

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

# LOAD PERFORMANCE CURVE

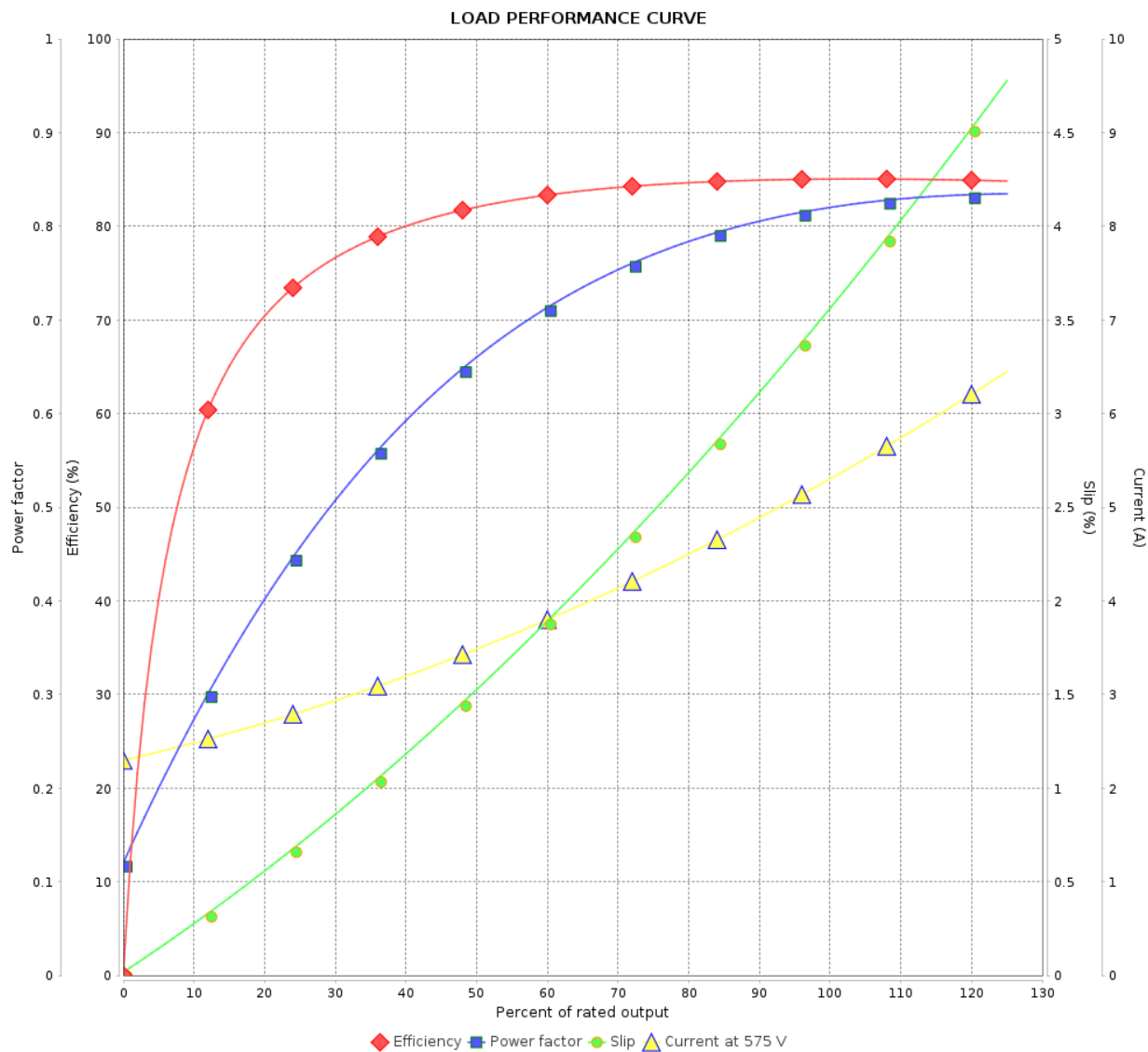
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard  
Efficiency Three-Phase

