

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: Saw Arbor Motor Standard Efficiency Three-Phase		Product code : 14984959	
Frame	:	80S/MS	Locked rotor time	: 16s (cold) 9s (hot)	
Output	:	3 HP (2.2 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	:	9.49-8.58/4.29 A	Protection degree	: IP54	
L. R. Amperes	:	69.3-62.6/31.3 A	Cooling method	: IC411 - TEFC	
LRC	:	7.3	Mounting	: B3R(D)	
No load current	:	4.55-4.11/2.06 A	Rotation <sup>1</sup>	: CW	
Rated speed	:	3500 rpm	Noise level <sup>2</sup>	: 62.0 dB(A)	
Slip	:	2.78 %	Starting method	: Direct On Line	
Rated torque	:	0.622 kgfm	Approx. weight <sup>3</sup>	: 38.6 kg	
Locked rotor torque	:	330 %			
Breakdown torque	:	370 %			
Insulation class	:	F			
Service factor	:	1.15			
Moment of inertia (J)	:	0.0032 kgm <sup>2</sup>			
Design	:	N			
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	76.0	79.5	80.5	Max. traction : 29 kgf	
Power Factor	0.65	0.75	0.80	Max. compression : 67 kgf	
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6307 ZZ	6207 ZZ		
Sealing	:	Without Bearing Seal	Without Bearing Seal		
Lubrication interval	:	-	-		
Lubricant amount	:	-	-		
Lubricant type	:	Mobil Polyrex EM			
Notes					
<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p>			<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>		
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	29/10/2024			1 / 2	

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

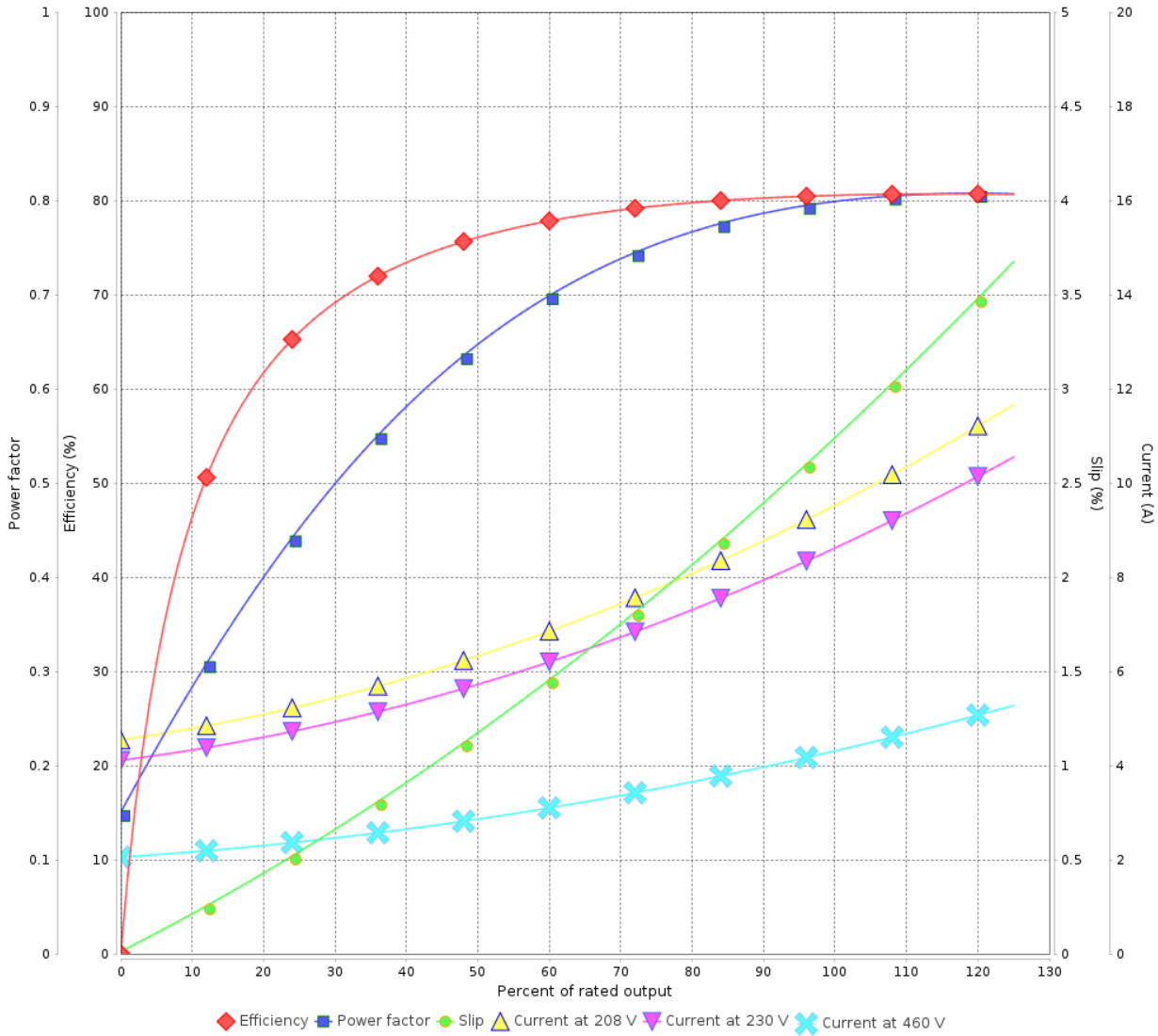


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Product line : Saw Arbor Motor Standard  
Efficiency Three-Phase

