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## 80 Series - Modular timers 16 A

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Features	80.01	80.11	
Multi-function and mono-function timer range 80.01 - Multi-function & multi-voltage 80.11 - On-delay, multi-voltage • 17.5 mm wide		• Multivoltage	
<ul> <li>Six time scales trom 0.1s to 24h</li> <li>High input/output isolation</li> <li>35 mm rail (EN 60715) mount</li> <li>"Blade + cross" - both flat blade and cross head screw drivers can be used to adjust the range and function selectors, the timing trimmer, and</li> </ul>	• Multi-voltage		
<ul> <li>to disengage the rail mounting clip</li> <li>New multi-voltage versions with "PWM clever" technology</li> </ul>	Multi-function	Mono-function     Al: On-delay	
80.01 / 80.11 Screw terminal	<ul> <li>Di: Interval</li> <li>SW: Symmetrical flasher (starting pulse on)</li> <li>BE: Off-delay with control signal</li> <li>CE: On- and off-delay with control signal</li> <li>DE: Interval with control signal on</li> </ul>		
	N' - U' + $A^2 A^1$ $A^2 I A^2$ $A^2 I A^1$ $A^2 I$	N/-L/+ A2 A1 A2 A1 A2 A1 A2 A1	
FOR UL RATINGS SEE: "General technical information" page V	Wiring diagram Wiring diagram	Wiring diagram	
For outline drawing see page o	(winou control signal) (win control signal)		
Contact specification			
Bated surrent (Maximum neak surrent	16/20	16 (20	н
Rated voltage / Maximum switching voltage // AC	250/400	250/400	
Rated load AC1	4 000	4 000	
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	AgCdO	AgCdO	
Supply specification			
Nominal voltage (U <sub>N</sub> ) V AC (50/60 Hz)	12240	24240	
V DC	12240	24240	
Rated power AC/DC VA (50 Hz)/W	< 1.8 / < 1	< 1.8 / < 1	
Operating range V AC	10.8265	16.8265	
V DC	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	100	100	
Minimum control impulse ms	50	_	
Setting accuracy-full range %	± 5	± 5	
Electrical life at rated load in AC1 cycles	100·10 <sup>3</sup>	100·10 <sup>3</sup>	
Ambient temperature range °C	-10+50	-10+50	
Protection category	IP 20	IP 20	
Approvals (according to type)	CE ERE 👁	RINA ellus	

## 80 Series - Modular timers 16 A

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Features	80.21	80.41	80.91	
Mono-function timer range	A1 A2 Read	i i in	A1 42 [Sala]	
<ul> <li>80.21 - Interval, multi-voltage</li> <li>80.41 - Off-delay with control signal, multi-voltage</li> <li>80.91 - Asymmetrical flasher, multi-voltage</li> <li>17.5 mm wide</li> <li>Six time scales from 0.1s to 24h</li> <li>High input/output isolation</li> <li>25 (5215)</li> </ul>				
<ul> <li>35 mm rail (EN 60/15) mount</li> <li>"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</li> <li>New multi-voltage versions with "PWM clever"</li> </ul>	Multi-voltage     Mono-function	Multi-voltage     Mono-function	Multi-voltage     Mono-function	
technology			(starting pulse on)	
80.21 / 80.41 / 80.91 Screw terminal	N/- L/+	N/- L/+	N/- L/+ N/- L/+	
	A2 A1 	A2 A1 B1 -0-0-0- 18 15 16	A2 A1 B1 A2 A1 B1 A3	
For UL RATINGS SEE: "General technical information" page V For outline drawing see page 6	Wiring diagram (without control signal)	Wiring diagram (with control signal)	Wiring diagram Wiring diagram (without control (with control signal) signal)	
Contact specification		(		
Contact configuration	1 CO (SPDT)	1 CO (SPDT)	1 CO (SPDT)	
Rated current/Maximum peak current A	16/30	16/30	16/30	
Rated voltage/Maximum switching voltage V AC	250/400	250/400	250/400	
Rated load AC1 VA	4,000	4,000	4,000	
Rated load AC15 (230 V AC) VA	. 750	750	750	
Single phase motor rating (230 V AC) kW	0.55	0.55	0.55	
Breaking capacity DC1: 30/110/220 V A	16/0.3/0.12	16/0.3/0.12	16/0.3/0.12	
Minimum switching load mVV (V/mA)	500 (10/5)	500 (10/5)	500 (10/5)	
	Agedo	Agedo	Agedo	
Nominal voltage (U <sub>N</sub> ) V AC (50/60 Hz)	24240	24240	12240	
V DC	24240	24240	12240	
Rated power AC/DC VA (50 Hz)/W	< 1.8 / < 1	< 1.8 / < 1	< 1.8 / < 1	
Operating range V AC	16.8265	16.8265	10.8265	
V DC	16.8265	16.8265	10.8265	
Technical data				
Specified time range	(0.12)s, (120	D)s, (0.12)min, (120)min, (0	.12)h, (124)h	
Repeatability %	± 1	± 1	± 1	
Recovery time ms	100	100	100	
Minimum control impulse ms	-	50	50	
Setting accuracy-tull range %	± 5	± 5	± 5	
Electrical life at rated load in AC I cycles	100.103	100.103	100.10	
Protection category	-IU+3U	-IU+3U	-IU+3U	
	IF ZV	IF ZU	IF ZV	
Approvals (according to type)			(h)	

