

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General High Efficiency Three-Phase Product code : 11994480

Frame	: E143/5TC	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 5.00/2.50 A	Protection degree	: IP21
L. R. Amperes	: 45.0/22.5 A	Cooling method	: IC01 - ODP
LRC	: 9.0x(Code K)	Mounting	: F-1
No load current	: 2.00/1.00 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3430 rpm	Noise level ²	: 60.0 dB(A)
Slip	: 4.72 %	Starting method	: Direct On Line
Rated torque	: 0.423 kgfm	Approx. weight ³	: 0.0 kg
Locked rotor torque	: 450 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0025 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads
Efficiency (%)	84.0	85.5	85.5	Max. traction : 42 kgf
Power Factor	0.73	0.83	0.88	Max. compression : 42 kgf

	Drive end	Non drive end
Bearing type	: 6205 ZZ	6204 ZZ
Sealing	: Without Bearing Seal	Without Bearing Seal
Lubrication interval	: -	-
Lubricant amount	: -	-
Lubricant type	: Mobil Polyrex EM	

Notes

USABLE @208V 5.50A SF 1.00 SFA 5.50A

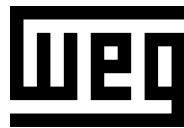
This revision replaces and cancel the previous one, which must be eliminated.

- (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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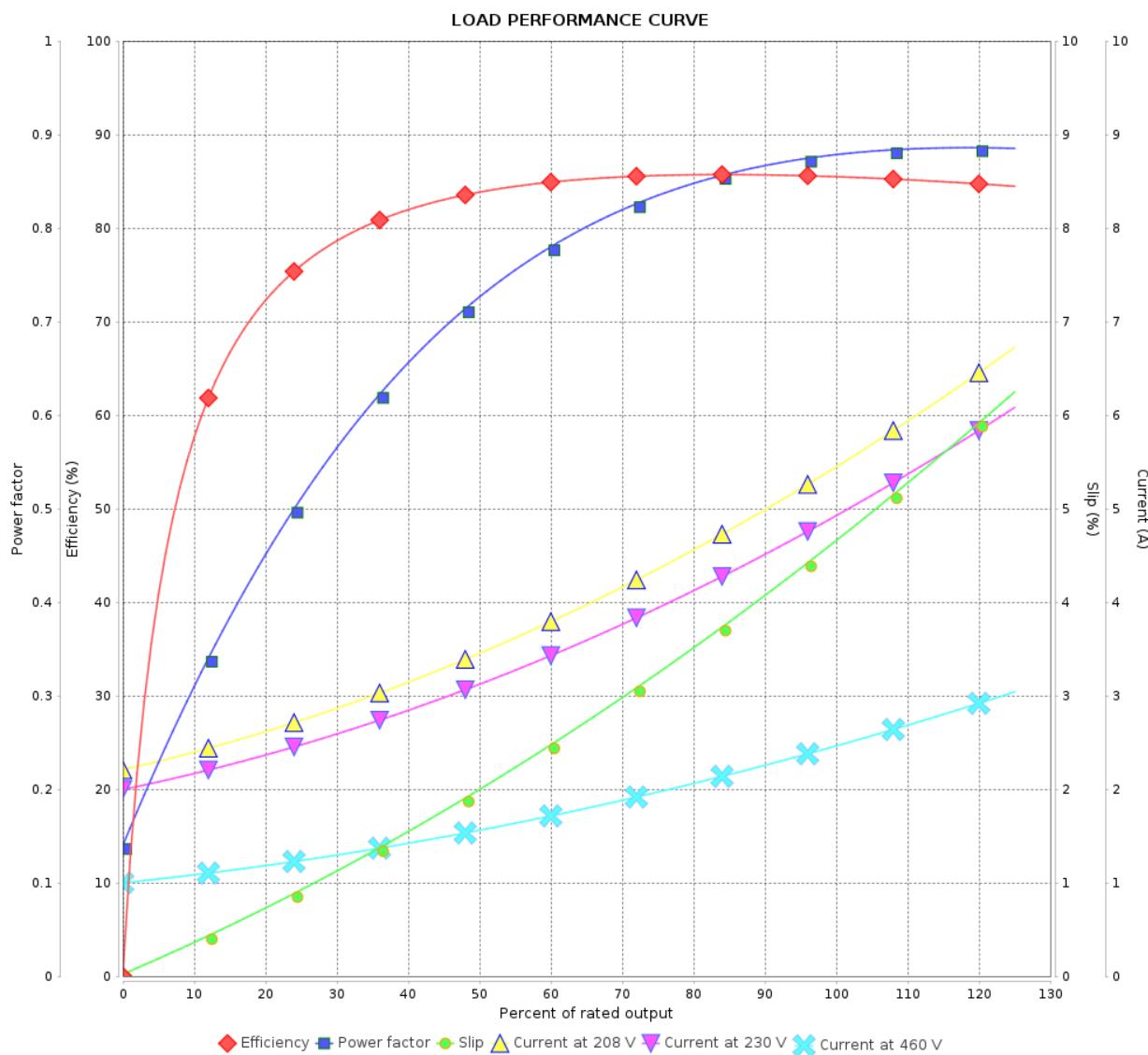
LOAD PERFORMANCE CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

