

EAN kód
PMR1-31: 8595188115636
PMR1-31/2: 8595188115643
PMR1-36: 8595188130615
PMR1-39: 8595188130612
PMR1-39/2: 8595188130639

Weight:

Standards:

- \bullet Used to monitor the size of DC or AC voltage in single-phase circuits
- Powered from a monitored circuit
- Measurement of monitored voltage TRUE RMS
- Monitors the exceeded upper limit of stress (Umax) and falling below the lower limit of stress (Umin) according to the selected function
- Continuous adjustment of both voltage limits the lower level Umin is set in % of the upper level Umax
- Adjustable reaction delay (to eliminate short-term voltage peaks)
- Option to select functions with error state memory (Latch)

PMR1-36 PMR1-36/2 PMR1-31 PMR1-31/2 PMR1-39 PMR1-39/2 **Technical parameters** Supply and measuring Power and measuring terminals: A1-A2 A1-A2 A1-A2 Supply and monitored voltage: AC/DC 48-276V (AC DC 6 - 30 V AC/DC 24 - 150 V (AC 50-60 Hz) 50-60 Hz) Consumption AC (max.): 3.6 VA/0.66 W 3.6 VA/0.66 W Consumption DC (max.): 0.85 W 0.4 W 0.85 W Upper level (Umax): AC 160 - 276 V DC 12 - 30 V AC 80-150 V Bottom level (Umin): 30-95 % Umax 50 - 95 % Umax 30-95 % Umax Max. permanent overload: AC 276 V DC 36 V AC 276 V Peak overload (1 s): AC 290 V AC 290 V DC 48 V Time delay (d): 300 ms Time delay (t): adjustable, 0.5 - 10 s Accuracy Setting accuracy (mechanical): 5 % - in the mechanical setting Repeat accuracy: <1 % Dependance on temperature: < 0.1 %/°C Tolerance of limit values: 5 % Hysteresis 5 % (functions O1, U1, W) (from fault to normal): Umax – Umin (functions O2, U2, U3) Output Number of contacts: 1x changeover (AgNi) 1x changeover (AgNi) 1x changeover (AgNi) 2x changeover (AgNi) 2x changeover (AgNi) 2x changeover (AgNi) Current rating: 16 A/AC1 Breaking capacity: 4000 VA/AC1, 384 W/DC1 Inrush current: 250 V AC/24 V DC Power loss (max.): 1.2 W Mechanical life: 10.000.000 ops. Electrical life (AC1): 100.000 ops. Other information Operating temperature: -20 °C to 55 °C (-4 °F to 131 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F) Dielectrical strength: 4 kV (supply - output) Operating position: anv Mounting: DIN rail FN 60715 Protection degree: IP40 from front panel, IP20 terminals Overvoltage category: III. Pollution degree 2 Dimensions: 90 x 17.6 x 64 mm (3.5" x 0.7" x 2.5")

94 g (3.32 oz)

105 g (3.7 oz)

94 g (3.32 oz)

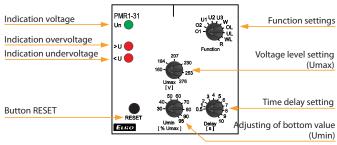
105q (3.7 oz)

EN 60255-1, EN 60255-26, EN 60255-27

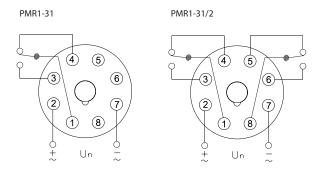
94 g (3.32 oz)

105g (3.7 oz)

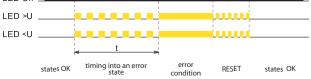
Device description



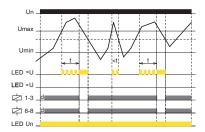
Connection



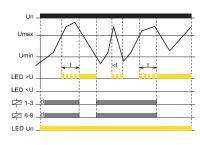
Indication of operating states LED Un ______



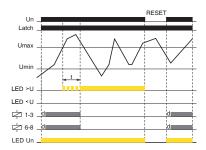
OVER (hysteresis 5%)



OVER (hysteresis to Umin)



OL OVER + Latch



OVER:

If the size of the monitored voltage is lower than the set limit Umax, the output relay is switched on. If the Umax relay is exceeded, it opens after the set delay (error state). If the voltage drops below the fixed hysteresis (O1 function) or below the set lower limit (O2 function), the relay switches on again.

If the OL function (OVER + Latch) is selected, when the voltage value is exceeded, the relay remains open even when the voltage returns from the error state.

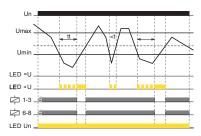
Reset memory errors can be done in two ways:

- Short-term interruption of supply voltage
- By short-term interruption of the supply voltage By setting the function switch to position R (RESET) or any function without error memory.
- The RESET state lasts for 3 s after switching the function switch from the R position to a function with an error memory (UL, OL, WL). When moving to any other function from the R position, this delay does not apply.

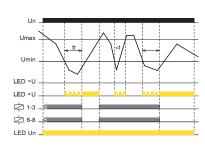
Indication of operating states (red >U, <U):

- LED off status OK (relay closed)
- LED flashes timing to error state (relay closed)
- LED on error condition (relay open)
- The LED flashes quickly the motion state RESET function is set (relay opened)
- In the U3 function, the LED lights up in the OK state (relay closed), flashes during timing

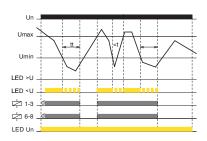
U1 UNDER (hysteresis 5%)



UNDER (hysteresis to Umax)



U3 UNDER (hystereze to Umax)



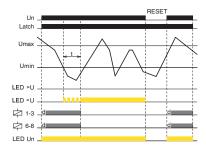
UNDER:

If the amount of the monitored voltage is higher than the set limit Umin, the output relay is switched on. At poccles voltage below Umin relay after the set delay starts (error state).

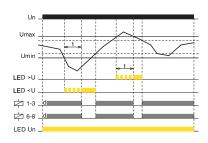
If the voltage exceeds the fixed hysteresis (function U1) or the set upper limit (function U2), the relay closes again.

If the function UL (UNDER + Latch) is selected, when the voltage drops below Umin, the relay remains open even when the voltage returns from the error state. Resetting the error memory can be done as in the previous case.

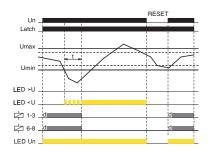
UL UNDER + Latch



W WINDOW (hysteresis 5%)



WL WINDOW + Latch



WINDOW:

If the size of the monitored voltage is lower than Umax and at the same time higher than Umin, the output relay is switched on. If Umax is exceeded or decreases below Umin, the relay opens after the set delay (error state)

A fixed hysteresis is applied to recover from an error condition

If the WL function (WINDOW + Latch) is selected, the error state is stored in memory again even when the voltage returns from the error state. Reset the error memory can be done as in the previous cases.