

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Single-Phase Product code : 14091668

Frame	: 213/5T	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 22.0-21.2/10.6 A	Protection degree	: IP55
L. R. Amperes	: 185-178/89.0 A	Cooling method	: IC411 - TEFC
LRC	: 8.4x(Code K)	Mounting	: F-1
No load current	: 6.47-7.50/3.75 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1175 rpm	Noise level <sup>2</sup>	: 63.0 dB(A)
Slip	: 2.08 %	Starting method	: Direct On Line
Rated torque	: 3.09 kgfm	Approx. weight <sup>3</sup>	: 84.8 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0836 kgm <sup>2</sup>		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	77.0	83.9	82.5	Max. traction	: 100 kgf
Power Factor	0.85	0.90	0.92	Max. compression	: 185 kgf

	Drive end	Non drive end
Bearing type	: 6308 ZZ	: 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				
Checked by			Page	Revision
Date	27/10/2024		1 / 2	

# LOAD PERFORMANCE CURVE

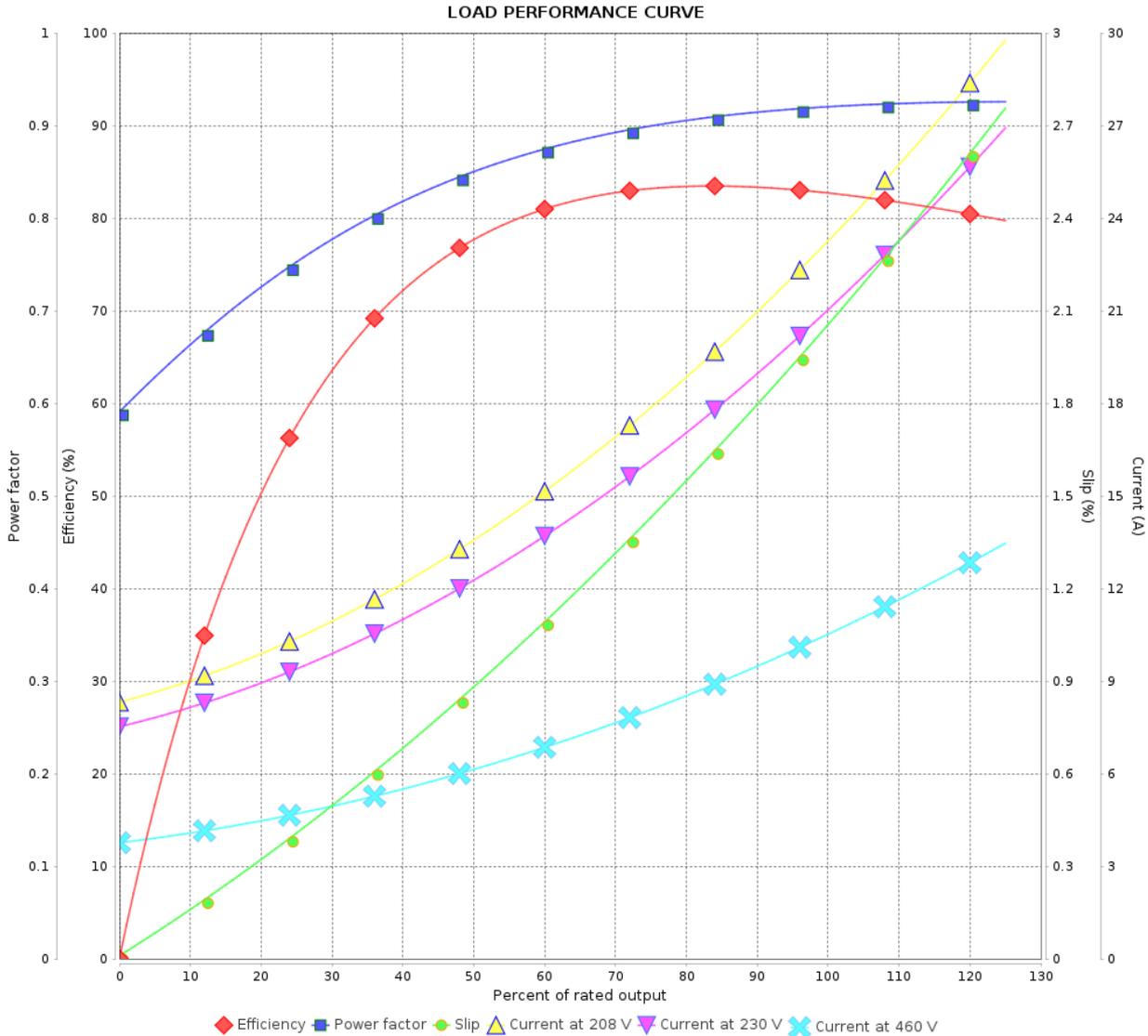
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase

Product code : 14091668



Performance : 208-230/460 V 60 Hz 6P

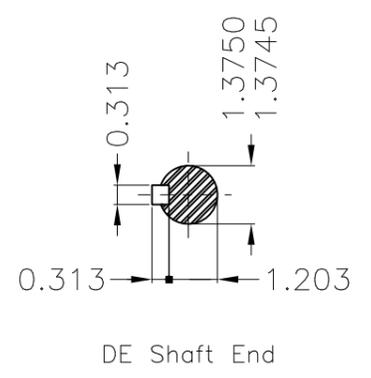
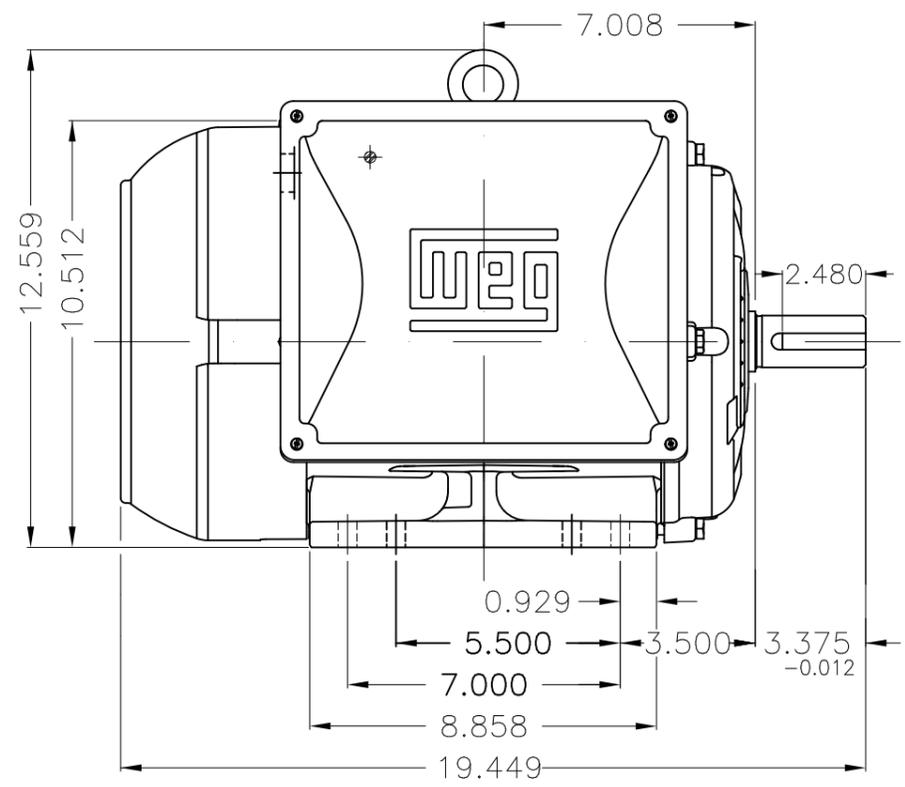
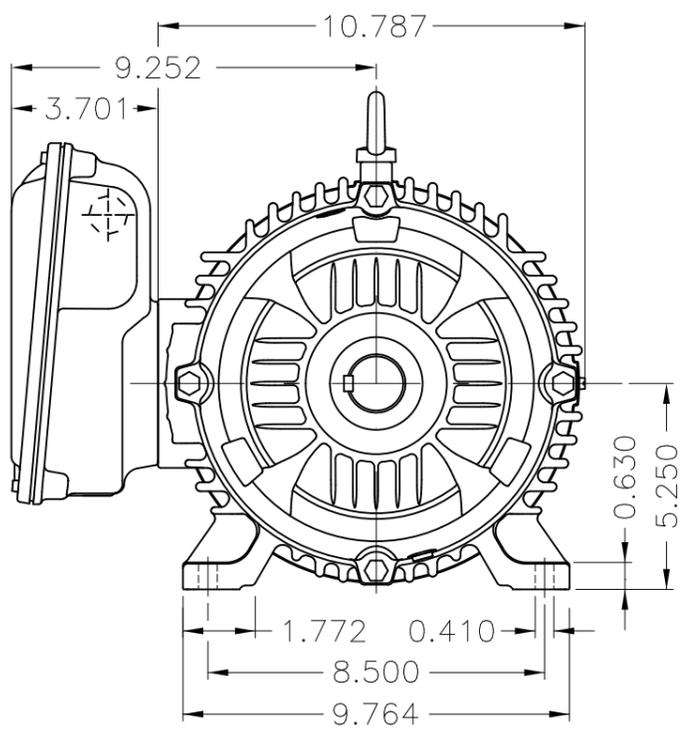
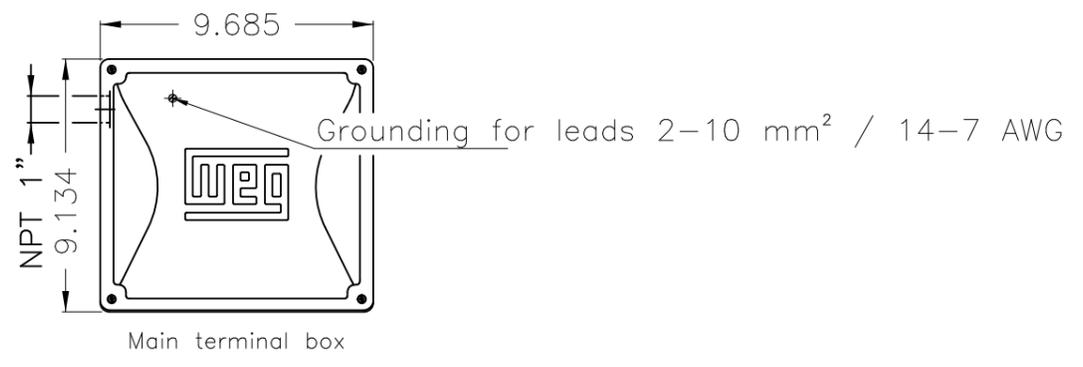
Rated current : 22.0-21.2/10.6 A  
 LRC : 8.4  
 Rated torque : 3.09 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 250 %  
 Rated speed : 1175 rpm

Moment of inertia (J) : 0.0836 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
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Date				

1 2 3 4 5 6

A  
B  
C  
D  
E



Mounting NEMA F-1					
Mounting B3R(D)					
				HYBRISUSER	00
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED
EXECUTED	HYBRISUSER	SINGLE PH. MOTOR W22			
CHECKED		FRAME 213/5T IP55 TEFC			
RELEASED					
REL. DATE		WMO	Jaragua do Sul	Product Engineering	
				PREVIEW	
				WDD	00
				SHEET 1 / 1	

5 HP 06 Poles 60 Hz

A

