

Assembly Instructions M8154-EN

Modification kit mains switch 3-pol. (O/ID 27853-X)

Purpose

Conversion mains switch 3-pol.

Precondition



WARNING!

Danger for unauthorized persons!

Conversion work may only be carried out by specialist staff who have been trained accordingly.

Therefore:

- Keep unauthorized persons away from the work area.



NOTE!

Knowledge of the Instruction Manual is a precondition for carrying out conversion work on the unit.

Procedure



DANGER!

Danger to life caused by electric current!

Touching conductive parts causes a direct danger to life.

Therefore:

- For all work on the electrical system, for maintenance, cleaning or repair work, disconnect from the mains or disconnect all phases of the external power supply and secure them against being switched on again. Check unit is isolated from power supply.



WARNING!

Danger of crushing due to rolling away or tipping

With an uneven floor or when the castors are not locked, there is a danger that the unit tips over or rolls away causing crushing.

Therefore:

- Only install the unit on an even floor.
- Ensure that the castors are locked.

1. Proceed as follows in order to cool down the unit.
 - Display menu page **Functions**.
 - Select the function **Cooling** and activate with the **OK** key.

→ The activated function is indicated with the **✓** symbol.
2. Switch off master switch and disconnect from mains supply.
3. Replace 1x screw (label 1 → Fig. 1) with M4x10 screws (→ see Parts List Pos 05).
4. Replace 2x screw (label 2 → Fig. 1) with M4x16 screws (→ see Parts List Pos 06).
5. Using two size 1 slotted screwdrivers (label 4 → Fig. 2), penetrate between cover and handle (label 3 → Fig. 1), click off and remove.
6. Remove 4x screws from main switch (QS 1).

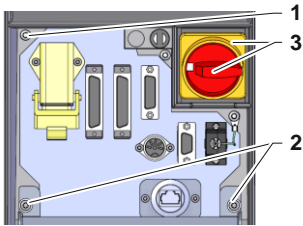


Fig. 1: Interface plate

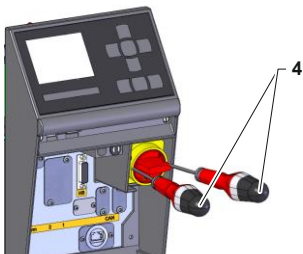


Fig. 2: Remove cover using handle

7. Loosen the screws in the front panel and hinge it down.
8. Proceed as follows to remove GIF-51 (A 4):
 - Remove all connectors.
 - Remove the strands through the current transformer on KM 1.
 - Remove screws (label 1 → Fig. 3) on the sides of the circuit board.

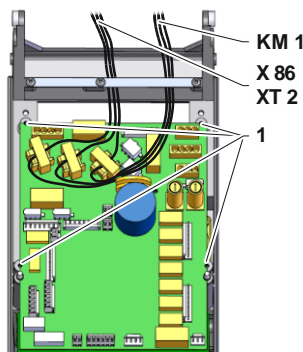


Fig. 3: Remove GIF-51

9. Proceed as follows to disassemble the master switch (M 1):
 - Detach cables L2 and L3 from the master switch to terminal (XT 1) at terminal, → see Appendix Wiring Diagram.
 - Detach cable from terminal (XT 1) to master contactor (KM 1), → see Appendix Wiring Diagram.
 - Remove master switch and cable.
10. In order to install the three-pole master switch with cable, please proceed as follows:
 - Insert three-pole master switch (label 1 → Fig. 4) along with seal into the inside of the front panel.

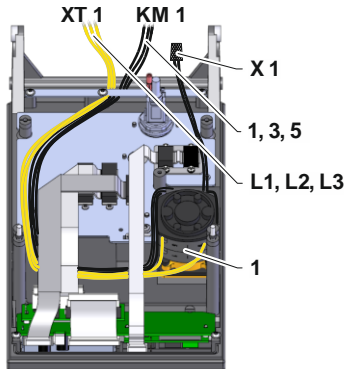


Fig. 4: Three-pole master switch



Fig. 5: Mounting plate

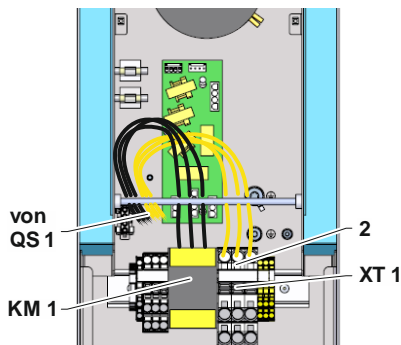


Fig. 6: Cable routing for housing size 2 appliances



NOTICE!

The connectors for cables L1, L2 and L3 (yellow) must be positioned in the direction of USR-51 when the front panel is folded down (→ Fig. 4).

- Affix mounting plate for main switch (→ Fig. 5 with dial inserted "I" = top) to the outside of the front panel with 4x screws.
- Press on cover (yellow) using handle (red) until it engages.
- Lay cable routing accordingly Fig. 4 and connect to master contactor (KM 1) or terminal (XT 1), → see Appendix Wiring Diagram.



