

## 4 Power Distribution

You can replace the following power distribution components:

- Main switch (power supply terminal)
- Motor protection switch
- Automatic line fuse
- Power distribution board
- Auxiliary power supply

### 4.1 Replacing the Main Switch



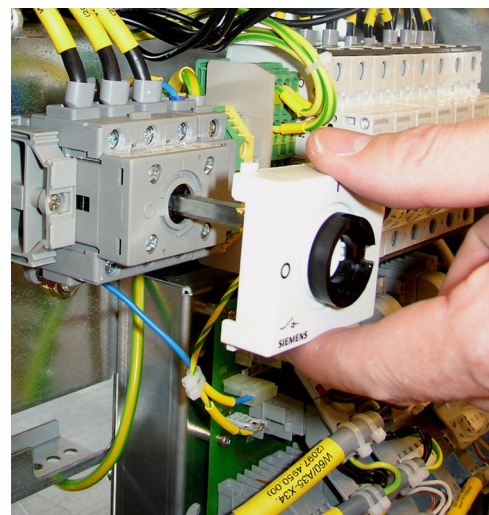
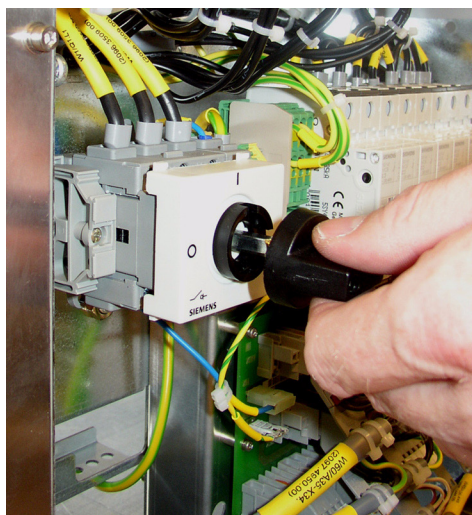
#### ATTENTION!

Always make sure that the power supply is disconnected before commencing any service work on the transmitter rack; this will prevent injury caused by electric shock and damage to the instruments.

#### 4.1.1 Removing the Main Switch

To remove the main switch proceed as follows:

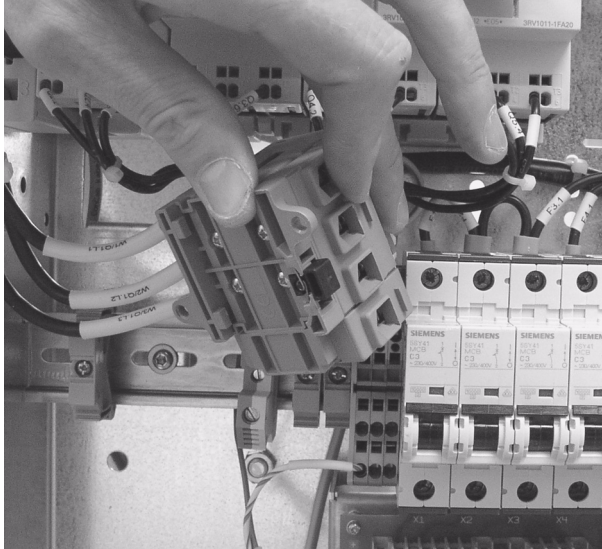
1. Using a Torx screwdriver No. 20, remove the front panel of the power distribution.
2. Unscrew the rotary knob and the main switch cover.



**Fig. 2** Unscrewing the rotary knob and cover

3. Undo the screws on the switch housing (Phillips screwdriver No. 1) and remove the connected cables.

4. Undo the screws on the terminal rack on the left of the main switch and slide the terminal rack to the left.
5. Pull forward the black stop lever on the underside of the main switch.
6. Carefully take out the main switch.



**Fig. 3** Taking out the main switch

### 4.1.2 Installing the Main Switch

1. Replace the main switch by proceeding in the reverse order.
2. Insert the cables into the corresponding openings and fasten them with screws.

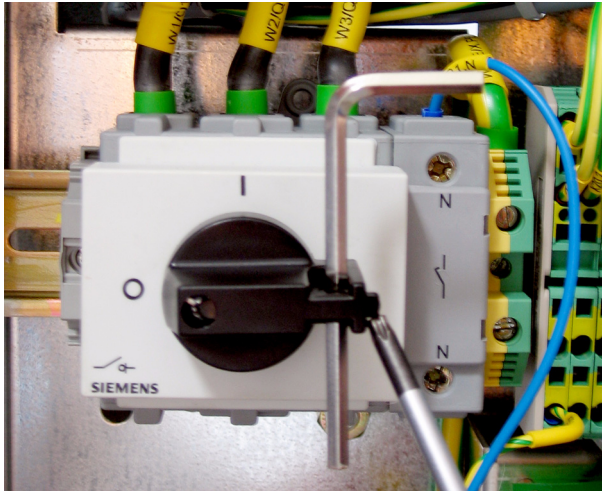
**Note** Notice how the cables are labeled and make sure they are in the right sequence, since two of the three phase cables are the same color (black).

