

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : General NEMA Premium Efficiency Three-Phase Product code : 10722304

Frame	: E143/5T	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 1.76 A	Protection degree	: IP21
L. R. Amperes	: 15.8 A	Cooling method	: IC01 - ODP
LRC	: 9.0x(Code M)	Mounting	: F-1
No load current	: 1.12 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1740 rpm	Noise level <sup>2</sup>	: 52.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 0.626 kgfm	Approx. weight <sup>3</sup>	: 19.7 kg
Locked rotor torque	: 360 %		
Breakdown torque	: 340 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0067 kgm <sup>2</sup>		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	82.5	85.5	86.5	Max. traction	: 51 kgf
Power Factor	0.52	0.66	0.75	Max. compression	: 70 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
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# LOAD PERFORMANCE CURVE

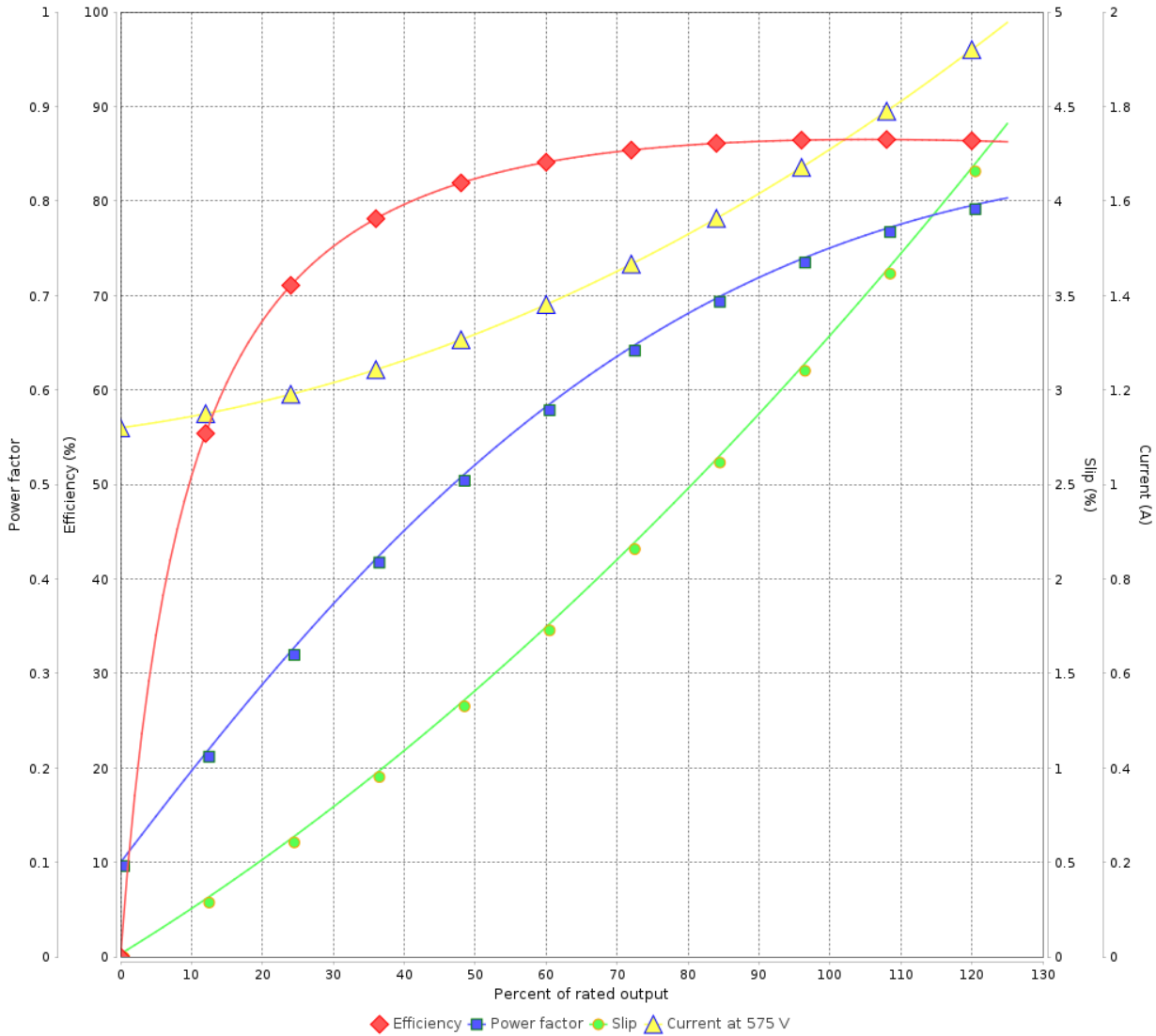
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10722304

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P

Rated current : 1.76 A  
 LRC : 9.0  
 Rated torque : 0.626 kgfm  
 Locked rotor torque : 360 %  
 Breakdown torque : 340 %  
 Rated speed : 1740 rpm

