

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : General Single-Phase Product code : 10795759

Frame	: G143/5TC	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 2 HP (1.5 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	: 21.0/10.8-10.5 A	Protection degree	: IP55
L. R. Amperes	: 145/74.5-72.5 A	Cooling method	: IC411 - TEFC
LRC	: 6.9x(Code K)	Mounting	: F-1
No load current	: 12.4/5.35-6.20 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1750 rpm	Noise level ²	: 55.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 0.829 kgfm	Approx. weight ³	: 24.8 kg
Locked rotor torque	: 280 %		
Breakdown torque	: 250 %		
Insulation class	: B		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0090 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	74.0	78.0	78.1	Max. traction	: 46 kgf
Power Factor	0.60	0.71	0.78	Max. compression	: 71 kgf

		<u>Drive end</u>	<u>Non drive end</u>
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		Page 1 / 2 Revision		
Checked by				
Date	26/10/2024			

LOAD PERFORMANCE CURVE

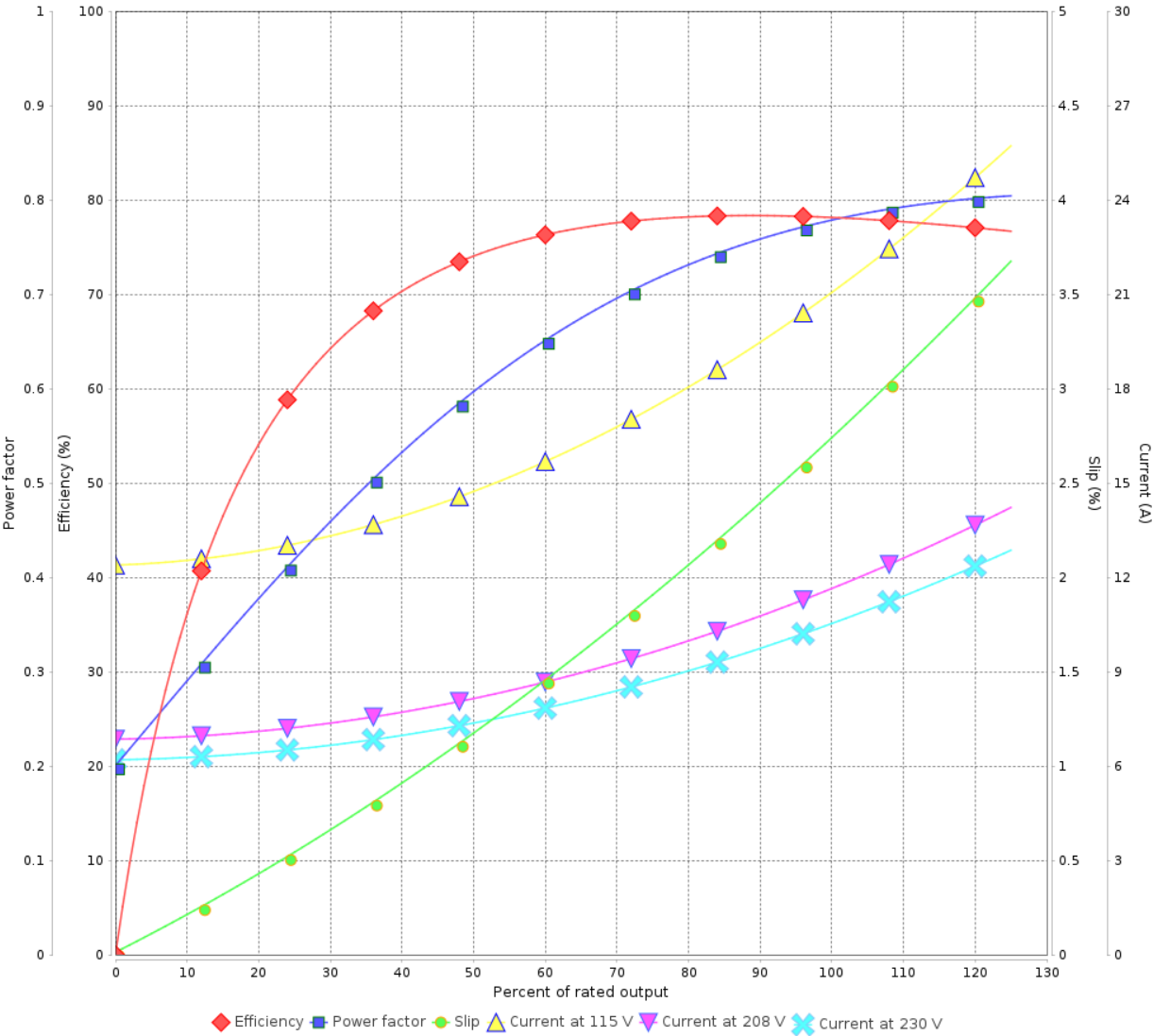
Single Phase Induction Motor - Squirrel Cage



