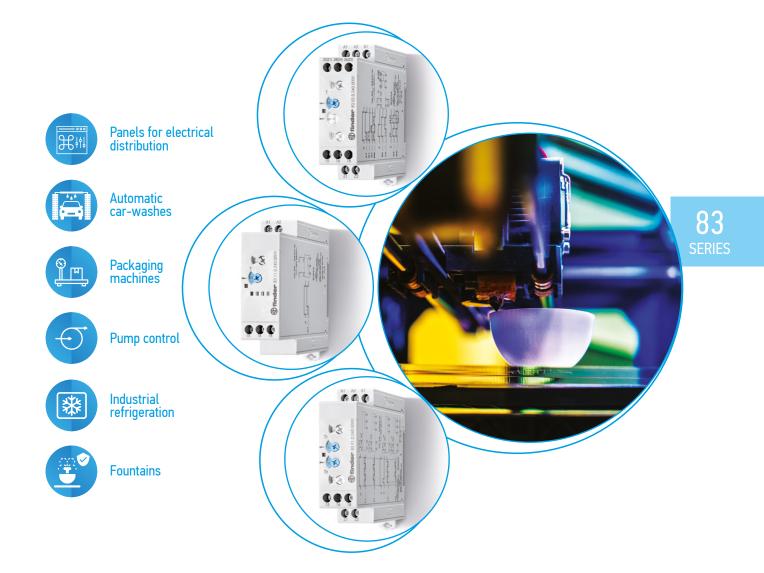


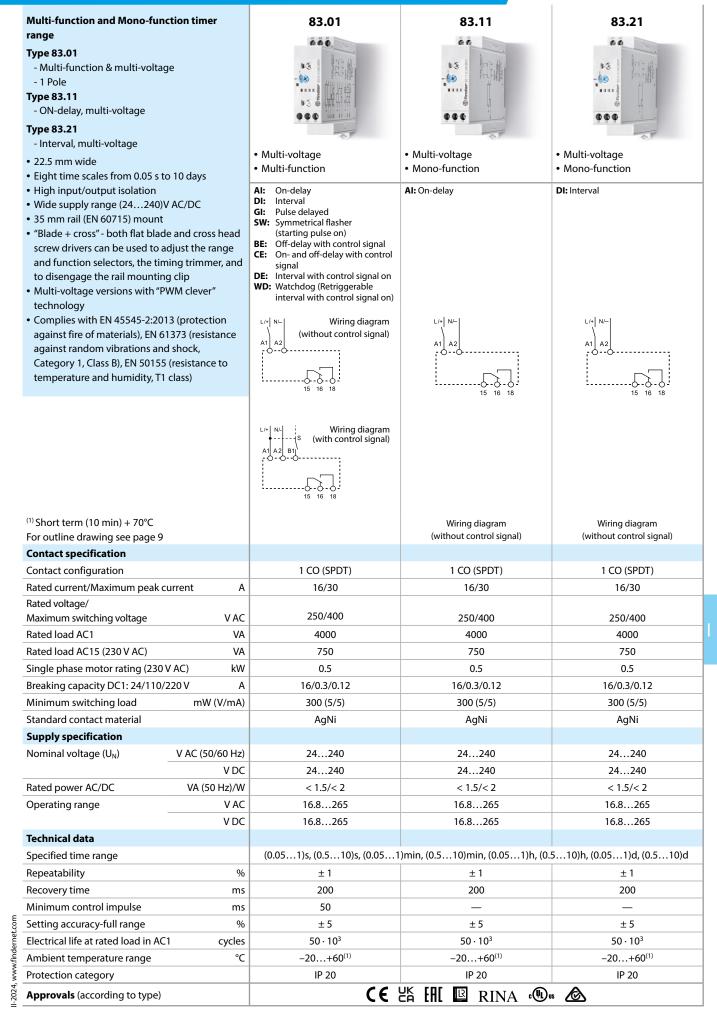
Modular timers 8 - 10 - 12 - 16 A



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83 SERIES Modular timers 16 A





