

# 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 <sup>1</sup>	: CCW	
Rated speed	: 3470 rpm	Noise level <sup>2</sup>	: 62.0 dB(A)	
Slip	: 3.61 %	Starting method	: Direct On Line	
Rated torque	: 1.05 kgfm	Approx. weight <sup>3</sup>	: 45.0 kg	
Locked rotor torque	: 340 %			
Breakdown torque	: 409 %			
Insulation class	: F			
Service factor	: 1.15			
Moment of inertia (J)	: 0.0041 kgm <sup>2</sup>			
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
		<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
Performed by				
Checked by			Page	Revision
Date	26/10/2024		1 / 2	

# LOAD PERFORMANCE CURVE

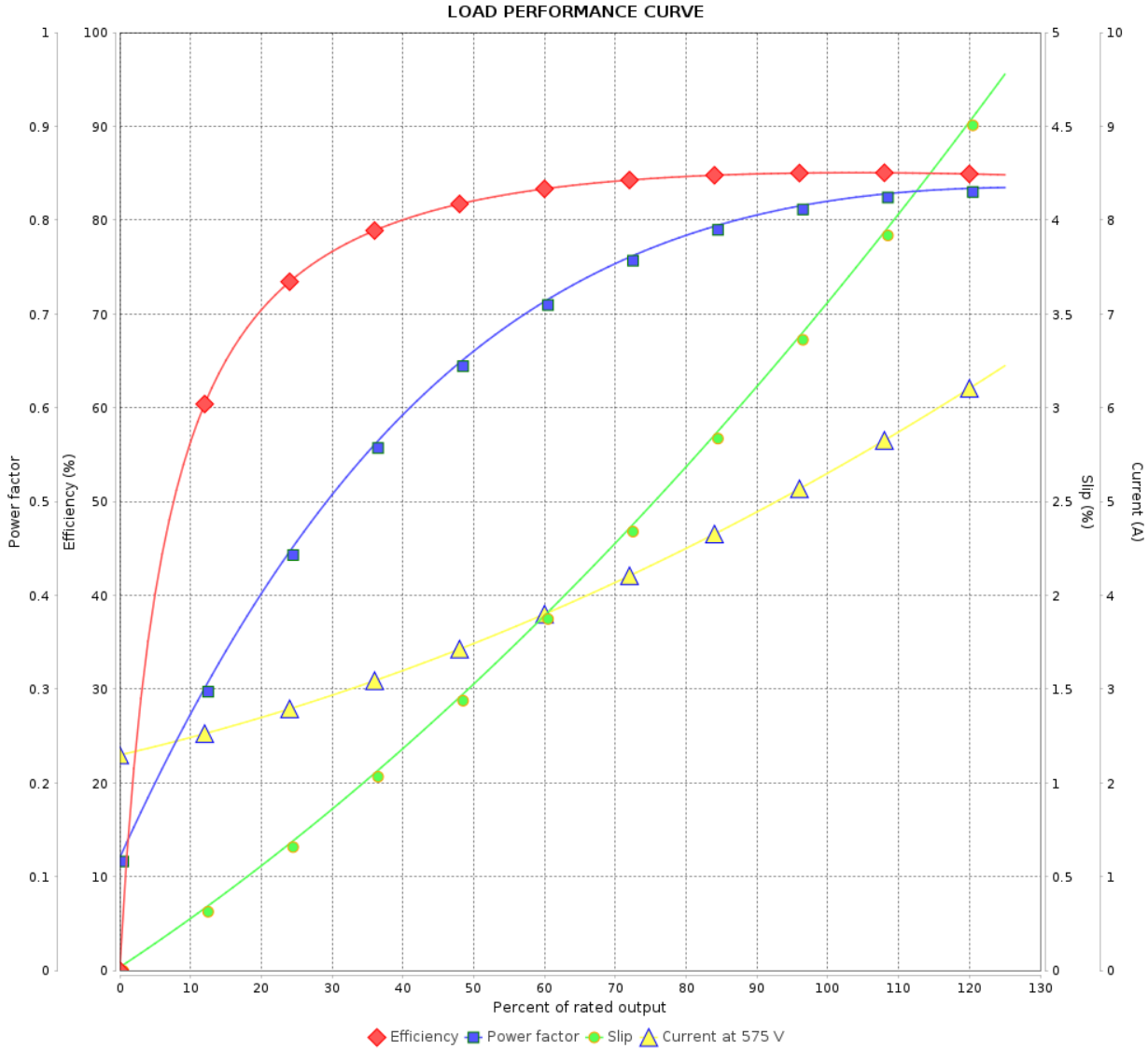
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard  
Efficiency Three-Phase

Product code : 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

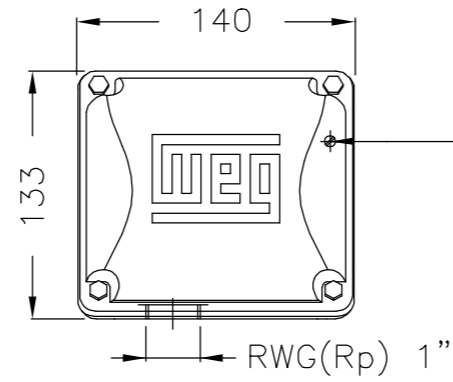
Moment of inertia (J) : 0.0041 kgm<sup>2</sup>  
Duty cycle : S1  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : N

