

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard Efficiency Three-Phase      Product code : 10793852

Frame	: 90L/MS	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 10 HP (7.5 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	: 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 <sup>1</sup>	: CCW
Rated speed	: 3480 rpm	Noise level <sup>2</sup>	: 68.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 2.09 kgfm	Approx. weight <sup>3</sup>	: 76.1 kg
Locked rotor torque	: 400 %		
Breakdown torque	: 420 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0140 kgm <sup>2</sup>		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	82.0	84.5	85.0	Max. traction	: 180 kgf
Power Factor	0.77	0.86	0.90	Max. compression	: 257 kgf

	Drive end	Non drive end
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				
Checked by			Page	Revision
Date	26/10/2024		1 / 2	

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

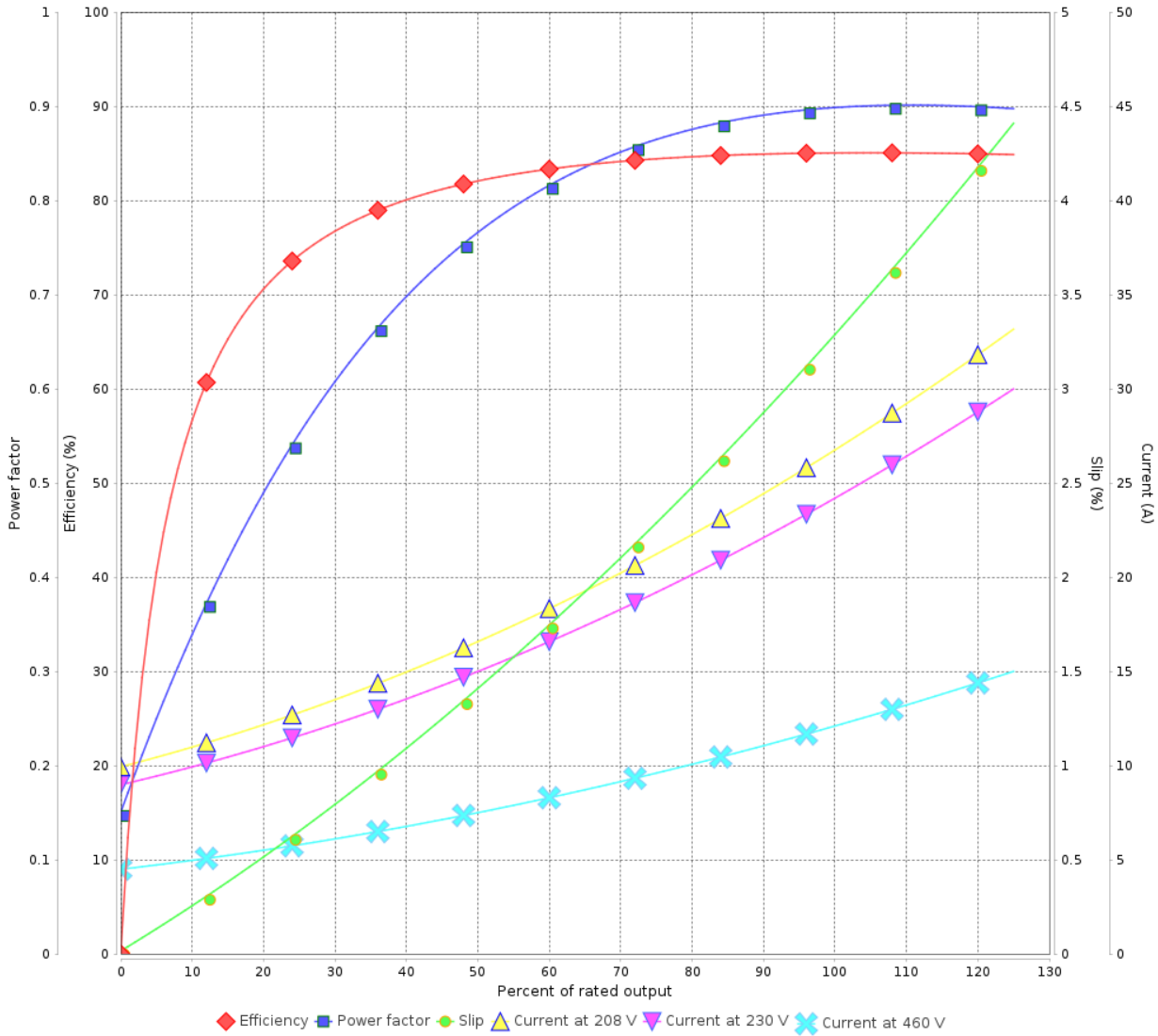


Customer :

Product line : Saw Arbor Motor Standard  
Efficiency Three-Phase

Product code : 10793852

LOAD PERFORMANCE CURVE



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 kgm<sup>2</sup>  
 Duty cycle : S1  
 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				
Date	26/10/2024			

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EIXO	
PADRÃO	X
OPCIONAL	
ESPECIAL	

Dimensões em mm  
Dimensions in mm

THIS IS AN UPDATED REVISION, THE PREVIOUS ONE MUST BE DISREGARDED.

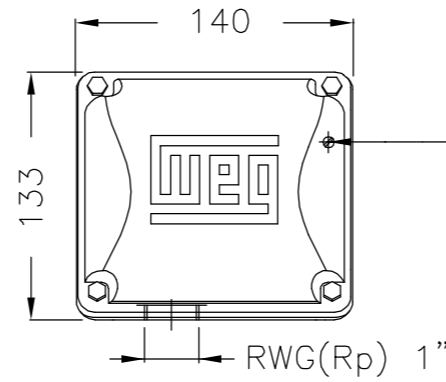
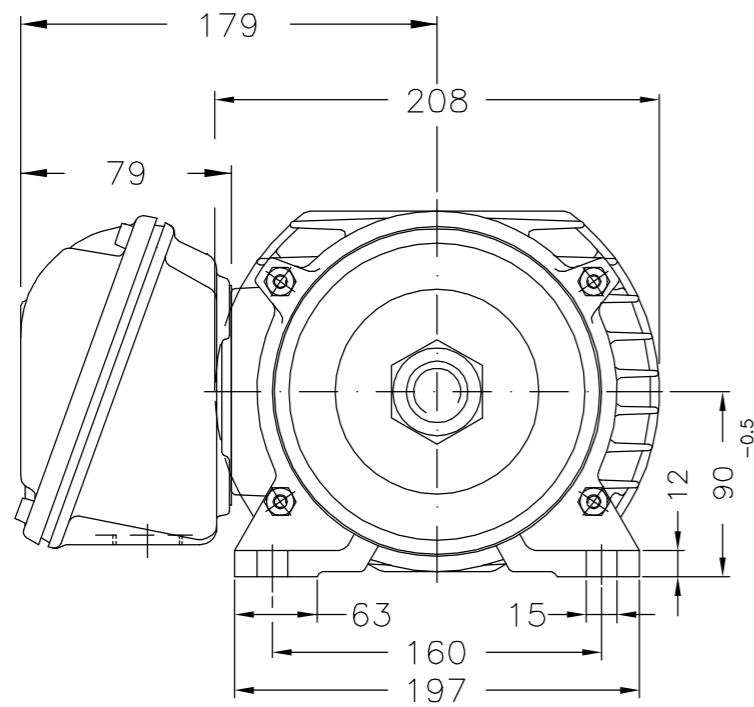
A

