

Danfoss Pre Programmed Controller MCX15B2 for IPS 8 Installation Guide

Home » Danfoss » Danfoss Pre Programmed Controller MCX15B2 for IPS 8 Installation Guide

ENGINEERING TOMORROW



Contents [hide

- 1 Installation guide
- 2 Pre-programmed Controller MCX15B2 for IPS 8 Replacement of MCX controller
 - 2.1 Exchange of MCX15B2 controller Switch OFF:
 - 2.2 Setting of new MCX15B2 controller
 - 2.3 Switch ON again remaining Thermal magnetic miniature circuit breakers
- 3 Documents / Resources
- **4 Related Posts**

Installation guide

Pre-programmed Controller MCX15B2 for IPS 8 Replacement of MCX controller



148R9658

Prior to disconnect and remove the old MCX controller it is important to depressurize the ammonia side of the purger unit by following these steps (see fig. 1)

- 1. Close all supply lines from the purge points of the ammonia system (a)
- 2. Restart the controller to force pump-down
- 3. Wait for 20 minutes

4. Stop the compressor and other connected devices by switching OFF:

IPS variants:

084H5001, IPS 8, CE, 230 V AC, 1ph, 50 Hz 084H5002, IPS 8, 230 V AC, 1ph, 60 Hz

4a) Operate QM1: Thermal magnetic miniature circuit breaker - See Fig. 2a

084H5003, IPS 8, UL 230 V AC, 1ph, 60 Hz

4b) Operate Thermal magnetic miniature circuit breakers - See Fig. 2b

11QF1

11QF2

11QF3

12QF4

- 5. Close the SVA shut-off valve in the drain line (located under the IPS8 (b))
- 6. Release the remaining system pressure to ambient pressure by opening the SNV drain valve (\mathbf{c}). This can also be done by attaching a permanent magnet on the built-in Main Purge valve (YV1 AKVA 10) valve, for forced opening.

Exchange of MCX15B2 controller Switch OFF:

IPS variants:

084H5001, IPS 8, CE, 230 V AC, 1ph, 50 Hz 084H5002, IPS 8, 230 V AC, 1ph, 60 Hz

6a) Operate Thermal magnetic miniature circuit breaker – See Fig. 2a

QM2

QM3

QM4

084H5003, IPS 8, UL 230 V AC, 1ph, 60 Hz

6b) Operate Thermal magnetic miniature circuit breakers - See Fig. 2b

14QF5

14QF6

14QF9

- 6c) Release MCX15B2 controller. See Fig. 3
- 6d) Unplug all connectors upper level. See Fig. 3
- 6e) Unplug all connectors lower level. See Fig. 4
- 6f) Remove old MCX15B2 and install new MCX15B2 and replug all connectors again on both upper and lower level.

Setting of new MCX15B2 controller

IPS variants:

084H5001, IPS 8, CE, 230 V AC, 1ph, 50 Hz

Operate Thermal magnetic miniature circuit breaker – See Fig. 2a QM4 – Power to MCX15B2 controller 084H5003, IPS 8, UL 230 V AC, 1ph, 60Hz Operate Thermal magnetic miniature circuit breakers – See Fig. 2b 14QF9 – Power to MCX15B2 controller

- 1) Enter password 200 (Main screen\Start\Login\ and enter password).
- 2) Enter number of Purge point in question for the particular application (Main screen\Parameters\Unit config\Valve settings\ and enter the valve in Parameter V10, Max_PP).
- 3) See general IPS User Guide/Start Up instruction. The pre-programmed MCX15B2 (code number **084H5067**) is plug & play ready, and only where customer specific settings are applicable, these values must additional be entered into MCX15B2.

Switch ON again remaining Thermal magnetic miniature circuit breakers

IPS variants:

084H5001, IPS 8, CE, 230 V AC, 1ph, 50 Hz 084H5002, IPS 8, 230 V AC, 1ph, 60 Hz

QM1

QM₂

QM3

084H5003, IPS 8, UL 230 V AC, 1ph, 60 Hz

11QF1

11QF2

11QF3

12QF4

14QF5

14QF6



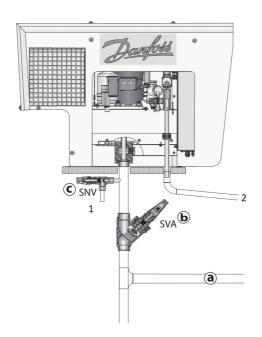


Fig.1

- 1. NH₃ bypass for draining purger
- 2. Purge line to water tank

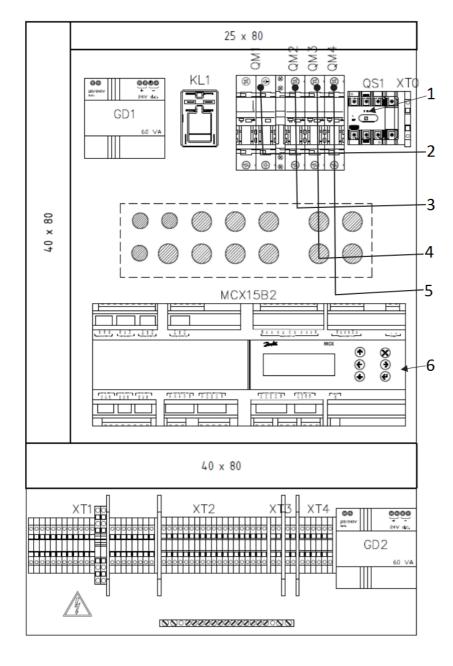
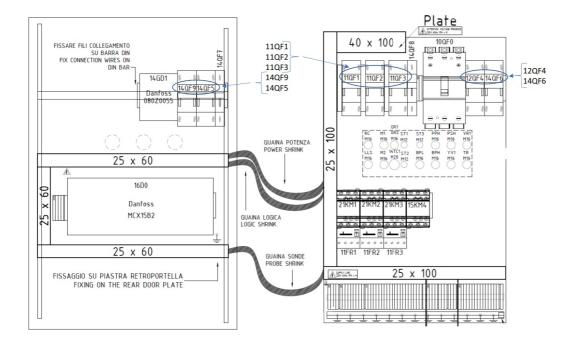


Fig.2a

- 1. QS1: Main switch; IPS panel
- 2. QM1: Thermal magnetic miniature circuit breaker; Compressor, Condenser, Extraction Air Fan, Crankcase Heater
- 3. QM2: Thermal magnetic miniature circuit breaker; 24 V DC for MCX15B2 I/O, Front panel lights and Main Purge valve (YV1)
- 4. QM3: Thermal magnetic miniature circuit breaker; Field connected solenoid coils
- 5. QM4: Thermal magnetic miniature circuit breaker; 230 V AC to MCX15B2 controller
- 6. MCX15B2 controller

Rear of the door



11QF1: Compressor

11QF2: Fan

11QF3: Condenser 12QF4: Heater

14QF5: 24 DC for I/0, Front panel lights and Main Purge valve (YV1)

14QF6: Field connected solenoids 14QF9: Power supply MCX15B2

Fig. 2b

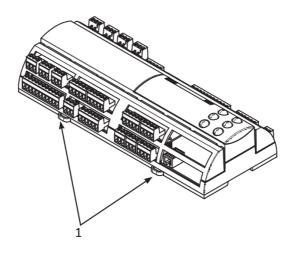


Fig. 3

1. Rail lock: Pull to release controller from suspension rail

Unplug all connections with wires connected and re-plug in the same sockets of the new controller

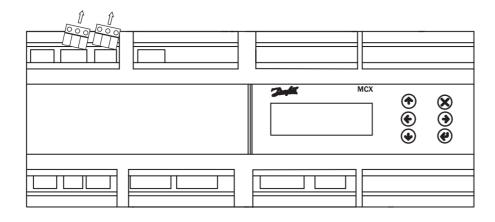


Fig. 4. Controller Upper level

Unplug all connections with wires connected and re-plug in the same sockets of the new controller

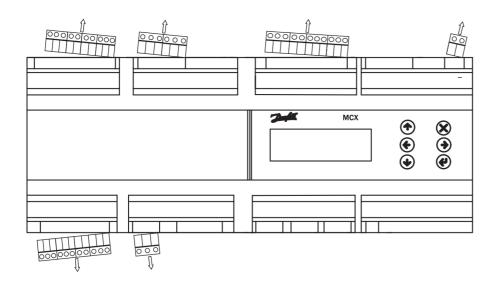


Fig. 5 Controller Lower level

Danfoss A/S

Climate Solutions • danfoss.com • +45 7488 2222

Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogues descriptions, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative, and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogues, brochures, videos and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to form, fit or function of the product.

All trademarks in this material are property of Danfoss A/S or Danfoss group companies. Danfoss and the Danfoss logo are trademarks of Danfoss A/S. All rights reserved.

AN420522619085en-000101

© Danfoss | Climate Solutions | 2022.09

Documents / Resources



<u>Danfoss Pre Programmed Controller MCX15B2 for IPS 8</u> [pdf] Installation Guide Pre Programmed Controller MCX15B2 for IPS 8, Pre Programmed Controller, MCX15B2 for IPS 8, Programmed Controller, Controller, MCX15B2 Controller, IPS 8 Controller, Controller

Manuals+, home privacy