ASKOMA

ASKOSTAT IP 54

1 188M

Not temperature compensated

Electro-mechanical temperature control / safety temperature limiter

RAM742…
RAM743…

in protective housing, for mounting on pipes

Registered under DM/066 622

Electro-mechanical temperature control / safety temperature limiter

Application

For the use in heat generator plants and other heating, ventilating, and air conditioning applications. The device is mounted on a pipe by means of a bracket.

Features

- Fail-safe, manual reset types, contact 11-12 will open in case of capillary failure (STL)
- Nominal value irreversibly adjustable from higher to lower temperature (STL)
- Nominal value of TW / TB variably adjustable, non fail-safe type
- If nominal value is reached, the change-over switch is activated (TW-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. 20 K (STL / TB-function)
- With compensation of ambient temperature (TW) at switching head and capillary (KTK)
- Single-pole micro switch with change-over switch
- Time factor of sensing element acc. EN 14597
- Operation type TW Type 2 B acc. EN 14597
- Operation type TB Type 2 B acc. EN 14597
- Operation type STL Type 2 BDFHKL acc. EN 14597

Type summary

Type	*Order-no.*	*Range [°C]*	*Function*
RAM742.000M	011-4451.10	-10…50	TW
RAM742.001M	011-4452.10	15…95	TW
RAM742.003M	011-4454.10	40…120	TW
RAM742.004M	011-4455.10	50…130	TW
RAM742.0/1982M	011-4472.10	5…65	TW
RAM743.404M	011-4482.10	130/120/110/100/95	STL
RAM743.0/3345M	011-4492.10	20…60	TB
RAM743.0/3346M	011-4493.10	50…130	TB

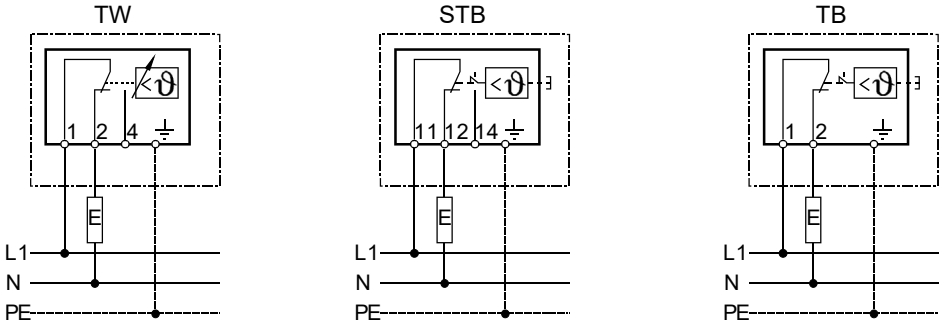
Technical data

Switching system	Switching capacity acc. VDE 0631		
	- Nominal voltage range		40...250 V~
	- Nominal current range I (I_M)	(TW / TB)	0.5…16(2.6) A
		(STL)	0.5…10(6.0) A
	Service live at nominal load	(TW)	min. 100‘000 operation
	Service live at nominal load	(TB)	min. 10‘000 operation
	Service live at nominal load	(STL)	min. 15'000 operation
	Protection class		I acc. VDE 0631
	Protection mode of housing		IP66 acc. EN 60529
Application range	Adjustable cut-off temperature ϑ_{off}		see “Type summary”
	Thermal switching differential		approx. 4.0 K ± 2.0 K
	Ambient temperature on housing		max. 70 °C (T70)
	Max. sensing element temperature	(TW / TB)	120…200 °C
	Max. sensing element temperature	(STL)	180 °C
	Ambient temperature for storage and transport		-25...+75 °C
Calibration	Calibration tolerance	(TW / TB)	± 4 K
	Calibration tolerance	(STL)	(0-9) K
	Calibrated for ambient temperature	(TW / TB)	23 ± 2 °C (Tu23 acc. EN 14597)
	on switching head and capillary	(STL)	37 ± 2 °C (Tu37 acc. EN 14597)
	Time factor in water / in oil		<45 s / <60 s
Specification	Switching head support (basic insulation)		ceramic
	Capillary		stainless steel
	Sensing element		copper
	Diaphragm		stainless steel
	Housing socket		Polyamide reinforced (PA), temperature stability up to 120 °C
	Housing cover		Polycarbonate (PC), temperature stability up to 120 °C
	Electrical connection		screw terminals
	Earth connection		screw terminals
	Cable bushing		M20
	Weight without packaging and accesories		approx. 255 gr.

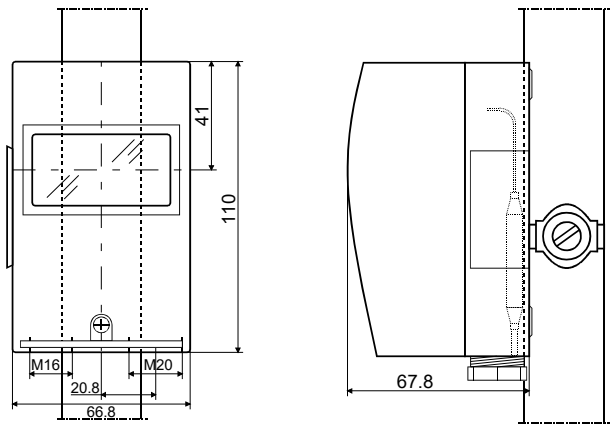
Fitting notes

See the mounting instructions inside the package.

Wiring diagram



Dimension drawing



Socket	005-1054
Cover	005-0551.3
Clamping band	005-0556