



## 17.5 mm EMER8 Part number 88829198



- Multifunction or mono-function
- Multi-range (7 ranges)
- Multi-voltage or single voltage
- Screw terminals
- LED status indicator (1 voltage present LED, 1 timer ON LED)
- Option of supplying a load in parallel (EMER / EMYR)

### Part numbers

|          | Type  | Packaging | Functions                                 | Timing    | Output             | Nominal rating | Supply voltage              |
|----------|-------|-----------|-------------------------------------------|-----------|--------------------|----------------|-----------------------------|
| 88829198 | EMER8 | Per unit  | A - At - B - C - D - Di - H - Ht - Pe - W | 0,1 →20 h | 1 changeover relay | 5 A NO         | 12 →240 V DC / 24 →240 V AC |

### Specifications

#### Timing

|                                              |                                                                            |
|----------------------------------------------|----------------------------------------------------------------------------|
| Timing ranges (7 ranges)                     | 0.1 s →1 s / 1 →10 s / 6 →60 s / 1 →10 min / 6 →60 min / 1 →10 h / 2 →20 h |
| Repetition accuracy with constant parameters | ± 0,5 %                                                                    |
| Drift Temperature                            | ± 0,05 %/ °C                                                               |
| Drift Voltage                                | ± 0,2 %/V                                                                  |
| Display accuracy according to IEC/EN 61812-1 | ± 10 % / 25 °C                                                             |
| Minimum pulse time                           | 30 ms                                                                      |
| Maximum reset time by denegerisation         | 100 ms                                                                     |

#### Supply

|                                          |                                                                                                                                                                                                                 |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Multi-voltage power supply               | EMAR2 : 110-120 VAC<br>EMAR7 : 240 VAC<br>EMAR9 : 24 VAC/DC<br>EMER8/EMYR8 : 12 →240 VDC / 24 →240 VAC                                                                                                          |
| Operating range                          | EMAR2 : 93 to 132VAC<br>EMAR7 : -15 % + 10 %<br>EMAR9 : 24 VAC - 15 % + 10 % / 24 VDC - 15 % + 20 %<br>EMER8/EMYR8 : -15 % + 10 %                                                                               |
| Frequency (Hz)                           | 50 / 60 Hz ± 5 %                                                                                                                                                                                                |
| Max. absorbed power                      | EMAR2 : approx. 3,2 VA 110 VAC<br>EMAR7 : approx. 3,2 VA 230 VAC<br>EMAR9 : approx. 1,2 VA (0,6 W) / 24 VAC (DC)<br>EMER8/EMYR8 : approx. 3,2 VA (1,5 W) / 230 VAC (DC)<br>Approx. 1,2 VA (0,6 W) / 24 VAC (DC) |
| Immunity from micro power cuts : typical | > 10 ms                                                                                                                                                                                                         |

#### Output specification

|                                     |                                                                                    |
|-------------------------------------|------------------------------------------------------------------------------------|
| Changeover relay                    | 1 NO : 1250 VA / 150 W<br>1 NC : 750 VA / 90 W                                     |
| Maximum breaking current            | NO : 5 A 250 VAC / 5 A 30 VDC resistive<br>NC : 3 A 250 VAC / 3 A 30 VDC resistive |
| Minimum breaking current            | 10 mA / 12 VDC                                                                     |
| Voltage breaking capacity           | 277 VAC / 30 VDC                                                                   |
| Electrical life (operations)        | 10 <sup>5</sup> NO cycles<br>7 x 10 <sup>4</sup> cycles                            |
| Mechanical life (operations cycles) | 5 x 10 <sup>6</sup>                                                                |

