

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: Saw Arbor Motor Standard Efficiency Three-Phase		Product code : 14212918	
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	: 208-230/460 V	Altitude	: 1000 m.a.s.l.		
Rated current	: 27.2-24.6/12.3 A	Protection degree	: IP54		
L. R. Amperes	: 236-214/107 A	Cooling method	: IC411 - TEFC		
LRC	: 8.7	Mounting	: B3R(D)		
No load current	: 9.94-8.99/4.50 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	: 75.9 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 : 181 kgf	
Power Factor	0.77	0.86	0.90	Max. compression : 256 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					
Checked by				Page	Revision
Date	28/10/2024			1 / 2	

LOAD PERFORMANCE CURVE

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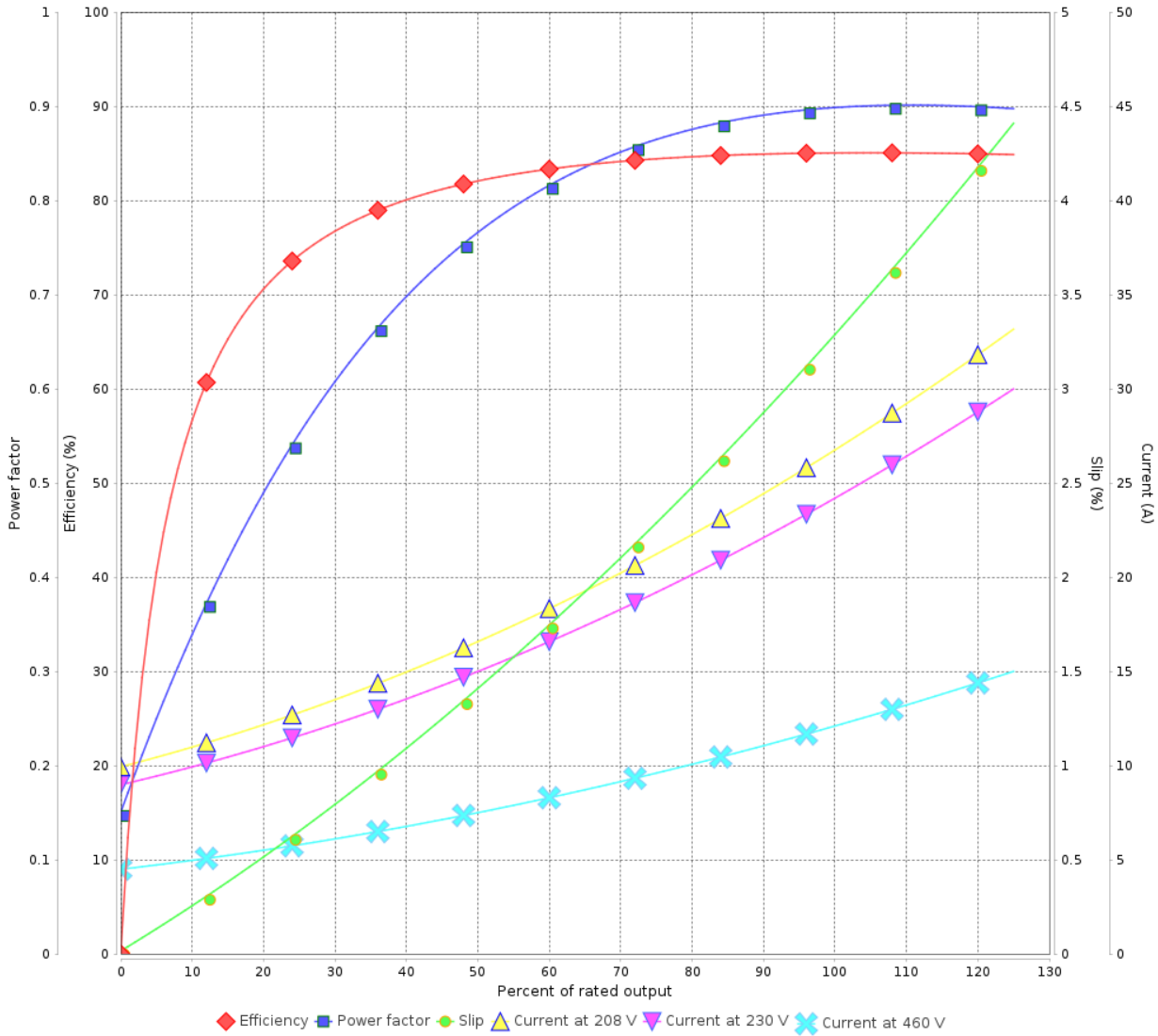


