

% ± 1 Repeatability ± 1 200 200 Recovery time ms 50 50 Minimum control impulse ms % ± 5 Setting accuracy-full range ± 5 Electrical life at rated load in AC1 70.10³ 150.10³ cycles °C -20...+60 Ambient temperature range -20...+60 IP 20 IP 20 Protection category Approvals (according to type) CE PG

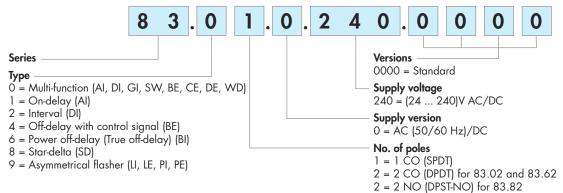
	W.		
(finder	10	83 Series - Moc	lular timers 16 A
Features	83.11	83.21	83.41
Mono-function timer range 83.11 - ON-delay, multi-voltage 83.21 - Interval, multi-voltage 83.41 - Off-delay with control signal, multi-voltage • 1 Pole • 22.5 mm wide • Eight time scales from 0.05s to 10 days • High input/output isolation			
 Wide supply range (24240)V AC/DC 35 mm rail (EN 60715) mount "Blade + cross" - both flat blade and cross 	Multi-voltage Mono-function	Multi-voltage Mono-function	Multi-voltageMono-function
 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 	Al: On-delay	DI: Interval	BE: Off-delay with control signal
	$ \begin{array}{c c} L^{/+} & N^{/-} \\ A_1 & A_2 \\ \hline \\ \hline$		L/* N/ A1 A2 B1
For outline drawing see page 5	Wiring diagram (without control signal)	Wiring diagram (without control signal)	Wiring diagram (with control signal)
Contact specification			
Contact configuration	1 CO (SPDT)	1 CO (SPDT)	1 CO (SPDT)
Rated current/Maximum peak current		16/30	16/30
Rated voltage/Maximum switching voltage V AG		250/400	250/400
Rated load AC1		4,000	4,000
Rated load AC15 (230 V AC)	·	750	750
Single phase motor rating (230 V AC) kW		0.5	0.5
Breaking capacity DC1: 30/110/220 V		16/0.3/0.12	16/0.3/0.12
Minimum switching load mW (V/mA		300 (5/5)	300 (5/5)
Standard contact material	AgNi	AgNi	AgNi
Supply specification			
Nominal voltage (U _N) V AC (50/60 Hz	24240	24240	24240
V DC	,	24240	24240
Rated power AC/DC VA (50 Hz)/V		< 1.5 / < 2	< 1.5 / < 2
Operating range VAC		16.8265	16.8265
V D0		16.8265	16.8265
Technical data			
Specified time range	(0.051)s, (0.510)s, (0.05	1)min, (0.510)min, (0.051)h. (() 0.510)h, (0.051)d, (0.510)d
Repeatability ?		± 1	± 1
Recovery time m		200	200
Minimum control impulse m		_	50
	6 ± 5	± 5	± 5
Setting accuracy-full range 9		1	1
<u>_</u>	s 70.10 ³	70.10 ³	70.10 ³
Electrical life at rated load in AC1 cycle			
Electrical life at rated load in AC1 cycle Ambient temperature range °C		70.10 ³ -20+60 IP 20	70.10 ³ -20+60 IP 20
Electrical life at rated load in AC1 cycle	-20+60	-20+60	-20+60

