# finder

# 80 Series - Modular timers 16 A

1

Features	80.01	80.11
Multi-function and mono-function timer range		
80.01 - Multi-function & multi-voltage 80.11 - On-delay, multi-voltage	Trader (-S)	
• 17.5 mm wide		
<ul><li>Six time scales from 0.1s to 24h</li><li>High input/output isolation</li></ul>	(13) 1000 - 2000 - 2011	40.11 A.244.000
• 35 mm rail (EN 60715) mount		
<ul> <li>"Blade + cross" - both flat blade and cross head screw drivers can be used to adjust the range</li> </ul>		
and function selectors, the timing trimmer, and to disengage the rail mounting clip	• Multi-voltage • Multi-function	Multi-voltage     Mono-function
• New multi-voltage versions with "PWM clever"		
technology	Al: On-delay DI: Interval	Al: On-delay
80.01 / 80.11 Screw terminal	SW: Symmetrical flasher (starting pulse on) BE: Off-delay with control signal	
	<b>CE:</b> On- and off-delay with control signal	
	DE: Interval with control signal on	
	N/- L/+ N/- L/+   ↓	N/- L/+
	-O-O-O- A2 A1 A2 A1 B1	A2 A1
For UL ratings see:	18 15 16 18 15 16	18 15 16
"General technical information" page V	Addition of the second se	
For outline drawing see page 6	Wiring diagram Wiring diagram (without control signal) (with control signal)	Wiring diagram (without control signal)
Contact specification		
Contact configuration	1 CO (SPDT)	1 CO (SPDT)
Rated current/Maximum peak current A	16/30	16/30 H
Rated voltage/Maximum switching voltage V AC	250/400	250/400
Rated load AC1 VA	4,000	4,000
Rated load AC15 (230 V AC)     VA       Single phase motor rating (230 V AC)     kW	0.55	750 0.55
Breaking capacity DC1: 30/110/220 V AC	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	(0,1,-2), (1,-20), (0,1,-2), (0,1,-2)	, (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	50·10 <sup>3</sup>	50·10 <sup>3</sup>
Ambient temperature range °C	-10+50	-10+50
Protection category	IP 20	IP 20
Approvals (according to type)	CE ERE 👁	RINA e us
-		]