B

C

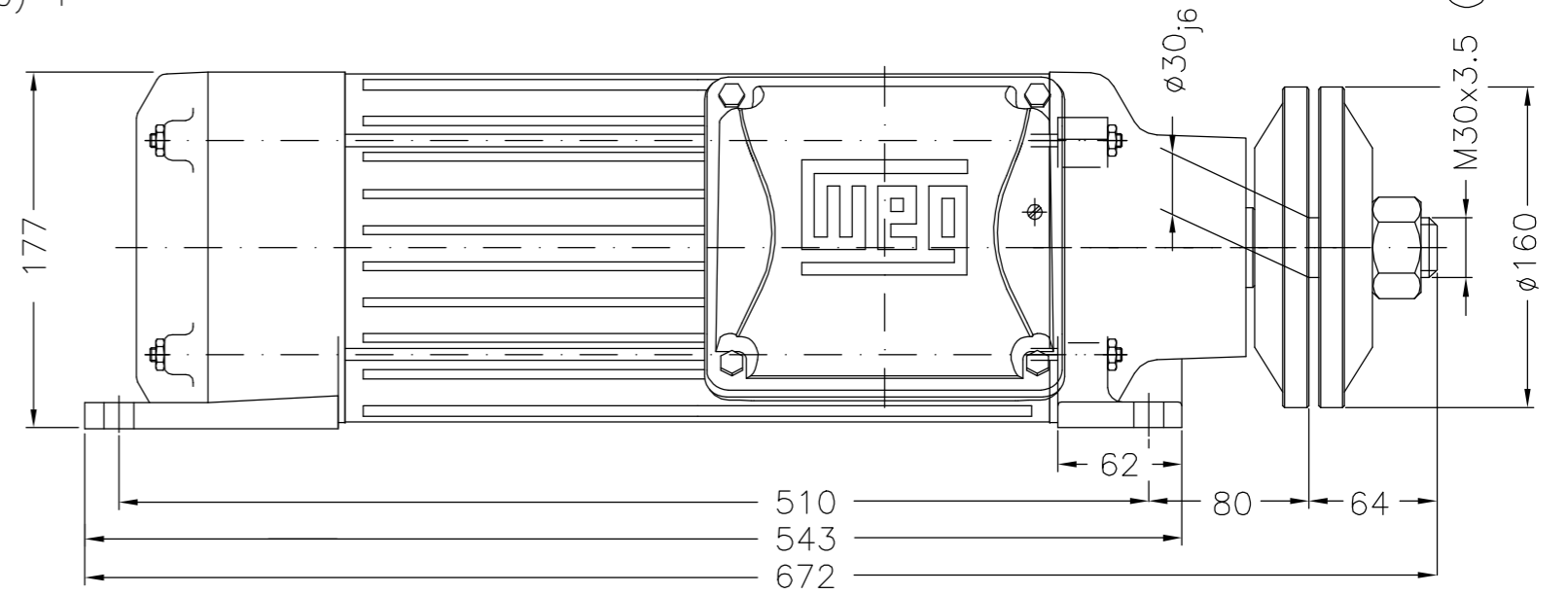
D

E



Grounding for leads 2-10 mm<sup>2</sup> / 14-7 AWG

Main terminal box



Fornecido com 2 arruelas onduladas no mancal traseiro /  
Supplied with 2 preload washers at non-drive end  
Isolamento Classe F (Dt=80K) / Class F insulation - 80K temperature rise  
Sentido de rotação anti-horário / Counter clockwise rotation  
Fator de serviço 1.0 / Service factor 1.0  
Forma construtiva B3D / Mounting B3R(D)

500001273522		ALT. CONFORME CLAIM 414559355	FRANCINES	CASSIO	23.02.2017	03	
500000656433		ALT. CONFORME CLAIM 412584631	ANDERSONLB	CAMILAH	11.09.2012	02	
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	ADRIANAP	THREE PHASE SAW ARBOR MOTOR FRAME 90L/MS IP54	E1003239				
CHECKED			000	03			
RELEASED	RUDMAR		SHEET 1 / 1				
REL DT	21.09.2008	WMO	JARAGUA DO SUL	ENGENHARIA DE PRODUTO			

7.5 HP 4 POLE 60 Hz  
10 HP 2 POLE 60 Hz

B  
A