#### General characteristics

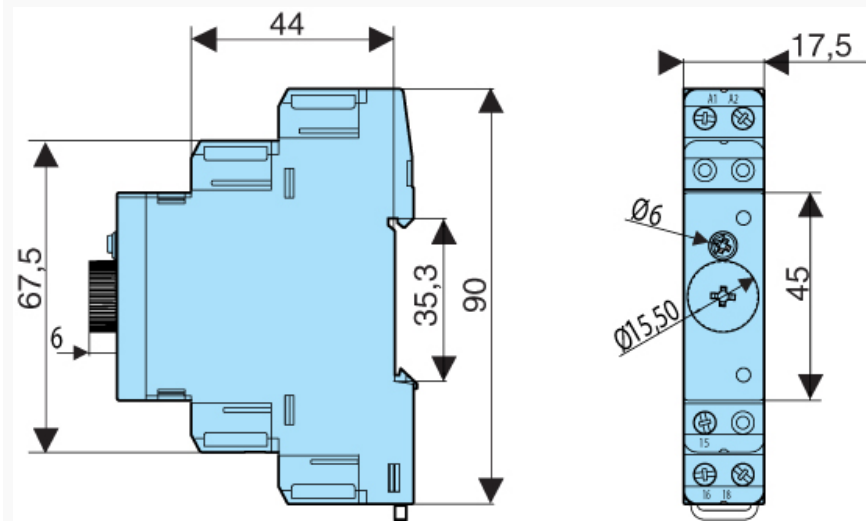
|                                               |                                                                                              |
|-----------------------------------------------|----------------------------------------------------------------------------------------------|
| LED display                                   | Green : voltage present<br>Yellow : timer R ON                                               |
| Fixing : Symmetrical DIN rail                 | 35 mm                                                                                        |
| Protection (IEC/EN 60529)                     | Casing : IP40<br>Connection terminals : IP20                                                 |
| Terminal capacity Multi-wire with ferrule     | 1 x 0,5 →4 mm <sup>2</sup> (AWG 20 →AWG11)<br>2 x 0,5 →2,5 mm <sup>2</sup> (AWG 20 →AWG14)   |
| Terminal capacity Single-wire without ferrule | 1 x 0,5 →2,5 mm <sup>2</sup> (AWG 20 →AWG14)<br>2 x 0,5 →1,5 mm <sup>2</sup> (AWG 20 →AWG16) |
| Stripping length (mm)                         | 5 mm                                                                                         |
| Max. tightening torques IEC/EN 60947-1        | 0,6 →0,8 Nm                                                                                  |
| Temperature limits use (°C)                   | -20 °C →+60 °C                                                                               |
| Temperature limits stored (°C)                | -40 °C →70 °C                                                                                |

|                                                             |                                                               |
|-------------------------------------------------------------|---------------------------------------------------------------|
| Relative humidity no condensation acc. to IEC/EN 60068-2-30 | 93 %                                                          |
| Vibration resistance according to IEC/EN 60068-2-6          | 10 →55 Hz, A = 0.35 mm peak to peak 10 x cycles, 1 octave/min |
| Weight (g)                                                  | 60                                                            |

|                                                                                    |                                                                                                                                                                  |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard</b>                                                                    |                                                                                                                                                                  |
| Certifications                                                                     | CE - cUL                                                                                                                                                         |
| Conforming to standards (directives BT and CEM)                                    | IEC/EN 61812-1<br>IEC/EN 61000-6-2<br>IEC/EN 61000-6-3<br>IEC/EN 61000-6-4                                                                                       |
| Conformity with environmental directives                                           | 2002/95/CE : RoHS<br>1907/2006 : Reach                                                                                                                           |
| Immunity to electrostatic discharges acc. IEC/EN 61000-4-2                         | Level III<br>air ± 8 kV / contact ± 4 kV                                                                                                                         |
| Immunity to radiated, radio-frequency, electromagnetic field acc. IEC/EN 61000-4-3 | Level III<br>10 V/m (80 M Hz →1 G Hz) 80 % AM (1 K Hz)<br>3 V/m (1.4 →2 G Hz) 80 % AM (1 K Hz)<br>1 V/m (2 →2.7 G Hz) 80 % AM (1 K Hz)                           |
| Immunity to rapid transient bursts acc. to IEC/EN 61000-4-4                        | Level III<br>Direct ± 2 kV (power supply)<br>Coupling ± 1 kV (I/O)                                                                                               |
| Immunity to shock waves on power supply acc. to IEC/EN 61000-4-5                   | Level III<br>Power supply/earth ± 2 KV<br>Power supply input ± 1 KV                                                                                              |
| Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-6                | Level III<br>10 V (0.15 →80 M Hz) 80 % AM (1 K Hz)                                                                                                               |
| Immunity to magnetical field acc. (IEC/EN 61000-4-8)                               | 50, 60 Hz 30 A/m, 1 min.                                                                                                                                         |
| Immunity to voltage dips and breaks acc. to IEC/EN 61000-4-11                      | 0 % residual voltage / 1 cycle<br>40 % residual voltage / 10 cycles (50 Hz) / 12 cycles (60 Hz)<br>70 % residual voltage / 25 cycles (50 Hz) / 30 cycles (60 Hz) |
| Mains-borne and radiated emissions acc. to IEC/EN 61000-6-3                        | Class B                                                                                                                                                          |

|                                                |                                                    |
|------------------------------------------------|----------------------------------------------------|
| <b>Insulation</b>                              |                                                    |
| Insulation voltage                             | 250 V                                              |
| Insulation coordination (IEC/EN 60664-1)       | Category III, degree of pollution 3 ; up to 2000 m |
| Shock waves                                    | 2,5 KV (1,2 / 50 µs)                               |
| Breakdown voltage conforming to IEC/EN 61812-1 | 2 KV / 1 min / 1 mA / 50 Hz                        |
| Insulation resistance                          | > 500 MΩ / 250 V DC / 1 min                        |

