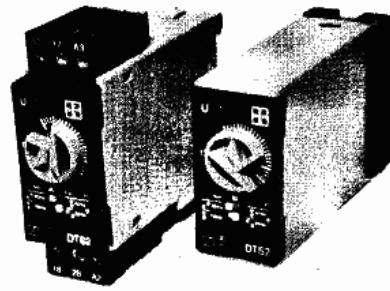


# Time relays Series *trend* DTS2X/DTS2V

- compact dimensions
- 2 switchable star times
- 4 switchable changeover times
- 3 voltages per unit

approvals:



S star- delta

## Technical Data:

**Supply voltages:**  
Dual voltage: 24VAC/DC and 230 VAC,  
24VAC/DC and 110VAC  
selected via link

**Nominal power consumption:**  
24V approx 1 VA  
110V approx 4 VA  
230V approx 8 VA

**Acceptable voltage variation:** 24V...0,85 to 1,1  $U_N$   
110V...0,85 to 1,1  $U_N$   
230V...0,8 to 1,15  $U_N$

Frequency range 45-63 Hz  
Duty cycle 100% IEC class 1c

**Environmental conditions:**  
Permissible ambient temperature: -25°C to +55°C  
HVF climatic resistance to DIN 40040

**Accuracy:**  
Repetition accuracy under constant condition  
(as % of full range)  $\leq$  0,5 %  
Reset time approx 100 ms max.

**Mechanical data/specifications:**  
Enclosure in self-extinguishing plastic  
Type of protection IP 40  
To meet the ÖVE-standards for household-applications require a 0,68  $\mu$ F capacitor.

**Type of connections:**  
Type X: Terminals up to 4 mm<sup>2</sup> with protection against accidental contact.  
Type V: 11-pin plug-in base

**Dimensions and standards:**  
X: 45 x 22,5 x 65 mm (h x b x d)  
V: 45 x 22,5 x 78 mm (h x b x d)  
X: Mounting on DIN rails to DIN 46277/3  
(European standard: EN 50 0222)  
Connection via terminals up to 4 mm<sup>2</sup> with protection against accidental contact. Protection class IP20  
Protection against contact to VDE 0106 and VBG 4  
Terminal arrangement and connection markings according to DIN 46 199  
V: Mounting and connection via 11-pin screw or soldered plug.  
Fixing via retaining clip BU 370. Pin arrangement and connection markings according to IEC 67-1-18a

**Output stage:**  
1 changeover  
Max. switching voltage: 250 V AC, 125 DC  
Continuous current with resistive load: 5A max  
Contact life: 240 V, 5 A resistive  $\geq$  10<sup>6</sup> switching operations.  
Mechanical life:  $\geq$  20.10<sup>6</sup> switching operations.

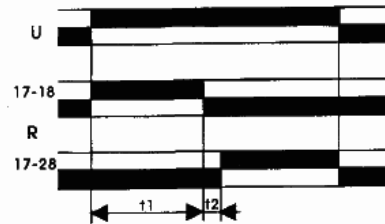
## Types:

DTS2X 24/230 V    DTS2V 24/230 V  
DTS2X 24/110 V    DTS2V 24/110 V

## Accessories:

Identification plate BS    Mounting plate MP  
DIP-switch cover DA3    Retaining clip BU 370  
Plug-in base TVE 12    Plug-in base TVE 11  
also see page 18

## Function diagram:

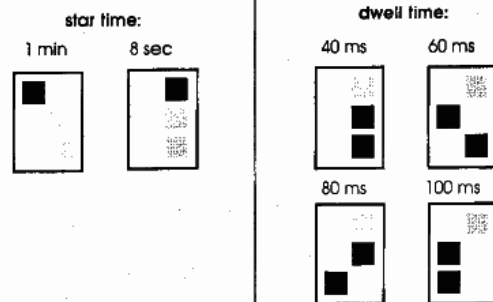


## Description of function:

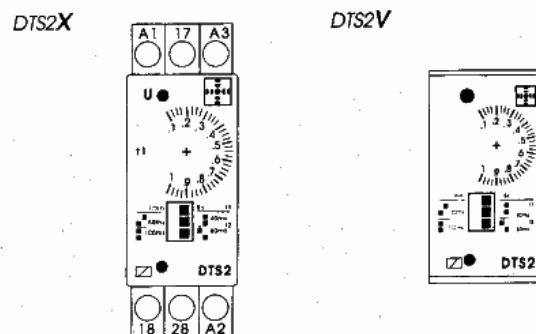
When the input voltage U is applied, the contact 17-18 (pin1-pin4) is closed and remains in operation for the set star start time t1. On expiry of time t1, the contact 17-18 (pin1-pin4) reopens and both contacts remain open for the dwell time t2. When time t2 has elapsed the contact 17-28 (pin1-pin4) is closed and remains in operation until the input voltage is removed from the unit.

If the input voltage is removed from the unit before the star start time has elapsed, the time already elapsed is cancelled and starts again at zero on the next cycle.

## Selection of time ranges:



## Front view



## Connection:

