Timers True delay on release Types DBB01, PBB01







- Time range 0.1 to 600 s capacitor powered
- 4 time ranges selectable by DIP-switches
- Knob-adjustable time setting
- Automatic start after drop-out of power supply
- Repeatability: ≤ 0.2%
- Output: 8 A SPDT or 8 A DPDT relay
- For mounting on DIN-rail in accordance with DIN/EN 50 022 or Plug-in
- 22.5 mm Euronorm or 36 mm Plug-in module housing
- Combined AC and DC power supply
- . LED indication for relay status and power supply ON

Product Description

Multi voltage true delay on release timer with 4 time ranges from 0.1 to 600 s selectable by DIP-switches.

For mounting on DIN-rail (DBB01) or Plug-in (PBB01).

Ordering key	DBB 01 C M24
Housing —	
Function	
Type	
Item number ———	
Output —	
Power Supply	

Type Selection

Mounting	Output	Housing	Supply: 24 to 240 VAC/DC
For DIN-rail	SPDT	D - Housing	DBB 01 C M24
	DPDT	D - Housing	DBB 01 D M24
Plug-in	SPDT	P - Housing	PBB 01 C M24
•	DPDT	P - Housing	PBB 01 D M24

Time Specifications

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Time ranges Selectable by DIP-switches	0.1 to 1 s 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	Power supply applied for min. 200 ms	

Output Specifications

Output		SPDT or DPDT relay	
Rated insulation voltage		250 VAC (RMS)	
Contact Ratings (AgNi)		μ	
Resistive loads	AC 1 DC 12	8 A @ 250 VAC 5 A @ 24 VDC	
Small inductive loads	AC 15 DC 13		
Mechanical life		≥ 2 x 10 ⁶ operations	
Electrical life	AC1	≥ 10 ⁵ operations (at max load)	
Operating frequency		< 3600 operations / h	
Dielectric strength Dielectric voltage Rated impulse withstavoltage	and	2 kVAC (RMS) 4 kV (1.2/50μs)	



Supply Specifications

Power supply Rated operational voltage through terminals:	Overvoltage cat. III (IEC 60664, IEC 60038)
(DBB01) A1, A2 (PBB01) 2, 10	24 to 240 VAC/DC +10% -15%, 45 to 65 Hz
Voltage interruption	≤ 40 ms
Rated operational power AC supply: DC supply:	2.2 VA 0.6 W

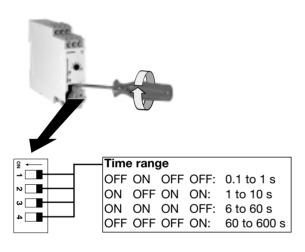
Range/Time Setting

Adjust the time range setting the DIP-switches 1 and 2 as shown below.

To access the DIP-switches open the plastic cover using a screwdriver as shown

below. Centre knob:

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



General Specifications

Power ON delay	≤ 200 ms
Power OFF delay	≤ 100 ms
Indication for	
Power supply status	LED, green
Output status	LED, yellow (flashing when timing)
Environment	(EN 60529)
Degree of protection	IP 20
Pollution degree	3 (DBB01), 2 (PBB01) (IEC 60664)
Operating temperature	-20 to 60 °C, R.H. < 95%
Storage temperature	-30 to 80 °C, R.H. < 95%
Weight	Approx 120 g
Screw terminals	(DBB01)
Tightening torque	Max 0.5 Nm according to IEC EN 60947
Approval	UL
CE Marking	Yes
EMC	Electromagnetic Compatibility
Immunity	According to EN 61000-6-2
Emission	According to EN 50081-1
Timer Specifications	According to EN 61812-1

Mode of Operation

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

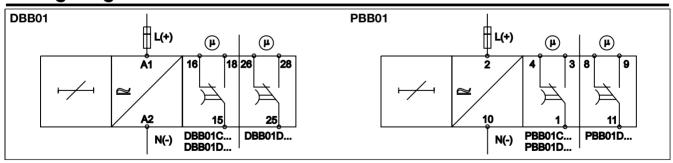
Note:

used.

DBB01, PBB01 shoud not be operated by pulses shorter than 200 ms. For these puroposes the relays DMB01 or PMB01, operated by external con-

tact function, should be

Wiring Diagrams



Operation Diagram

