

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	
		<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	26/10/2024			1 / 2	

LOAD PERFORMANCE CURVE

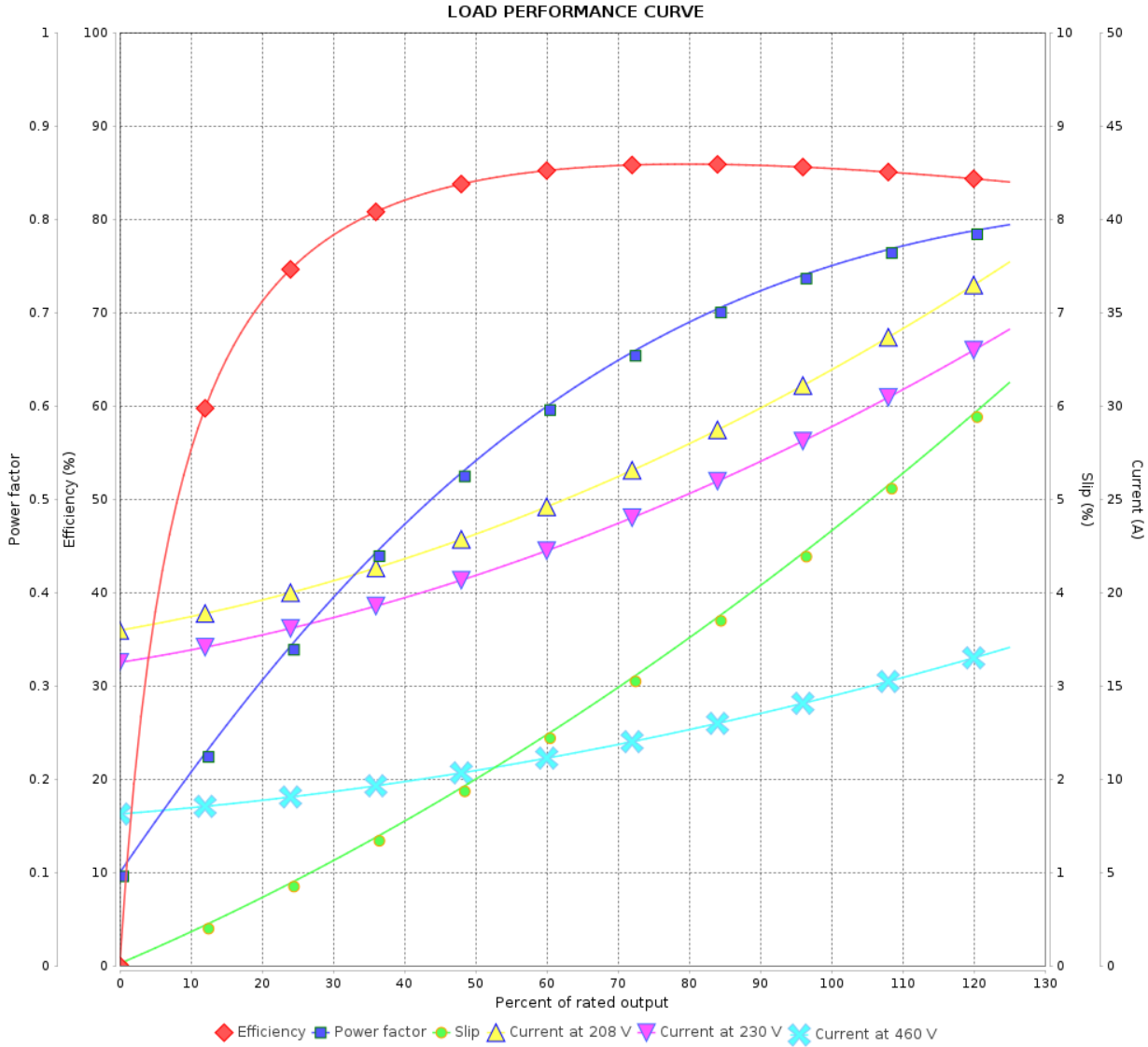
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Efficiency Three-Phase

