

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: Saw Arbor Motor Standard Efficiency Three-Phase		Product code : 14337393			
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 ¹	:	CCW	
Rated speed	:	3500 rpm		Noise level ²	:	62.0 dB(A)	
Slip	:	2.78 %		Starting method	:	Direct On Line	
Rated torque	:	0.622 kgfm		Approx. weight ³	:	38.7 kg	
Locked rotor torque	:	330 %					
Breakdown torque	:	370 %					
Insulation class	:	F					
Service factor	:	1.15					
Moment of inertia (J)	:	0.0032 kgm ²					
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

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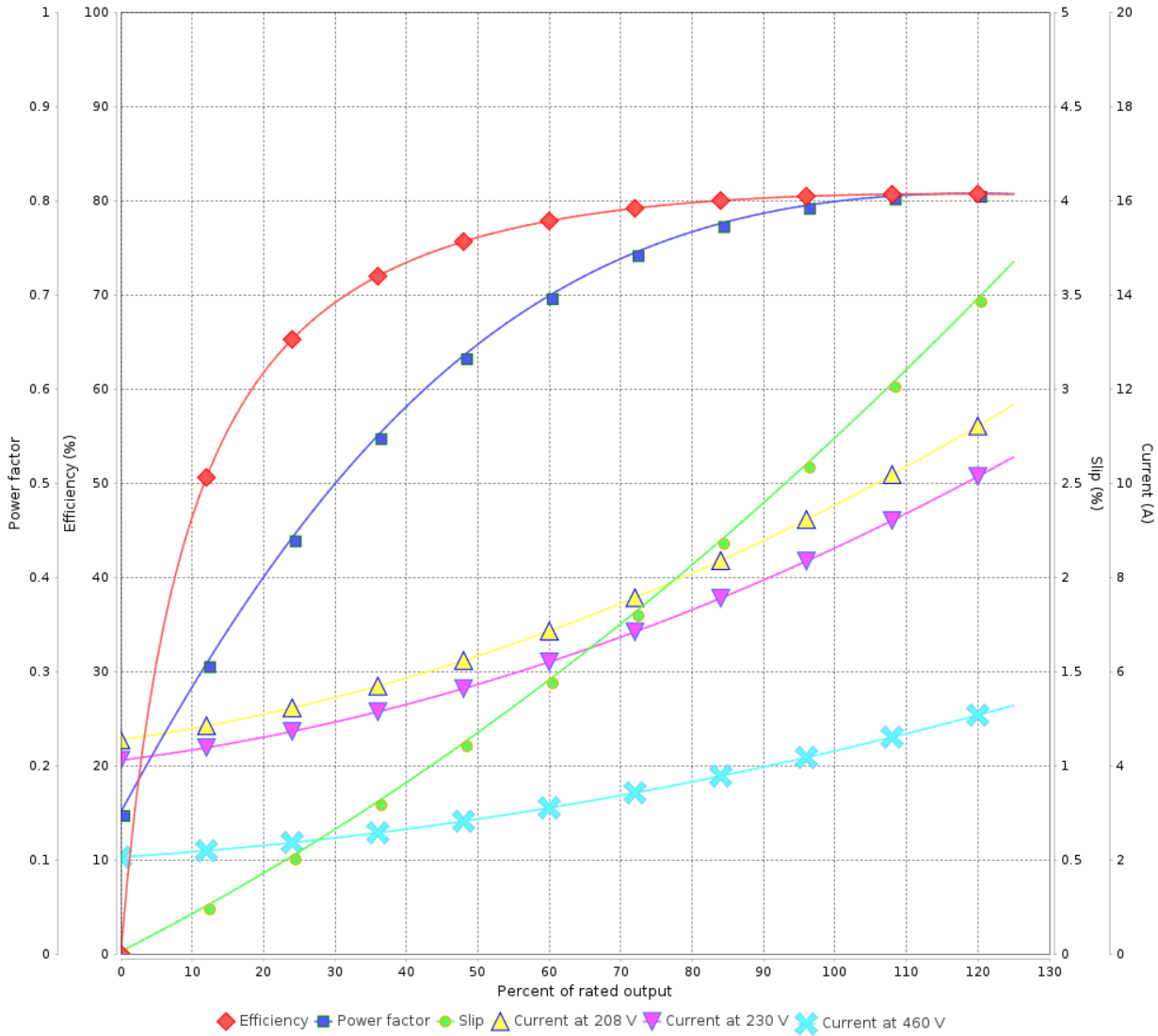


