

Temperature Control Circuit-Breakers 2KBF, 3KBF 2KB, 3KB

Snap-action disc thermostats: Limiters with trip-release 2KBF, 3KBF
Limiters without trip-release 2KB, 3KB (without button)

Description

The extremely compact 2KBF and 3KBF thermostats with snap-action disc permit electrical loads of up to 16 A and are very versatile. Working as trip-switches they are fitted with a mechanical reset. Resetting while overtemperature conditions prevail is inhibited by the trip-release mechanism thus providing double safety features.

The 2KBF and 3KBF thermostats can be installed in the most restricted spaces wherever protection against overheating is needed. The 2KBF and 3KBF thermostats may be used in:

- cable reels

Mode of function

The 2KBF and 3KBF thermostats (limiters with trip-switch) react to a set temperature which triggers the snap-action of a bimetallic disc. This spring movement of the bimetallic disc is mechanically transmitted by a transmission pin to a bridge-contact thus opening the circuit.

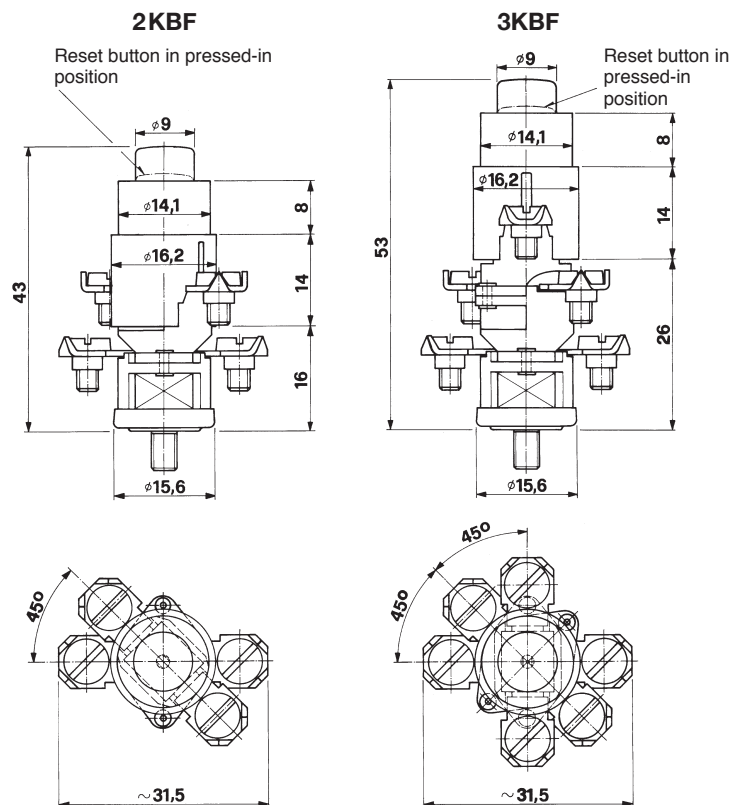
Resetting is achieved by manually depressing the reset button.



Approvals: VDE etc.

General dimensions:

For detailed dimensions & ordering key see reverse side



Technical specifications:

Switching performance:	16 (4) A 400 V ac 2000 cycles
Maximum speed of temperature change:	10 °K/min
Contact material:	Fine silver
Maximum temperature:	to 80°, 2KBF/3KBF 80° – 140°, 2KB/3KB
Electrical strength:	> 3750 V~
Cut out:	Not affected by current
2KBF/2KB:	2-pole breaker
3KBF/3KB:	3-pole breaker



KIENZLER AG

UNT. BAHNHOFSTR. 27
CH-8340 HINWIL
SWITZERLAND
Tel. 0041 (0)44 937 10 30
Fax 0041 (0)44 937 24 04

E-Mail: kienzlerinfo@kienzler.ch web: www.kienzler.ch

Detailed dimensions

Reset button variants:

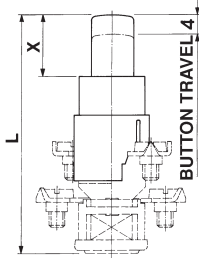


Fig. 1 2KBF

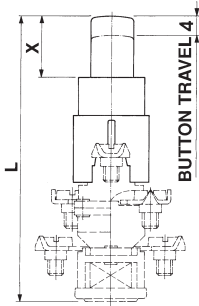


Fig. 1 3KBF

Connection variants:

