Transient filter type RXTZB 2

Type RXTZB 2 is a LC-filter that prevents voltage transients to reach electronic circuits when supplied from for example station batteries. Voltage transients are developed for example when the current to an inductive apparatus is interrupted.

The filter is intended for a d.c.-voltage of maximum ± 48 V.

Type RXTZB 2 is used for example together with automatic equipment type RAAD for power system restoration, temperature monitoring system type RANVA and speed monitoring system type RAGNA.

CONNECTION

When the filter is used together with equipment that requires a plus-minus voltage supply with neutral it is connected according to Fig. 1.

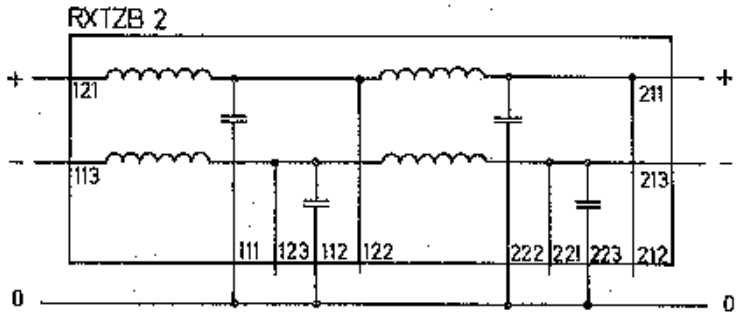


Fig. 1. Connection for plus-minus supply with neutral.

When supplied with d.c.-voltage without neutral the branches of the filter are parallel connected to reduce the voltage drop, see Fig. 2. The filter protects only against transient transverse mode voltages.

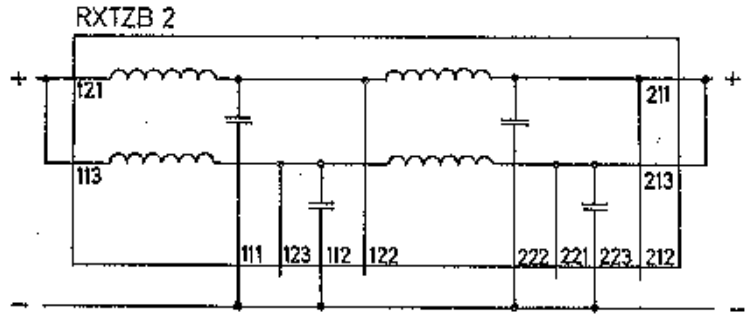


Fig. 2. Connection for d.c.-voltage supply without neutral.

The filter can also be connected symmetrically, see Fig. 3, to provide maximum protection for transient transverse mode and common mode voltages.

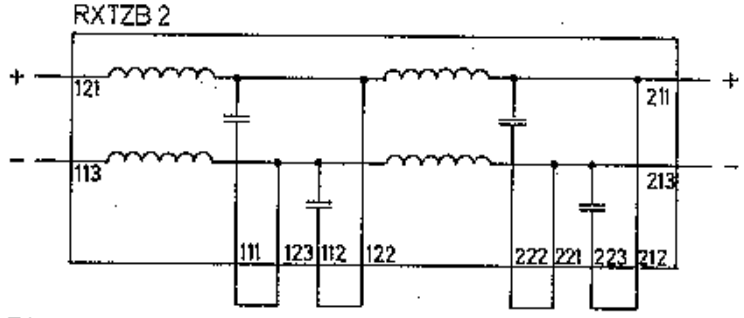


Fig. 3. Symmetrical connection for d.c.-voltage supply without neutral.

Connection according to Fig. 1 is recommended for speed monitoring system type RAGNA. Connection according to Fig. 2 is recommended for temperature monitoring system type RANVA. Connection according to Fig. 3 is recommended for automatic equipment type RAAD for power system restoration.

MOUNTING

The transient filter type RXTZB 2 is a two seat plug-in device size 2S 12C (see dimension drawing on page 3) in the modular system COMBIFLEX. It is intended to be inserted in a terminal base type RX which is mounted on apparatus bars or on the apparatus frame in a COMBIFLEX 19" equipment frame. The modular system COMBIFLEX is described in Catalogue RK 92-10 E.

MAINTENANCE

During normal conditions the filter requires no specific maintenance but it should be mounted so it is protected against dust, moisture and corrosive atmosphere.

TECHNICAL DATA

Input voltage Max. ± 48 V

Damping

Frequency kHz	Damping when connected according to Fig. 1 and Fig. 2 Number of times	dB	Damping when connected according to Fig. 3 Number of times	dB
30	> 10000	> 80	> 10	> 20
50	> 100000	> 100	> 1000	> 40
100	> 1000000	> 120	> 10000	> 80

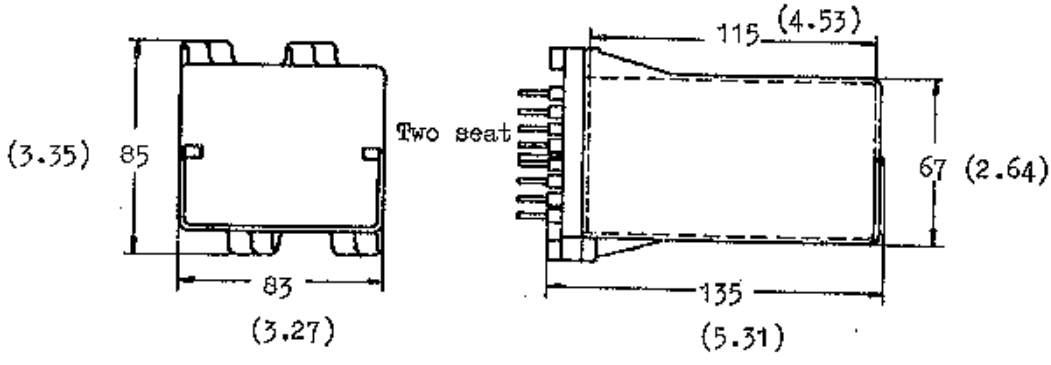
The damping for voltage impulses stipulated in publication BEAMA 219 is approximately 56 dB (625 times).

A current of 4 A through one branch of the filter gives a voltage drop of approximately 0.5 V.

ORDERING PARTICULARS

Type	Catalogue Number
RXTZB 2	RK 731 004-AA

DIMENSION DRAWING



Dimension in mm (inches)

REFERENCE PUBLICATION

COMBIFLEX® Modular system for rational mounting and wiring of electrical units	RK 92-10 E