

DATA SHEET



Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Single-Phase Product code : 13671588

Frame	: 213/5T	Locked rotor time	: 14s (cold) 8s (hot)
Output	: 12.5 HP (9.2 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 51.8-46.0/23.0 A	Protection degree	: IP55
L. R. Amperes	: 378-336/168 A	Cooling method	: IC411 - TEFC
LRC	: 7.3x(Code G)	Mounting	: F-1
No load current	: 4.91-5.70/2.85 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3510 rpm	Noise level ²	: 72.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 2.58 kgfm	Approx. weight ³	: 84.2 kg
Locked rotor torque	: 210 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0285 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	86.0	88.0	88.5	Max. traction	: 91 kgf
Power Factor	0.98	0.98	0.98	Max. compression	: 176 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	28/10/2024		1 / 2	

LOAD PERFORMANCE CURVE

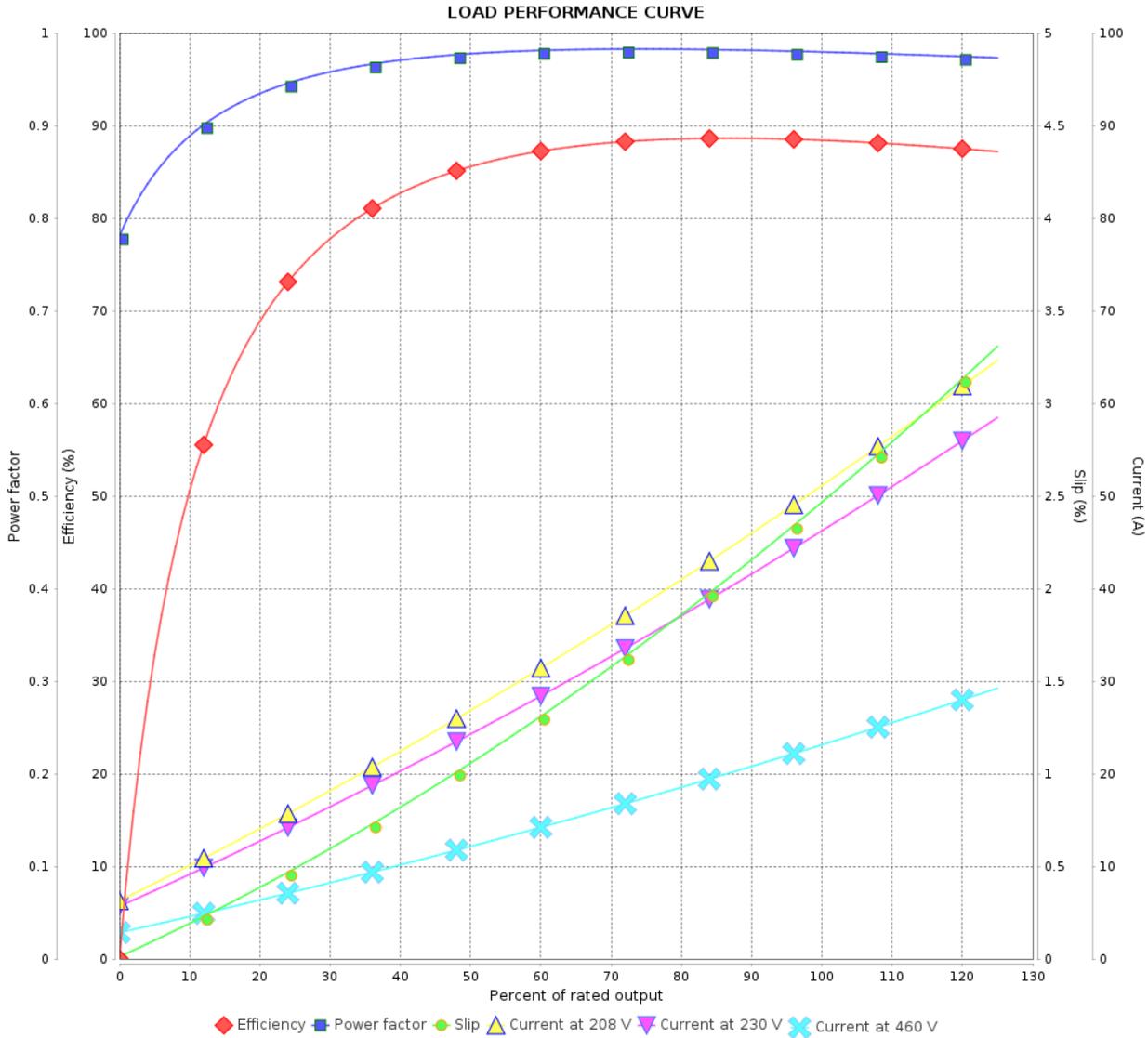
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase

