DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase

Product code : 14460223

Frame	: 143/5TC	Locked rotor time	: 30s (cold) 17s (hot)
Output	: 2 HP (1.5 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	: 2.15 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 16.6 A	Mounting	: F-1
LRC	: 7.7x(Code K)	Rotation[1]	: Both (CW and CCW)
No load current	: 1.10 A	Noise level[2]	: 52.0 dB(A)
Rated speed	: 1740 rpm	Vibration	: A
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 0 kgfm	Approx. weight[3]	: 17.7 kg
Locked rotor torque	: 260 %		: 207N (ISO 12944 - C2)
Breakdown torque	: 320 %		: Munsell N 1 - Matte
Insulation class	: F	Design	: B
Service factor	: 1.15		
Moment of inertia (J)	: 0.0049 kgm²		

Output	50%	75%	100%
Efficiency (%)	85.5	86.5	86.5
Power Factor	0.61	0.74	0.81

Foundation loads

Max. traction	: 67 kgf
Max. compression	: 85 kgf

		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	

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

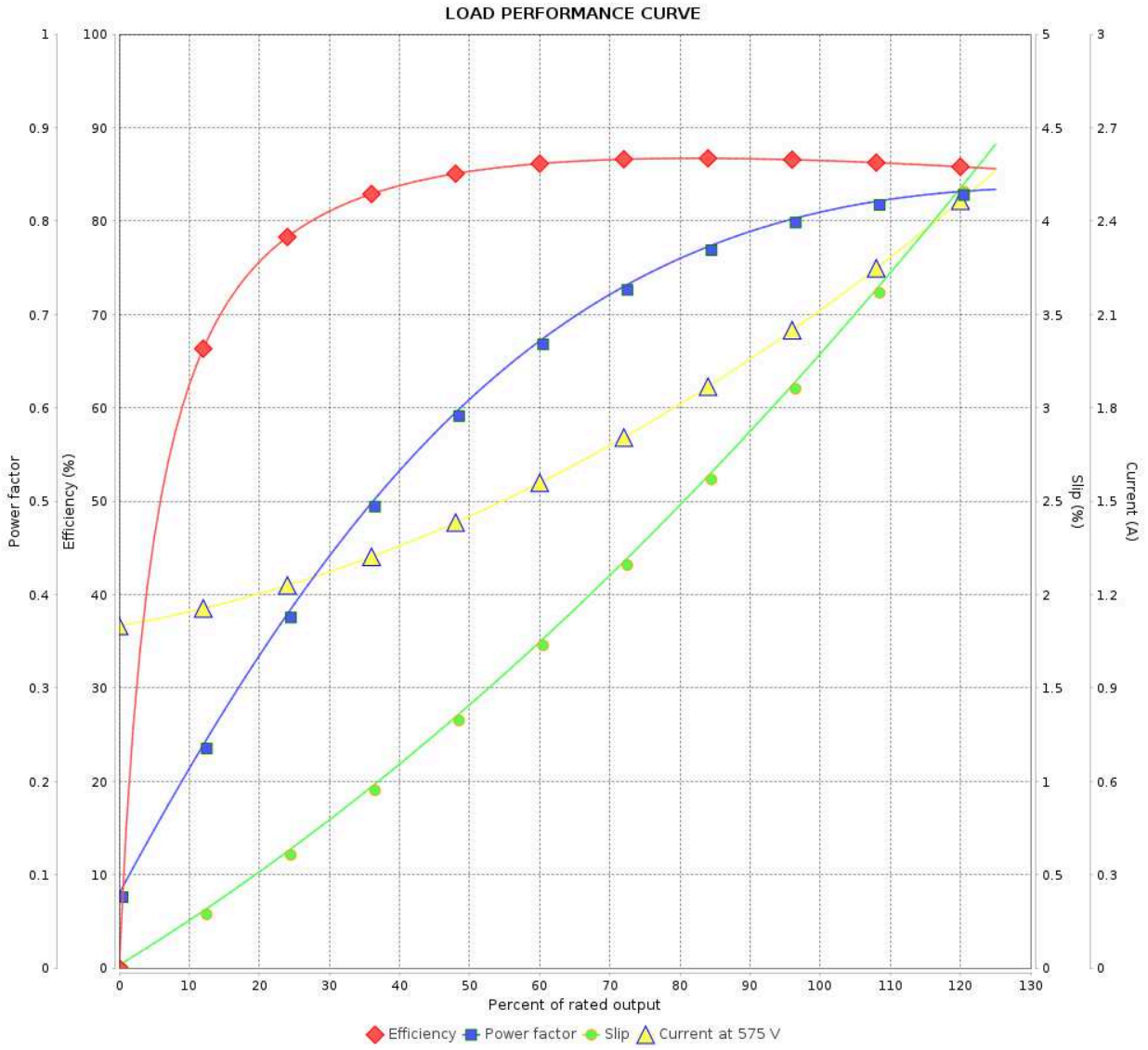
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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

