

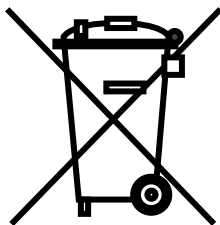


LVD relay retrofit kit

MTS 2 enclosures

Rev. 1.2

Dantherm[®]
CONTROL YOUR CLIMATE



Der tages forbehold for trykfejl og ændringer
Dantherm can accept no responsibility for possible errors and changes
Irrtümer und Änderungen vorbehalten
Dantherm n'assume aucune responsabilité pour erreurs et modifications éventuelles"Delar

Short description of LVD relay retrofit kit installation

What does this instruction cover

A quick reference for installation of LVD relay retrofit kit (Dantherm P/N 040680) for MTS2 .

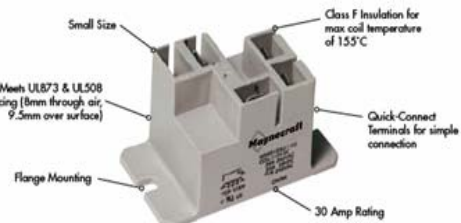
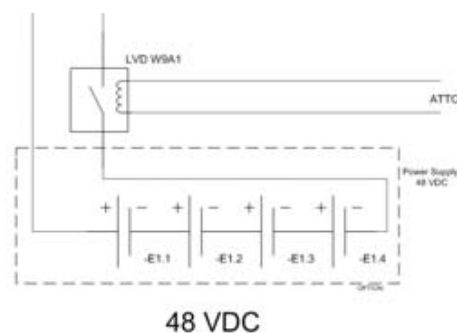
The LVD relay retrofit can be used in a “indoor” Installation of MTS 2 but is also designed to fit the MTS 2 outdoor cabinet.

Item description

Compact power relay on mounting bracket with cabling for enabling a low voltage disconnection option of batteries connected to a MTS2 backup system.

Relay connection in diagram (LVD W9A1)

To DC MAIN circuit breaker



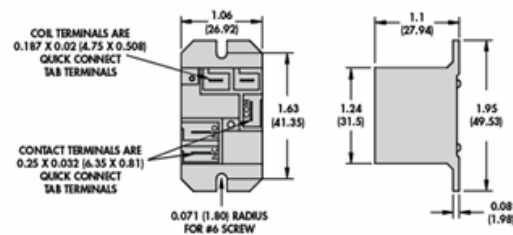
Tools needed

A long neck PZ2 and T20 screwdriver and spanner tool for battery terminals, and cutting tool

Relay has quick connect tab terminals, but will need two screws to be installed (flange).

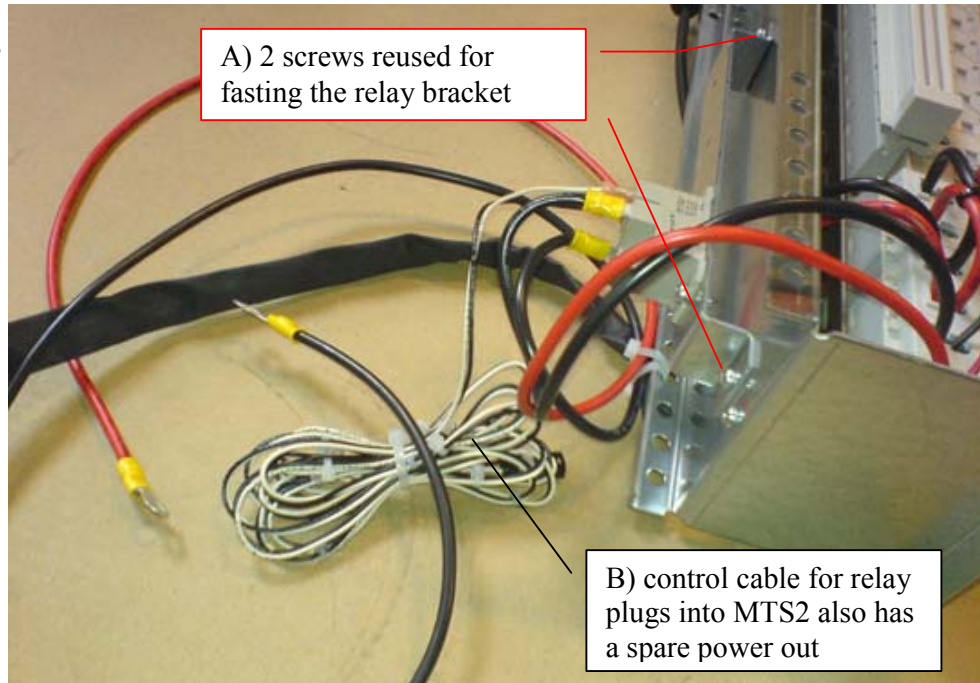
BOM of kit:

