

Электромеханические пружинные тормоза серии К

Инструкция по сборке

По вопросам продаж и поддержки обращайтесь:

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1- Symbols

Symbol	Meaning	Description
	DANGER!	Danger of personal damage caused by a general source of danger It refers to an imminent danger that could give place to serious personal damage or death if the correspondent measures of protection are not respected.
	RISK OF ELECTROCUTION!	Danger of personal damage caused by high electrical voltage It refers to an imminent danger that could give place to serious personal damage or death if the correspondent measures of protection are not respected.
	STOP!	Danger of property damage It refers to an imminent danger the could give place to property damage, if the correspondent measures of protection are not respected.
	NOTE!	Important note to ensure troublefree operation
	TIP!	Useful tip for simple handling

2- General Alerts

	FEEDING VOLTAGE	The brake feeding voltage may vary of a $\pm 6\%$ in observance to the nominal tension signed on the label. The electromagnet requires a tension near the nominal value: an insufficient tension may cause a general bad working of the brake.
	ROOM TEMPERATURE	The room temperature for the brake correct working is between 5°C and 40°C. Contact technical office for different or further requirements

3- Toolbox

To follow this manual you need the following tools:



Wrench set

Allen key set

Dynamometric key

Thickness gauge set

Caliper gauge

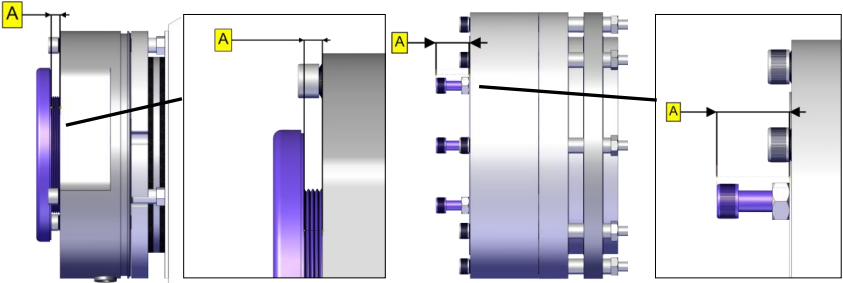
	USE STANDARD KEYS	Use only standard keys, without the use of extensions to obtain a correct one tightening of bolts and nuts.
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4- Static torque values

	K01	K02	K03	K04	K05	K06	K07 (K07 / D)	K08 (K08 / D)	K09 (K09 / D)	K10 (K10 / D)	K11 (K11 / D)	K12 (K12 / D)
Nominal static torque [Nm]	4.5	10	16	20	40	60	90 (180)	200 (400)	300 (600)	500÷800 (1000÷ 1500)	1000÷1500 (2000÷ 2800)	2250 (4500)
	RUNNING IN THE BRAKE		The static braking torque value of the brake without running in can reach up to -20% of the plate value and up to -35% with the special antisticking friction material. Always run in the brake before use.									

4.1- Braking torque adjustment

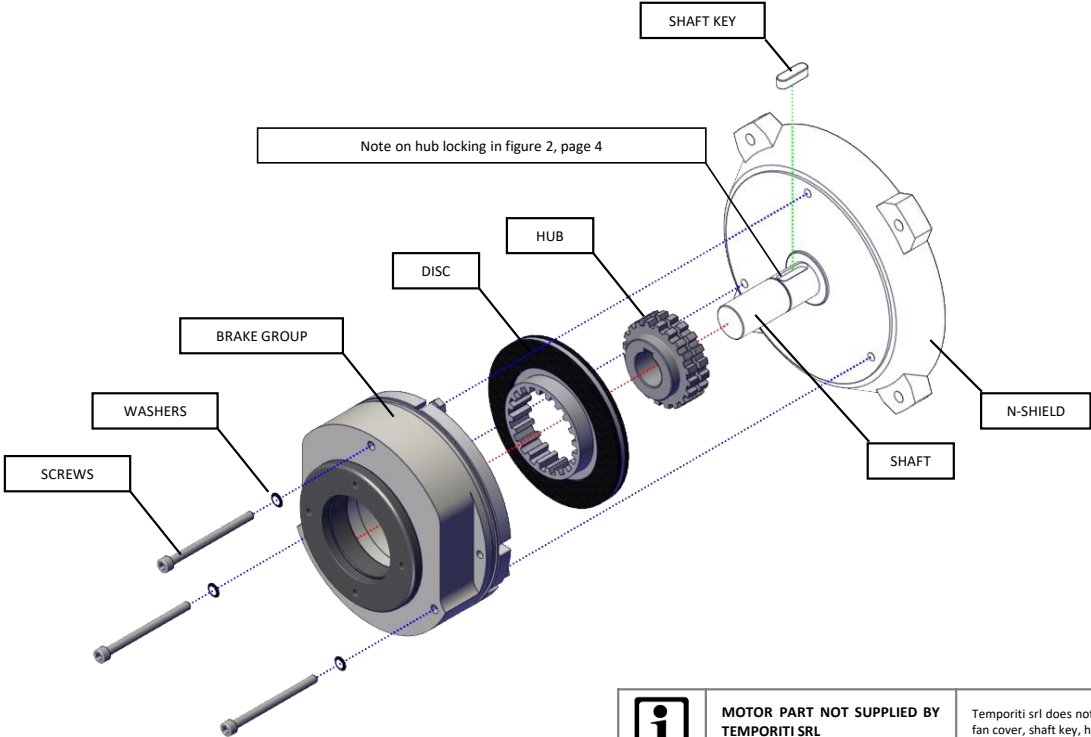
K01		K02		K03		K04		K05		K06		K07 (K07/D)		K08 (K08/D)		K09 (K09/D)		K10 (K10/D)		K11 (K11/D)		K12 (K12/D)	
A [mm]	Nm	A [mm]	Nm	A [mm]	Nm	A [mm]	Nm	A [mm]	Nm	A [mm]	Nm	A [mm]	Nm	A [mm]	Nm	A [mm]	Nm	A [mm]	Nm	A [mm]	Nm	A [mm]	Nm
1.5	5	2.2	12	2.2	16	2.1	20	3.2	40	2.8	60	2.2	90 (180)	2.3	200 (400)	1	300 (600)	F I X E D	800 (1500)	22.4	1500 (2800)	F I X E D	2250 (4500)
2.0	3.75	2.9	9	2.9	12	2.5	15	4.2	30	3.5	45	2.7	67 (134)	2.8	150 (300)	2,5	225 (450)			23.4	1470 (2744)		
2.5	2.5	3.6	6	3.6	8	3.0	10	5.2	20	4.2	30	3.2	45 (90)	3.2	100 (200)	4,5	150 (300)			25.4	1410 (2632)		



