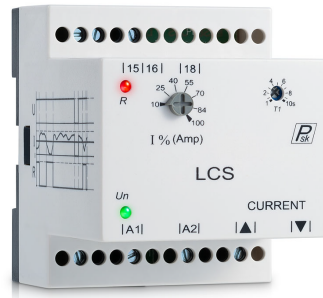


LCS

Current control relay

- CONTROLS AC CURRENT
- 0.5A TO 10A MEASUREMENT RANGE
- THRESHOLD ADJUSTMENT
- TIMING ON DOWNWARD CROSSING OF THRESHOLD ADJUST-
- ABLE FROM 1 TO 10 SECONDS
- 2 LED DISPLAY POWER SUPPLY PRESENCES AND RELAY STATUS



Operating

When input voltage (U) is applied and the value of the AC current being controlled is under threshold (I %) displayed on the front panel, output relay is energizes. Output relay de-energizes at the end of T1 (adjustable between 1 and 10 second via front panel) When the current drops below 5% of the threshold display on front.

The timing on downward crossing of threshold (T1) 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
 1×0.5 to 2.5mm^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: 1×10^6 operations
- Electrical life at 1000 VA $\text{COS } \Phi = 1$: 200.000 operations

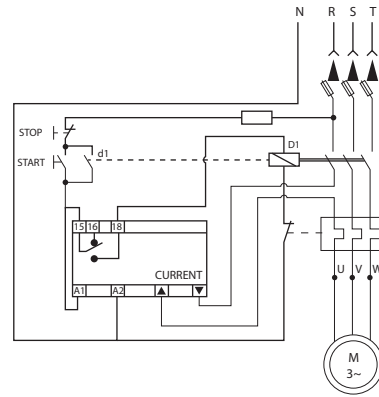
Environmental conditions

- 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

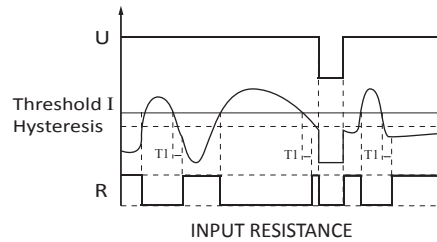
Dimensions & weight

- Width: 62 mm
- Height: 65 mm
- Depth (excl. DIN-profile): 73 mm
- Weight: 226 gram

Connections



Function

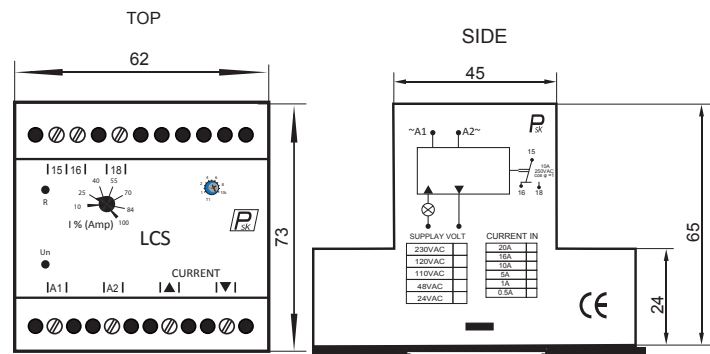


INPUT CURRENT	INPUT RESISTANCE
0.5 A	0.1 Ω
1 A	0.27 Ω
5 A	0.02 Ω
10 A	0.0056 Ω
16 A	0.0025 Ω
20 A	0.0025 Ω

Note:

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

Dimensions



Ordering information

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