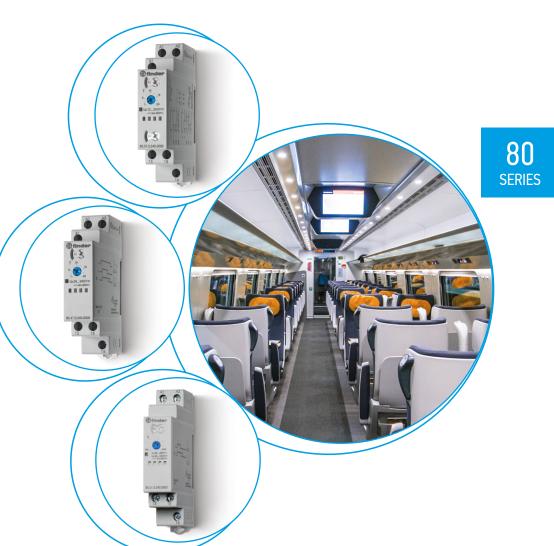


Modular timers 8 - 16 A





Door control



Message panels infotainment



Driver's control console

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

- Complies with EN 45545-2:2020 (protection against fire of materials), EN 61373 (resistance against random vibrations and shock, Category 1, Class B), EN 50155 (resistance to temperature and humidity, OT4/ST1 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

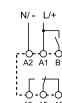


* Short term (10 min) +70°C

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

N/-L/+

Wiring diagram

C € ८¼ º⑩'' [H[

• Multi-voltage • Mono-function

AI: On-delay



lacksquarefinder

80.11T

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 cu	urrent A	16/30		16/30	
Rated voltage/					
Maximum switching voltage	V AC	250/400		250/400	
Rated load AC1	VA	400		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: 24/110/220 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		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	10.8	.265	16.8265	
	V DC	10.8	.265	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	± 1	
Recovery time	ms	≤ 5	0	≤ 50	
Minimum control impulse	ms	50		_	
Setting accuracy-full range	%	±5	5	± 5	
Electrical life at rated load in AC1	l cycles	100 ·	10³	100 · 10³	
Ambient temperature range	°C	-25 -	+55*	-25+55*	
Protection category		IP 2	0	IP 20	

Approvals (according to type)



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

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

- Complies with EN 45545-2:2020 (protection against fire of materials), EN 61373 (resistance against random vibrations and shock, Category 1, Class B), EN 50155 (resistance to temperature and humidity, OT4/ST1 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
- 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

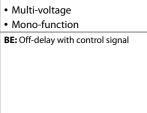
80.41T / 80.61T Screw terminal

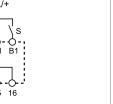


* Short term (10 min) +70°C

80.41T

- Multi-voltage
- Mono-function

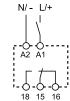






• Multi-voltage • Mono-function

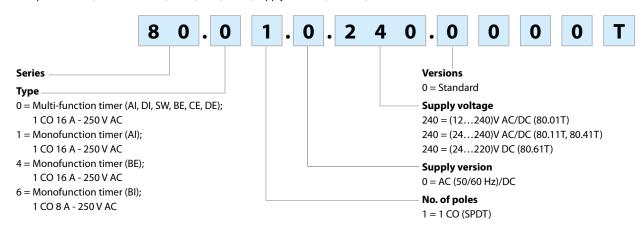
BI: Power off-delay (True off-delay)



For outline drawing see page 8		Wiring diagram (with control signal)	Wiring diagram (without control signal)	
Contact specification				
Contact specification Contact configuration		1 CO (SPDT)	1 CO (SPDT)	
Rated current/Maximum peak current A		16/30	8/15	
Rated voltage/		10/30	6/13	
Maximum switching voltage	V AC	250/400	250/400	
Rated load AC1	VA	4000	2000	
Rated load AC15 (230 V AC)	VA	750	400	
Single phase motor rating (230 V	AC) kW	0.55	0.3	
Breaking capacity DC1: 24/110/220 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	16.8265	16.8265	
	V DC	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€ ₽₹ °® EU[