- Magnecraft relay W9AS1D52-24



- Bracket for quick connection to Power distribution
- Control cable for LVD relay
- Jumper cable, black AWG10 for connecting MCB to relay
- Battery cable, Black AWG 10, Ø8 ring terminal and 6,3mm quick connect terminal
- Battery cable, Red, AWG10, Ø8 ring terminal and 6,3 mm quick connect terminal
- 3 strips for securing cable and spare screw for securing bracket.
- This instruction.

**Retrofit kit
installation on MTS
2 outdoor cabinet.**

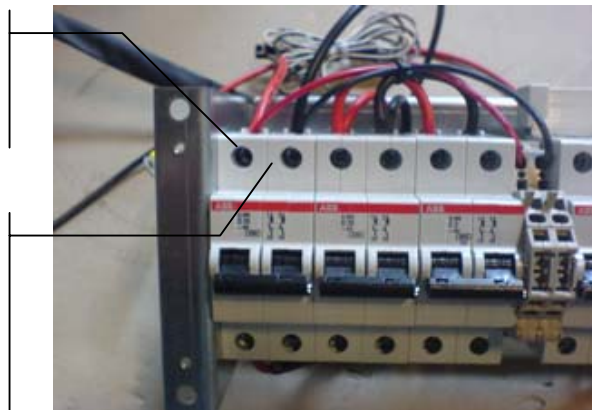


Step by step

1. Disconnect power to the power distribution board
(Also battery cables if installed)
Warning : Working on live system is hazardous, switch off power!
2. Remove cover of the power distribution board by
3. Fit the relay on bracket to the back on the power distribution board by unscrewing the 2 screws and, fitting the bracket and tightening the screws.
(spare screw comes with package) (figure A on photo above)
4. remove existing battery cables at the DC main circuit breaker (25A) to the left on the power distribution board

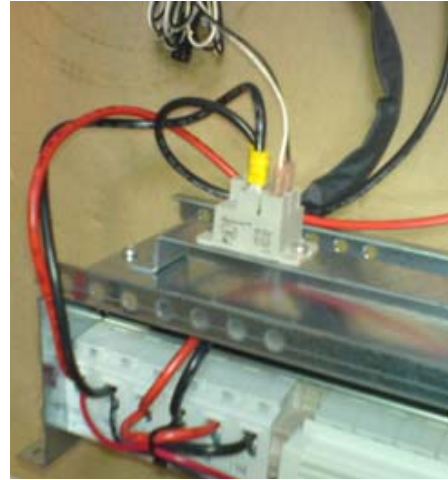
5. Replace red wire with included one with M8 ring terminals. Tighten screw carefully (8 Nm)

6. Replace black wire with the short black wire included in kit (fast on terminal goes into relay (COM)
Tighten screw carefully (8 Nm)



7. Plug the fast on terminals to the relay.

Notice the narrow terminals on the relay coil (to the right on the picture).



8. Connect the battery terminals to the batteries, and secure the cables so it does not get damaged or cut on any edges.

Warning: carefully not to short circuit the battery poles.

9. Route and secure the control cable along the cabinet sides (follow DC power Line) and plug into MTS2, ATTC port on PSU
10. Check if the wires on the power distribution board are tightened properly.
10. Put Power distribution panel cover back on and tighten the four screws
11. Switch power on
12. Check if the relay is engaged, when MTS 2 is powered up.



040684

Dantherm Air Handling A/S

Marienlystvej 65
7800 Skive
Danmark
www.dantherm.com
service@dantherm.com

Dantherm®
CONTROL YOUR CLIMATE