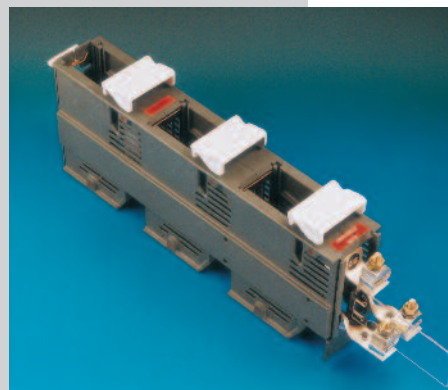


**Mounting instructions for  
DRIESCHER -  
Low voltage - fused -  
switch disconnecter system 403**

- Rated current 400 up to 1445 A



# B843

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## General

The mounting of fused-switch disconnecter system 403 on busbars under voltage is made by a tested insulating plug-in-lever according to EN 60900 (DIN VDE 0682 part 201) or rather EN 61477 (DIN VDE 0682 part 130).

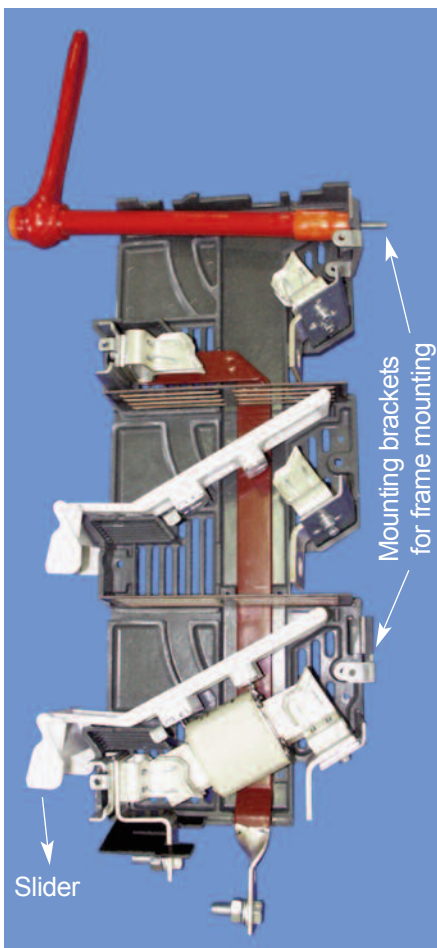
**When working under voltage the standards of DIN VDE 0105 part 1 must be observed. Working under voltage must be carried out by specially trained personnel.**

## Insulated plug-in-lever

Scope of delivery:

Pos.	Part-no	Length / Plug-in-lever	Description
1	2-84031005	300 mm, Set Pos. 2 - 5	Plug-in-lever with ratchet, drawing-no. NN4-97429
2	2-31900013	1/2 "	Ratchet lever DIN 7449 1/2 ", insulated
<b>! Observe the corresponding instruction manual!</b>			
3	2-31900014	250 mm, 1/2 "	Extension piece acc. to DIN 7434 1/2 ", insulated
4	2-31900023	SW 13, 1/2 "	Socket spanner insert SW 13 (M8) 1/2 ", insulated, for mounting 403 system on a frame
5	2-64107850	SW 19, 1/2	Cardan-joint insert SW 19 (M12), 1/2 ", not insulated, for busbar mounting

## Mounting the fused-switch disconnecter system on a frame



**Pic. 1: 403 system mounting situation on a frame**

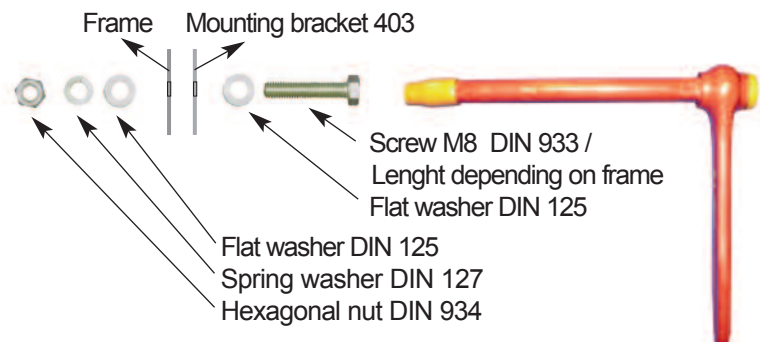
The insulated socket spanner insert is additionally secured with a set-screw, so that the insert can not be removed unintentionally.

**Mounting:**

Low voltage - fused-switch disconnecter system type 403 / 400 A - 1445 A are mounted with 2 screws M8 on the frame. The busbars are supported by system 403.

## Work cycle:

1. Remove the slides for LV-fuses on system 403 (pic. 1)
2. Integrate the cable insulating cover (pic. 6) on system 403 to prevent unintentional contact
3. Put system 403 on the frame
4. Fix system 403 with tools demanded according to the standard for working under voltage pos.4 (pic. 1 and 2), tightening torque 30 Nm.
5. Remove cable insulating cover (pic. 6) at the cable feeder
6. Connect the cable (seen page 4)
7. Integrate the cable insulating cover (pic. 6) at the cable feeder



**Pic 2: Insulating plug-in-lever with socket spanner insert SW 13**

For live working tested according to VDE up to 1000 V / AC.

