



TCC-W

overview

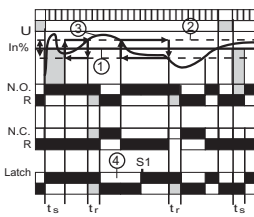


- ◆ AC or DC over or under current monitor with window function
- ◆ DPCO output max. 6A
- ◆ 3 measuring ranges 5mA - 10A RMS
- ◆ level and hysteresis adjustments
- ◆ programmable latch/no latch alarm
- ◆ LED indicators for power supply, contact and reaction timer
- ◆ 45mm DIN rail mount housing

Function

- Control relay active
- Control relay passive
- Contact closed
- Contact open

- ① Threshold "In"
- ② Hysteresis
- ③ Monitored current
- ④ Latch



ts... Start surge delay
tr... Reaction timer
T... LED indication reaction timer

On application of the supply voltage with N.O. Mode selected, the output relay pulls in and the timing period ts starts.

Current control with no latch (auto reset) function

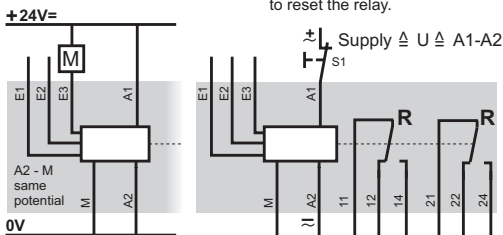
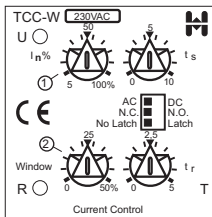
At the end of ts, if the measured current exceeds the window in either direction, timing period tr starts. At the end of tr, if the measurement still exceeds the setpoint the output relay changes over.

The output relay resets immediately, when the monitored current reaches the hysteresis set value.

Current control with latch (manual reset) function

At the end of ts, when the measured current exceeds the window in either direction, timing period tr starts. At the end of tr, if the measurement still exceeds the setpoint the output relay changes over and remains in this condition, even when the measured current reaches the hysteresis set value.

An external reset (S1) must be operated to reset the relay.



input	range	resistance	I _{EMAX} (20°C)
E1-M	5mA - 100mA	1,0 Ohm	1,5 A
E2-M	50mA - 1A	0,1 Ohm	3,5 A
E3-M	0,5A - 10A	0,01 Ohm	14 A

part no	supply	output	sup. galv. iso*	certification	housing types
TCC-W 230Vac	230V~ 2,5VA	DPCO	yes	yes	C
TCC-W 115Vac	115V~ 2,5VA	DPCO	yes	yes	C
TCC-W 24Vac	24V~ 2,5VA	DPCO	yes	yes	C
TCC-W 24Vdc	24V= 2W	DPCO	no	yes	C

* The measurement input is galvanically isolated from the power supply

specification

supply voltage variation	nominal voltage +10% / -15%
frequency range	48 - 63 Hz
duty cycle	100%
start surge delay	0 - 10s
reaction time	0 - 5s
reset time	< 100ms
output relay specification	max. 6A 230V~
Ue / Ie AC-15	120V/4A 240V/3A
Ue / Ie DC-13	24V/2A
expected life time	DPCO SPCO
mechanical	2 x 10 ⁶ resp. 1 x 10 ⁷ operations
electrical	1 x 10 ⁵ resp. 1 x 10 ⁵ operations
screws	pozidrive 1
screw tightening torque	0,6...0,8Nm
operating conditions	-20 to +60 °C non condensing

* EN 60947-5-1 VDE 0435

ordering information