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Made in Czech Republic 02-208/2016 Rev.: 2

TD44

TEV-4

Thermostat

Connection

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Characteristics

- single exteriors thermostat for monitoring and regulation of temperature in demanding enviroments (humid and contaminated, agressive and defective, industrial workshops, washing rooms, green-houses, cellars and cooling boxes...)
- external version in IP65, box for mounting on the wall
- built-in thermo-sensor is integrated in the device
- two fuctions adjustable by jumper: heating and cooling
- 3 adjustable (by jumper) ranges of temperature, and fine adjustment through potentiometer
- 3 adjustable (by jumper) levels of hysteresis
- supply voltage 230 V AC
- potentialless NO contact 12 A AC1 switching

Note: Device is supplied with jumper L-15 (3-wire connection). For the correct function of device is neccesary sensor-side down device mounting.

Attach the device with a suitable bonding material based to the substrate (eg round head screw, Ø 4 mm / 0.2", min. Length 30 mm / 1.2").





Description



- ✤ Cooling
- ₩ Heating
- 1. Cable gommet M16x1.5 for cable max. Ø 10 mm / 0.4″
- 2. Adjustable range setting (°C)
- 3. Hysteresis (°C)
- 4. Hole for mounting on the wall
- Ø 4.3 mm / 0.2″ 5. Function setting
- 6. Slight setup finish in the frame of range
- 7. Temperature sensor

Type of load	 cosφ≥0.95 AC1	-M- AC2	AC3	≠〕≢ AC5a uncompensated	「日本」 「日本」 AC5a compensated	AC5b	AC6a	 AC7b	 AC12
Mat. contacts AgSnO ₂ , contact 12A	250V / 12A	250V / 3.7A	250V / 2.2A	230V / 2.2A (510VA)	230V / 2.2A (510VA) to max. input C=14uF	1120W	х	250V / 2.2A	250V / 7.5A
Type of load][]][]]	 AC14	 	- <u></u>	- <u>M</u> -	- <u>M</u> -		 DC13	 DC14
Mat. contacts AgSnO ₂ , contact 12A	250V / 4.5A	250V / 4.5A	250V / 4.5A	24V / 12A	24V / 3A	24V / 3A	24V / 12A	24V / 1.5A	24V / 1.5A

ΕN

Technical parameters

	RHV-1				
Supply					
Supply terminals:	 L - N				
Supply voltage:	AC 230 V / 50 - 60 Hz				
Tolerance of supply voltage:	- 15% +10%				
Input (apparent / loss):	max. 6 VA / 0.7 W				
Function	setting by jumper J3				
- *:	cooling				
- \\\:	heating				
Temperature setting	by jumper J2				
- range 1:	-30 °C to 0 °C (-22 °F to 32 °F)				
- range 2:	0 °C to +30 °C (32 °F to 86 °F)				
- range 3:	+ 30 °C to +60 °C (86 °F to 140 °F)				
Slight temperature setting:	potentiometer				
Hysteresis	0.5 / 1.5 / 4 °C (32.9 / 34.7 / 39.2 °F)				
Hysteresis setting:	by jumper J1				
Output					
Output contact:	1 x NO- SPST (AgSnO ₂)				
Rated current:	12 A / AC1				
Switching output:	3000 VA / AC1, 384 W / DC				
Peak current:	30 A / < 3 s				
Switched voltage:	250 V AC / 24 V DC				
Mechanical life:	3 x 10 ⁷				
Electrical life:	0.7 x 10 ⁵				
Other information					
Operation temperature:	-30 °C to +65 °C (-22 °F to 149 °F)				
Storing temperature:	-30 °C to +70 °C (-22 °F to 158 °F)				
Electrical strengh:	4kV (supply-output)				
Operation position:	sensor-side down				
Protection degree:	IP65				
Overvoltage cathegory:	III.				
Pollution level:	2				
Max. cable size (mm ²):	max. 1x2.5, max. 2x1.5 /				
	with sleeve max. 1x2.5 (AWG 12)				
Suggested power-supply cable:	CYKY 3x 2.5 (CYKY 4x 1.5)				
Dimensions:	153 x 62 x 34 mm (6″ x 2.4″ x 1.3″)				
Weight:	148 g (5.2 oz.)				
Standards:	EN 60730-2-9, 61010-1				

Function



Warning

The device is constructed to be connected into 1-phase main and must be installed in accordance with regulations and norms applicable in a particular country. Installation, connection and setting can be done only by a person with an adequate electro-technical qualification which has read and understood this instruction manual and product functions. The device contains protections against over-voltage peaks and disturbing elements in the supply main. Too ensure correct function of these protection elements it is necessary to front-end other protective elements of higher degree (A,B,C) and screening of disturbances of switched devices (contactors, motors, inductive load etc.) as it is stated in a standard. Before you start with installation, make sure that the device is not energized and that the main switch is OFF. Do not install the device to the sources of excessive electromagnetic disturbances. By correct installation, ensure good air circulation so the maximal allowed operational temperature is not exceeded in case of permanent operation and higher ambient temperature. While installing the device use screwdriver width approx. 2 mm. Keep in mind that this device is fully electronic while installing. Correct function of the device is also depended on transportation, storing and handling. In case you notice any signs of damage, deformation, malfunction or missing piece, do not install this device and claim it at the seller. After operational life treat the product as electronic waste.