

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: Saw Arbor Motor Standard Efficiency Three-Phase		Product code : 14301494	
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	: 575 V	Altitude	: 1000 m.a.s.l.		
Rated current	: 3.43 A	Protection degree	: IP54		
L. R. Amperes	: 25.1 A	Cooling method	: IC411 - TEFC		
LRC	: 7.3	Mounting	: B3R(D)		
No load current	: 1.65 A	Rotation <sup>1</sup>	: CCW		
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>	: 38.5 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					
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	28/10/2024			1 / 2	

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

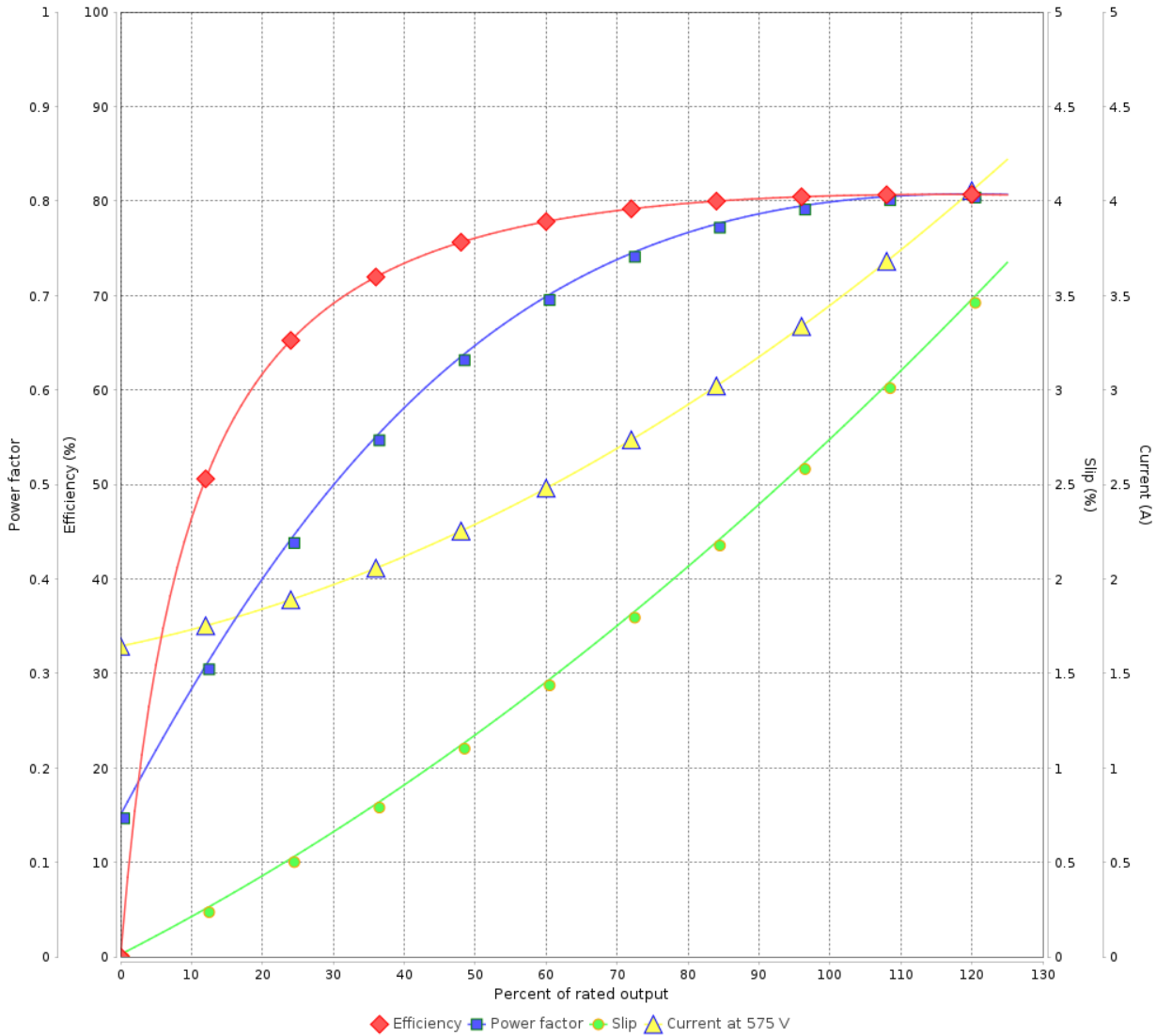


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Product line : Saw Arbor Motor Standard  
Efficiency Three-Phase

