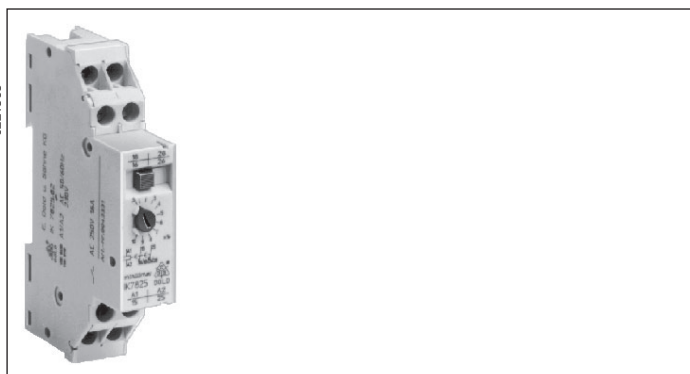


MINITIMER Flasher Relay IK 7827

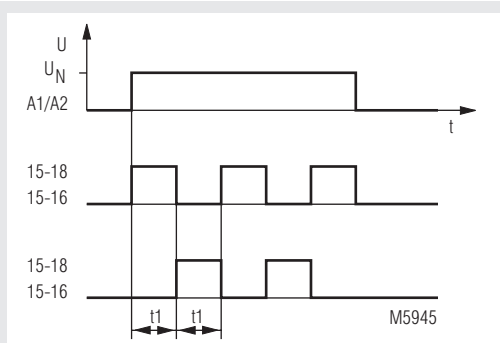


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- According to IEC/EN 61 812-1
- Pulse time up to 100 s
- IK 7827 start with pulse
- IK 7827/100 start with pause
- Repeat accuracy $\leq 0.5 \% + 10 \text{ ms}$
- Pushbutton for manual actuation of the contact
- 1 changeover contact for 16 A
- Width 17.5 mm

Function Diagram



Approvals and Markings



Application

- Time-dependent controllers

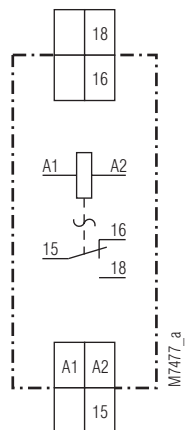
Indicators

Push button: pressed, when relay energized

Notes

A change of time setting is accepted directly.
If during elaps of time the time setting is changed, the output relay may switch unintentionally!

Circuit Diagram



Connection Terminals

Terminal designation	Signal description
A1	L / +
A2	N / -
15, 16, 18	Changeover contact

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:	steppless, 1:20 on relative scale
Recovery time:	approx. 60 ms (during run-down o the pulse time) approx. 700 ms (during run-down of the pause time)
Repeat accuracy:	< ± 0.5 % + 10 ms
Voltage influence:	< 1 % over voltage range
Temperature influence:	< 0.1 % / K
Input	
Nominal voltage U_N:	AC 24, 230 V DC 24 V
Voltage range:	90 ... 110 % U_N
Release voltage:	15 % U_N
Nominal consumption	
AC:	2.3 VA
DC:	1.5 W
Nominal frequency:	50 Hz
Frequency range:	± 5 %
Output	
Contacts	
IK 7827.81:	1 changeover contact
Contact material:	AgSnO ₂
Measured nominal voltage:	AC 250 V
Release time of the contacts:	< 30 ms
Thermal current I_{th}:	16 A
Electrical life	at 500 switching cycles / h
under ohmic load AC 230 V:	6 A 150 x 10 ⁴ switching cycles 10 A 72 x 10 ⁴ switching cycles 16 A 12 x 10 ⁴ switching cycles 10 A 10 x 10 ⁴ switching cycles
Inductive load cos φ 0.6:	
DC load:	see arc limit curve
Permissible switching frequency:	1000 switching cycles / h
Short circuit strength	
max. fuse rating:	16 A gG / gL IEC/EN 60 947-5-1
Mechanical life:	> 3 x 10 ⁶ switching cycles
General Data	
Operating mode:	Continuous operation
Temperature range	
Operation:	- 20 ... + 45 °C
Storage:	- 25 ... + 70 °C
Relative air humidity:	95 % at 40 °C
Altitude:	< 2,000 m
Clearance and creepage distances	
rated impulse voltage / pollution degree:	4 kV / 2 (basis insulation) IEC 60 664-1
Overvoltage category:	III
Insulation test voltage, type test:	2.5 kV; 1 min
EMC	
Electrostatic discharge:	8 kV (air) IEC/EN 61 000-4-2
HF irradiation	
80 MHz ... 2.7 GHz:	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
HF-wire guided:	10 V IEC/EN 61 000-4-6
Interference suppression:	Limit value class B EN 55 011

Technical Data	
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:	DIN 46 228-1/-2/-3/-4
Cross section:	2 x 2.5 mm ² solid or 2 x 1.5 mm ² stranded ferruled
Stripping length:	10 mm
Wire fixing:	Flat terminals with self-lifting clamping piece IEC/EN 60 999-1
Fixing torque:	0.8 Nm
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
• 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