	W.		
(finder	10	83 Series - Modula	r timers 8 - 16 A
Features	83.62	83.82	83.91
 Mono-function and multi-function timer range 83.62 - Power off-delay, multi-voltage, 2 Pole 83.82 - Star-Delta, multi-voltage, star and delta output contacts 83.91 - Asymmetrical flasher, multi-voltage, 1 Pole 22.5 mm wide Time scales: Type 83.62 - 0.05s to 3 minutes Type 83.82 / 83.91 - 0.05 s to 10 days Wide supply range (24240)V AC / DC 35 mm rail (EN 60715) mount 	• Multi-voltage • Mono-function • 2 pole	• Multi-voltage • Mono-function • 2 pole • Transfer time can be	 Multi-voltage Multi-function
	BI: Power off-delay (True off-delay)	regulated (0.051)s *** SD: Star-delta	LI: Asymmetrical flasher (starting pulse on) LE: Asymmetrical flasher (starting pulse on) with control signal PI: Asymmetrical flasher
	$L^{/+}$ $N^{/-}$ A1 A2 25 28 26 	$ \begin{array}{c c} L/+ & N/- \\ A 1 & A 2 \\ & & 17 & 18 & 28 \\ & &$	(starting pulse off) PE: Asymmetrical flasher (starting pulse off) with control signal L/+1 N- Wiring diagram (without control signal) A1 A2 B1 (without control signal) A1 A2 B1 (without control signal) A1 A2 B1 (without control signal)
 * (0.052)s, (116)s, (870)s, (50180 ** (0.051)s, (0.510)s, (0.051)min, (0.510)min, (0.051)h, (0.510)h, (0.051)d, (0.510)d *** 0.05 s, 0.2 s, 0.3 s, 0.45 s, 0.6 s, 0.75 s, 0.85 s, 1 s For outline drawing see page 5 	s Wiring diagram (without control signal)	Wiring diagram (without control signal)	$\begin{array}{c c} & & & \\ L^{\prime+} & N^{\prime-} & & \\ A_{1} & A_{2} & B_{1} & \\ \hline & & & \\ O & O & O & O & \\ \hline & & & \\ O & - & O & O & \\ \hline & & & \\ O & & \\ O & & & \\ O$
Contact specification			
Contact configuration	2 CO (DPDT)	2 NO (DPST-NO)	1 CO (SPDT)
Rated current/Maximum peak current	8/15	16/30	16/30
Rated voltage/Maximum switching voltage V A		250/400	250/400
Rated load AC1		4,000	4,000
Rated load AC15 (230 V AC)		750	750
Single phase motor rating (230 V AC) kV	0.3	0.5	0.5
	8/0.3/0.12	16/0.3/0.12	16/0.3/0.12
Minimum switching load mW (V/mA		300 (5/5)	300 (5/5)
Standard contact material	AgNi	AgNi	AgNi
Supply specification			
Nominal voltage (U _N) V AC (50/60 Hz) 24240	24240	24240
V DO	24240	24240	24240
Rated power AC/DC VA (50 Hz)/V	/ < 1.5 / < 2	< 1.5 / < 2	< 1.5 / < 2
Operating range V AG	16.8265	16.8265	16.8265
V DO	16.8265	16.8265	16.8265
Technical data			
Specified time range	*		* *
Repeatability ?	6 ± 1	± 1	± 1
Recovery time m		200	200
Minimum control impulse m	, ,	-	50
0 1 0	6 ± 5	± 5	± 5
Electrical life at rated load in AC1 cycle		70·10 ³	70·10 ³
Ambient temperature range °C		-20+60	-20+60
Protection category	IP 20	IP 20	IP 20
Approvals (according to type)			



Ordering information

Example: 83 series, modular timers,	1 CO (SPDT) - 16 A, supply rated at (24240)V AC/DC.
-------------------------------------	---



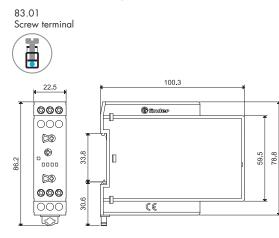
Technical data

Insulation					
Dielectric strength betwee	n input and output circuit	V AC	4,000		
betwee	between open contacts VAC		1,000		
Insulation (1.2/50 µs) between input and output 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 ÷ 1,000 MHz)		EN 61000-4-3	10 V/m	
	(1,000 ÷ 2,700 MHz)		EN 61000-4-3	3 V/m	
Fast transients (burst) (5-50 ns, 5 and 10	00 kHz) on Supply terminals		EN 61000-4-4	6 kV	
	on control signal termin	al (B1)	EN 61000-4-4	6 kV	
Surges (1.2/50 µs) on Supply terminals	common mode		EN 61000-4-5	6 kV	
	differential mode		EN 61000-4-5	4 kV	
on control signal terminal (B1)	common mode		EN 61000-4-5	6 kV	
	differential mode		EN 61000-4-5	4 kV	
Radio-frequency common mode	(0.15 ÷ 80 MHz)		EN 61000-4-6	10 V	
on Supply terminals	(80 ÷ 230 MHz)		EN 61000-4-6	10 V	
Radiated and conducted emission			EN 55022	class B	
Other data					
Current absorption on control signal (B1)		< 1 mA		
- max co	able length (capacity of ≤ 10 nF /	′100 m)	150 m		
- when	applying a control signal to B1,	which is	B1 is isolated from A1 a	nd A2 by an opto-coupler, and can	
differe	ent from the supply voltage at A1	/A2	therefore be operated at	a voltage other than the supply	
			voltage. If using a control	l signal of between (24 48)V DC and	
			117 0 1	240)V AC, ensure that the signal – is	
			connected to A2 and the	e + is applied to B1, and that L is	
			applied to B1 and N to A	A2.	
External potentiometer for 83.02			linear potentiometer. Maximum cable		
				g an external potentiometer, the timer	
		automatically use its setting in place of the internal setting.			
				ential at the potentiometer to be the	
			same as the timer supply	voltage.	
Power lost to the environment	without contact current	W	1.4		
	with rated current	W	3.2		
Generation Screw torque		Nm	0.8		
Max. wire size			solid cable	stranded cable	
		mm ²	1x6 / 2x4	1x4 / 2x2.5	
		AWG	1x10 / 2x12	1x12 / 2x14	

finder

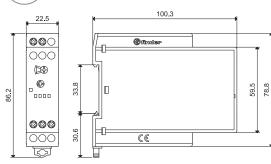
83 Series - Modular timers 16 A

Outline drawings

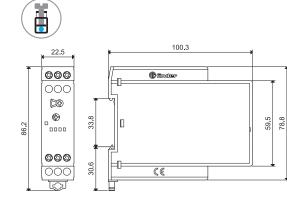




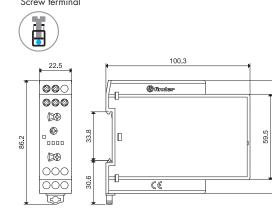




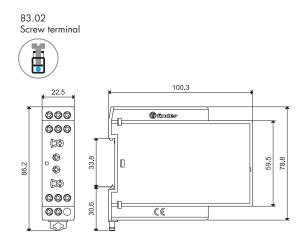






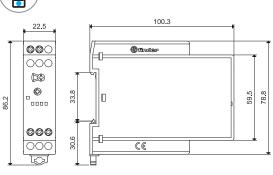


78.8



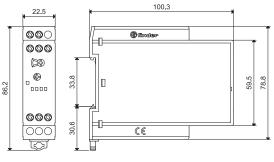






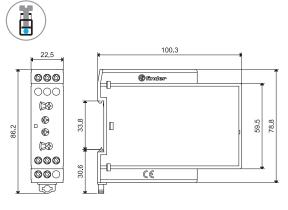






83.91

Screw terminal





83 Series - Modular timers 16 A

087.02.2

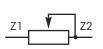
Accessories

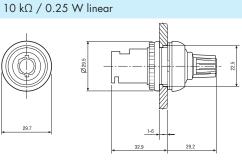
	tete					ii
Pili	Ends	falls	in.	-	6.01	G
	1000	1111	123 6-14		11	
	0000	0000	101	191	99	15
28	6999		(f)			1

