

## 17.5 mm - 1 Solid State Relay 0.7A MLS2 Part number 88827054



- Multi-function or mono-function
- Multi-range
- Multi-voltage
- Screw or spring terminals
- LED status indicator (relay version)
- Possibility of external load connection in parallel to the control input
- 3-wire PNP sensor compatible

### Part numbers

|            | Type | Functions | Timing    | Output      | Nominal rating | Connections     | Supply voltage |
|------------|------|-----------|-----------|-------------|----------------|-----------------|----------------|
| 88 827 054 | MLS2 | L - Li    | 0,1s→100h | Solid state | 0,7 A          | Screw terminals | 24 →240 V AC   |

### Specifications

#### Timing

|                                              |                                                  |
|----------------------------------------------|--------------------------------------------------|
| Timing ranges (7 ranges)                     | 1 s - 10 s - 1 min - 10 min - 1 h - 10 h - 100 h |
| Repetition accuracy with constant parameters | ± 0.5 % (IEC/EN 61812-1)                         |
| Drift Temperature                            | ± 0,05 % / °C                                    |
| Drift Voltage                                | ± 0,2 % / V                                      |
| Display accuracy according to IEC/EN 61812-1 | ± 10 % / 25 °C                                   |
| Immunity from micro power cuts : typical     | < 10 ms                                          |

#### Supply

|                            |                      |
|----------------------------|----------------------|
| Multi-voltage power supply | Depending on version |
| Frequency (Hz)             | 50 / 60              |
| Operating factor           | 100 %                |

#### Output specification

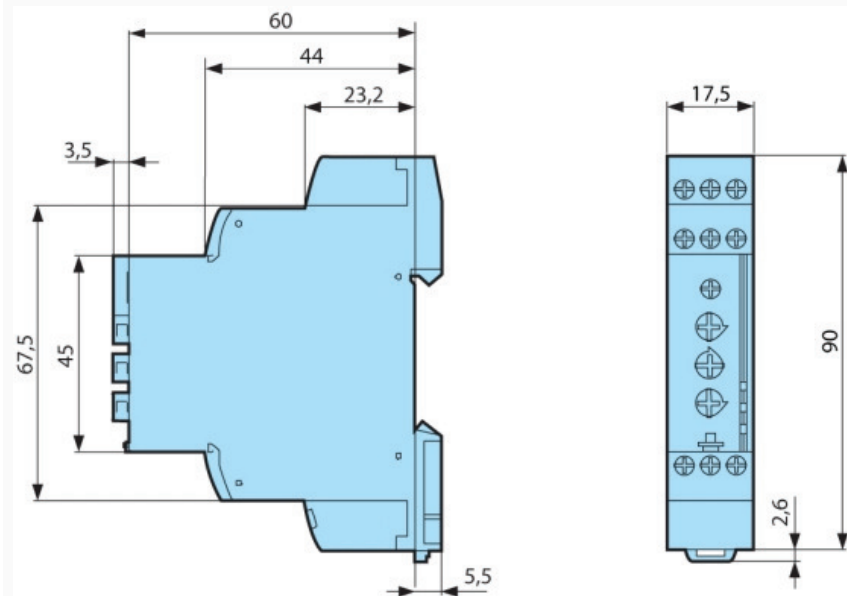
|                                                        |                                                        |
|--------------------------------------------------------|--------------------------------------------------------|
| Rated power                                            | 2000 VA/80 W                                           |
| Maximum breaking current                               | 8 AAC 250 VAC resistive<br>8 ADC 30 VDC resistive      |
| Minimum breaking current                               | 10 mA / 5 VDC                                          |
| Voltage breaking capacity                              | 250 VAC / 8 AAC resistive<br>250 VDC / 0,3 A resistive |
| Electrical life (operations)                           | 10 <sup>5</sup><br>8 A 250 VAC resistive               |
| Mechanical life (operations)                           | 10 x 10 <sup>6</sup>                                   |
| Breakdown voltage acc. to IEC/EN 61812-1               | 2,5 kV / 1 min / 1 mA / 50 Hz                          |
| Impulse voltage acc. to IEC/EN 60664-1, IEC/EN 61812-1 | 5 kV<br>wave 1.2 / 50 µs                               |