3. Measure the rotary field with the aid of a rotary field meter.

If the rotary field is correct, continue with the next step; if it is wrong, swap two wires from the cable and measure the rotary field again.

4. Screw the main switch cover and the rotary knob back on.

**Note** When working on the transmitter rack the main switch can be locked in the "OFF" position (see next figure).



**Fig. 4** Main switch locked

## 4.2 Replacing the Motor Protection Switch



### ATTENTION!

Always make sure that the power supply is disconnected before commencing any service work on the transmitter rack; this will prevent injury caused by electric shock and damage to the instruments.

### 4.2.1 Removing the Motor Protection Switch

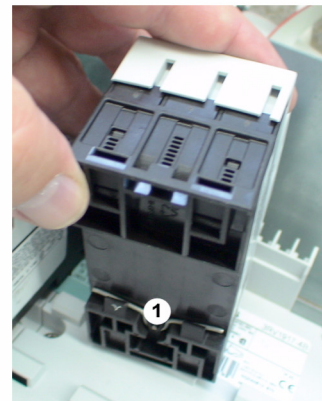
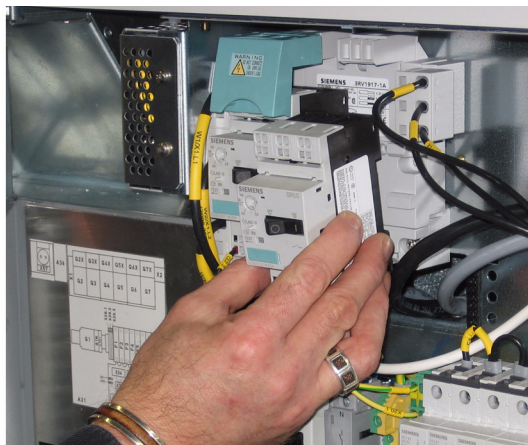
To remove the motor protection switch proceed as follows:

1. Using a Torx screwdriver No. 20, remove the front panel of the power distribution.
2. Pull the blue-green shorting plug forward.  
If necessary you may use a screwdriver (No. 0) suited to the relatively high amounts of force that are needed.



3. Press the motor protection switch sharply downward and pull it forward by the bottom edge.

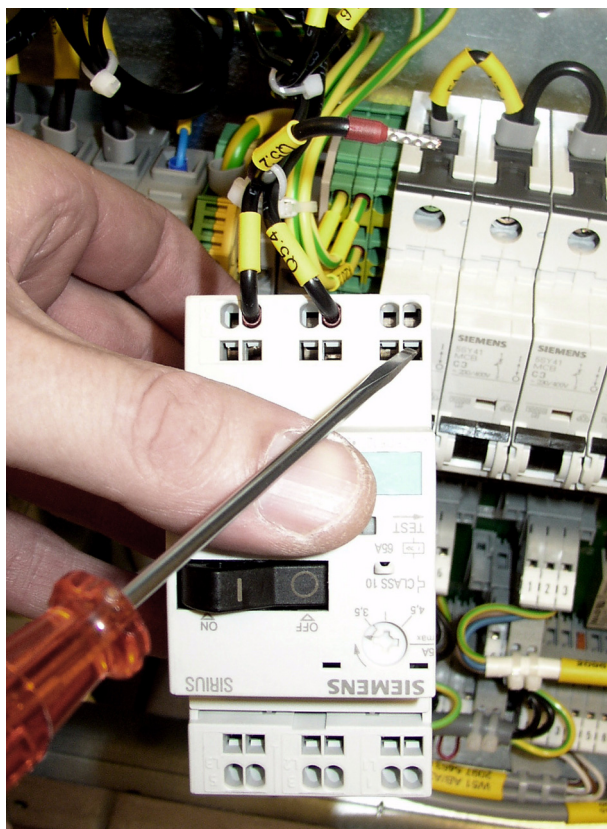
Because there is a spring clip behind the upper edge, you can only release the switch downward.



- 1) *Spring clip*

4. Use a screwdriver to open the cable clamps and pull out the connected cable (see figure).



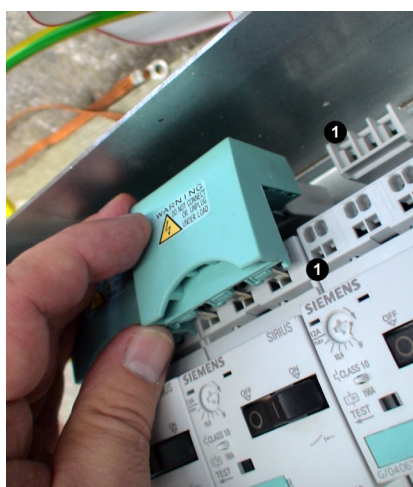


**Fig. 5** Opening the cable clamp on the motor protection switch

## 4.2.2 Installing the Motor Protection Switch

☞ Replace the motor protection switch by proceeding in the reverse order.

**Note** When replacing, feed the shorting plug right in and push the switch into place with some force.



**Fig. 6** Installing the motor protection switch