

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard Efficiency Three-Phase Product code : 10023134

Frame	: 90L/MS	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 32.5-29.4/14.7 A	Protection degree	: IP54
L. R. Amperes	: 276-250/125 A	Cooling method	: IC411 - TEFC
LRC	: 8.5	Mounting	: B3R(D)
No load current	: 18.0-16.3/8.13 A	Rotation ¹	: CCW
Rated speed	: 1715 rpm	Noise level ²	: 55.0 dB(A)
Slip	: 4.72 %	Starting method	: Direct On Line
Rated torque	: 4.23 kgfm	Approx. weight ³	: 82.5 kg
Locked rotor torque	: 459 %		
Breakdown torque	: 450 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0168 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	84.5	85.5	85.5	Max. traction	: 434 kgf
Power Factor	0.54	0.67	0.75	Max. compression	: 517 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		Page Revision 1 / 2		
Checked by				
Date	26/10/2024			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

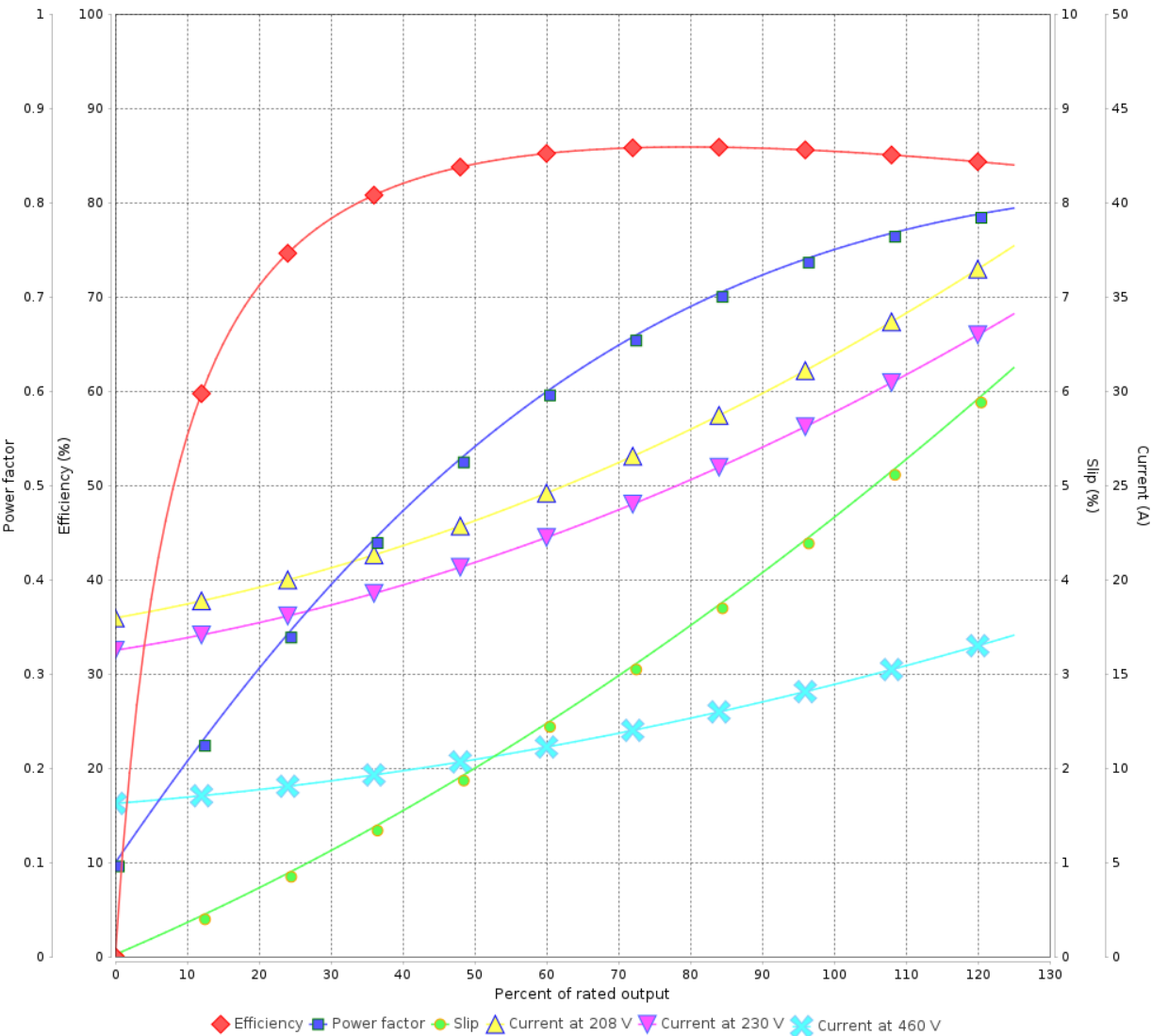


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Efficiency Three-Phase

