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[1]	: CCW
Rated speed	: 3480 rpm	Noise level[2]	: 68.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 2.09 kgfm	Approx. weight[3]	: 76.1 kg
Locked rotor torque	: 400 %		
Breakdown torque	: 420 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0140 kgm²		
Design	: N		

Output	50%	75%	100%
Efficiency (%)	82.0	84.5	85.0
Power Factor	0.77	0.86	0.90

Foundation loads

Max. traction	: 180 kgf
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

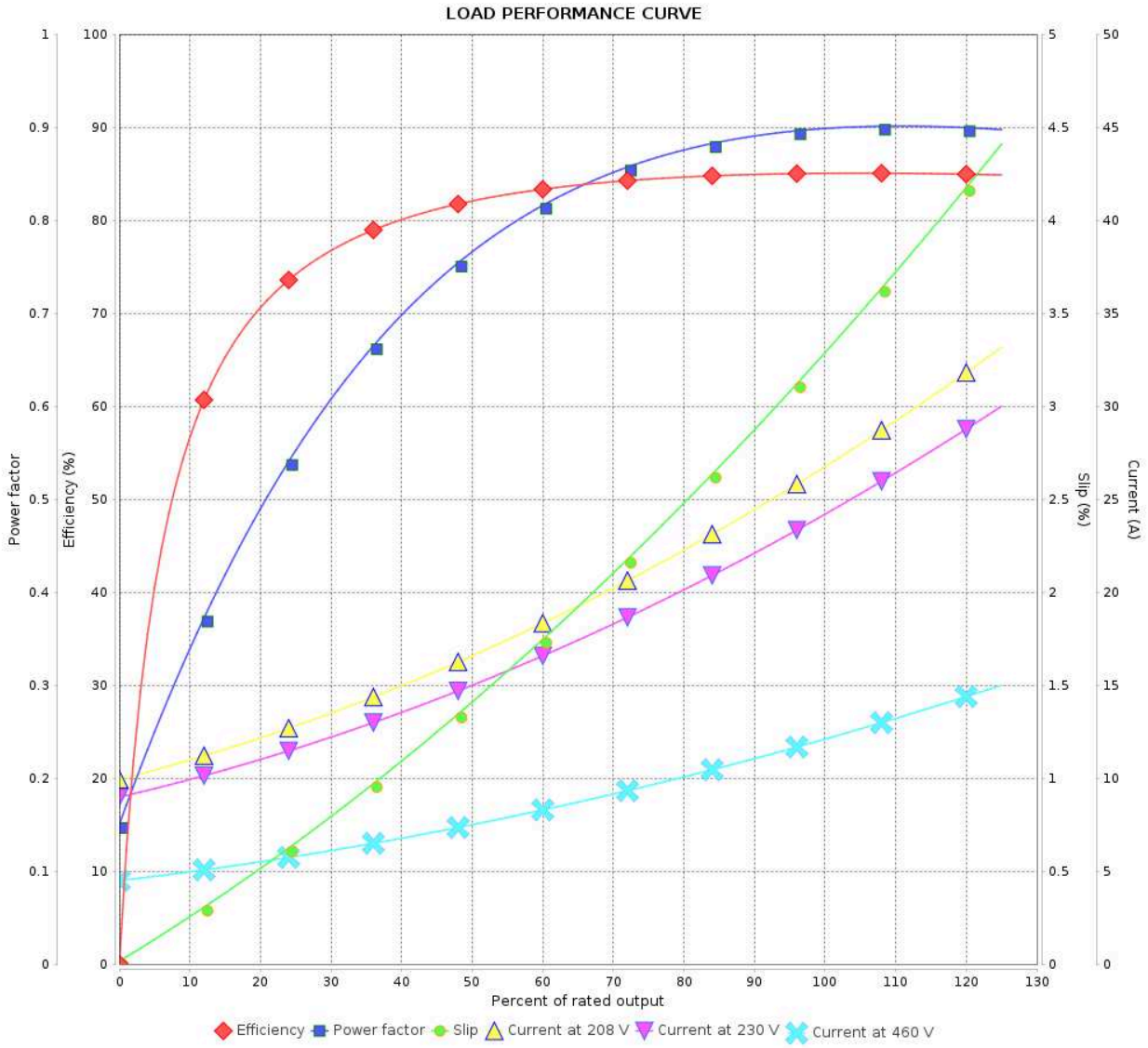
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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



Performance	: 208-230/460 V 60 Hz 2P		
Rated current	: 27.2-24.6/12.3 A	Moment of inertia (J)	: 0.0140 kgm²
LRC	: 8.7	Duty cycle	: S1
Rated torque	: 2.09 kgfm	Insulation class	: F
Locked rotor torque	: 400 %	Service factor	: 1.15
Breakdown torque	: 420 %	Temperature rise	: 80 K
Rated speed	: 3480 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	26/10/2024		2 / 2	