83 SERIES

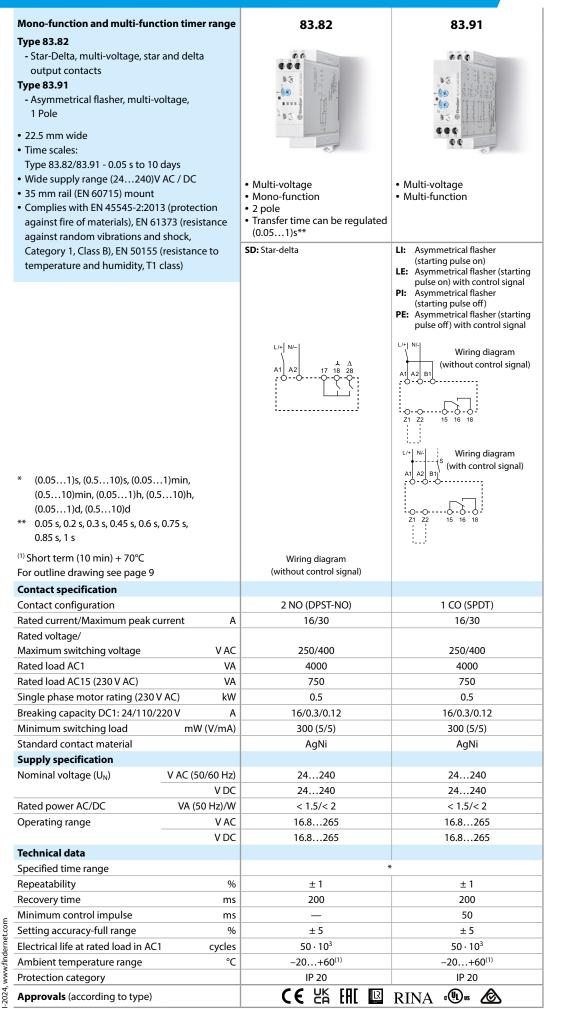


	ion timer range	83.41	83.52	83.62
Type 83.41			GGG	
- Off-delay with control signal,		13		
multi-voltage [ype 83.52				
- Multi-function & multi-voltage		The second secon		· · · · · · · · · · · · · · · · · · ·
- 2 Pole (timed + instantaneous		÷		
external time setting potention	•			
pause function option	incler option,	5.15	66 S.F	55
Гуре 83.62		• Multi-voltage	Multi-voltage	Multi-voltage
 Power off-delay, multi-voltage, 	, 2 Pole	Mono-function	Multi-function	Mono-function
	,		• Timing can be regulated using	• 2 pole
1 Pole			ext. Potentiometer2 timed contacts or 1 timed +	
22.5 mm wide			1 instantaneous contact	
Time scales:			• 3 functions with pause option	
Type 83.62 - 0.05 s to 3 minutes		BE: Off-delay with control signal	AE: On-delay with control signal	BI: Power off-delay (True off-dela
Eight time scales from 0.05 s to	TO days		GE: Pulse delayed with control signal on	
 High input/output isolation Wide supply range (24 - 240)V/ 			IT: Timing step	
 Wide supply range (24240)V A 35 mm rail (EN 60715) mount 			FE: Interval with control signal on and off	
 "Blade + cross" - both flat blade 	and cross boad		EEa: Interval with control signal	
screw drivers can be used to adj			off (retriggerable) DEp: Interval with control signal	
and function selectors, the timir			on and pause signal BEp: Off-delay with control signal	
to disengage the rail mounting	-		and pause signal	
Multi-voltage versions with "PW			SHp: "Shower" function	
technology		L/+ N/-	L/+ N/-	L/+ N/-
Complies with EN 45545-2:2013	(protection	•	A1 A2 B1 25(21) 28(24) 26(22) - (A1 A2 25 28 26
against fire of materials), EN 613	•	-0-00		· · · · · · · · · · · · · · · · · · ·
against random vibrations and s			Wining	
Category 1, Class B), EN 50155 (r			Lo-o- Wiring x1 x2 15 16 18 diagram	
temperature and humidity, T1 cl		15 16 18	(with control signal and external potentiometer connection)	15 16 18
			A1 A2 B1 25(21) 28(24) 26(22)	
			· O · O · O · O · O · O · O · O · O · O	
			Wiring	
			x1 x2 15 16 18 diagram	
		Wiring diagram	x1 x2 15 16 18 diagram	Wiring diagram
For outline drawing see page 9		Wiring diagram (with control signal)	x1 x2 15 16 18 diagram	Wiring diagram (without control signal)
¹⁾ Short term (10 min) + 70°C For outline drawing see page 9 Contact specification		(with control signal)	X1 X2 15 16 18 diagram (with control signal and pause signal)	(without control signal)
For outline drawing see page 9 Contact specification Contact configuration		(with control signal) 1 CO (SPDT)	X1 X2 P C(with control signal and pause signal) 2 CO (DPDT)	(without control signal) 2 CO (DPDT)
For outline drawing see page 9 Contact specification Contact configuration Rated current/Maximum peak cur	rrent A	(with control signal)	X1 X2 15 16 18 diagram (with control signal and pause signal)	(without control signal)
For outline drawing see page 9 Contact specification Contact configuration Rated current/Maximum peak cur Rated voltage/		(with control signal) 1 CO (SPDT) 16/30	x1 x2 x1 x2 x1 x2 x1 x2 x1 x2 x1 x2 x1 x2 x1 x2 (with control signal and pause signal) 2 CO (DPDT) 12/30	(without control signal) 2 CO (DPDT) 8/15
For outline drawing see page 9 Contact specification Contact configuration Rated current/Maximum peak cur Rated voltage/ Maximum switching voltage	VAC	(with control signal) 1 CO (SPDT) 16/30 250/400	X1 X2 P C(with control signal and pause signal) 2 CO (DPDT) 12/30 250/400	(without control signal) 2 CO (DPDT) 8/15 250/400
For outline drawing see page 9 Contact specification Contact configuration Rated current/Maximum peak cur Rated voltage/ Maximum switching voltage Rated load AC1	V AC VA	(with control signal) 1 CO (SPDT) 16/30 250/400 4000	2 CO (DPDT) 2 CO (DPDT) 2 50/400 3000	(without control signal) 2 CO (DPDT) 8/15 250/400 2000
For outline drawing see page 9 Contact specification Contact configuration Rated current/Maximum peak cur Rated voltage/ Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC)	V AC VA VA	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750	x1 x2 x1 x2	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400
For outline drawing see page 9 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 A)	V AC VA VA AC) kW	(with control signal) 1 CO (SPDT) 16/30 250/400 4000	2 CO (DPDT) 2 CO (DPDT) 2 50/400 3000	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3
For outline drawing see page 9 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: 24/110/22	V AC VA VA AC) kW 20 V A	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750	x1 x2 x1 x2	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400
