

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: Saw Arbor Motor Standard Efficiency Three-Phase		Product code : 15472746	
Frame	: 90L/MS	Locked rotor time	: 10s (cold) 6s (hot)		
Output	: 10 HP (7.5 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	: 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	: 82.3 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	30/10/2024			1 / 2	

LOAD PERFORMANCE CURVE

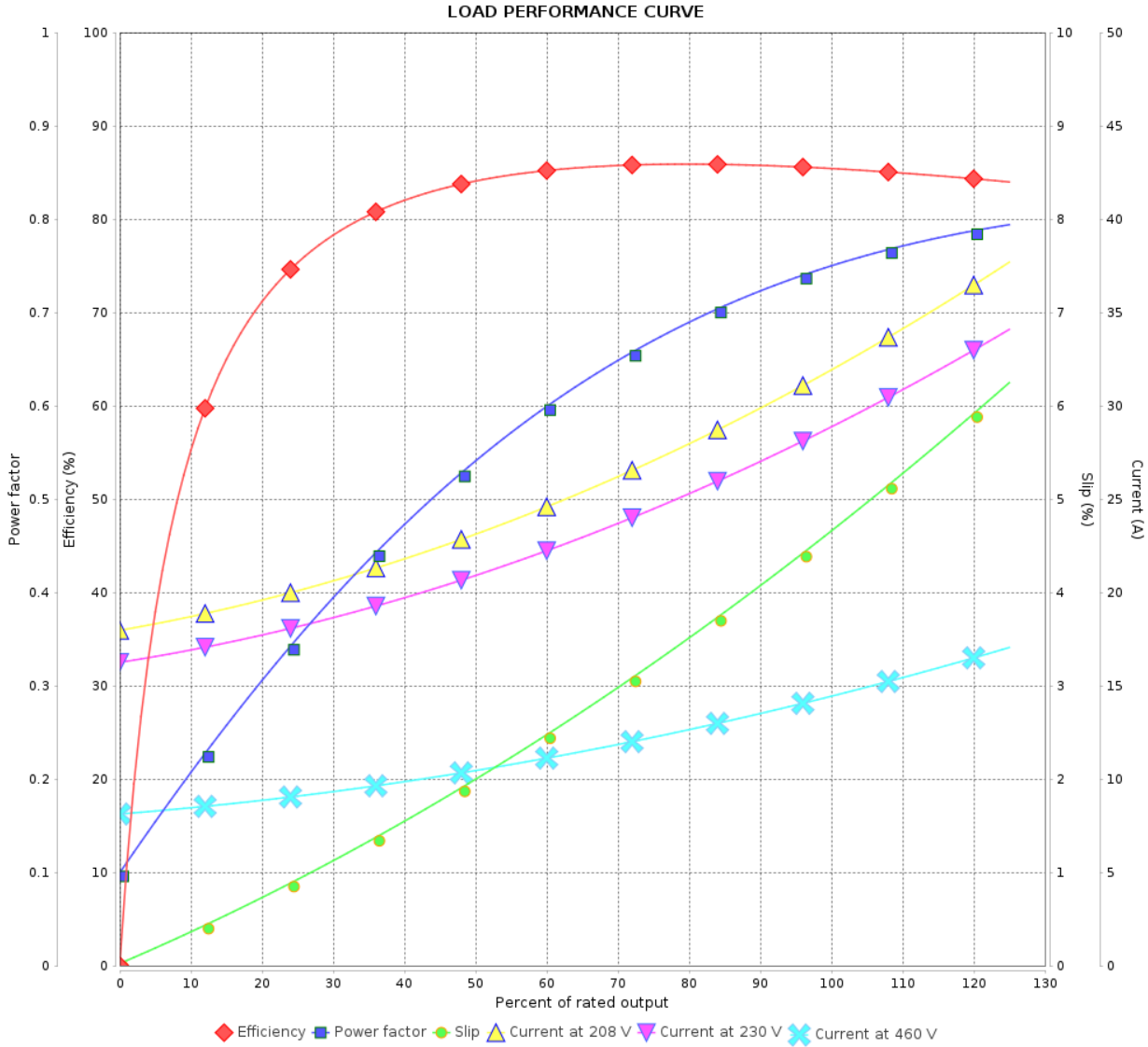
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Efficiency Three-Phase

