

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : General Single-Phase Product code : 12235450

Frame	: G143/5TC	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 105 K
Poles	: 2	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	: 26.0/14.0-13.0 A	Protection degree	: IP55
L. R. Amperes	: 203/109-101 A	Cooling method	: IC411 - TEFC
LRC	: 7.8x(Code J)	Mounting	: F-1
No load current	: 9.00/3.88-4.50 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3480 rpm	Noise level ²	: 60.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 0.626 kgfm	Approx. weight ³	: 25.9 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0040 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	75.0	79.0	80.0	Max. traction	: 31 kgf
Power Factor	0.82	0.90	0.93	Max. compression	: 57 kgf

	Drive end	Non drive end
Bearing type	: 6205 ZZ	6203 ZZ
Sealing	: Oil Seal	Oil Seal
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				
Date	26/10/2024			

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Revision

LOAD PERFORMANCE CURVE

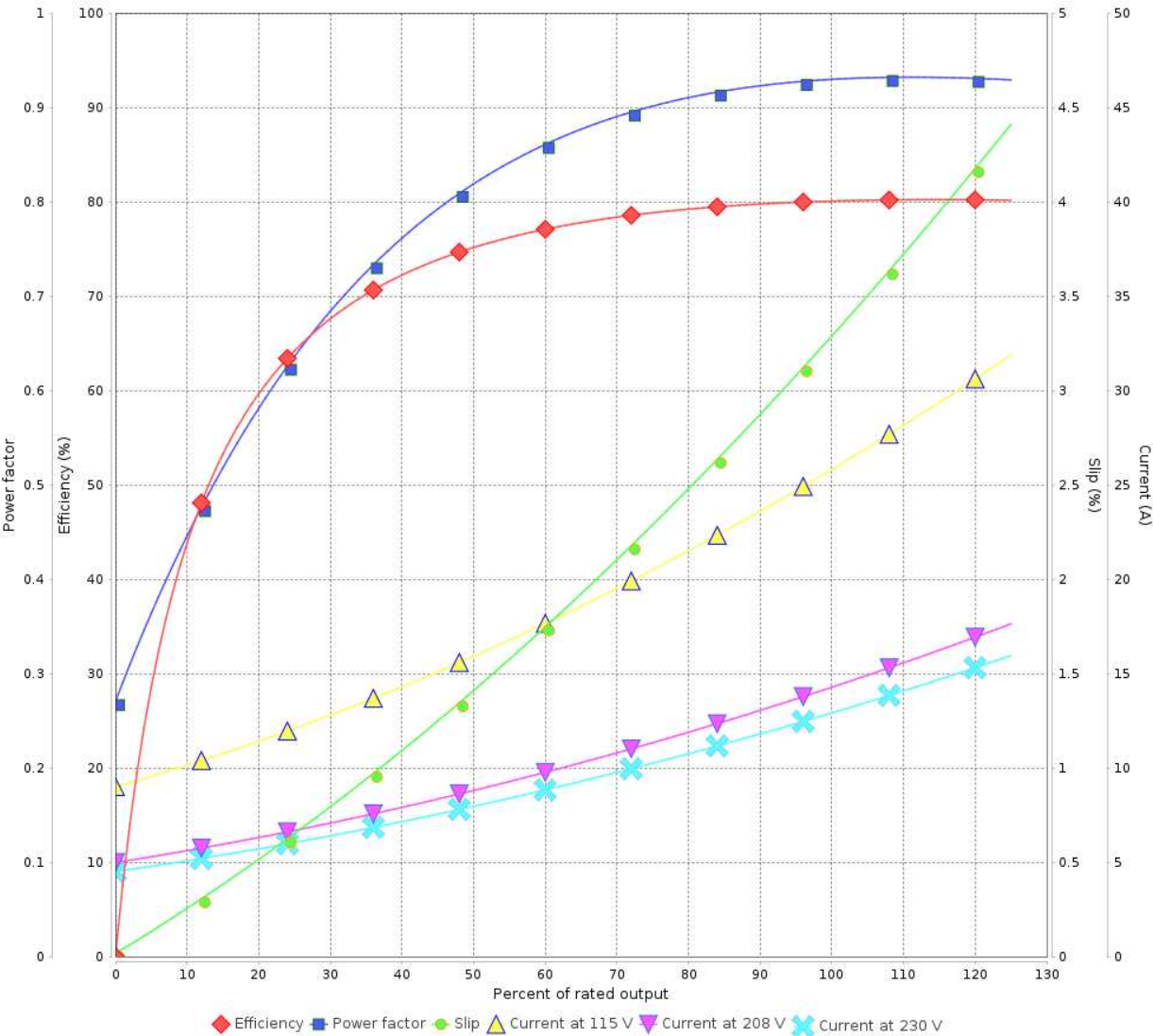
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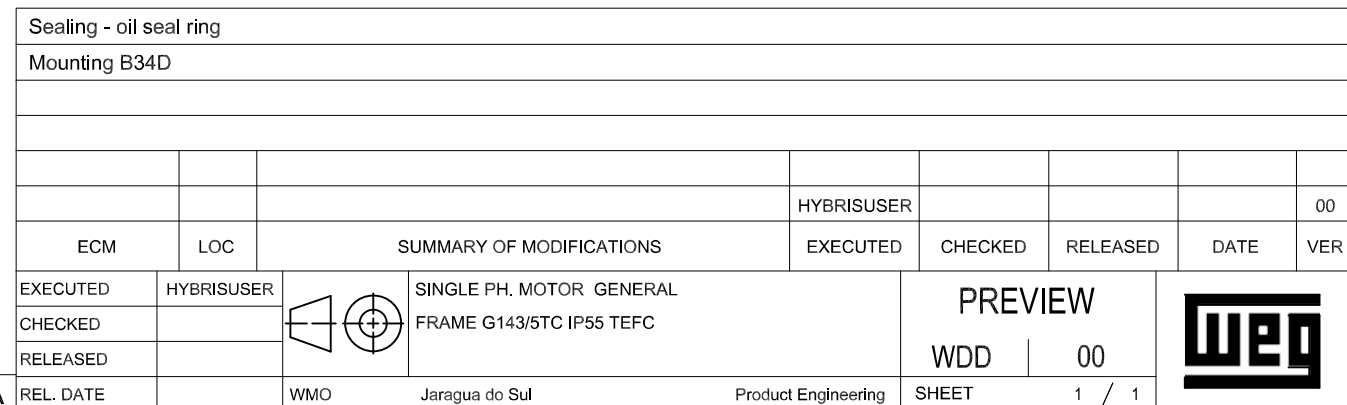
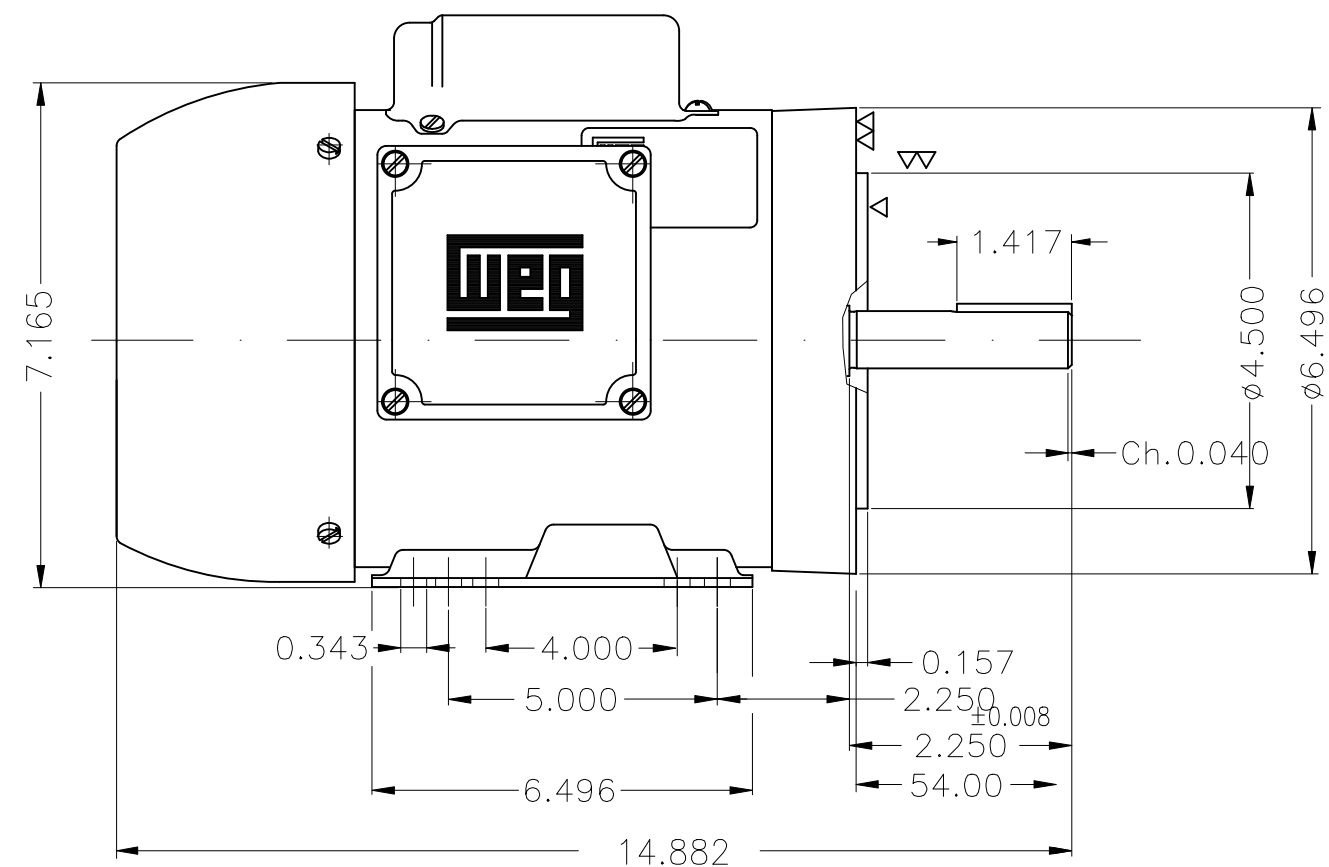


Performance : 115/208-230 V 60 Hz 2P

Rated current : 26.0/14.0-13.0 A
LRC : 7.8
Rated torque : 0.626 kgfm
Locked rotor torque : 250 %
Breakdown torque : 250 %
Rated speed : 3480 rpm

Moment of inertia (J) : 0.0040 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor :
Temperature rise : 105 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 2Revision		
Checked by				
Date	26/10/2024			



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Dimensions in inches

XME A3