For outline drawing see page 9 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 A)	V AC VA VA AC) kW	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5	X1 X2 15 16 18 diagram (with control signal and pause signal) (with control signal and pause signal) 2 CO (DPDT) 12/30 250/400 3000 750 0.5 0.5	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3
For outline drawing see page 9 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 A Breaking capacity DC1: 24/110/22 Minimum switching load	V AC VA VA AC) kW 20 V A	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12	x1 x2 x1	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3 8/0.3/0.12
For outline drawing see page 9 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 A Breaking capacity DC1: 24/110/22 Minimum switching load Standard contact material	V AC VA VA AC) kW 20 V A	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5)	X1 X2 15 16 16 diagram (with control signal and pause signal) 2 CO (DPDT) 12/30 250/400 3000 750 0.5 12/0.3/0.12 300 (5/5)	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3 8/0.3/0.12 300 (5/5)
For outline drawing see page 9 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	V AC VA VA AC) kW 20 V A	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5)	X1 X2 15 16 16 diagram (with control signal and pause signal) 2 CO (DPDT) 12/30 250/400 3000 750 0.5 12/0.3/0.12 300 (5/5)	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3 8/0.3/0.12 300 (5/5)
For outline drawing see page 9 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: 24/110/22 Minimum switching load Standard contact material Supply specification	V AC VA AC) KW 20 V A mW (V/mA)	(with control signal) 1 CO (SPDT) 16/30 250/400 4000 750 0.5 16/0.3/0.12 300 (5/5) AgNi	X1 X2 15 16 <td< td=""><td>(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3 8/0.3/0.12 300 (5/5) AgNi</td></td<>	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3 8/0.3/0.12 300 (5/5) AgNi
For outline drawing see page 9 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 AC) Single phase motor rating (230 V AC) Breaking capacity DC1: 24/110/22 Minimum switching load Standard contact material Supply specification Nominal voltage (U _N)	V AC VA AC) kW 20 V A mW (V/mA) V AC (50/60 Hz) V DC	(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	X1 X2 15 16	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 24240 24220
For outline drawing see page 9 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	V AC VA AC) kW 20 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W	(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	X1 X2 15 16	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 24240 24240 24220 < 1.5/< 2
For outline drawing see page 9 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	V AC VA AC) kW 20 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W V AC	(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	X1 X2 15 16 18 diagram (with control signal and pause signal) 2 CO (DPDT) 12/30 250/400 3000 750 0.5 12/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 24240 2/2 2 16.8265 16.8265	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 24240 24220 < 1.5/< 2 16.8265
or outline drawing see page 9 Contact specification Contact configuration Lated current/Maximum peak cur Lated voltage/ Maximum switching voltage Lated load AC1 Lated load AC15 (230 V AC) ingle phase motor rating (230 V AC) ingle phase motor rating (230 V AC) Lated load AC15 (230 V AC) Lated power AC/DC Deperating range	V AC VA AC) kW 20 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W	(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	X1 X2 15 16	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 24240 24240 24220 < 1.5/< 2
For outline drawing see page 9 Contact specification Contact configuration Contact configuration Contact configuration Contact configuration Contact configuration Contact configuration Contact specification Contact material Contact mate	V AC VA AC) kW 20 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W V AC	(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 24265 16.8265	X1 X2 15 16 18 diagram (with control signal and pause signal) 2 CO (DPDT) 12/30 250/400 3000 750 0.5 12/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 24240 2/2 2 16.8265 16.8265	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 24240 24240 24220 < 1.5/< 2 16.8265 16.8242
