

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: Saw Arbor Motor Standard Efficiency Three-Phase		Product code : 10023135		
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 <sup>1</sup>	: CW			
Rated speed	: 1715 rpm	Noise level <sup>2</sup>	: 55.0 dB(A)			
Slip	: 4.72 %	Starting method	: Direct On Line			
Rated torque	: 4.23 kgfm	Approx. weight <sup>3</sup>	: 82.5 kg			
Locked rotor torque	: 459 %					
Breakdown torque	: 450 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.0168 kgm <sup>2</sup>					
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

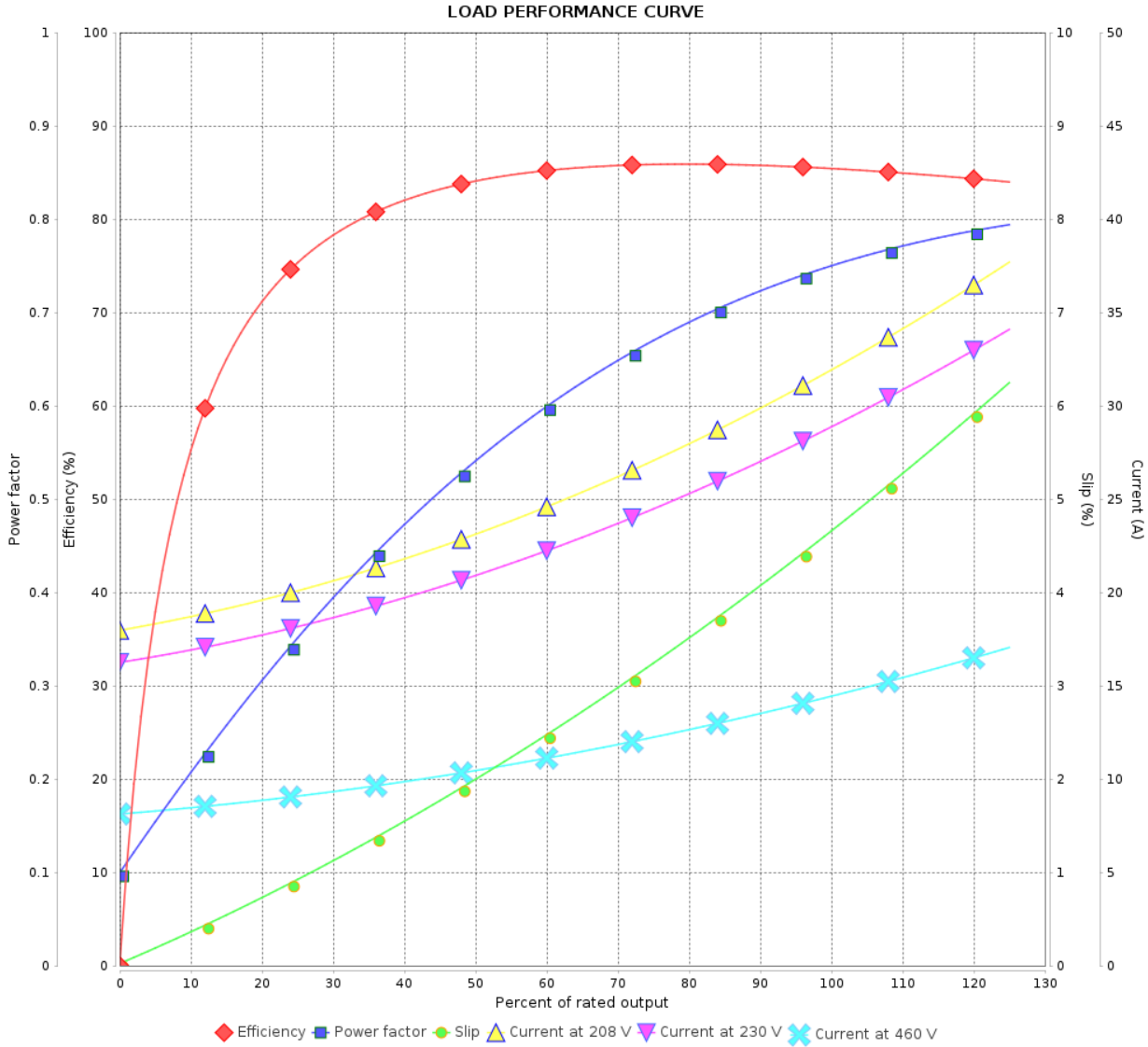
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard  
Efficiency Three-Phase

