83.11



Features

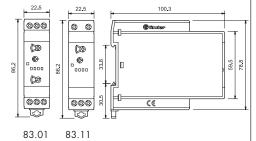
Multi-function and mono-function timer range

83.01 - Multi-function & multi-voltage 83.11 - ON delay, multi-voltage

- 22.5 mm wide
- Six time scales from 0.1s to 20h
- High input/output isolation
- 35 mm rail (EN 60715) mount
- "Blade + cross" both flat blade and cross head screw drivers can be used to adjust the range and function selectors, the timing trimmer, and to disengage the rail mounting clip
- Multi-voltage versions with "PWM clever" technology

83.01 / 83.11 Screw terminal





63.01



- Multi-voltage
- Multi-function

 Multi-voltage Mono-function

AI: ON delay

AI: ON delay DI: ON pulse

SW: Symmetrical recycling: ON start BE: Signal OFF delay CE: Signal ON and OFF delay

DE: Signal ON pulse







Wiring diagram

Wiring diagram

Wiring diagram

		(without signal START)	(with signal START)	(without signal START)	
Contact specification					
Contact configuration		1 CO (SPDT)		1 CO (SPDT)	
Rated current/Maximum pe	ak current A	16/30		16/30	
Rated voltage/Maximum swi	tching voltage V AC	250/400		250/400	
Rated load AC1	Rated load AC1 VA		00	4,000	
Rated load AC15 (230 V A	.C) VA	750		750	
Single phase motor rating (2	230 V AC) kW	0.55		0.55	
Breaking capacity DC1: 30	/110/220 V A	16/0.3,	/0.12	16/0.3/0.12	
Minimum switching load	mW (V/mA)	500 (1	0/5)	500 (10/5)	
Standard contact material		AgCo	dO	AgCdO	
Supply specification					
Nominal voltage (U _N)	V AC (50/60 Hz)	122	240	24240	
	V DC	122	240	24240	
Rated power AC/DC	VA (50 Hz)/W	< 1.8 /	⁷ < 1	< 1.8 / < 1	
Operating range	AC	(10.8:	265)V	(17265)V	
	DC	(10.8:	265)V	(17265)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	≤ 5	0	≤ 50	
Minimum control impulse ms		50	50 –		
Setting accuracy-full range %		± .	5	± 5	
Electrical life at rated load in AC1 cycles		100-	10³	100·10³	
Ambient temperature range °C		-10	+50	-10+50	
Protection category		IP 2	0	IP 20	
Approvals (according to type)		C€			





Features

Mono-function timer range

- 83.21 ON pulse, multi-voltage
- 83.41 Signal OFF delay, multi-voltage
- 83.91 Asymmetrical recycling, multi-voltage
- 22.5 mm wide
- Six time scales from 0.1s to 20h
- High input/output isolation
- 35 mm rail (EN 60715) mount
- "Blade + cross" both flat blade and cross head screw drivers can be used to adjust the range and function selectors, the timing trimmer, and to disengage the rail mounting clip
- Multi-voltage versions with "PWM clever" technology



- Multi-voltageMono-function
- © Translation

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83.41

- Multi-voltage
- Mono-function

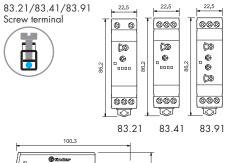


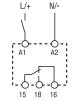
83.91



- Multi-voltage
- Mono-function

- DI: ON pulse
- BE: Signal OFF delay
- LI: Asymmetrical recycling (ON starting)
- **LE:** Signal asymmetrical recycling (ON starting)











100.3

The state of the state o

Wiring dia (without signa	

Wiring diagram (with signal START)

100·10³

-10...+50

IP 20

CE

Wiring diagram Wiring diagram (without signal (with signal START) START)

100·10³

-10...+50

IP 20

±∃		((' '	
Contact specification					
Contact configuration		1 CO (SPDT)	1 CO (SPDT)	1 CO (SPDT)	
Rated current/Maximum per	ak current A	16/30	16/30	16/30	
Rated voltage/Maximum swit	tching voltage V AC	250/400	250/400	250/400	
Rated load AC1	VA	4,000	4,000	4,000	
Rated load AC15 (230 V A	C) VA	750	750	750	
Single phase motor rating (230 V AC) kW		0.55	0.55	0.55	
Breaking capacity DC1: 30/110/220 V A		16/0.3/0.12	16/0.3/0.12	16/0.3/0.12	
Minimum switching load	mW (V/mA)	500 (10/5)	500 (10/5)	500 (10/5)	
Standard contact material		AgCdO	AgCdO	AgCdO	
Supply specification					
Nominal voltage (U _N)	V AC (50/60 Hz)	24240	24240	12240	
	V DC	24240	24240	12240	
Rated power AC/DC	VA (50 Hz)/W	< 1.8 / < 1	< 1.8 / < 1	< 1.8 / < 1	
Operating range	AC	(17265)V	(17265)V	(10.8265)V	
	DC	(17265)V	(17265)V	(10.8265)V	
Technical data					
Specified time range		(0.12)s, (120)s, (0.12)min, (120)min, (0.12)h, (120)h			
Repeatability	%	± 1	± 1	± 1	
Recovery time	ms	≤ 50	≤ 50	≤ 50	
Minimum control impulse	ms	_	50	50	
Setting accuracy-full range	%	± 5	± 5	± 5	