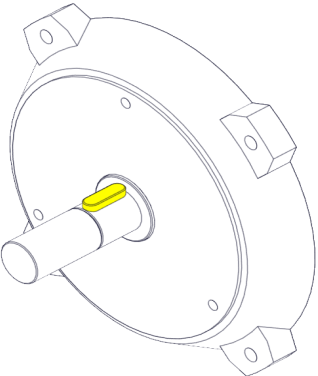
	NEVER REMOVE AND NEVER COMPLETELY UNSCREW THE TORQUE SCREWS	Never remove the torque screw: in this case the brake will be able to ensure about the 30% of couple static values
	ADJUSTING THE BRAKING TORQUE LESS THAN 50% OF THE MAXIMUM TORQUE VALUE	Adjustment of the torque braking lower than 50% of maximum torque value is not guaranteed or provided from Tempporti srl. For more information, contact the Tempporti technical office.
	VALUES AFTER RUNNING-IN	The values in graphic are concerning to the brake runned in
	APPROXIMATE VALUES	The values in table are approximate. The real torque values must be always verified by measurement

5- Installation and regulation

	KEEP METICULOUSLY THE INSTRUCTION ON THIS MANUAL	Adjusting operations carried out without following the operations of this manual, lead to a bad brake working.
	DISCONNECT THE BRAKE FROM POWER SUPPLY	Carry out the inspection, servicing and adjusting operations only after the brake electrical disconnection.
	SURFACES CLEANING	Good plane and braking surfaces cleaning, by using de-greasers that do not leave oily wasters, is necessary for good brake performance

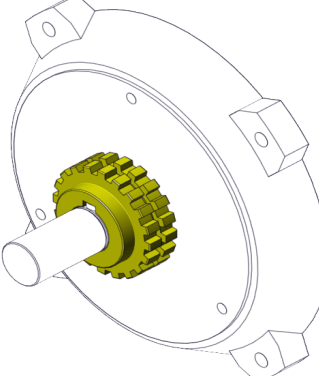


	MOTOR PART NOT SUPPLIED BY TEMPORITI SRL	Temporiti srl does not supply motor parts as n-shield, shaft, fan cover, shaft key, hub seeger and sealing ring
	INDICATIVE ILLUSTRATION	All illustrations are for illustration only and may not accurately depict the actual brakes



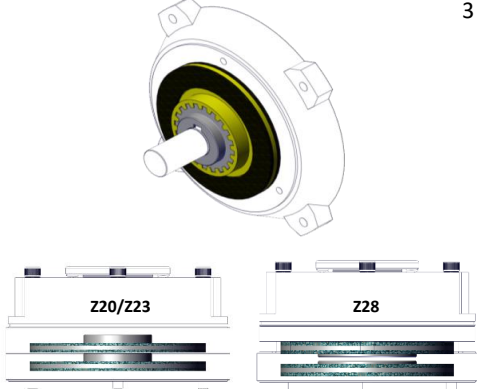


With hub Z34 H20 F24- Z34 H20 F25, make sure to use lowered key.



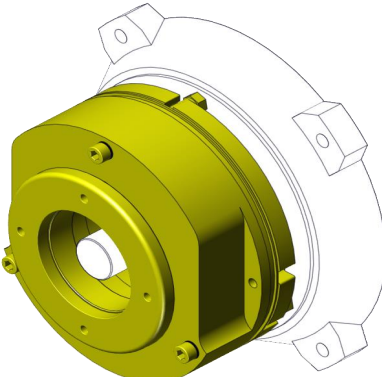


The hub locking on the shaft (not at charge of Temporiti Srl) has to be guaranteed during the assembling using, as example, seeger rings, hot coupling ecc...



