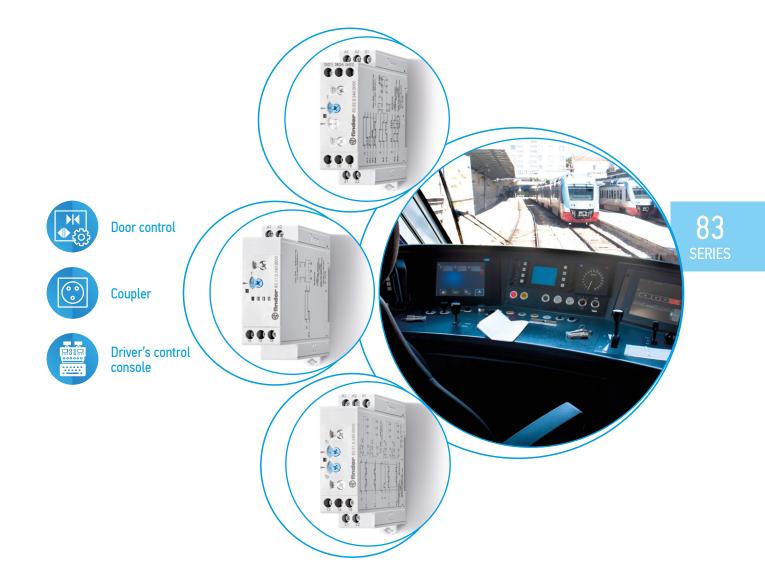


Modular timers 8 - 12 - 16 A





83 SERIES

Multi-function and Mono-funct	ion timer range	83.02T	83.62T
Type 83.02T	-	AL AZ BI	
- Multi-function & multi-voltage	e		
- 2 Pole (timed + instantaneous	•	A DECEMBER OF A	No. 1
external time setting potentic	ometer option	- 6 8 + 14141 171 178 - 18 19 19 19 19 19 19 19 19 19 19 19 19 19	
Туре 83.62Т			Contraction of the second seco
- Power off-delay, multi-voltage	e, 2 Pole		
• Complies with EN 45545-2:2020			
(protection against fire of mater			
EN 61373 (resistance against rar and shock, Category 1, Class B),	ndom vibrations	Multi-voltage	Multi-voltage
EN 50155 (resistance to tempera	ature and	 Multi-function Timing can be regulated using ext. 	Mono-function2 pole
humidity, OT4/ST1 class)		Potentiometer	- poie
• 22.5 mm wide		• 2 timed contacts or 1 timed + 1 instantaneous	
• 83.02: eight time scales from 0.		contact	
 83.62: four time scales from 0.0 High input/output isolation 	5 s to 3 minutes	AI: On-delay DI: Interval	BI: Power off-delay (True off-delay)
High input/output isolationWide supply range (24240)V		GI: Pulse delayed	
 "Blade + cross" - both flat blade 		SW: Symmetrical flasher (starting pulse on)	
screw drivers can be used to ac		BE: Off-delay with control signal CE: On- and off-delay with control signal	
and function selectors, the timi	ing trimmer, and	DE: Interval with control signal on	
to disengage the rail mounting		WD: Watchdog (Retriggerable interval with control	
Multi-voltage versions with "PV to the plane	VM clever"	signal on)	
technology35 mm rail (EN 60715) mount		L/+ N/-	L/+ N/-
		A1 A2 25(21) 28(24) 26(22)	A1 A2 25 28 26
83.02 / 83.62 Scrow torminal			· · · · · · · · · · · · · · · · · · ·
Screw terminal			
		zi zz 15 16 18 Wiring diagram	·
		(without control signal)	
		L/+ N/- •S	
* (0.051)s, (0.510)s, (0.057	1)min,	A1 A2 B1 25(21) 28(24) 26(22) ()	
(0.510)min, (0.051)h, (0.5.	10)h,		
(0.051)d, (0.510)d		0-0	
** Short term (10 min) +70°C		Z1 Z2 15 16 18 Wiring diagram	Wiring diagram
For outline drawing see page 6		입니 (with control signal)	(without control signal)
Contact specification			
Contact configuration	A	2 CO (DPDT)	2 CO (DPDT)
Rated current/Maximum peak cu	irrent A	12/30	8/15
Rated voltage/ Maximum switching voltage	V AC	250/400	250/400
Rated load AC1	VAC	3000	2000
Rated load AC15 (230 V AC)	VA	750	400
Single phase motor rating (230 V		0.5	0.3
Breaking capacity DC1: 24/110/2		12/0.3/0.12	8/0.3/0.12
Minimum switching load	mW (V/mA)	300 (5/5)	300 (5/5)
Standard contact material		AgNi	AgNi
Supply specification			
Nominal voltage (U _N)	V AC (50/60 Hz)	24240	24240
	V DC	24240	24240
Rated power AC/DC	VA (50 Hz)/W	< 2/< 2	< 1.5/< 2
Operating range	V AC	16.8265	16.8265
-	V DC	16.8265	16.8242
Technical data			
Specified time range		*	(0.052)s, (116)s, (870)s, (50180)s
Repeatability	%	±1	±1
Recovery time	ms	200	
Minimum control impulse	ms	50	500 ms (A1 - A2)
Setting accuracy-full range	//////////////////////////////////////	± 5	± 5
10			
Electrical life at rated load in AC1		60 · 10 ³	100 · 103
Ambient temperature range	°C	-25+55**	-25+55**
Approvals (according to type)		IP 20	IP 20
Approvals (according to type)		CE YA ERE	

