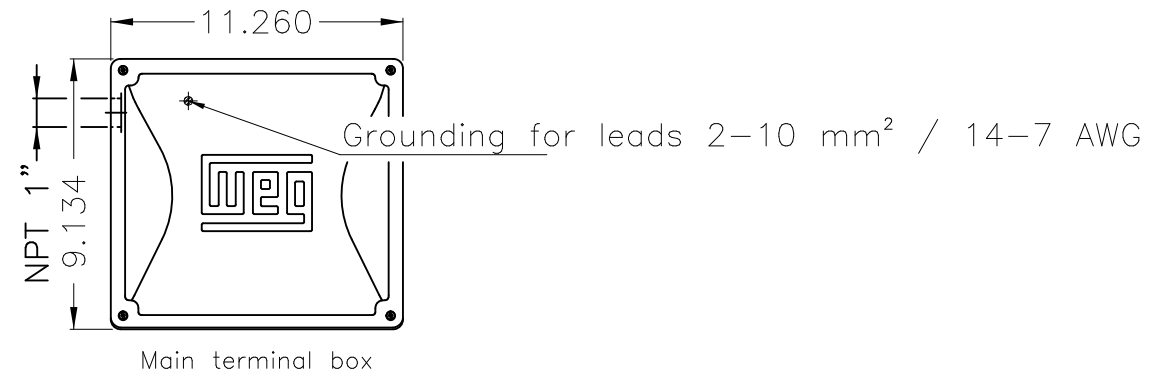
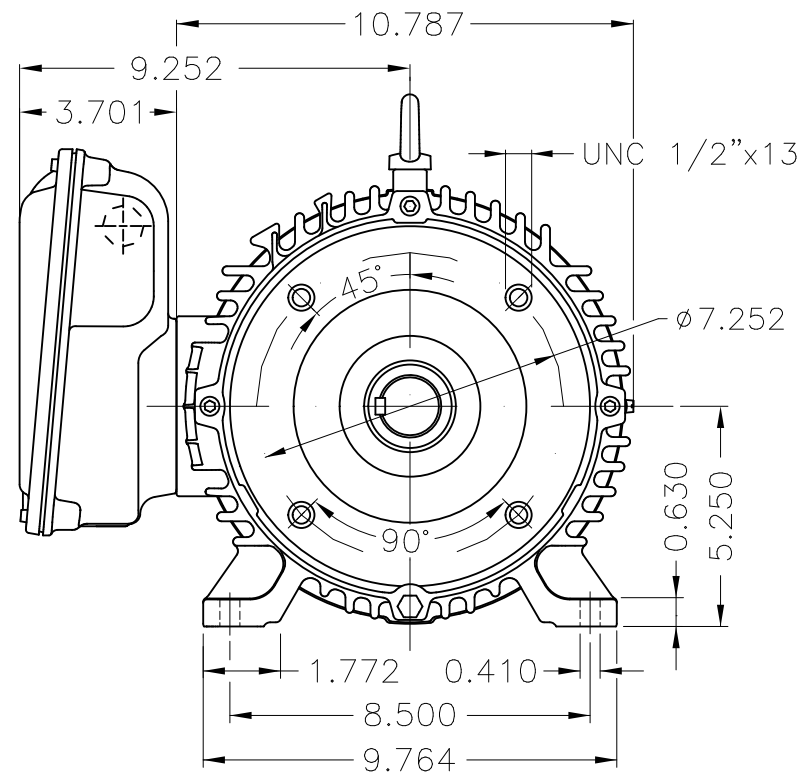


Performance : 230 V 60 Hz 4P

Rated current : 54.5 A
LRC : 8.0
Rated torque : 5.21 kgfm
Locked rotor torque : 220 %
Breakdown torque : 240 %
Rated speed : 1740 rpm

Moment of inertia (J) : 0.0543 kgm²
Duty cycle : Cont.(S1)
Insulation class : H
Service factor : 1.15
Temperature rise : 125 K

Rev.	Changes Summary		Performed	Checked	Date
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Date					



Mounting NEMA F-1									
Mounting B34R(D)									
				HYBRISUSER					00
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		SINGLE PH. MOTOR W22 FARM DUTY FRAME 213/5TC IP55 TEFC			PREVIEW WDD 00			
CHECKED									
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			