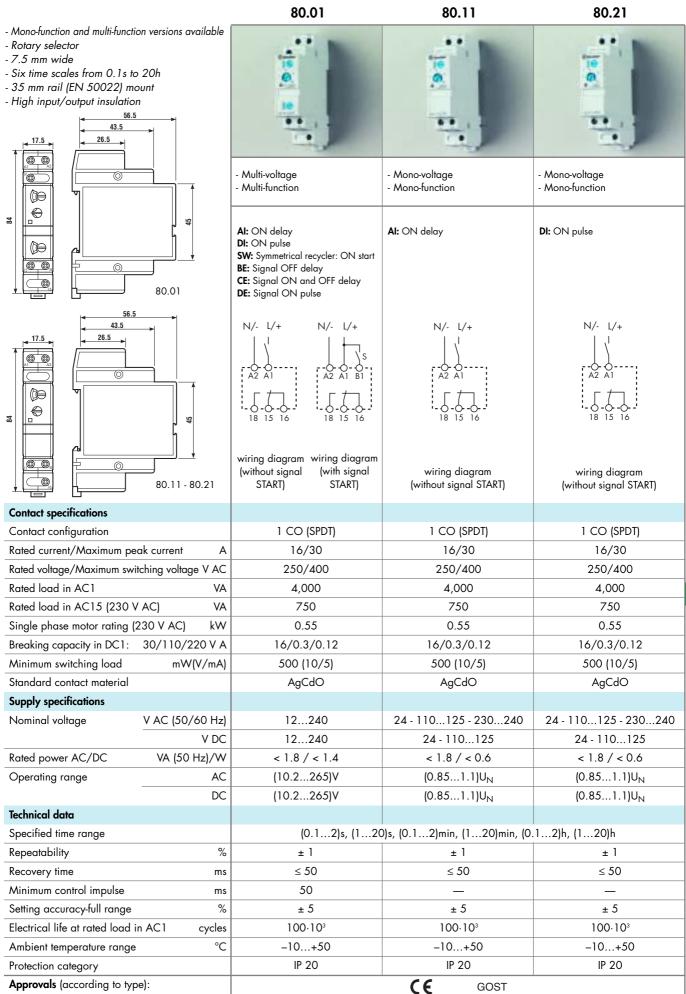
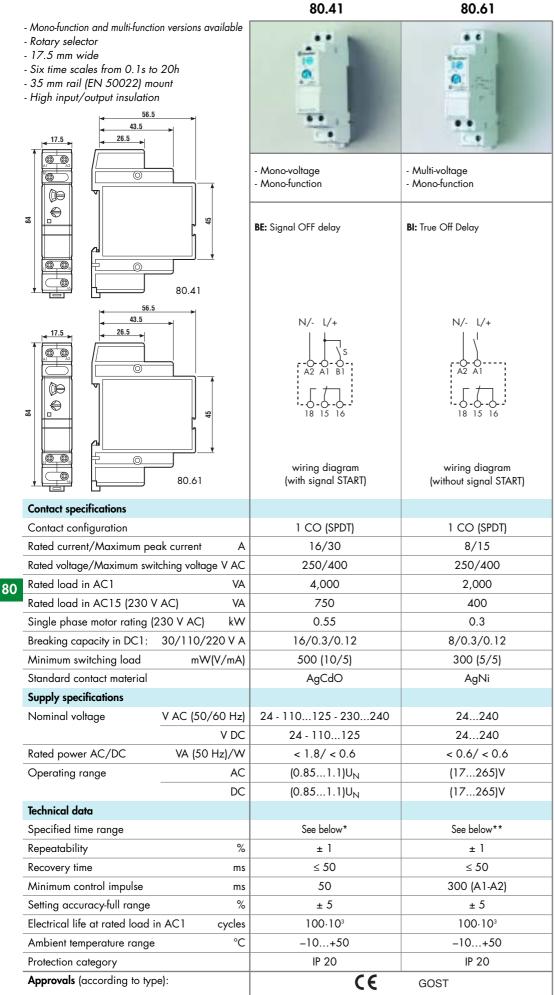


### 80 Series - Modular timers 6 - 8 - 16 A



## finder

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



\*Type 80.41: (0.1...2)s, (1...20)s, (0.1...2)min, (1...20)min, (0.1...2)h, (1...20)h