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83 SERIES

(1) finder

Mono-function timer range		83.11T	83.41T	83.91T
Type 83.11T		03.111	03.411	05.911
- ON-delay, multi-voltage		6 G	GGG	600
Type 83.41T - Off-delay with control signal, multi-voltage Type 83.91T - Asymmetrical flasher, multi-v 1 Pole				
 Complies with EN 45545-2:2020 (protection against fire of mate EN 61373 (resistance against ra and shock, Category 1, Class B), EN 50155 (resistance to temper humidity, OT4/ST1 class) 22.5 mm wide Eight time scales from 0.05 s to High input/output isolation Wide supply range (24240)V "Blade + cross" - both flat blade screw drivers can be used to ac and function selectors, the tim to disengage the rail mounting Multi-voltage versions with "Pu technology 	rials), ndom vibrations , rature and o 10 days / AC/DC e and cross head djust the range ning trimmer, and g clip	• Multi-voltage • Mono-function • 1 Pole Al: On-delay $L^{I+} N^{-} $ $A_{1} A_{2} $ 15 16 18	 Multi-voltage Mono-function 1 Pole BE: Off-delay with control signal L¹⁴ N¹ - S A1 A2 B1 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	 Multi-voltage Multi-function LI: Asymmetrical flasher (starting pulse on) LE: Asymmetrical flasher (starting pulse on) with control signal PI: Asymmetrical flasher (starting pulse off) PE: Asymmetrical flasher (starting pulse off) with control signal L¹⁺¹ N··· Wiring diagram (without control signal) A1 A2 Bi O····· ZI ZZ 15 16 18
 35 mm rail (EN 60715) mount 83.11 / 83.41 / 83.91 Screw terminal Screw terminal * Short term (10 min) +70°C 				$\begin{array}{c} \begin{matrix} L_{1}^{H} & N_{1}^{H} \\ A_{1} & A_{2} & B_{1}^{H} \\ \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet &$
		Wiring diagram	Wiring diagram	
For outline drawing see page 6		Wiring diagram (without control signal)	Wiring diagram (with control signal)	
Contact specification		(without control signal)	(with control signal)	
Contact specification Contact configuration		(without control signal) 1 CO (SPDT)	(with control signal) 1 CO (SPDT)	1 CO (SPDT)
Contact specification Contact configuration Rated current/Maximum peak co Rated voltage/		(without control signal) 1 CO (SPDT) 16/30	(with control signal) 1 CO (SPDT) 16/30	16/30
Contact specification Contact configuration Rated current/Maximum peak cu Rated voltage/ Maximum switching voltage	V AC	(without control signal) 1 CO (SPDT) 16/30 250/400	(with control signal) 1 CO (SPDT) 16/30 250/400	16/30 250/400
Contact specification Contact configuration Rated current/Maximum peak cu Rated voltage/ Maximum switching voltage Rated load AC1	V AC VA	(without control signal) 1 CO (SPDT) 16/30 250/400 4000	(with control signal) 1 CO (SPDT) 16/30 250/400 4000	16/30 250/400 4000
Contact specification Contact configuration Rated current/Maximum peak cu Rated voltage/ Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC)	V AC VA VA	(without control signal) 1 CO (SPDT) 16/30 250/400 4000 750	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750	16/30 250/400 4000 750
Contact specification Contact configuration Rated current/Maximum peak cu Rated voltage/ Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC) Single phase motor rating (230 V	V AC VA VA VA	(without control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5	16/30 250/400 4000 750 0.5
Contact specification Contact configuration Rated current/Maximum peak cu Rated voltage/ Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC)	V AC VA VA VA	(without control signal) 1 CO (SPDT) 16/30 250/400 4000 750	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750	16/30 250/400 4000 750
Contact specification Contact configuration Rated current/Maximum peak cu Rated voltage/ Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC) Single phase motor rating (230 V Breaking capacity DC1: 24/110/2	V AC VA VA V AC) kW 220 V A	(without control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5)	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5)	16/30 250/400 4000 750 0.5 16/0.3/0.12
Contact specification Contact configuration Rated current/Maximum peak cu Rated voltage/ Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC) Single phase motor rating (230 V Breaking capacity DC1: 24/110/2 Minimum switching load	V AC VA VA V AC) kW 220 V A	(without control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12	16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5)
Contact specification Contact configuration Rated current/Maximum peak cur Rated voltage/ Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC) Single phase motor rating (230 V Breaking capacity DC1: 24/110/2 Minimum switching load Standard contact material	V AC VA VA V AC) kW 220 V A	(without control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5)	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5)	16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5)