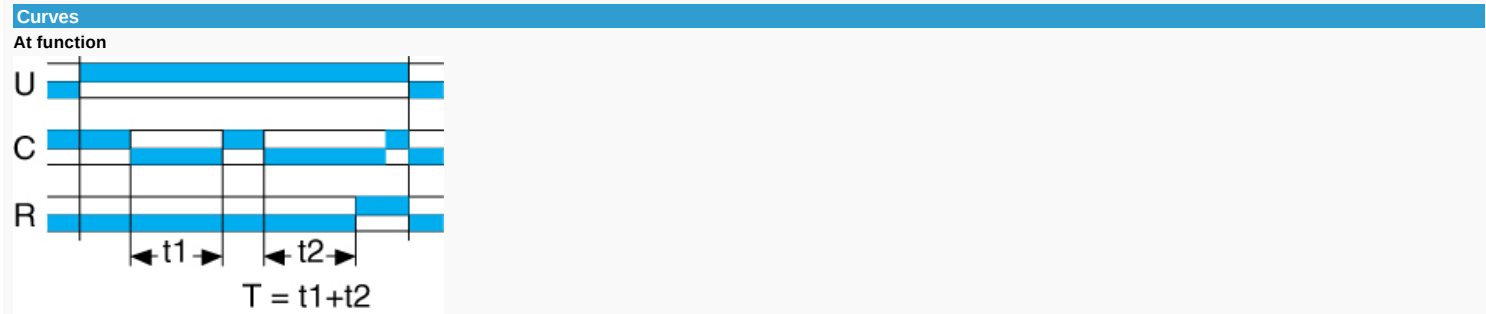
Dimensions (mm)



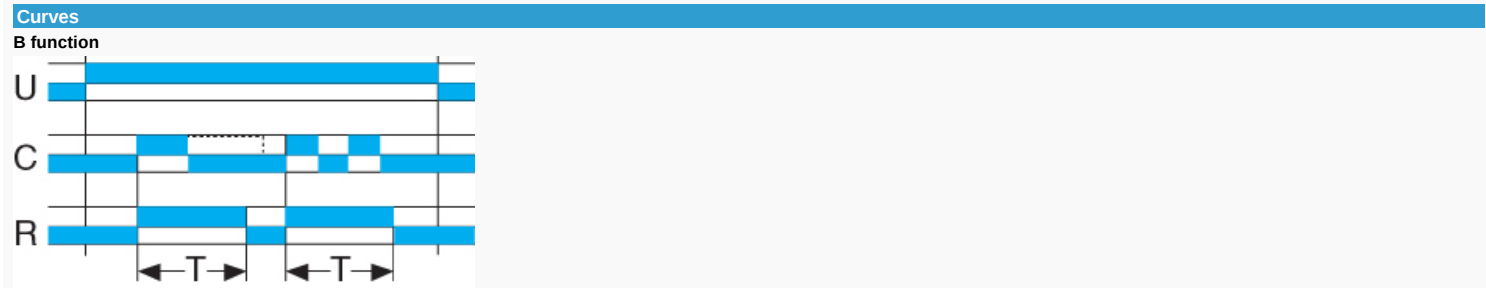
Curves



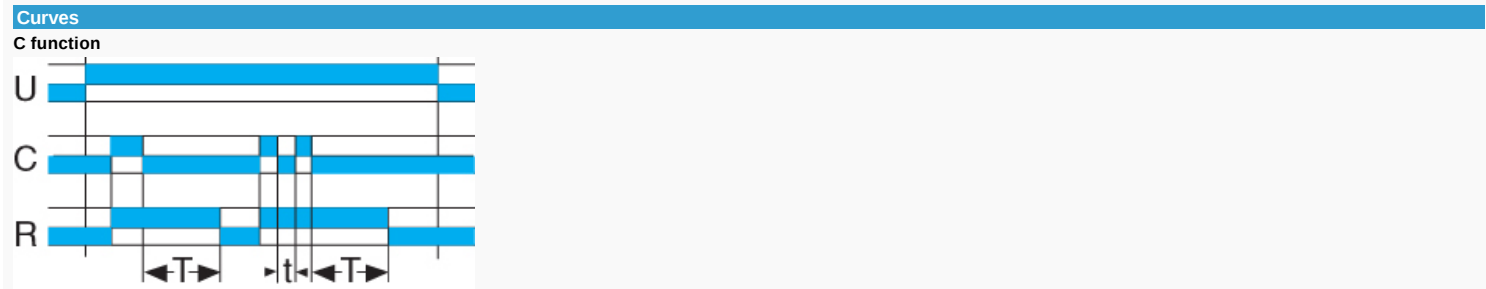
|                               |
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| <b>Function A</b>             |
| Delay on energisation 1 relay |



