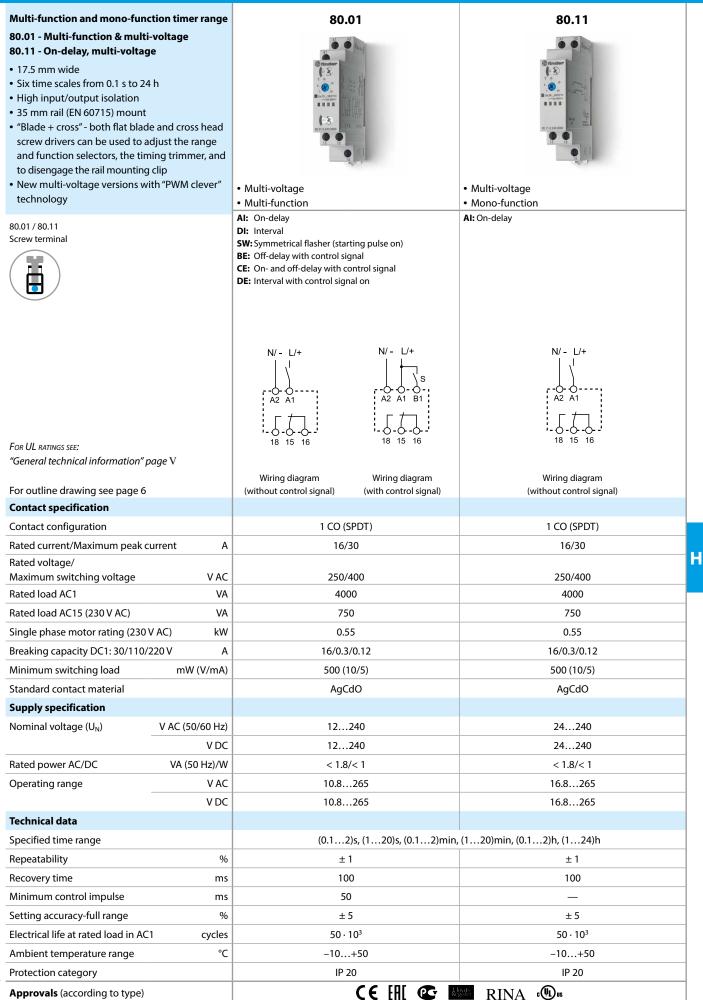


80 Series - Modular timers 16 A

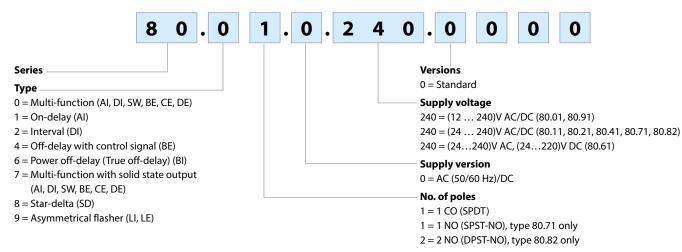
1





Ordering information

Example: 80 series, modular timers, 1 CO (SPDT) - 16 A, supply rated at (12...240)V AC/DC.



