Timers True Delay on Release Type DBB51





- Time range 1 to 600 s capacitor powered
- Knob-adjustable time setting
- · Automatic start after drop-out of power supply
- 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 (DIN 43880)
- Combined AC and DC power supply
- LED indication for relay status and power supply ON

Product Description

Multi voltage (true) delay on release timer.

Time ranges from 1 to 600 s covered by 3 models.

Housing 17.5 mm wide suitable for DIN-rail mounting. Fits in M36 cover.

Ordering key	DBB	51	C	N24	10M
Housing —	— П	Т	Т	T	1
Function —					
Туре					
Item number —					
Output —					
Power Supply ———					
Range —					

Type Selection

Mounting	Output	Time range	Supply: 24 VDC and 24 to 240 VAC	
For DIN-rail	SPDT	1 to 10 s	DBB 51 C M24 10S	
	SPDT	6 to 60 s	DBB 51 C M24 1M	
	SPDT	60 to 600 s	DBB 51 C M24 10M	

Time Specifications

<u>-</u>		
Time ranges Type 10 S Type 1 M Type 10 M	1 to 10 s 6 to 60 s 60 to 600 s	
Repeatability	≤ 0.2%	
Time variation Within rated power supply Within ambient temperature	≤ 0.05% ≤ 0.2%	
Reset DBB51CM2410S DBB51CM241M, DBB51CM2410M	Power supply applied for: ≥ 200 ms ≥ 200 ms ≥ 400 ms	

Supply Specifications

Power supply Rated operational voltage through terminals: A1, A2	Overvoltage cat. III (IEC 60664, IEC 60038) 24 VDC ± 15% and 24 to 240 VAC +10% -15%, 45 to 65 Hz
Voltage interruption	≤ 40 ms
Rated operational power AC supply: DC supply:	1.5 VA 0.06 W

Output Specifications

Output	SPDT relay		
Rated insulation voltage	250 VAC (RMS)		
$ \begin{array}{ccc} \textbf{Contact Ratings} \ (\text{AgS} \times \text{NO}_2) \\ \text{Resistive loads} & \text{AC 1} \\ \text{DC 12} \\ \text{Small inductive loads} & \text{AC 15} \\ \text{DC 13} \\ \end{array} $	μ 5 A @ 250 VAC 5 A @ 24 VDC 2.5 A @ 250 VAC 2.5 A @ 24 VDC		
Mechanical life	≥ 30 x 10 ⁶ operations		
Electrical life	$\geq 10^{s}$ operations (at 5 A, 250 V, cos $\phi = 1$)		
Operating frequency	< 7200 operations / h		
Dielectric strength Dielectric voltage Rated impulse withstand voltage	2 kVAC (RMS) 2.5 kV (1.2/50μs)		



General Specifications

Power ON delay	≤ 200 ms	Housing	
Power OFF delay	≤ 100 ms	Dimensions Material	17.5 x 81 x 67.2 mm PA66
Indication for		Weight	70 q
Power supply ON	LED, green		70 g
Output relay ON	LED, yellow (flashing when	Screw terminals	
	timing)	Tightening torque	Max 0.5 Nm according to
Environment	(EN 60529)		IEC EN 60947
Degree of protection IP 20 Pollution degree 3 (IEC 60664)	Approvals	UL, CSA	
	CE Marking	Yes	
Operating temperature		EMC	Electromagnetic Compatibility
Storage temperature		Immunity	According to EN 61000-6-2
		Emission	According to EN 61000-6-3
		Timer Specifications	According to EN 61812-1

Mode of Operation/Settings

When the power supply is applied the relay operates. When the power supply is interrupted the time period starts and, at the end of the set time period, the relay releases.

If power supply is reapplied

before the relay releases the time is reset and the relay remains ON.

Note:

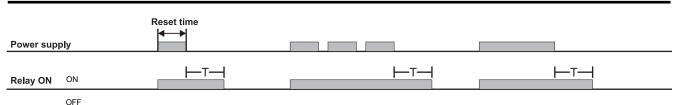
DBB51 shoud not be operated by pulses shorter than 200 ms.

For these puroposes the relay DMB51, operated by external contact function, should be used.

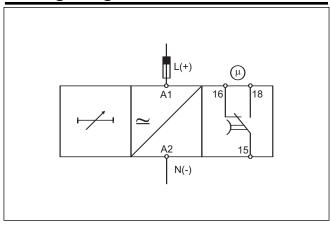
Time setting

Knob adjustable on absolute

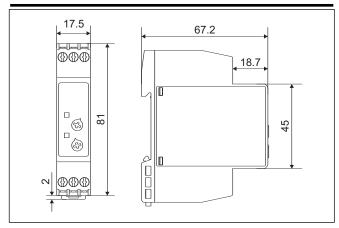
Operation Diagram



Wiring Diagram



Dimensions



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