Contact specification Contact configuration Rated current/Maximum peak cu Rated voltage/ Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC) Single phase motor rating (230 V Breaking capacity DC1: 24/110/2 Minimum switching load Standard contact material Supply specification	V AC VA VA V AC) kW 220 V A mW (V/mA)	(without control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi	16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi
Contact specification Contact configuration Rated current/Maximum peak cu Rated voltage/ Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC) Single phase motor rating (230 V Breaking capacity DC1: 24/110/2 Minimum switching load Standard contact material Supply specification	V AC VA VAC) kW 220 V A mW (V/mA) V AC (50/60 Hz)	(without control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240	16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240
Contact specification Contact configuration Rated current/Maximum peak current/Maximum peak current/Maximum peak current/Maximum switching voltage Rated voltage/ Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC) Single phase motor rating (230 V Breaking capacity DC1: 24/110/2 Minimum switching load Standard contact material Supply specification Nominal voltage (U _N)	V AC VA VA V AC) kW 220 V A mW (V/mA) V AC (50/60 Hz) V DC	(without control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240	16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240
Contact specification Contact configuration Rated current/Maximum peak current/Maximum peak current/Maximum peak current/Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC) Single phase motor rating (230 V Breaking capacity DC1: 24/110/2 Minimum switching load Standard contact material Supply specification Nominal voltage (U _N) Rated power AC/DC	V AC VA VA V AC) kW 220 V A mW (V/mA) V AC (50/60 Hz) V AC (50 Hz)/W	(without control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 < 1.5/< 2	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 < 1.5/< 2	16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 < 1.5/< 2
Contact specification Contact configuration Rated current/Maximum peak current/Maximum peak current/Maximum peak current/Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC) Single phase motor rating (230 V Breaking capacity DC1: 24/110/2 Minimum switching load Standard contact material Supply specification Nominal voltage (U _N) Rated power AC/DC	V AC VA VA V AC) kW 220 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W V AC	(without control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 < 1.5/< 2 16.8265	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 < 1.5/< 2 16.8265	16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 < 1.5/< 2 16.8265
Contact specification Contact configuration Rated current/Maximum peak current/Maximum peak current/Maximum peak current/Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC) Single phase motor rating (230 V Breaking capacity DC1: 24/110/2 Minimum switching load Standard contact material Supply specification Nominal voltage (U _N) Rated power AC/DC Operating range	V AC VA VA V AC) kW 220 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W V AC	(without control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 < 1.5/< 2 16.8265 16.8265	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 < 1.5/< 2 16.8265	16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 <1.5/< 2 16.8265 16.8265
Contact specification Contact configuration Rated current/Maximum peak cu Rated voltage/ Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC) Single phase motor rating (230 V Breaking capacity DC1: 24/110/2 Minimum switching load Standard contact material Supply specification Nominal voltage (U _N) Rated power AC/DC Operating range Technical data	V AC VA VA V AC) kW 220 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W V AC	(without control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 < 1.5/< 2 16.8265 16.8265	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 < 1.5/< 2 16.8265 16.8265	16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 <1.5/< 2 16.8265 16.8265
Contact specification Contact configuration Rated current/Maximum peak cu Rated voltage/ Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC) Single phase motor rating (230 V Breaking capacity DC1: 24/110/2 Minimum switching load Standard contact material Supply specification Nominal voltage (U _N) Rated power AC/DC Operating range Technical data Specified time range	V AC VA VAC) kW 220 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W V AC V AC	(without control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 24240 16/8265 16.8265 16.8265	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 24240 1.5/< 2 16.8265 16.8265 16.8265	16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 24240 24240 510)h, (0.051)d, (0.510)d