For outline drawing see page 9 Contact specification Contact configuration Contact configuration Contact configuration Contact configuration Contact configuration Contact configuration Contact specification Contact material Contact mate	V AC VA AC) kW 20 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W V AC	(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 (0.051)s, (0.510)s, (0.05 ²	X1 V2 15 16 18 diagram (with control signal and pause signal) 2 CO (DPDT) 12/30 250/400 3000 3000 750 0.5 12/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 2/< 2	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 24240 24240 24220 < 1.5/< 2 16.8265 16.8242
For outline drawing see page 9 Contact specification Contact configuration Rated current/Maximum peak cur Rated voltage/ Maximum switching voltage Rated load AC1 Rated load AC15 (230 V AC) Fingle phase motor rating	V AC VA AC) kW 20 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W V AC	(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 (0.051)s, (0.510)s, (0.05 ²	X1 V2 15 16 18 diagram (with control signal and pause signal) 2 CO (DPDT) 12/30 250/400 3000 750 0.5 12/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 24265 16.8265 10min, (0.510)min, (0.051)h,	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 24240 24240 24220 < 1.5/< 2 16.8265 16.8242 (0.052)s, (116)s, (870)s,
For outline drawing see page 9 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	V AC VA AC) kW 20 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W V AC V AC	(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 (0.051)s, (0.510)s, (0.057) (0.510)h, (0.057)	X1 V2 15 16 16 diagram (with control signal and pause signal) 2 CO (DPDT) 12/30 2 CO (DPDT) 12/30 250/400 3000 3000 750 0.5 12/0.3/0.12 300 (5/5) AgNi 24240 24240 24240 2/2 16.8265 16.8265 10min, (0.510)min, (0.051)h, (1)h, (510)min, (0.051)h, (1)d, (0.510)d	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 24240 24240 24220 < 1.5/< 2 16.8265 16.8242 (0.052)s, (116)s, (870)s, (50180)s
For outline drawing see page 9 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	V AC VA AC) VA 20 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W V AC V AC	(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 (0.051)s, (0.510)s, (0.057 (0.510)h, (0.057)	X1 X2 15 16 16 diagram (with control signal and pause signal) 2 CO (DPDT) 12/30 2 250/400 3000 750 0.5 12/0.3/0.12 300 (5/5) 3000 (5/5) AgNi 24240 24240 24240 2/2 2 16.8265 16.8265 10min, (0.510)min, (0.051)h, 11)d, (0.510)d	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 24240 24240 24220 < 1.5/< 2 16.8265 16.8242 (0.052)s, (116)s, (870)s, (50180)s
Technical data Specified time range Technical tability Researab	V AC VA AC) VA 20 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W V AC V DC	(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 (0.051)s, (0.510)s, (0.05 ² (0.510)h, (0.05 ± 1 200 50	X1 V2	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 24240 24240 24220 < 1.5/< 2 16.8242 (0.052)s, (116)s, (870)s, (50180)s ± 1 500 ms (A1 - A2)
For outline drawing see page 9 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 AC) Greaking capacity DC1: 24/110/22 Minimum switching load Standard contact material Supply specification Nominal voltage (U _N) Rated power AC/DC Dperating range Repeatability Recovery time Minimum control impulse Setting accuracy-full range	V AC VA AC) VA 20 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W V AC V DC	(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 (0.0510)s, (0.510)s, (0.0510)s, (0.05	$\begin{array}{c} \begin{array}{c} \begin{array}{c} & & & \\ & & \\ & & \\ & \\ & \\ & \\ & \\ & $	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 24240 24240 24220 < 1.5/< 2 16.8265 16.8242 (0.052)s, (116)s, (870)s, (50180)s ± 1 500 ms (A1 - A2) ± 5
For outline drawing see page 9 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 (200 V AC) Single	V AC VA AC) VA 20 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W V AC V AC V AC V AC V AC	(with control signal) (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 (0.051)s, (0.510)s, (0.057) (0.510)s, (0.057) (0.510)h, (0.05) ± 1 200 50 ± 5 50 · 10 ³	$\begin{array}{c} \begin{array}{c} \begin{array}{c} & & & \\ & & \\ & & \\ & \\ & \\ & \\ & \\ & $	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 24240 24240 24220 < 1.5/< 2 16.8265 16.8242 (0.052)s, (116)s, (870)s, (50180)s ± 1 — 500 ms (A1 - A2) ± 5 100-10 ³
Technical data Superified time range	V AC VA AC) VA 20 V A mW (V/mA) V AC (50/60 Hz) V DC VA (50 Hz)/W V AC V DC	(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 (0.0510)s, (0.510)s, (0.0510)s, (0.05	$\begin{array}{c} \begin{array}{c} \begin{array}{c} & & & \\ & & \\ & & \\ & \\ & \\ & \\ & \\ & $	(without control signal) 2 CO (DPDT) 8/15 250/400 2000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 24240 24240 24220 < 1.5/< 2 16.8265 16.8242 (0.052)s, (116)s, (870)s, (50180)s ± 1 500 ms (A1 - A2) ± 5