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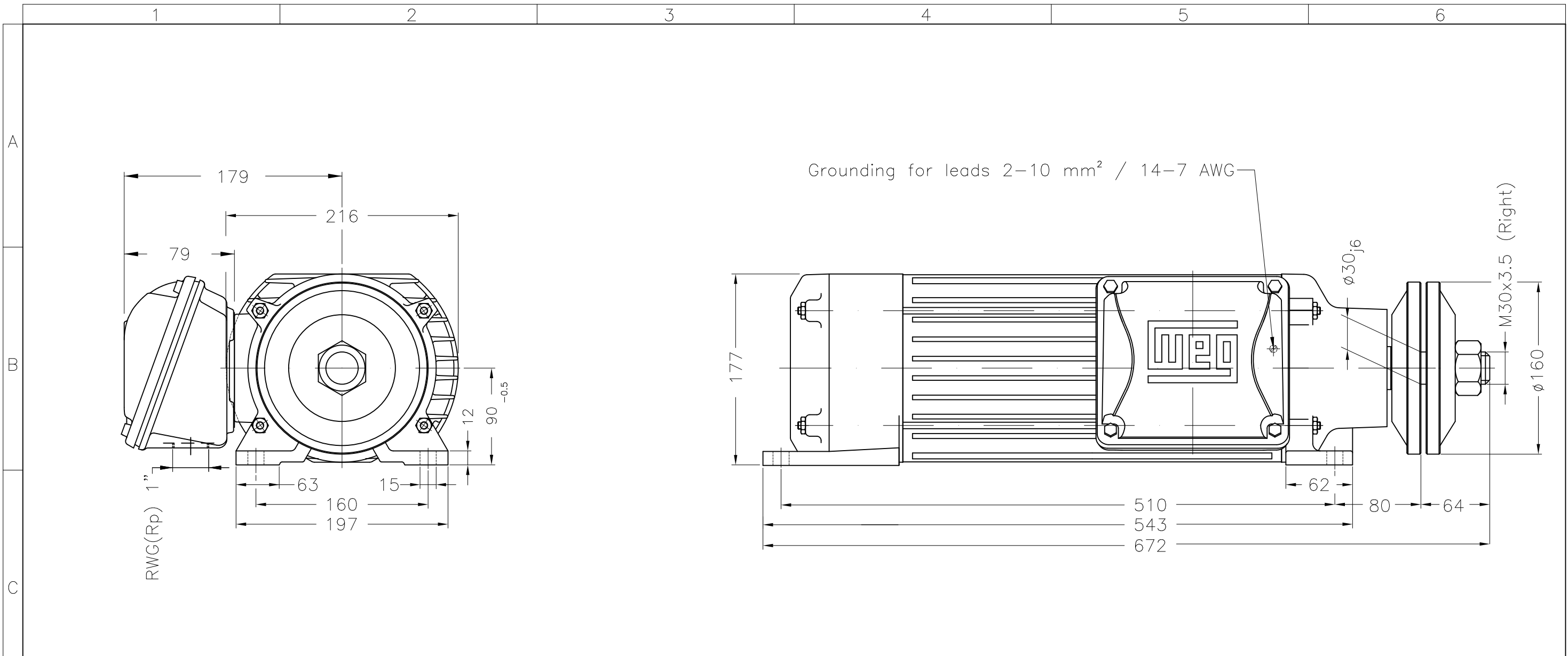


Performance : 208-230/460 V 60 Hz 4P

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 : S6
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : N

Rev.	Changes Summary	Performed	Checked	Date
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Counterclockwise rotation				10 HP 04 Poles 60 Hz		A	
Color RAL 7022							
Painting plan 207A							
Mounting B3R(D)							
						HYBRISUSER 00	
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED	DATE
EXECUTED	HYBRISUSER	THREE PH. MOTOR SAW ARBOR MOTOR				PREVIEW	
CHECKED		FRAME 90L/MS IP54 TEFC				WDD 00	
RELEASED						SHEET 1 / 1	
REL. DATE		WMO	Jaragua do Sul	Product Engineering	WEG		