

## Electronic Timer - Series Staircase

- Multi Function/Mono Function Staircase Timer in compact 17.5mm
- Time Range: 0.5min - 20min
- Long Run mode with Time range from 0.5h - 20h
- Functions with Pre-Warning, Cut-Off & Release Delay
- Maintenance Mode available
- Switch indications (Glow-lamps / Pilot lamps) upto 50 mA
- 3 Wire & 4 Wire Configurations



Cat. No.		27B1C3B1	
<b>Parameters</b>			
Timer Description		<b>Staircase Timer</b>	
Modes		1) Staircase Relay 2) Staircase Relay with Pre-Warning 3) Staircase Relay with Cut-Off 4) Staircase Relay with Cut-Off & Pre-Warning 5) Timing Step with Release Delay & Cut-Off 6) Timing Step with Release Delay, Cut-Off & Pre-Warning 7) Long Run 8) Long Run with Pre-Warning 9) Step Relay 10) Permanent ON 11) Maintenance Mode	
Supply Voltage ( $\phi$ )		230 VAC	
Supply Variation		- 25% to +15% (of $\phi$ )	
Frequency		50 Hz	
Power Consumption (Max.)		3 VA	
Timing Ranges		0.5m, 2m, 4m, 6m, 9m, 15m, 20m (The unit will change from minutes to hours for 'Long Run' modes )	
Reset Time		500 ms (Max.)	
Signal Sensing Time		40 ms < Ts < 5 s (For modes 1, 2, 3, 4, 5, 6, 9) & Ts ≥ 5s (For modes 7, 8, 11)	
Maintenance Mode		If the Relay is 'OFF' and the signal is present for 5 sec or more (Ts ≥ 5 s), the timer will enter 'Maintenance mode'	
Setting Accuracy		± 5% of Marking	
Repeat Accuracy		± 1%	
Output	Relay Output	1 NO (Pole is internally shorted with 'Live')	
	Contact Rating	16A @ 230 VAC (Resistive)	
	Electrical Life	1X10 <sup>5</sup>	
	Mechanical Life	5X10 <sup>6</sup>	
Utilization Category	AC - 15	Rated Voltage (Uc): 120/240 V, Rated Current (Ic): 3.0/1.5 A	
	DC - 13	Rated Voltage (Uc): 24/125/250 V, Rated Current (Ic): 2.0/0.22/0.1 A	
Operating Temperature		-10°C to +60°C	
Storage Temperature		-15°C to +70°C	
LED Indication		Green LED → Power ON, Yellow LED → Relay ON	
Enclosure		Flame Retardant UL94-V0	
Dimension (W x H x D) (in mm)		18 X 85 X 65	
Weight (unpacked)		70 g	
Mounting		Base / DIN Rail	
Certification		 	
Degree of Protection		IP 20 for Terminals, IP 40 for Enclosure	
<b>EMI / EMC</b>			
Harmonic Current Emissions	IEC 61000-3-2	Ed. 3.0 (2005-11) Class A	
ESD	IEC 61000-4-2	Ed. 1.2 (2001-04) Level II	
Radiated Susceptibility	IEC 61000-4-3	Ed. 3.0 (2006-02) Level III	
Electrical Fast Transients	IEC 61000-4-4	Ed. 2.0 (2004-07) Level IV	
Surges	IEC 61000-4-5	Ed. 2.0 (2005-11) Level IV	
Conducted Susceptibility	IEC 61000-4-6	Ed. 2.2 (2006-05) Level III	
Voltage Dips & Interruptions (AC)	IEC 61000-4-11	Ed. 2.0 (2004-03) Level All 7 Levels	
Voltage Dips & Interruptions (DC)	IEC 61000-4-29	Ed. 1.0 (2000-08) Level All 5 Levels	
Conducted Emission	CISPR 14-1	Ed. 5.0 (2005-11) Class B	
Radiated Emission	CISPR 14-1	Ed. 5.0 (2005-11) Class A	
<b>Environmental</b>			
Cold Heat	IEC 60068-2-1	Ed. 6.0 (2007-03)	
Dry Heat	IEC 60068-2-2	Ed. 5.0 (2007-07)	
Vibration	IEC 60068-2-6	Ed. 7.0 (2007-12) 5g	
Repetitive Shock	IEC 60068-2-27	Ed. 4.0 (2008-02) 40g, 6ms	
Non-Repetitive Shock	IEC 60068-2-27	Ed. 4.0 (2008-02) 30g, 15ms	

### ORDERING INFORMATION

27	□	□	□	3	□	B	□			
<b>Casing Colour</b>		<b>Mode</b>		<b>Output Relay Contact</b>						
□	B Casing: White & Knob: Red		1	C	Multi Mode			1	1 'NO', 16A, 120A/20ms (Peak Inrush Current)	
□	C Casing: Dark Grey & Knob: Green		2	B	Mono Mode			2	1 'NO', 16A, 80A/20ms (Peak Inrush Current)	

\* For Mono Mode the available mode is 'Timing Step with Release Delay & Cut-Off'