Sheet of marker tags, for types 83.01/11/21/41/62/82, plastic, 72 tags, 6x12 mm 060.72

060.72





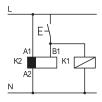


Potentiometer usable as external potentiometer for type 83.02

Functions

LED*	Supply	NO output	Contacts		
	voltage	contact	Open	Closed	
	OFF	Open	15 - 18 25 - 28	15 - 16 25 - 26	
	ON	Open	15 - 18 25 - 28	15 - 16 25 - 26	
	ON	Open (Timing in Progress)	15 - 18 25 - 28	15 - 16 25 - 26	
	ON	Closed	15 - 16 25 - 26	15 - 18 25 - 28	

* The LED on type 83.62 is illuminated when supply voltage is supplied to timer.

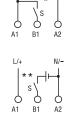


L/+

0 A1

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

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



N/-

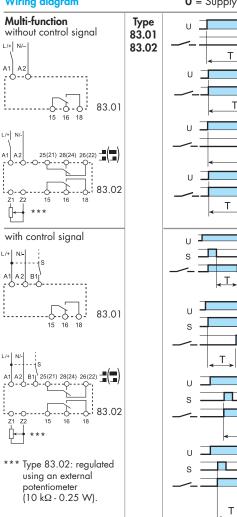
0 A2

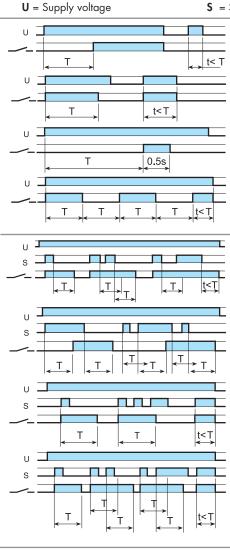
- ** A voltage other than the supply voltage can be applied to the control signal (B1), example: A1 - A2 = 230 V AC
 - B1 A2 = 12 V DC



Functions

Wiring diagram





S = Signal switch

— = Output contact

(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.

(GI) Pulse delayed.

Apply power to timer. Output contacts transfer after preset time has elapsed. Reset occurs after a fixed time of 0.5s.

(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)

(BE) Off-delay with control signal.

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

(CE) On- and off-delay with control signal.

Power is permenently applied to the timer. Closing the control signal (S) initiates the preset delay, after which time the output contacts transfer. Opening the control signal initiates the same 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 control signal (S), the output contacts transfer, and remain so for the duration of the preset delay, after which they reset.

(WD) Watchdog (Retriggerable interval with control signal on). Power is permanently applied to the timer.

On momentary or maintained closure of control signal (S), the output contacts transfer, and remain so for the duration of the preset delay, after which they reset; subsequent closures of control signal during the delay will extend the time. If the closure of the control signal (S) is longer than the preset time (T) then the output contacts reset.

NOTE: The timing function must be set when the timer is de-energised. Or for the 83.02, when the contact mode selector is in the OFF position.

