

# ASKOSTAT IP 66

**1** 187A

Temperature compensated

# Electro-mechanical temperature control / frost protection controller

RAK722... RAK732...

In protective housing, with accessories for on-wall mounting, with head temperature compensation





### Registered under DM/066 622

Electro-mechanical temperature control acc. EN 14597 Electro-mechanical safety temperature limiter acc. EN 14597, fail-safe

#### **Application**

For the use in heat generator plants and other heating, ventilating and air conditioning applications. The device is mounted on a bracket for on-wall fixing.

#### **Features**

- Fail-safe, manual reset types, contact 1-2 will open in case of capillary failure (STL)
- Nominal value adjustable from 90 °C...110 °C (STL)
- If nominal value is reached, the change-over switch is activated (TC-function), or the limiter switches and stays locked in this position (STL-function)
- Reset is performed manually and is only possible after the sensing element is cooled off by approx. 25 ± 5 K (STL-function)
- With compensation of ambient temperature at switching head and capillary (KTK)
- Single-pole micro switch with change-over switch
- Time factor of sensing element acc. EN 14597
- Operation STL Type 2 BDFHKL acc. EN 14597
   Operation TL Type 2 B acc. EN 14597

#### Type summary

Туре		Order-no.	Range [°C]	Immersion length	
RAK722.0001A		011-7202.10	-550	1500mm	
RAK722.0015A		011-7203.10	1095	1000mm	
RAK722.0045A		011-7205.10	40130	1000mm	
RAK723.0046A	(STB)	011-7232.10	90110	1000mm	
RAK722.0/1974A*		011-7260.10	-550	1500mm	
* for mounting on ducts, see dimension drawing					

#### **Technical data**

Switching system

Switching capacity acc. VDE 0631

<ul> <li>Nominal voltage range</li> </ul>		24250 V~
- Nominal current range I	(TC)	NC 0.510 A, NO 0.56 A
	(STL)	NC 0.510 A, NO 0.5 A
Service live at nominal load	(TC)	min. 100'000 operation
	(STL)	min. 15'000 operation
Protection class	, ,	I acc. VDE 0631
Protection mode of housing		IP 66 acc. EN 60529

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Application range Adjustable cut-off temperature 9off

Thermal switching differential Ambient temperature on housing

Max. sensing element temperature (TC)

Temperature range +20 % 130 °C (STL) -25...+75°C

Ambient temperature for storage and transport

Calibration Calibration tolerance

 $\pm$  4 K (STL)

Head temperature compensation Time factor in water / in oil

(0-8) K0.035 K/K < 45 s / < 60 s

ceramic

copper

see "Type summary"

approx.  $4.0 \text{ K} \pm 2.0 \text{ K}$ 

max. 70°C (T70)

Specification Switching head support (basic insulation)

Capillary Sensing element Diaphragm

copper stainless steel

Housing socket Polyamide reinforced (PA), temperature stability up to 120°C

Housing cover Polycarbonate (PC),

Electrical connection Earth connection screw terminals

Cable bushing Weight without packaging and accessories

temperature stability up to 120°C screw terminals

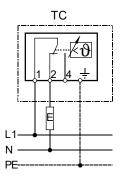
M20

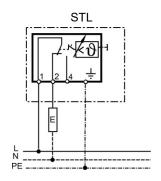
approx. 255 gr.

# Fitting notes

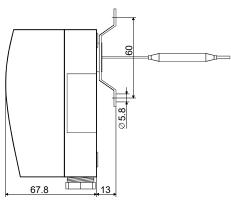
See the mounting instructions inside the package

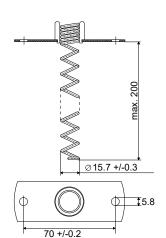
## Wiring diagram

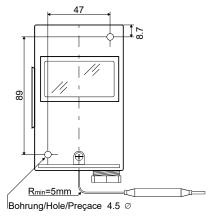




#### **Dimension drawing**







Socle 005-1054 Cover 005-0551.3 Protection spring 005-0591 Mounting bracket 005-0412

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