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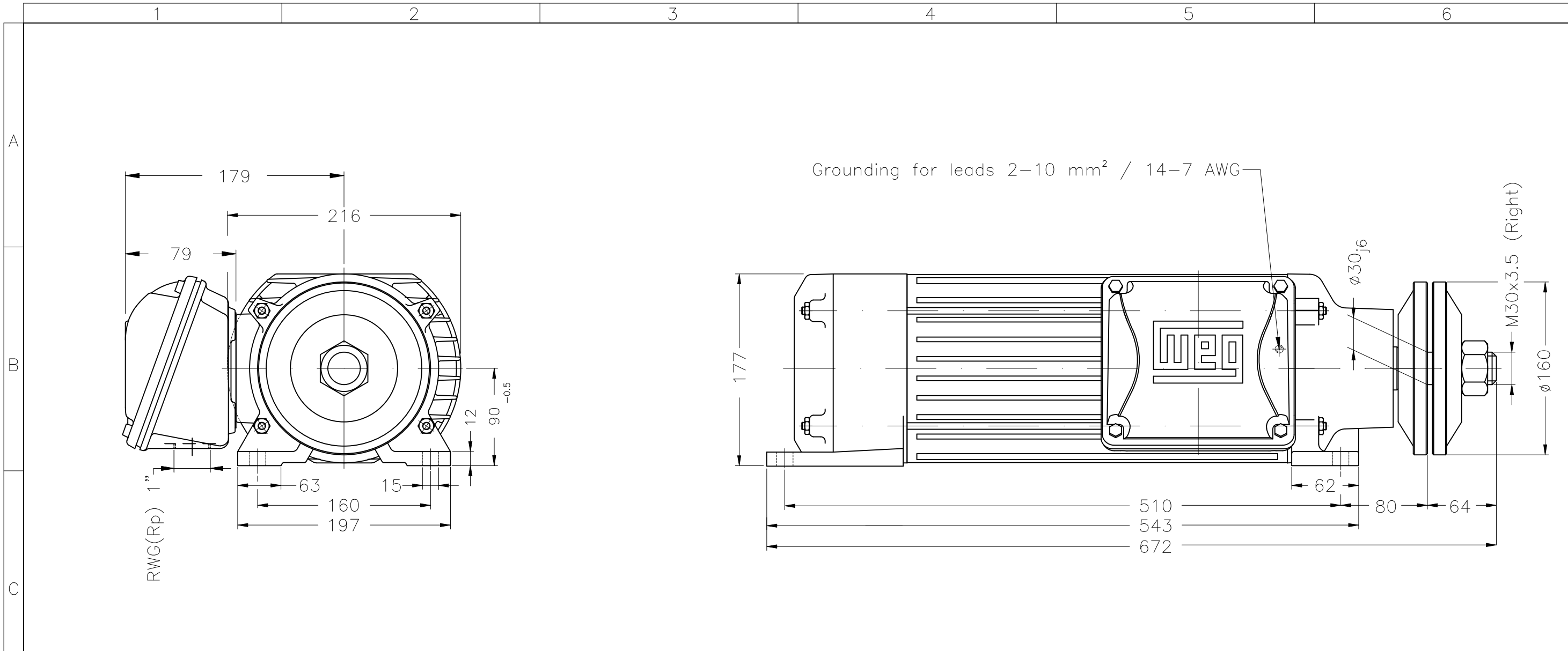


Performance : 208-230/460 V 60 Hz 2P

Rated current : 27.2-24.6/12.3 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
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D												

E	Counterclockwise rotation										10 HP 02 Poles 60 Hz		A				
	Color RAL 7022																
	Painting plan 207A																
	Mounting B3R(D)																
				HYBRISUSER								00					
ECM		LOC		SUMMARY OF MODIFICATIONS				EXECUTED		CHECKED		RELEASED		DATE		VER	
EXECUTED		HYBRISUSER		THREE PH. MOTOR SAW ARBOR MOTOR													
CHECKED				FRAME 90L/MS IP54 TEFC													
RELEASED																	
REL. DATE				WMO Jaragua do Sul				Product Engineering		SHEET		1 / 1					

