

TCC-H2-5A-V2

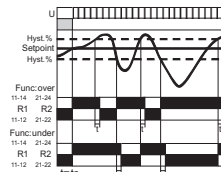
overview

- ◆ AC or DC over or under current monitor
- ◆ 2 x NO output relays, each independently configured over/under current
- ◆ 2 measuring ranges 0.25-5A and 0.5-10A RMS
- ◆ 2 separate switch points independently adjustable
- ◆ 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.

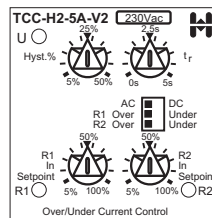
When the measured current returns to within the permitted range, the corresponding relay resets immediately.

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

upper threshold: $[Y \cdot (100 + \text{Hyst}\%)] / 100$

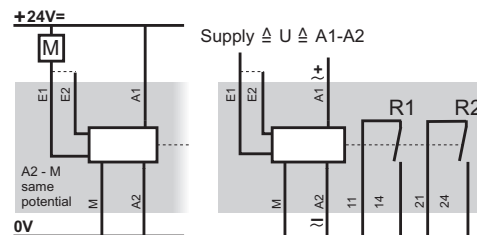
lower threshold: $[Y \cdot (100 - \text{Hyst}\%)] / 100$

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



specification

supply voltage variation	nominal voltage -15%...+10%
frequency range	48 - 63 Hz
duty cycle	100%
reaction time	0 - 5s
reset time	< 100ms
output relay spec. (EN 60974-5-1)	
I_o AC-15	230V~ 3A
I_o AC-15	115V~ 3,5A
I_o DC-13	24V= 2,5A
expected life time	No
mechanical	5×10^7 operations
electrical	1×10^5 operations
screws	pozidriv 1, slot 4mm
screw tightening torque	0,4 Nm
operating conditions	-20 to +60°C non condensing



input	range	resistance	I_{EMAX} (20°C)
E1-M	0,25A - 5A	0,01 Ohm	7 A
E1+E2-M	0,5A - 10A	0,005 Ohm	14 A

ordering information

part no	supply	output	sup. galv. iso*	CE	housing types
TCC-H2-5A-V2 230Vac	230V~ 2,5VA	2 x NO	yes	no	C
TCC-H2-5A-V2 115Vac	115V~ 2,5VA	2 x NO	yes	no	C
TCC-H2-5A-V2 24Vac	24V~ 2,5VA	2 x NO	yes	no	C
TCC-H2-5A-V2 24Vdc	24V= 2W	2 x NO	no	no	C

* The measurement input is galvanically isolated from the power supply

over/under current monitor with two switch points