Product code : 10796958




Performance : 575 V 60 Hz 2P

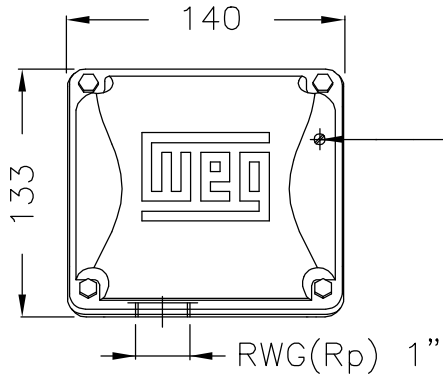
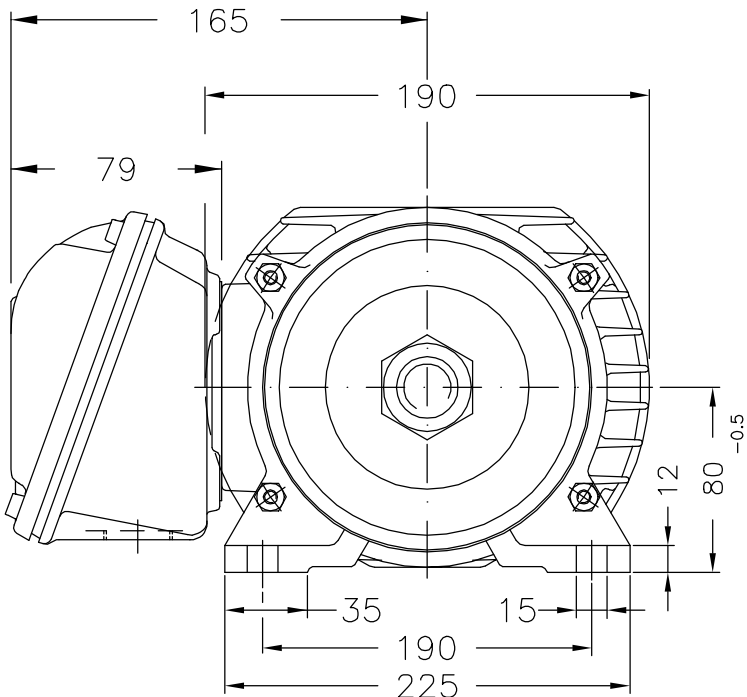
Rated current : 5.32 A  
LRC : 8.0  
Rated torque : 1.05 kgfm  
Locked rotor torque : 340 %  
Breakdown torque : 409 %  
Rated speed : 3470 rpm

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

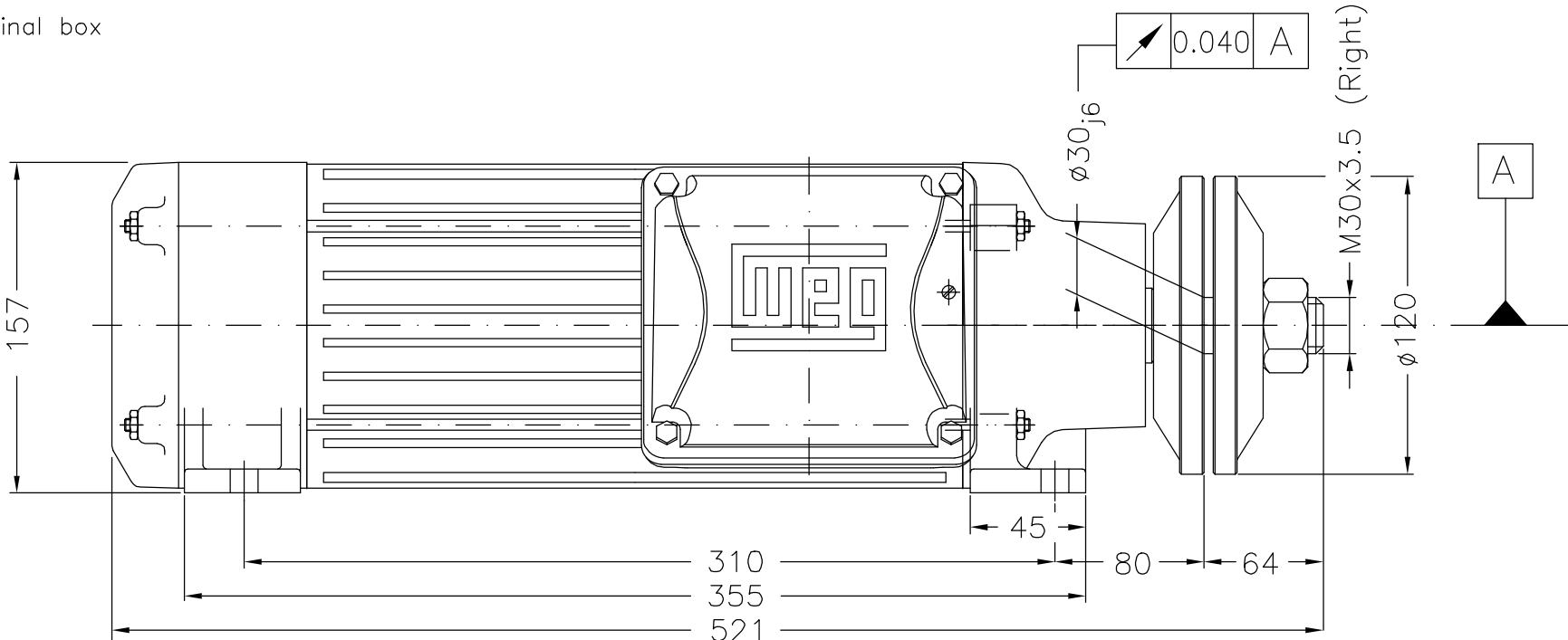
Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 2	Revision
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Date	26/10/2024				

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									



Main terminal box



X2045.02.03 MEC

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
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
					ZME A3		