



EK186

**IP40**

## Multi-range thermostat

### Technical properties

#### Functions

Function	with frost protection function ; 3 function options in case of sensor failure by wire jumper setting
Switching	with slide switch for selection of switching temperature difference

#### Configuration

Static differential	0,15< °C <3,43
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

#### Electric current

Acceptable current rating with AC1	2 A
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#### Dimensions

Depth of installed product	63 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

#### Length

Maximum connection distance between receiver and transmitter	50m
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#### 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

#### Power supply

**LED control**

LED	with control LED for On/Off
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**Installation, mounting**

Mounting type	din-Rail
Installation mode	for mounting on DIN rail

**Connection**

Connection cross-sect. flexible conductor	1 / 6mm <sup>2</sup>
Connection cross-sect. rigid cable	1,5 / 10mm <sup>2</sup>
Sensor cable length	max. 50 m
Conductor cross-section (flexible)	1...6 mm <sup>2</sup>
Conductor cross-section (rigid)	1.5...10 mm <sup>2</sup>
Type of contacts	1 changeover
Type of connection	with screw terminals
Type of connection	with screw
Probe conductor cross-section (recommended)	1.5 mm <sup>2</sup>

**Settings**

Comfort temperature setpoint	5 / 30 °C
Setting	with 2 potentiometers for setting of temperature and temperature range
Temperature range	-30 / +90°C
Switching temperature difference	≈ 0.15 / 3.43 K

**Equipment**

Type of programmable thermostat	Analog
Amount of desired value	1
Type of thermostat	thermostat
Heating	for heating or cooling mode
Number of temperature ranges	4
Probe type	universal
Type of probe	separated sensor

**Safety**

Frost protection temperature setting	-30 / 90 °C
RoHS conform	Yes

**Use conditions**

Operating temperature	-10...50 °C
Storage/transport temperature	-20...70 °C
Temperature	additional connection for external temperature sensor ; Selection between 4 temperature ranges: -30 °C ... 0 °C, 0 °C ... +30 °C, +30 °C ... +60 °C und +60 °C ... +90 °C
Energy efficiency class	I (1%)

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Temperature	-30...90 °C
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