

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

	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

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 Revision 1 / 2		
Checked by				
Date	19/10/2024			

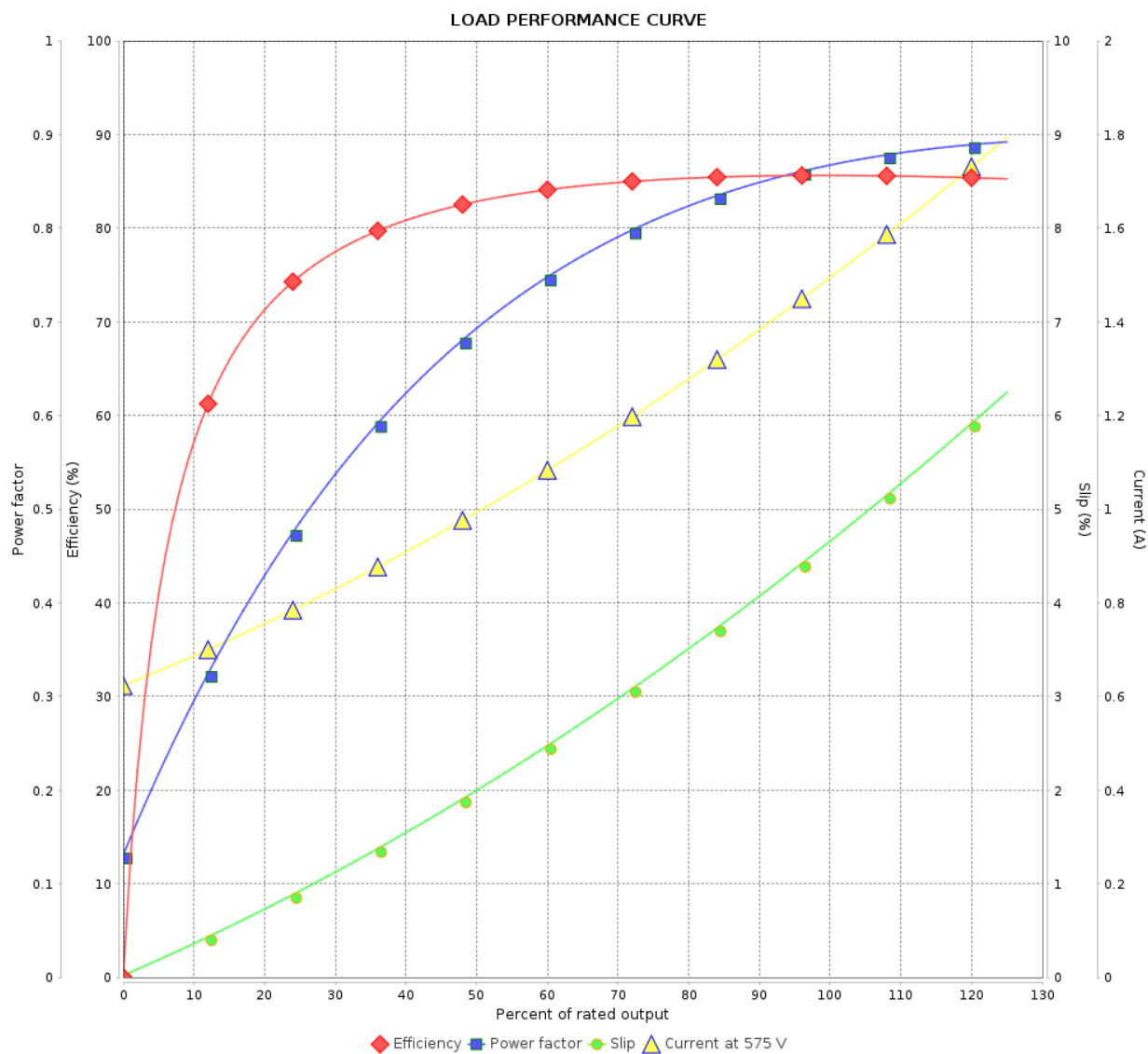
LOAD PERFORMANCE CURVE

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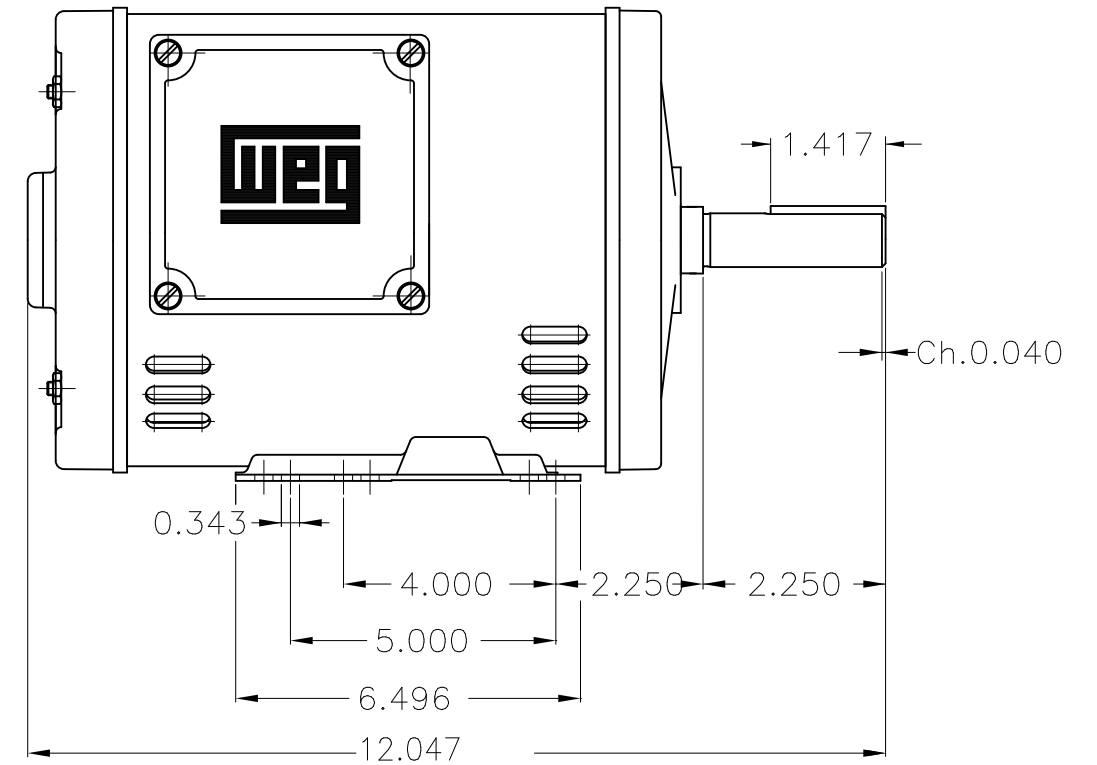
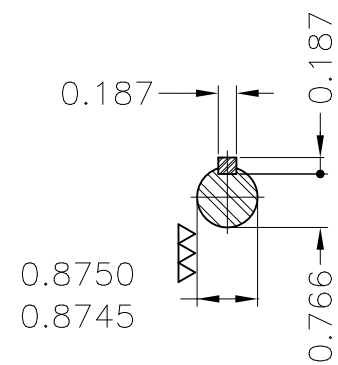


Performance : 575 V 60 Hz 2P

Rated current : 1.49 A
LRC : 9.0
Rated torque : 0.317 kgfm
Locked rotor torque : 400 %
Breakdown torque : 350 %
Rated speed : 3430 rpm

Moment of inertia (J) : 0.0022 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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