

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 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

	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		Page Revision 1 / 2		
Checked by				
Date	26/10/2024			

LOAD PERFORMANCE CURVE

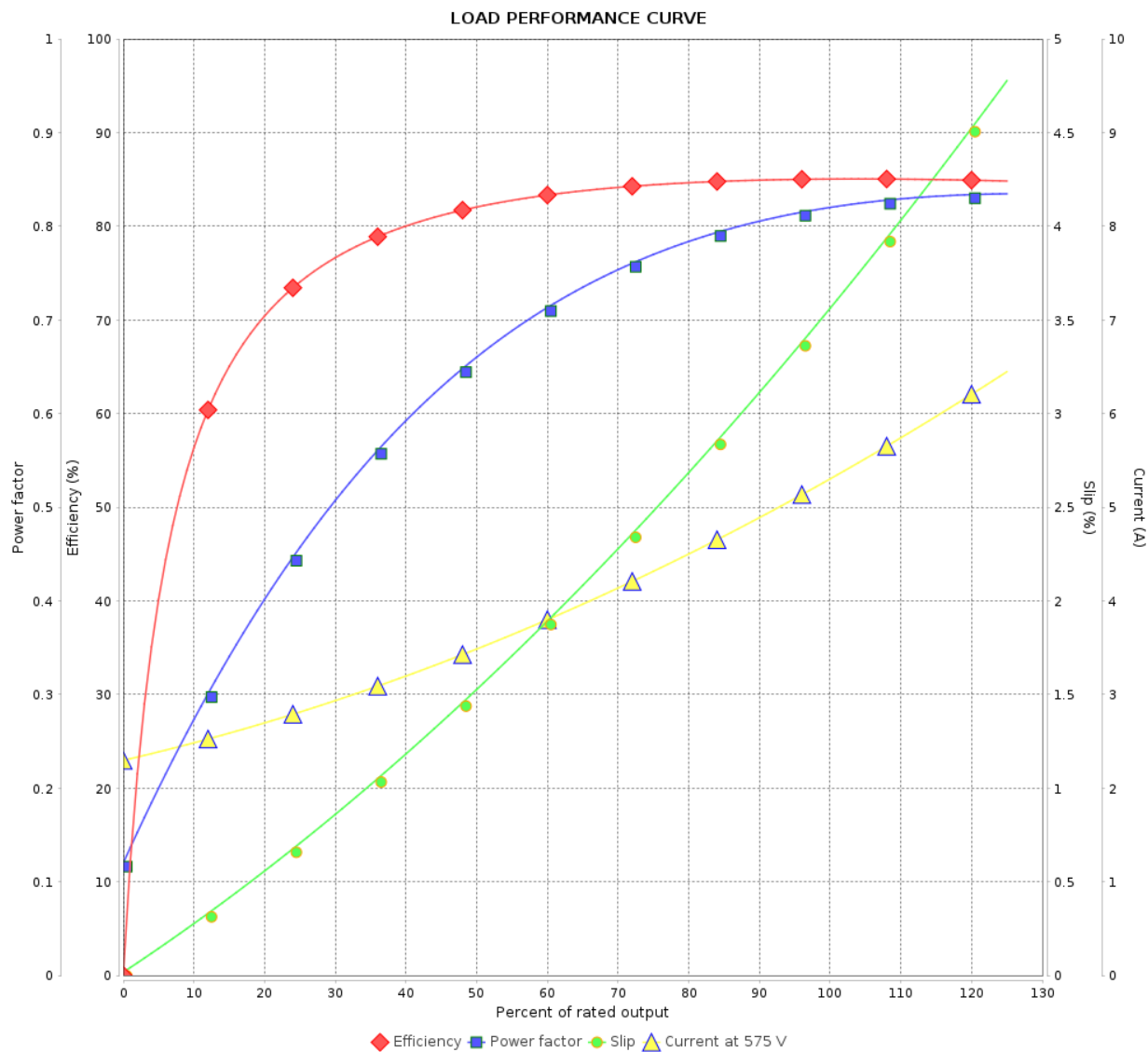
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard
Efficiency Three-Phase

