DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	14460223

Frame	: 143/5TC	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation[1]	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight[3]	: 17.7 kg
Design	: B	Moment of inertia (J)	: 0.0049 kgm²

Output [HP]		2
Poles		4
Frequency [Hz]		60
Rated voltage [V]		575
Rated current [A]		2.15
L. R. Amperes [A]		16.6
LRC [A]		7.7x(Code K)
No load current [A]		1.10
Rated speed [RPM]		1740
Slip [%]		3.33
Rated torque [kgfm]		0.834
Locked rotor torque [%]		260
Breakdown torque [%]		320
Service factor		1.15
Temperature rise		80 K
Locked rotor time		30s (cold) 17s (hot)
Noise level[2]		52.0 dB(A)
Efficiency (%)	25%	
	50%	85.5
	75%	86.5
	100%	86.5
Power Factor	25%	
	50%	0.61
	75%	0.74
	100%	0.81

		Drive end	Non drive end
Bearing type	:	6205 ZZ	6203 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 67 kgf

Max. compression : 85 kgf

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

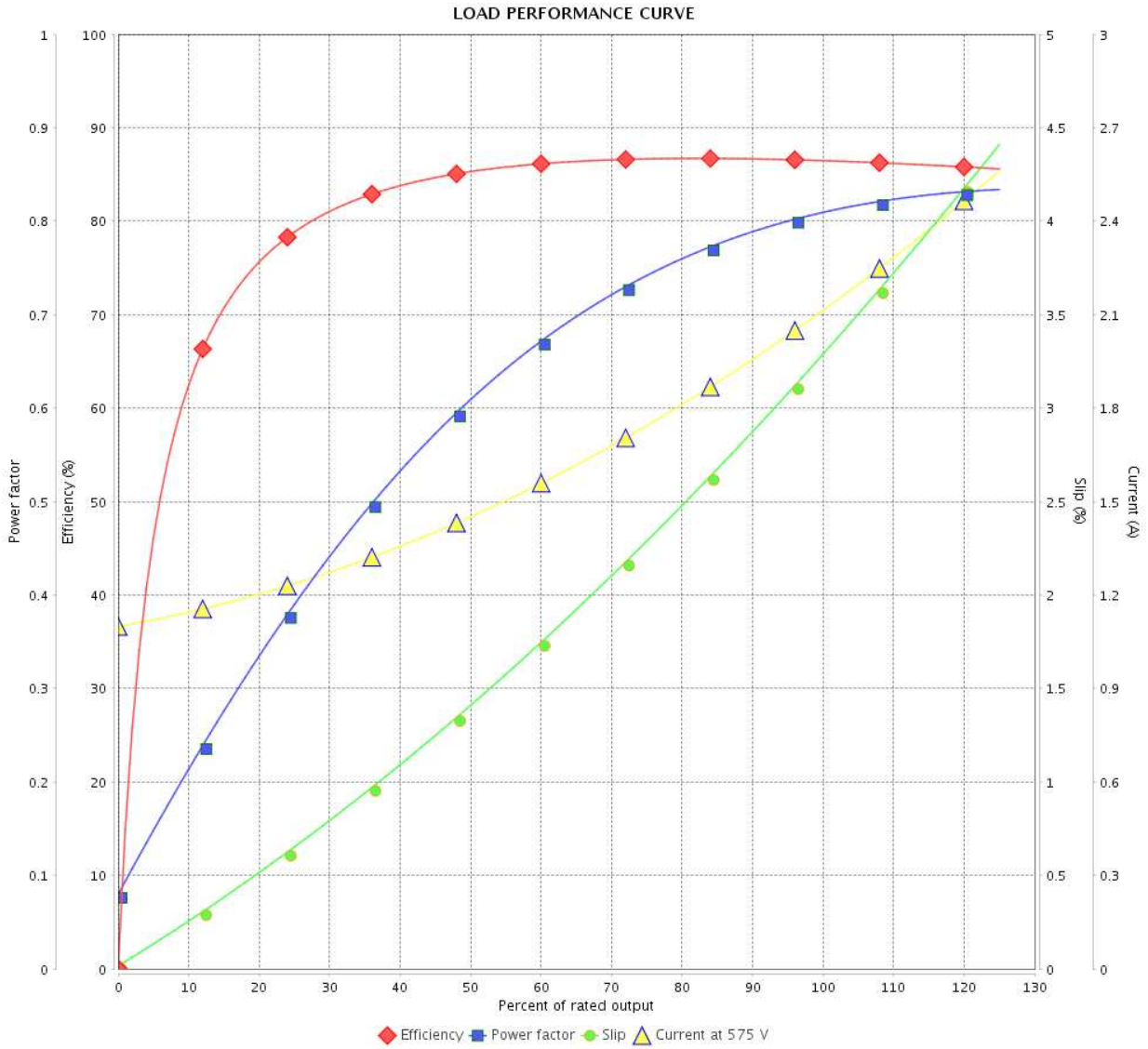
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: NEMA Premium Efficiency Three-Phase
Product code :	14460223

