

## LCS

### בקר לעלית זרם AC

- CONTROLS AC CURRENT
- 0.5A TO 10A MEASUREMENT RANGE
- THRESHOLD ADJUSTMENT
- TIMING ON DOWNWARD CROSSING OF THRESHOLD ADJUSTABLE 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: 240VAC
- 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

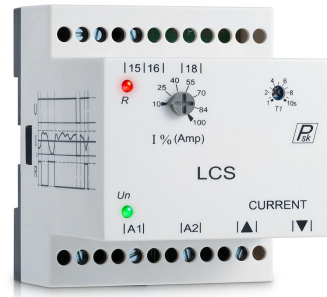
- Relay: 1 C/O
- Rated voltage: 250 Vac
- Switching capacity ac: 1000 VA (8A / 250V) COS  $\Phi = 1$
- Switching capacity dc: 3 A 30 Vdc
- Max switching capacity ac: 10 A
- Mechanical life:  $1 \times 10^6$  operations
- Electrical life at 1000 VA COS  $\Phi = 1$ : 200.000 operations

#### Environmental conditions

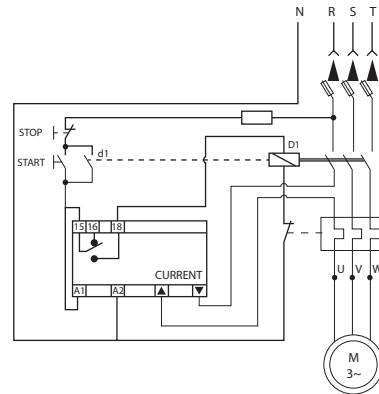
- Permissible ambient temperature:  $-25^\circ\text{C} \dots +55^\circ\text{C}$
- Storage temperature:  $-25^\circ\text{C} \dots +70^\circ\text{C}$
- Transport temperature:  $-25^\circ\text{C} \dots +70^\circ\text{C}$
- Relative humidity (acc. IEC 721-3-3 CLASS 3K3): 15% to 85%
- Vibration resistance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

#### Dimensions & weight

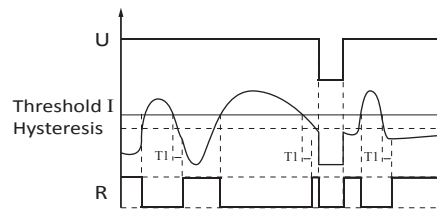
- Width: 62 mm
- Height: 65 mm
- Depth (excl. DIN-profile): 73 mm
- Weight: 226 gram



#### Connections



#### Function



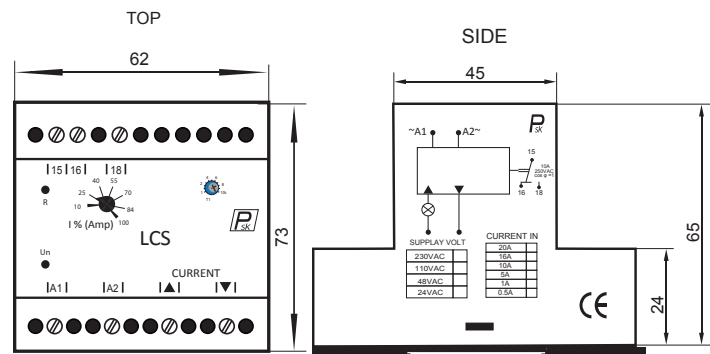
INPUT RESISTANCE

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

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