\*\*Type 80.61: (0.1...1)s, (0.5...5)s, (2...20)s, (0.2...2)min



Protection category

Approvals (according to type):

80.82 80.91 - Mono-function and multi-function versions available - Rotary selector - 17.5 mm wide - Six time scales from 0.1s to 20h - 35 mm rail (EN 50022) mount - High input/output insulation 43.5 26.5 , 17.5 00 Multi-voltage - Multi-voltage - Mono-function - Transfer time can be regulated (0.05...1)s - Mono-function € 84 45 SD: Star-Delta LI: Asymmetrical recycler (ON starting) LE: Signal asymmetrical recycler 0 0 (ON starting) 0 80.82 56.5 43.5 N/- L/+ N/- L/+ N/-1/4 26.5 17.5 00 6 ()e  $\ominus$ 84 12  $\ominus$ () wiring diagram wiring diagram 00 C wiring diagram (without signal (with signal 6 (without signal START) 80.91 START) START) **Contact specifications** 2 NO (DPST-NO) 1 CO (SPDT) Contact configuration Rated current/Maximum peak current A 6/10 16/30 Rated voltage/Maximum switching voltage V AC 250/400 250/400 Rated load in AC1 1,500 4,000 VA Rated load in AC15 (230 V AC) VA 300 750 Single phase motor rating (230 V AC) kW 0.55 \_\_\_\_ Breaking capacity in DC1: 30/110/220 V A 6/0.2/0.12 16/0.3/0.12 Minimum switching load mW(V/mA) 500 (12/10) 500 (10/5) Standard contact material AgNi AgCdO Supply specifications V AC (50/60 Hz) 12...240 12...240 Nominal voltage V DC 12...240 12...240 Rated power AC/DC VA (50 Hz)/W < 1.3/ < 0.8 < 1.8/ < 1.4 (10.2...265)V (10.2...265)V Operating range AC DC (10.2...265)V (10.2...265)V Technical data See below\*\* Specified time range See below\* ± 1 Repeatability % ± 1 ≤ 50 ≤ 50 Recovery time ms Minimum control impulse 50 50 ms % ± 5 ± 5 Setting accuracy-full range Electrical life at rated load in AC1 60.10<sup>3</sup> 100·10<sup>3</sup> cycles °C -10...+50 -10...+50 Ambient temperature range

IP 20

CE

\*Type 80.82: (0.1...2)s, (1...20)s, (0.1...2)min, (1...20)min

IP 20

GOST

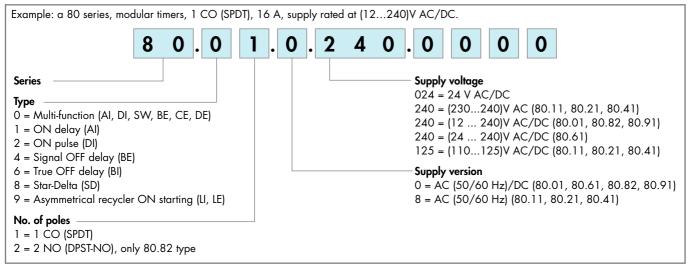
80

<sup>\*\*</sup>Type 80.91: (0.1...2)s, (1...20)s, (0.1...2)min, (1...20)min, (0.1...2)h, (1...20)h

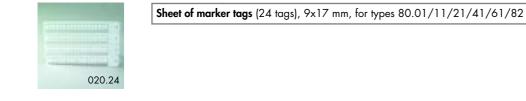


020.24

### **ORDERING INFORMATION**



### **ACCESSORIES**



### **TECHNICAL DATA**

#### **EMC SPECIFICATIONS**

	TYPE OF TEST		REFERENCE STANDARD	
	Electrostatic discharge	- contact discharge	EN 61000-4-2	4 kV
80		- air discharge	EN 61000-4-2	8 kV
	Radio-frequency electromagnetic field (80 ÷ 1000 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	EN 61000-4-5	4 kV
	-	- differential mode	EN 61000-4-5	4 kV
	on start terminal (B1)	- common mode	EN 61000-4-5	4 kV
	-	- differential mode	EN 61000-4-5	4 kV
	Radio-frequency common mode (0.15 ÷ 80 MHz) on Supply terminals Radiated and conducted emission		EN 61000-4-6	10 V
			EN 55022	class B

#### INSULATION

Dielectric strength			80.01/11/21/41/82/91	80.61
	- between input and output circuit	V AC	4,000	2,500
	- between open contacts	V AC	1,000	1,000
Insulation (1.2/50 µs) k	petween input and output	kV	6	4