#### General characteristics

|                                                                                               |                                                                                                |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Conformity to standards                                                                       | IEC/EN 61812-1<br>IEC/EN 61000-6-1<br>IEC/EN 61000-6-2<br>IEC/EN 61000-6-3<br>IEC/EN 61000-6-4 |
| Certifications                                                                                | CE, UL, cUL, CSA, GL                                                                           |
| Temperature limits use (°C)                                                                   | -20 →+60                                                                                       |
| Temperature limits stored (°C)                                                                | -30 →+60                                                                                       |
| Installation category<br>(acc. to IEC/EN 60664-1)                                             | Voltage surge category III                                                                     |
| Creepage distance and clearance acc. to IEC/EN 60664-1                                        | 4 kV / 3 mm                                                                                    |
| Protection (IEC/EN 60529)                                                                     | IP20<br>IP40                                                                                   |
| Degree of protection acc. to IEC/EN 60529 Front face                                          | IP50                                                                                           |
| Vibration resistance<br>acc. to IEC/EN 60068-2-6                                              | 20 m/s <sup>2</sup> 10 Hz →150 Hz                                                              |
| Relative humidity no condensation acc. to IEC/EN 60068-2-30                                   | 93 % non-condensing                                                                            |
| Electromagnetic compatibility - Immunity to electrostatic discharges acc. to IEC/EN 61000-4-2 | Level III (Air 8 kV / Contact 6 kV)                                                            |
| Immunity to radiated, radio-frequency, electromagnetic field acc. IEC/EN 61000-4-3            | Level I<br>(1 V/m : 2,0 G Hz →2,7 G Hz)<br>Level II<br>(3 V/m : 1,4 G Hz →2,0 G Hz)            |

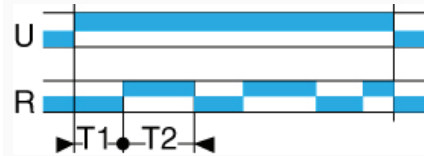
|                                                                                  |                                                                                                          |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
|                                                                                  | Level III<br>(10 V/m : 80 M Hz → 1 G Hz)                                                                 |
| Immunity to rapid transient bursts acc. to IEC/EN 61000-4-4                      | Level III (direct 2 kV / Capacitive coupling clamp 1 kV)                                                 |
| Immunity to shock waves on power supply acc. to IEC/EN 61000-4-5                 | Level III (2 kV / common mode 2 kV/residual current mode 1 kV)                                           |
| Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-6              | Level III (10V rms : 0.15 M Hz to 80 M Hz)                                                               |
| Immunity to voltage dips and breaks acc. to IEC/EN 61000-4-11                    | 0 % residual voltage, 1 cycle<br>70 % residual voltage, 25/30 cycles                                     |
| Mains-borne and radiated emissions acc. to EN 55022 (CISPR22), EN55011 (CISPR11) | Class B                                                                                                  |
| Fixing : Symmetrical DIN rail                                                    | 35 mm                                                                                                    |
| Terminal capacity Single-wire without ferrule                                    | 1 x 0,5 → 3,3 mm <sup>2</sup><br>(AWG 20 → AWG 12)<br>2 x 0,5 → 2,5 mm <sup>2</sup><br>(AWG 20 → AWG 14) |
| Terminal capacity Multi-wire with ferrule                                        | 1 x 0,5 → 2,5 mm <sup>2</sup><br>(AWG 20 → AWG 14)<br>2 x 0,5 → 1,5 mm <sup>2</sup><br>(AWG 20 → AWG 16) |
| Housing material                                                                 | Self-extinguishing                                                                                       |
| Shock test IEC/EN 60068-2-27                                                     | 15 g - 11 ms                                                                                             |
| Short interruption on power line acc to IEC/EN 61000-4-11                        | 0 % residual voltage, 250/300 cycles                                                                     |

Dimensions (mm)



Curves

Function L



|                              |
|------------------------------|
| Function L                   |
| Double temporisation 1 relay |

Curves

Function Li

**Function Li**

Asymmetrical recycler Pulse start 1 relay

**Connections**

Solid state output

