ROOM THERMOSTATS FOR FAN COIL WITH
2 PROPORTIONAL OUTPUTS FOR 4- PIPE SYSTEM
AND HEATING RELAY OUTPUT WITH ECONOMY FUNCTION

DB-TA-3A8..A

FUNCTION

Temperature control in heating, ventilation, refrigeration and air conditioning for tipically 4- pipe fan coil systems with proportional valves.
- 1 heating relay output
- 2 proportional outputs 0…10 Vdc with dead zone
- manual selection of On/Off, 3 fan speeds
- economy function

The thermostat is provided with a LCD display and keys +/- for parameters setting like the range, the neutral zone, proportional heating and cooling bands and economy mode. When the thermostat is on the fan is on at the speed selected manually and the proportional outputs are set according to parameters setting. The relay is activated if heating function is required when the maximum heating voltage output has been reached but not the temperature required.
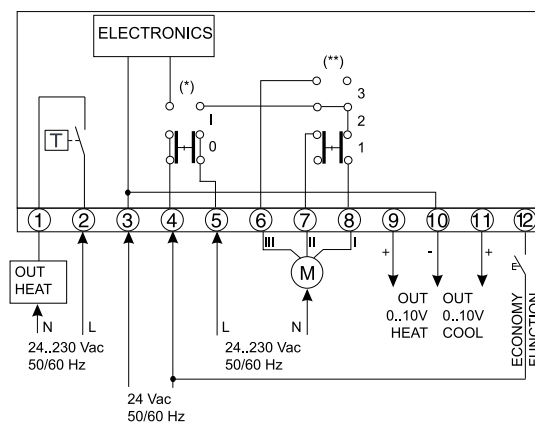In addition an economy function is available with a remote contact. When the contact is closed the thermostat works with an economy mode.

TYPE	ON/OFF	3- SPEED	DEAD ZONE K
DB-TA-3A8-13A	•	•	1...4
DB-TA-3A8-03A		•	1...4
DB-TA-3A8-10A	•		1...4
DB-TA-3A8-00A			1...4

TECHNICAL FEATURES

Power supply:	24 Vac ± 10%, 50/60 Hz
Input:	external contact for economy function
Outputs:	valves: 2 prop. outputs 0...10 Vdc (R_L > 10 kOhm)
	1 relay 6 A 250 Vac
	speeds: 6 A at 24...230 Vac ±10%, 50/60 Hz
Power cons.:	1 W
Sensor:	NTC 10K
Range:	+5...+30 °C
Differential:	0.4 K (relay)
Prop. band:	± 0,5...± 2,5 K
Economy:	adjustable range between +5...+30 °C
Display:	resolution 0.1 °C
Working:	0...+40 °C
	10...90% r.h. (non condensing)
Storage:	-20...+70 °C
	< 95 % r.h.
Housing:	ABS self-extinguished according to UL94 V-0 color (RAL 9010)
Protection class:	IP30, class II
Size:	144 x 82 x 34 mm
Weight:	220 g

ELECTRICAL WIRING

ECONOMY FUNCTION contact closed: economy function selected
ECONOMY FUNCTION contact opened: economy function not selected

(*)   only for models DB-TA-3A8-13A, DB-TA-3A8-10A
(**)   only for models DB-TA-3A8-13A, DB-TA-3A8-03A

Logic of proportional output

Logic of operating relay

Tset centered in BP heating

Tset centered in neutral zone

ZN	neutral zone
PBH	proportional heating band
PBC	proportional cooling band