

INTORQ

setting the standard

Economical.
Powerful.
Easy installation.



www.intorq.com/en/revolution

Spring-applied Brake BFK5 18

The world's first spring-applied brake with the torque of a permanent magnet brake.

The INTORQ BFK5 18 – Better than Permanent Magnet Brakes

Easy installation

The brake requires no setting work whatsoever. You benefit in two ways: save time and avoid dealing with the faults that sometimes occur with manual on-site configurations. With the axial position of the rotor often being a critical factor with permanent magnet brakes, you have one less problem with the INTORQ BFK518, as the rotor finds its position automatically.

Flexible mounting position

The INTORQ BFK518 can be mounted either to the fixed bearing or the floating bearing. Temperature expansion and bearing play have no effect whatsoever on the brake's reliability.

Stable price

Unlike permanent magnet brakes, electromagnetic brakes require no rare earths. With the INTORQ BFK518 you are not at the mercy of a volatile marketplace.

Revolutionary production: more performance but minimum installation space

The extremely high braking torque of the BFK518 – considering its size – is the result of the large friction radius of the rotor and the small air gap, which is produced within a narrow tolerance range – this means the friction surface is used 100%.

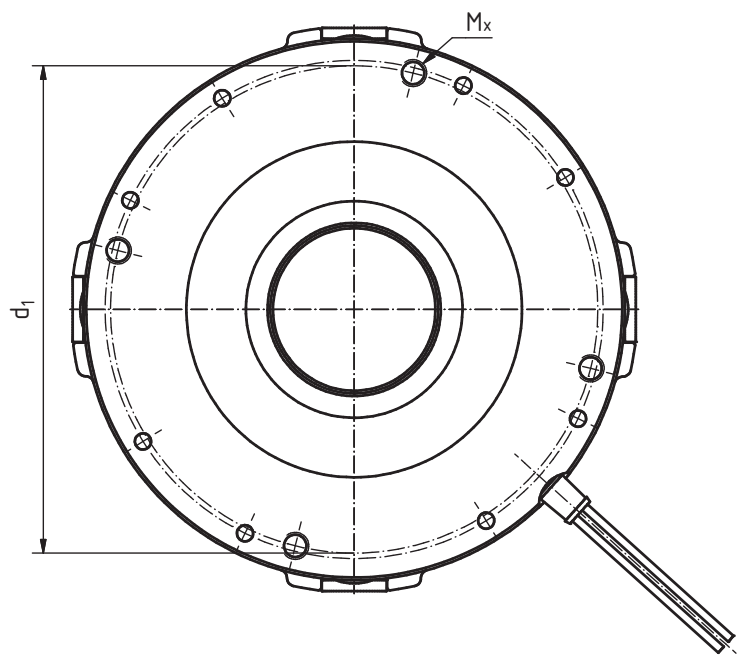
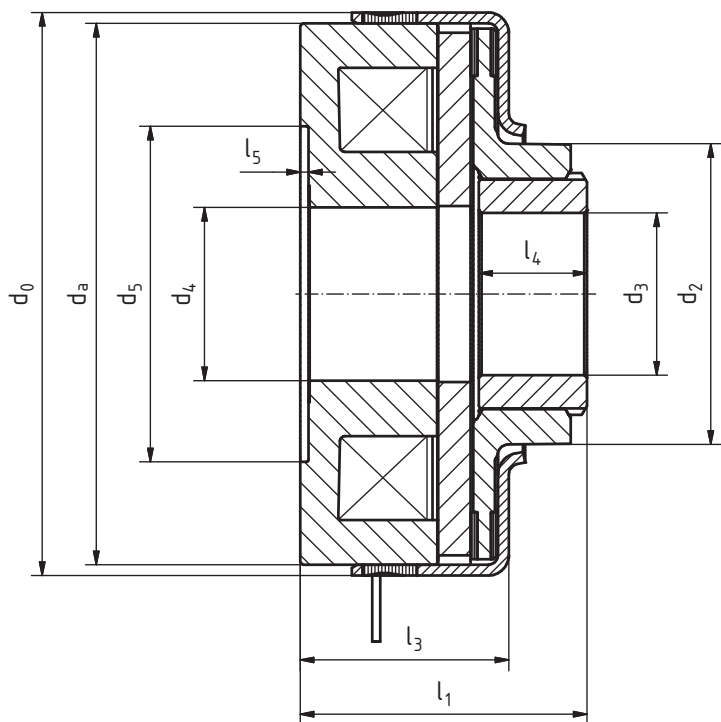
The flange is precisely fixed to the target air gap by means of a thermal joining process. Component variances do not factor in. The process parameters of the thermal jointing process are recorded with sensors and archived with other test data of the brake. The result is reliable product characteristics.

Product characteristics

- Spring-applied brake with optimized performance (higher friction radius, smaller initial air gap)
- Holding brake with emergency stop function
- 5 sizes BG80 and BG100 (available now) as well as BG 70, 90 and 110 (on request)
- Braking torque range from 8 to 33 Nm
- Reliable and stable braking torques even at high environmental temperatures
- Compact construction including rotor and flange
- Ease of installation
- Preset air gap – no inadvertent displacement
- DC voltage 24 V
- Insulation class F (155 °C)
- Protection class IP 00
- Ambient temperature up to 120 °C due to organic, special friction linings
- Various hub diameters
- Quick turnaround for customized solutions
- Excellent availability

Decisive advantages over permanent magnet brakes while maintaining the same braking torque:

- Future-proof, stable pricing of the main components (not impacted by price fluctuations for magnetic materials)
- Quick availability in the basic version
- Easy adaptation of the braking torque
- Quick implementation of individual solutions
- Self-adjusting axial position of the brake rotor
- Highly dynamic due to the small moment of inertia of the brake motor
- Constant performance even with fluctuations in the supply supply



Overview of the most important dimensions (all values in mm)

Size	70	80	90	100	110
M_4 [NM]	8	14	18	25	33
P [W]	21	21	21	22	24
U [V]	24 ± 10%				
$T_{U,max}$ [°C]	120				
d_a	70	80	90	100	110
d_o	74	84	94	104	115
d_4	22	27	30	32	35
d_1	*	72	*	90	*
d_2	*	49	*	55,5	*
d_3	*	25	*	30	*
d_5	*	52	*	62	*
l_1	*	48	*	53	*
l_3	34	36	37	39	42
l_4	*	17	*	20	*
l_5	*	1,5	*	1,5	*
J_{rotor} [kgcm ²]	*	0,46	*	1,15	*
t_1 [ms]	*	45	*	50	*
t_2 [ms]@S _{LN}	*	120	*	165	*

* Detailed dimensions on request

BFK518 CAD data
for download:



intorq.com/en/download/bfk518



Reliable brake solutions with the highest product standards

INTORQ stands for reliable brake solutions with the highest product standards. From crane systems, elevators, wind power facilities, industrial trucks to brake motors: We have the best solution for your drive – customized and safe. The INTORQ modular system with its many possible combinations options has set standards worldwide. We have branches around the globe in Shanghai, Atlanta, and Pune. Our sales network and service provide support around the world.

Challenge us!

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