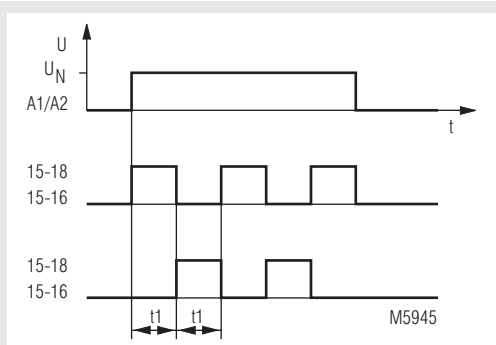


MINITIMER Flasher Relay IK 7827



- According to IEC/EN 61 812-1
- Pulse time up to 100 s
- IK 7827 start with pulse
- IK 7827/100 start with pause
- 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



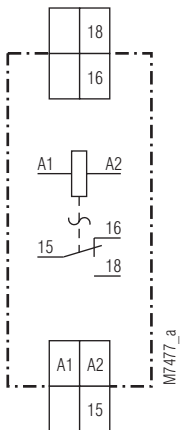
Application

- Time-dependent controllers

Indicators

Push button: pressed, when relay energized

Circuit Diagram



Technical Data

- Time ranges:** 0.05 ... 1 s
(equivalent to 600 ... 30 pulses / min.)
0.5 ... 10 s
5 ... 100 s
- Tolerance of end value:** - 5 ... + 25 % of nominal value
- Time setting:** stepless, 1:20 on relative scale
- Recovery time:** approx. 60 ms
(during run-down of the pulse time)
approx. 700 ms
(during run-down of the pause time)
- Repeat accuracy:** $< \pm 0.5 \% + 10 \text{ ms}$
- Voltage influence:** $< 1 \% \text{ over voltage range}$
- Temperature influence:** $< 0.1 \% / \text{K}$

Input

- Nominal voltage U_N :** AC 24, 127, 230 V
DC 24 V
- Voltage range:** 90 ... 110 % U_N
- Nominal consumption**
- AC: 2.3 VA
DC: 1.5 W
- Nominal frequency:** 50 Hz
- Frequency range:** $\pm 5 \%$

Output

- Contacts**
- IK 7827.81: 1 changeover 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 150×10^4 switching cycles
10 A 72×10^4 switching cycles
16 A 12×10^4 switching cycles
10 A 10×10^4 switching cycles
- Inductive load $\cos \varphi 0.6$: see limit curve for arc-free operation
- DC load:** see limit curve for arc-free operation
- 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

Operating mode:	Continuous operation	
Temperature range:	- 20 ... + 45 °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 subject 94	
Vibration resistance:	Amplitude 0.35 mm, frequency 10 ... 55 Hz IEC/EN 60 068-2-6	
Climate resistance:	20 / 045 / 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:	Flat terminals with self-lifting clamping piece IEC/EN 60 999-1	
Mounting:	DIN rail IEC/EN 60 715	
Weight:	100 g	

Dimensions

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

Standard Type

IK 7827.81 AC 230 V 50 Hz 0.5 ... 10 s	
Article number:	0043335 stock item
• Output:	1 changeover contacts
• Nominal voltage U_N :	AC 230 V
• Time range:	0.5 ... 10 s
• Width:	17.5 mm

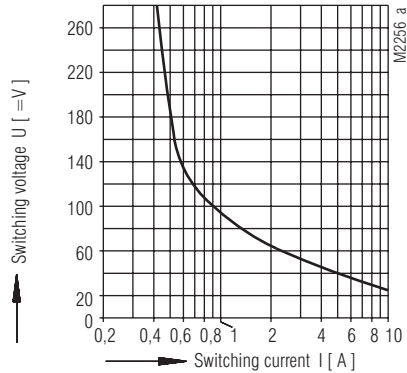
Variant

IK 7827.81/100: start with break

Ordering example for variant

IK 7827	.81 /	AC 230 V	50 Hz	1 s	
					Time range limit value
					Nominal frequency
					Nominal voltage
					Variant, if required
					Contact
					Type

Characteristics



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

Limit curve for arc-free operation