

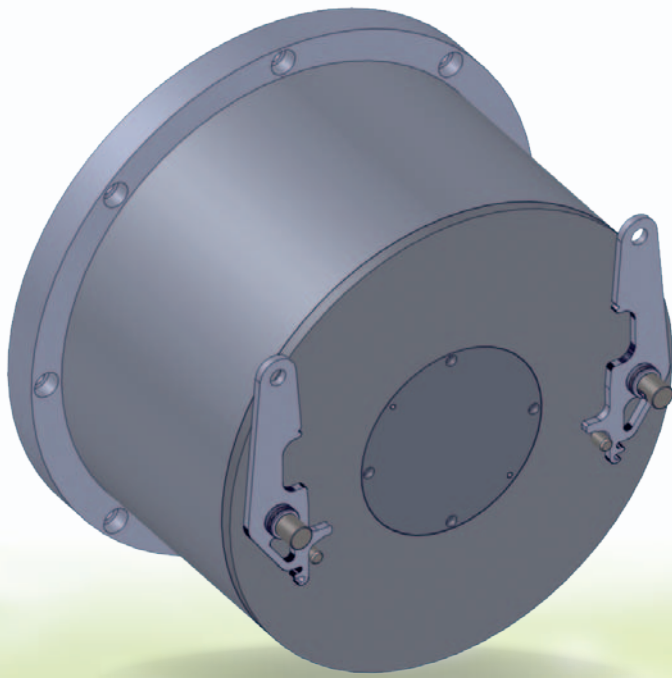


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# Brakes

innovation



Engineering

Idea

model  
KCOVER

Flexibility

Get power  
and safety



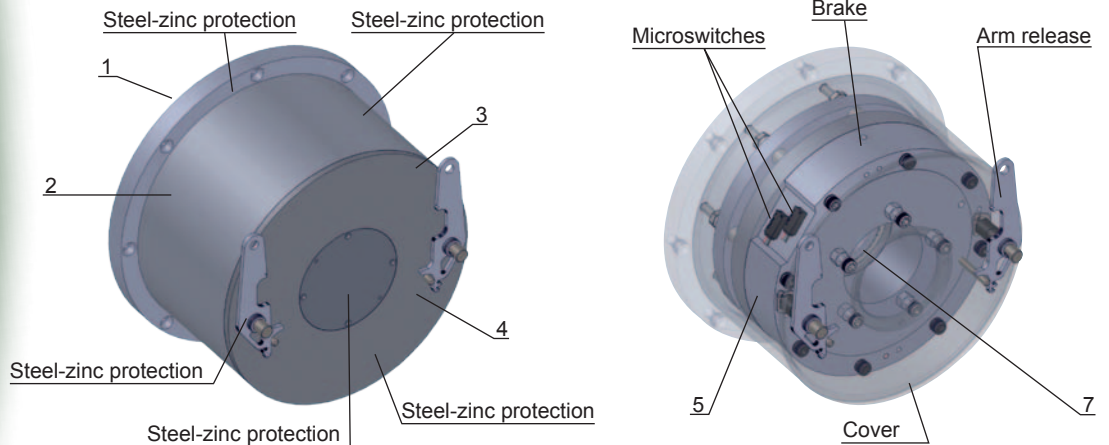
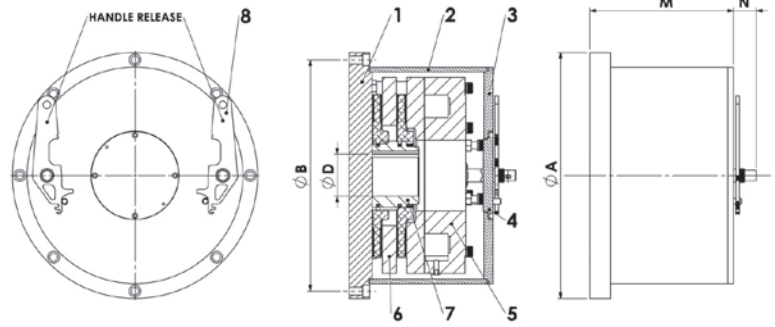
## Main characteristics

The K series electromechanical brake is a direct current spring-set brake. The main characteristics of K series are: ■ Robust structure by steel bar. ■ Minimum noiseless in the engagement and disengagement operation (< 70 dB according to directive 98/37/CEE and higher) (< 45 dB available as option). ■ Ease assembly of brake due the pre assembling of it. ■ Good heat dissipation: thought the motor fan and/or the body magnet, engine cover, brake cover. Mounting flange must be in steel because it also act as breaking surface. ■ The electromagnet coil is completely cemented with epoxy resin, to grant IP66, and the mechanical parts are protects by special electroplating for 96 hours salt fog working. Brake Cover has the same zinc plating or anodic treatment, depending the construction material ■ Handle release available with the special front side construction, to reduce the working space and the apply force. ■ IP66 cover protection ■ Special friction material for not sticking effect and low wear also in case of heavy duty application.



## Overall Dimensioning

- 1 Flange
- 2 Cover
- 3 Tapcover
- 4 Tapincover
- 5 Magnet
- 6 Disk
- 7 Hub
- 8 Hand lever



	KFB63	KFB100	KFB160	SBF100	SBF160	SBF250	SBF400
<b>Brake Model</b>	<b>K9/D</b>	<b>K10</b>	<b>K10/D</b>	<b>K10/D</b>	<b>K11/D</b>	<b>K11/D</b>	<b>K12</b>
D H7	Ø50 Z28	Ø70 Z45				Ø80 Z60	
A	Ø353			410		500	
B	Ø328			385		475	
M	204,5	180	215	250		250	
N	-			38,5			

## Properties

		KFB63	KFB100	KFB160	SBF100	SBF160	SBF250	SBF400
<b>Brake Model</b>		<b>K9/D</b>	<b>K10</b>	<b>K10/D</b>	<b>K10/D</b>	<b>K11/D</b>	<b>K11/D</b>	<b>K12</b>
Braking Torque (Nm)		630	1000	1600	1300	2100	3300	4500
Moment of inertia <sup>(1)</sup> (Kgm <sub>2</sub> )		0,0107	0,009	0,009	0,009	0,0227	0,0227	0,112
Speed Max. (min <sup>-1</sup> )		3000	3000	3000	3000	3000	3000	3000
Voltage <sup>(2)</sup> (VDC)		100	100	100	100	100	100	100
Power (W)		80	120	120	120	220	220	320
Current (A)		0,8	1,2	1,2	1,2	2,2	2,2	3,2
Airgam (mm)	min	0,4	0,4	0,6	0,6	0,6	0,6	0,4
	max	1,2	1,2	1,2	1,2	1,2	1,2	1,2

<sup>(1)</sup> Total moment of inertia of the discs and hub

<sup>(2)</sup> All possibilities for power supply

Data that can be modify from producer any time.

## Cover

For K9-K10-K11-K12 brake the part: Tap cover - Cover - Flange are made in ASTM A105 material. The disk of K9 brake is made in C40 material. The disk of K10-K11-K12 brake is made in AL7075 material.

ASTM A105 parts undergo galvanizing treatment.

Data that can be modify from producer any time.

## Electrical Connection

K-Cover brakes are dc electromagnetic brakes. For this reason the input voltage can be:

- a. Directly from a dc input.
- b. From a three phase input voltage, using a rectifier, like the electrical connection showed below.