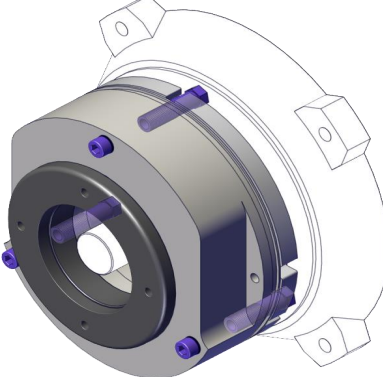


Make sure to assemble the K08D discs according to the above reported schema.



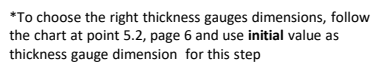
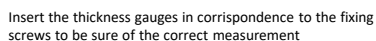


Fix the brake on the motor without locking the fixing screws

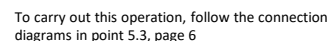
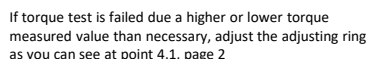
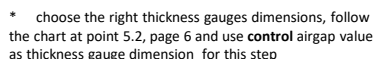




Adjust the screws to have the space to insert thickness gauge between body magnet and armature plate



**CONNECT THE BRAKE TO
POWER SUPPLY AT MOTOR
CONNECTION BOX AND
TEST BRAKE FUNCTIONING**



5.1- Tightening values

TABLE OF TIGHTENING TORQUE

TABLE OF TIGHTENING TORQUE												
	K01	K02	K03	K04	K05	K06	K07 K07/D	K08 K08/D	K09 K09/D	K10 K10/D	K11 K11/D	K12 K12/D
Tightening torque [Nm]	3	6	6	10	10	23	23	46	46	46	73	122

5.2- Airgap values

AIRGAP TABLE [mm]

AIRGAP TABLE [mm]															
K01		K02		K03		K04		K05		K06		K07 (K07/D)		K08 (K08/D)	
CONTROL		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL	
0,20 GO - 0,30 NO GO		0,20 GO - 0,30 NO GO		0,20 GO - 0,30 NO GO		0,20 GO - 0,30 NO GO		0,20 GO - 0,30 NO GO		0,20 GO - 0,30 NO GO		0,20 GO - 0,30 NO GO (0,50 GO - 0,60 NO GO)		0,20 GO - 0,30 NO GO (0,50 GO - 0,60 NO GO)	
INITIAL	MAX	INITIAL	MAX	INITIAL	MAX	INITIAL	MAX	INITIAL	MAX	INITIAL	MAX	INITIAL	MAX	INITIAL	MAX
0.20	0.50	0.20	0.50	0.20	0.50	0.20	0.70	0.20	0.70	0.20	0.70	0.20 (0.50)	0.70 (0.90)	0.20 (0.50)	0.7 (0.90)



Max airgap value is the airgap value for which, once reached, it is compulsory restore to starting airgap value



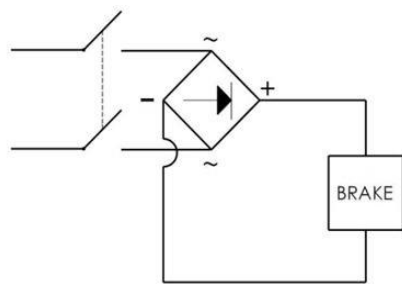
In case of brake equipped with microswitch, minimum air gap:
Single disc: 0.4mm
Double disc: 0.5mm



For a correct airgap measuring, the thickness gauge has to be positioned in correspondence of the magnet surface and not on the resin

5.3- Electrical connection

Connect the brake to the motor according to the following connection diagram



6- Servicing

A frequent brake inspection is necessary for all parts as the wear depends on a series of factors and mainly on the load inertia, the shaft speed and the operation frequency. Verify the main parts of the brake group and, in case, replace them with original spare parts supplied by Temporit SRL. The principal values that has to be checked are the airgap and the disc thickness. The brake airgap value has to be lower than max airgap value stated at point 5.2 , page 6. The disc thickness value has to be higher than the value stated at point 6.1, page 7.

Servicing may be roughly determined according to what is pointed out on the site.

6.1- Disc replacement

The disc must be replaced after a consumption of 1,5mm per friction material ring, that is when the minimum total thickness value is reached.

Disc replacement thickness limit - B [mm]												
BRAKE SIZE	K01	K02	K03	K04	K05	K06	K07 K07/D	K08 K08/D	K09 K09/D	K10 K10/D	K11 K11/D	K12 K12/D
THICKNESS	4.80	5.50	5.50	5.50	6.30	6.30	7.50	8.10	8.3	8.5	14.7	25

7-Information on disposal and recycling



Recycle in eco-friendly way the packaging, metals and all the parts of no longer working brakes..

DO NOT THROW USED ELECTRIC BRAKES OR PARTS OF THEIR IN THE HOUSEHOLD WASTE!

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