

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: Saw Arbor Motor Standard Efficiency Three-Phase		Product code : 14180603	
Frame	: 90L/MS	Locked rotor time	: 12s (cold) 7s (hot)		
Output	: 7.5 HP (5.5 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	: 22.4-20.3/10.1 A	Protection degree	: IP54		
L. R. Amperes	: 184-166/83.1 A	Cooling method	: IC411 - TEFC		
LRC	: 8.2	Mounting	: B3R(D)		
No load current	: 11.1-10.0/5.02 A	Rotation <sup>1</sup>	: CCW		
Rated speed	: 1730 rpm	Noise level <sup>2</sup>	: 55.0 dB(A)		
Slip	: 3.89 %	Starting method	: Direct On Line		
Rated torque	: 3.15 kgfm	Approx. weight <sup>3</sup>	: 75.3 kg		
Locked rotor torque	: 370 %				
Breakdown torque	: 400 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.0140 kgm <sup>2</sup>				
Design	: N				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	83.5	85.0	85.3	Max. traction : 276 kgf	
Power Factor	0.60	0.74	0.80	Max. compression : 352 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	27/10/2024			1 / 2	

# LOAD PERFORMANCE CURVE

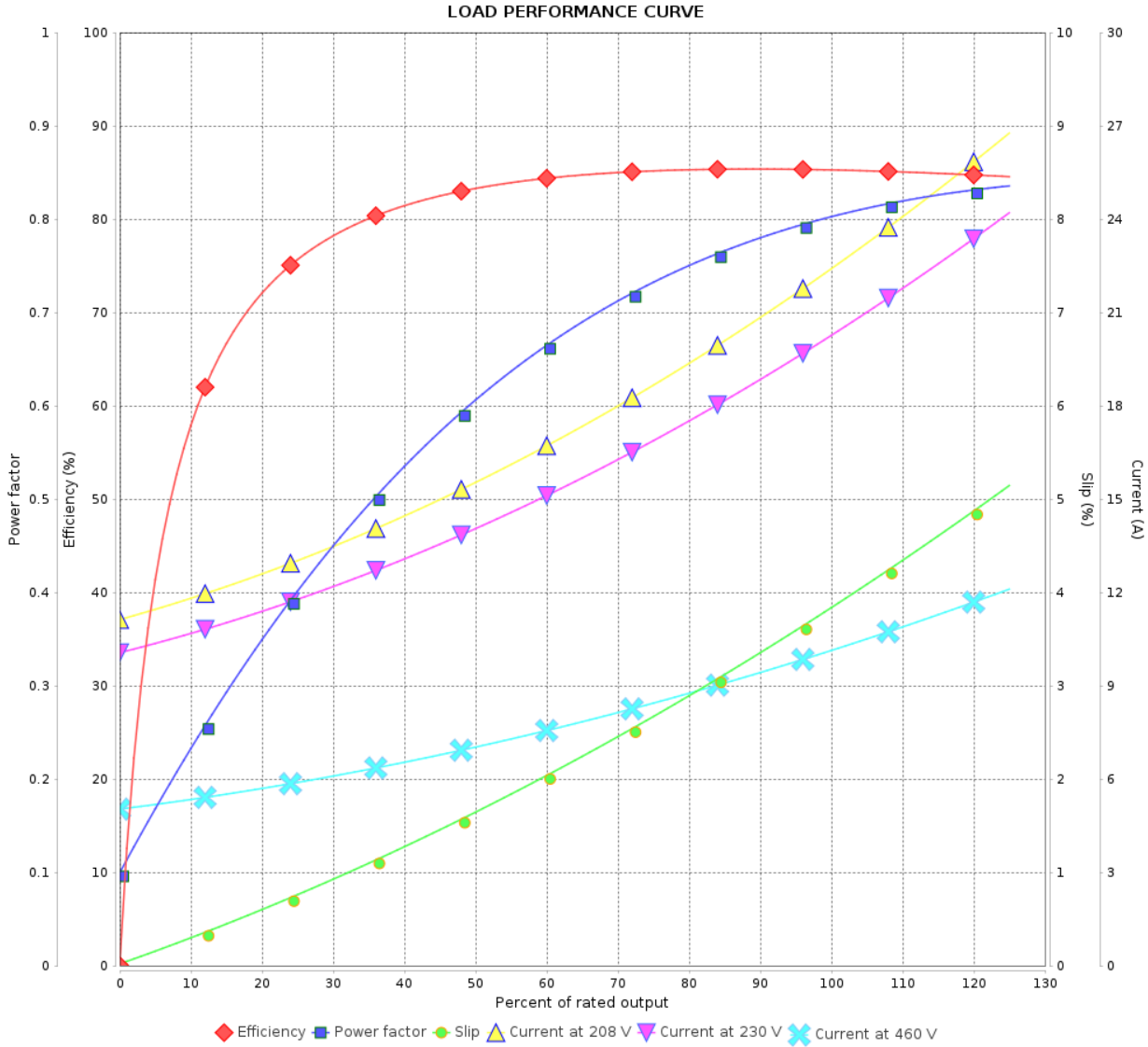
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard  
Efficiency Three-Phase