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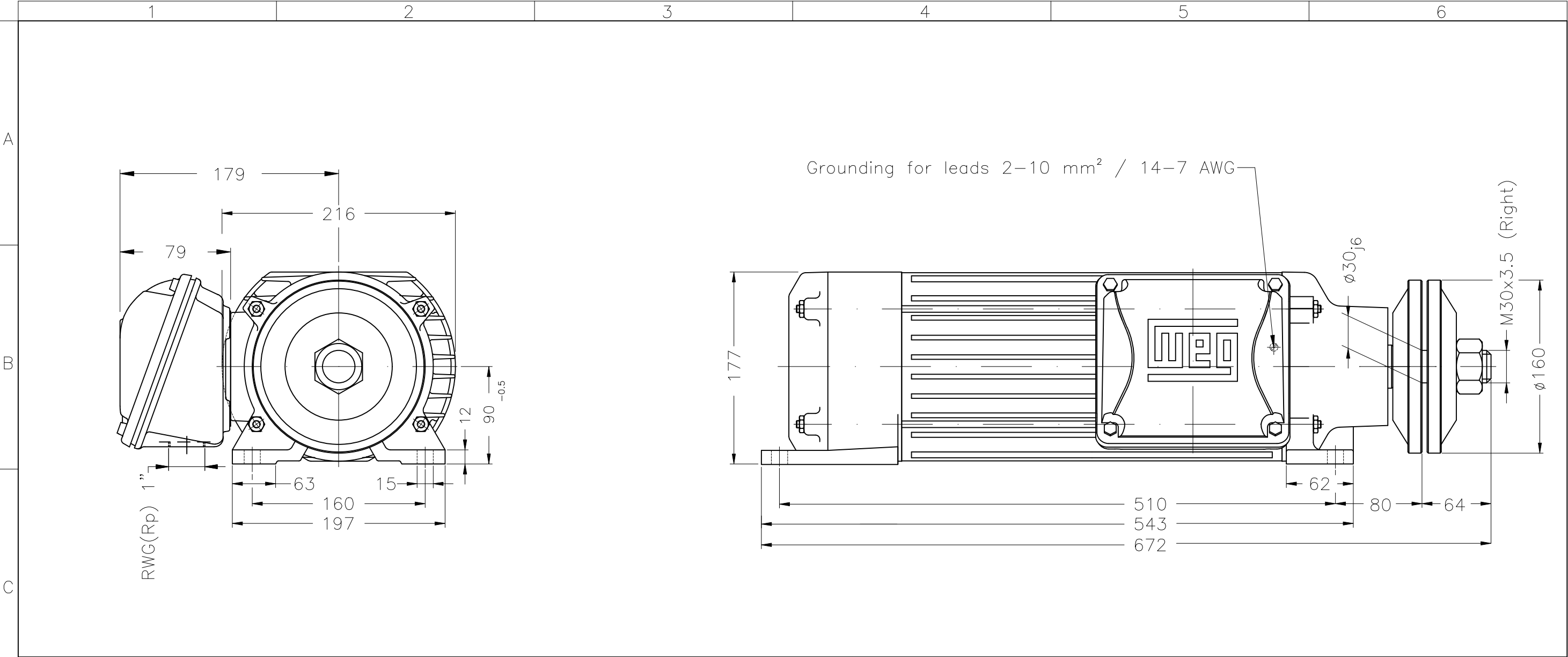




Performance : 208-230/460 V 60 Hz 4P

Rated current : 32.5-29.4/14.7 A
LRC : 8.5
Rated torque : 4.23 kgfm
Locked rotor torque : 459 %
Breakdown torque : 450 %
Rated speed : 1715 rpm

Moment of inertia (J) : 0.0168 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : N

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
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Date					



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				ECM		LOC		SUMMARY OF MODIFICATIONS					EXECUTED		CHECKED		RELEASED		DATE		VER	
				EXECUTED		HYBRISUSER				THREE PH. MOTOR SAW ARBOR MOTOR FRAME 90L/MS IP54 TEFC					PREVIEW							
				CHECKED																		
				RELEASED																		
				REL. DATE				WMO		Jaragua do Sul					Product Engineering					SHEET		1 / 1

Without switch off thermal protection
Counterclockwise rotation
Color RAL 7022
Painting plan 207A
Mounting B3R(D)