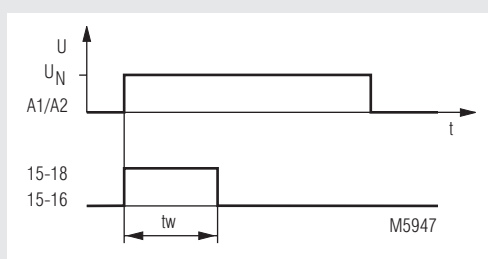


## MINITIMER Fleeting Action Relay IK 7826



- According to IEC/EN 61 812-1
- Fleeting action 0.05 ... 1 s, adjustable
- Fleet make contact
- Repeat accuracy  $\leq 0.5 \% + 10 \text{ ms}$
- Pushbutton for manual actuation of the contact
- 1 changeover contact for 16 A
- Width 17.5 mm

### Function Diagram



### Approvals and Marking



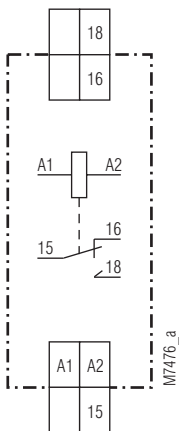
### Applications

- Time-dependent controllers

### Indicators

Push button: pressed, when relay energized

### Circuit Diagram



### Technical Data

**Fleeting action:** 0.05 ... 1 s  
**Tolerance of end value:** - 5 ... + 25 % of nominal value  
**Time setting:** stepless, 1:20 on relative scale  
**Recovery time:** approx. 60 ms (during time run-down)  
 approx. 700 ms (after time run-down)  
**Repeat accuracy:**  $< \pm 0.5 \% + 10 \text{ ms}$

### Input

**Nominal voltage  $U_N$ :** AC 24, 127, 230 V  
 DC 24 V  
**Voltage range:** 90 ... 110 %  $U_N$   
**Nominal frequency:** 50 Hz  
**Frequency range:**  $\pm 5 \%$   
**Nominal consumption**  
 AC: 2.3 VA  
 DC: 1.5 W  
**Voltage influence:**  $< 1 \%$  over voltage range  
**Temperature influence:**  $< 0.1 \% / K$

### Output

#### Contacts

IK 7826.71: 1 changeover contact  
 (fleet make contact)  
**Release time of the contacts:**  $< 30 \text{ ms}$   
**Thermal current  $I_{th}$ :** 16 A  
**Electrical life**  
 at 500 switching cycles / h  
 under ohmic load AC 230 V:  
 6 A  $150 \times 10^4$  switching cycles  
 10 A  $72 \times 10^4$  switching cycles  
 16 A  $12 \times 10^4$  switching cycles  
 10 A  $10 \times 10^4$  switching cycles  
 Inductive load  $\cos \varphi 0.6$ : see limit curve for arc-free operation  
**DC load:**  
**Short circuit strength**  
**max. fuse rating:** 16 A gL IEC/EN 60 947-5-1  
**Mechanical life:**  $> 3 \times 10^6$  switching cycles

## Technical Data

### General Data

|  |   |                   |
|--|---|-------------------|
| <b>Operating mode:</b>                         | Continuous operation  |                   |
| <b>Temperature range:</b>                      | - 20 ... + 45 °C  |                   |
| <b>Clearance and creepage distances</b>        |   |                   |
| rated impuls voltage / pollution degree:       | 4 kV / 2  | IEC 60 664-1      |
| <b>EMC</b>                                     |   |                   |
| Electrostatic discharge:                       | 8 kV (air)  | IEC/EN 61 000-4-2 |
| HF irradiation:                                | 10 V / m  | IEC/EN 61 000-4-3 |
| Fast transients:                               | 2 kV  | IEC/EN 61 000-4-4 |
| Surge voltages between wires for power supply: | 1 kV  | IEC/EN 61 000-4-5 |
| between wire and ground:                       | 2 kV  | IEC/EN 61 000-4-5 |
| Interference suppression:                      | Limit value class B   | EN 55 011         |
| <b>Degree of protection</b>                    |   |                   |
| Housing:                                       | IP 40   | IEC/EN 60 529     |
| Terminals:                                     | IP 20   | IEC/EN 60 529     |
| <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 60 068-2-6   |                   |
| <b>Climate resistance:</b>                     | 20 / 045 / 04 IEC/EN 60 068-1   |                   |
| <b>Terminal designation:</b>                   | EN 50 005   |                   |
| <b>Wire connection:</b>                        | 2 x 2.5 mm <sup>2</sup> solid or 2 x 1.5 mm <sup>2</sup> stranded ferruled<br>DIN 46 228-1/-2/-3/-4 |                   |
| <b>Wire fixing:</b>                            | Flat terminals with self-lifting clamping piece IEC/EN 60 999-1                                     |                   |
| <b>Mounting:</b>                               | DIN rail IEC/EN 60 715  |                   |
| <b>Weight:</b>                                 | 100 g   |                   |

### Dimensions

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

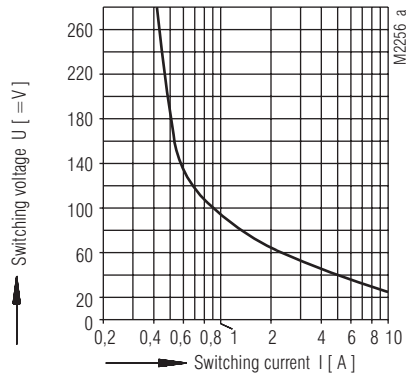
### Standard Type

|                           |   |            |
|---------------------------|---|------------|
| IK 7826.71 AC 230 V 50 Hz | 0.05 ... 1 s                              |            |
| Article number:           | 0043114                                   | stock item |
| • Output:                 | 1 changeover contact (fleet make contact) |            |
| • Nominal voltage $U_N$ : | AC 230 V                                  |            |
| • Fleeting action:        | 0.05 ... 1 s                              |            |
| • Width:                  | 17.5 mm                                   |            |

### Ordering Example

|         |     |          |       |     |                        |
|---------|-----|----------|-------|-----|------------------------|
| IK 7826 | .71 | AC 230 V | 50 Hz | 1 s |                        |
|         |     |          |       |     | Time range limit value |
|         |     |          |       |     | Nominal frequency      |
|         |     |          |       |     | Nominal voltage        |
|         |     |          |       |     | Contact                |
|         |     |          |       |     | Type                   |

## Characteristics



safe braking, no continuous arcing  
max. 1000 switching cycles / h  
contact spacing min. 0,6mm

Limit curve for arc-free operation