

**Assembly Instructions  
for Auxiliary Switch Holders for the  
LTL-1 Fused disconnect switch  
in Tap-off units  
Types KH0-25SD85 and KH0-SD1075242**

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<b>Distribution:</b>			

## Auxiliary switch holder assembly instructions

### Introduction

When carrying out terminal work in the Canalis tap-off units with the type designations KH0-25SD85 and KH0-SD1075242 with a size NH-1 fused disconnect switch for the Canalis KHA/KHF bus bar trunking system, it is possible that the cover of the fused disconnect switch is, instead of being in the correct direction, inserted and closed the wrong way round in the case of an assembly error being made by the operating personnel. Such an assembly error can only occur with tap-off units which were manufactured prior to 1997.

If the operating personnel incorrectly fit the closing lid of the fused disconnect switch, an attempt to close the fused disconnect switch lid results in a short-circuit on the feed side, whereby the possibility of personal injury cannot be excluded. In order to avoid the possibility of an incorrect fitting of the fused disconnect switch closing lid, all of the fused disconnect switches manufactured prior to 1997 must be fitted with at least one auxiliary switch holder for mechanical coding. This is to ensure within the standards of the general test for the determination and of a correct condition (BGVA3).

### Identification

The tap-off units with the affected fused disconnect switches can be identified by the type designations on the type designation plates.

Tap-off unit type designation:

**canalis KH**  
**KH0-25SD85**

or

**canalis KH**  
**KH0-SD1075242**

Fused disconnect switch type designation:

**JEAN MÜLLER**  
**LTL1....**

#### Note:

Fig. 1 shows a tap-off unit which is coated light grey (RAL7032). The affected tap-off units can also be light-blue. It can also not be excluded that the tap-off units were delivered with special coating according to customer requirements.

### Identifying the year of manufacture

The year of manufacture is specified by the marked coding. This can be on various parts of the type designation plate.

The year is stated in the two figures after the characters 7M. The following two figures show the week of manufacture.

Example:

7M **89**25 = Year 1989, Week 25

**If the year figures are 96 or less, two auxiliary switch holders are to be retrofitted to the fused disconnect switch. The retrofitting is carried out as follows.**

Fig. 1: Top view of tap-off unit

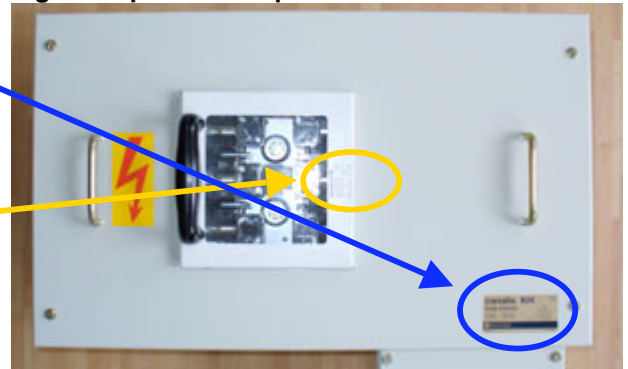


Fig. 2: Tap-off unit type designation plate

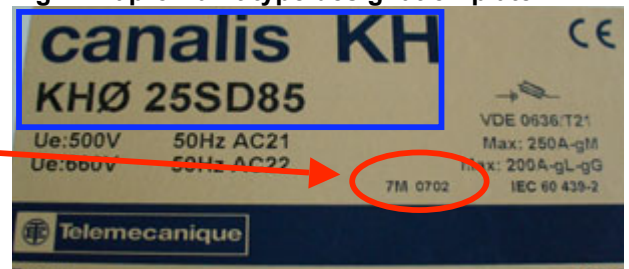
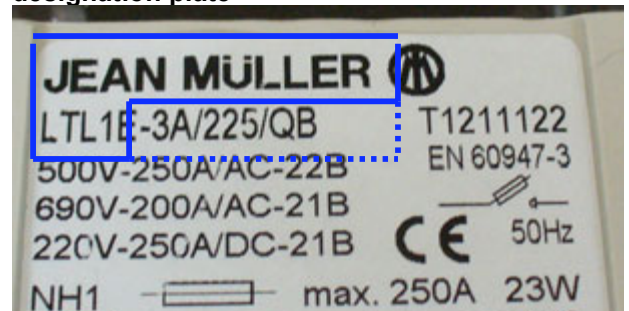


Fig. 3: Fused disconnect switch type designation plate



## Auxiliary switch holder assembly instructions

### Safety instructions:

The work described below is only to be carried out by electrical specialists with suitable professional training in, knowledge of and experience when dealing with heavy current bus bar trunking systems. It is mandatory that the social insurance for occupational accidents instructions **BGV-A3** and the **DIN VDE 0105 Part 1 (EN 50110-1)** are adhered to!