Technical data

Insulation							
Dielectric strength			80.01/11/21/41/82/91		80.61	80.71	
	between input and output circuit	V AC	4000		2500	2500	
	between open contacts	V AC	1000	1000		_	
Insulation (1.2/50 µs) between input	ut and output	kV	6		4 4		
EMC specifications							
Type of test			Reference standard	80.01/11/21/	41/61/71/91	80.82	
Electrostatic discharge	contact discharge	contact discharge		4 kV		4 kV	
	air discharge		EN 61000-4-2 8 kV			8 kV	
Radio-frequency electromagnetic field (80 ÷ 1000 MHz)			EN 61000-4-3	10 V/m		10 V/m	
Fast transients (burst) (5-50 ns, 5 kł	Hz) on Supply terminals		EN 61000-4-4	4 kV 4 kV			
Surges (1.2/50 µs) on Supply terminals	nals common mode		EN 61000-4-5	4 kV		4 kV	
	differential mode		EN 61000-4-5	4 kV		4 kV	
on start terminal (B1)	common mode		EN 61000-4-5	4 kV		4 kV	
	differential mode		EN 61000-4-5	4 kV	4 kV		
Radio-frequency common mode (0	0.15 ÷ 80 MHz) on Supply terminals		EN 61000-4-6	10 V		10 V	
Radiated and conducted emission			EN 55022	class B		class A	
Other data							
Current absorption on signal control (B1)			< 1 mA				
Power lost to the environment	without contact curr	ent W	/ 1.4				
	with rated current	W	3.2				
Grew torque		Nm	0.8				
Max. wire size			solid cable stranded cable		e		
		mm²	1 x 6 / 2 x 4		1 x 4 / 2 x 2.5		
		AWG	1 x 10/2 x 12 1 x 12/2 :		1 x 12 / 2 x 14	x 14	

Accessories

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2							

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Sheet of marker tags, for types 80.01/11/21/41/61/71, plastic, 72 tags, 6 x 12 mm

Sheet of marker tags, for types 80.82, plastic, 24 tags, 9 x 17 mm

060.72

020.24

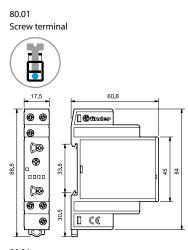
020.24

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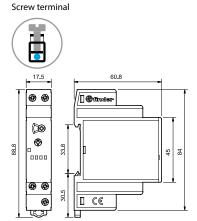




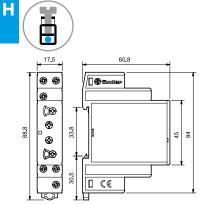
Outline drawings





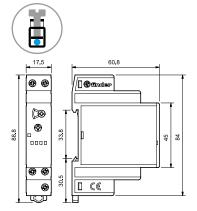


80.91 Screw terminal

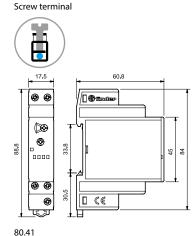


80.61

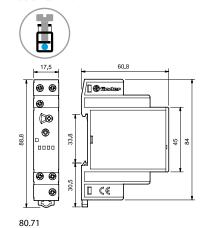
Screw terminal



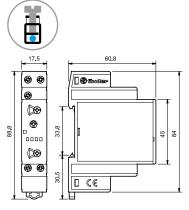
80.11



80.41 Screw terminal

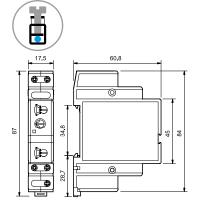


Screw terminal



80.82





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80 Series - Modular timers 1 - 6 - 8 - 16 A

