

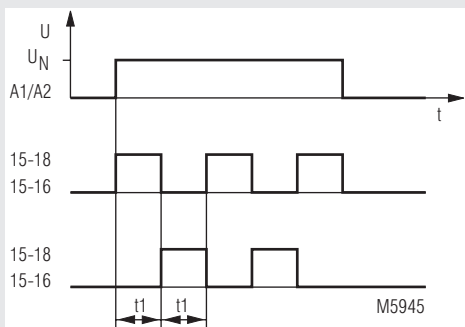
MINITIMER Flasher Relay MK 7851

0226729



- According to IEC/EN 61 812-1
- Adjustable flashing frequency, impulse time up to 300 s
- Repeat accuracy $< \pm 0.5 \%$
- Adjustable on absolute scale
- Start with impulse
- Available start with space
- Dual-voltage version
- LED indication for operation and contact position
- 2 changeover contacts
- Width 22.5 mm

Function Diagram



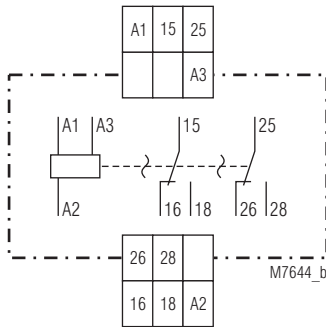
Approvals and Markings



Indicators

Upper LED: on, when supply connected
Lower LED: on, when output relay active (contact 15-18 closed)

Circuit Diagram



MK 7851

Connection Terminals

Terminal designation	Signal description
A1, A2, A3	Operating voltage
15, 16, 18 25, 26, 28	2 changeover contacts, delayed

Technical Data	
Time circuit	
Time ranges:	0.05 ... 1 s = 600...30 Impulses/min 0.15 ... 3 s 0.5 ... 10 s 1.5 ... 30 s 3 ... 60 s 5 ... 100 s 15 ... 300 s
Pulse duty factor:	1:1
Time setting:	steppless on absolute scale
Recovery time tw 50 / 100:	< 40 ms
Repeat accuracy:	± 0.5 % of the max. scale value
Voltage influence:	≤ 1 %
Temperature influence:	< 0.1 % / K

Input	
Nominal voltage U_N:	AC/DC 24 V ¹⁾ + AC 110 ... 127 V ²⁾ AC/DC 24 V ¹⁾ + AC 230 ... 240 V ²⁾ AC/DC 24 V ¹⁾ + AC/DC 42 V ²⁾ ¹⁾ at terminals A3 - A2 ²⁾ at terminals A1 - A2
Voltage range:	AC 0.8 ... 1.1 U_N DC 0.9 ... 1.25 U_N
Release voltage:	15 % U_N
Permissible residual current:	5 mA
Nominal consumption:	AC 230 V DC 24 V 8.5 VA 1 W
Nominal frequency:	50 / 60 Hz
Frequency range:	± 5 % f_N

Output	
Contacts:	2 changeover contacts
Contact material:	AgSnO ₂
Measured nominal voltage:	AC 250 V
Release time:	approx. 30 ms
Thermal current I_{th}:	5 A
Switching capacity to AC 15:	
NO contact:	3 A / AC 230 V IEC/EN 60 947-5-1
NC contact:	1 A / AC 230 V IEC/EN 60 947-5-1
Electrical life to AC 15 at 3 A, AC 230 V:	5 x 10 ⁵ switching cycles
Permissible siwtching frequency:	6 000 switching cycles / h
Short circuit strength max. fuse rating:	4 A gG / gL
Mechanical life:	> 30 x 10 ⁶ switching cycles

General Data	
Operating mode:	Continuous operation
Temperature range Operation:	- 20 ... + 60 °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 III
Overvoltage category:	
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 ... 1 GHz:	10 V / m IEC/EN 61 000-4-3
1 GHz ... 2.5 GHz:	3 V / m IEC/EN 61 000-4-3
2.5 GHz ... 2.7 GHz:	1 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 20 / 060 / 04 IEC/EN 60 068-1
Climate resistance:	EN 50 005
Terminal designation:	
Wire connection:	2 x 1.5 mm ² solid or stranded wire with sleeve DIN 46 228-1/-2/-3/-4
Insulation of wires or sleeve length:	8 mm
Wire fixing:	Flat terminals with self-lifting clamping piece IEC/EN 60 999-1
Fixing torque:	0.4 Nm
Mounting:	DIN rail IEC/EN 60 715
Weight:	150 g

Dimensions	
Width x height x depth:	22.5 x 82 x 99 mm

Standard Type	
MK 7851	AC/DC24V + AC220...240V 50/60Hz 0.5 ... 10 s
Article number:	0044846
• Output:	2 changeover contacts
• Nominal voltage U_N :	AC/DC 24 V + AC 220 ... 240 V
• Time range:	0.5 ... 10 s
• Width:	22.5 mm

Variant	
MK 7851.82/124:	Start with space

Accessories	
ET 4752-143:	Marking plate Article number: 0043203