DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Saw Arbor Motor Standard Efficiency Three-Phase	Product code :	14180603

Frame	: 90L/MS	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S6
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 22.4-20.3/10.1 A	Protection degree	: IP54
L. R. Amperes	: 184-166/83.1 A	Cooling method	: IC411 - TEFC
LRC	: 8.2	Mounting	: B3R(D)
No load current	: 11.1-10.0/5.02 A	Rotation¹	: CCW
Rated speed	: 1730 rpm	Noise level²	: 55.0 dB(A)
Slip	: 3.89 %	Starting method	: Direct On Line
Rated torque	: 3.15 kgfm	Approx. weight³	: 75.3 kg
Locked rotor torque	: 370 %		
Breakdown torque	: 400 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0140 kgm²		
Design	: N		

Output	50%	75%	100%
Efficiency (%)	83.5	85.0	85.3
Power Factor	0.60	0.74	0.80

Foundation loads

Max. traction	: 276 kgf
Max. compression	: 352 kgf

		Drive end	Non drive end
Bearing type	:	6308 ZZ	6208 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				
Checked by			Page	Revision
Date	27/10/2024		1 / 2	

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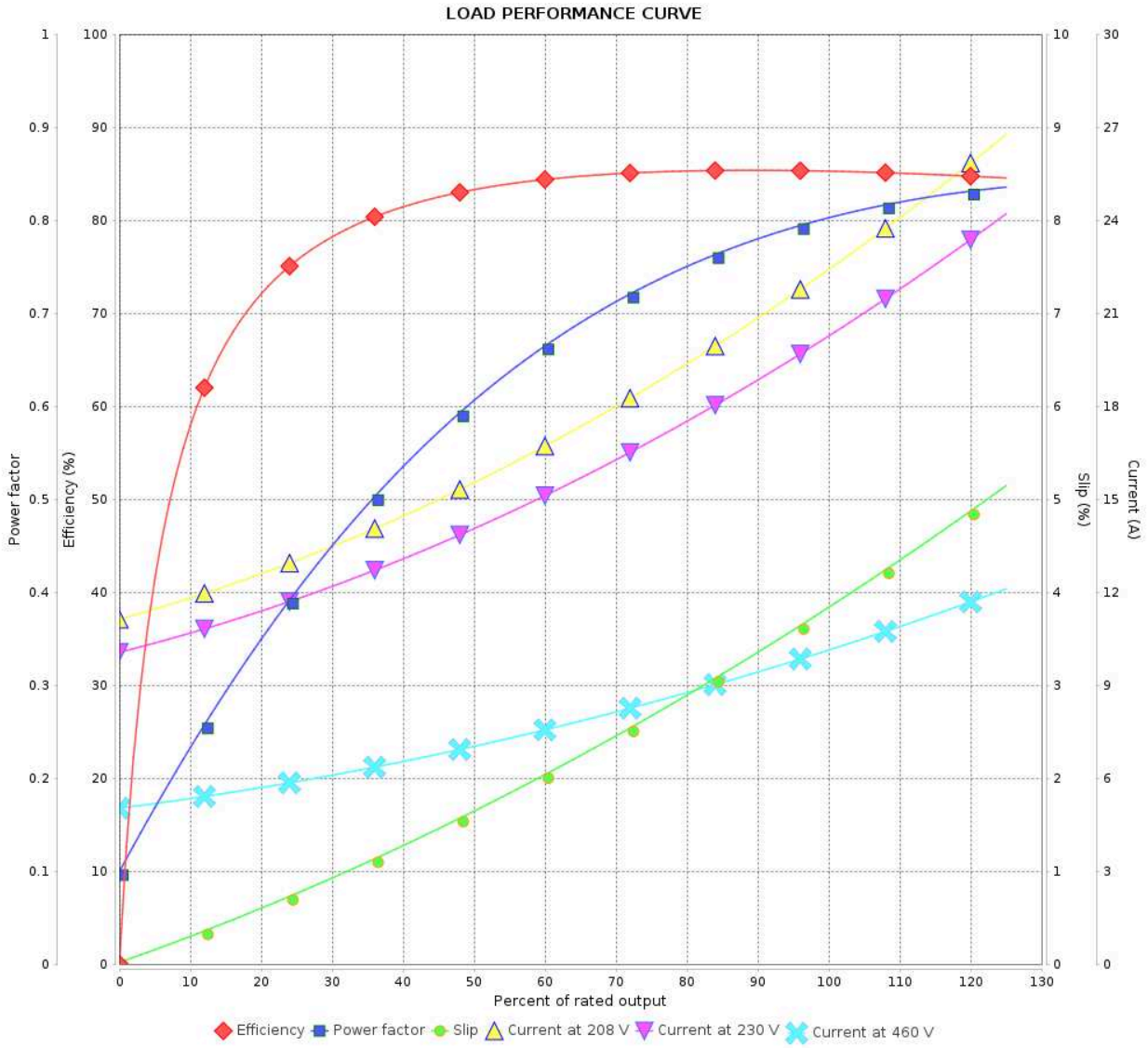
LOAD PERFORMANCE CURVE

