

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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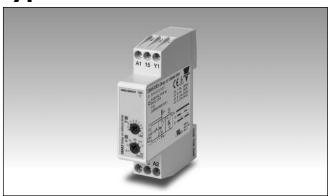






Timers Delay on Release Type DBA52





- Time range 0.1 s to 100 h
- . Knob selection of time range
- Knob-adjustable time setting
- Repeatability: ≤ 0.2%
- Output: 5 A SPDT relay
- For mounting on DIN-rail in accordance with DIN/EN 50 022
- 17.5 mm DIN-rail housing
- Combined AC and DC power supply
- LED indication for relay status and power supply ON

Product Description

Multi-voltage delay on release timer with 7 knob selectable time ranges within 0.1 s and 100 h.

For mounting on DIN-rail.

Ordering Key	DBA 52 C M24
Housing ————————————————————————————————————	
Туре ———	
Item number ————— Output —————	
Power supply —————	

Type Selection

Mounting	Output	Housing	Supply: 24 VDC and 24 to 240 VAC
DIN-rail	SPDT	D-Housing	DBA 52 C M24

Time Specifications

Time ranges Knob Selectable	0.1 to 1 s 1 to 10 s 6 to 60 s 60 to 600 s 0.1 to 1 h 1 to 10 h 10 to 100 h	
Setting accuracy	≤5%	
Repeatability	≤ 0.2%	
Time variation Within rated power supply Within ambient temperature	≤0.05%/V ≤0.2%/°C	
Reset Manual reset of time and/or relay Pulse duration Power supply interruption	Close the trigger contact between pins A1 and Y1 ≥ 100 ms ≥ 200 ms	

Output Specifications

Output		SPDT relay
Rated insulation voltage		250 VAC (rms)
Contact Ratings (Ag Resistive loads Small inductive loads	SnO ₂) AC 1 DC 12 AC 15 DC 13	μ 5 A @ 250 VAC 5 A @ 24 VDC 2.5 A @ 250 VAC 2.5 A @ 24 VDC
Mechanical life	DC 13	≥ 30 x 10 ⁶ operations
Electrical life		\geq 10 ⁵ operations (at 5 A, 250 V, cos φ = 1)
Operating frequency	,	< 7200 operations/h
Dielectric strength Dielectric voltage Rated impulse withs	stand volt.	2 kVAC (rms) 2.5 kV (1.2/50 µs)

Supply Specifications

Power supply Rated operational voltage through terminals:	Overvoltage cat. II (IEC 60664, IEC 60038)
A1, AŽ	24 VDC ±15% and 24 to 240 VAC +10%/-15%, 45 to 65 Hz
Voltage interruption	≤ 10 ms
Rated operational power AC supply DC supply	4 VA 1.5 W



General Specifications

Power ON delay	≤ 100 ms
Indication for Power supply ON Output relays ON	LED, green LED, yellow (flashing when timing)
Environment Degree of protection Pollution degree Operating temperature Storage temperature	(EN 60529) IP 20 2 (IEC 60664) -20° to +60°C, R.H. < 95% -30° to +80°C, R.H. < 95%
Housing Dimensions Material	17.5 x 81 x 67.2 mm PA66
Screw terminals Tightening torque	Approx. 75 g Max. 0.5 Nm according to IEC EN 60947
Approvals CE Marking	UL, CSA Yes
EMC Immunity Emission Timer Specifications	Electromagnetic Compatibility According to EN 61000-6-2 According to EN 61000-6-3 According to EN 61812-1

Mode of Operation

The relay operates as soon as the trigger contact is closed. The time period begins when the trigger contact is opened. The relay releases at the end of the set delay time or when the power supply is disconnected. The relay operates again when the input contact is closed again. If it is closed before the end of the delay time the relay keeps ON, a new time period begins as soon as the trigger contact is opened again.

Additional Load

It's possible to wire an additional load (i.e. a relay) between pins Y1 and A2 driven by the trigger contact without damaging the device (see wiring diagram).

Yellow LED working mode Timing: Slow blinking Relay ON: See operation diagrams

Incorrect knobs position: Fast blinking

Time Setting

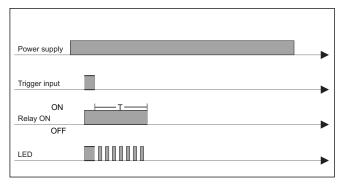
Centre knob:

Time setting on relative scale: 1 to 10 with respect to the chosen range.

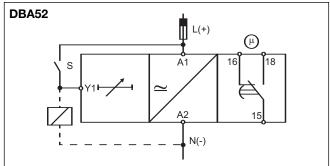
Lower knob:

Setting of time range.

Operating Diagram



Wiring Diagram



Dimensions