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Performance : 230/460 V 60 Hz 2P

Rated current	: 5.00/2.50 A
LRC	: 9.0
Rated torque	: 0.423 kgfm
Locked rotor torque	: 450 %
Breakdown torque	: 350 %
Rated speed	: 3430 rpm

Moment of inertia (J)	: 0.0025 kgm ²
Duty cycle	: Cont.(S1)
Insulation class	: F
Service factor	:
Temperature rise	: 80 K
Design	: B

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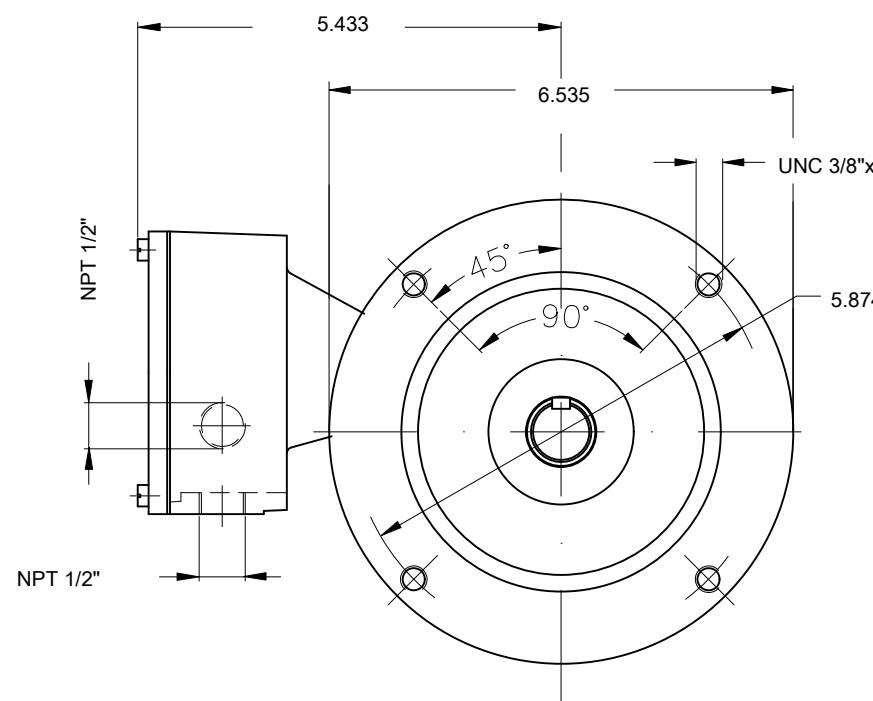
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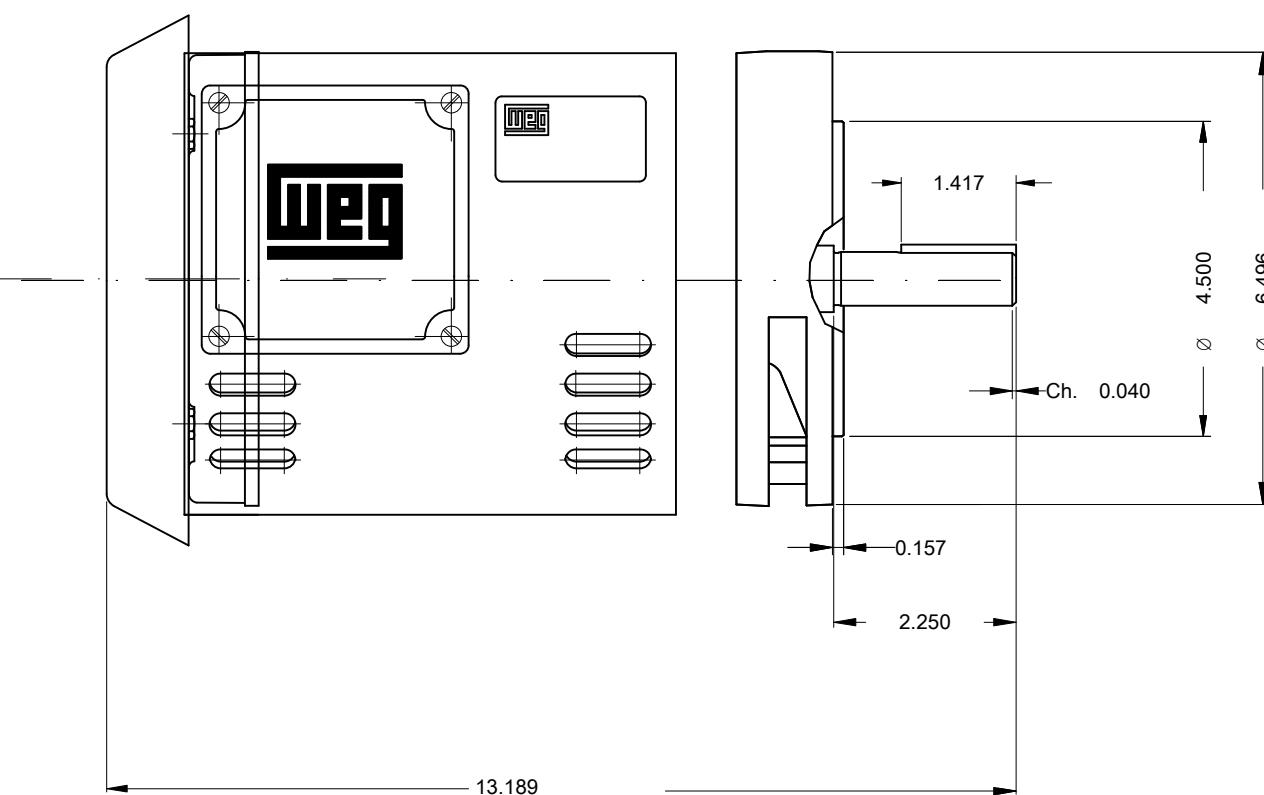
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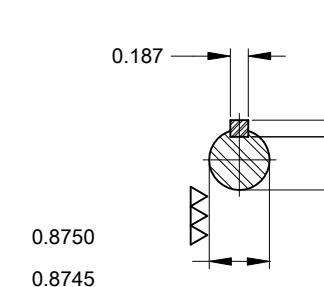
A



B



C



D

E

With drip cover

Mounting B14R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	HYBRISUSER	EXECUTED	CHECKED	RELEASED	DATE	VER
		THREE PH. MOTOR GENERAL HIGH EFF. FRAME E143/5TC IP21 ODP					00	
EXECUTED	HYBRISUSER							
CHECKED								
RELEASED								

2 HP 02 Poles 60 Hz

A

REL. DATE

WMO

Jaragua do Sul

Product Engineering

SHEET

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Dimensions in inches