83 SERIES Modular timers 16 A







83 SERIES



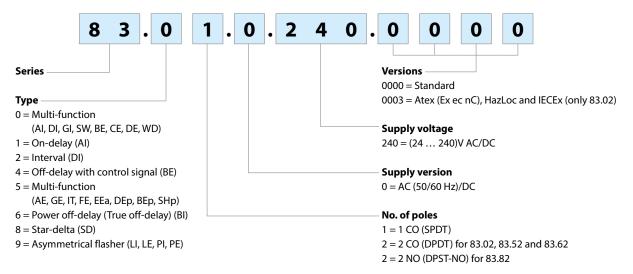
Multi-function timer and IECEx - Ex - HazLoc multi-function modular	83.02	83.02 - 0003
timer		
Туре 83.02		V3 8
- Multi-function & multi-voltage		
- 2 Pole (timed + instantaneous options),		
external time setting potentiometer option		
Type 83.02.0.240.0003 - Multi-function & multi-voltage IECEx,	¢¢	
Ex (Zone 2, Category 3), HazLoc (Cl I, Div.2)	• Multi-voltage	• IECEx - Ex - HazLoc
timer	Multi-functionTiming can be regulated using ext.	 Multi-voltage and Multi-function Timing can be regulated using ext.
- 2 Pole (timed + instantaneous options),	Potentiometer	Potentiometer
external time setting potentiometer option	• 2 timed contacts or 1 timed + 1 instantaneous	 2 timed contacts or 1 timed + 1 instantaneous
22.5 mm wide	contact	contact
• Eight time scales from 0.05 s to 10 days	AI: On-delay DI: Interval	AI: On-delay DI: Interval
 High input/output isolation Wide supply range (24240)V AC/DC 	GI: Pulse delayed SW: Symmetrical flasher	GI: Pulse delayed SW: Symmetrical flasher
• 35 mm rail (EN 60715) mount	(starting pulse on)	(starting pulse on)
• "Blade + cross" - both flat blade and cross head	BE: Off-delay with control signal CE: On- and off-delay with control signal	BE: Off-delay with control signal CE: On- and off-delay with control signal
screw drivers can be used to adjust the range	DE: Interval with control signal on	DE: Interval with control signal on
and function selectors, the timing trimmer, and	WD: Watchdog (Retriggerable interval with control signal on)	WD: Watchdog (Retriggerable interval with control signal on)
to disengage the rail mounting clip • Multi-voltage versions with "PWM clever"	L/+ N/-	L/+ N/-
 Multi-voltage versions with "PWM clever" technology) -()	$\langle \rangle$
Complies with EN 45545-2:2013 (protection	A1 A2 25(21) 28(24) 26(22) ()	A1 A2 25(21) 28(24) 26(22) - (
against fire of materials), EN 61373 (resistance		
against random vibrations and shock,	21 Z2 15 16 18 Wiring	Z1 Z2 15 16 18 Wiring
Category 1, Class B), EN 50155 (resistance to	diagram (without control signal)	diagram (without control signal)
temperature and humidity, T1 class)	L/* N/-	L/+ N/-
	A1 A2 B1 25(21) 28(24) 26(22)	A1 A2 B11 25(21) 28(24) 26(22) - ((-))
¹⁾ Short term (10 min) + 70°C	Z1 Z2 15 16 18 Wiring diagram	Z1 Z2 15 16 18 Wiring diagram
For outline drawing see page 9	님 (with control signal)	실 (with control signal)
Contact specification		
Contact configuration	2 CO (DPDT)	2 CO (DPDT)
Rated current/Maximum peak current A	12/30	10/30
Rated voltage/	250/400	277/400
Maximum switching voltage V AC		277/400
Rated load AC1 VA		2770
Rated load AC15 (230 V AC) VA		750
Single phase motor rating (230 V AC) kW		0.5
Breaking capacity DC1: 24/110/220 V A		5/0.3/0.12
Vinimum switching load mW (V/mA)		300 (5/5)
Standard contact material	AgNi	AgNi
Supply specification		
Nominal voltage (U _N) V AC (50/60 Hz)		24240
V DC		24240
Rated power AC/DC VA (50 Hz)/W	< 2/< 2	< 2/< 2
Operating range V AC	16.8265	16.8265
V DC	16.8265	16.8265
Fechnical data		
Specified time range	(0.051)s, (0.510)s, (0.051)min, (0.510)m	in, (0.051)h, (0.510)h, (0.051)d, (0.510)d
Repeatability %	±1	± 1
Recovery time ms	200	200
Minimum control impulse ms	50	50
Setting accuracy-full range %	± 5	± 5
Electrical life at rated load in AC1 cycles	60 · 10 ³	60 · 10 ³
Ambient temperature range °C		-20+55
Protection category	IP 20	IP 20



