

FXV 006: Electric distributor for control signals



FXV006F001

Improving energy efficiency

Distributor for intelligent, energy-efficient controlling

Areas of use

Distribution of the power supply, the positioning signals and a shared time programme for room devices and thermal actuators.

Features

- Easy wiring of up to six zones in a radiant-panel heating system
- Forwards the switching pulses from single-room controllers
- Individual forwarding of time commands or night set-back to the appropriate actuators; max. two time channels
- Snap-on pump logic module for activating the circulation pump
- Integrated 4 A fuse, varistor as excess voltage protection for thermal actuators
- Easy and clear installation of all devices
- Connections for up to twelve thermal actuators

Technical data

Power supply		
Power supply		24 V~/230 V~, ±15%, 50...60 Hz
Distributor fuse		T4A, 5 x 20 mm
Parameters		
Circuits/zones		6
Time channels/reduction		2
Ambient conditions		
Admissible ambient temperature		-5...50 °C
Admissible ambient humidity		< 95% rh
Inputs/outputs		
Number of actuators		Max. 12 pcs. (2 per zone)
Pump connection		Max. 2.2 A
Structural design		
Weight		0.2 kg
Housing material		Fire-retardant plastic
Housing		Pure white (RAL 9010)
Screw terminals		For wires of up to 1.5 mm ²
Standards and directives		
Type of protection		IP 43 (EN 60529)
EMC directive 2004/108/EC		EN 61000-6-1/ EN 61000-6-2 EN 61000-6-3/ EN 61000-6-4
EMC Directive 2006/95/EC		EN 60730-1

Overview of types

Type	Properties
FXV006F001	Electric distributor for control signals

Accessories

Type	Description
0374381001	Two clamping brackets, for fitting on top-hat rail EN 60715 35 x 7.5 mm or 35 x 15 mm
0374382001	Strain-relief caps, 9 pieces for cable Ø 6...13 mm and 6 pieces for Ø 3...7 mm
0374383001	Insertable pump logic module 24 V~; for demand-led pump operation
0374383002	Insertable pump logic module 230 V~; for demand-led pump operation



Description of operation

The electric distributor is installed in the cabinet of the underfloor-heating distributor and serves as a distributor for the power supply, for the individual positioning signals and for a shared time programme (max. 2 channels). It forwards the room controller command or time command to the thermal actuators.

Terminals A and B serve as time channels for decreasing the defined temperature. The two channels can be separated into two additional channels by removing the null resistance. The time programme can be defined either using an NRT 101 F111 or via an external timer. The corresponding connection can be used to reduce all the other zones depending on the time.

A pump can be activated directly via the terminals. The pump logic module (accessory) is used to activate the pump according to requirements. The pump starts operating as soon as an actuator is active. When "normally open" actuators are being used, terminals 4 and 5 must be used. The pump is switched off when the actuator is activated (the valve is closed).

An additional temperature limiter can be connected via the second terminal 1. This is used to switch off the pump (and thus the water circulation) if the water temperature is too high for some reason.

Intended use

This product is only suitable for the purpose intended by the manufacturer, as described in the "Description of operation" section.

All related product documents must also be adhered to. Changing or converting the product is not admissible.

Engineering and fitting notes

Outdoor installation:

We recommend protecting the devices from the weather if they are installed outside of buildings.

Standards and directives

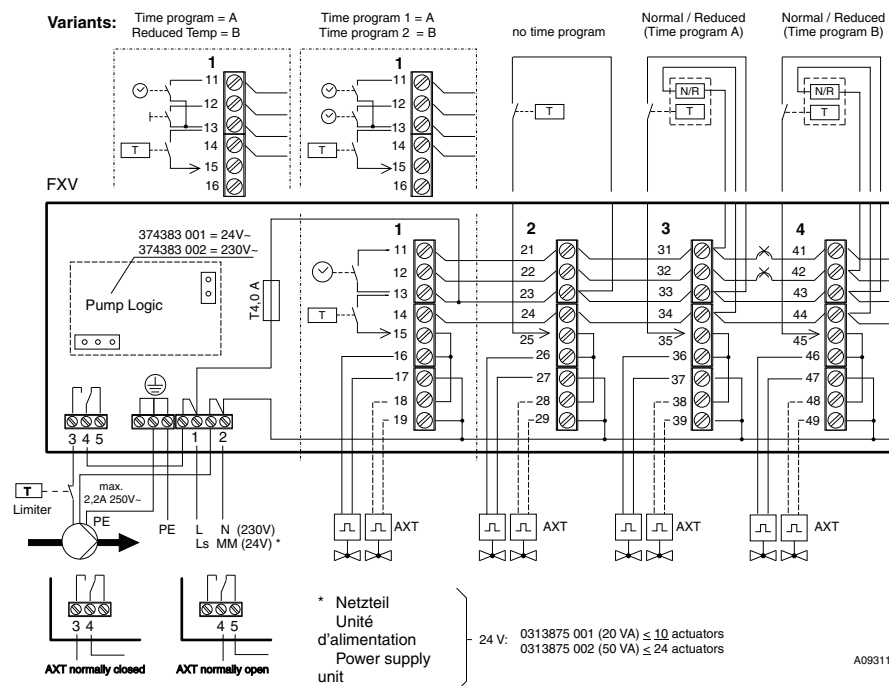
The electric distributor is tested to standards - the necessary EN standards are taken into account.

Disposal

When disposing of the product, observe the currently applicable local laws.

More information on materials can be found in the Declaration on materials and the environment for this product.

Connection diagram



A09311d

Dimension drawing