Functions

U = Supply voltage

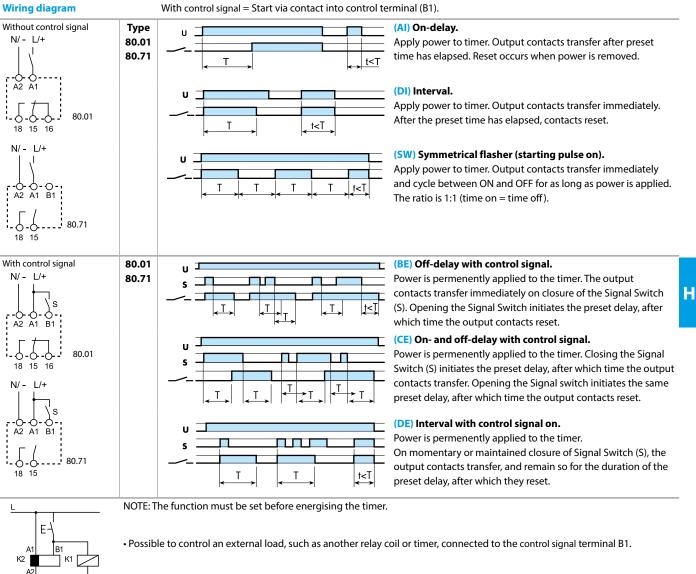
```
S = Signal switch
```

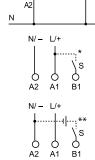
```
_____ = Output contact
```

LED*	Supply voltage	NO output	Contacts	
LED		contact	Open	Closed
	OFF	Open	15 - 18	15 - 16
	ON	Open	15 - 18	15 - 16
	ON	Open (Timing in Progress)	15 - 18	15 - 16
	ON	Closed	15 - 16	15 - 18

* The LED on type 80.61 is illuminated only when the supply voltage is applied to the timer; during the timing period the LED is not illuminated.

Without control signal = Start via contact in supply line (A1). With control signal = Start via contact into control terminal (B1).





** A voltage other than the supply voltage can be applied to the command Start (B1), example: A1 - A2 = 230 V AC B1 - A2 = 12 V DC

* With DC supply, positive polarity has to be connected to B1 terminal (according to EN 60204-1).

A2

B1

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80 Series - Modular timers 6 - 8 - 16 A



Functions

Wiring diagram Without control signal (AI) On-delay. Туре u N/- L/+ 80.11 Apply power to timer. Output contacts transfer after preset time has elapsed. Reset occurs when power is removed. t<T A2 Ã1 80.21 (DI) Interval. U Apply power to timer. Output contacts transfer immediately. After the preset time has elapsed, contacts reset. t<T 18 15 16 80.11/21/61 80.61 (BI) Power off-delay (True off-delay). Apply power to timer (minimum 500 ms). Output contacts N/ - 1/+transfer immediately. Removal of power initiates the preset Т delay, after which time the output contacts reset. (SD) Star-delta. 80.82 U A2 A1 Apply power to timer. The star contact (\downarrow) closes immediately. 人 After preset delay has elapsed the star contact (\downarrow) resets. Δ After a further transfer time variable from (0.05...1)s the delta Tu=(0.05...1)s 17 18 人 28 Δ contact (Δ) closes and remains in that position, until reset on 80.82 power off. With control signal 80.41 (BE) Off-delay with control signal. Т Л U N/- L/+ Power is permenently applied to the timer. s The output contacts transfer immediately on closure of the S Signal Switch (S). Opening the Signal Switch initiates the preset Т J>t delay, after which time the output contacts reset. Ă1 B A2 15 18 80.41 Without control signal 80.91 (LI) Asymmetrical flasher (starting pulse on). υ N/- L/+ Apply power to timer. Output contacts transfer immediately and cycle between ON and OFF for as long as power is applied. lt<T≀ Tı T2 T1 T2 The ON (T1) and OFF (T2) times are independently adjustable. Η A2 Ă1 B1 18 15 (LE) Asymmetrical flasher (starting pulse on) with control υ 80.91 signal s With control signal Power is permenently applied to the timer. N/- L/+ Closing Signal Switch (S) causes the output contacts to transfer T1 | T2 T1 | T2 t<T1 immediately and cycle between ON (T1) and OFF (T2), until S opened. A2 B1 18 15 16 80.91 E • Possible to control an external load, such as another relay coil or timer, connected to the control signal terminal B1. B1 K2 K1 Ν N/ --L/+ With DC supply, positive polarity has to be connected to B1 terminal (according to EN 60204-1). ∖¦s 0 Ó A2 Ó A1 B1 ** A voltage other than the supply voltage can be applied to the command Start (B1), example: N/ - 1/+

\`S O B1

ර් A2 A1 A1 - A2 = 230 V AC

B1 - A2 = 12 V DC