NOTICE!

In the case of size 2 appliances, because of the positioning of components KM 1 and XT 1, excess cable occurs which must be laid accordingly Fig. 6.

- Attach alarm cover for lightning to terminal (XT 1) (label 2 → Fig. 6).

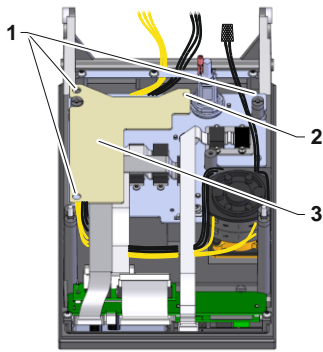


Fig. 7: Mounting the insulating plate

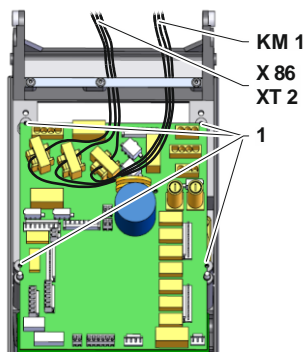


Fig. 8: Front panel hinged down

11. Proceed as follows in order to mount the insulating plate:


- Affix 2x or 3x (for 27853-2, 27853-4) M4x8 spacer bolts onto mounting screws (label 1 → Fig. 7) on interface plate.
- Affix 1x M3x9 spacer bolt (for 27853-1, 27853-3) onto mounting screw (label 2 → Fig. 7) on interface ZO.
- Click insulating plate (label 3 → Fig. 7) into place on spacer bolts.

12. Proceed as follows to install GIF-51 (A 4):


- Install GIF-51 (A 4) and affix using the screws (label 1 → Fig. 8).
- Thread strands through current transformer and connect.
- Connect all connectors.

13. Close and secure the front panel.

14. Reconnect mains plug and switch on main switch.

15. Switch the unit on with the  key.

16. Check unit functions.

17. Switch the unit off by press the  key.

18. Main switch off.

Appendix Wiring Diagram

Mains switch 2-pol. (previous)

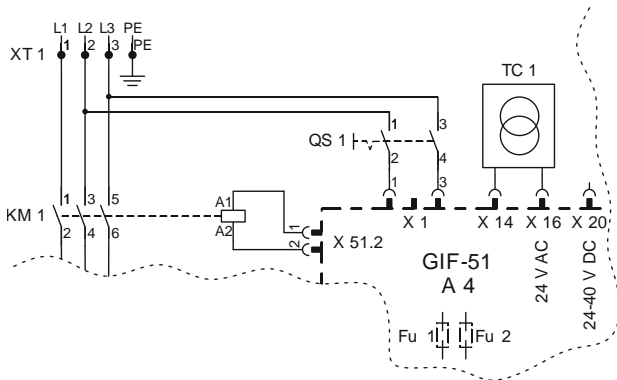


Fig. 9: Mains switch 2-pol.

Mains switch 3-pol. (new)

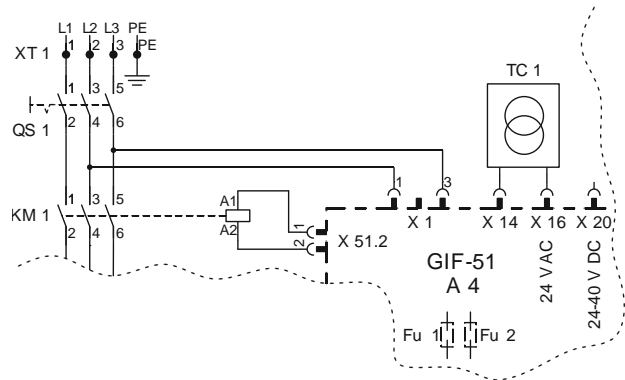


Fig. 10: Mains switch 3-pol.

Parts list

Pos	Description	O/ID	O/ID			
			27853-1	27853-2	27853-3	27853-4
			Pcs	Pcs	Pcs	Pcs
01	Cable with main switch 3-pol.	27360-1	1	1	1	1
02	Warning lightning 2,5/4 mm ²	27855	9	9	-	-
03	Warning lightning 6(10) mm ²	27856	-	-	9	9
05	Screw ISO 7380 M4x10-TORX-8.8 verz.	B1983563	1	1	1	1
06	Screw ISO 7380 M4x16-TORX-8.8 verz.	B1983636	2	2	2	2
07	Plate 138x100x1,5	27769	1	-	1	-
08	Plate 138x162x1,5	27768	-	1	-	1
09	Distance bolts M4x8 PA 6.6	27837	2	3	2	3
10	Distance bolts M3x9 PA 6.6	27839	1	-	1	-
11	Cable ties 4,8x202	14121	1	1	1	1
12	Assembly instructions German	M8154-DE	1	1	1	1
13	Assembly instructions English	M8154-EN	1	1	1	1
14	Assembly instructions French	M8154-FR	1	1	1	1