 $100 \cdot 10^{3}$

-10...+50

IP 20

cycles °C

Electrical life at rated load in AC1

Ambient temperature range

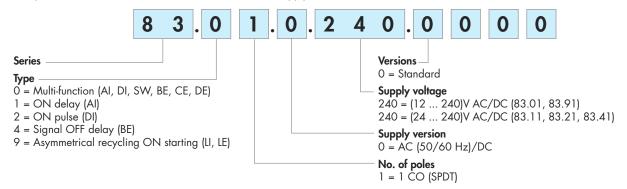
Approvals (according to type)

Protection category



Ordering information

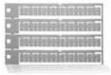
Example: 83 series, modular timers, 1 CO (SPDT) - 16 A, supply rated at (12...240)V AC/DC.



Technical data

Insulation						
Dielectric strength				83.01/11/21/41/91		
	between input	and output circuit	V AC	4,000		
between o		contacts	V AC	1,000		
Insulation (1.2/50 µs) between i	nput and outpu	t	kV	6		
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 ÷ 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				EN 61000-4-6	10 V	
Radiated and conducted emissio	n			EN 55022	class B	
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		
Screw torque			Nm	0.8		
Max. wire size				solid cable	stranded cable	
			${\sf mm}^2$	1x6 / 2x4	1x4 / 2x2.5	
			AWG	1x10 / 2x12	1x12 / 2x14	

Accessories



Sheet of marker tags, for types 83.01/11/21/41, plastic, 72 tags, 6x12 mm

060.72

060.72



Functions

U = Supply voltage

S = Signal switch

___ = Output contact

LED	Supply voltage NO output contact		Contacts		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Open	Closed	
	OFF	Open	15 - 18	15 - 16	
	ON	Open	15 - 18	15 - 16	
шшш	Open (Timing in Progress) 15 -		15 - 18	15 - 16	
	ON	Closed	15 - 16	15 - 18	

Wiring diagram

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

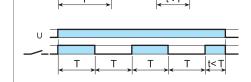
(Al) ON delay.

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

Without signal START L/+ N/A1 A2 A2 A2 A3 A2 A3 A2 A4 A2 A5 A6 A83.01

(DI) ON pulse.

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

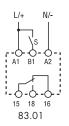


(SW) Symmetrical recycling: ON start.

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).

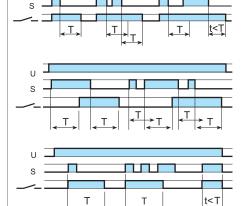


83.01



(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.

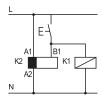
Power is permenently applied to the timer. Closing the Signal Switch (S) initiates the preset delay, after which time the output contacts transfer. Opening the Signal switch initiates the same preset delay, after which time the output contacts reset.

(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.

NOTE: The function must be set before energising the timer.



• Possible to control an external load, such as another relay coil or timer, connected to the signal start terminal B1.



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

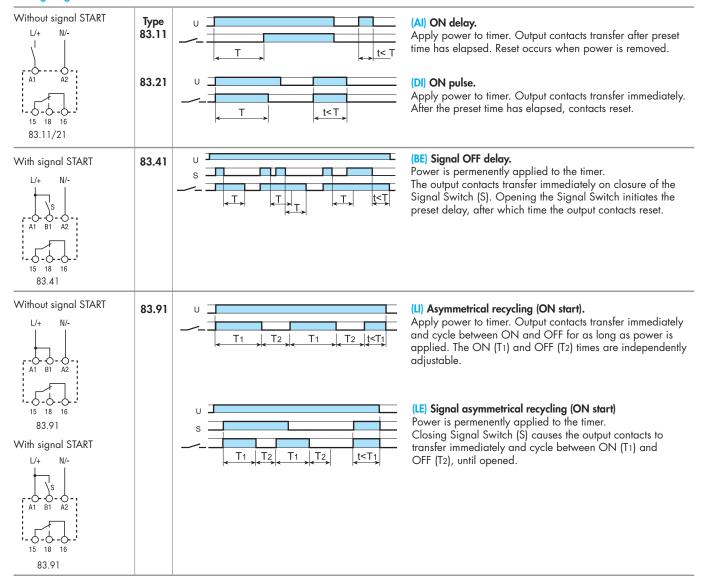


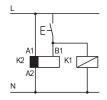
- ** A voltage other than the supply voltage can be applied to the command Start (B1), example: A1 A2 = 230 V AC
 - B1 A2 = 12 V DC



Functions

Wiring diagram





• Possible to control an external load, such as another relay coil or timer, connected to the signal start terminal B1.



* 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

$$B1 - A2 = 12 V DC$$