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Customer :

Product line : Saw Arbor Motor Standard Efficiency Three-Phase

Product code : 14180603

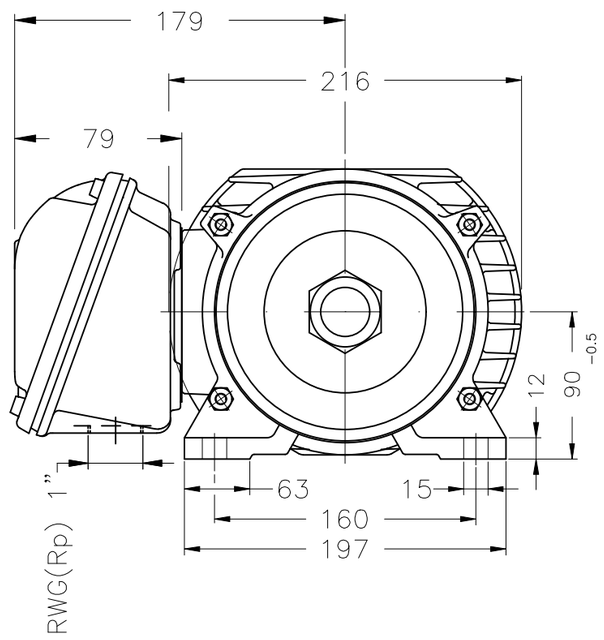


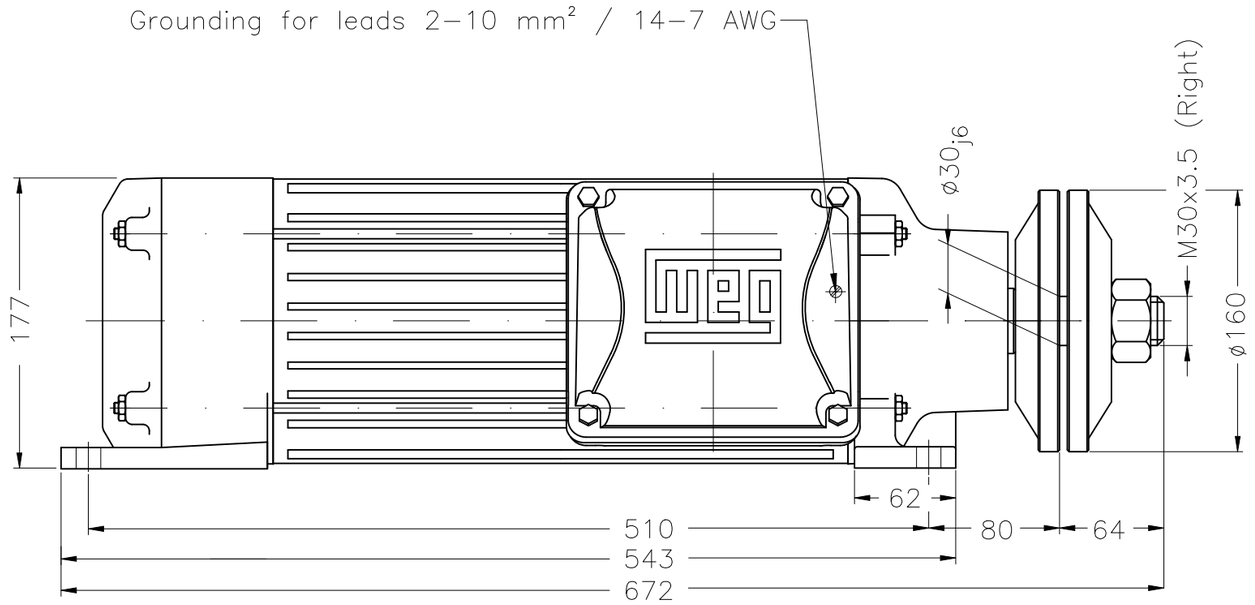
Performance	: 208-230/460 V 60 Hz 4P		
Rated current	: 22.4-20.3/10.1 A	Moment of inertia (J)	: 0.0140 kgm²
LRC	: 8.2	Duty cycle	: S6
Rated torque	: 3.15 kgfm	Insulation class	: F
Locked rotor torque	: 370 %	Service factor	: 1.15
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 1730 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date

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

7.5 HP 04 Poles 60 Hz | A

Counterclockwise rotation
Color RAL 7022
Painting plan 207A
Mounting B3R(D)

EXECUTED	HYBRISUSER	THREE PH. MOTOR SAW ARBOR MOTOR	PREVIEW
CHECKED		FRAME 90L/MS IP54 TEFC	WDD 00
RELEASED			
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

Dimensions in mm
XME A3

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