

# TCC-H2

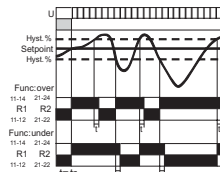
## overview

- ◆ AC or DC over or under current monitor
- ◆ 2 x SPCO output relays max. 6A, each independently configured over/under current
- ◆ 2 measuring ranges 0.25-5A and 0.5-10A RMS
- ◆ 2 separate switch points independently adjustable
- ◆ programmable latch/no latch alarm
- ◆ LED indicators for power supply, relay 1 (R1) and relay 2 (R2)
- ◆ 45mm DIN rail mount housing



### Function

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



Control relay for monitoring AC and DC voltage with two separately adjustable relay outputs.

Under or over current function can be set independently for R1 and R2 by DIP-Switch selection.

The trip point (Hyst) can be set independently for both R1 and R2 from 5-50% of the measured range.

At the end of  $t_r$ , the output relay changes when the measured current exceeds the set value of one of the trip points (Hyst). The time  $t_r$  is valid for both relays.

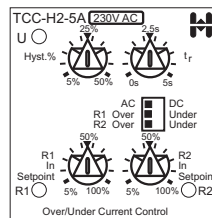
When the measured current returns to within the permitted range, the corresponding relay resets immediately.

Switch "AC-DC" is used to select AC or DC input.

upper threshold:  $[Y*(100+Hyst\%)]/100$

lower threshold:  $[Y*(100-Hyst\%)]/100$

$Y = (Z * \text{Setpoint}\%) / 100$   
 $Z = 5A \text{ or } 10A$



## specification

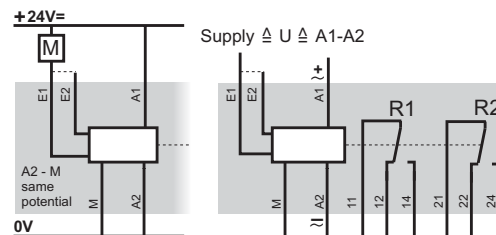
supply voltage variation	nominal voltage +10% / -15%
frequency range	48 - 63 Hz
duty cycle	100%
reaction time	0 - 5s
reset time	< 100ms
output relay specification	max. 6A 230V~
Ue/Ie AC-15	120V/4A 240V/3A
Ue/Ie DC-13	24V/2A
expected life time	SPCO
mechanical	5 x 10 <sup>6</sup> operations
screws	pozidrive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

\* EN 60947-5-1 VDE 0435

## ordering information

part no	supply	output	sup. galv. iso*	HIQUEL <sup>®</sup>	housing types
TCC-H2 5A 230Vac	230V~ 2,5VA	2 x SPCO	yes	yes	C
TCC-H2 5A 115Vac	115V~ 2,5VA	2 x SPCO	yes	yes	C
TCC-H2 5A 24Vac	24V~ 2,5VA	2 x SPCO	yes	yes	C
TCC-H2 5A 24Vdc	24V= 2W	2 x SPCO	no	yes	C

\* The measurement input is galvanically isolated from the power supply



input	range	resistance	I <sub>EMAX</sub> (20°C)
E1-M	0,25A - 5A	0,01 Ohm	7 A
E1 + E2-M	0,5A - 10A	0,005 Ohm	14 A



over/under current monitor with two switch points