

More information

5TT3185 multifunction timers

Setting aids

The period of the flashing of the green LED 1 when set for a timing interval is 1 s ± 4 %, which can therefore be used as a setting aid. This is particularly useful in the lower time setting range and for long delay times because of the accuracy of the multiplication factors between the individual time ranges.

Example:

Delay time to be set: 40 min.

Using the fine setting, this delay time can be set within the setting range 3 ... 300 min. However, in this case it takes a long time to check the time and requires several operational sequences in real time. To speed up the setting process, the setting range is switched to 0.03 ... 3 min. In this case, the required value corresponds to a delay time of 0.4 min (= 24 s). The timing interval is triggered and the potentiometer is set to 24 flashing periods of the yellow LED 2. The device is then set back to the setting range 3 ... 300 min and the setting process is completed.

Time operation interruption/time addition

For the functions AV, EW, IE, BI, the timing interval can be interrupted at any time by activating B1 (+) and continued again by removing the control voltage (time addition).

Control input B1

The functions RV, IF, AW, AV/RV can be controlled using the control input B1 (+) with potential against terminal A2. The auxiliary voltage of terminal A1 can be used for this purpose, as well as any other voltage within the range 12 ... 240 V AC/DC. The operation of parallel loads (e.g. contactors) from B1 (+) to A2 is also permissible. If voltage is simultaneously applied to the control input B1 (+) and A1 for the IF function, this triggers an output pulse with the set time interval  $t_1$ .

Control S1	Position Function switch	Contact	Timing Diagram	Possible time setting ranges t:
		$U_c$ A1-A2		0.02 ... 1 s
		$U_{St}$ B1-A2		0.06 ... 6 s
Response delay	AV ①	15-18 15-16		0.3 ... 30 s
Passing make contact function	EW ②	15-18 15-16		0.03 ... 3 min
Pulse generator, delayed	IE ③	15-18 15-16		0.3 ... 30 min
Flashing relay, starting with impulse	BI ④	15-18 15-16		3 ... 300 min
				0.3 ... 30 h
				3 ... 300 h
Control S2		A1-A2		
		B1-A2		
OFF-delay	RV ⑤	15-18 15-16		
Pulse shape	IF ⑥	15-18 15-16		
Passing break contact function	AW ⑦	15-18 15-16		
Response delay	AV/RV ⑧	15-18 15-16		
OFF-delay				

LED 1 green: Status display  
E1: Setting range adjuster  
LED 2 yellow: Switch position indicator  
Z: Fine adjuster for setting ranges  
E2: Function settings timing intervals

**Control S1**

**Contact S1**  
For the functions: response delay, passing make contact function, pulse generator delayed, clock generator – (start with pulse) – the timing interval is triggered by closing the switching contact S1.

**Control S2**

**Control contact S2**  
The functions: off-delay, pulse shape, passing break contact function, response and off-delay are triggered by continuous power supply over the control contact S2 between A1 and B1 (+).

**User interfaces**

- LED 1 Status display
- LED 2 Switch position indicator
- E1 Setting range adjuster
- Z Fine adjuster for setting ranges
- E2 Function settings for timing intervals

**Device displays**

- LED 1 Lights up if operational voltage is applied (green)
- LED 2 indicates the timing interval and state of the equalizing relay (yellow)

- Continuous light
- Off output relay not activated, no timing interval
- On output relay not activated, no timing interval
- Flashing light
- Short on, long off
- Output relay not activated, timing interval
- Long on, short off
- Output relay activated, timing interval

**Front view**

- LED 1 green: Status display
- LED 2 yellow: Switch position indicator

- E1: Setting range adjuster
- Z: Fine adjuster for setting ranges
- E2: Function settings for timing intervals