#### Step 1:

Before commencing work, the working conditions are to be determined at the tap-off unit places of installation and the required tools, equipment, protective (personal protective equipment) and aids are to be determined.

#### Step 2:

Identify the type of tap-off unit by referring to the data on the type designation plates as described above.

#### Step 3:

Determine the correct allocation of the tap-off unit to the consumer and ensure that the consumer which is supplied by the tap-off unit is switched off.

#### Step 4:

Open the lid of the fused disconnect switch with a quick pull (fig. 4). The contacts (fig. 5, red markings) on the feed side of the fused disconnect switch **are live** if the entire bus bar trunking system has not been switched off!

#### Step 5:

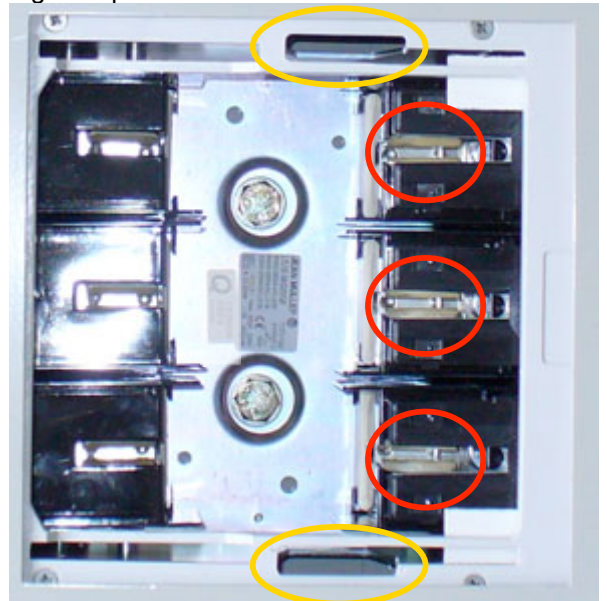
In this picture (fig. 5) **no** transparent plastic auxiliary switch holders are installed under the two openings which are marked yellow in fig. 5. **The auxiliary switch holders must be retrofitted.**

**If a minimum of one auxiliary switch holder exists**, the tap-off unit is sufficiently equipped. Please continue with Step 10.

Fig. 4 Opening the fused disconnect switch



Fig. 5: Opened fused disconnect switch



## Auxiliary switch holder assembly instructions

### Step 6:

Loosen the four screws at the corners of the cover.  
Remove the cover from the tap-off unit

### Safety instructions:

*If the tap-off unit is placed on the bus bar trunk from above, it is possible that objects which accidentally fall in can cause a short-circuit. Therefore please ensure for example that you do not have any objects in the pockets of your shirt and jacket which could fall in when you bend over.*

Fig. 6a: Loosening the cover screws

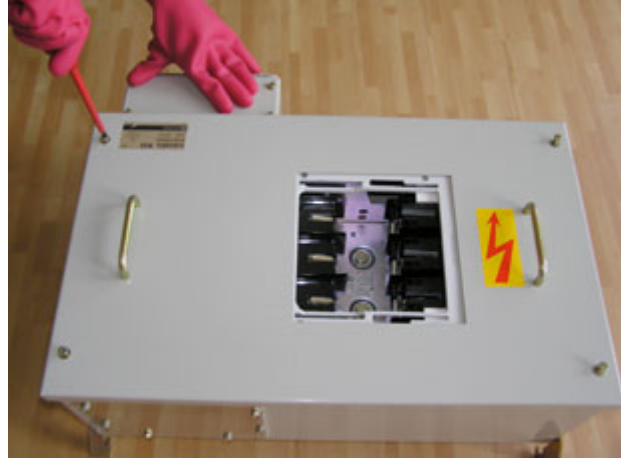


Fig. 6b: Removing the cover

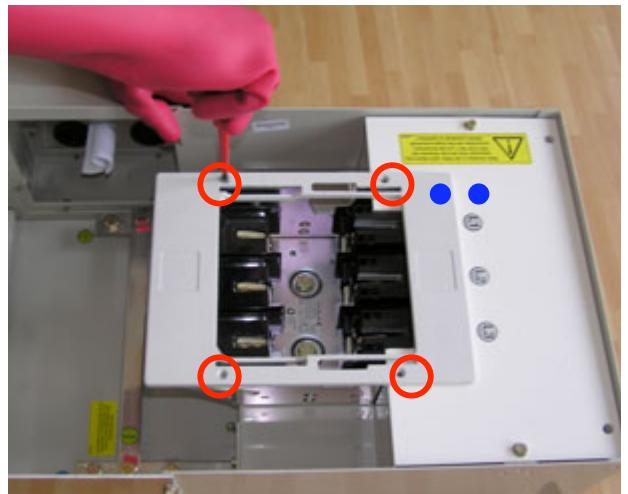


### Step 7:

With a marker (plastic permanent marker) for example, mark the fitting position of the fused disconnect switch cover with reference to the insulating material cover (fig.7, blue dots).  
Loosen the four screws (fig. 7, red markings) or the fused disconnect switch cover and lay these to one side.

*Do not remove any other covers!*

Fig. 7: Marking and removing the cover of the fused disconnect switch



## Auxiliary switch holder assembly instructions

### Step 8:

Insert the auxiliary switch holders into the openings shown on both sides of the fused disconnect switch.

Ensure that you notice them latching into place and check that they are correctly seated by pulling on them slightly.

Fig.8a: Inserting the auxiliary switch holders

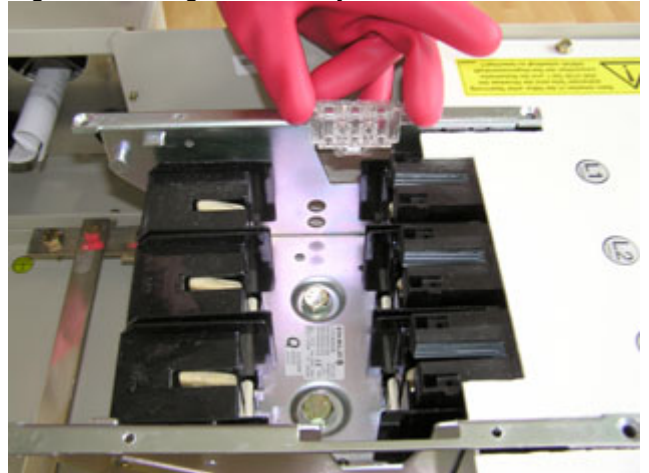


Fig. 8b: Inserting the auxiliary switch holders



Fig.9: Replacing the fused disconnect switch cover



### Step 9:

Replace the fused disconnect switch cover with reference (fig.10, blue dots, also refer to Step 7) to the insulating material cover and fix it in place with the four screws.

### Tip:

*Before replacing the fused disconnect switch cover, please carry out a visual inspection of the cable connections for signs of damage or overheating.*

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### Step 10:

Replace the housing cover and screw these in position at all four corners.

Apply the adhesive "Auxiliary switch holders checked/inserted" information label above the type designation plate (fig. 10b)

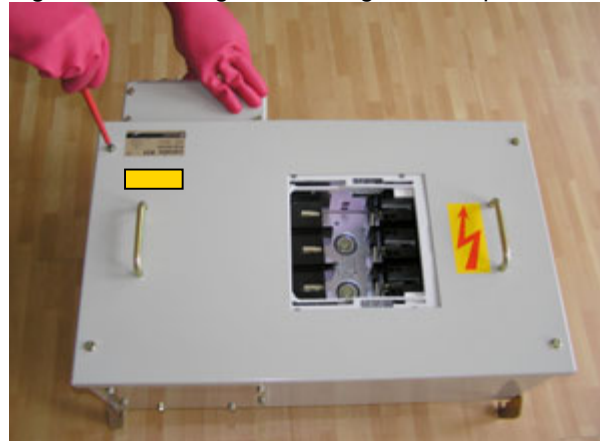
#### Tip:

*Before replacing the housing cover, please carry out a visual inspection for foreign bodies and any damages.*

Fig. 10a: Replacing the housing cover



Fig. 10b: Screwing the housing cover in position



### Step 11:

Replace the cover of the fused disconnect switch with the **hinges facing the cable outlet side**.

Connecting: close the cover with the correct NH fuses with a swift action.

#### Tip:

*When doing so, check the allocation of the fuse current level to the outgoing cable, the rated voltage of the fuse for the plant's operating voltage and the ageing condition of the NH fuses.*

*Only fuses with a size of NH-1 are to be inserted in the fused disconnect switch!*

*For a general determination and ensuring of the correct condition (BGV-A3), please place your own adhesive test label in a suitable place and document the test in your documents.*

Fig. 11: Replacing the fused disconnect switch cover with the hinges facing the cable outlet side

