

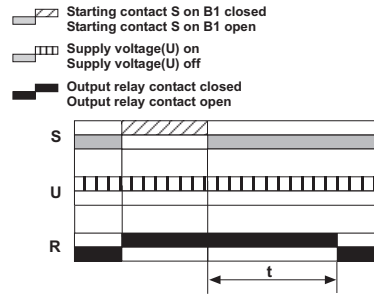
# TR

## 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



### Off delay



On the application of the supply voltage the time relay energises ready for the timing cycle. When the starting contact **S** is closed the output relay pulls in immediately. Time delay **t** starts when the starting contact is opened and the output relay drops out at the end of the time delay. If the supply voltage is removed before, or during time **t**, the output relay will drop out immediately and the time relay will reset ready for the next timing cycle.

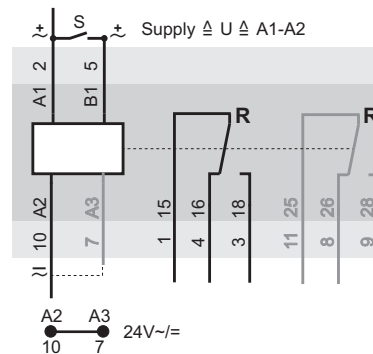
## specification

<b>supply voltage variation</b>	TR7x -15..+10%; rest -20..+10%	
<b>frequency range</b>	48 - 63 Hz	
<b>max. delay time</b>	100%	
<b>repeat accuracy</b>	< 1% of the selected range	
<b>output spec. (EN60947-5-1)</b>		
<b>relay type</b>	1	2
$I_o$ AC-15 230V~	1,5A	1,5A
$I_o$ AC-15 115V~	1,5A	1,5A
$I_o$ DC-13 24V=	1,5A	1,5A
$I_{the}$ @+20°C, detached	8A	10A
$I_{the}$ @+60°C, attached	5A	5A
<b>expected life time</b>		
mechanical operations	$1 \times 10^7$	$1 \times 10^7$
electrical operations	$8 \times 10^4$	$1 \times 10^5$
<b>screws</b>	pozidriv 1, slot 4mm	
<b>screw tightening torque</b>	0,4Nm	
<b>operating conditions</b>	-20 bis +60°C non condensing	

### Time ranges



The time ranges are selected using the DIP switch settings illustrated left, and the required delay time is set using the potentiometer on the front plate.



## ordering information

part no	supply	output	relay type	HIQUEL	housing type
TR01+	230V~/24V~=	6VA / 1W	DPCO	yes	B
TR04+	115V~/24V~=	6VA / 1W	DPCO	yes	B
TR08+	12V~=	0,7W	SPCO	yes	A
TR12+	230V~	6VA	SPCO	yes	A
TR13+	24V~=	1W	SPCO	yes	A
TR15+	115V~	6VA	SPCO	yes	A
TR41	230V~ / 24V~=	6VA / 1W	DPCO	no	G
TR42	230V~ / 24V~=	6VA / 1W	SPCO	no	G
TR71	230V~ w. transf.	2VA	DPCO	no	G
TR72	230V~ w. transf.	2VA	SPCO	no	G

other voltages on request

