

## MINITIMER Timer, On-delay IK 8808

Translation  
of the original instructions

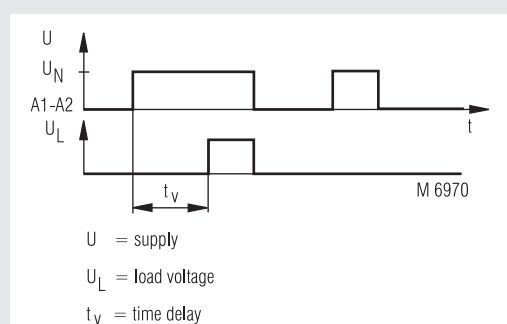


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- For two-wire technology
- Power ON-delay relay according to EN 61812-1
- Programmable time ranges between 0.06 ... 160 s or 0.06 ... 160 min
- Programmable nominal voltage AC/DC 24 ... 240 V
- Repeat accuracy  $\leq \pm 1 \%$
- Thyristor output for 10 ... 800 mA
- Width 17.5 mm

### Function Diagram



### Approvals and Markings



### Application

Time-based control equipment

### Notes

The units must be connected in accordance with the connection examples. Voltage may not be applied to the time relay when it is not loaded; if this is done, the time relay will be destroyed. Connections A1 and A2 have advance pole protection.

### Unit Programming

| Terminals      | Bridge | Time<br>sec/min | Voltage<br>AC/DC [V] |
|----------------|--------|-----------------|----------------------|
| 5 - 6<br>7 - 8 |        | 16 ... 160      |                      |
| 5 - 6<br>7 - 8 | X      | 2 ... 20        |                      |
| 5 - 6<br>7 - 8 | X      | 0.25 ... 2.5    |                      |
| 5 - 6<br>7 - 8 | X      | 0.06 ... 0.6    |                      |
| 3 - 4          | X      |                 | 24 ... 60            |
| 3 - 4          |        |                 | 60 ... 240           |

### Technical Data

#### Time circuit

**Time ranges:** 0.06 ... 0.6 s or 0.06 ... 0.6 min  
0.25 ... 2.5 s 0.25 ... 2.5 min  
2 ... 20 s 2 ... 20 min  
16 ... 160 s 16 ... 160 min  
Infinitely variable, on relative scale

#### Time setting:

#### Recovery time

tw 50 / 100:  $\leq 100 \text{ ms} / \leq 25 \text{ ms}$

#### Repeat accuracy:

$\pm 1 \%$  of the full scale

#### Temperature influence:

$\leq 0.15 \%$  / K

#### Input

**Nominal voltage U<sub>N</sub>:** AC/DC 24 ... 60 V and AC/DC 60 ... 240 V

**Voltage range:** 0.8 ... 1.1 U<sub>N</sub>

**Nominal frequency:** 50 / 60 Hz

**Frequency range:**  $\pm 20 \%$

**Residual current:**  $\leq 3 \text{ mA}$  during the operating time

**Voltage drop:**  $\leq 3.5 \text{ V}$  after the operating time has ended

#### Output

**Type of output:** Thyristor

**Load current (min.):** 10 mA

**Load current (max.):** 0.8 A (20°C)

**Load current reduction:** 10 mA

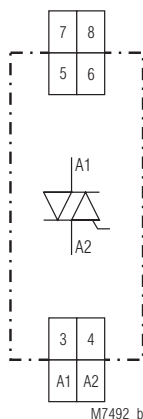
**Max. overload:** 25 A max. 10 ms

50 A max. 1 ms

**Dielectric strength:** 1 400 V max. 100  $\mu\text{s}$

**Thermal current I<sub>th</sub>:** 0.8 A

### Circuit Diagram



## Technical Data

### General Data

|                                |                                                                                                 |                  |
|--------------------------------|-------------------------------------------------------------------------------------------------|------------------|
| <b>Nominal operating mode:</b> | Continuous operation                                                                            |                  |
| <b>Temperature range:</b>      | - 20 ... + 60°C                                                                                 |                  |
| <b>EMC</b>                     |                                                                                                 |                  |
| Electrostatic discharge:       | 8 kV (air)                                                                                      | IEC/EN 61000-4-2 |
| Fast transient:                | 1 kV                                                                                            | IEC/EN 61000-4-4 |
| Surge voltages                 |                                                                                                 |                  |
| Between                        |                                                                                                 |                  |
| wires for power supply:        | 2 kV                                                                                            | IEC/EN 61000-4-5 |
| Between wire and ground:       | 4 kV                                                                                            | IEC/EN 61000-4-5 |
| Interference suppression:      | Limit value class B                                                                             | EN 55011         |
| <b>Degree of protection</b>    |                                                                                                 |                  |
| Housing:                       | IP 40                                                                                           | IEC/EN 60529     |
| Terminals:                     | IP 20                                                                                           | IEC/EN 60529     |
| <b>Housing:</b>                | Thermoplastic with V0 behaviour according to UL subject 94                                      |                  |
| <b>Vibration resistance:</b>   | Amplitude 0.35 mm, frequency 10 ... 55 Hz IEC/EN 60068-2-6                                      |                  |
| <b>Climate resistance:</b>     | 20 / 060 / 04 IEC/EN 60068-1                                                                    |                  |
| <b>Wire connection:</b>        | 2 x 2.5 mm <sup>2</sup> solid or 2 x 1.5 mm <sup>2</sup> stranded ferruled DIN 46228-1/-2/-3/-4 |                  |
| <b>Wire fixing:</b>            | Terminals with self-lifting clamping piece IEC/EN 60999-1                                       |                  |
| <b>Mounting:</b>               | DIN rail IEC/EN 60715                                                                           |                  |
| <b>Weight:</b>                 | 58 g                                                                                            |                  |

### Dimensions

Width x height x depth: 17.5 x 89 x 58 mm

### Standard Type

|                           |                    |            |
|---------------------------|--------------------|------------|
| IK 8808 0.06 ... 160 s    |                    |            |
| Article number:           | 0023180            | stock item |
| • Nominal voltage $U_N$ : | AC/DC 24 ... 240 V |            |
| • Time range:             | 0.06 ... 160 s     |            |
| • Width:                  | 17.5 mm            |            |

### Connection Example

