

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard Efficiency Three-Phase Product code : 14212887

Frame	: 90L/MS	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S6
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 9.83 A	Protection degree	: IP54
L. R. Amperes	: 85.5 A	Cooling method	: IC411 - TEFC
LRC	: 8.7	Mounting	: B3R(D)
No load current	: 3.60 A	Rotation ¹	: CCW
Rated speed	: 3480 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 2.09 kgfm	Approx. weight ³	: 76.1 kg
Locked rotor torque	: 400 %		
Breakdown torque	: 420 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0140 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	82.0	84.5	85.0	Max. traction	: 180 kgf
Power Factor	0.77	0.86	0.90	Max. compression	: 257 kgf

		<u>Drive end</u>	<u>Non drive end</u>
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		Page Revision 1 / 2		
Checked by				
Date	28/10/2024			

LOAD PERFORMANCE CURVE

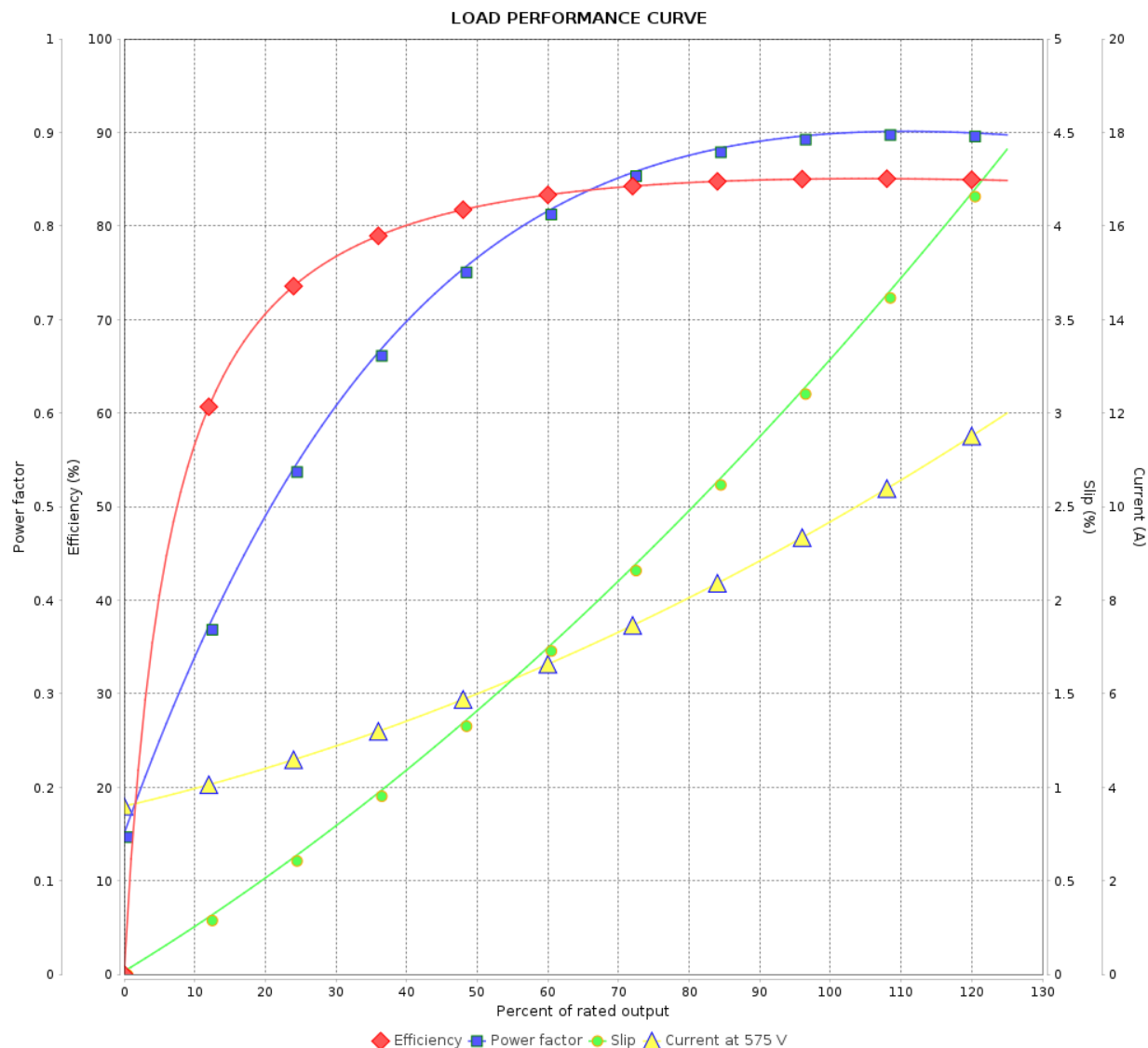
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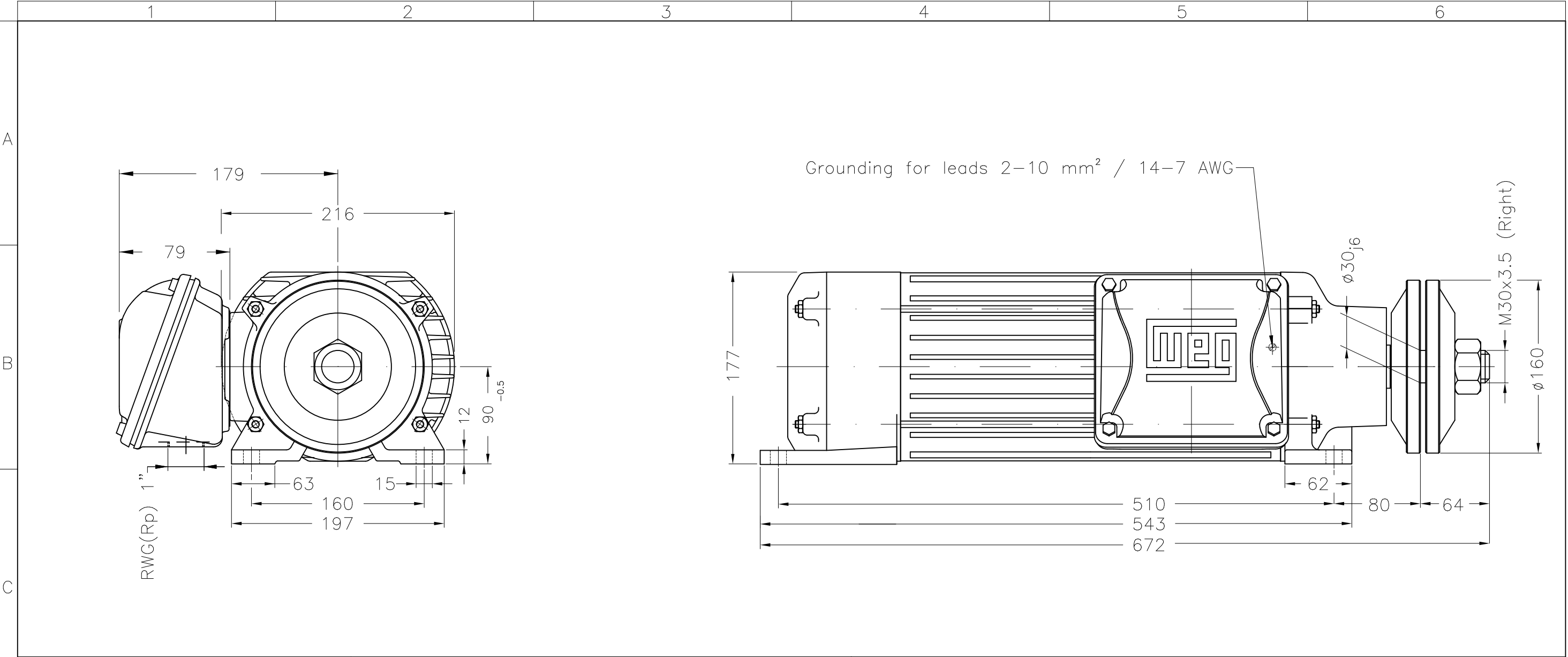


Performance : 575 V 60 Hz 2P

Rated current : 9.83 A
LRC : 8.7
Rated torque : 2.09 kgfm
Locked rotor torque : 400 %
Breakdown torque : 420 %
Rated speed : 3480 rpm

Moment of inertia (J) : 0.0140 kgm²
Duty cycle : S6
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : N

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 2 Revision		
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D														
				10 HP 02 Poles 60 Hz										
								HYBRISUSER					00	
				ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
				EXECUTED	HYBRISUSER		THREE PH. MOTOR SAW ARBOR MOTOR				PREVIEW			
				CHECKED			FRAME 90L/MS IP54 TEFC							
				RELEASED										
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1								

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