### 80 Series - Modular Solid State timer (SST) 1 A



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Features	80.61 80.82		
Mono-function timer range			
80.61 - Power off-delay (True off-delay),	Brinder	Crinder	
multi-voltage			
17.5 successful			
<ul> <li>I7.5 mm wide</li> <li>Rotary range selector, and timing trimmer</li> </ul>	86.46.35446.0000		
• Four time scales from 0.05s to 3 min (type 80.61)	(C)		
<ul> <li>Six time scales from 0.1s to 20min (type 80.82)</li> <li>High input/output isolation</li> </ul>	16		
• 35 mm rail (EN 60715) mount	Multi-voltage     Mono-function	Multi-voltage     Mono-function	
80.61 / 80.82		• Transfer time can be regulated (0.051)s	
Screw terminal	BI: Power off-delay (True off-delay)	SD: Star-delta	
	N/ 17		
		N/- L/+	
	A2 A1	A2 A1	
	18 15 16		
For UL ratings see:			
General technical information page v	Wiring diagram	Wiring diagram	
For outline drawing see page 6	(without control signal)	(without control signal)	
Contact specification			
Contact configuration	1 CO (SPDT)	2 NO (DPST-NO)	
Rated current/Maximum peak current A	8/15	6/10	
Rated voltage/Maximum switching voltage V AC	250/400	250/400	
Rated load AC1 VA	2,000	1,500	
Rated load AC15 (230 V AC) VA	400	300	
Breaking capacity DC1: 30/110/220 V	8/0 3/0 12		
Minimum switching load mW (V/mA)	300 (5/5)	500 (12/10)	
Standard contact material	AgNi	AgNi	
Supply specification	· · · · · ·		
Nominal voltage (U <sub>N</sub> ) V AC (50/60 Hz)	24240	24240	
V DC	24220	24240	
Rated power AC/DC VA (50 Hz)/W	< 0.6/ < 0.6	< 1.3/ < 0.8	
Operating range V AC	16.8265	16.8265	
V DC	16.8242	16.8265	
Technical data			
Specified time range	(0.052)s, (116)s, (870)s, (50180)s	(0.12)s, (120)s, (0.12)min, (120)min	
Repeatability %	± 1	± 1	
Recovery time ms	-	100	
Minimum control impulse ms	500 (A1-A2)		
Setting accuracy-tull range %	± 5	± 5	
Electrical life at rated load in AC1 cycles			
Protection category	= 10+30 IP 20	-10+30	
Approvals (according to type)			

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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			80.01/11/21/41/82/91	80.61	80.71	
	between input and output circuit	V AC	4,000	2,500	2,500	
	between open contacts	V AC	1,000	1,000	_	
Insulation (1.2/50 µs) between	input and output	kV	6	4	4	
EMC specifications					1	
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 electromagneti	c field (80 ÷ 1,000 MHz)		EN 61000-4-3	10 V/m	10 V/m	
Fast transients (burst) (5-50 ns,	5 kHz) on Supply terminals		EN 61000-4-4	4 kV	4 kV	
Surges (1.2/50 µs) on Supply t	erminals common mode		EN 61000-4-5	4 kV		
	differential mode		EN 61000-4-5	4 kV		_L
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 emissi	on		EN 55022	class A		
Other data						
Current absorption on signal co	ontrol (B1)		< 1 mA			
Power lost to the environment	without contact current	t W	1.4			
	with rated current	W	3.2			
Screw torque		Nm	0.8			
Max. wire size			solid cable	stranded co	able	
		mm <sup>2</sup>	1x6 / 2x4	1x4 / 2x2.	.5	
		AWG	1x10 / 2x12	1x12 / 2x	14	

#### **Accessories**

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1000							

Sheet of marker tags, for types 80.82, plastic, 24 tags, 9x17 mm

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Sheet of marker tags, for types 80.01/11/21/41/61/71, plastic, 72 tags, 6x12 mm 060.72

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## 80 Series - Modular timers 1 - 6 - 8 - 16 A



### **Outline drawings**







80.61 Screw terminal





















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#### **Functions**

U = Supply voltage

```
\mathbf{S} = \text{Signal switch}
```

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- = Output contact
```

Wiring diagram

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

The LED on type 80.61 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.



Ó A2 о А1

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

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



### 80 Series - Modular timers 6 - 8 - 16 A



### Functions



\* 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

N/- L/+

6

A2 A1

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A1 B1

B1

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 48DC
 H3CR-A8E 24-48AC/DC
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 H3CR-F8 100-240AC/100-125DC
 H3CR-F8 100-240AC/100-125DC

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