

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					
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LOAD PERFORMANCE CURVE

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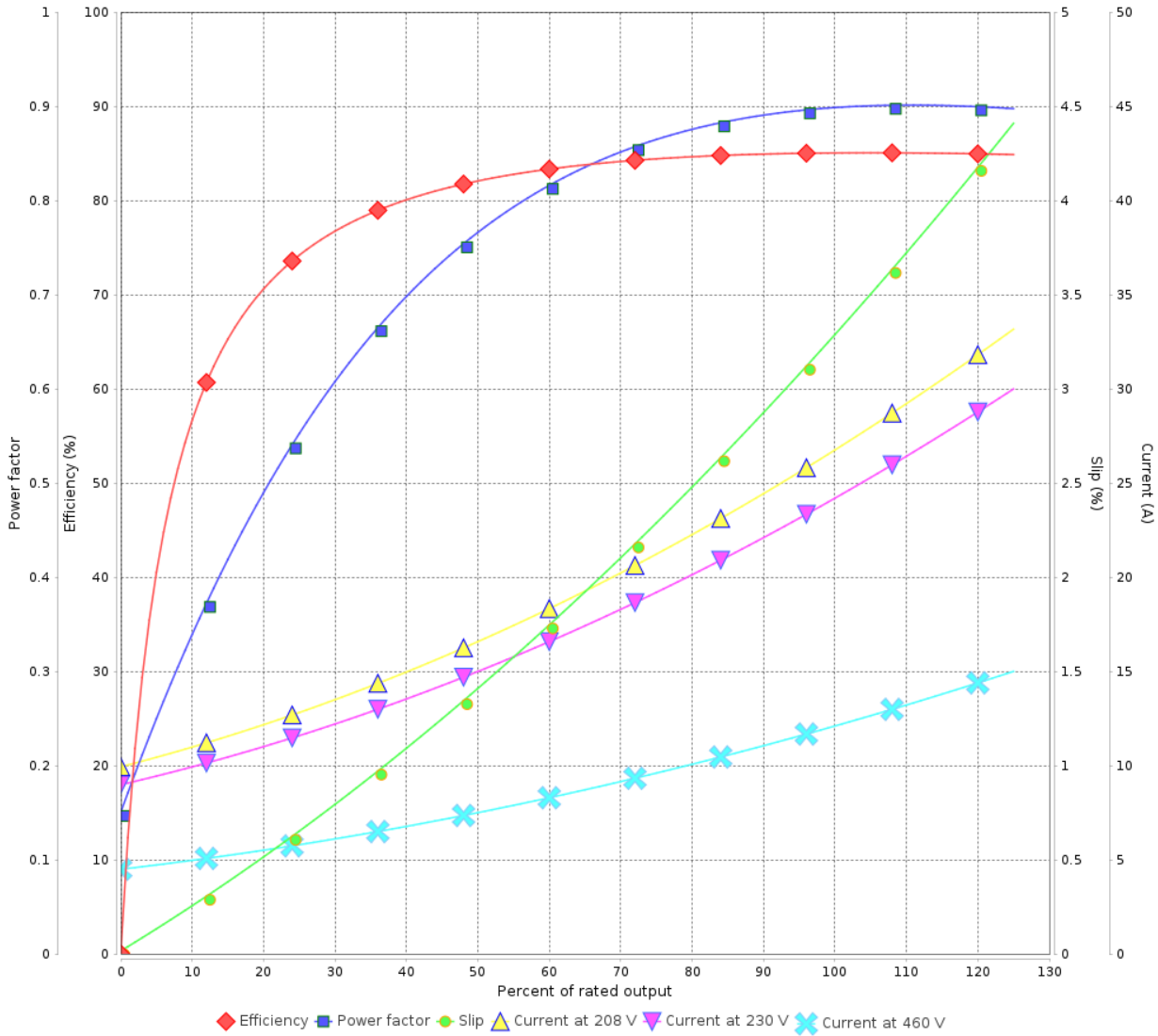


