

Modular timers 16 A







80.11T

N/ - L/+

Multi-function and mono-function timer range 80.01T - Multi-function & multi-voltage 80.11T - On-delay, multi-voltage

- Complies with EN 45545-2 +A1:2016 (protection against fire of materials), EN 61373 (resistance against random vibrations and shock, Category 1, Class B), EN 50155 (resistance to temperature and humidity, T1 class)
- 17.5 mm wide
- Six time scales from 0.1 s to 24 h
- High input/output isolation
- "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
- New multi-voltage versions with "PWM clever" technology
- 35 mm rail (EN 60715) mount

80.01T / 80.11T Screw terminal



* Short term (10 min) +70°C

80.01T



- Multi-voltage
- Multi-function

AI: On-delay

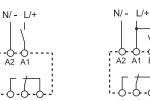
DI: Interval

SW: Symmetrical flasher (starting pulse on)

BE: Off-delay with control signal

CE: On- and off-delay with control signal

DE: Interval with control signal on



Wiring diagram

Wiring diagram

• Multi-voltage

AI: On-delay

• Mono-function

Wiring diagram

For outline drawing see page 8		(without control signal)	(with control signal)	(without control signal)	
Contact specification					
Contact configuration		1 CO (SPDT)		1 CO (SPDT)	
Rated current/Maximum peak current A		16/30		16/30	
Rated voltage/					
Maximum switching voltage V AC		250/400		250/400	
Rated load AC1 VA		4000		4000	
Rated load AC15 (230 V AC) VA		750		750	
Single phase motor rating (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 (10/5)		500 (10/5)	
Standard contact material		AgNi		AgNi	
Supply specification					
Nominal voltage (U _N) V AC (50/60 Hz)		12240		24240	
	V DC	12	240	24240	
Rated power AC/DC VA (50 Hz)/W		< 1.8/< 1		< 1.8/< 1	
Operating range V AC V DC		10.8265		16.8265	
		10.8265		16.8265	
Technical data					
Specified time range		(0.12)s, (120)s, (0.12)min, (120)min, (0.12)h, (124)h			
Repeatability %		±1		± 1	
Recovery time ms		≤ 50		≤ 50	
Minimum control impulse ms		50		_	
Setting accuracy-full range %		± 5		± 5	
Electrical life at rated load in AC	1 cycles	100 · 10³		100 · 10³	
Ambient temperature range	°C	-25+55*		-25+55*	
Protection category		IP 20		IP 20	
Approvals (according to type)		C € °®" EH[



80.61T

Mono-function timer range

80.41T - Off-delay with control signal, multi-voltage

80.61T - Power off-delay (True off-delay), multi-voltage

- Complies with EN 45545-2 +A1:2016 (protection against fire of materials), EN 61373 (resistance against random vibrations and shock, Category 1, Class B), EN 50155 (resistance to temperature and humidity, T1 class)
- 17.5 mm wide
- Type 80.41T: six time scales from 0.1 s to 24 h
- Type 80.61T: four time scales from 0.05 s to 3 min

 BE: Off-delay with control signal
- High input/output isolation
- "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
- New multi-voltage versions with "PWM clever" technology
- 35 mm rail (EN 60715) mount

80.41T / 80.61T Screw terminal



* Short term (10 min) +70°C



- Multi-voltage
- Mono-function

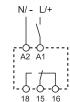
• Multi-voltage

• Mono-function

BI: Power off-delay (True off-delay)



Wiring diagram



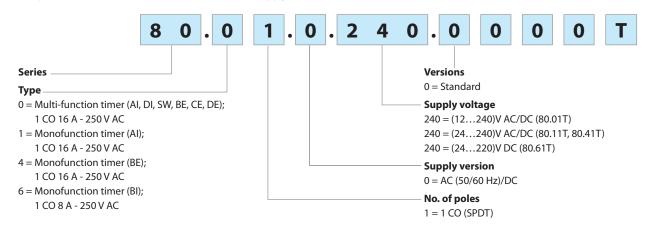
Wiring diagram

For outline drawing see page 8		Wiring diagram (with control signal)	Wiring diagram (without control signal)	
Contact specification				
Contact configuration		1 CO (SPDT)	1 CO (SPDT)	
Rated current/Maximum peak cur	rrent A	16/30	8/15	
Rated voltage/			0.70 / 100	
Maximum switching voltage Rated load AC1	V AC VA	250/400 4000	250/400	
Rated load AC15 (230 V AC)	VA	750	400	
Single phase motor rating (230 V AC) kW		0.55	0.3	
Breaking capacity DC1: 30/110/220 V A		16/0.3/0.12	8/0.3/0.12	
Minimum switching load	mW (V/mA)	500 (10/5)	300 (5/5)	
Standard contact material		AgNi	AgNi	
Supply specification				
Nominal voltage (U _N) V AC (50/60 Hz)		24240	24240	
	V DC	24240	24220	
Rated power AC/DC	VA (50 Hz)/W	< 1.8/< 1	< 0.6/<0.6	
Operating range V AC V DC		16.8265	16.8265	
		16.8265	16.8242	
Technical data				
Specified time range		(0.12)s, (120)s, (0.12)min, (120)min, (0.12)h, (124)h	(0.052)s, (116)s, (870)s, (50180)s	
Repeatability %		± 1	± 1	
Recovery time	ms	≤ 50	-	
Minimum control impulse ms		50	500 (A1-A2)	
Setting accuracy-full range	%	± 5	± 5	
Electrical life at rated load in AC1	cycles	100 · 10³	100 · 10³	
Ambient temperature range	°C	-25+55*	-25+55*	
Protection category		IP 20 IP 20		
Approvals (according to type)		C € c@us [A[



Ordering information

Example: 80 series, modular timers, 1 CO (SPDT) - 16 A, supply rated at (12...240)V AC/DC.