## Mounting the fused-switch disconnecter system 403 on the busbar



**Pic 3: 403 system mounting situation on the busbar**

For mounting necessary hexagonal nut, spring washer and flat washer must be attached on the connecting element fixed on the cardan-joint insert (see pic. 4), so that it can be accurately led while fixing on the connecting screw (M12).

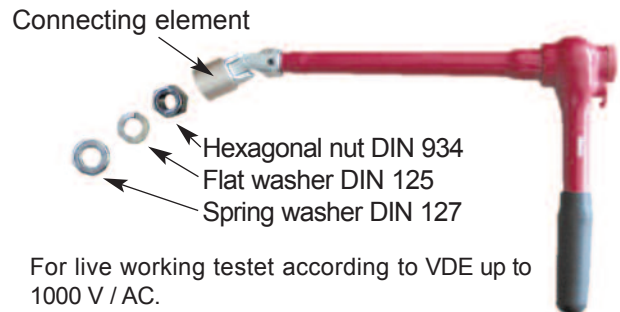
The not isolated cardan-joint insert is additional fixed with a setscrew on the plug-in-lever, that the insert can not be removed unintentionally.

As shown in pic. 3, the insulating plug-in-lever is led on the caulked-connecting screw of the busbar contact and the screwed connections are properly assembled.

### Mounting:

Work cycle:

1. Remove busbar insulating cover (pic 5)
2. Remove the slides for LV-fuses on system 403 (pic 3)
3. Ingerate the cable insulating cover (pic. 6) on system 403 to prevent unintentional contact
4. Put system 403 on the frame
5. Fix system 403 with tools demanded according to the standard for working under voltage (pic. 3 and 4), tightening torque 75 Nm.
6. Remove cable insulating cover (pic. 6) at the cable feeder
7. Connect the cable (seen page 4)
8. Integrate the cable insulating cover (pic. 6) at the cable feeder



For live working testet according to VDE up to 1000 V / AC.

**Pic 4: Insulating plug-in-lever with cardan-joint insert SW 19**



**Pic 5: Busbar insulating cover**



**Pic 6: Cable insulating cover**



The cable connection must be covered while mounting the system.  
The cable insulating cover can be removed (pic. 6) only for mounting the cable.  
The cable can only be fixed after finishing mounting of the system!



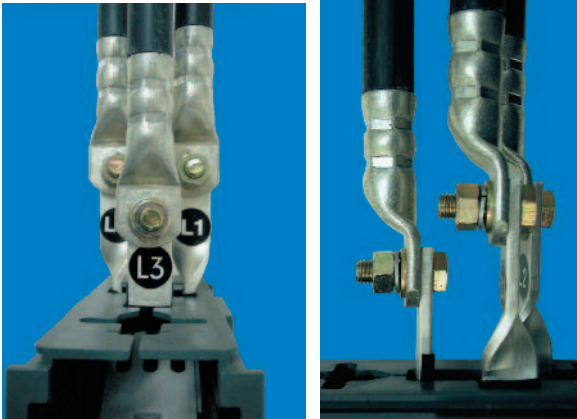
When mounting, falling fittings within the system, must only be removed with tongs according to EN 60900 (VDE 0682 part 201).

## Dismounting low voltage-fused-switch disconnecter system type 403

### Dismounting:

For dismounting the fused-switch disconnecter system 403, the working cycles are to do in backward order. **Observe also the safety regulations for live working.**

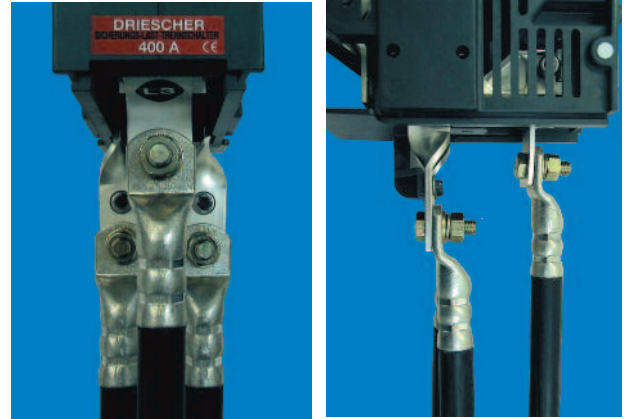
### Cable connection



**Pic. 6: Cable connection above**

The cables are to be placed in the cable lugs or clamps, in such a manner that no mechanical tension appears on the connecting bars.

The connecting M12 screws are caulked in the copper bars. On tightening (max. tightening torque



**Pic. 7: Cable connection below**

65 Nm) as well as loosening the cable, the screw head must be held with a tool.

**The connecting bars should never be bend or twisted.**

### Commissioning

After the 403 system is mounted and the cables are connected, the correct functioning must be tested

with the slider (or operating element) without the NH-fuses. After this the cover can be mounted.

### Service

Our staff is available for you in case of disturbance or questions regarding compatibility, mounting or maintenance, by telephone also after normal working hours. Please mention the date on the name plate.

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