DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Saw Arbor Motor Standard Efficiency Three-Phase	Product code :	10796958

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	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 5.32 A	Protection degree	: IP54
L. R. Amperes	: 42.5 A	Cooling method	: IC411 - TEFC
LRC	: 8.0	Mounting	: B3R(D)
No load current	: 2.30 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]	: 45.0 kg
Locked rotor torque	: 340 %		
Breakdown torque	: 409 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0041 kgm²		
Design	: N		

Output	50%	75%	100%
Efficiency (%)	82.0	84.5	85.0
Power Factor	0.66	0.77	0.82

Foundation loads

Max. traction	: 67 kgf
Max. compression	: 112 kgf

		Drive end	Non drive end
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	

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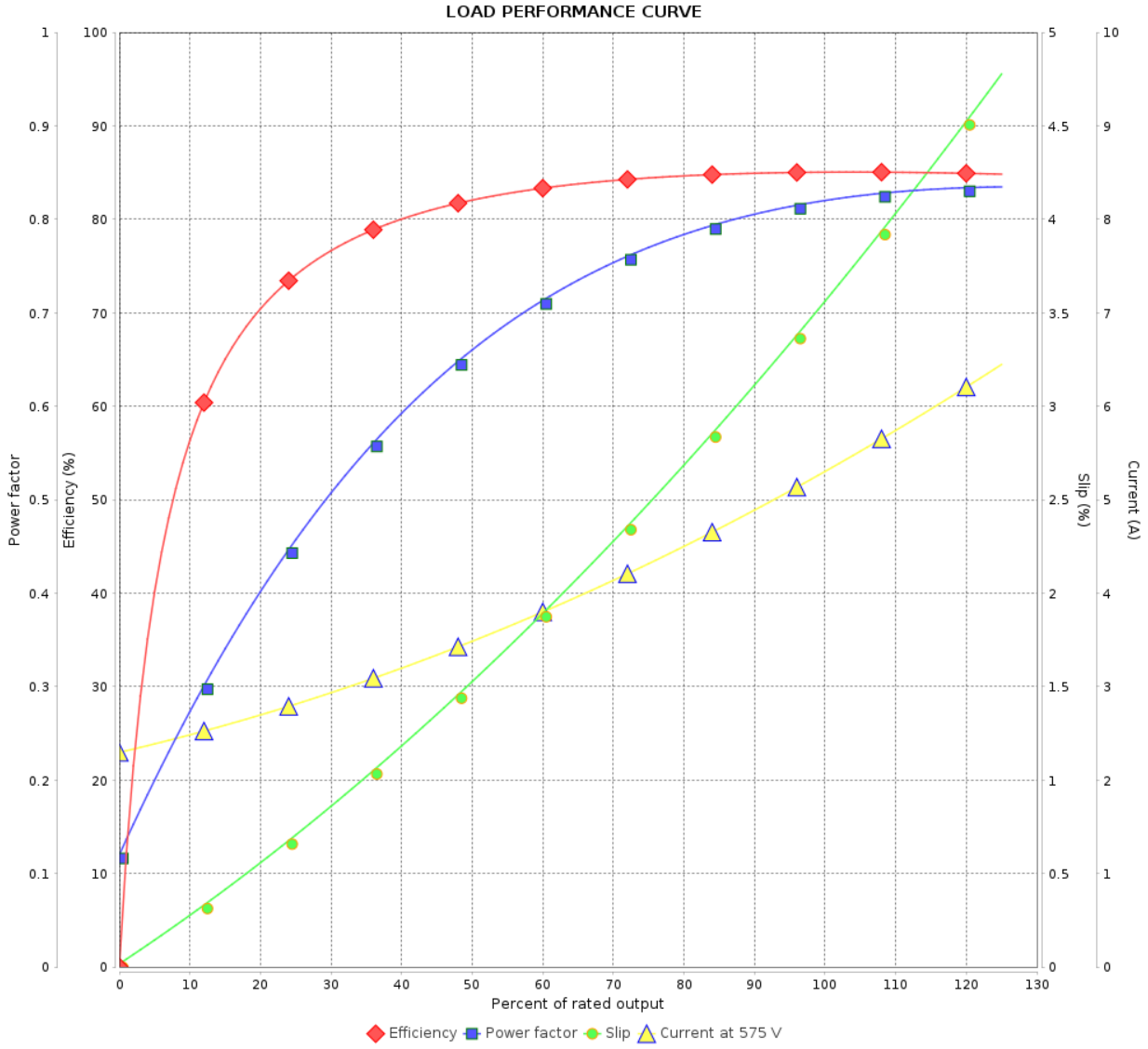
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Saw Arbor Motor Standard Efficiency Three-Phase

Product code : 10796958



Performance	: 575 V 60 Hz 2P		
Rated current	: 5.32 A	Moment of inertia (J)	: 0.0041 kgm²
LRC	: 8.0	Duty cycle	: S1
Rated torque	: 1.05 kgfm	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.15
Breakdown torque	: 409 %	Temperature rise	: 80 K
Rated speed	: 3470 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date

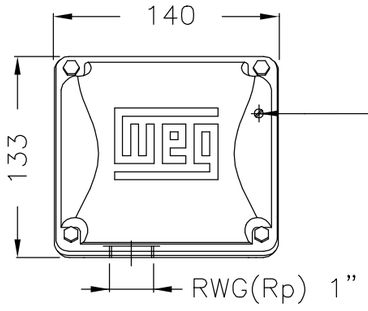
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EIXO/SHAFT	
PADRÃO/STANDARD	
OPCIONAL/OPTIONAL	
ESPECIAL/SPECIAL	x