83

Ordering information

Example: 83 series, modular timers, 1 CO (SPDT) - 16 A, supply rated at (24...240)V AC/DC.



Technical data

Insulation							
Dielectric strength	betweer	n input and output circuit	V AC	4000			
	between open contacts VAC		V AC	1000			
Insulation (1.2/50 μs) between input and output kV			6				
EMC specifications							
Type of test				Reference standard	83.01/02/52	2/11/21/41/82/91	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		(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 termin	al (B1)	EN 61000-4-4	7 kV		6 kV
Surges (1.2/50 µs) on Supply terminals	5	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 (B1)			< 1 mA			
- max	cable len	gth (capacity of \leq 10 nF/10	00 m)	150 m			
		ng a control signal to B1, w		B1 is isolated from A1 and A2 by an opto-coupler, and can therefore be operated at a voltage other than the supply voltage.			can therefore be
is dif	ferent fro	om the supply voltage at A	1/A2				
				If using a control signal of between $(2448)V$ DC and a supply voltage of $(24240)V$ AC, ensure that the signal - is connected to A2 and the +			
				is applied to B1, and that L is applied to B1 and N to A2.			
External potentiometer for 83.02/52	External notentiometer for 83 02/52			Use a 10 k Ω / \geq 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.				
			1.4				
A c		with rated current	W				
Screw torque			Nm	0.8			
Max. wire size				solid cable		stranded cable	
				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	

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83 SERIES

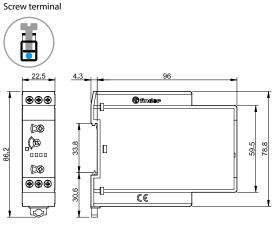


Markings - Type 83.02...0003 - ATEX, IECEx and HazLoc versions

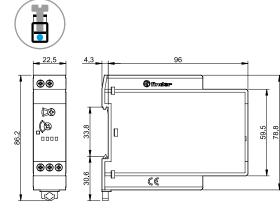
ATEX (UL 23 ATEX 3005 X):	II 3 G	(Ex)
IECEx (IECEx ULD 23.0013 X):	Ex ec nC IIC T4 Gc	
Haz.Loc. (E497395):	Cl I, Div2, Gr A, B, C, D, T4 Cl I, Zn 2, AEx ec nC IIC T4 Ex ec nC IIC T4 Gc X	EUSTED IND.CONT.EQ FOR HAZLOC.
Specific marking of explosion pro	otection	
II Component for surface plant	(different from mines)	
3 Category 3: normal level of p	rotection	
G - CI I Explosive atmosphere d or mist	ue to presence of combustil	ble gas vapour
Div 2 - Zn 2 Hazardous explosiv	e concentration presence jus	st in case of fault
Ex ec - AEx ec Increased safety		
Ex nC - AEx nC Sealed device		
IIC - Gr A, B, C, D Gas group		
T4 Temperature class		
Gc Device protection level		
-20°C ≤ Ta ≤ +55°C		
Ambient temperature range		
UL 23 ATEX 3005 X - IECEx ULD UL - ULD: ID of the notified body		cate
23: year of issue of the certificate		
3005 - 0013: number of the type E497395: UL file number	certificate	
X: special instruction for use		
Zyy: production batch identific	ation	
Z: year, yy: week		



