

Modular timers 16 A



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Multi-function and mono-function timer range		80.01T		80.11T	
80.01T - Multi-function & multi-voltage		80.011		00.111	
 80.011 - Initi-Function & Initi-Voltage 80.111 - 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 		• Multi-voltage • Multi-function		• Multi-voltage • Mono-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 		Al: On-delay	
80.01T / 80.11T					
Screw terminal		N/- L/+ A2 A1 	N/- L/+ -0-0-0- A2 A1 B1 -0-0-0- 18 15 16	N/ - L/+ $A_2 A_1$ $A_2 A_1$ $A_2 A_1$ $A_2 A_1$ $A_2 A_1$ $A_3 A_1$ $A_4 A_1$ $A_5 A_2$ $A_5 A_1$ $A_5 A_2$ $A_5 A_1$ $A_5 A_2$ $A_5 A_3$ $A_5 A_3$ $A_5 A_3$ $A_5 A_3$ $A_5 A_3$ $A_5 A_3$	
* Short term (10 min) +70°C		Wiring diagram	Wiring diagram	Wiring diagram	
For outline drawing see page 8			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	12240		24240	
Rated power AC/DC VA (50	-	< 1.8/< 1		< 1.8/< 1	
Operating range	V AC	10.8265		16.8265	
	V DC	10.8265	5	16.8265	
Technical data		· · · · ·			
Specified time range	~		ı20)s, (0.12)min,	(120)min, (0.12)h, (124)h	
Repeatability	%	±1		± 1	
Recovery time Minimum control impulse	ms	≤ 50 50		≤ 50	
Setting accuracy-full range	ms %	50 ± 5			
Electrical life at rated load in AC1 cycles		± 5 100 · 10 ³		± 5 100 · 10 ³	
Ambient temperature range °C		-25+55*		-25+55*	
Protection category	ر ر	IP 20		-23+55 th IP 20	
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Approvals (according to type)					

80 SERIES



Mono-function timer range		80.41T	80.61T	
•	ol signal,	i interest	6	
 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 High input/output isolation "Blade + cross" - both flat blade and cross head screw drivers can be used to adjust the range 		 Multi-voltage Mono-function BE: Off-delay with control signal 	• Multi-voltage • Mono-function BI: Power off-delay (True off-delay)	
and function selectors, the tim to disengage the rail mounting • New multi-voltage versions w technology • 35 mm rail (EN 60715) mount 80.41T / 80.61T Screw terminal	l clip	N/- L/+ -0-0-0- A2 A1 B1 -0-0-0- 18 15 16	N/- L/+ $A_2 A_1$ $A_2 A_1$ $A_2 A_1$ $A_2 A_1$ $A_2 A_1$ $A_2 A_1$ $A_3 A_1$ $A_4 A_1$ $A_5 A_2$ $A_5 A_1$ $A_5 A_2$ $A_5 A_1$ $A_5 A_2$ $A_5 A_3$ $A_5 A_3$ $A_5 A_3$ $A_5 A_3$ $A_5 A_3$ $A_5 A_3$	
* Short term (10 min) +70°C		Wiring diagram	Wiring diagram	
For outline drawing see page 8		(with control signal)	(without control signal)	
Contact specification				
Contact configuration		1 CO (SPDT)	1 CO (SPDT)	
Rated current/Maximum peak c	urrent A	16/30	8/15	
Rated voltage/ Maximum switching voltage	VAC	250/400	250/400	
Rated load AC1	VA	4000	2000	
Rated load AC15 (230 V AC)	VA	750	400	
Single phase motor rating (230)	VAC) 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	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,	(0.052)s, (116)s, (870)s, (50180)s	
		(0.12)h, (124)h	(0.052)3, (110)5, (670)5, (50180)5	
epeatability %		± 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 AC		100 · 10 ³	100 · 10 ³	
Ambient temperature range	°C	-25+55*	-25+55*	
Protection category		IP 20	IP 20	
Approvals (according to type)			℗ տ [A[

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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	
	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	2	EN 61000-4-2	4 kV	
	air discharge		EN 61000-4-2	8 kV	
Radio-frequency electromagnet	c 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 terr	minals 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	e (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 cor	ntrol (B1)	< 1 mA			
Power lost to the environment	without contact of	current W	1.4		
	with rated curren	t 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	



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Functions

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* 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).



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



Functions





• 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: A1 - A2 = 230 V AC B1 - A2 = 12 V DC



Outline drawings



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Accessories

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