

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: Saw Arbor Motor Standard Efficiency Three-Phase		Product code : 12214391		
Frame	: 80M/MS	Locked rotor time	: 12s (cold) 7s (hot)			
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K			
Poles	: 2	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	: 14.7-13.3/6.65 A	Protection degree	: IP54			
L. R. Amperes	: 118-106/53.2 A	Cooling method	: IC411 - TEFC			
LRC	: 8.0	Mounting	: B3R(D)			
No load current	: 6.35-5.74/2.87 A	Rotation ¹	: CCW			
Rated speed	: 3470 rpm	Noise level ²	: 62.0 dB(A)			
Slip	: 3.61 %	Starting method	: Direct On Line			
Rated torque	: 1.05 kgfm	Approx. weight ³	: 45.1 kg			
Locked rotor torque	: 340 %					
Breakdown torque	: 409 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.0041 kgm ²					
Design	: N					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	82.0	84.5	85.0	Max. traction : 67 kgf		
Power Factor	0.66	0.77	0.82	Max. compression : 112 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	26/10/2024				1 / 2	

LOAD PERFORMANCE CURVE

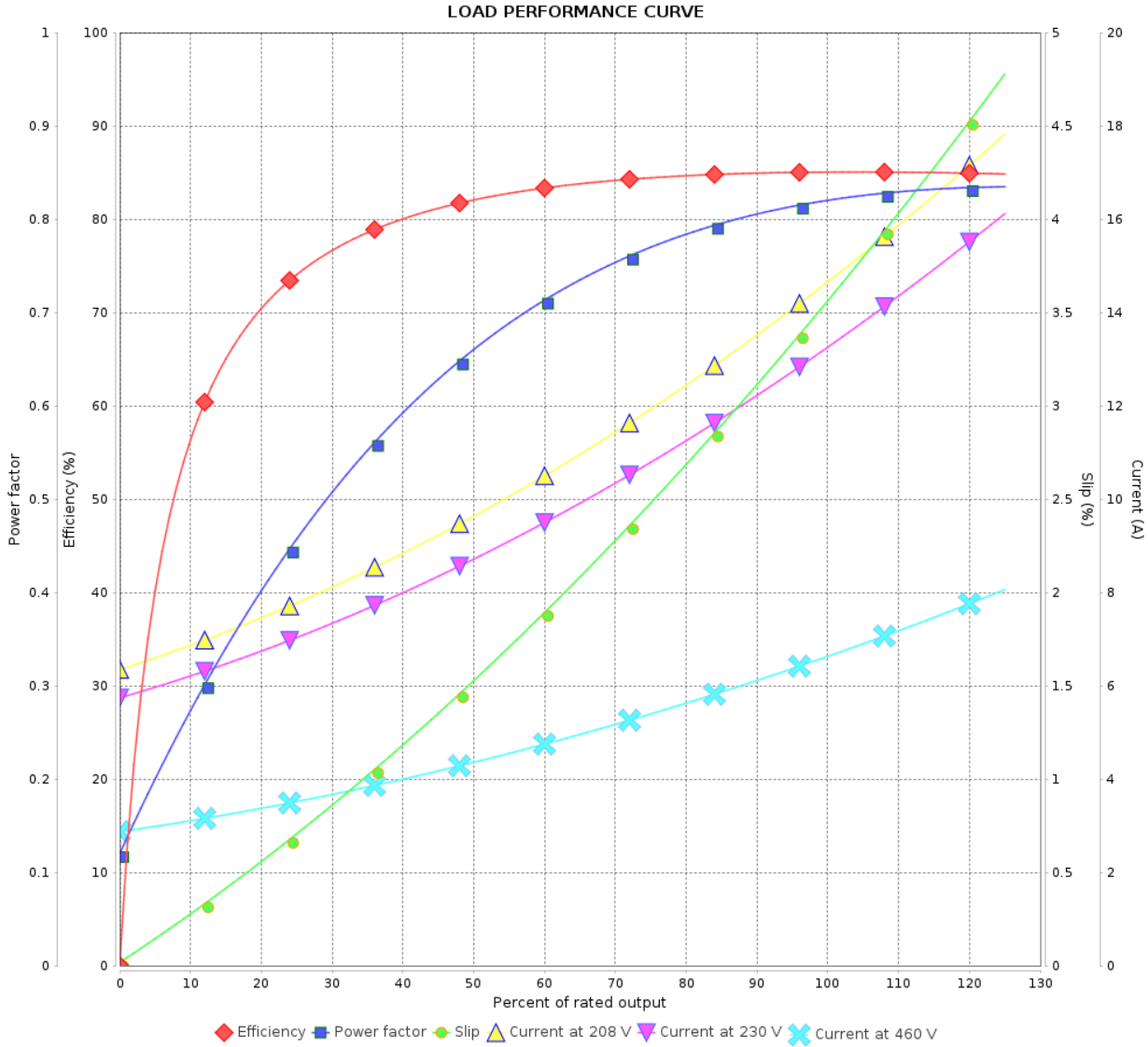
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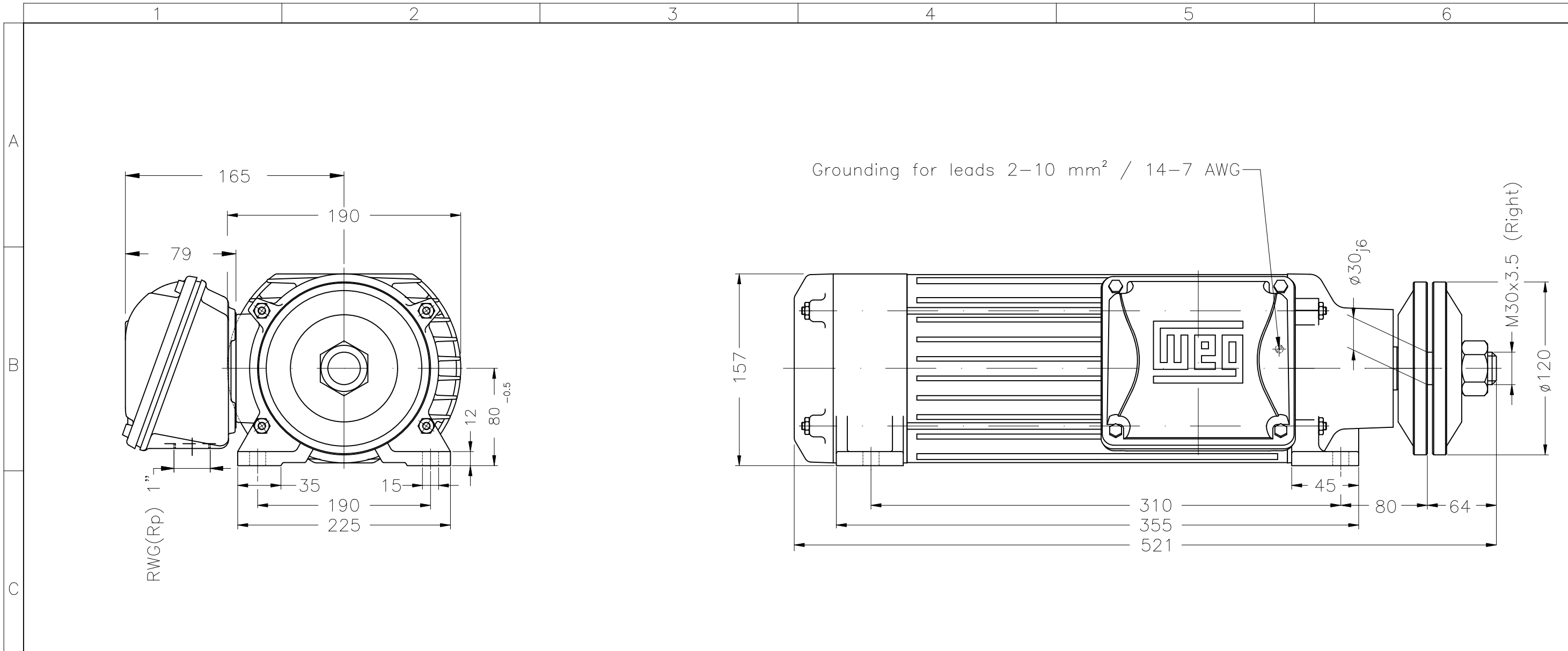