Product code : 14180603

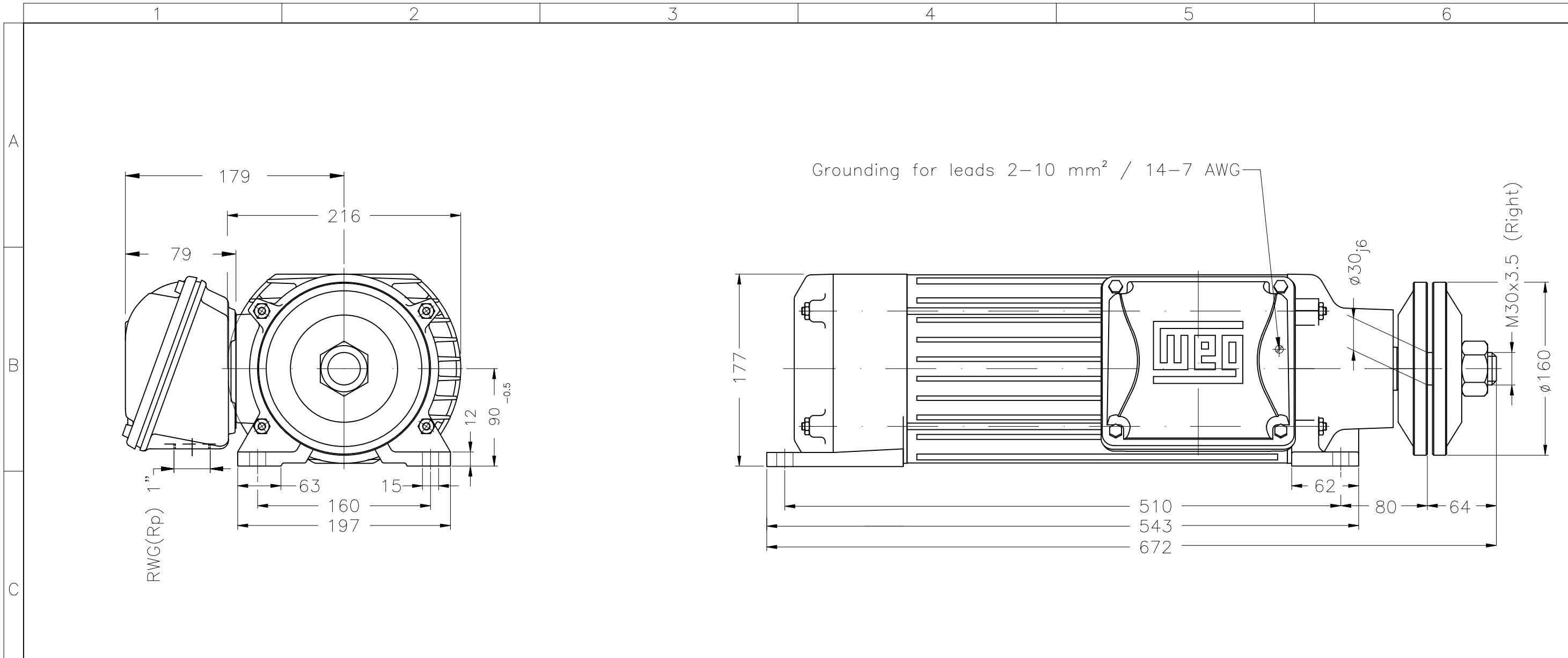


Performance : 208-230/460 V 60 Hz 4P

Rated current : 22.4-20.3/10.1 A  
 LRC : 8.2  
 Rated torque : 3.15 kgfm  
 Locked rotor torque : 370 %  
 Breakdown torque : 400 %  
 Rated speed : 1730 rpm

Moment of inertia (J) : 0.0140 kgm<sup>2</sup>  
 Duty cycle : S6  
 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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Counterclockwise rotation  
 Color RAL 7022  
 Painting plan 207A  
 Mounting B3R(D)

7.5 HP 04 Poles 60 Hz		A	
ECM	LOC	SUMMARY OF MODIFICATIONS	HYBRISUSER
EXECUTED	HYBRISUSER	THREE PH. MOTOR SAW ARBOR MOTOR	00
CHECKED		FRAME 90L/MS IP54 TEFC	
RELEASED			
REL. DATE	WMO	Jaragua do Sul	Product Engineering

7.5 HP 04 Poles 60 Hz		A	
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PREVIEW  
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 SHEET 1 / 1