3-POINT ROOM CONTROLLERS WITH AUTOMATIC SEASON CHANGEOVER   DB-TA-367

FUNCTION

3-point valve control on 2-pipe fan coil for room temperature applications with:
- knob adjustment min/comfort/max;
- 2 outputs for the valve (opening and closing);
- proportional band adjustable by jumper;
- manual selection of 3 motor speeds and thermostatic fan/continuous fan/off;
- automatic season changeover;

- minimum thermostat (optional);
- internal or remote temperature sensor (optional);
- setting of the system response time.
- setting if valve stroke time (selectable by jumper): 60, 90, 120 or 180 s.

TYPE	VT/VC/OFF	3-SPEED	LOCAL S/W
DB-TA-367-439	•	•	auto

auto   season changeover selection (S/W) by air sensor

Note: The controllers are supplied with water sensor model: NTA020-027P.

On request:
optional remote 2 m cable sensor, selectable by jumper; ordering code: NT0220-NTC10-02.

TECHNICAL DATA

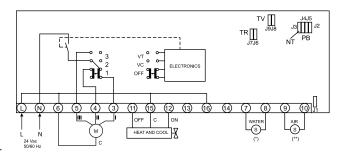|	
Power supply:	24 Vac ± 10%, 50/60 Hz
Max load:	5 triac 24 Vac
	valves: max 0.5 A, min 0.025 A
	speed: max 1 A, min 0.040 A
Power cons.:	1 W
Sensor:	NTC 10K
Setpoint:	summer: +24 ± 5 °C
	winter: +20 ± 5 °C
	mechanical limitation of the setpoint adjustment
Prop. band:	1...10 K
Working:	0...+40 °C
	10...90% r.h. (without condensing)
Storage:	-20...+70 °C
	< 95 % r.h.
Housing:	ABS fireproof according to UL94 V-0 color (RAL 9010)
Protection:	IP30, class II
Size:	144 x 82 x 34 mm
Weight:	210 g

WIRING DIAGRAM

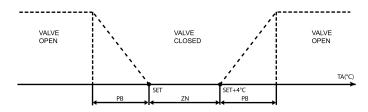Terminal connections for 2-pipe air conditioning and heating systems.

N.B.   to connect loads with 230 Vac use auxiliary relays.

(*)   water sensor as minimum temperature thermostat with minimal threshold at 30 °C (optional)
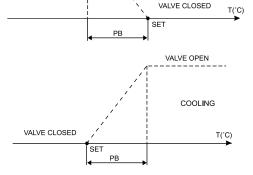(**)   remote sensor (optional)

Season changeover selection

TA   air sensor temperature

Logic of output

Jumper setting:

- TV = opening valve time
- TR = response time of the unit
- PB = proportional band
- NT = do not modify
- J1 open = remote sensor
- J1 closed = internal sensor

The products are factory supplied with TV = 60 s, TR = 90 s, BP = 4 °C and internal sensor.

J7	J6	TR s
0	0	90
0	1	120
1	0	150
1	1	180

J9	J8	TV s
0	0	60
0	1	90
1	0	120
1	1	180

J4	J5	J2	BP °C
0	0	0	1
0	0	1	2
0	1	0	3
0	1	1	4
1	0	0	5
1	0	1	6
1	1	0	7
1	1	1	8