

Data sheet



RKP111A...

Application

Electronic temperature controller for the use in heat-producer-installations and other applications of heating, ventilation and air-conditioning.

Characteristics

- Easy handling
- Small dimensions
- Stable setpoint within operation temperature range
- 2 output relay with reciprocal bolting contact sided
- Operation condition informations by LED for power supply and output signal

Technical data

	Power supply	230VAC +10%/-15%, 50Hz
	Power consumption	Max. 3VA
	Low-voltage part	Protection isolated
Relay outputs	Rated output voltage	24..250VAC/20..300VDC
	Rated output current	0.05..4(4)A cos φ ≥ 0.6
	Lifetime	Min. 100'000 cycles
Settings	Setting range setpoint	Double scaled 0..60°C/60..120°C
	DIP-switches: setpoint	DIP1 OFF 0.60°C / DIP1 ON 60..120°C
	proportional range Xp	DIP2 OFF ±20K / DIP2 ON ±10K
	neutral zone Nz	DIP3 OFF ±3.0K / DIP3 ON ±1.5K
	mixing valve operating time	DIP4 OFF ≥30s / DIP4 ON ≥ 60s
Sensor	Sensor type	Pt1000 class B (DIN EN60751)
	Measuring range	-20..140°C
	Sensor tube	High-grade steel
	Time constant in water, incl. imm. pocket	< 45s
Calibration	Accuracy	< ±1K
	Influence of surrounding temperatures	< ±1K
Design	Case ground	PA (reinforced), temperature resistant up to 120°C
	Case top	ABS, with view window (PC), temperature resistant up to 80°C
	Immersion pocket immersion length	100mm
	Electric connection	Screw terminals 2.5mm ²
	Wire screw terminals	PG11
	Weight without package and imm. pocket	230g

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Temperature controller with 3-points output

ELESTA
energy control

Technical data (continued)

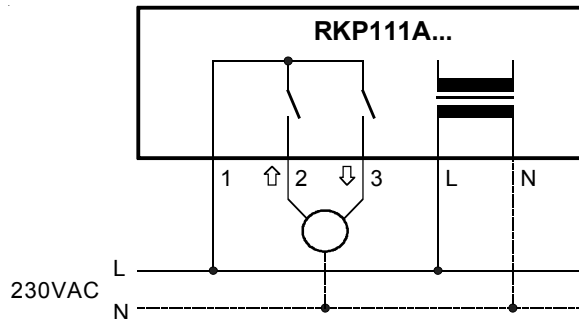
Environment	Operation: case	0..50°C (T50)
	safety tube temperature	-20..+140°C
Standards	humidity	Class F according to DIN40040
	Storage and transportation	-20..+60°C
Standards	CE conformity	Standards 89/336/EWG, 93/68/EWG
	EMC noise emission	EN50081-1/EN55022B
	EMC noise immunity	EN50082-2/EN60730
	Product	EN60730-1/-2...-9
	Mode of operation	Type 1C (EN60730-1/-2...-9)
	Protection class	II according to EN60730
Protection mode	IP54 according to EN60529	

Installation

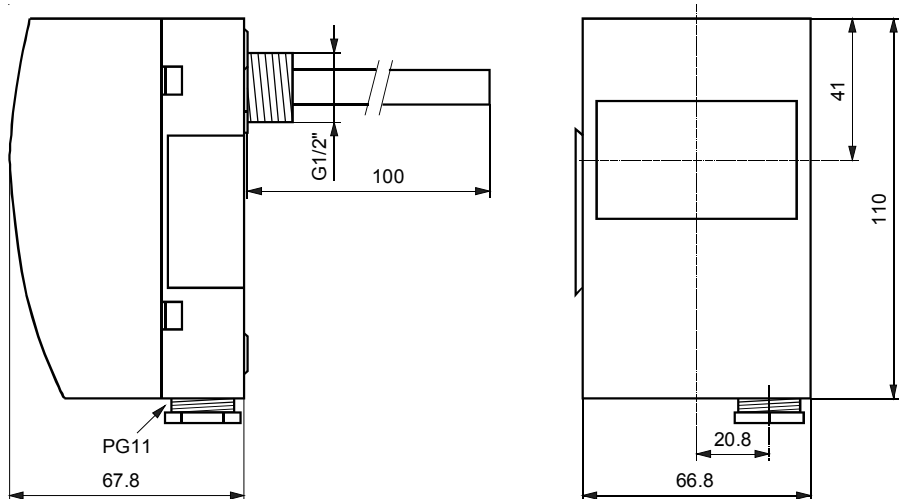
See installation advice in package

The choice of the protection tube material is depending on the application (medium, tank material, etc.) and must be made by the user.

Connection diagram



Dimensions (mm)



Delivery

RKP111A001	Immersion temperature controller incl. immersion pocket made of brass (immersion length 100mm)
RKP111A002	Contact mounting temperature controller incl. sensor, without immersion pocket
RKP111A003	Wall mounting temperature controller without sensor and immersion pocket

Accessories

RZB070	Mounting bracket for DIN rails or wall mounting
RZB071	Clamps for DIN rails with screws