Performance : 208-230/460 V 60 Hz 2P

Rated current : 14.7-13.3/6.65 A
 LRC : 8.0
 Rated torque : 1.05 kgfm
 Locked rotor torque : 340 %
 Breakdown torque : 409 %
 Rated speed : 3470 rpm

Moment of inertia (J) : 0.0041 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : N

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D												

E	Counterclockwise rotation										<table border="1"> <tr> <td>ECM</td> <td>LOC</td> <td colspan="4">SUMMARY OF MODIFICATIONS</td> <td>EXECUTED</td> <td>CHECKED</td> <td>RELEASED</td> <td>DATE</td> <td>VER</td> </tr> <tr> <td>EXECUTED</td> <td>HYBRISUSER</td> <td colspan="4">THREE PH. MOTOR SAW ARBOR MOTOR</td> <td colspan="2">PREVIEW</td> <td colspan="3"></td> </tr> <tr> <td>CHECKED</td> <td></td> <td colspan="4">FRAME 80M/MS IP54 TEFC</td> <td colspan="2">WDD</td> <td colspan="3">00</td> </tr> <tr> <td>RELEASED</td> <td></td> <td colspan="4"></td> <td colspan="2">SHEET</td> <td colspan="3">1 / 1</td> </tr> <tr> <td>REL. DATE</td> <td></td> <td colspan="4">WMO Jaragua do Sul</td> <td colspan="2">Product Engineering</td> <td colspan="3"></td> </tr> </table>	ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER	EXECUTED	HYBRISUSER	THREE PH. MOTOR SAW ARBOR MOTOR				PREVIEW					CHECKED		FRAME 80M/MS IP54 TEFC				WDD		00			RELEASED						SHEET		1 / 1			REL. DATE		WMO Jaragua do Sul				Product Engineering				
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