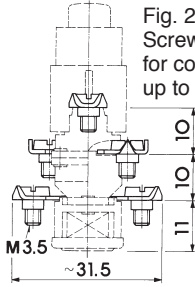


Fig. 2
Screw lugs downwards
for conductors
up to 2.5 mm²

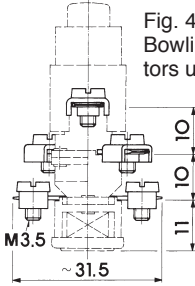


Fig. 4
Bowlings for conductors
up to 2.5 mm²

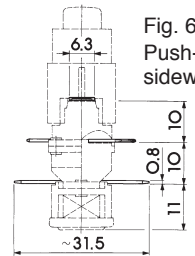


Fig. 6
Push-on tabs 6.3 mm
sideways

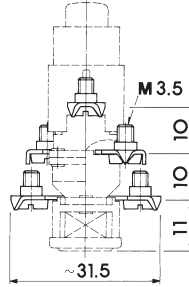


Fig. 3
Screw lugs
upwards for
conductors
up to 2.5 mm²

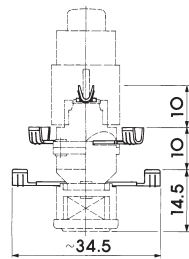


Fig. 5
Crimp lugs
for conductors
up to 1.5 mm²

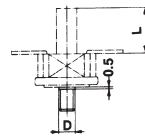


Fig. 8
Extended reset
cap for limiter

D	L
Ø4	11
Ø4	6
Ø4	4

Mounting variants:

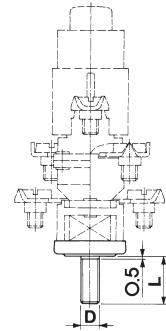
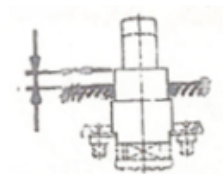


Fig. 7
Screw mounting

D	L
M4	6
M5	6
M4	10
M4	15



Installation guideline
excess length
max. 4.8 mm

Ordering key:

	2KBF	3KBF
Fig. 1 Short button	L = 43 mm	53 mm
Fig. 1 Medium button	L = 47 mm	57 mm
Fig. 1 Long button	L = 51 mm	61 mm

	2KB	3KB
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Fig. 2 Screw lugs downwards	2.5 mm ²	1
Fig. 3 Screw lugs upwards	2.5 mm ²	2
Fig. 4 Bowlings	2.5 mm ²	3
Fig. 5 Crimp lugs	1.5 mm ²	4
Fig. 6 Push-on tabs	6.3 mm sideways	5
Flat cover without flange		0
Fig. 7 Screw mount.: Cover with threaded bolt	M4 x 6 mm	4
Fig. 7 Screw mount.: Cover with threaded bolt	M5 x 6 mm	5
Fig. 7 Screw mount.: Cover with threaded bolt	M4 x 10 mm	6
Fig. 7 Screw mount.: Cover with threaded bolt	M4 x 15 mm	7
Encapsulated bimetallic disk		0
Uncovered bimetallic disk		1
Fig. 8 Lengthening reset cap for limiter	L = 11 mm	2
Fig. 8 Lengthening reset cap for limiter	L = 6 mm	3
Fig. 8 Lengthening reset cap for limiter	L = 4 mm	4

X X X X X X X X X X X X ± 10 ± 05

	Tolerance ± 10°K °C	Tolerance ± 5°K °C
045	45	45
050	50	50
056	-	56
063	63	63
071	-	71
080	80	80

80–140° only available in 2KB and 3KB (without button)

Ordering example: 3KBF 1140 056 ± 05 =

Limiter with trip-release / short button / screw lugs downwards 2.5 mm² / cover with threaded bolt M4 x 6 mm / trigger temperature 56°C ± 5°K

Ordering example: 2KB / 3KB 544 100 ± 05 =

Limiter without trip-release / Push-on tabs 6.3 mm sideways / cover with threaded bolt M4 x 6 mm / lengthening reset cap 4 mm / trigger temperature 100°C



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