Product code : 10023135

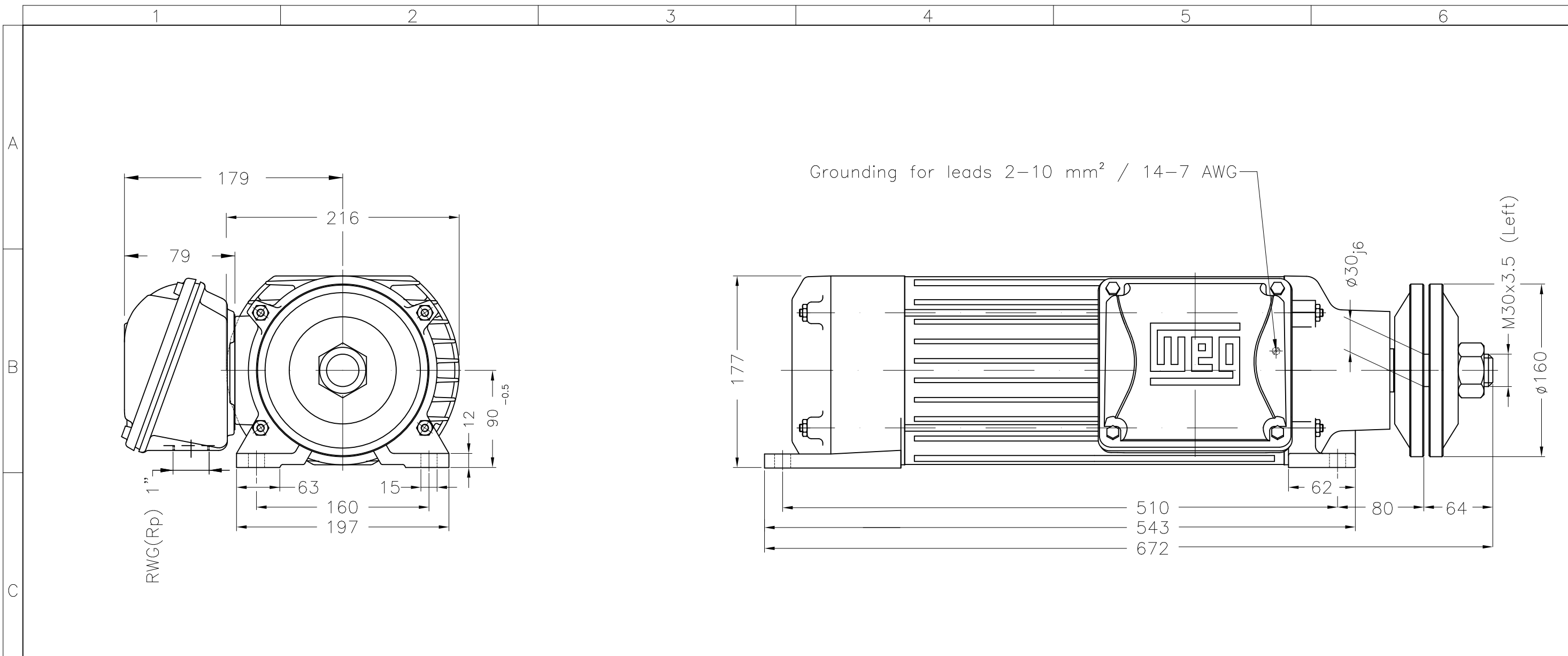


Performance : 208-230/460 V 60 Hz 4P

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 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : N

Rev.	Changes Summary	Performed	Checked	Date
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Without switch off thermal protection				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		WMO Jaragua do Sul		SHEET		1 / 1	
REL. DATE		Product Engineering		WEG			