Industrial Motors

Commercial &
Appliance Motors

Automation

Digital &
Systems

Energy

Transmission &
Distribution

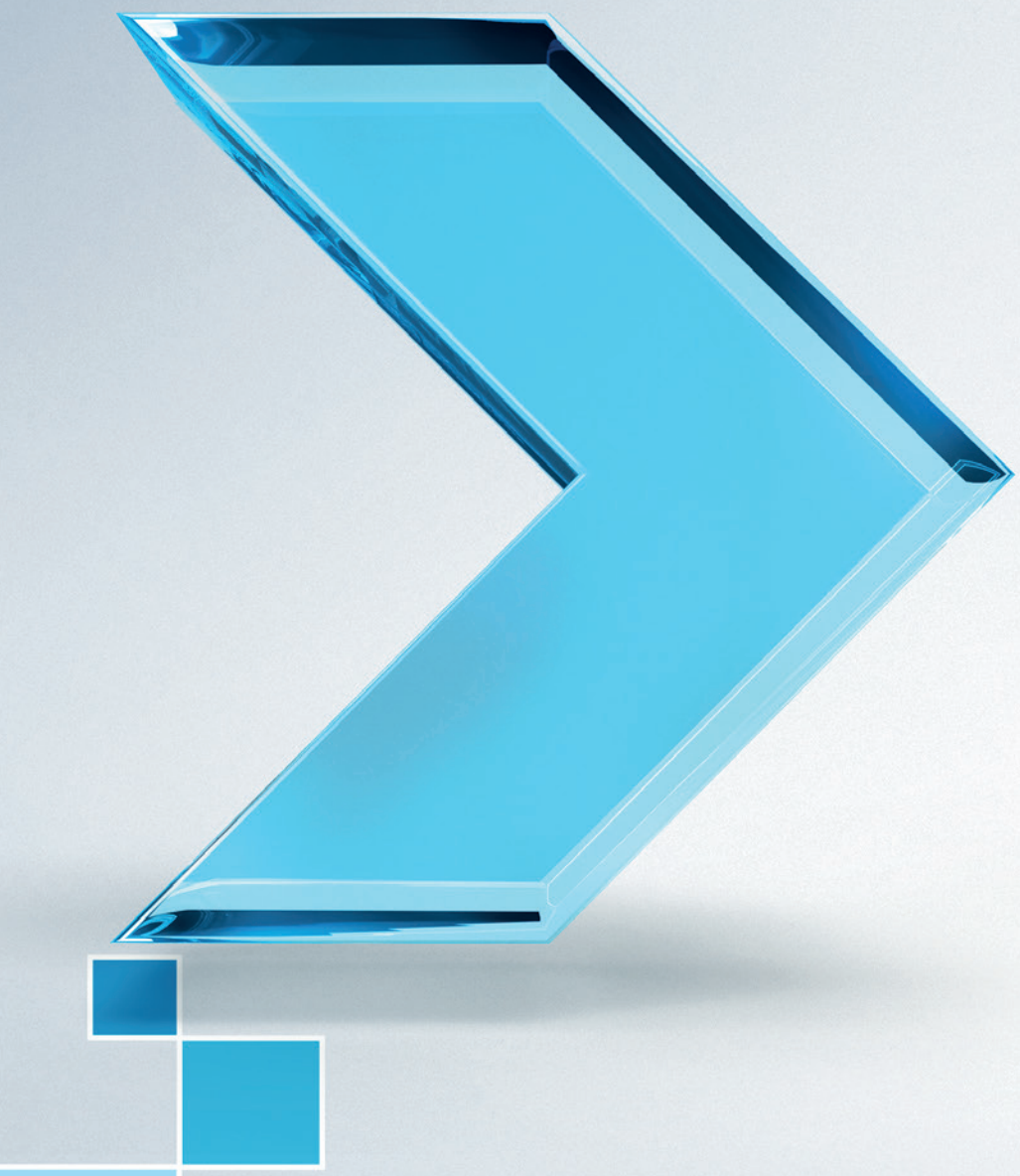
Coatings

W80 AXgen

Axial Flux Motor
NEMA Market



Driving efficiency and sustainability



Motors for

new

W80 AXgen

Axial Flux Technology

The **W80 AXgen** is a motor that enables OEM partners to push forward with their own new ideas. Compact in design, big in possibilities, this solution allows for downsizing, reducing logistical costs and helping to avoid CO_2 emissions across the entire production chain. **A solution designed to create opportunities for today's challenges and those that are yet to come.**