Technical data

Insulation					
Dielectric strength			80.01T/11T/41T	80.61T	
k	petween input and output circuit	V AC	4000	2500	
k	between open contacts		1000	1000	
Insulation (1.2/50 μs) between input and output kV			6	4	
EMC specifications					
Type of test			Reference standard		
Electrostatic discharge	contact discharge		EN 61000-4-2	4 kV	
	air discharge	air discharge		8 kV	
Radio-frequency electromagnetic fi	ield (80 ÷ 1000 MHz)	EN 61000-4-3	10 V/m		
Fast transients (burst) (5-50 ns, 5 kH	lz) on Supply terminals	EN 61000-4-4	4 kV		
Surges (1.2/50 μ s) on Supply termin	nals common mode	common mode		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 emission			EN 55022	class B	
Other data					
Current absorption on signal control (B1)			< 1 mA		
Power lost to the environment	without contact cur	rent W	1.4		
	with rated current	W	3.2		
Screw torque		Nm	0.8		
Max. wire size			solid cable	stranded cable	
		mm ²	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	



Functions

U = Supply voltage

S = Signal switch

= Output contact

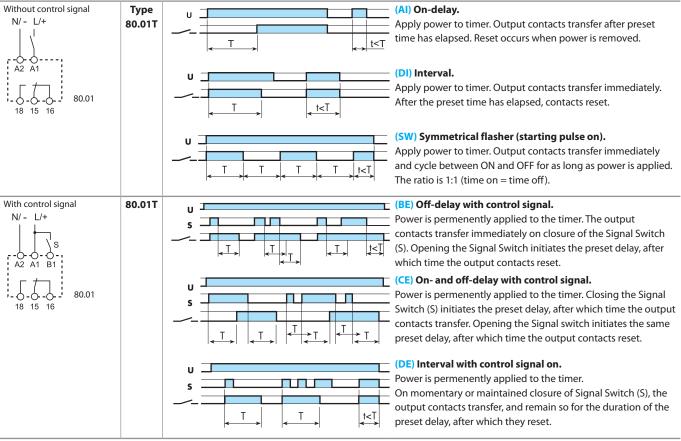
,	LED*	Supply voltage	NO output	Contacts	
			contact	Open	Closed
		OFF	Open	15 - 18	15 - 16
t		ON	Open	15 - 18	15 - 16
	шшш	ON	Open (Timing in Progress)	15 - 18	15 - 16
		ON	Closed	15 - 16	15 - 18

st The LED on type 80.61T is illuminated only when the supply voltage is applied to the timer; during the timing period the LED is not illuminated.

Without control signal = Start via contact in supply line (A1).

Wiring diagram

With control signal = Start via contact into control terminal (B1).

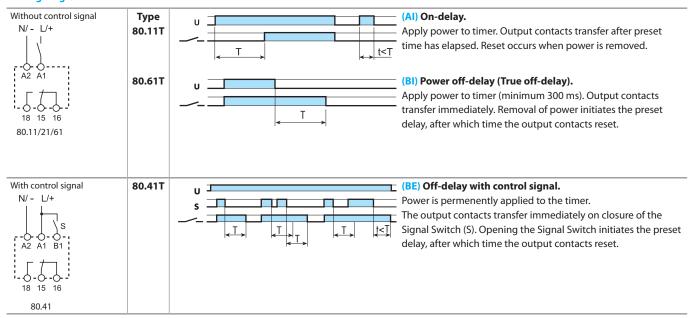


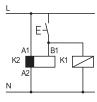
NOTE: The function must be set before energising the timer.



Functions

Wiring diagram





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



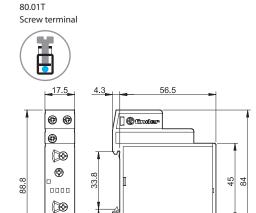
* With DC supply, positive polarity has to be connected to B1 terminal (according to EN 60204-1).



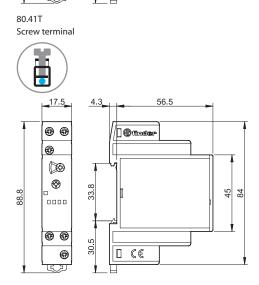
** A voltage other than the supply voltage can be applied to the command Start (B1), example:



Outline drawings



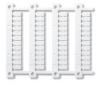
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80.11T Screw terminal 17.5 ⊕ ⊕ Minda 45 84 ____ ⊕ ⊕ □ (€ 80.61T Screw terminal 17.5 ⊕ ⊕ (Indian

Accessories

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060.48

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

⊕ ⊕

(B)

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060.48

45 84

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