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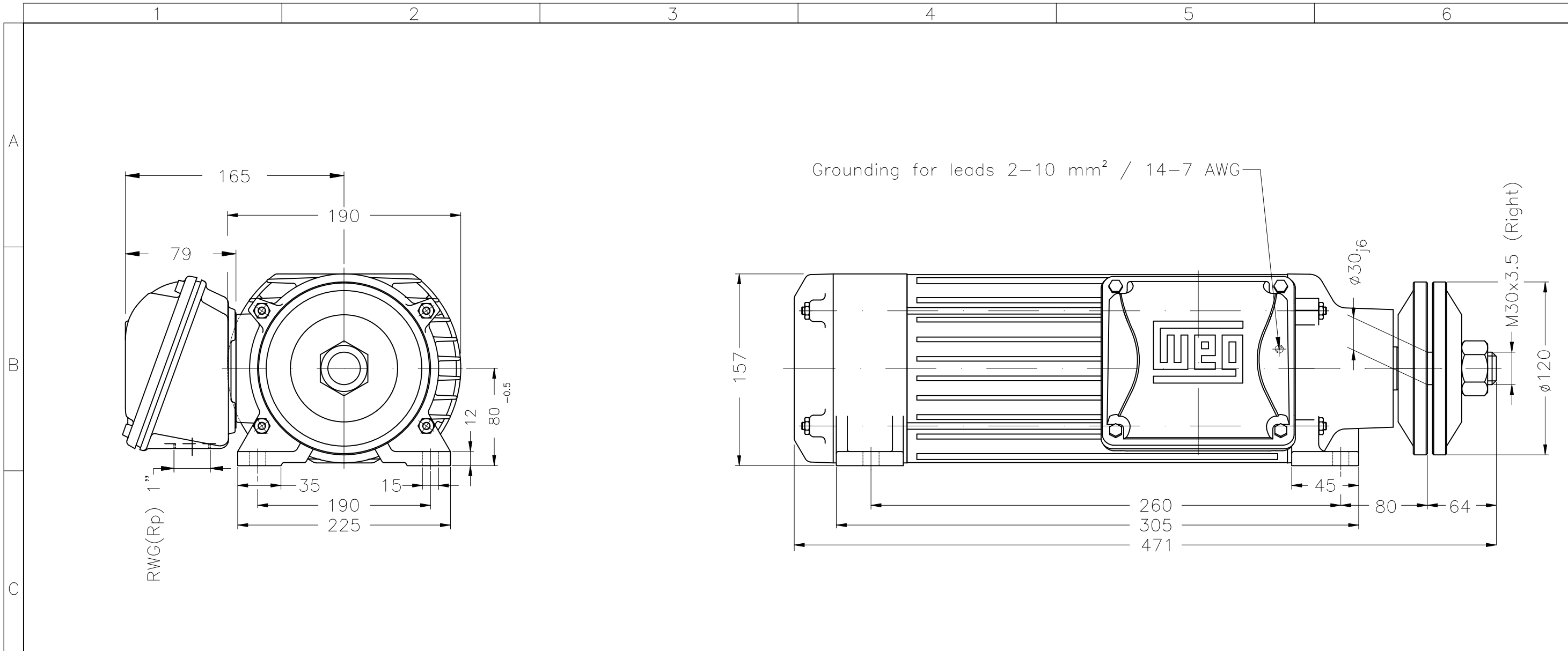


Performance : 208-230/460 V 60 Hz 2P

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 kgm²
 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
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D												

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