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

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

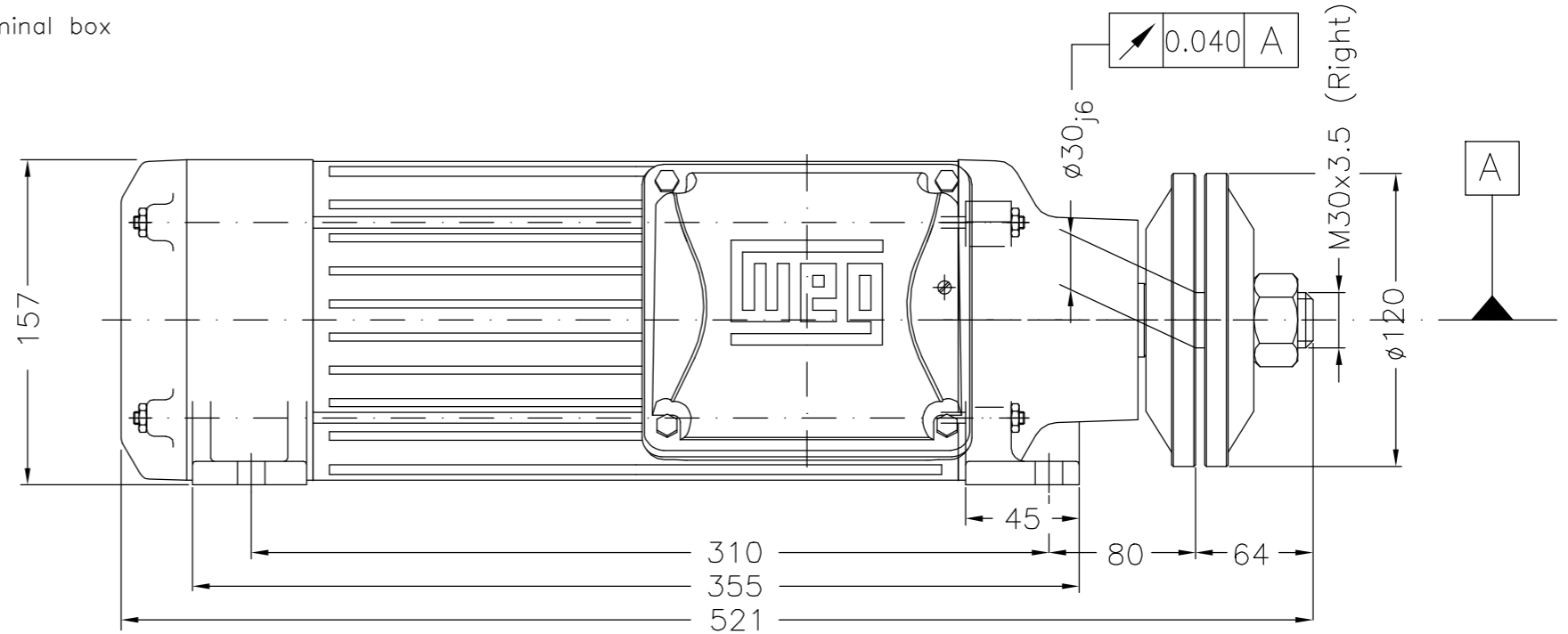
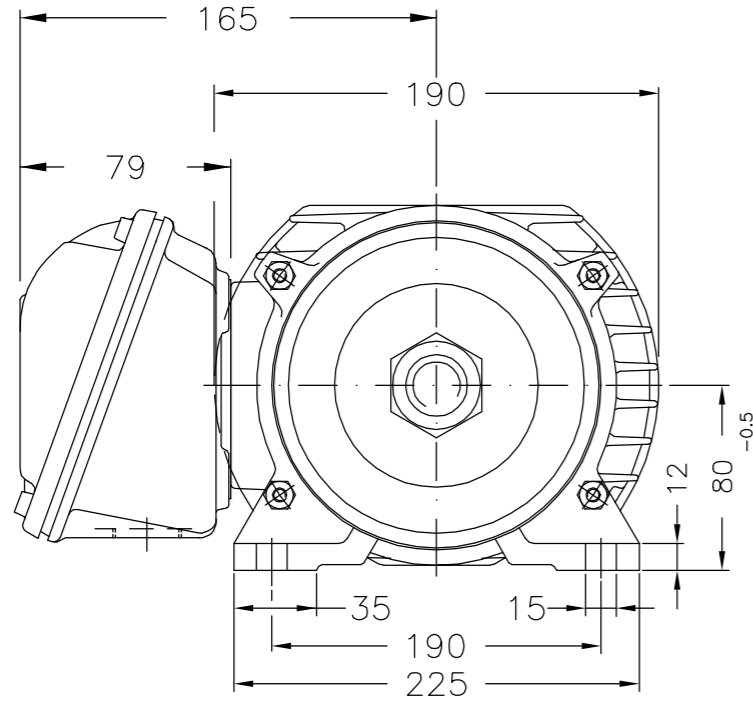
Dimensões em mm  
Dimensions in mm

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



Grounding for leads 2-10 mm<sup>2</sup> / 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
EXEC. /EXECUTED	RUDIK	V.J.PAMENSKY CA (ME 80M/MS)				
VERIF. /CHECKED						
LIBER. /RELEASED	RUDMAR					
DATA LB /REL DT	21.09.2008	JARAGUÁ DO SUL	ENGENHARIA DE PRODUTO	FOLHA/SHEET	01 / 01	

X2045.02.03 MEC