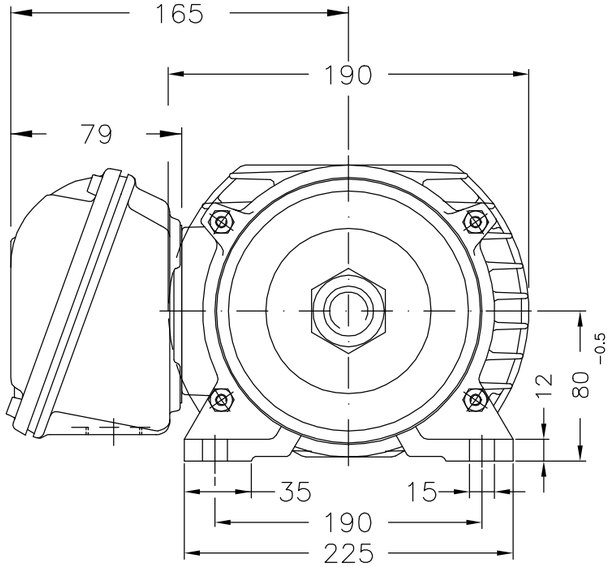
Dimensões em mm
Dimensions in mm

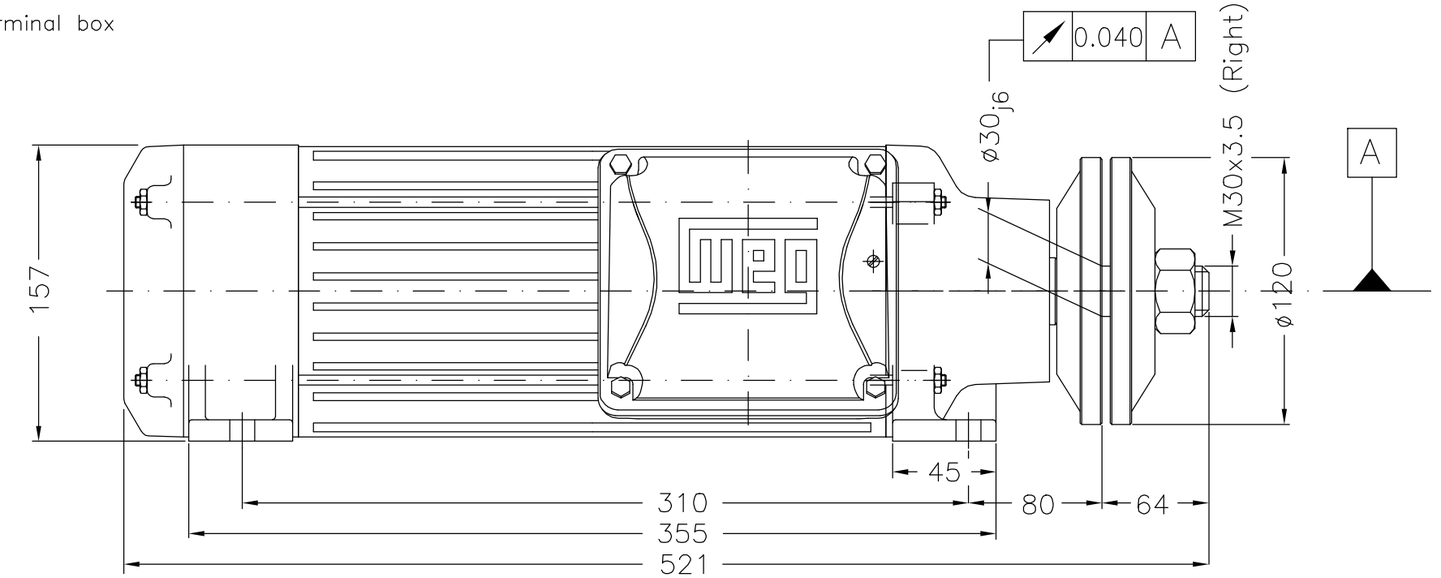
THIS IS AN UPDATED REVISION, THE PREVIOUS ONE MUST BE DISREGARDED.



Grounding for leads 2–10 mm² / 14–7 AWG

Main terminal box





Fornecido com 2 arruelas onduladas no mancal traseiro para eliminal a folga axial
Supplied with 2 washer on N.D.E. bearing to eliminate the axial clearance

Sentido de Rotação Anti-Horário / Counter clockwise rotation

Isolamento classe F (Dt=80K) / Class F insulation – 80K temperature rise

Fator de Serviço 1.00 / Service factor 1.0

Forma Construtiva B3D / Mounting – B3R(D)

500001273532		ALT. CONFORME CLAIM 414559447	FRANCINES		CASSIO	23.02.2017	03
500001273890			FRANCINES		GEVERSON	13.02.2017	
ECM *ECM*	LOC *LOC*	RESUMO MODIFICAÇÃO *SUMMARY OF MODIFICATIONS*	EXECUTADO *EXECUTED*	VERIFICADO *CHECKED*	LIBERADO *RELEASED*	DATA *DATE*	VER *VER*

EXEC. /*EXECUTED*	RUDIK	V.J.PAMENSKY CA (ME 80M/MS)	E1003281	
VERIF. /*CHECKED*			000 | 03	
LIBER. /*RELEASED*	RUDMAR			
DATA LB /*REL DT*	21.09.2008	JARAGUÁ DO SUL ENGENHARIA DE PRODUTO	FOLHA/*SHEET* 01 / 01	

X2045.02.03 MEC

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