Product code : 14984959

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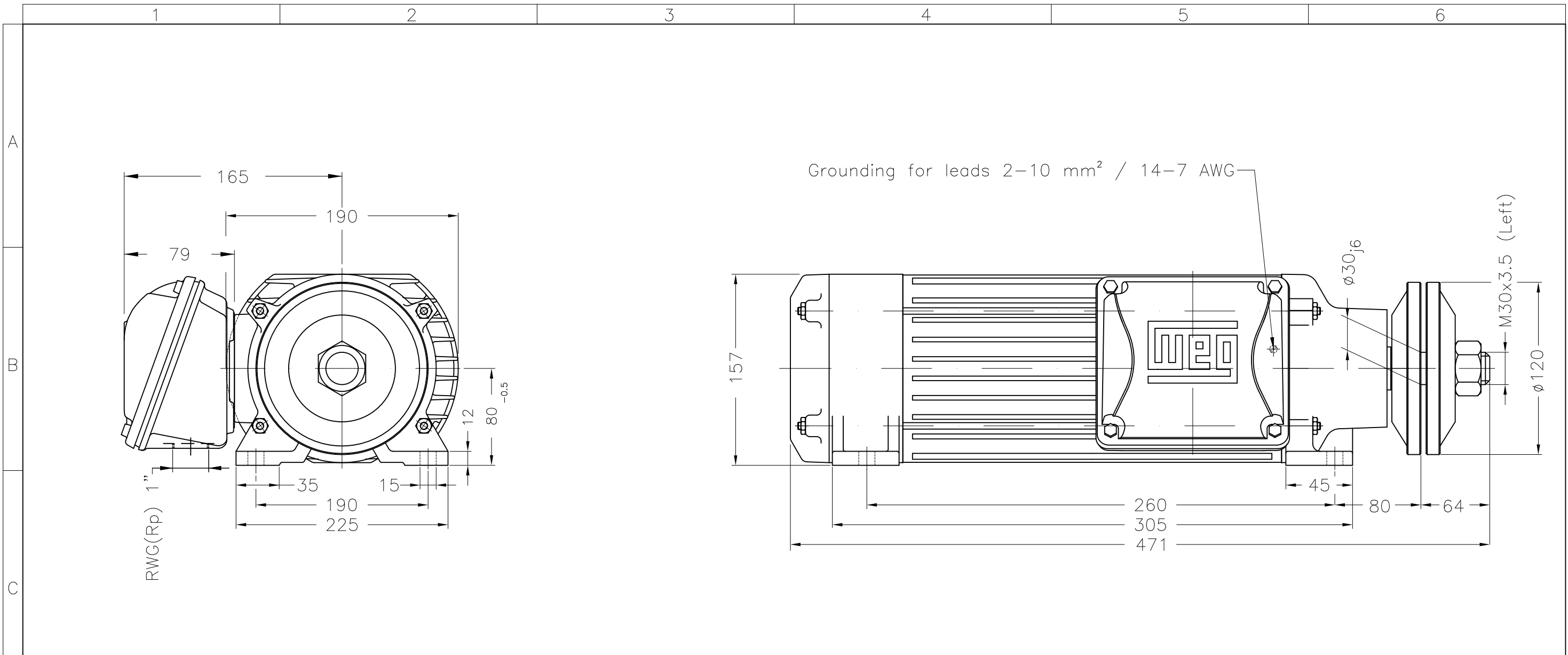


Performance : 208-230/460 V 60 Hz 2P

Rated current : 9.49-8.58/4.29 A  
 LRC : 7.3  
 Rated torque : 0.622 kgfm  
 Locked rotor torque : 330 %  
 Breakdown torque : 370 %  
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0032 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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D										

E	3 HP 02 Poles 60 Hz										A
						HYBRISUSER				00	
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER	
EXECUTED	HYBRISUSER	THREE PH. MOTOR SAW ARBOR MOTOR				PREVIEW				WDD 00	
CHECKED		FRAME 80S/MS IP54 TEFC				WDD		00		WEG	
RELEASED						SHEET		1 / 1			
REL. DATE		WMO	Jaragua do Sul	Product Engineering							

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