Product code : 10796958



Performance : 575 V 60 Hz 2P

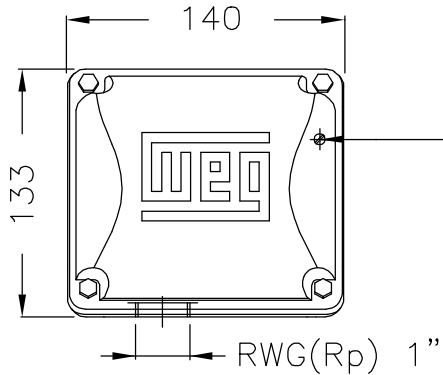
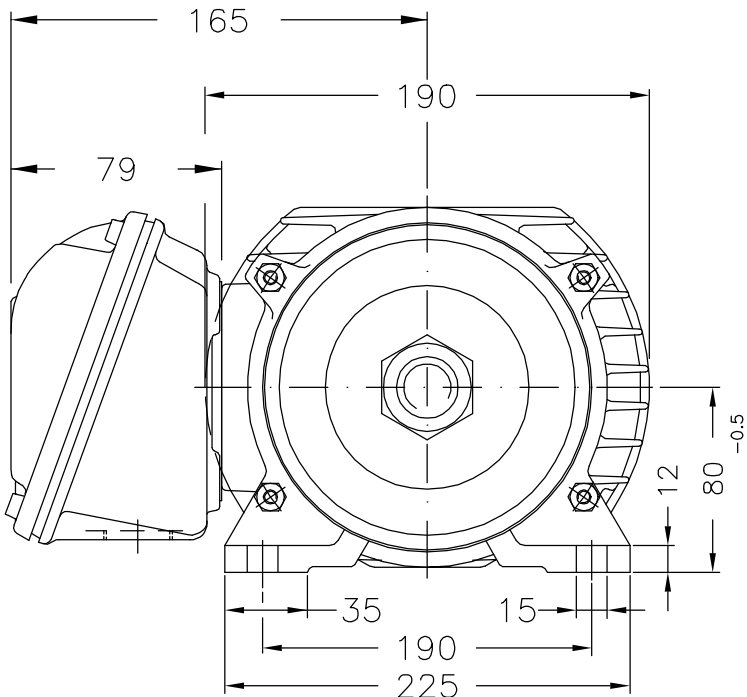
Rated current : 5.32 A
LRC : 8.0
Rated torque : 1.05 kgfm
Locked rotor torque : 340 %
Breakdown torque : 409 %
Rated speed : 3470 rpm

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 2Revision		
Checked by				
Date	26/10/2024			

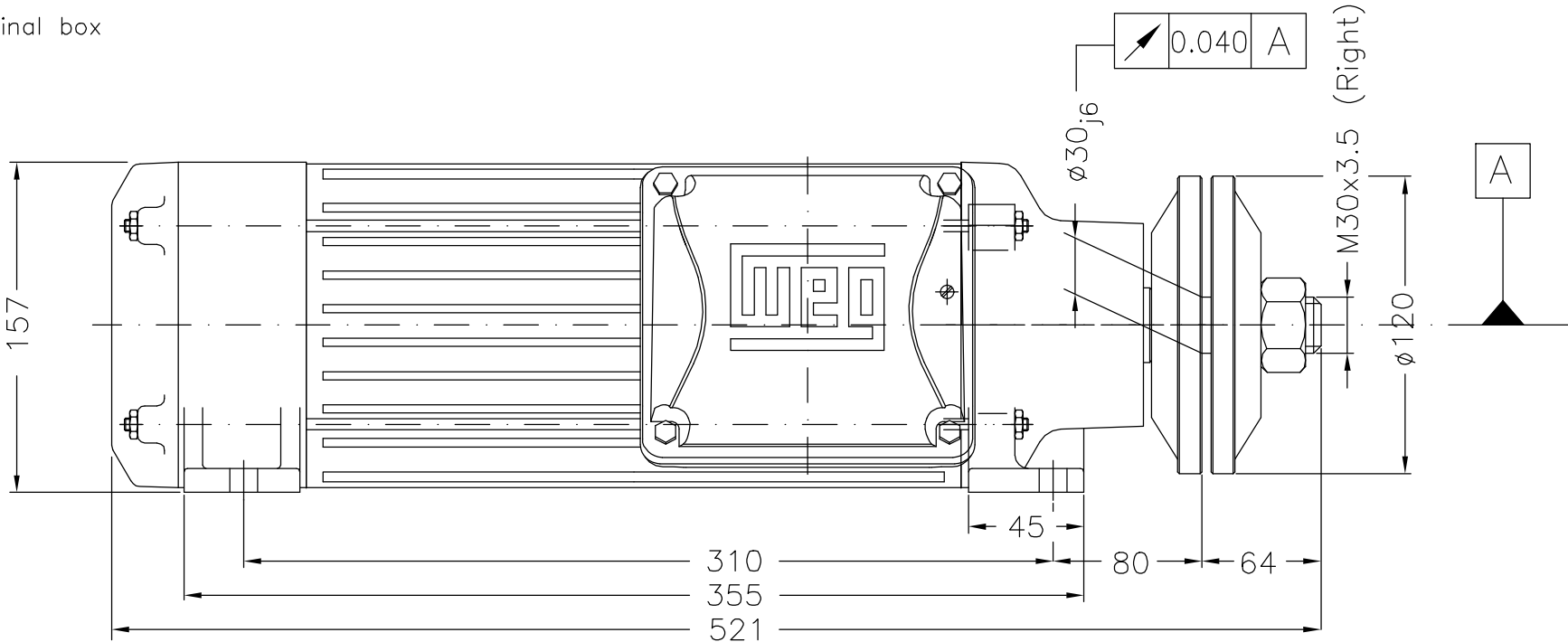
A
B
C
D
E

1	2	3	4	5	6
EIXO/SHAFT		Dimensões em mm Dimensions in mm		THIS IS AN UPDATED REVISION, THE PREVIOUS ONE MUST BE DISREGARDED.	
PADRÃO/STANDARD					
OPCIONAL/OPTIONAL					
ESPECIAL/SPECIAL	x				

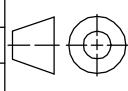


Grounding for leads 2–10 mm² / 14–7 AWG

Main terminal box



X2045.02.03 MEC

Fornecido com 2 arruelas onduladas no mancal traseiro para eliminar 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							
LIBER. /RELEASED	RUDMAR						
DATA LB /REL DT	21.09.2008						
		JARAGUÁ DO SUL	ENGENHARIA DE PRODUTO	FOLHA/SHEET	01 / 01		