Moment of inertia (J) : 0.0067 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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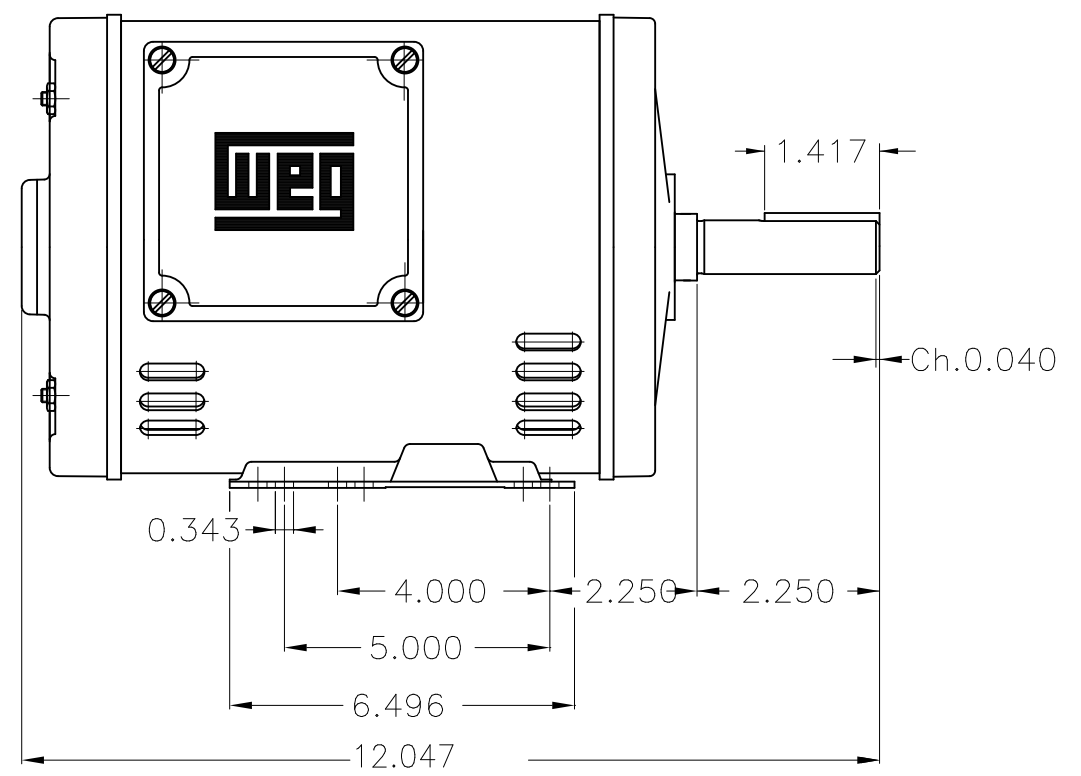
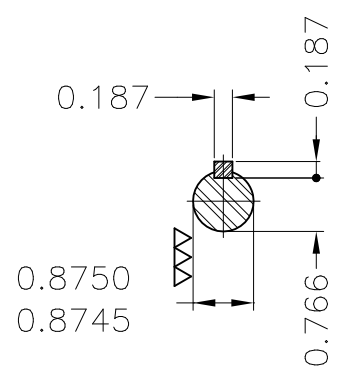
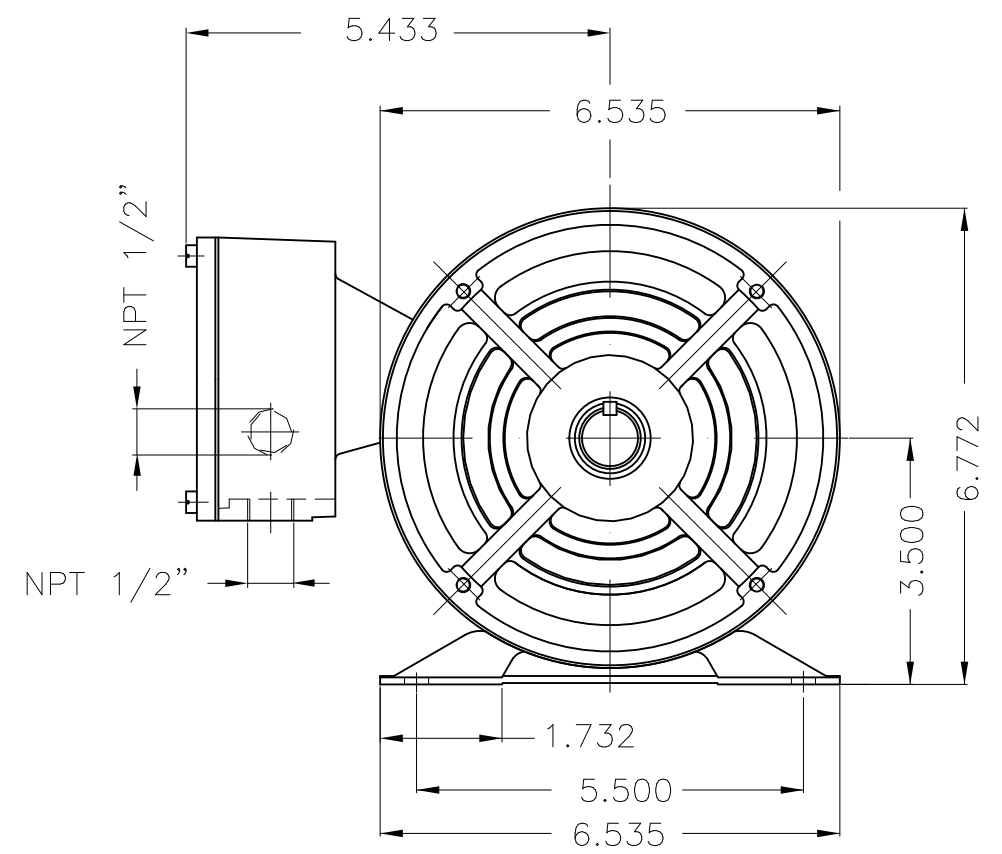
A

B

C

D

E



Without switch off thermal protection									
Mounting B3R(D)									
					HYBRISUSER	00			
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR GENERAL NEMA PREM. EFF.			PREVIEW		WDD   00		
CHECKED		FRAME E143/5T IP21 ODP							
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			

1.5 HP 04 Poles 60 Hz

A