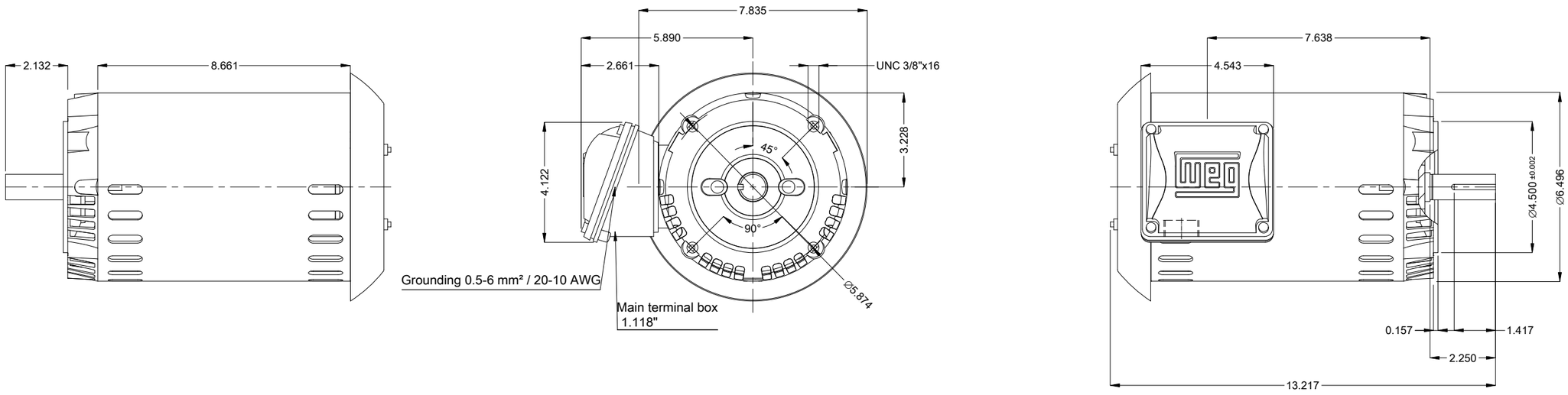


Performance	: 575 V 60 Hz 4P		
Rated current	: 2.15 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1740 rpm	Design	: B

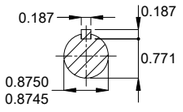
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DE Shaft End



With drip cover
Color Munsell N 1 matte black
Painting plan 207N
Mounting MARKET F-1/B14R(D)
Mounting F-1/B14R(D)

2 HP 04 Poles 60 Hz | A

Scale 1 : 4

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

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR ROLLED STEEL NEMA PREM. EFF.
FRAME 143/5TC IP21 ODP

PREVIEW
WDD | 00
SHEET 1 / 1

Dimensions in inches

A3

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