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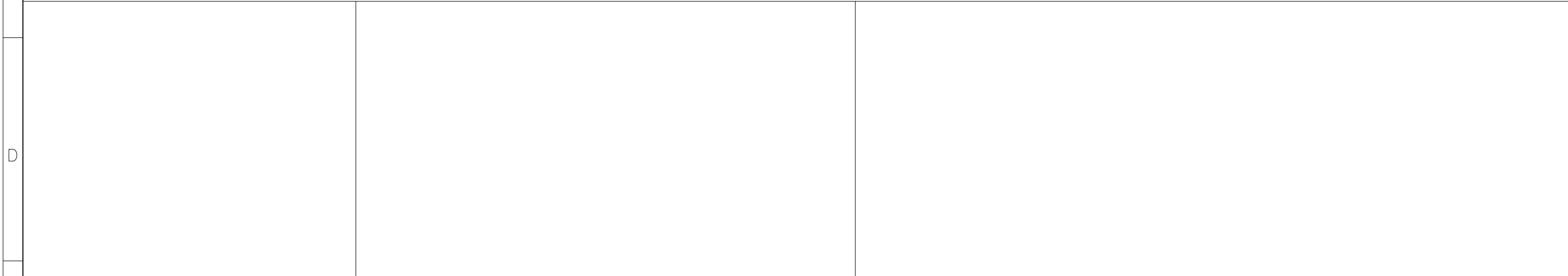
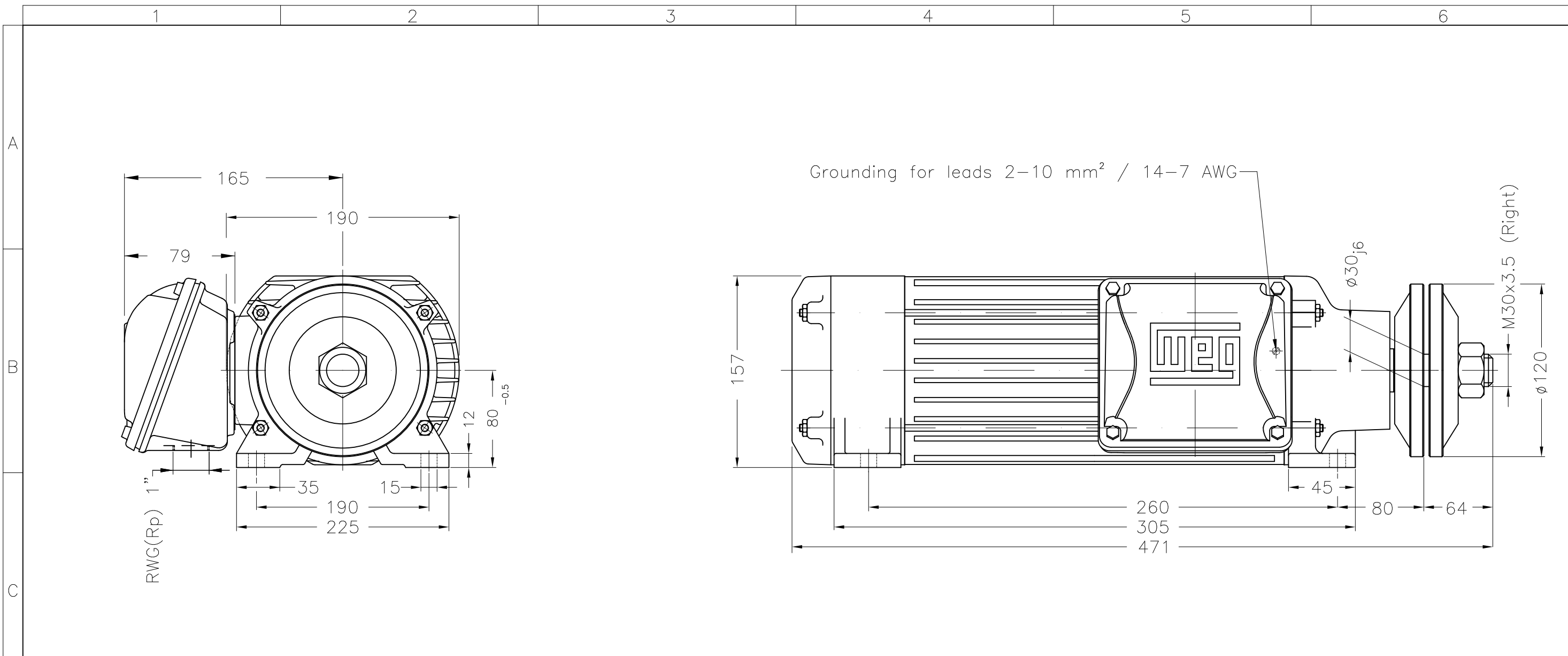


Performance : 575 V 60 Hz 2P

Rated current : 3.43 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
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Counterclockwise rotation				3 HP 02 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 80S/MS IP54 TEFC		WDD		00	
RELEASED				SHEET		1 / 1	
REL. DATE		WMO	Jaragua do Sul	Product Engineering			