DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : General NEMA Premium Efficiency Three-Phase

Product code : 11090243

Frame	: E143/5T
Output	: 2 HP (1.5 kW)
Poles	: 2
Frequency	: 60 Hz
Rated voltage	: 230/460 V
Rated current	: 5.00/2.50 A
L. R. Amperes	: 47.5/23.8 A
LRC	: 9.5x(Code L)
No load current	: 1.96/0.980 A
Rated speed	: 3430 rpm
Slip	: 4.72 %
Rated torque	: 0.423 kgfm
Locked rotor torque	: 450 %
Breakdown torque	: 350 %
Insulation class	: F
Service factor	: 1.15
Moment of inertia (J)	: 0.0025 kgm²
Design	: B

Locked rotor time	: 27s (cold) 15s (hot)
Temperature rise	: 80 K
Duty cycle	: Cont.(S1)
Ambient temperature	: -20°C to +40°C
Altitude	: 1000 m.a.s.l.
Protection degree	: IP21
Cooling method	: IC01 - ODP
Mounting	: F-1
Rotation[1]	: Both (CW and CCW)
Noise level[2]	: 60.0 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 18.3 kg

Output	50%	75%	100%
Efficiency (%)	84.0	85.5	86.5
Power Factor	0.70	0.81	0.87

Foundation loads

Max. traction	: 33 kgf
Max. compression	: 51 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.

Rev.	Changes Summary	Performed	Checked	Date

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

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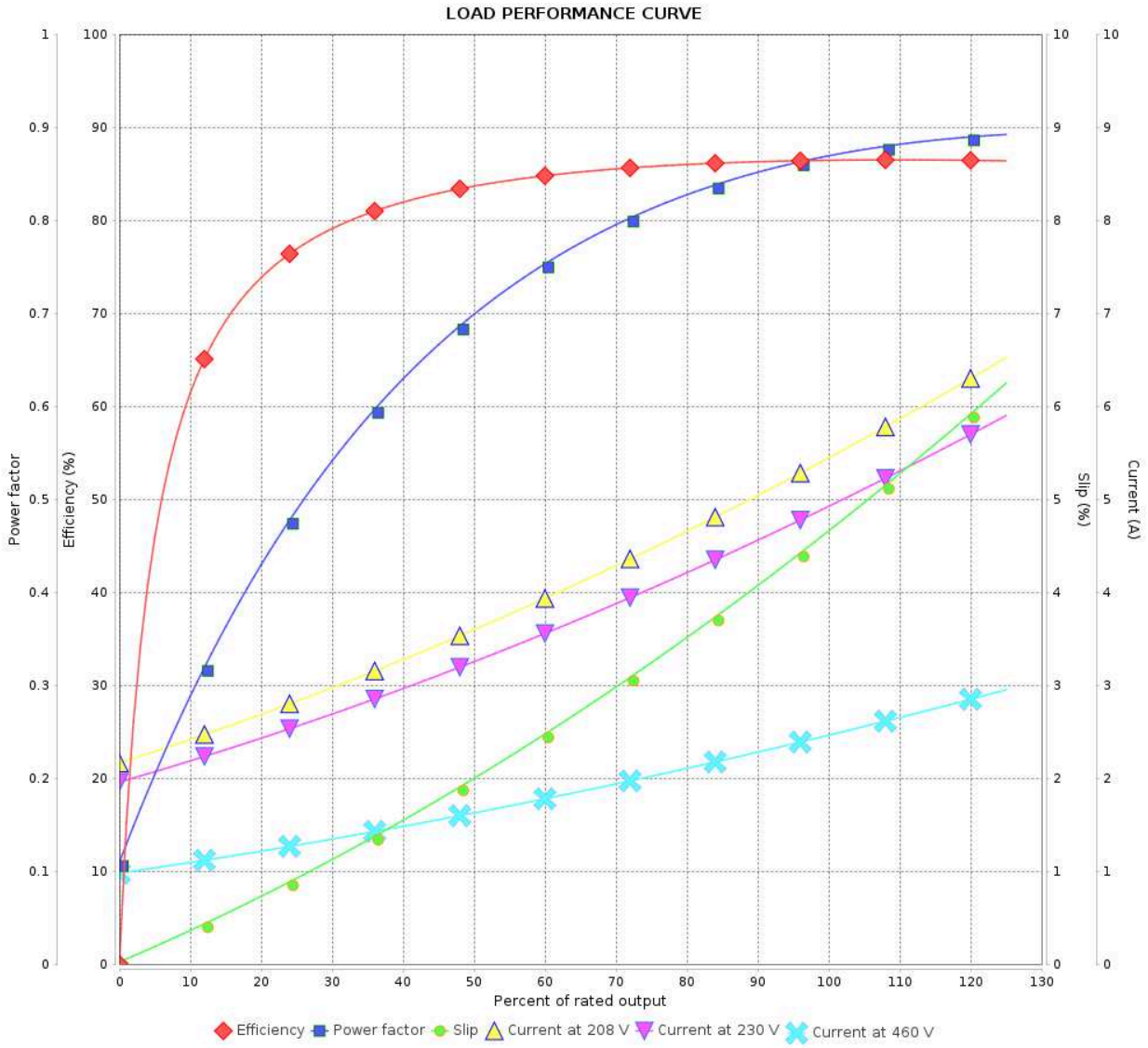
LOAD PERFORMANCE CURVE

