Timers True Delay on Release Type DBB51

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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 M24 10M Housing Function Туре Item number Output Power Supply Range

• Time range 1 to 600 s - capacitor powered

 17.5 mm DIN-rail housing (DIN 43880) Combined AC and DC power supply

Automatic start after drop-out of power supply

• For mounting on DIN-rail in accordance with DIN/EN

LED indication for relay status and power supply ON

Knob-adjustable time setting

• Repeatability: ≤ 0.2% Output: 5 A SPDT relay

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Type Selection

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

Time Specifications

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 \pm 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)	
Contact Ratings (AgSnO ₂)		μ	
Resistive loads	AC 1	5 A @ 250 VAC	
Small inductive loads	DC 12 AC 15 DC 13		
Mechanical life		\geq 30 x 10° 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 withsta	and	2 kVAC (RMS)	
voltage		2.5 kV (1.2/50μs)	



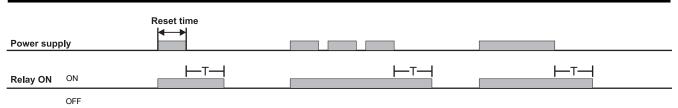
General Specifications

Power ON delay Power OFF delay	≤ 200 ms ≤ 100 ms	Housing Dimensions	17.5 x 81 x 67.2 mm PA66
Indication for Power supply ON	LED, green	Material Weight	70 g
Output relay ON	LED, yellow (flashing when timing)	Screw terminals Tightening torque	Max 0.5 Nm according to IEC EN 60947
Environment Degree of protection	gree of protectionIP 20Ilution degree3 (IEC 60664)verating temperature-20 to 60 °C, R.H. < 95%	Approvals	UL, CSA
Pollution degree		CE Marking	Yes
Storage temperature		EMC Immunity Emission	Electromagnetic Compatibility According to EN 61000-6-2 According to EN 61000-6-3
		Timer Specifications	According to EN 61812-1

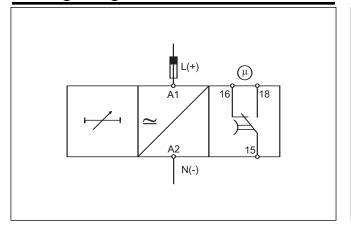
Mode of Operation/Settings When the applied

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	before the relay releases the time is reset and the relay remains ON.	For these puroposes the relay DMB51, operated by external contact function, should be used.	
set time period, the relay	DBB51 shoud not be oper-	Time setting	
releases.	ated by pulses shorter than	Knob adjustable on absolute	
If power supply is reapplied	200 ms.	scale.	

Operation Diagram



Wiring Diagram



Dimensions