Ordering information

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



Technical data

reciffical data						
Insulation						
Dielectric strength			80.01T/11T/41T	80.61T		
	between input	and output circuit	V AC	4000	2500	
	between open contacts		V AC	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		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 emission				EN 55022	class B	
Other data						
Current absorption on signal contr	ol (B1)			< 1 mA		
Power lost to the environment		without contact curr	ent W	1.4		
		with rated current	W	3.2		
Screw torque Nm			0.8			
Max. wire size				solid cable	stranded cable	
			mm ²	1x6/2x4	1 x 4 / 2 x 2.5	
			AWG	1 x 10 / 2 x 12	1 x 12 / 2 x 14	

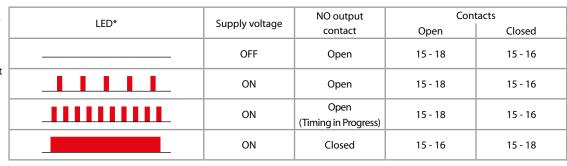


Functions

U = Supply voltage

S = Signal switch

= Output contact

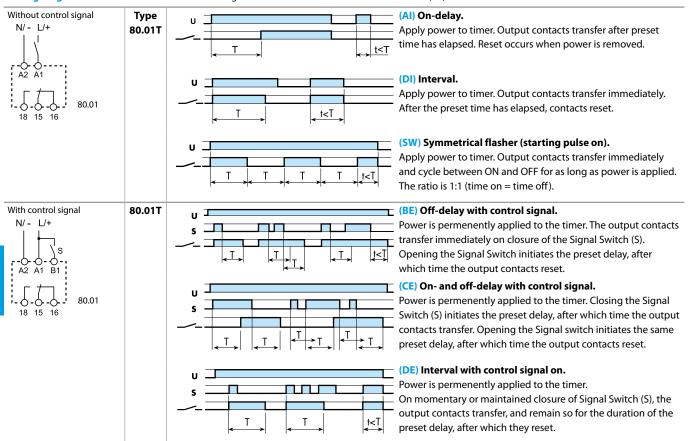


^{*}The LED on type 80.61T is illuminated only when the supply voltage is applied to the timer; during the timing period the LED is not illuminated.

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

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

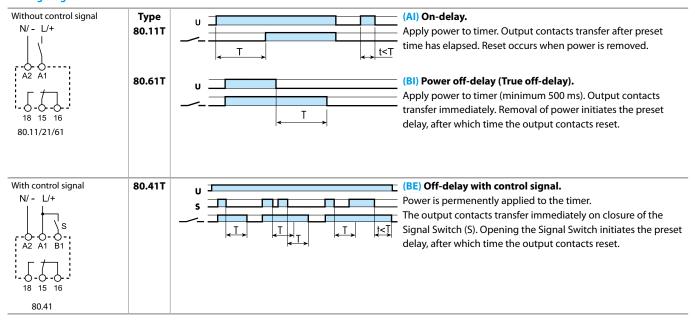
Wiring diagram

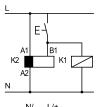


NOTE: The function must be set before energising the timer.

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).



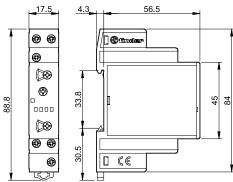
** A voltage other than the supply voltage can be applied to the command Start (B1), example:



Outline drawings

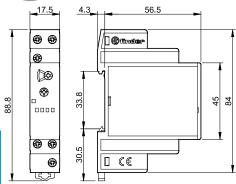
Type 80.01T Screw terminal



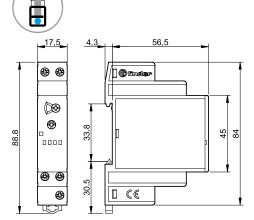


Type 80.41T Screw terminal



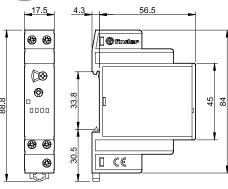


Type 80.11T Screw terminal

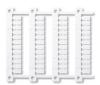


Type 80.61T Screw terminal





Accessories



060.48

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

060.48