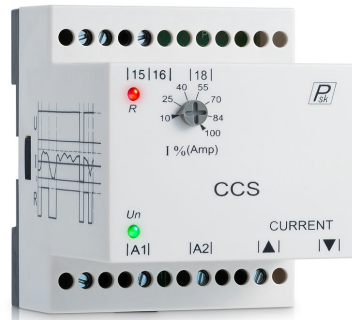


# CCS

## Under current control

- CONTROLS AC CURRENT
- 0.5A TO 10A MEASUREMENT RANGE
- THRESHOLD ADJUSTMENT
- 2 LED DISPLAY POWER SUPPLY PRESENCES AND RELAY STATUS



### Operating

Input voltage (U) is applied, AC current value being controlled is under threshold (I %) displayed on the front panel, output relay is de-energizes. output relay energizes immediately when the AC current crossing threshold (I %). A (3%) fixed hysteresis provides protection against power-line disturbance and other interference that can cause spurious triggering of the output relay. A red LED indicated the state of the relay LED "ON" = relay energizes.

### General specifications

- Protection class open air: IP20
- Self-extinguishing plastic housing UL V0 acc IEC 529
- Mounting position: on DIN-rail TS 35 according to EN 50022
- Mounting position: vertically
- Supply voltage: Refer to table below
- Supply tolerance:  $\pm 10\%$
- Incoming Supply terminals: A1 (+) – A2 refer to table below.
- Rated power consumption: 2 VA
- Rated frequency for as voltage: 48 to 63 Hz
- Duty cycle: 100%
- Display accuracy:  $\pm 10\%$  of preselected threshold
- Repeating accuracy:  $\pm 0.3\%$  with constant parameters
- Timing on downward crossing of threshold (T1): 1 to 10 sec.
- Response time: 500ms
- Terminal : acc IEC 60947-7-1, IEC 60998-1
- Terminal Capacity:  $1 \times 4 \text{mm}^2$  without multicore cable end  
 $1 \times 0.5$  to  $2.5 \text{mm}^2$  with/without multicore cable end

### Display

- Power on: LED green (Un) Indicates of supply voltage
- Relay energized: LED red (R) indicates of relay energized.

### Output circuit

- Relay: 1 C/O
- Rated voltage: 250 Vac
- Switching capacity ac: 1000 VA (8A / 250V)  $\text{COS } \Phi = 1$
- Switching capacity dc: 3 A 30 Vdc
- Max switching capacity ac: 10 A
- Mechanical life:  $1 \times 10^6$  operations
- Electrical life at 1000 VA  $\text{COS } \Phi = 1$ : 200.000 operations

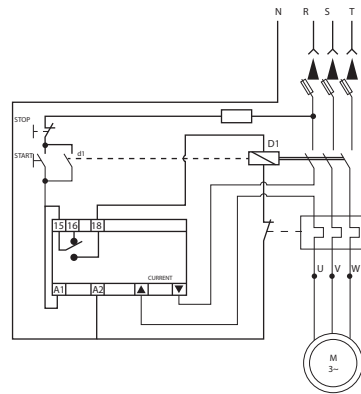
### Environmental conditions

- Permissible ambient temperature:  $-25^\circ\text{C} \dots +55^\circ\text{C}$
- Storage temperature:  $-25^\circ\text{C} \dots +70^\circ\text{C}$
- Transport temperature:  $-25^\circ\text{C} \dots +70^\circ\text{C}$
- Relative humidity (acc. IEC 721-3-3 CLASS 3K3): 15% to 85%
- Vibration resistance (acc. IEC 68-2-6): 10 TO 55 H

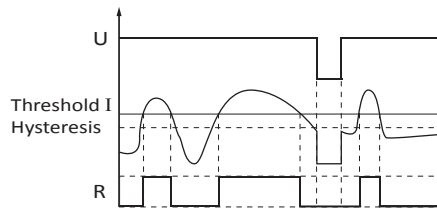
### Dimensions & weight

- Width: 62 mm
- Height: 65 mm
- Depth (excl. DIN-profile): 73 mm
- Weight: 225 gram

### Connections



### Function



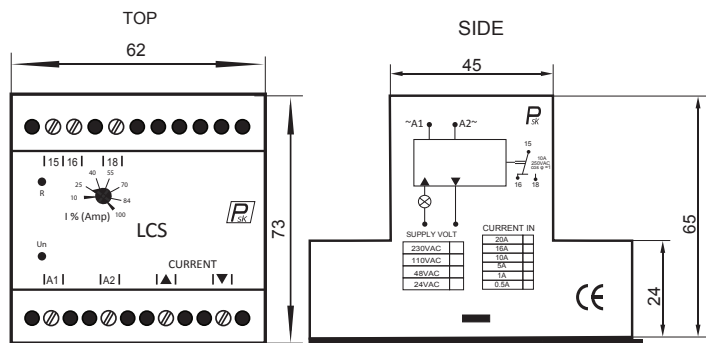
INPUT RESISTANCE

| INPUT CURRENT | INPUT RESISTANCE |
|---------------|------------------|
| 0.5 A         | 0.1 $\Omega$     |
| 1 A           | 0.27 $\Omega$    |
| 5 A           | 0.02 $\Omega$    |
| 10 A          | 0.0056 $\Omega$  |
| 16 A          | 0.0025 $\Omega$  |
| 20 A          | 0.0025 $\Omega$  |

Note:

Higher AC current can be controlled using a current transformer the secondary winding of which is connected to terminals "CURRENT".

### Dimensions



### Ordering information

| CCS    | SUPPLY VOLT | CURRENT IN |
|--------|-------------|------------|
|        | 230VAC      | 20A        |
| 120VAC | 16A         |            |
| 110VAC | 10A         |            |
| 48VAC  | 5A          |            |
| 24VAC  | 1A          |            |
|        | 0.5A        |            |