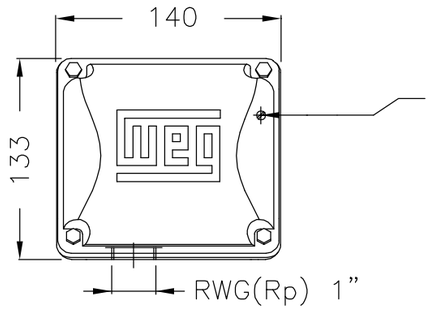
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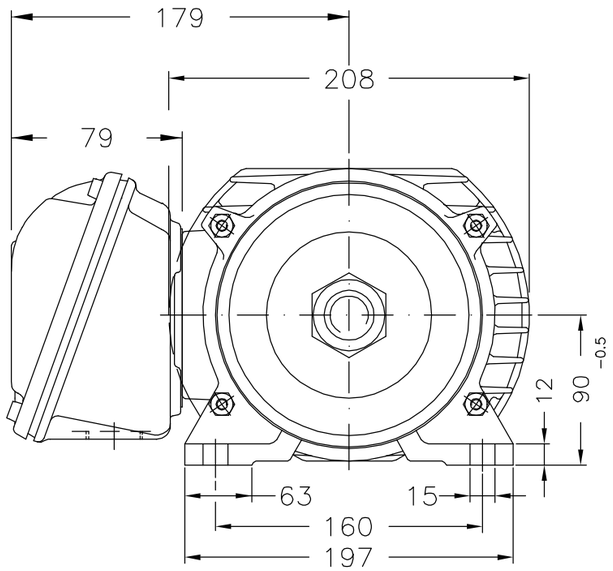
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EIXO	
PADRÃO	X
OPCIONAL	
ESPECIAL	

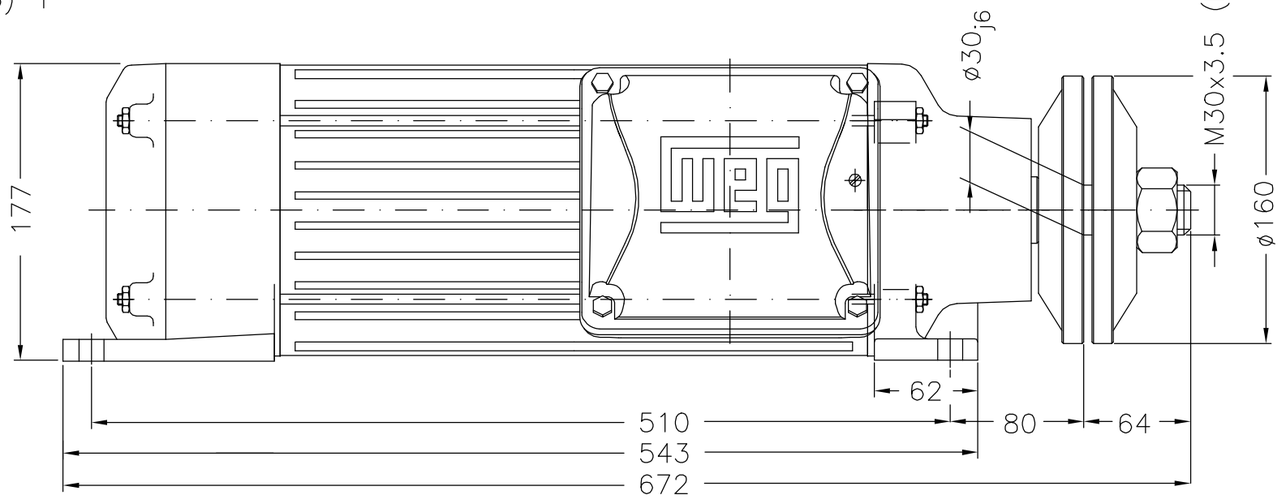
Dimensões em mm
Dimensions in mm

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





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)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
500001273522		ALT. CONFORME CLAIM 414559355	FRANCINES		CASSIO	23.02.2017	03
500000656433		ALT.CONFORME CLAIM 412584631	ANDERSONLB		CAMILAH	11.09.2012	02

EXECUTED	ADRIANAP	THREE PHASE SAW ARBOR MOTOR	E1003239
CHECKED		FRAME 90L/MS IP54	000 03
RELEASED	RUDMAR		
REL DT	21.09.2008	WMO JARAGUA DO SUL ENGENHARIA DE PRODUTO	SHEET 1 / 1

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

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