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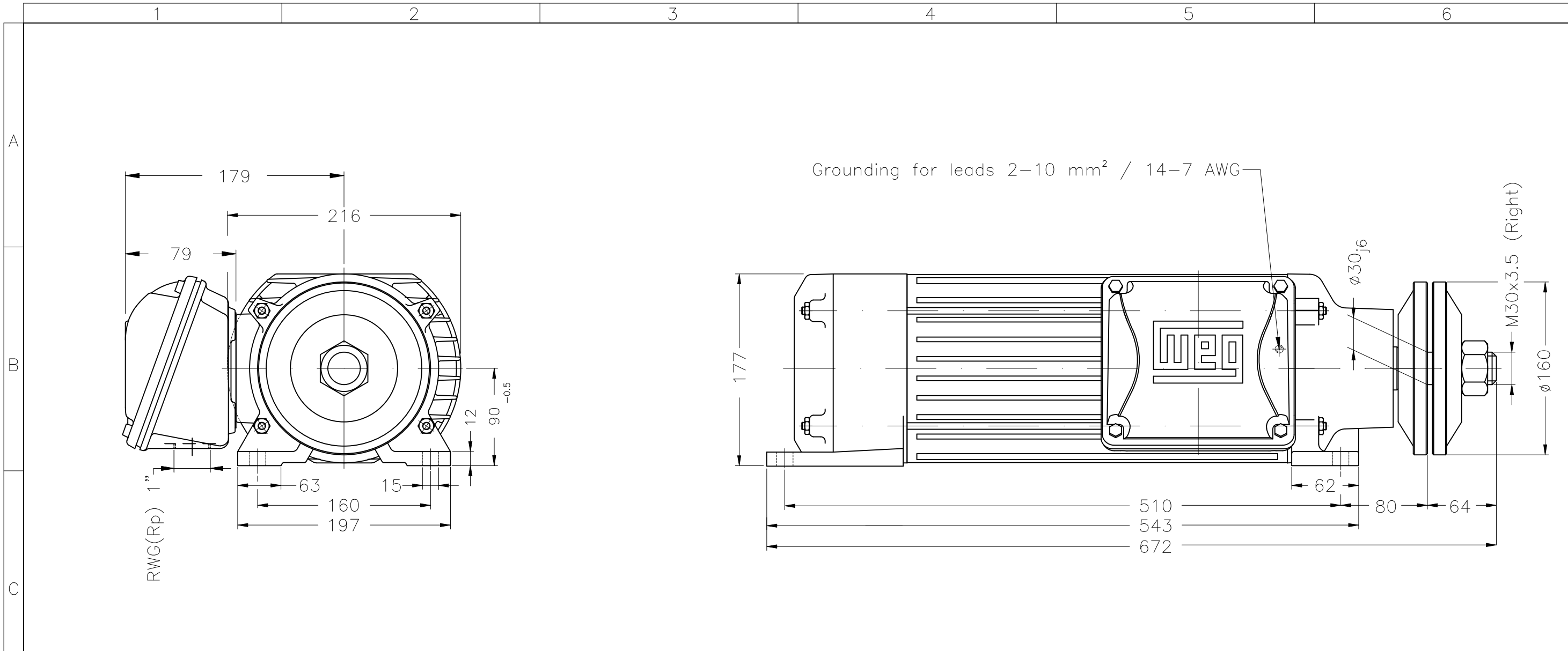


Performance : 208-230/460 V 60 Hz 2P

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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Counterclockwise rotation
 Color RAL 7022
 Painting plan 207A
 Mounting B3R(D)

10 HP 02 Poles 60 Hz		A
ECM	LOC	
EXECUTED	HYBRISUSER	
CHECKED		
RELEASED		
REL. DATE	WMO	
THREE PH. MOTOR SAW ARBOR MOTOR FRAME 90L/MS IP54 TEFC		PREVIEW WDD 00 SHEET 1 / 1
Jaragua do Sul		

Dimensions in mm XME A3