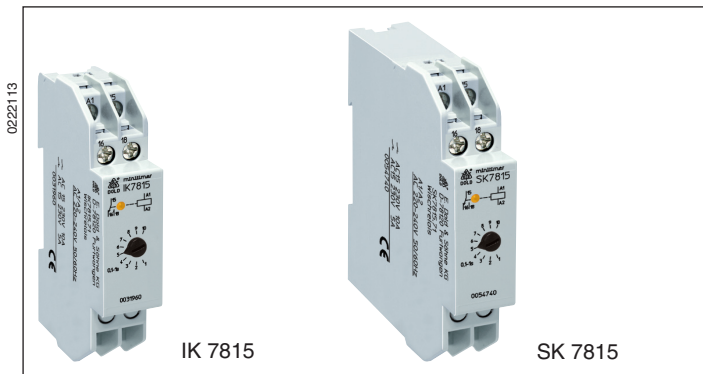
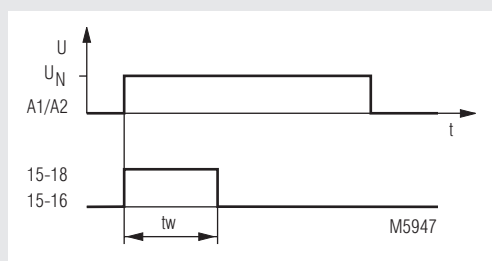


MINITIMER Fleeting Action Relay IK 7815, SK 7815



- According to IEC/EN 61 812-1
- Fleeting time up to 60 min.
- Adjustable fleeting time
- Repeat accuracy $\leq \pm 1 \%$
- LED indicator for contact position
- 1 changeover contact
- **Devices available in 2 enclosure versions:**
 - IK 7815:** depth 58 mm, with terminals at the bottom for installation systems and industrial distribution systems according to DIN 43 880
 - SK 7815:** depth 98 mm, with terminals at the top for cabinets with mounting plate and cable duct
- Width 17.5 mm

Function Diagram



Approvals and Marking



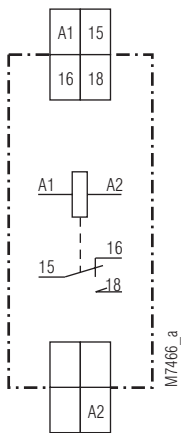
Application

Time-based control equipment

Indicator

LED: on when the output relay is activated (contact 15 - 18 is closed)

Circuit Diagram



IK 7815.71, SK 7815.71

Technical Data

Time circuit

Fleeting time: 0.1 ... 1 s 1 ... 10 min
1 ... 10 s 3 ... 30 min
10 ... 100 s 6 ... 60 min
Infinitely variable, on relative scale

Setting:

Recovery time

tw 50 / 100: < 60 ms

Repeat accuracy:

0.1 %

Voltage influence:

$\leq 1 \%$ bei 0.8 ... 1.1 U_N

Temperature influence:

0.05 % / K

Input

Nominal voltage U_N : AC/DC 12 V, AC/DC 24 V, AC 110 ... 127 V, AC 220 ... 240 V

Voltage range: 0.8 ... 1.1 U_N with AC and DC 48 % residual ripple
0.9 ... 1.25 U_N in battery operating mode

Release voltage: 15 % U_N

Nominal consumption: AC/DC 24 V 0.6 W
AC 230 V 50 Hz 3.5 VA

Nominal frequency: 50 / 60 Hz

Frequency range: $\pm 5 \%$

Output

Contacts

IK 7815.71, SK 7815.71: 1 changeover contact
10 A at 45°C ambient temperature

Thermal current I_{th} :

Switching capacity

to AC 15
NO contact: 10 A / AC 230V IEC/EN 60 947-5-1
NC contact: 5 A / AC 230 V IEC/EN 60 947-5-1
Glow lamp load: 1200 W

Electrical life:

IEC/EN 60 947-5-1

AC 15 at 3 A, AC 230 V:

5 x 10⁵ switching cycles

Permissible switching frequency:

6 000 switching cycles/h

Short circuit strength

max. fuse rating: 10 AgL IEC/EN 60 947-5-1

max. line circuit breaker:

B16

Mechanical life:

> 30 x 10⁶ switching cycles

Technical Data

General Data

Operating mode:	Continuous operation	
Temperature range:	- 20 ... + 60°C	
Clearance and creepage distances		
rated impuls voltage/ pollution degree:	4 kV / 2	IEC 60 664-1
EMC		
Electrostatic discharge:	8 kV (air)	IEC/EN 61 000-4-2
HF irradiation:	10 V/m	IEC/EN 61 000-4-3
Fast transients:	4 kV	IEC/EN 61 000-4-4
Surge voltages between wires for power supply:	2 kV	IEC/EN 61 000-4-5
between wire and ground:	4 kV	IEC/EN 61 000-4-5
Interference suppression:	Limit value class B	EN 55 011
Degree of protection		
Housing:	IP 40	IEC/EN 60 529
Terminals:	IP 20	IEC/EN 60 529
Housing:	Thermoplastic with V0 behaviour according to UL Subj. 94	
Vibration resistance:	Amplitude 0.35 mm frequency 10 ... 55 Hz, IEC/EN 60 068-2-6	
Climate resistance:	20 / 060 / 04 IEC/EN 60 068-1	
Terminal designation:	EN 50 005	
Wire connection:	2 x 2.5 mm ² solid or 2 x 1.5 mm ² stranded ferruled DIN 46 228-1/-2/-3/-4	
Wire fixing:	terminals with self-lifting clamping piece IEC/EN 60 999-1	
Mounting:	DIN rail IEC/EN 60 715	
Weight		
IK 7815:	75 g	
SK 7815:	94 g	

Dimensions

Width x height x depth

IK 7815:	17.5 x 90 x 58 mm
SK 7815:	17.5 x 90 x 98 mm

Standard Type

IK 7815.71 AC 220 ... 240 V	0.1 ... 1 s	
Article number:	0031960	stock item
• Output:	1 changeover contact	
• Nominal voltage U_N :	AC 220 ... 240 V	
• Fleeting time:	0.1 ... 1 s	
• Width:	17.5 mm	
SK 7815.71 AC 220 ... 240 V	0.1 ... 1 s	
Article number:	0054740	
• Output	1 changeover contact	
• Nominal voltage U_N :	AC 220 ... 240 V	
• Fleeting time:	0.1 ... 1 s	
• Width:	17.5 mm	

Ordering Example

IK 7815	.71	AC 220 ... 240 V	50 / 60 Hz	1 s	
					Time range, max. value
					Nominal frequency
					Nominal voltage
					Contacts
					Type