Operating instructions for ex-coil K15 ex-...

Manufacturer and service address:

müller co-ax ag
Gottfried-Müller-Straße 1
D-74670 Forchtenberg

Fon: 07947-828-0
Fax: 07947-828-11
e-mail: info@co-ax.de Internet: www.co-ax.com

general safety instructions:

This instruction is meant for experienced electro-experts acc. to BetrSichV only. The operation of the coil is only allowed as long as the coils is not damaged and in proper operating conditions. Please observe the accident prevention regulations! The EN 50281-1-2 requirements (electrical equipment for use in areas with combustible dust ... selection, set up and maintenance) e.g. with regards to dust areas and temperatures are to be fulfilled.

Typ: K15 Ex- ...

technical data:

this applies for all nominal voltages:

type of voltage: direct current and two-way rectified alternating current (suit up to 48 % ripple)
polarity: optional
ambient temperature: -30 up to +40 °C
media temperature: -30 up to +40 °C
temperature class: T4
single assembly: yes
battery assembly: not allowed

type of protection

equipment certification: Ex II 2 G EEx me II T4 und II 2D IP 65 T130°C
EG-prototype test number: PTB 02 ATEX 2120 X
protection: IP 65 (EN 60529)
CE certification: CE 0102

nominal voltage and electrical data

type	nominal voltage	pick up voltage	power consumption
K15 Ex-230 V	230 V	0,14 A	27,0 W
K15 Ex-220 V	220 V	0,15 A	28,0 W
K15 Ex-200 V	200 V	0,16 A	27,0 W
K15 Ex-125 V	125 V	0,26 A	22,0 W
K15 Ex-110 V	110 V	0,30 A	27,0 W
K15 Ex-98 V	98 V	0,33 A	27,5 W
K15 Ex-48 V	48 V	0,64 A	26,5 W
K15 Ex-24 V	24 V	1,33 A	27,0 W

description:

The coil is the actuator of the valve. The valve will be supplied assembled with the coil installed.

special conditions for installation:

1.) Each coil has to be protected by a fuse that corresponds to its rated current (max. 3 x I_B nach DIN 41571 oder IEC 127) or an engine-protection-switchgear with short circuit and thermical fast-acting release (adjusted to rated current).
The "safety rated current" should be the same or higher than the indicated nominal voltage of the coil. The switch-off power capacity of the "Fuse Link" should be the same or higher than the max. expected short-circuit-voltage on the installation place (usually 1500A).

2.) All appropriate measures should be taken in order to avoid a voltage surge that can cause a short circuit.

nominal voltage	turn-off over voltage
30 V	480 V
60 V	800 V
110 V	1200 V
250 V	1600 V

installation:

In addition to the general approved technical rules the equipment-safety-law as well as the regulation of BetrSichV have to be considered.
The prescribed min. protection IP 65 can only be reached if the cable end is mounted correctly. The cable connection is to be fixed carefully.
The isolation has to be enough to reach the terminals. All terminal screws are to be tightened. The cable connection must be installed.
fixed. If the potential balance do not occur by valve installation the balance has to be connected with the outer terminal on the box.

operation

Before start of operation, the correct installation of the valve, the electrical connection and the supply voltage have to be double checked and assured that they are in working order.

repair:

In case of a failure the complete valve has to be sent to the manufacturer for repair. Spare parts for repairs can only be supplied after consultation with the manufacturer.