EAN code
TER-3A: 8595188138390
TER-3B: 8595188138406
TER-3C: 8595188138413
TER-3D: 8595188138420
TER-3G: 8595188138451
TER-3H: 8595188138468

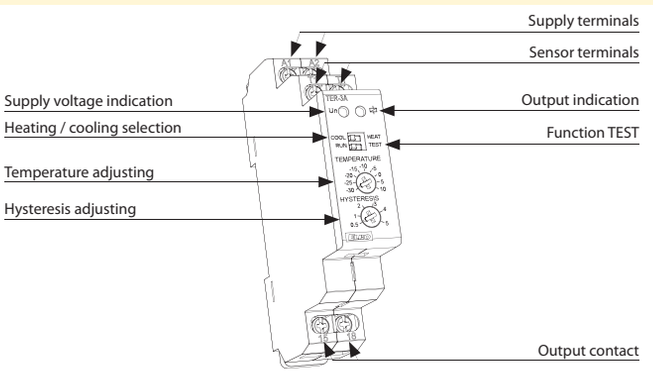
Technical parameters	TER-3
Function:	single level
Supply terminals:	A1-A2
Voltage range:	AC/DC 24 - 240V (galvanically unseparated) (AC 50-60Hz)
Burden:	2 VA
Operating range:	- 15 %; + 10 %
Measuring circuit	
Measuring terminals:	T1 - T1
Temperature range: (according to product type sensitivity)	TER-3A -30 °C to 10 °C (-22 °F to 50 °F); TER-3B 0 °C to 40 °C (32 °F to 104 °F); TER-3C 30 °C to 70 °C (86 °F to 158 °F); TER-3D 0 °C to 60 °C (32 °F to 140 °F); TER-3G 0 °C to 60 °C (32 °F to 140 °F); TER-3H -15 °C to 45 °C (5 °F to 113 °F)
Hysteresis:	ajustable in range 0.5 to 5°C / 0.9 to 9 °F
Sensor:	external, thermistor NTC, except for TER-3G (Pt100)
Sensor fault indication (short circuit / disconnect):	flashing red LED
Accuracy	
Setting accuracy (mech.):	5 %
Switching difference:	0.5 °C / 0.9 °F
Temperature dependance:	< 0.1 % / °C (< 0.1 % / °F)
Output	
Number of contacts:	1x NO-SPST ($AgSnO_2$)
Current rating:	16A / AC1, 10A / 24V DC
Breaking capacity:	4000 VA / AC1, 300 W / DC
Switching voltage:	250 V AC1 / 24 V DC
Output indication:	red LED
Mechanical life:	$3x10^7$
Electrical life (AC1):	$0.7x10^5$
Other information	
Operating temperature:	-20 °C to 55 °C (-4 °F to 131 °F)
Storage temperature:	-30 °C to 70 °C (-22 °F to 158 °F)
Electrical strength:	2.5 kV (supply - output)
Operating position:	any
Mounting:	DIN rail EN 60715
Protection degree:	IP40 from front panel / IP10 terminals
Overvoltage category:	III.
Pollution degree:	2
Max. cable size (mm^2):	solid wire max. 2x 2.5 or 1x 4 with sleeve max. 1x 2.5 or 2x 1.5 (AWG 12)
Dimensions:	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)
Weight:	73 g (2.6 oz.)
Standards:	EN 60730-2-9, EN 61010-1

Example of an order

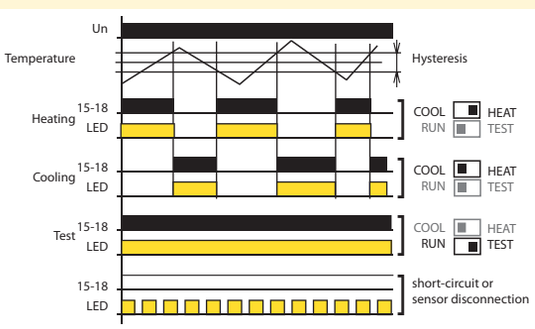
Please specify a type of thermostat in your order (TER-3A, TER-3B .. or TER-3H) types differ in temperature range and supply voltage.

- Single thermostat for temperature monitoring and regulation in range -30 °C to +70 °C (-22 °F to 158 °F) in six ranges.
- It can be used for monitoring temperature e.g. in switchboards, heating systems, cooling systems, liquids, radiators, motors, devices, open spaces, etc.
- Function of short-circuit or sensor disconnection monitoring.
- Possibility to set function "heating"/"cooling" (setting is done by DIP switch).
- Adjustable hysteresis (sensitivity), switching by potentiometer in range 0.5 to 5 °C / 0.9 to 9 °F
- Choice of external temperature sensors with double insulation in standard lengths 3, 6 and 12 m (9.8´,19.7´ and 39.4´).
- It is possible to place sensor directly on terminal block - for temperature monitoring in a switchboard or in its surroundings.
- Multivoltage supply AC/DC 24 -240 V, not galvanically separated.
- Output contact 1x NO - SPST 16 A /250 V AC1.
- Red LED indicates status of output, green LED indicates energization of the device.
- 1-MODULE, DIN rail mounting.

Description

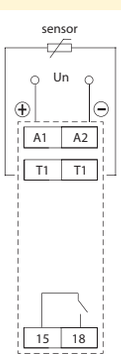


Function



It is a single but practical thermostat with separated sensor for monitoring temperature. Device is placed in a switchboard and external sensor senses temperature of required space, object, or liquid. Supply is not galvanically separated from sensor. Sensor is double insulated. Maximal length of delivered sensor is 12 m / 39.4´. device has in-built indication of sensor damage, which means that in case of short-circuit or disconnection red LED flashes. Thanks to adjustable hysteresis, it is advantageous to regulate width of the range and thus define sensitivity of load switching. Sensed temperature is decreased by set hysteresis. When installing it is necessary to keep in mind that hysteresis is increased by temperature gradient between sensor's jacket and thermistor.

Connection



Symbol