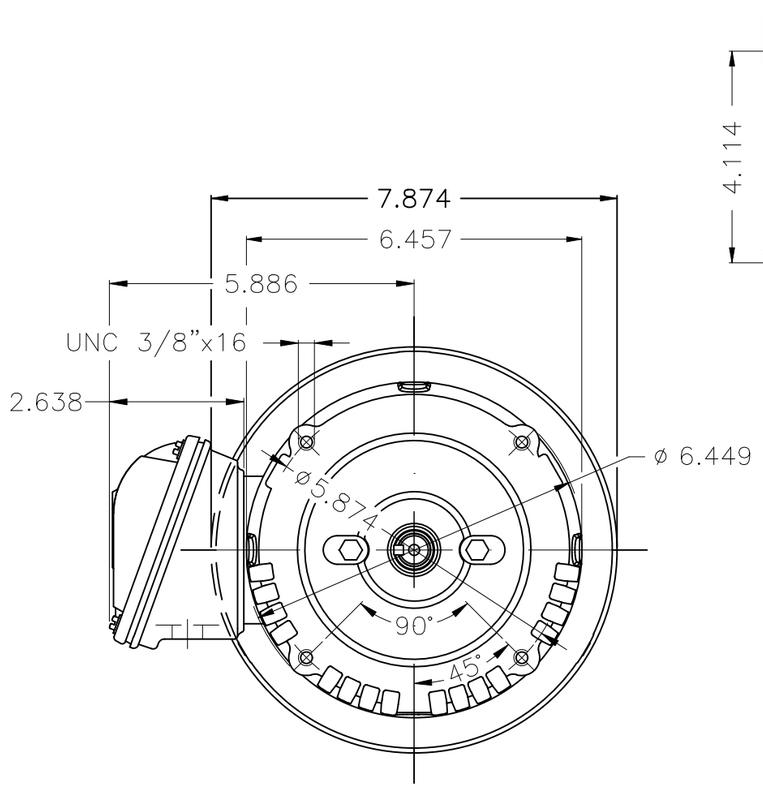


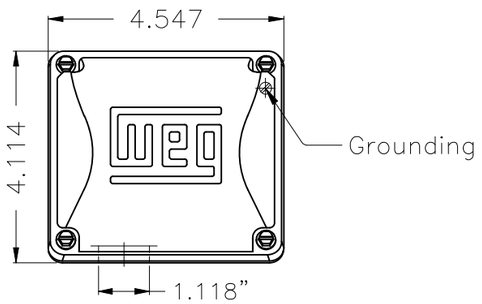
Performance	: 575 V 60 Hz 4P		
Rated current	: 2.15 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 0.834 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1740 rpm	Design	: B

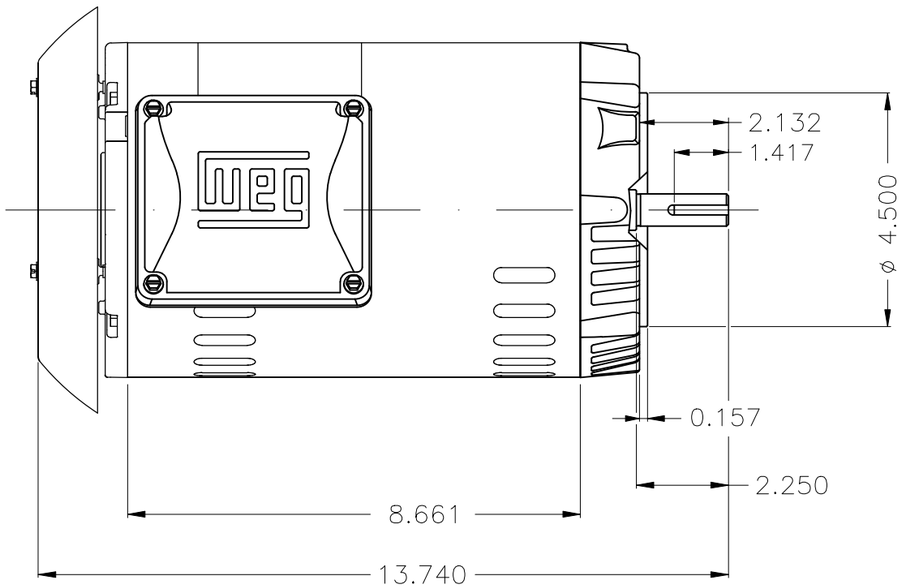
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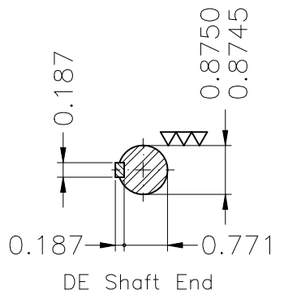
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Color Munsell N 1 matte black

Painting plan 207N

Mounting F-1/B14R(D)

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

EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL NEMA PREM. EFF.	PREVIEW	
CHECKED		FRAME 143/5TC IP21 ODP	WDD	00
RELEASED				
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET	1 / 1

2 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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