ideas



Driving efficiency and sustainability

Be part of the **new ideas** that will change the **industry tomorrow**

Electrical data

Frame	Speed range [rpm]		Torque [ft.lb]
	Lower	Higher	
250 CHY	1,500	7,500	24
280 CHY	1,500	5,800	91
320 CHY	1,500	5,200	195
360 CHY	1,500	4,700	325
400 CHY	1,500	3,700	503

Note: for speeds outside the indicated range, please contact WEG.

All designs are suitable for operation at:

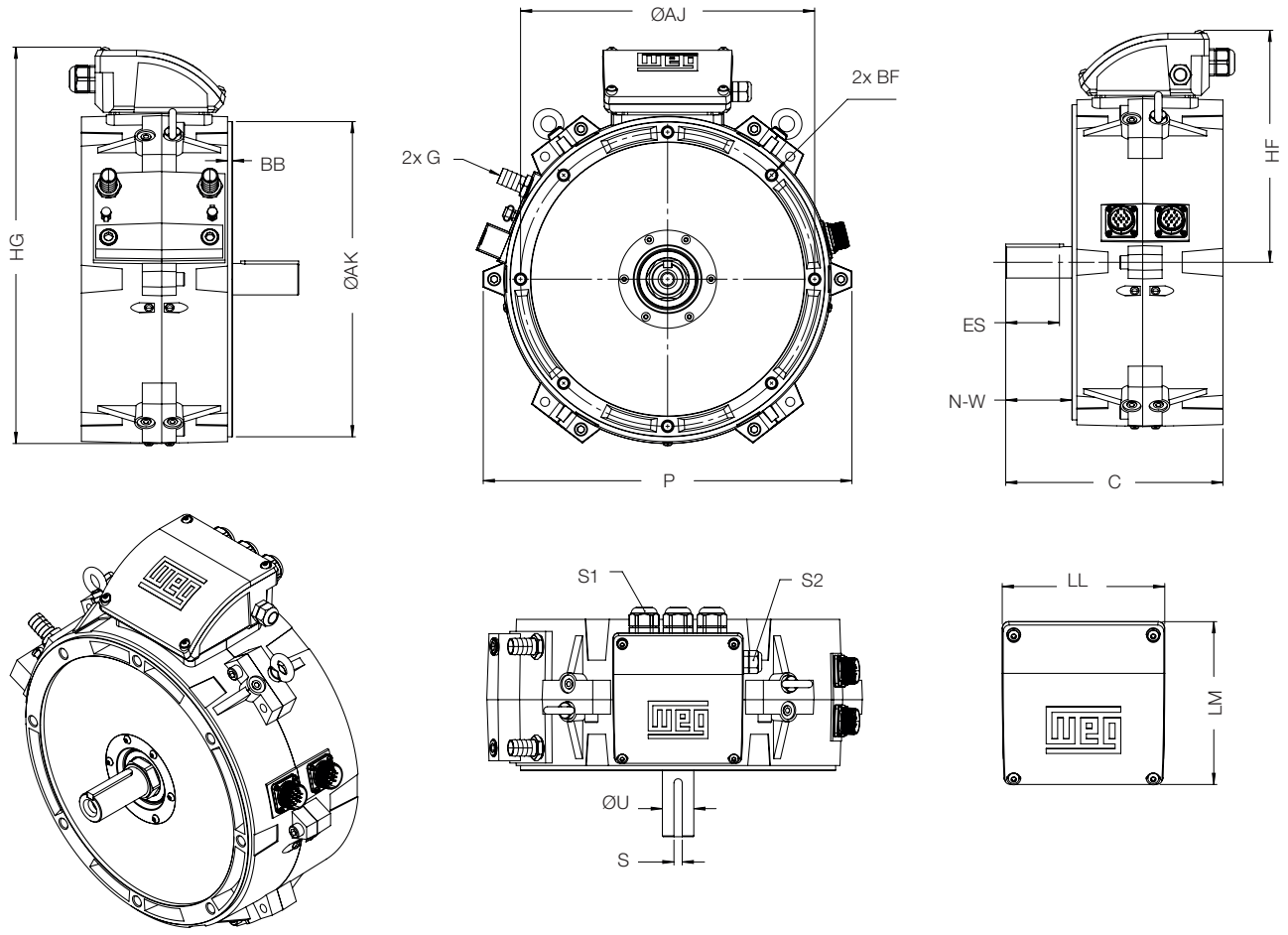
- Constant torque range = 1000:1
- Constant power range = 1.3x nominal speed

