

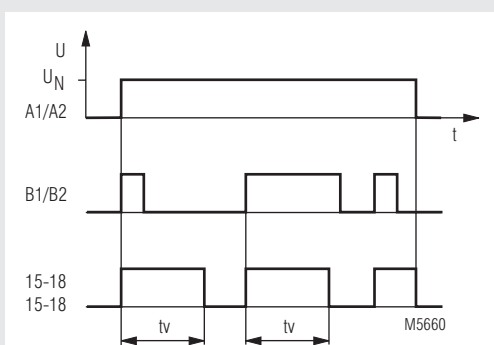
MINITIMER Pulse Extender MK 7856/024

0221576



- According to IEC/EN 61 812-1
- Converts pulses to selectable length
- No repeat control during the time period (of the pulse)
- Pulse lengthening / shortening
- Time range up to 60 min
- Repeat accuracy $\leq \pm 1 \%$
- Setting on absolute scale
- 2-voltage version
- LED displays for availability and contact position
- Available with 1 or 2 changeover contacts
- Width 22.5 mm

Function Diagram



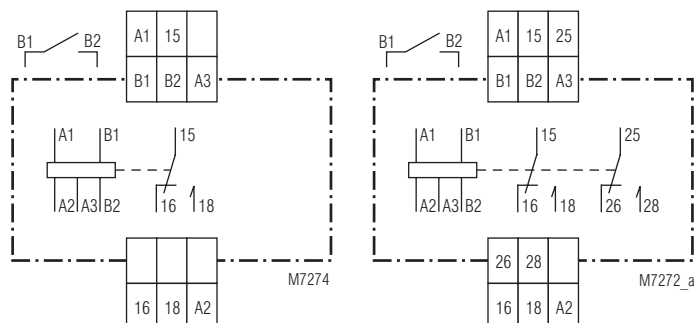
Approvals and Markings



Application

Time-dependent controllers

Circuit Diagram



MK 7856.71/024

MK 7856.72/024

Connection Terminals

Terminal designation	Signal description
A1, A2, A3	Power supply AC/DC
15, 16, 18	Changeover contacts (output relay)
25, 26, 28	Changeover contacts (2. output relay)

Technical Data			
Time circuit			
Time ranges:			
	0.05 ... 1 s	0.5 ... 10 min.	
	0.15 ... 3 s	1.5 ... 30 min.	
	0.5 ... 10 s	3 ... 60 min.	
	1.5 ... 30 s		
	3 ... 60 s		
	5 ... 100 s		
	15 ... 300 s		
Time setting:	stepless		
Min. switch-on time:	≥ 20 ms		
Repeat accuracy:	≤ ± 1 % of full-scale value		
Voltage influence:	≤ 1 %		
Temperature influence:	< 0.1 % / K		
Input			

Nominal voltage U_N:	AC/DC 24 ¹⁾ + AC/DC 42 V ²⁾		
	AC/DC 24 ¹⁾ + AC/DC 48 V ²⁾		
	AC/DC 24 ¹⁾ + AC 110 V ²⁾		
	AC/DC 24 ¹⁾ + AC 127 V ²⁾		
	AC/DC 24 ¹⁾ + AC 230 V ²⁾		
	AC/DC 24 ¹⁾ + AC 240 V ²⁾		
	1) at terminals A3 - A2		
	2) at terminals A1 - A2		
Voltage range:	0.8 ... 1.1 U _N		
Nominal consumption:	AC 230 V	7 VA	
	DC 24 V	0.8 W	
Nominal frequency:	50 / 60 Hz		
Frequency range:	± 5 % f _N		

Output		
Contacts		
MK 7856.71:	1 changeover contact	
MK 7856.72:	2 changeover contacts	
Contact material:	AgNi + 0.2 µm Au	
Measured nominal voltage:	AC 250 V	
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:	2 A / AC 230 V	IEC/EN 60 947-5-1
Electrical life	IEC/EN 60 947-5-1	
to AC 15 at 3 A, AC 230 V:	5 x 10 ⁵ switching cycles	
Permissible switching frequency:	6 000 switching cycles / h	
Short circuit strength		
max. fuse rating:	6 A gG / gL	IEC/EN 60 947-5-1
Mechanical life:	30 x 10 ⁶ switching cycles	

General Data		
Operating mode:	Continuous operation	
Temperature range:		
Operation:	- 20 ... + 60 °C	
Storage:	- 20 ... + 60 °C	
Altitude:	< 2,000 m	
Clearance and creepage distances		
rated impulse 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:	2 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
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 / 060 / 04	IEC/EN 60 068-1
Terminal designation:	EN 50 005	
Wire connection:	2 x 1.5 mm ² solid or 2 x 1.0 mm ² stranded wire with sleeve	
	DIN 46 228-1/-2/-3/-4	
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:	140 g	

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

Standard Type	
MK 7856.71/024	AC/DC24V + AC220...240V 50/60Hz 3s
Article number:	0030950
• Output:	1 changeover contact
• Nominal voltage U _N :	AC/DC 24 V + AC 220 ... 240 V
• Time range:	0.15 ... 3 s
• Width:	22.5 mm

Ordering example	
MK 7856 .71 /024	AC/DC 24 V + AC 230 V 50 / 60 Hz 60 min.
	Time range end value
	Nominal frequency
	Nominal voltage
	Variant
	Contact
	Type

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