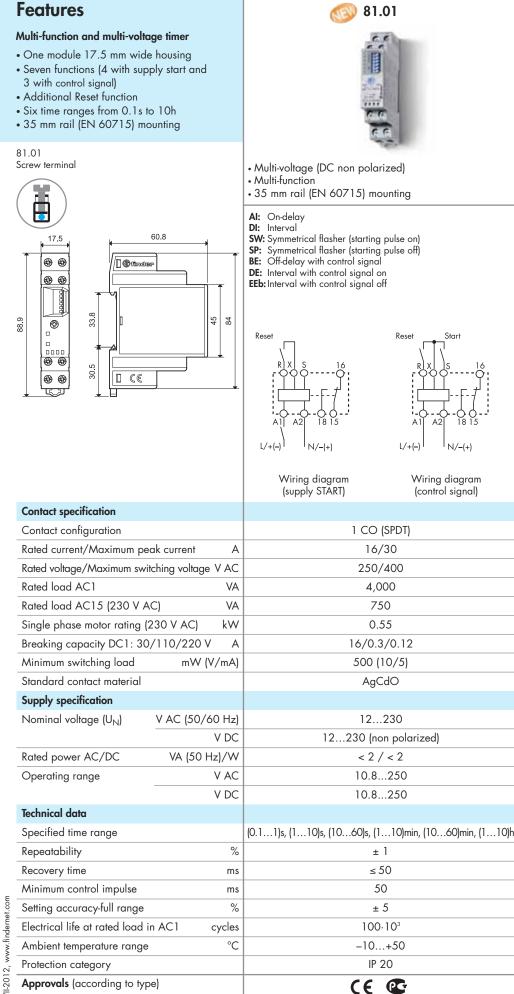
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81 Series - Modular timers 16 A

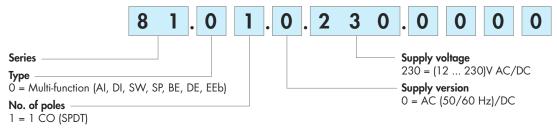


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Ordering information

Example: 81 series, modular timer multi-voltage, 1 CO (SPDT) - 16 A, supply rated at (12...230)V AC/DC.



Technical data

EMC specifications						
Type of test			Reference standard			
Electrostatic discharge	contact discharge		EN 61000-4-2	4 kV		
	air discharge		EN 61000-4-2	8 kV		
Radio-frequency electromagnetic field (80 ÷ 1,000 MHz)		EN 61000-4-3	10 V/m			
Fast transients (burst) (5-50 ns, 5 kHz) on Supply terminals		EN 61000-4-4	4 kV			
Surges (1.2/50 µs) on Supply terminals	common mode	common mode		4 kV		
	differential mode		EN 61000-4-5	4 kV		
Radio-frequency common mode (0.15 ÷ 80 MHz) on Supply terminals		EN 61000-4-6	10 V			
Radiated and conducted emission			EN 55022	class A		
Other data						
Current absorption on signal control (B1)			< 1 mA (S-X)	< 1 mA (R-X)		
Voltage potential on the input terminal R - X and S -X		Not galvanic separation from the supply voltage on A1 - A2				
Power lost to the environment	without contact current	W	1.3			
	with rated current	W	3.2	3.2		
Generation Screw torque		Nm	0.8			
Max. wire size			solid cable	stranded cable		
		$\rm mm^2$	1x6 / 2x4	1x4 / 2x2.5		
		AWG	1x10 / 2x12	1x12 / 2x14		

Time range	(0.11)s	(110)s	(1060)s	(110)min	(1060)min	(110)h
setting	1	1	1	1	1	1
	3	3	3	3	3	3
	4	4	4	4	4 5	4 5
	6	6	6	6	6	6

NOTE: time range and function must be set before energising the timer.



81 Series - Modular timers 16 A

Functions

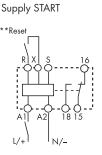
- U = Supply voltage
- **S** = Signal switc
- **R** = Reset
- ---- = Output conta

tage	LED	LED	Supply	NO output	Con	tacts
tch	(green)	(red)	voltage	contact	Open	Closed
			OFF	Open	15 - 18	15 - 16
ntact			ON	Open	15 - 18	15 - 16
			ON	Closed	15 - 16	15 - 18

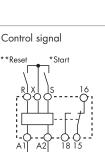
Supply Start = Start via contact in supply line (A1).

Control signal = Start via contact into control terminal (X-S).

Wiring diagram



**Connection of the Reset (R-X) is optional



* Terminals R, S & X must not be directly connected to the timer supply voltage, but they should be considered to be at supply voltage potential for the purposes of insulation.

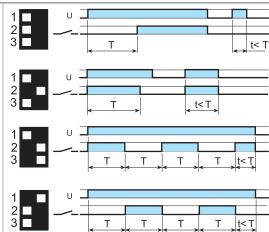
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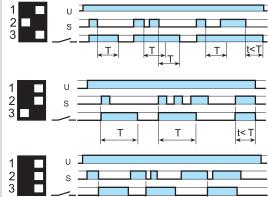
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**Connection of the Reset (R-X) is optional

RESET function (R)

For each and every function and time range, the timer is immediately reset when the reset switch is closed.





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(AI) On-delay.

Apply power to timer. Output contacts transfer after preset time has elapsed. Reset occurs when power is removed.

(DI) Interval.

Apply power to timer. Output contacts transfer immediately. After the preset time has elapsed, contacts reset.

(SW) Symmetrical flasher (starting pulse on).

Apply power to timer. Output contacts transfer immediately and cycle between ON and OFF for as long as power is applied. The ratio is 1:1 (time on = time off).

(SP) Symmetrical flasher (starting pulse off).

Apply power to timer. First transfer of contact occurs after preset time has elapsed. The timer now cycles between OFF and ON as long as power is applied. The ratio is 1:1 (time on = time off).

(BE) Off-delay with control signal.

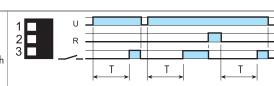
Power is permenently applied to the timer. The output contacts transfer immediately on closure of the Signal Switch (S). Opening the Signal Switch initiates the preset delay, after which time the output contacts reset.

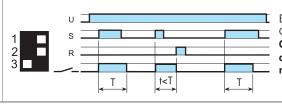
(DE) Interval with control signal on.

Power is permenently applied to the timer. On momentary or maintained closure of Signal Switch (S), the output contacts transfer, and remain so for the duration of the preset delay, after which they reset.

(EEb) Interval with control signal off.

Power is permenently applied to the timer. On opening of the Signal Switch (S) the output contacts transfer, and remain so for the duration of the preset delay, after which they reset.





Example:

Example:

function.

Control signal; ON pulse function.

Supply START; ON delay function

Closing the external reset switch terminates the interval time and resets the timer. To re-start, it is necessary to open the reset switch, before closing the control signal contact.

Closing the external reset switch immediately resets the

timer. Opening the reset switch re-initiates the timing

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81 Series - Modular timers 16 A

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Accessories

Identification tag, for types 81.01, plastic, 1 tag, 17x25.5 mm	019.01

Sheet of marker tags, for types 81.01, plastic, 72 tags, 6x12 mm

019.01

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