

K-COVER series

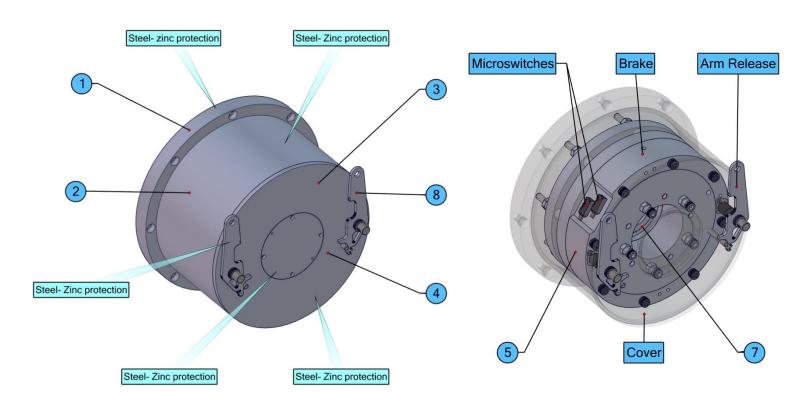
Date: **27-05-2015** Prepared / Updated : Ing. **Germano Olivari**

Page **1/6**

BRAKE SPECIFICATION

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.



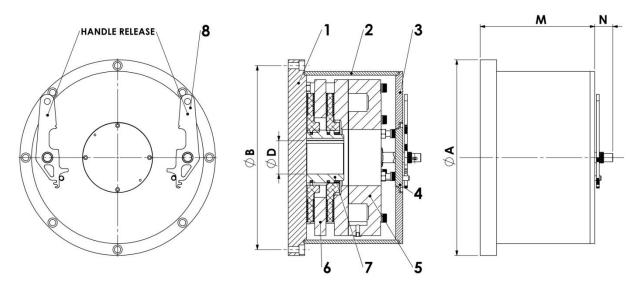


K-COVER series

Prepared / Updated : Ing. Germano Olivari Date: **27-05-2015**

Page **2 / 6**

OVERALL DIMENSIONING



Leggenda 1- Flange 2- Cover

- 3- Tapcover 4- Tapincover 5- Magnet 6- Disk 7- Hub

	KFB63	KFB100	KFB160	SFB100	SFB160	SFB250	SFB400
Temporiti Type	K9/D	K10	K10/D	K10/D	K11/D	K11/D	K12
D H7	Ø50 Z28	Ø70 Z45					Ø80 Z60
А		Ø3	353		4:	500	
В	Ø328			385		475	
М	204,5	180	215		250		250
N	-	38,5					



K-COVER series

Date: 27-05-2015 Prepared / Updated : Ing. Germano Olivari

Page **3 / 6**

Data that can be modify from producer any time.

PROPERTIES

		KFB63	KFB100	KFB160	SFB100	SFB160	SFB250	SFB400
Temporiti Type		K9/D	K10	K10/D	K10/D	K11/D	K11/D	K12
Brake torque (Nm)		630	1000	1600	1300	2100	3300	4500
⁽¹⁾ Moment of inertia (kgm²)		0,0107	0,009	0,009	0,009	0,0227	0,0227	0,112
Speed Max. (min ⁻¹)		3000	3000	3000	3000	3000	3000	3000
⁽²⁾ Voltage (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
Airgap (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

⁽¹⁾ Total moment of inertia of the discs and hub

Data that can be modify from producer any time.

 $[\]ensuremath{^{\text{(2)}}}$ All possibilities for power supply.



K-COVER series

Date: **27-05-2015** Prepared / Updated : Ing. **Germano Olivari** Page **4 / 6**

COVER

For K series covers there are different kind of material in base of the brake.

K9 BRAKE

K9 BRAKE			
PART	MATERIAL		
Tap cover	ASTM A105		
Cover	ASTM A105		
Flange	ASTM A105		
Disk	C40		
K10 BRAKE			
PART	MATERIAL		
Tap cover	ASTM A105		
Cover	ASTM A105		
Flange	ASTM A105		
Disk	AL 7075		
K11 BRAKE			
PART	MATERIAL		
Tap cover	ASTM A105		
Cover	ASTM A105		
Flange	ASTM A105		
Disk	AL 7075		
DADT.	MATERIAL		
PART	MATERIAL ACTIN ALOE		
Tap cover	ASTM A105		
Cover	ASTM A105		
Flange	ASTM A105		
Disk	AL 7075		

K12 BRAKE ASTM A105 parts undergo galvanizing treatment.

Data that can be modify from producer any time.



K-COVER series

Date: 27-05-2015 Prepared / Updated : Ing. Germano Olivari Page 5 / 6

FRICTION MATERIAL

> material: G-95

Friction material

DOC: 020REVISION: 8

> RBLE: I. SANCHEZ > FECHA: 04/10/04

Description

Is the formulation standard of Frenos Sauleda, designed principally for automotive clutch applications (passengers vehicles, etc).

Under normal operating conditions, G-95 will offer a reliable, hard wearing, yet economic material.

The glass fibre reinforcement yard is spiral wound with a fine copper core-producing a strong base with good heat transfer properties.

Applications

- Is suitable for replacement clutch facings-these facings having high resistance to burst and providing smooth engagement.
- · Also for brake blocks for stamped presses.

Adhesives

The use of any well known thermosetting adhesive is recommended.

Rubbing surfaces

Good quality, fine grained pearlitic cast iron with BHN of 150-200 is recommended.

Physical properties

-80
5%
44%

Mechanical properties

· Burst resistance

(200X137X 3,5)@200°C

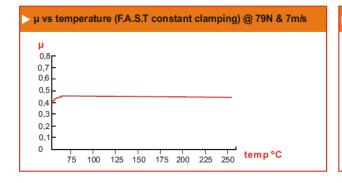
> 10.500 rpm

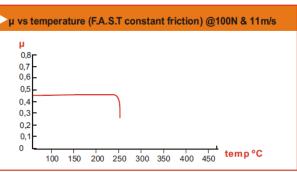
Friction properties

 Friction coefficient (dynamic) (Seegraph) 	0.45±0.05
•Wear rate (@ 79N, 7m/s, 300°C) F.A.S.T	50 - 80mm³
Recommended operating temperature	es (max):

Continuous operation 250 °C

Continuous operation 250 °C Initial Fading temperature 253 °C







K-COVER series

Date: 27-05-2015 Prepared / Updated : Ing. Germano Olivari

Page **6 / 6**

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.