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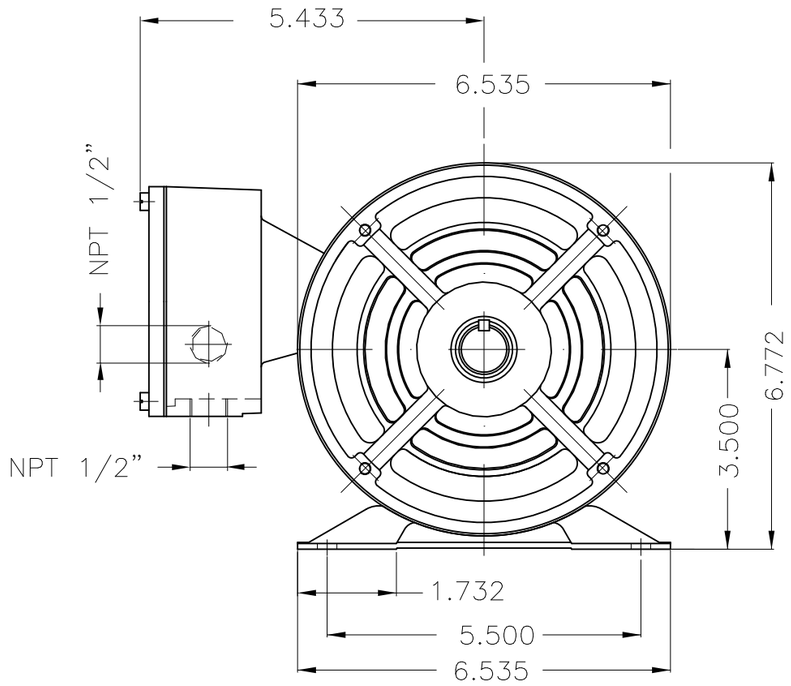


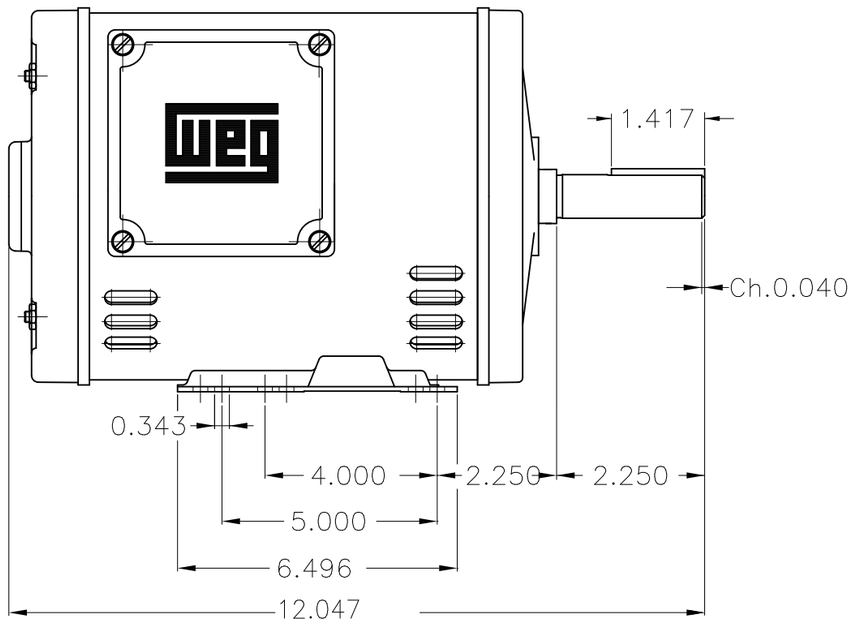
Performance	: 230/460 V 60 Hz 2P		
Rated current	: 5.00/2.50 A	Moment of inertia (J)	: 0.0025 kgm²
LRC	: 9.5	Duty cycle	: Cont.(S1)
Rated torque	: 0.423 kgfm	Insulation class	: F
Locked rotor torque	: 450 %	Service factor	:
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 3430 rpm	Design	: B

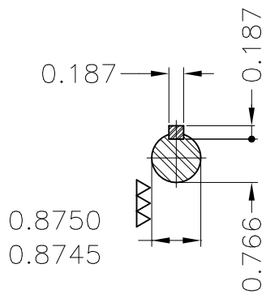
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Without switch off thermal protection

Mounting B3R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

EXECUTED	HYBRISUSER	THREE PH. MOTOR GENERAL NEMA PREM. EFF.	PREVIEW
CHECKED		FRAME E143/5T IP21 ODP	WDD 00
RELEASED			
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

2 HP 02 Poles 60 Hz

A

Dimensions in inches

XME A3

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