Contact specification Contact configuration Rated current/Maximum peak current/Maximum peak current/Maximum peak current/Maximum peak current/Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC) Single phase motor rating (230 V Breaking capacity DC1: 24/110/2 Minimum switching load Standard contact material Supply specification Nominal voltage (U _N) Rated power AC/DC Operating range Technical data Specified time range Repeatability	V AC VA VAC) kW 220 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W V AC V AC	(without control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 24240 (0.051)s, (0.510)s, (0.051) 16.8265	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 < 1.5/< 2 16.8265 16.8265 16.8265)min, (0.510)min, (0.051)h, (0.	16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 <1.5/< 2 16.8265 16.8265 16.8265 510)h, (0.051)d, (0.510)d ± 1
Contact specification Contact configuration Rated current/Maximum peak current/Maximum peak current/Maximum switching voltage Rated voltage/ Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC) Single phase motor rating (230 V Breaking capacity DC1: 24/110/2 Minimum switching load Standard contact material Supply specification Nominal voltage (U _N) Rated power AC/DC Operating range Technical data Specified time range Repeatability Recovery time	V AC VA VAC) KW 220 V A mW (V/mA) V AC (50/60 Hz) V AC (50/60 Hz) V DC VA (50 Hz)/W V AC V AC V DC	(without control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 <1.5/< 2 16.8265 16.8265 16.8265 (0.051)s, (0.510)s, (0.0511) ± 1 200	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 < 1.5/< 2 16.8265 16.8265)min, (0.510)min, (0.051)h, (0. ± 1 200	$ \begin{array}{c} 16/30\\ 250/400\\ 4000\\ 750\\ 0.5\\ 16/0.3/0.12\\ 300 (5/5)\\ AgNi\\ 24240\\ 24240\\ 24240\\ <1.5/< 2\\ 16.8265\\ 16.8265\\ 16.8265\\ 510)h, (0.051)d, (0.510)d\\ \pm 1\\ 200\\ \end{array} $
Contact specification Contact configuration Rated current/Maximum peak current/Maximum peak current/Maximum switching voltage Rated voltage/ Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC) Single phase motor rating (230 V Breaking capacity DC1: 24/110/2 Minimum switching load Standard contact material Supply specification Nominal voltage (U _N) Rated power AC/DC Operating range Technical data Specified time range Repeatability Recovery time Minimum control impulse	V AC VA VA VAC) kW 220 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W V AC V AC V DC	(without control signal) 1 CO (SPDT) 16/30 250/400 4000 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 24240 (0.051)s, (0.510)s, (0.0511 ± 1 200 	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 <1.5/< 2 16.8265 16.8265 16.8265 16.8265 16.8265 16.8265 16.8265	$ \begin{array}{c} 16/30\\ 250/400\\ 4000\\ 750\\ 0.5\\ 16/0.3/0.12\\ 300 (5/5)\\ AgNi\\ 24240\\ 24240\\ 24240\\ 24240\\ 510)h, (0.051)d, (0.510)d\\ \pm 1\\ 200\\ 50\\ \end{array} $
Contact specification Contact configuration Rated current/Maximum peak current/Maximum peak current/Maximum switching voltage Rated voltage/ Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC) Single phase motor rating (230 V Breaking capacity DC1: 24/110/2 Minimum switching load Standard contact material Supply specification Nominal voltage (U _N) Rated power AC/DC Operating range Technical data Specified time range Repeatability Recovery time Minimum control impulse Setting accuracy-full range	V AC VA VA VAC) kW 220 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W V AC V AC V DC	(without control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 24240 (0.051)s, (0.510)s, (0.051) ± 1 200 	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 24240 24240 1.5/< 2 16.8265 16.8.	$ \begin{array}{c} 16/30\\ 250/400\\ 4000\\ 750\\ 0.5\\ 16/0.3/0.12\\ 300 (5/5)\\ AgNi\\ 24240\\ 24240\\ 24240\\ 24240\\ 24240\\ 510)h, (0.051)d, (0.510)d\\ \pm 1\\ 200\\ 50\\ \pm 5\\ \end{array} $
Contact specification Contact configuration Rated current/Maximum peak current/Maximum peak current/Maximum peak current/Maximum peak current/Maximum switching voltage Rated load AC1 Rated load AC1 Rated load AC15 (230 V AC) Single phase motor rating (230 V) Breaking capacity DC1: 24/110/2 Minimum switching load Standard contact material Supply specification Nominal voltage (UN) Rated power AC/DC Operating range Technical data Specified time range Repeatability Recovery time Minimum control impulse Setting accuracy-full range Electrical life at rated load in ACC	V AC VA VAC) kW 220 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W V AC V AC V AC S0 Hz)/W V AC N C V AC V AC 1 cycles	(without control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 24240 (0.051)s, (0.510)s, (0.051) 16.8265 16.8	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 24240 24240 24240 24240 24240 24240 24265 16.8265 16.8265 16.8265 16.8265 16.8265 16.8265 16.8265 16.8265 16.8265 16.8265 16.8205	$ \begin{array}{c} 16/30\\ 250/400\\ 4000\\ 750\\ 0.5\\ 16/0.3/0.12\\ 300 (5/5)\\ AgNi\\ 24240\\ 24240\\ 24240\\ 24240\\ 24240\\ 510)h, (0.051)d, (0.510)d\\ \pm 1\\ 200\\ 510)h, (0.051)d, (0.510)d\\ \pm 5\\ 510]h, (0.051)d, (0.510)d\\ 100\\ 50\\ 50\\ 50\\ 50.10^3\\ \end{array} $