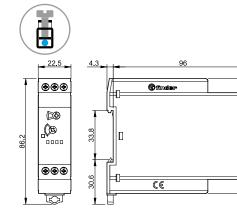
Outline drawings Type 83.01



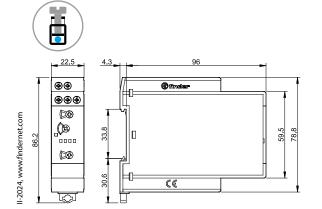




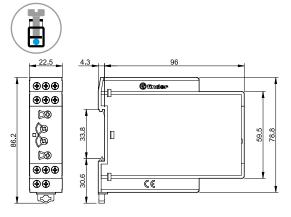




Type 83.82 Screw terminal

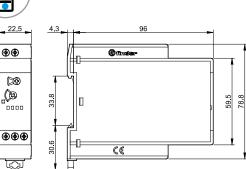








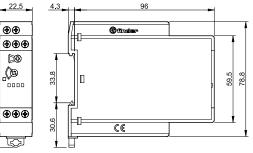






86.2





Type 83.91

86.2

59.5 78.8

> Screw terminal E 22.5 4.3 96 •• Øa œ 33.8 59.5 78.8 86.2 œ •• 30.6 ¢€ ۲ G

83 SERIES





087.02.2

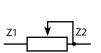
Accessories

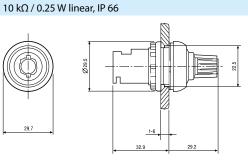


Sheet of marker tags (CEMBRE Thermal transfer printers) for relays types	
83.01/11/21/41/62/82, plastic, 48 tags, 6 x 12 mm	060.48

060.48





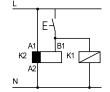


Potentiometer usable as external potentiometer for type 83.02/52

Functions

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



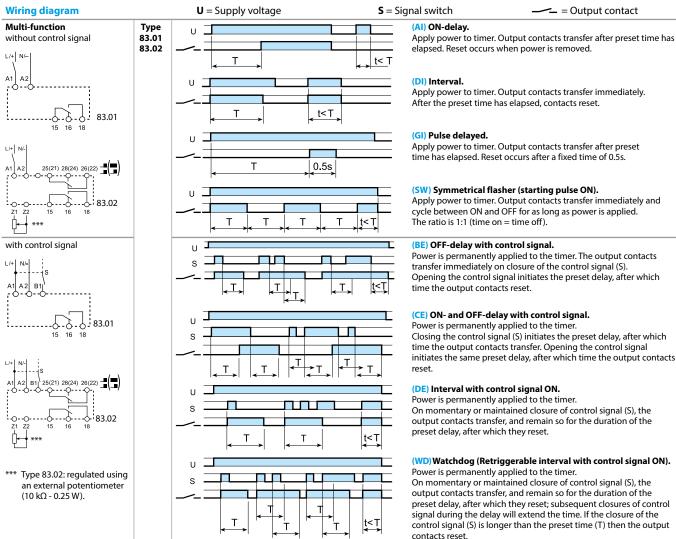
* With DC supply, positive polarity has to be connected to B1 terminal (according to EN 60204-1).



- ** 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

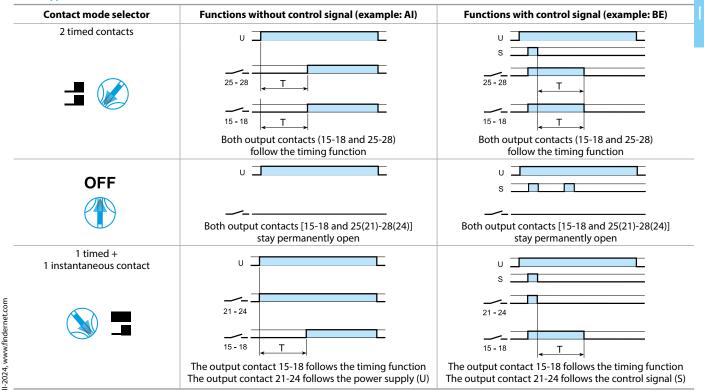
83 SERIES Modular timers 8 - 10 - 12 - 16 A

Functions



NOTE: The timing function must be set when the timer is de-energised. Or for the 83.02/52, when the contact mode selector is in the OFF position.

83.02 type



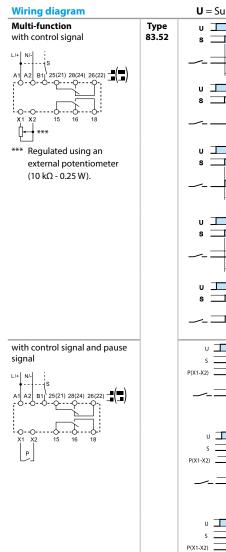
Inder

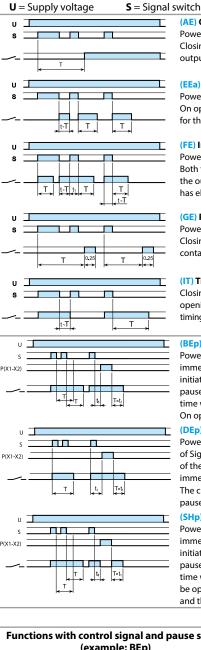




— = Output contact

Functions





cch **P** = Pause switch

(AE) ON-delay with control signal. Power is permanently applied to the timer.

