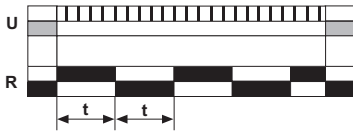


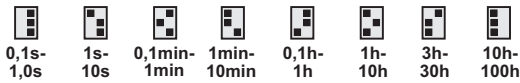
Symmetrical recycler

- Supply voltage on
- Supply voltage off
- Output relay contact closed
- Output relay contact open

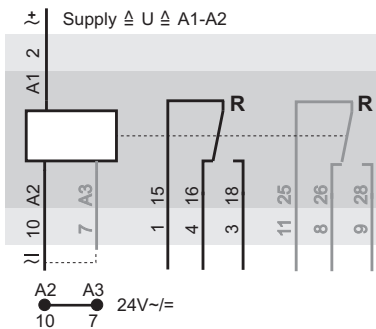


On the application of the supply voltage the output relay pulls in and timing period *t* starts. At the end of time *t* the output relay drops out and remains dropped out for a period equal to time *t*. An on-off action with a 1:1 time ratio continues until the supply voltage is removed when the time relay will reset ready for the next timing cycle. If the supply voltage is removed during an 'On' period the output relay will drop out immediately, the remaining time will be cancelled and the time relay resets ready for the next timing cycle.

Time ranges



The required delay time within the range selected is set using the potentiometer on the front plate.



TB

overview

- ◆ single or dual supply voltage options
- ◆ SPCO or DPCO output relay
- ◆ 8 selectable time ranges (0,1sec-100hrs)
- ◆ LED indicators for power supply and relay status
- ◆ 22.5mm DIN rail mount housing or 11pin plug in housing

specification

supply voltage variation	TB7x -15..+10%; rest -20..+10%		
frequency range	48 - 63 Hz		
max. delay time	100%		
repeat accuracy	< 1% of the selected range		
output spec. (EN60947-5-1)			
relay type	1	2	3
<i>I_e</i> AC-15 230V~	1,5A	1,5A	2,5A
<i>I_e</i> AC-15 115V~	1,5A	1,5A	2,5A
<i>I_e</i> DC-13 24V=	1,5A	1,5A	2,5A
<i>I_{th}</i> @+20°C, detached	8A	10A	10A
<i>I_{th}</i> @+60°C, attached	5A	5A	5A
expected life time			
mechanical operations	1x10 ⁷	1x10 ⁷	1x10 ⁷
electrical operations	8x10 ⁴	1x10 ⁵	15x10 ⁴
screws	pozidriv 1, slot 4mm		
screw tightening torque	0,4Nm		
operating conditions	-20 bis +60°C non condensing		

ordering information

part no	supply	output	relay type		housing types
TB01+	230V~/ 24V~=	6VA / 1W	DPCO	1	yes B
TB04+	115V~/ 24V~=	6VA / 1W	DPCO	1	yes B
DBR230+	230V~/ 24V~=	6VA / 1W	SPCO	3	yes A
DBR115+	115V~/ 24V~=	6VA / 1W	SPCO	3	yes A
TB08+	12V~=	0,7W	SPCO	2	yes A
TB12+	230V~	6VA	SPCO	2	yes A
TB13+	24V~=	1W	SPCO	2	yes A
TB15+	115V~	6VA	SPCO	2	yes A
TB41	230V~/ 24V~=	6VA / 1W	DPCO	1	no G
TB42	230V~/ 24V~=	6VA / 1W	SPCO	1	no G
TB71	230V~ w. transf.	2VA	DPCO	1	no G
TB72	230V~ w. transf.	2VA	SPCO	1	no G