Product code : 13671588



Performance : 208-230/460 V 60 Hz 2P

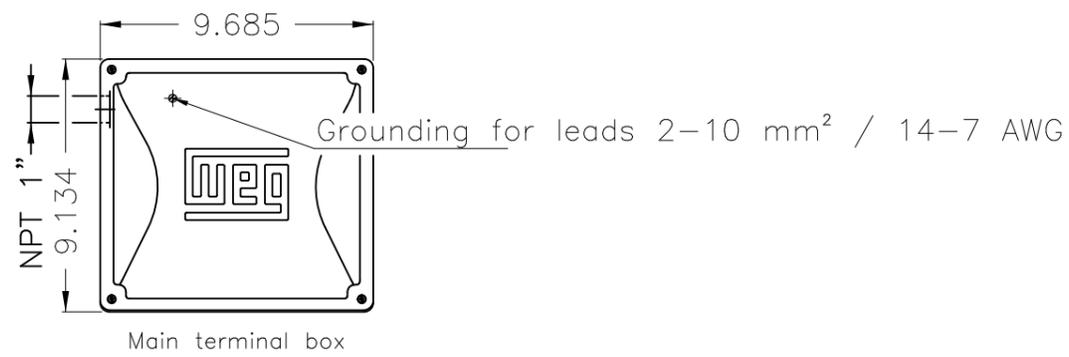
Rated current : 51.8-46.0/23.0 A
 LRC : 7.3
 Rated torque : 2.58 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 280 %
 Rated speed : 3510 rpm

Moment of inertia (J) : 0.0285 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

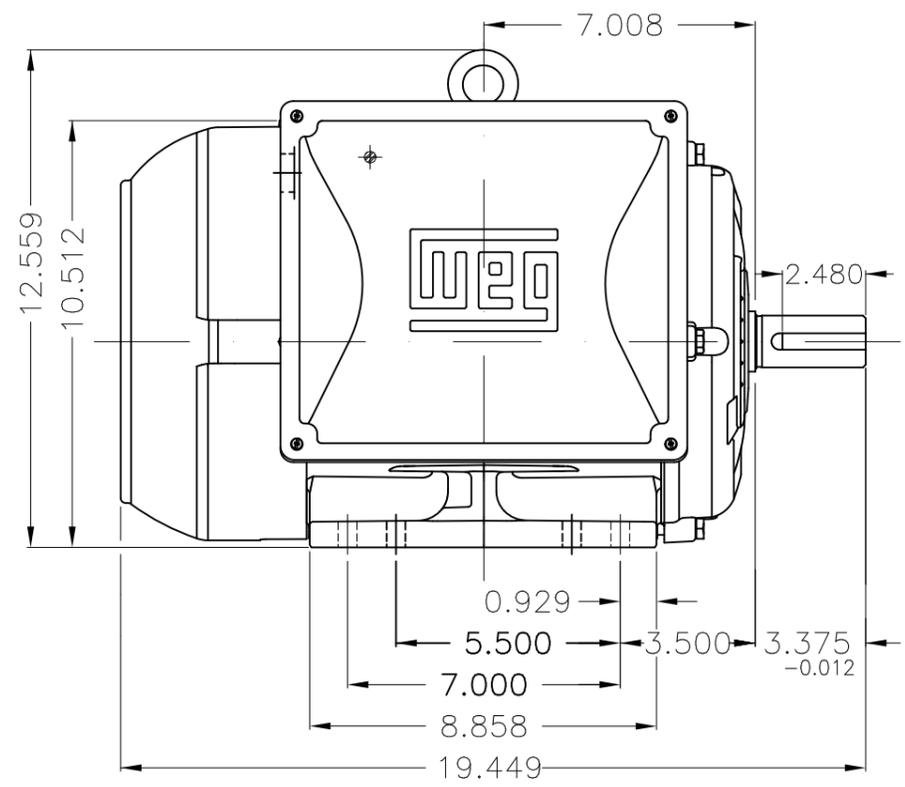
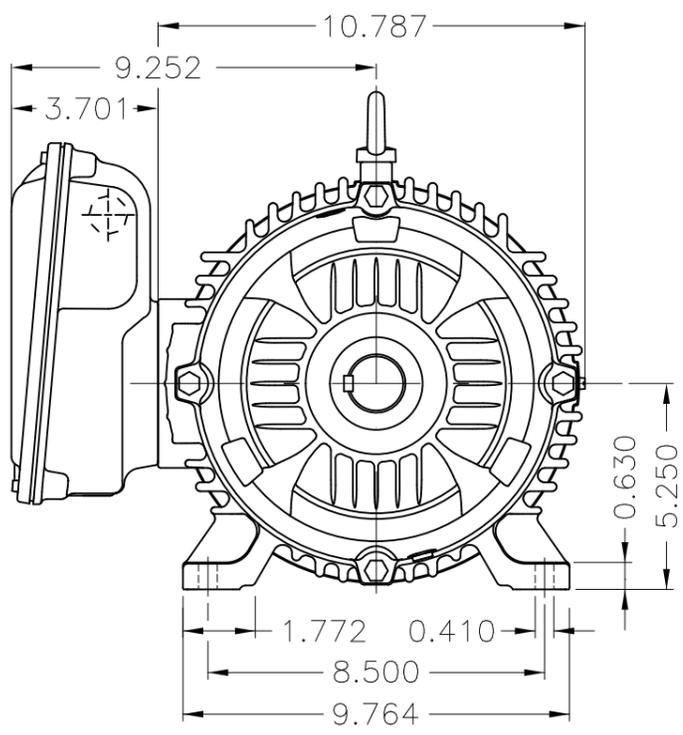
Rev.	Changes Summary	Performed	Checked	Date
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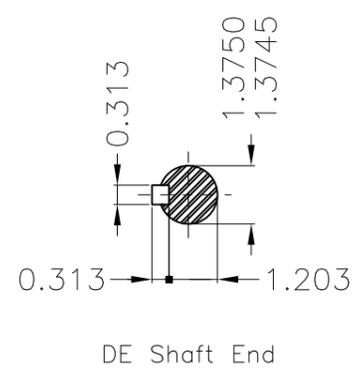
A



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	

12.5 HP 02 Poles 60 Hz

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