

DATA SHEET



Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : Farm Duty Single-Phase Product code : 10483392

Frame	: F143T	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 115/230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 14.0/7.00 A	Protection degree	: IP55
L. R. Amperes	: 91.0/45.5 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code M)	Mounting	: F-1
No load current	: 11.5/5.75 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	: 0.415 kgfm	Approx. weight ³	: 17.5 kg
Locked rotor torque	: 320 %		
Breakdown torque	: 270 %		
Insulation class	: B		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0056 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	60.0	67.0	70.3	Max. traction	: 27 kgf
Power Factor	0.45	0.56	0.65	Max. compression	: 44 kgf

	Drive end	Non drive end
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.

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LOAD PERFORMANCE CURVE

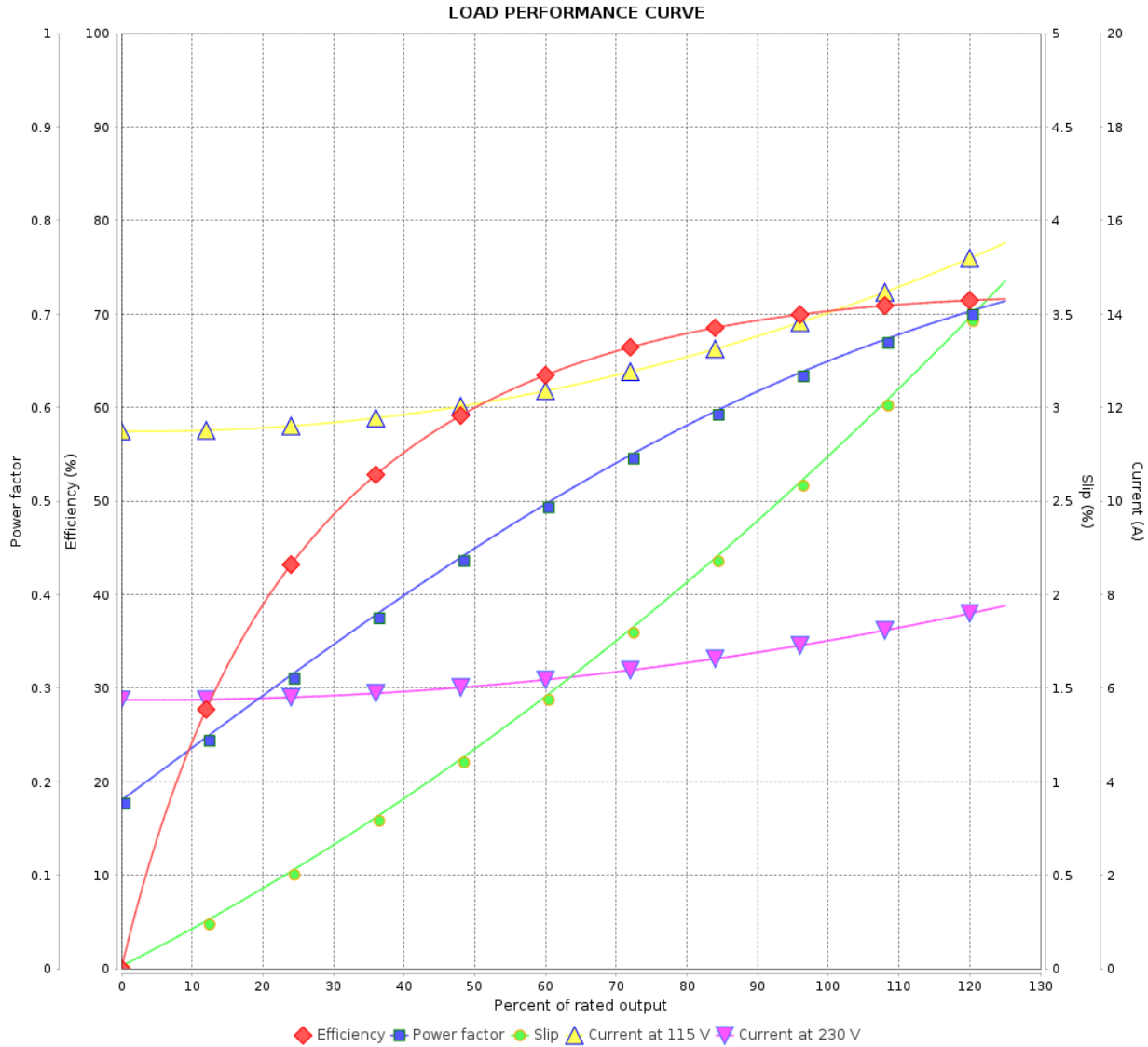
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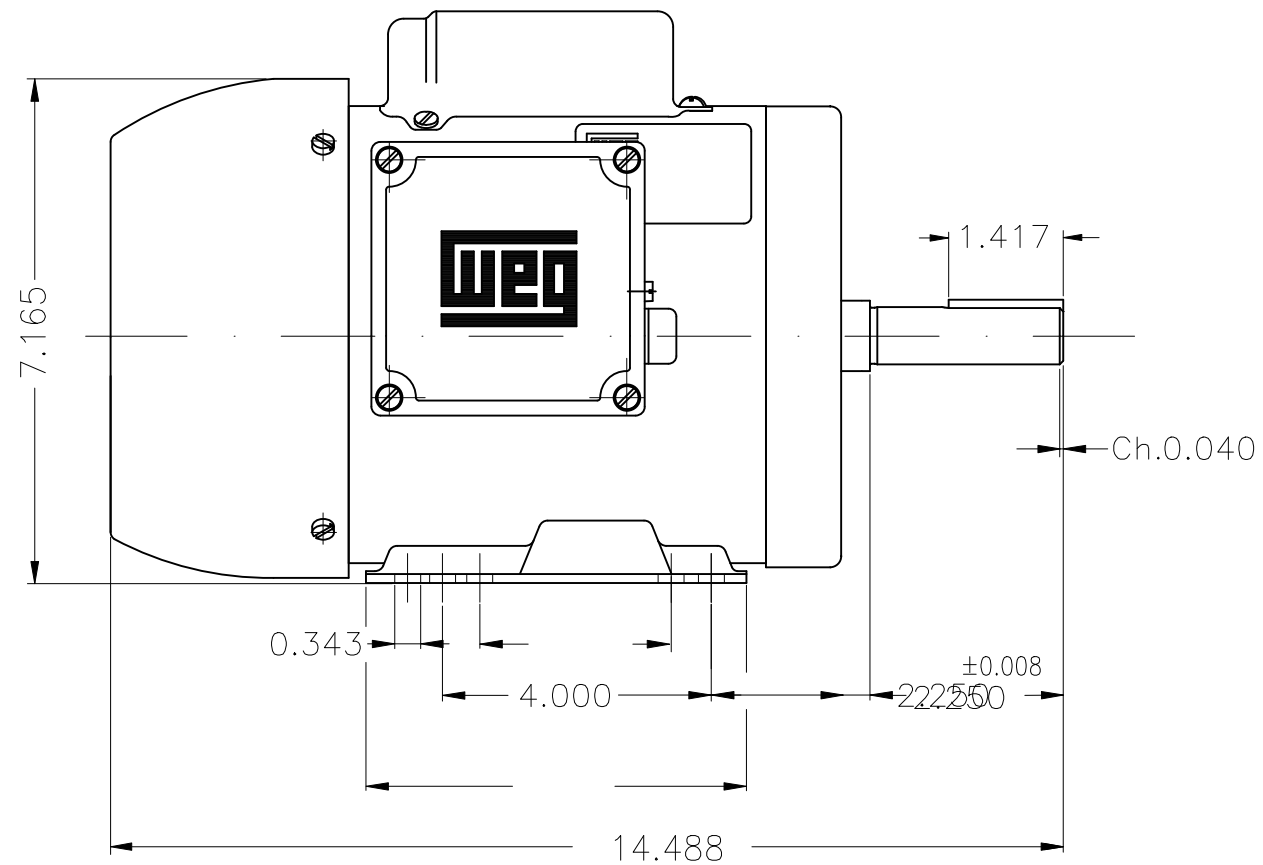
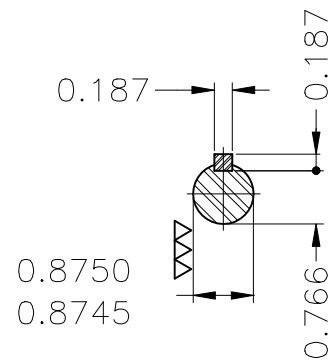
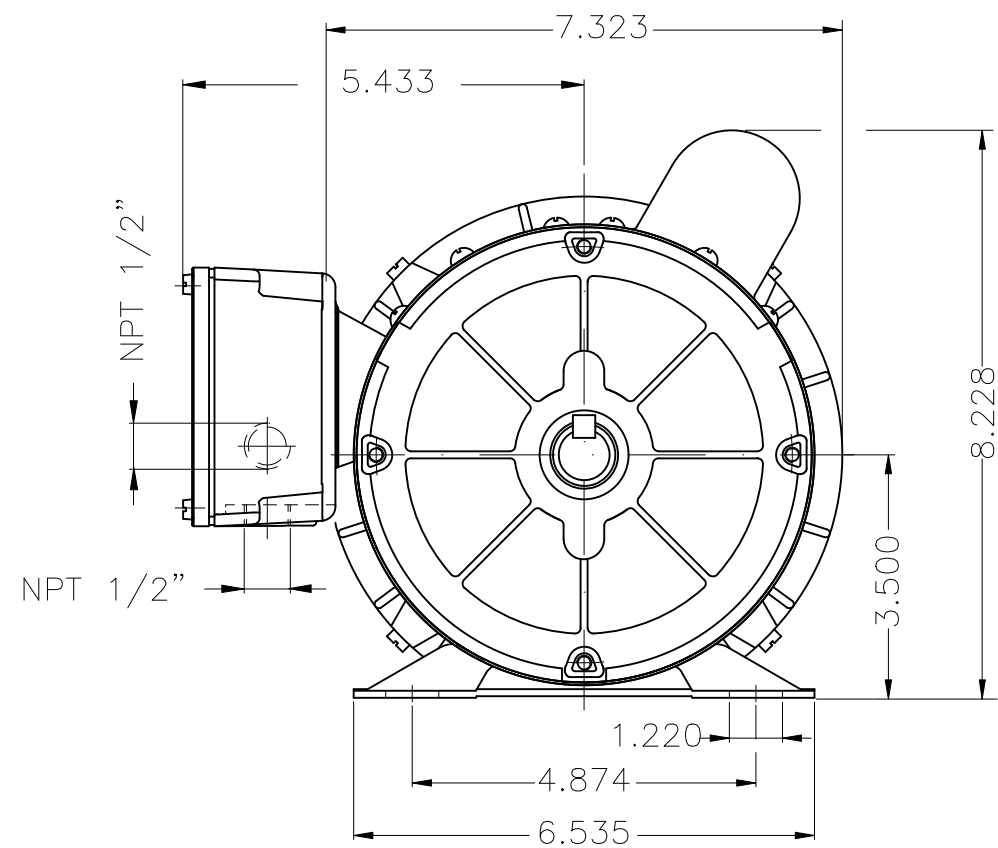


Performance : 115/230 V 60 Hz 4P

Rated current : 14.0/7.00 A
 LRC : 6.5
 Rated torque : 0.415 kgfm
 Locked rotor torque : 320 %
 Breakdown torque : 270 %
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0056 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : B
 Service factor : 1.15
 Temperature rise : 80 K

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Mounting B3R(D)									
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	SINGLE PH. MOTOR FARM DUTY							
CHECKED		FRAME F143T IP55 TEFC							
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering					

1 HP 04 Poles 60 Hz

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