Closing the Signal Switch (S) initiates the preset delay, after which times the output contacts transfer and remain so until the power is removed.

(EEa) Interval with control signal OFF (retriggerable).

Power is permanently applied to the timer. On opening of the Signal Switch (S) the output contacts transfer, and remain so for the duration of the preset delay, after which they reset.

(FE) Interval with control signal ON and OFF.

Power is permanently applied to the timer.

Both the opening and the closing of the Signal Switch (S) initiates the transfer of the output contacts. In both instances the contacts reset after the preset delay has elapsed.

(GE) Pulse delayed with control signal ON.

Power is permanently applied to the timer. Closing the Signal Switch (S) initiates the preset delay, after which the output

contacts transfer. Reset occurs after a fixed time of 0.25 s.

(IT) Timing step.

Closing the Signal Switch (S) the output contacts transfer and remain so, after S opening, for the duration of the preset delay, after which they reset. During the timing period it is possible to immediate open the contact with a further impulse on S.

(BEp) OFF-delay with control signal and pause signal.

Power is permanently 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 the output contacts reset. Closure of the pause switch (X1-X2) will immediately halt the timing process, but the elapsed time will be retained. The current state of the output contacts will be maintained. On opening of the pause switch, timing resumes from the retained value.

(DEp) Interval with control signal ON and pause signal.

Power is permanently 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. Closure of the pause switch (X1-X2) will immediately halt the timing process, but the elapsed time will be retained. The current state of the output contacts will be maintained. On opening of the pause switch, timing resumes from the retained value.

(SHp) "Shower" function (OFF-delay with control signal and pause signal).

Power is permanently 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 the output contacts reset. Closure of the pause switch (X1-X2) will immediately halt the timing process, but the elapsed time will be retained. During the pause, the output contacts 15-18 and 25-28 will be open. On opening of the pause switch, timing resumes from the retained value and the output contacts will take the previous condition.

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83.52 type

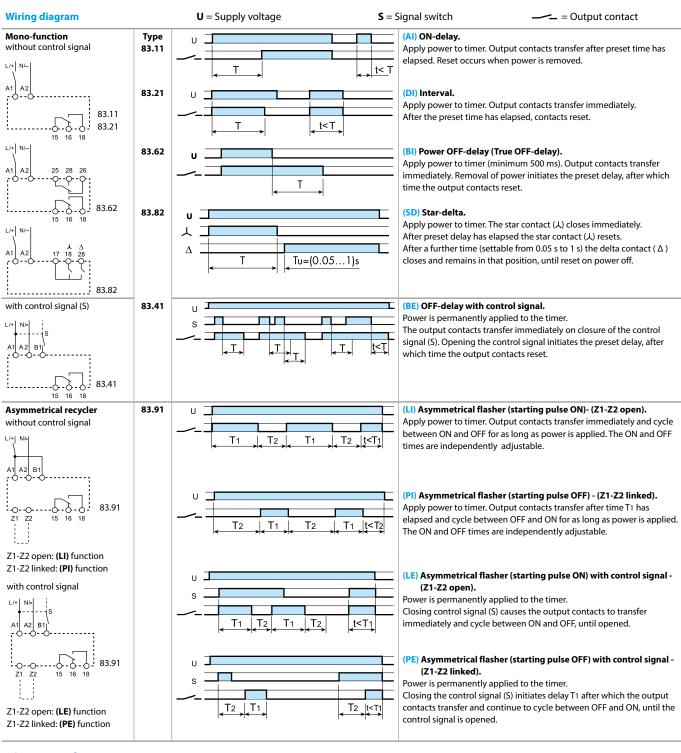
opioz type		
Contact mode selector	Functions with control signal and pause signal (example: BEp)	Function SHp
2 timed contacts	U	U
	S P(X1-X2)	S P(X1-X2)
C		
	Both output contacts (15-18 and 25-28) follow the timing function	Both output contacts (15-18 and 25-28) follow the timing function
OFF		
	P(X1-X2)	P(X1-X2)
	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		
	P(X1-X2)	P(X1-X2)
	21-24 The output contact 15-18 follows the timing function	21-24 The output contact 15 18 follows the timing function. The output
	The output contact 13-18 follows the timing function The output contact 21-24 follows the control signal (S)	The output contact 15-18 follows the timing function. The output contact 21-24 is always open, unless during the pause, when is closed

83 SERIES Modular timers 8 - 10 - 12 - 16 A



83

Functions



Times scales

Rotary switch position 83 series