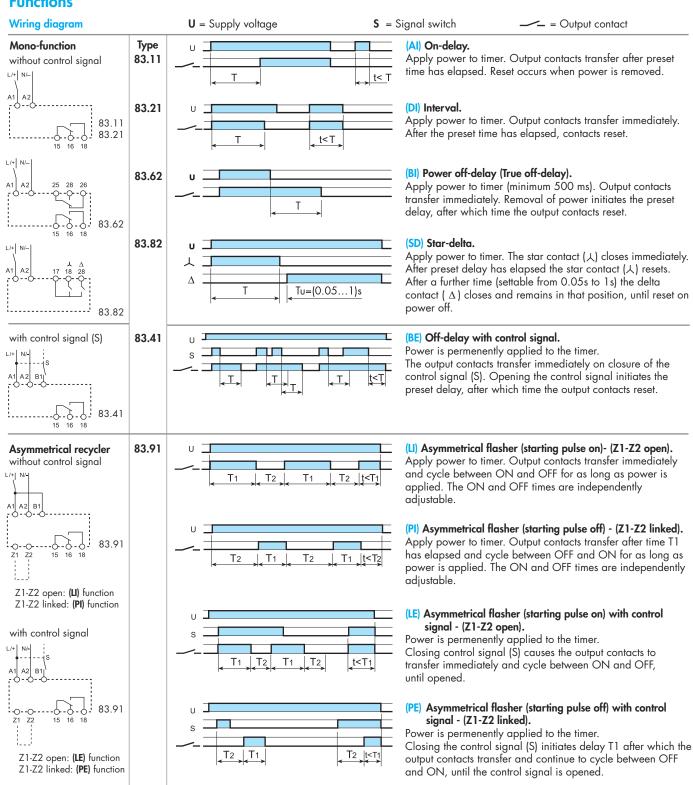
83.02 type

Contact mode selector	Functions without control signal (example: AI)	Functions with control signal (example: BE)
2 timed contacts		
	25-28 T	25-28 T
	15 - 18 T	15-18 T
	Both output contacts (15-18 and 25-28) follow the timing function	Both output contacts (15-18 and 25-28) follow the timing function
	U _	U
OFF		s
	Both output contacts [15-18 and 25(21)-28(24)] stay permanently open	Both output contacts [15-18 and 25(21)-28(24)] stay permanently open
1 timed + 1 instantaneous contact		
	21 - 24	21 - 24
	15-18 T	15 - 18 T
	The output contact 15-18 follows the timing function The output contact 21-24 follows the power supply (U)	The output contact 15-18 follows the timing function The output contact 21-24 follows the control signal



83 Series - Modular timers 16 A

Functions



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Timers category:

Click to view products by Finder manufacturer:

Other Similar products are found below :

 79237785
 H3DS-GL AC24-230/DC24-48
 H5AN-4DM DC12-24
 H5CN-XDNM AC100-240
 H5CN-YAN AC100-240
 H5CX-L8S-N AC100-240

 240
 H3AMNSCAC100240
 H3AM-NSR-B AC100-240
 H3CA-8 DC12
 H3CR-A8-302 DC24
 H3CR-F AC24-48/DC12-48
 H3CR-G8EL

 AC200-240
 H5AN-4D DC12-24
 81506944
 88225029
 H5S-YB4-X
 H3CR-A-301 AC100-240/DC100-125
 H3CR-AS AC24-48/DC12-48

 H3DK-GE AC240-440
 H3RN-2 AC24
 H3RN-21 AC24
 H3CR-H8RL AC/DC24 M
 H3CR-H8RL AC100-120 S
 H3CR-G8EL-31 AC100-120

 H3CR-H8RL AC100-120 M
 H3CR-HRL AC100-120 M
 H3CR-A8-301 AC24-48/DC12-48
 H3CR-H8RL AC/DC24 S
 H7AN-2D DC12-24

 H5CN-XANS DC12-48
 H3CA-8 DC110
 H7AN-W4DM DC12-24
 H7AN-4DM DC12-24
 H7AN-RT6M AC100-240

 H3CA-8H AC200/220/240
 MTR17-BA-U240-116
 PM4HSDM-S-AC240VS
 PM4HSDM-S-AC240VSW
 PO-405
 600DT-CU
 H3Y-2-B DC24

 30S
 PM4HF8-M-DC24V
 PM4HS-H-DC12VSW
 H3Y-2-B AC100-120 10S
 H3Y-2-B AC100-120 30S
 H3C-R
 H3CR-A8-301 24-48AC/12

 48DC
 H3CR-A8E 24-48AC/DC
 H3CR-F8 100-240AC/100-125DC
 H3CR-F8 100-240AC/100-125DC
 H3CR-F8 100-240AC/100-125DC