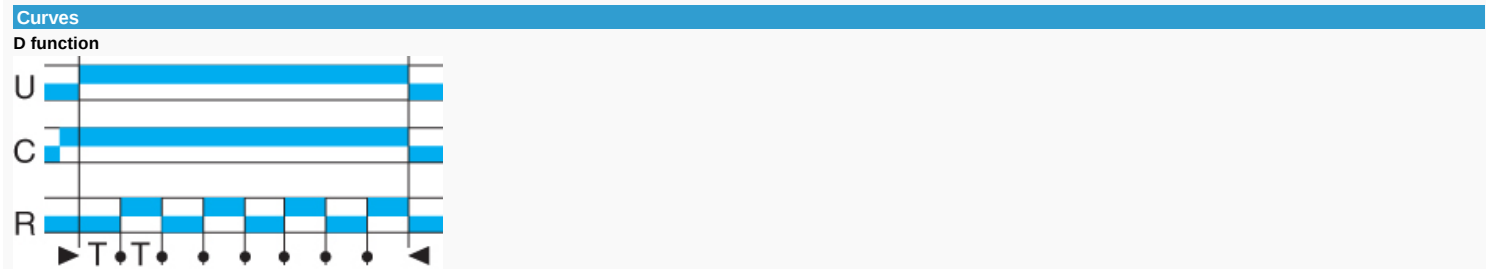
|                                            |
|--------------------------------------------|
| <b>Function At</b>                         |
| Timing on energisation with memory 1 relay |



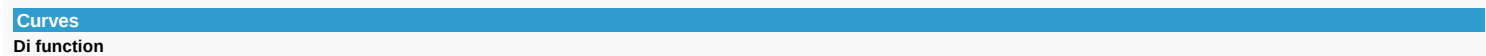
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| <b>Function B</b>                  |
| Timing on impulse one shot 1 relay |

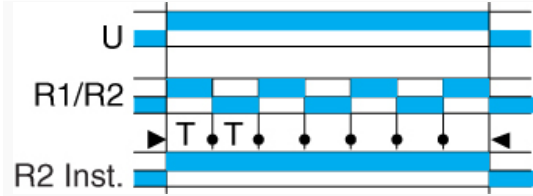


|                              |
|------------------------------|
| <b>Function C</b>            |
| Timing after impulse 1 relay |



|                               |
|-------------------------------|
| <b>Function D</b>             |
| Flip-flop Pause start 1 relay |





|                               |
|-------------------------------|
| Function Di                   |
| Flip-flop Pulse start 1 relay |

Curves

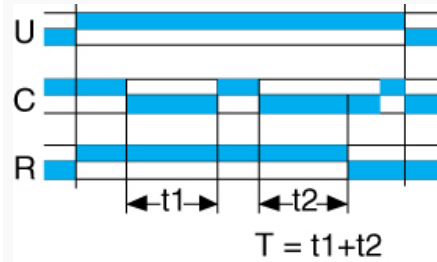
H function



|                                |
|--------------------------------|
| Function H                     |
| Timing on energisation 1 relay |

Curves

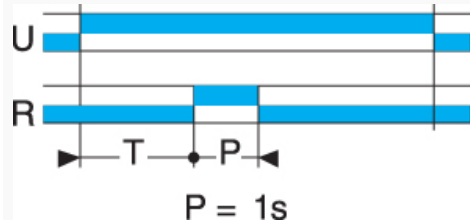
Ht function



|                                           |
|-------------------------------------------|
| Function Ht                               |
| Delay on energisation with memory 1 relay |

Curves

Pe function



|                                    |
|------------------------------------|
| Function Pe                        |
| Impulse counter (delay on) 1 relay |

Curves

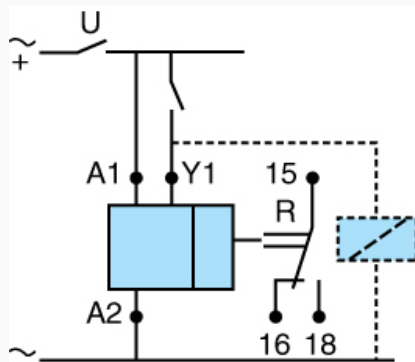
W function

**Function W**

Timing after pulse on control contact 1 relay

**Connections**

EMER8 - EMYR8





**Стандарт  
Электрон  
Связь**

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