



EK187

IP40

Multi-order thermostat

Technical properties

Architecture

Fixing mode Din-Rail

Functions

Function with frost protection function

Configuration

Switch mode change-over contact, usable as NC or NO

Number of modules 3

Main electrical features

Rated operational voltage Ue 230 V

Frequency 50/60 Hz

Voltage

Command voltage AC 230 V

Electric current

Acceptable current rating with AC1 2 A

Dimensions

Depth of installed product 64 mm

Height of installed product 85 mm

Length 64 mm

Width of installed product 52.5 mm

Width of rail mounted device (RMD) 3 modules

Max. distance for probe connection 50 m

Power

Power consumed 1.5 VA

Power consumption (operation) 1.5 VA

Total power loss under IN 1.5 W

Loss power at full load ≈ 1500 mVA

Power dissipation per coil 0.5 W

Endurance

Electric endurance in number of cycles 100000

Number of mechanical operations 200000

Measurement

Reduced temperature setting comfort temperature -2 to -8°C

Installation, mounting

Installation mode	for mounting on DIN rail
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Connection

Sensor cable length	max. 50 m
Conductor cross-section (flexible)	1...6 mm ²
Conductor cross-section (rigid)	1.5...10 mm ²
Number of contacts	1
Type of contacts	1 changeover
Type of connection	with screw terminals
Probe conductor cross-section (recommended)	1.5 mm ²

Settings

Comfort temperature setpoint	5 / 30 °C
Temperature range	5 / 30 °C

Equipment

Type of programmable thermostat	Analog
Amount of desired value	3
On/Off switch	No
Switching temperature difference	≈ 0.2 K
Number of temperature ranges	1
Probe type	fixed

Safety

Frost protection temperature setting	5 / 30 °C
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Use conditions

Operating temperature	-10...50 °C
Storage/transport temperature	-20...70 °C
Temperature	additional connection for external temperature sensor
Energy efficiency class	I (1%)

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Temperature	5...30 °C
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Identification

Ecodesign class	1
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Instructions

Information text	Sensor failure protection: In case of failure of the connection between sensor and control device the thermostat switches the heating on for 1 minute every 4 minutes.
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