OTHER DATA

Current absorption on signal control (B1)			< 1 mA		
Power lost to the environment					
	without contact current	W	1.4		
	with rated current	W	3.2		
Max wire size			solid cable	stranded cable	
		mm <sup>2</sup>	1x6 / 2x4	1x4 / 2x2.5	
		AWG	1x10 / 2x12	1x12 / 2x14	
Screw torque		Nm	0.8		
141					

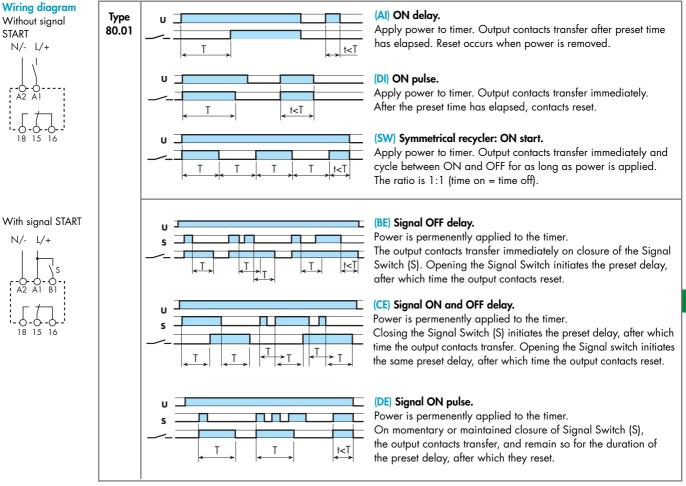


### **FUNCTIONS**

<b>U</b> = Supply voltage	LED*	Supply voltage	NO output contact	Contacts Open   Closed	
		volidge	coniuci	Open	Closed
<b>S</b> = Signal switch		OFF	Open	15 - 18	15 - 16
= Output contact		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 signal Start = Start via contact in supply line (A1). With signal Start = Start via contact into control terminal (B1).



NOTE: time scales and functions must be set before energising the timer.

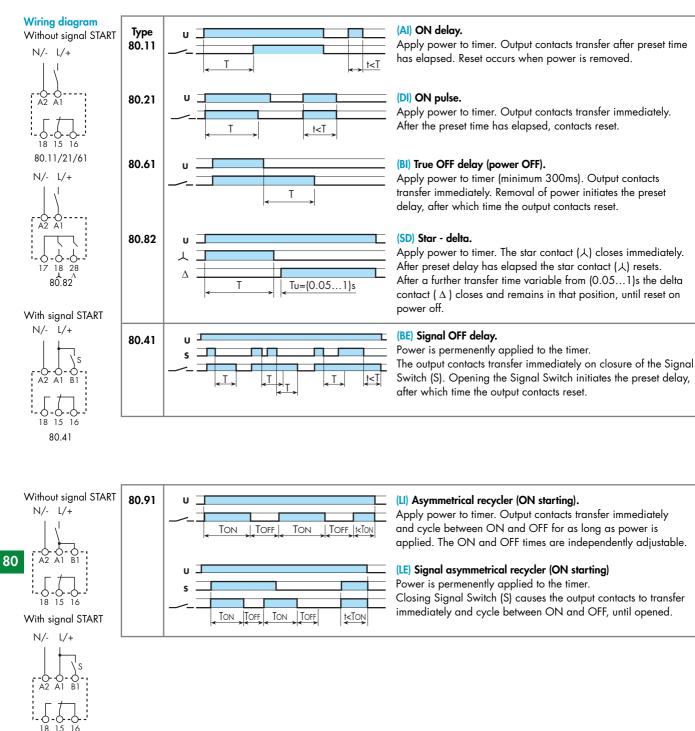


\* - With DC supply, positive polarity has to be connected to B1 terminal (according to EN 60204-1).
- A voltage other than the supply voltage can be applied to the command Start (B1), example: A1 - A2 = 230 V AC



# finder

### **FUNCTIONS**



NOTE: time scales and functions must be set before energising the timer.



80.91

\* - With DC supply, positive polarity has to be connected to B1 terminal (according to EN 60204-1).
- A voltage other than the supply voltage can be applied to the command Start (B1), example: A1 - A2 = 230 V AC

$$B1 - A2 = 12 V DC$$