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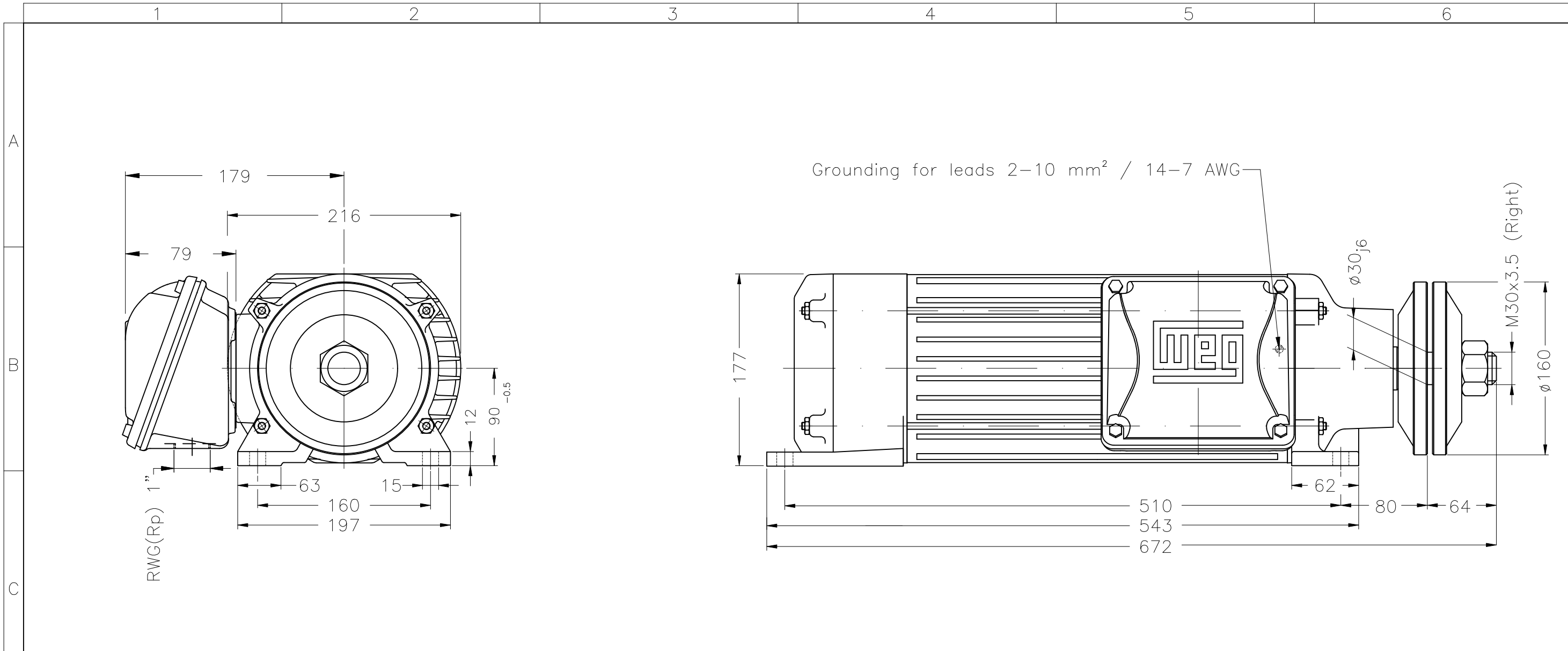


Performance : 208-230/460 V 60 Hz 4P

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 2 / 2	Revision
Checked by				
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D																						

E	Without switch off thermal protection																		10 HP 04 Poles 60 Hz		A	
	Counterclockwise rotation																					
	Color RAL 7022																					
	Painting plan 207A																					
	Mounting B3R(D)																					
										HYBRISUSER												
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								