

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : General NEMA Premium Efficiency Three-Phase Product code : 11744303

Frame	: E143/5T	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 1.49 A	Protection degree	: IP21
L. R. Amperes	: 13.4 A	Cooling method	: IC01 - ODP
LRC	: 9.0x(Code K)	Mounting	: F-1
No load current	: 0.624 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3430 rpm	Noise level ²	: 58.0 dB(A)
Slip	: 4.72 %	Starting method	: Direct On Line
Rated torque	: 0.317 kgfm	Approx. weight ³	: 16.8 kg
Locked rotor torque	: 400 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0022 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	82.5	85.5	85.5	Max. traction	: 23 kgf
Power Factor	0.70	0.80	0.87	Max. compression	: 40 kgf

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: 6205 ZZ	: 6204 ZZ
Sealing	: Without Bearing Seal	: Without Bearing 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			Page	Revision
Date	19/10/2024		1 / 2	

LOAD PERFORMANCE CURVE

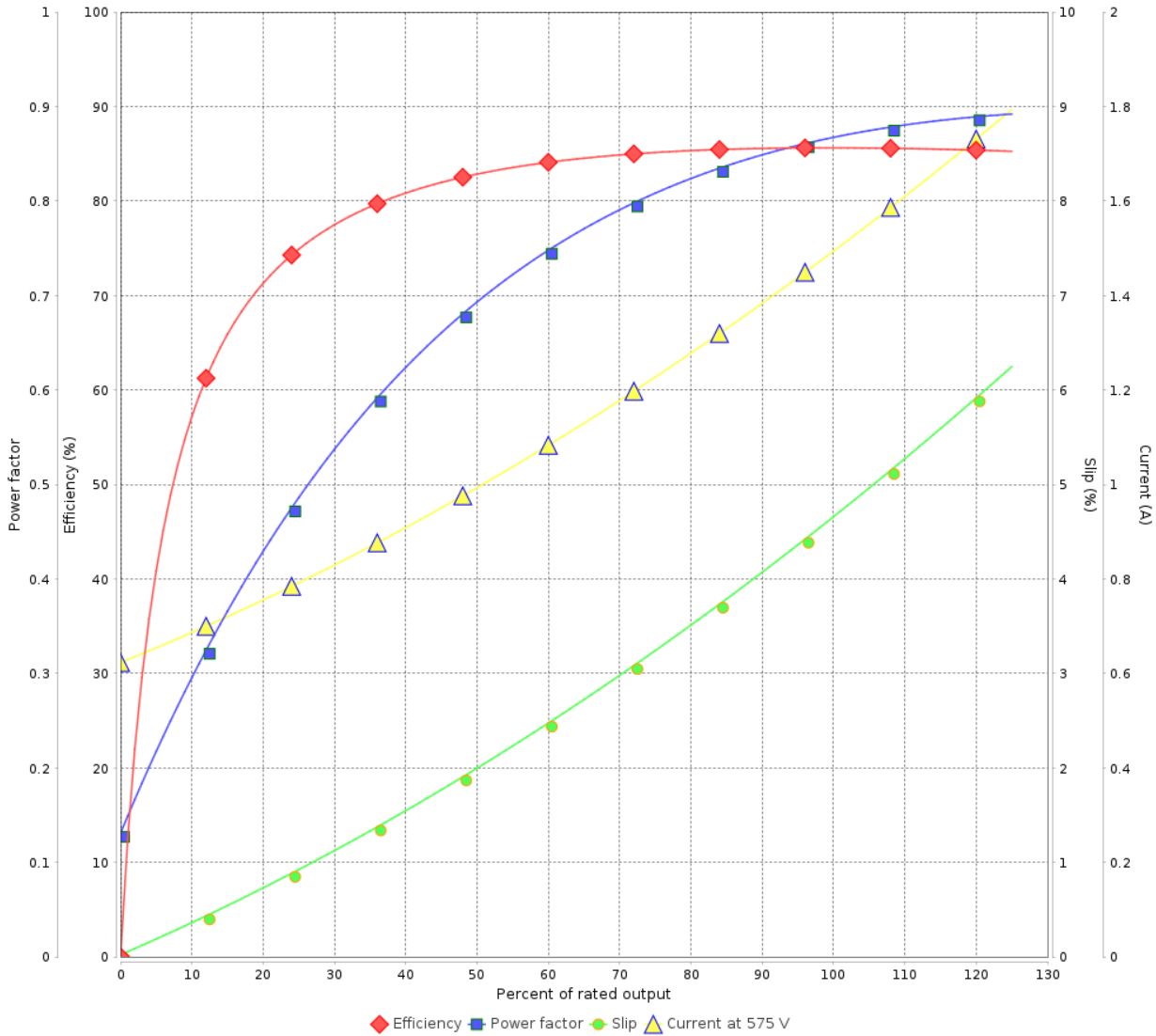
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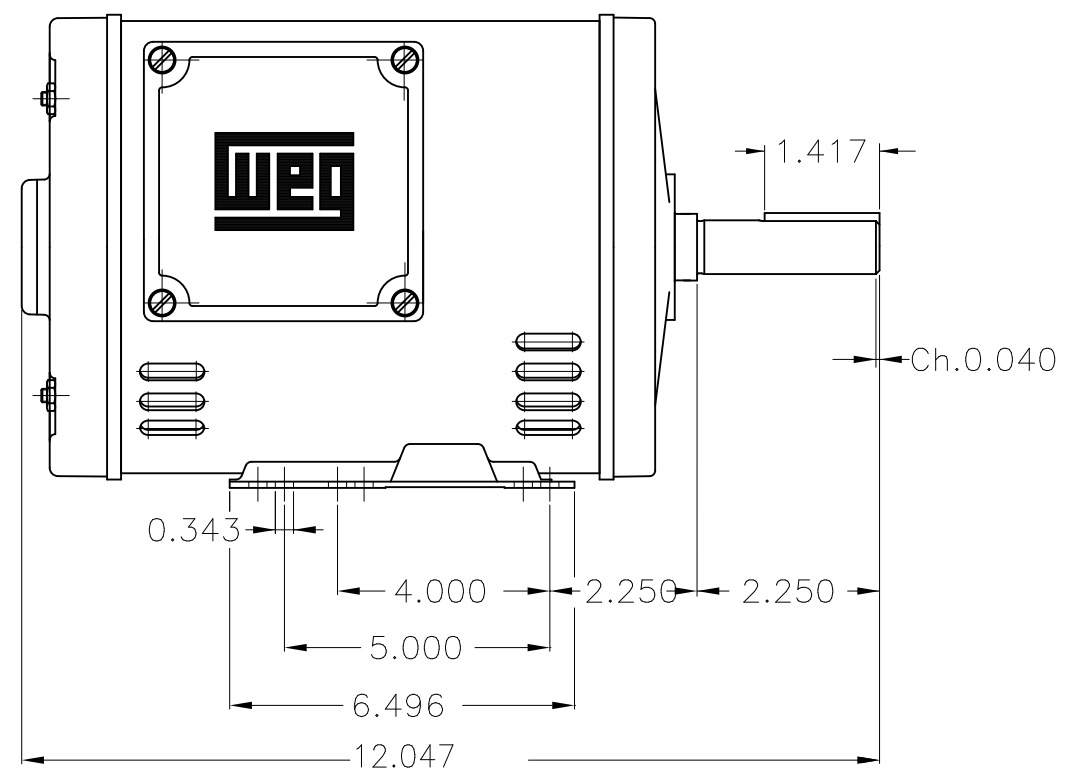
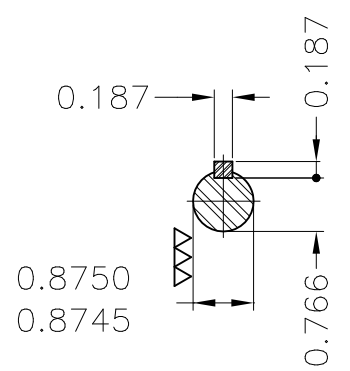
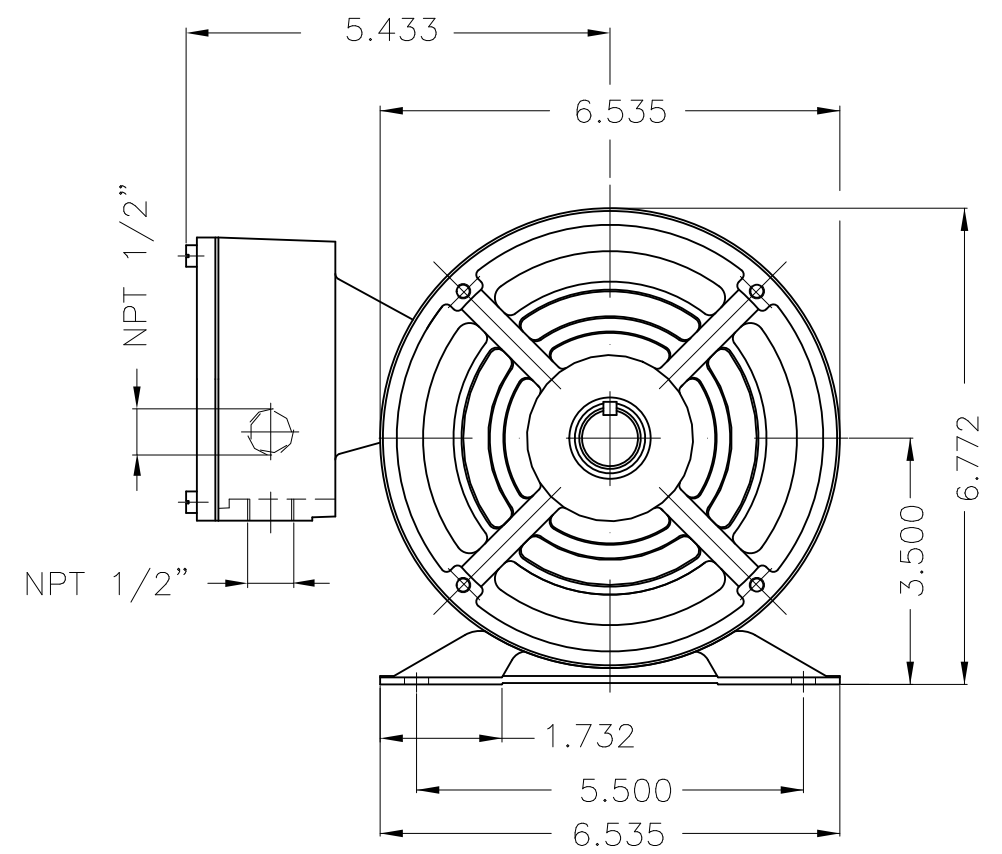
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Performance : 575 V 60 Hz 2P

Rated current	: 1.49 A	Moment of inertia (J)	: 0.0022 kgm ²
LRC	: 9.0	Duty cycle	: Cont.(S1)
Rated torque	: 0.317 kgfm	Insulation class	: F
Locked rotor torque	: 400 %	Service factor	: 1.15
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 3430 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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Mounting B3R(D)						
					HYBRISUSER	00
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED
EXECUTED	HYBRISUSER	THREE PH. MOTOR GENERAL NEMA PREM. EFF.			PREVIEW	
CHECKED		FRAME E143/5T IP21 ODP			WDD	00
RELEASED					SHEET	1 / 1
REL. DATE		WMO	Jaragua do Sul	Product Engineering		

1.5 HP 02 Poles 60 Hz