IE5 - NEMA SF 1.15							
Frame	Power [HP]	Speed [rpm]	Voltage [V]	Current [A]	Efficiency [%]	Mass [lb]	Inertia [sq.ft.lb]
250 CHY	10	3600	460	12,9	93,3%	55,6	0,2017
280 CHY	50	3600	460	54,3	95,8%	100,5	0,6573
320 CHY	100	3600	460	113	96,5%	152,1	1,0939
360 CHY	150	3600	460	165,1	96,9%	187,9	1,7963
400 CHY	250	3600	460	274,5	97,1%	298,3	4,1764
250 CHY	7,5	1800	460	8,0	93,4%	55,6	0,2017
280 CHY	25	1800	460	27,4	95,3%	100,5	0,6573
320 CHY	75	1800	460	98,2	96,5%	152,1	1,0939
360 CHY	100	1800	460	111,7	96,9%	187,9	1,7963
400 CHY	125	1800	460	128,5	96,9%	298,3	4,1764

Note: 300 HP available on frame 400 with SF 1.00 and water flow of 3.3 gpm.

Mechanical data

Overall dimensions - NEMA [in]																			
Size	External				Flange				Shaft				Cooling	Terminal box				Bearings	
	P	HF	HG	C	AK	AJ	BB	BF	U	N-W	ES	S	G	LL	LM	S1 (NPT)	S2 (NPT)	DE	NDE
250 CHY	11,97	8,07	13,31	7,189	10	9,25	0,2	5/16	0,625	1,875	1,41	0,187	1/2	4,72	4,72	3/8	3/8	7206	7206
280 CHY	14,29	9,13	15,47	9,009	12	11	0,2	3/8	1,125	2,750	1,969	0,25	1/2	4,72	4,72	1/2	3/8	7208	7208
320 CHY	15,79	10,31	17,4	10,698	13,5	12,5	0,2	3/8	1,375	3,375	2,48	0,313	5/8	6,1	6,1	1/4	1/2	7209	7209
360 CHY	17.56	11.05	18.83	10.52	15.00	14.00	0.24	1/2	1.625	3.250	2.480	0.375	3/4	6.10	6.10	3/4	1/2	7210	7210
400 CHY	21.46	13.44	23.02	11.49	18.50	17.00	0.24	5/8	1.875	3.750	2.756	0.500	3/4	7.01	7.01	1	3/4	7212	7212



Cooling system

- Fluid: water (fresh, deionized...) and oil (ISO VG up to 46).
- Flow rate: from 1.32 to 4 gpm
- Inlet pressure: up to 145 psi

The W80 AXgen is recommended for OEMs.



Compact

de

Motors for
new ideas.

W80 AXgen

Axial Flux Technology

Welcome to a compact way of thinking big. The **W80 AXgen** is designed to enable OEM partners to explore new ideas for their products. Developed by WEG, this solution offers ease of application and a high degree of scalability, creating opportunities for today's challenges and those that are yet to come.

sign



Driving efficiency and sustainability

The scope of WEG Group solutions
is not limited to products and solutions
presented in this catalogue.
To see our portfolio, contact us.

For WEG's worldwide
operations visit our website

www.weg.net

+55 47 3276.4000
motores@weg.net
Jaraguá do Sul - SC - Brazil

Cod: 50143348 | Rev: 03 | Date (m/y): 06/2026.
The values shown are subject to change without prior notice.
The information contained is reference values.