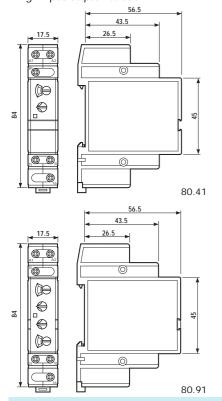


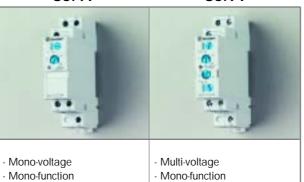


- 17.5 mm wide
- Six time scales from 0.1s to 20h

- Mono-function and multi-function versions available

- 35 mm rail (EN 50022) mount
- High input/output insulation





BE: Signal OFF delay

- Mono-function

LI: Asymmetrical recycler (ON starting) LE: Signal asymmetrical recycler (ON starting)



wiring diagram

(with signal START)

1 CO

24 - 230...240

CE

GOST

wiring diagram wiring diagram (without signal (with signal START) START)

1 CO

12...240

Contact specifications
Contact configuration

Rated current/Maximum peak current A	16/30	16/30
Rated voltage/Maximum switching voltage V AC	250/400	250/400
Rated load in AC1 VA	4,000	4,000
Rated load in AC15 (230 VAC) VA	750	750
Single phase motor rating (230 VAC) kW	0.55	0.55
Breaking capacity in DC1: 30/110/220V A	16/0.3/0.12	16/0.3/0.12
Minimum switching load mW(V/mA)	500 (10/5)	500 (10/5)
Standard contact material	AgCdO	AgCdO
C		

Supply specifications
Nominal voltage

	V DC	24	12240
Rated power AC/DC	VA (50Hz)/W	< 1.8/ < 0.6	< 1.8/ < 1.4
Operating range	AC	(0.851.1)U _N	10.2265 V
	DC	(0.85 1.1)U _N	10.2 265 V

Technical data

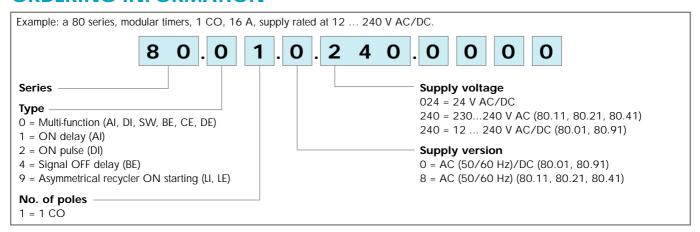
Specified time range		(0.12) s, (120) s, (0.12) min,	(120) min, (0.12) h, (120) h
Repeatability	%	± 1	± 1
Recovery time	ms	≤ 50	≤ 50
Minimum control impulse	ms	50	50
Setting accuracy-full range	%	± 5	± 5
Electrical life at rated load in AC1	cycles	100·10 ³	100·10 ³
Ambient temperature range	°C	-10+50	-10+50
Protection category		IP 20	IP 20

Approvals: (according to type)

V AC(50/60Hz)



ORDERING INFORMATION



ACCESSORIES



Sheet of marker tags (24 tags) for types 80.01/11/21/41: 9x17mm 020.24

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 FI	ELD (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
- differential mode		EN 61000-4-5	4 kV
		EN 61000-4-5	4 kV
		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		EN 61000-4-6	10 V
RADIATED AND CONDUCTED EMISSION		EN 55022	class B

INSULATION

	DIELECTRIC STRENGTH			
		- between input and output circuit	V AC	4,000
		- between open contacts	V AC	1,000
INSULATION (1.2/50 µs) between input and output		kV	6	

OTHER DATA

OTHER DATA				
CURRENT ABSORPTION on signal control (B	1)	< 1 mA		
POWER LOST TO THE ENVIRONMENT				
	- without contact current	1.3		
- with rated current W			3.2	
MAX WIRE SIZE			solid cable	stranded cable
	n	nm²	1x6 / 2x4	1x4 / 2x2.5
	AV	VG	1x10 / 2x12	1x12 / 2x14
SCREW TORQUE	1	٧m	0.8	



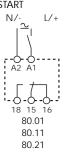
FUNCTIONS

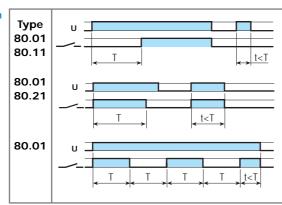
	LED	Supply voltage	NO output contact	Con Open	tacts Closed
U = Supply voltage		OFF	Open	15 - 18	15 - 16
S = Signal switch ——— = Output		ON	Open	15 - 18	15 - 16
contact	шшшш	ON	Open (Timing in Progress)	15 - 18	15 - 16
		ON	Closed	15 - 16	15 - 18

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

Wiring diagram

Without signal START





(AI) ON delay.

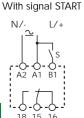
Apply power to timer. Output contacts transfer after preset time has elapsed. Reset occurs when power is removed.

(DI) ON pulse.

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

(SW) Symmetrical recycler: ON start.

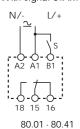
Apply power to timer. Output contacts transfer immediately and cycle between ON and OFF for as long as power is applied. The ratio is 1:1 (time on = time off).



80.01

80.41

80.01



80

(BE) Signal OFF delay.

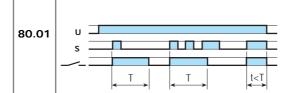
Power is permenently applied to the timer.

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.

(CE) Signal ON and OFF delay.

Power is permenently applied to the timer.

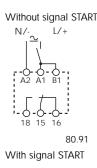
Closing the Signal Switch (S) initiates the preset delay, after which time the output contacts transfer. Opening the Signal switch initiates the same preset delay, after which time the output contacts reset.

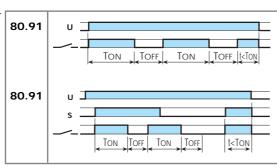


(DE) Signal ON pulse.

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.





(LI) Asymmetrical recycler (ON starting).

Apply power to timer. Output contacts transfer immediately and cycle between ON and OFF for as long as power is applied. The ON and OFF times are independently adjustable.

(LE) Signal asymmetrical recycler (ON starting)

Power is permenently applied to the timer.

Closing Signal Switch (S) causes the output contacts to transfer immediately and cycle between ON and OFF, until opened.

80.91



- 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
 - B1 A2 = 12 V DC