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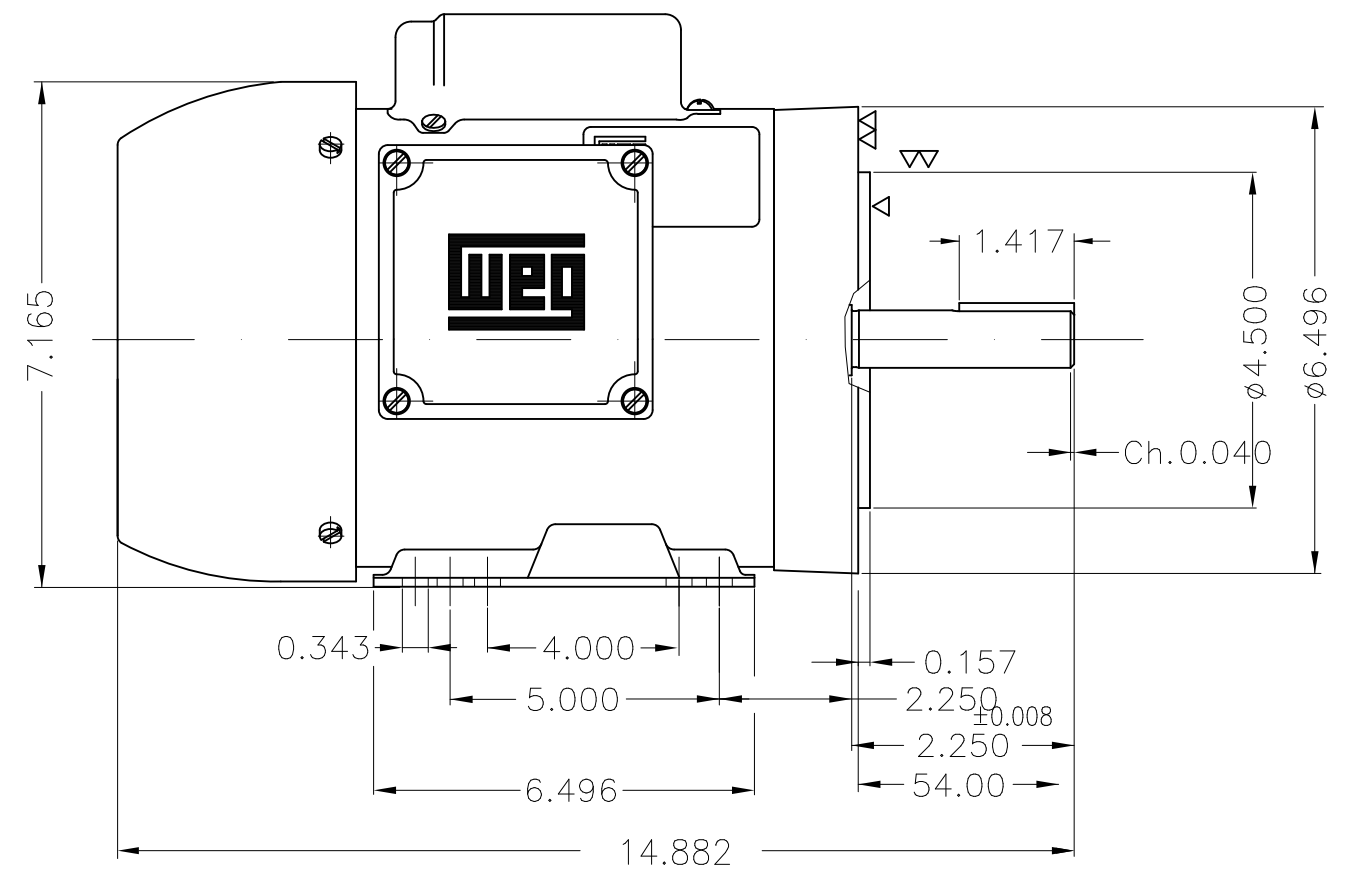
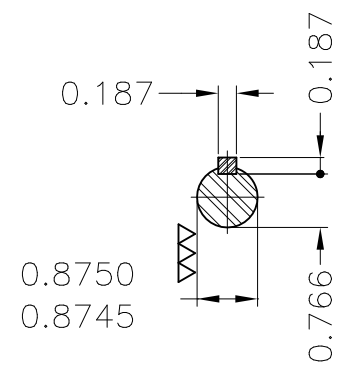
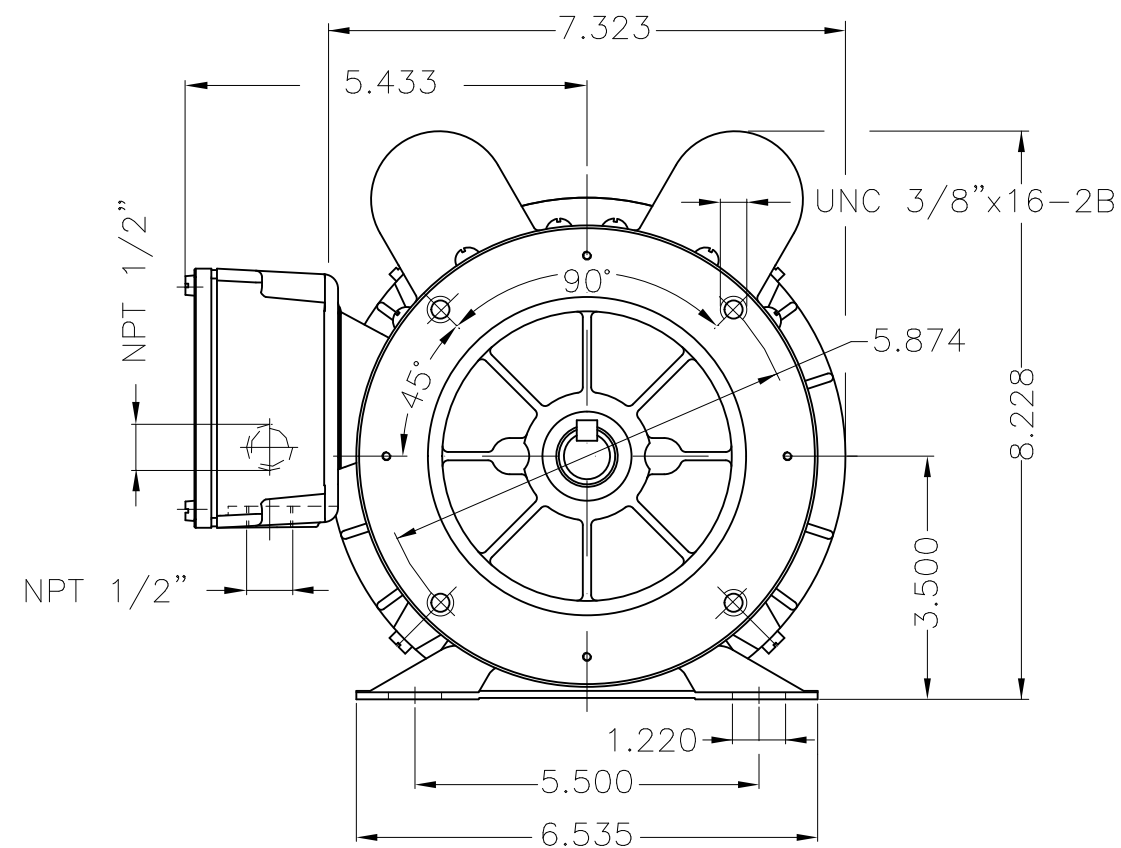
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Performance : 115/208-230 V 60 Hz 4P			
Rated current	: 21.0/10.8-10.5 A	Moment of inertia (J)	: 0.0090 kgm²
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 0.829 kgfm	Insulation class	: B
Locked rotor torque	: 280 %	Service factor	:
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm		

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Performed by		Page 2 / 2 Revision		
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Mounting B34R(D)									
				HYBRISUSER					00
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		SINGLE PH. MOTOR GENERAL FRAME G143/5TC IP55 TEFC			PREVIEW WDD 00			
CHECKED									
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			