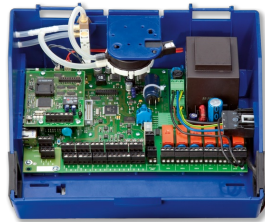
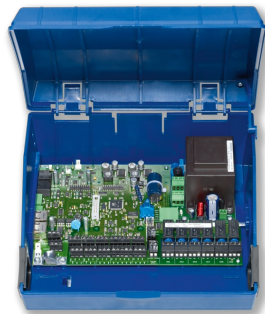


EXPANSION MODULE EM-TRF



EASYLAB CONTROLLER
TCU3



EASYLAB ADAPTER
MODULE TAM

EM-TRF

FOR THE CONNECTION OF EASYLAB TO THE 230 V MAINS

Expansion module for the direct connection of EASYLAB controllers Type TCU3 and adapter modules Type TAM to the 230 V mains

- Double-stack terminal blocks for 230 V supply voltage connection
- Electric plug connection to the main PCB
- The expansion module is fitted into the casing with the EASYLAB base component

Application



Application

- Expansion module Type EM-TRF for the EASYLAB system
- For the connection of EASYLAB base components (controller TCU3 or adapter module TAM) to the 230 V AC supply voltage (mains)
- Power supply for the base component and the connected modules
- Factory mounted or for retrofitting into the EASYLAB base component casing

Special characteristics

- Ready for installation, can be easily connected to the main PCB
- Double-stack terminal blocks for 230 V AC supply voltage connection
- Simple electrical connection of expansion module and EASYLAB main PCB using a connection plug
- Simple wiring of switch-operated fume cupboard lighting in combination with the EM-LIGHT expansion module

Description



Parts and characteristics

- Mains transformer 230 V AC (primary), 24 V AC (secondary)
- PCB plug connector to connect the module to the EASYLAB main PCB

Construction features

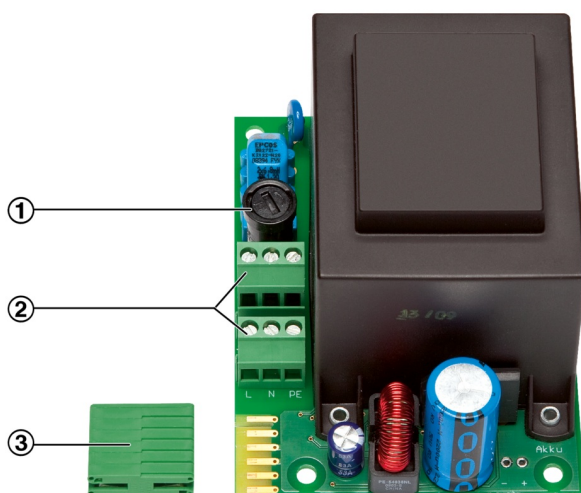
- PCB dimensions and fixing points correspond to the EASYLAB main PCB and the casing
- Fixing with screws
- Double-stack terminal blocks for simply 230 V supply voltage connection

TECHNICAL INFORMATION

Function, Technical data, Specification text, Order code, Related products



EM-TRF



- ① Primary fuse
- ② Connection terminals for supply voltage
- ③ PCB plug connector to connect the module to the main PCB

| | |
|------------------------------|---|
| Supply voltage | 230 V AC \pm 10 %, 50/60 Hz |
| Power consumption | up to 40 VA for a controller with all expansion modules; up to 35 VA for a fume cupboard controller with control panel; up to 33 VA for a room controller with control panel; up to 29 VA for a room controller without control panel; up to 9 VA for an EASYLAB adapter module TAM |
| Primary fuse | 50 mA slow blow, 250 V |
| Double-stack terminal blocks | Cable cross-section up to 2.5 mm ² |
| Operating temperature | 0 – 50 °C |
| IEC protection class | I (protective earth) |
| Protection level | IP 20 |
| EC conformity | EMC to 2004/108/EU, low voltage to 2006/95/EU |
| Weight | 1.3 kg |

Expansion module for the EASYLAB base component (controller TCU3 or adapter module TAM) that can be directly connected to a 230 V AC supply voltage. The expansion module includes a transformer whose secondary voltage (24 V) is equal to the supply voltage for the controller and the expansion modules connected to it.

Special characteristics

- Ready for installation, can be easily connected to the main PCB
- Double-stack terminal blocks for 230 V AC supply voltage connection
- Simple electrical connection of expansion module and EASYLAB main PCB using a connection plug
- Simple wiring of switch-operated fume cupboard lighting in combination with the EM-LIGHT expansion module

Technical data

- Supply voltage: 230 V AC \pm 10 %, 50/60 Hz
- Power consumption: up to 40 VA for a controller with all expansion modules; up to 35 VA for a fume cupboard controller with control panel; up to 33 VA for a room controller with control panel; up to 29 VA for a room controller without control panel; up to 9 VA for an EASYLAB adapter module TAM
- Double-stack terminal blocks: Cable cross-section up to 2.5 mm²
- Protection level: IP 20

- Any attachments are to be defined with the order code of the VAV terminal unit.
- Retrofit possible

ELAB / ... / T... / ...

EM-TRF

Installation details



Installation and commissioning

- As attachment for the EASYLAB base component: factory mounted
- For retrofitting: Mount the expansion module into the base casing
- The EASYLAB controller TCU3 or the adapter module TAM identifies the expansion module automatically