

ALA006B SERIES

BRAKES

Brakes for BLDC Motors

Brushless DC motors in the BG range can be fitted with rotor brakes. As standard, power-off brakes are employed, i.e. the brake operates when no voltage is applied and releases when current flows. Power-on brakes are available on request. IP 54 covers are available for all brakes. Combinations of incremental encoders and brakes are possible. Depending on the motor-brake combination, degrees of protection up to IP 65 are possible. To protect the DC contacts in your control system against arcing, we recommend the use of a freewheeling diode.

E 38 R

Spring-applied brake, operates when no current is applied. The special design of this brake makes it suitable for both static and dynamic braking. Axial play in the motor has no influence on brake performance.

E 46 A

This power-on brake is only available on request for batches > 500 pieces.

E 90 R

Spring-applied brake, operates when no current is applied. The special design of this brake makes it suitable for both static and dynamic braking. Axial play in the motor has no influence on brake performance. Manual release of the brake is available as an option (not on versions where a cover is fitted). In combination with motor BG 65, the brake can be incorporated in the extruded motor body.

E 100 A

This power-on brake (permanent-magnet brake) is only available on request.

E 100 R

This power-off brake (permanent-magnet brake) is only available on request.

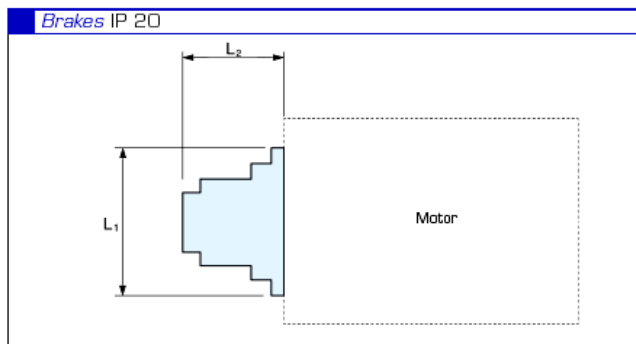


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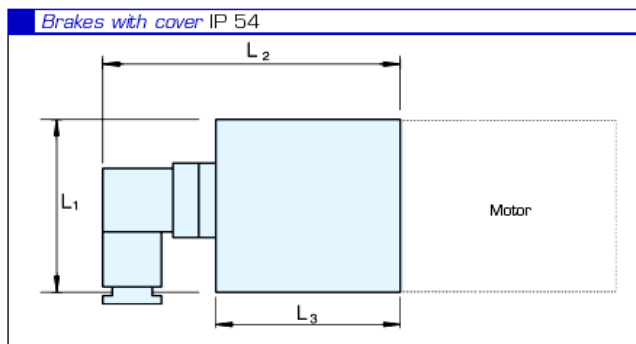
<i>Data</i>		E 38 R	E 46 A	E 90 R	E 100 A	E 100 R
<i>Operating voltage</i>	VDC	24	24	24	24	24
<i>Braking torque</i>	Ncm	20	40	100	150	150
<i>Current consumption</i>	mA	200	260	400	400	450
<i>Power input</i>	W	5	6.3	9.6	11	9
<i>Turn on time</i>	ms	20	7.5	30	15	15
<i>Turn off time</i>	ms	0.5	0.5	1.5	11	11
<i>Protection class</i>	IP	20	20	20	00	00
<i>Insulation class</i>	-	B	B	E	B	B
<i>Weight</i>	kg	0.12	0.1	0.5	0.28	0.28

Standard On request



Length (L in mm)

	E 38	E 46	E 90	E 100
L ₁	38	46	59	76
L ₂	26	25.5	42.3	55

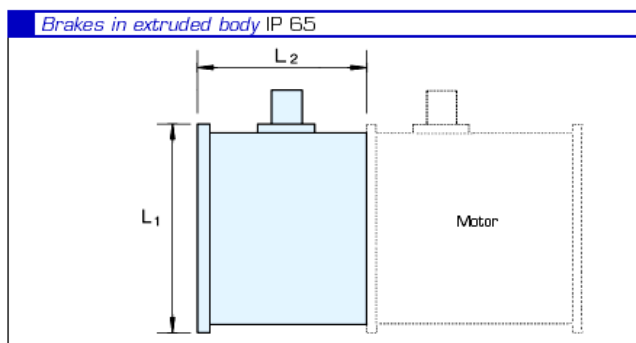


Length (L in mm)

	E 90 + BG 83	E 100 + BG 83
L ₁	80	80
L ₂	119.5	105.5
L ₃	77.5	70.5

Pin

1	n.c.
2	n.c.
3	+
4	-



Length (L in mm)

	E 90 + BG 65
L ₁	65
L ₂	55

Pin

1	+
2	-
3	n.c.
4	n.c.
5	n.c.
6	n.c.