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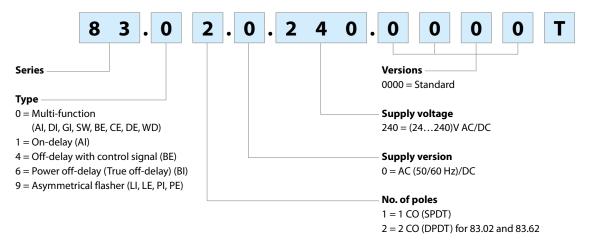


83

CEDIEC

Ordering information

Example: 83 series, modular timers, 2 CO (DPDT) - 12 A, supply rated at (24...240)V AC/DC.

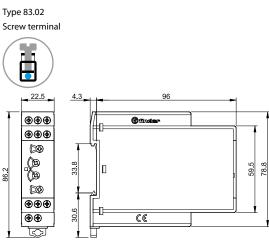


Technical data

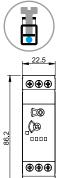
Insulation							
Dielectric strength between input		n input and output circuit	V AC	4000			
	between open contacts VAC		1000				
Insulation (1.2/50 µs) between input a	nd outpu	ıt	kV	6			
EMC specifications							
Type of test				Reference standard	83.02/11/41	/91	83.62
Electrostatic discharge		contact discharge		EN 61000-4-2	4 kV		4 kV
		air discharge		EN 61000-4-2	8 kV		8 kV
Radio-frequency electromagnetic field	ł	(80 ÷ 1000 MHz)		EN 61000-4-3	10 V/m		10 V/m
		(1000 ÷ 2700 MHz)		EN 61000-4-3	3 V/m		3 V/m
Fast transients (burst) (5-50 ns, 5 and 1	00 kHz)	on Supply terminals		EN 61000-4-4	7 kV		6 kV
		on control signal termina	al (B1)	EN 61000-4-4	7 kV		6 kV
Surges (1.2/50 μs) on Supply terminals	;	common mode		EN 61000-4-5	6 kV		6 kV
		differential mode		EN 61000-4-5	6 kV		4 kV
on control signal terminal (B1)		common mode		EN 61000-4-5	6 kV		6 kV
		differential mode		EN 61000-4-5	4 kV		4 kV
Radio-frequency common mode		(0.15 ÷ 80 MHz)		EN 61000-4-6	10 V		10 V
on Supply terminals		(80 ÷ 230 MHz)		EN 61000-4-6	10 V		10 V
Radiated and conducted emission				EN 55022	class A		class A
Other data							
Current absorption on control signal (31)			< 1 mA			
- max e	cable len	gth (capacity of \leq 10 nF/10	0 m)	150 m			
		g a control signal to B1, w om the supply voltage at A		B1 is isolated from A1 operated at a voltage	other than the	e supply voltage.	
				If using a control sign of (24240)V AC, ens is applied to B1, and t	ure that the si	gnal - is connected	I to A2 and the +
