

# Xtrafors BR AC Servomotors

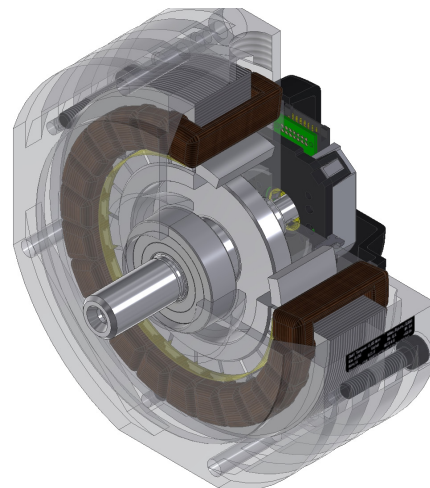


## Features

- Solid and Hollow shaft.
- Reduced weight brushless motors.
- Small volume.
- High torque/weight ratio.
- Pancake size. Low center of gravity.

# XtraforsBR, AC Servomotors

BR series multi-pole brushless motor, originally developed for direct drive use in AGVs, targeting a high torque-to-weight ratio.



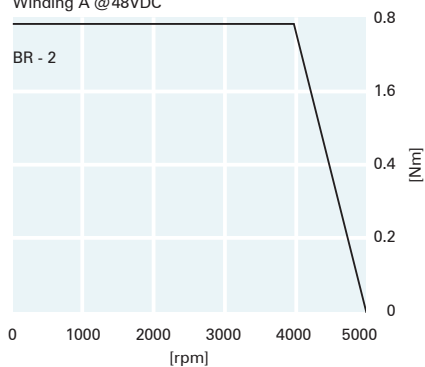
## Technical data

	Stall Torque	Rated speed	Rated current	EMF constant	Winding resistance	Rotor Inertia	Mass
	(Ms)	(M)	( I )	( $K_E$ )	(R)	(J)	M
	(Nm)	(rpm)	(Arms)	(Vs/rad)	( $\Omega$ )	( $\text{kg}\cdot\text{m}^2\cdot 10^{-3}$ )	(kg)
<b>BR- 2</b>	0.8	4000	8.00	0.06	0.71	0.016	0.47
<b>BR- 3</b>	2.6	3100	18.5	0.08	0.21	0.105	1.2
<b>BR- 4</b>	3.85	1500	15.0	0.15	0.25	0.385	2.18

## Torque curves

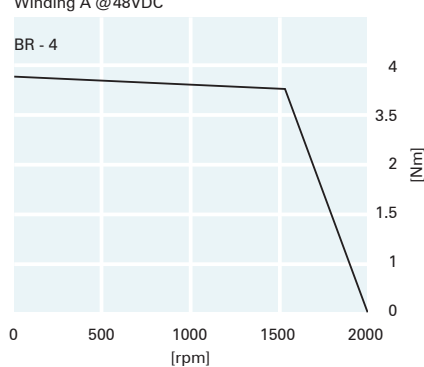
Winding A @48VDC

BR - 2



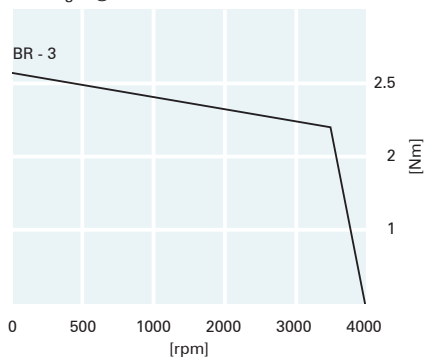
Winding A @48VDC

BR - 4



Winding A @48VDC

BR - 3



## Standard version

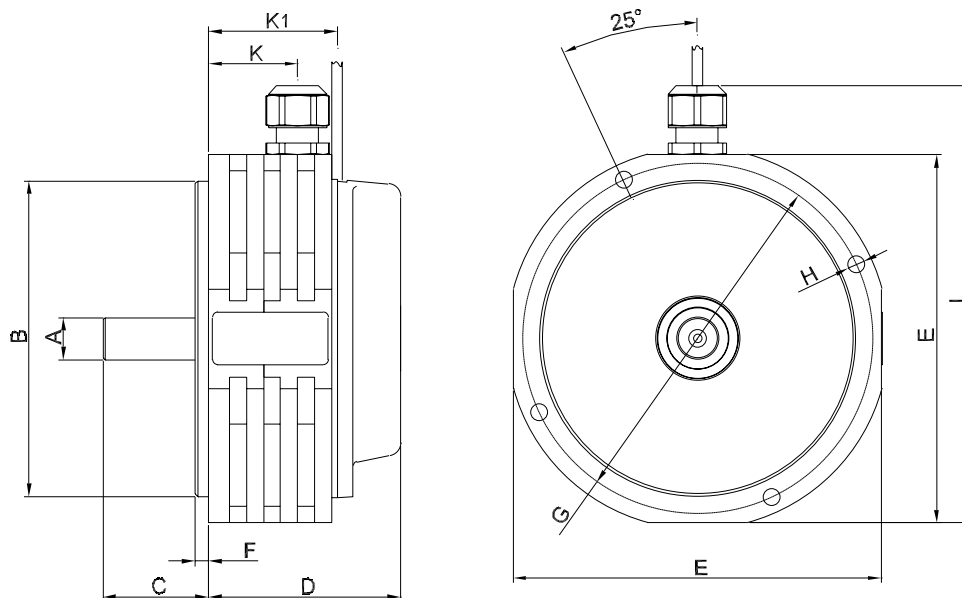
- Incremental encoder with commutation tracks
- 10 pair poles rotor
- Round flange
- Protection IP 54
- Flying leads output cables
- 48/24 VDC winding

## Options

- Programmable encoder resolution 1000, 1024, 2000, 2048, 4000, 4096 ppr
- Brake
- Absolute Encoder

XtraforsBR high efficiency allows high autonomy in Battery powered systems.

### Mechanical dimensions



Dimensions [mm]	BR - 2	BR - 3	BR - 4
A	8 k6	11 k6	16 k6
B	60j6	80 j6	115j6
C	20	23	40
D	36.5	40	53
E Ø	70	100	130
F Ø	2.5	3	3.5
G	66.5	95	127
H Ø	4xM3	4xM4	4xM4
I	83	121	153.5
K	17	27.5	27.5
K1	26	38.1	41

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