External potentiometer for 83.02			Use a 10 k Ω / \ge 0.25 W linear potentiometer. Maximum cable length 10 m. When using an external potentiometer, the timer automatically use its setting in place of the internal setting. Consider the voltage potential 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	
			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 x 14	

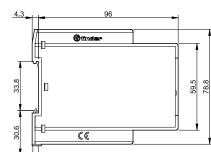


Outline drawings



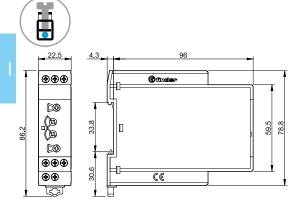
Type 83.41 Screw terminal

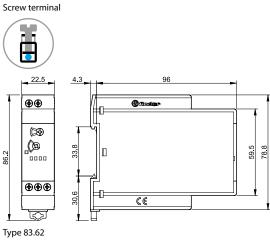




Type 83.91 Screw terminal

G

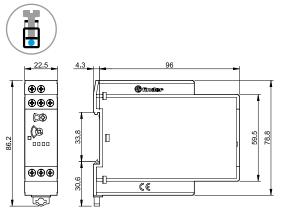




Screw terminal

86.2

Type 83.11





087.02.2

83

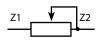
Accessories

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Sheet of marker tags, plastic, 48 tags, 6 x 12 mm, for CEMBRE's thermal transfer printers 060.48

060.48



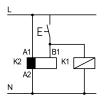


Potentiometer usable as external potentiometer for type 83.02, 10 k Ω / 0.25 W linear, IP 66

Functions

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

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



• 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).

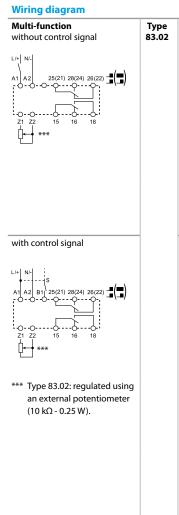


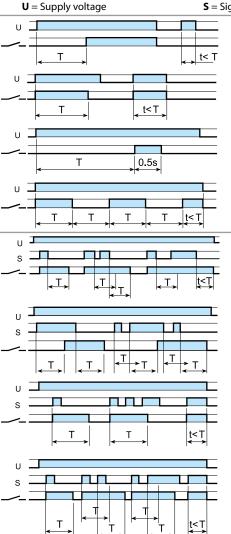
** A voltage other than the supply voltage can be applied to the control signal (B1), example:
 A1 - A2 = 230 V AC
 B1 - A2 = 12 V DC





Functions





= 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.

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
OFF	U _	
	Both output contacts [15-18 and 25(21)-28(24)] stay permanently open	8 Both output contacts [15-18 and 25(21)-28(24)] stay permanently open
1 timed + 1 instantaneous contact		u
	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 funct The output contact 21-24 follows the control signa

8

83 SERIES Modular timers 8 - 12 - 16 A



83

9

Functions