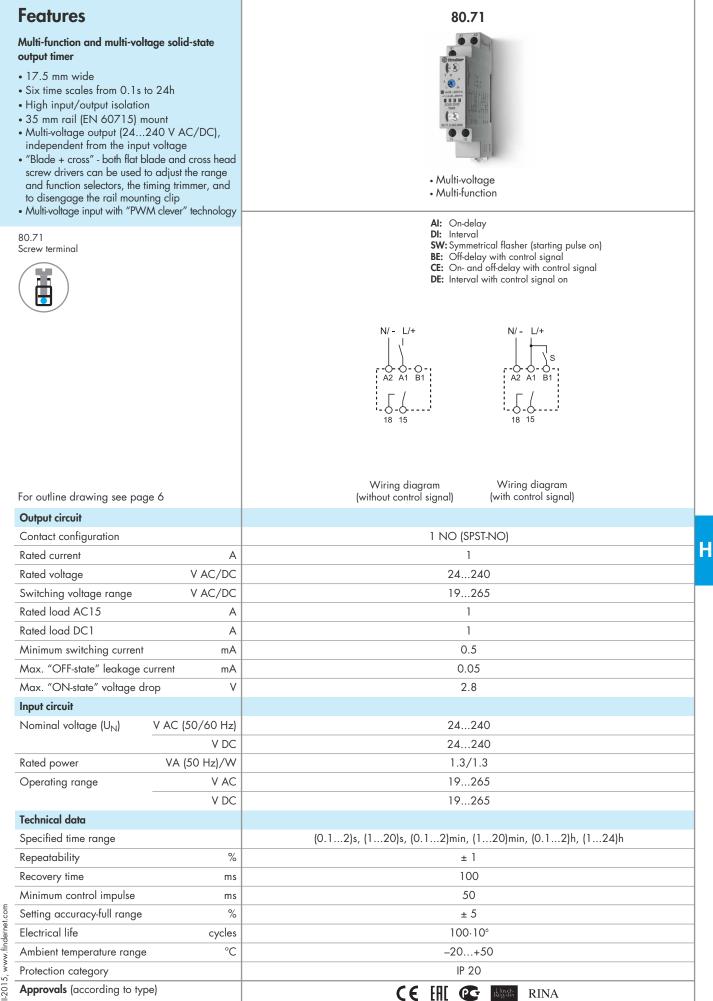
# 80 Series - Modular timers 16 A

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Features	80.21	80.41	80.91	
Mono-function timer range 80.21 - Interval, multi-voltage 80.41 - Off-delay with control signal, multi-voltage 80.91 - Asymmetrical flasher, multi-voltage • 17.5 mm wide • Six time scales from 0.1s to 24h • High input/output isolation • 35 mm rail (EN 60715) mount • "Blade + cross" - both flat blade and cross head screw drivers can be used to adjust the range	• Multi-voltage	• Multi-voltage	• Multi-voltage	
and function selectors, the timing trimmer, and to disengage the rail mounting clip • New multi-voltage versions with "PWM clever" technology	• Mono-function DI: Interval	Mono-function     BE: Off-delay with control signal	Mono-function     U: Asymmetrical flasher     (starting pulse on)     LE: Asymmetrical flasher (starting	
80.21 / 80.41 / 80.91 Screw terminal			pulse on) with control signal	
	N/- L/+ $A_2 A_1$ $A_2 A_1$ 	N/- L/+ A2 A1 B1 A2 A1 B1 -0 - 0 - 0 - 1 18 15 16	N/- L/+ N/- L/+ $A^2$ A1 B1 A2 A1 B1 $A^2$ A1 B1 $A^2$ A1 B1 $A^2$ A1 B1 $A^2$ A1 B1 $A^2$ A1 A1 B1 $A^2$ A1 A1 B1 $A^2$ A1 A1 B1 $A^2$ A1	
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 mW (V/mA)	500 (10/5)	500 (10/5)	500 (10/5)	
Standard contact material	AgCdO	AgCdO	AgCdO	
Supply specification				
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		D)s, (0.12)min, (120)min, (0		
Repeatability %	± 1	± 1	± 1	
Recovery time ms	100	100	100	
Minimum control impulse ms	_	50	50	
Setting accuracy-full range %	± 5	± 5	± 5	
Electrical life at rated load in AC1 cycles	50·10 <sup>3</sup>	50·10 <sup>3</sup>	50·10 <sup>3</sup>	
Ambient temperature range °C	-10+50	-10+50	-10+50	
Protection category	IP 20	IP 20	IP 20	
Approvals (according to type)		EHE 💽 Kasta RINA		

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



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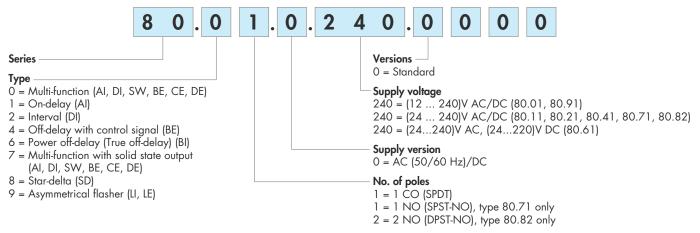
Features Mono-function timer range 80.61 - Power off-delay (True off-delay), multi-voltage 80.82 - Star-delta, multi-voltage • 17.5 mm wide • Rotary range selector, and timing trimmer • Four time scales from 0.05s to 3 min (type 80.61) • Six time scales from 0.1s to 20min (type 80.82) • High input/output isolation • 35 mm rail (EN 60715) mount 80.61 / 80.82 Screw terminal		unction timer rangePower off-delay (True off-delay), multi-voltageStar-delta, multi-voltageStar-delta, multi-voltagenm wide range selector, and timing trimmer ne scales from 0.05s to 3 min (type 80.61) e scales from 0.1s to 20min (type 80.82) nput/output isolation n rail (EN 60715) mount80.82		
For UL ratings see: "General technical information" page V	V	N/- L/+ A2 A1 A2 A1 -0-0	N/- L/+ A2 A1 A2 A1 A1 -0 - 0 - 01 17 18 28 $A \Delta$	
	v	Wiring diagram (without control signal)	Wiring diagram (without control signal)	
For outline drawing see page 6 Contact specification			(winou conroi signal)	
Contact configuration		1 CO (SPDT)	2 NO (DPST-NO)	
Rated current/Maximum peak current	A	8/15 6/10		
Rated voltage/Maximum switching voltage		250/400	250/400	
Rated load AC1	VA	2,000	1,500	
Rated load AC15 (230 V AC)	VA	400	300	
Single phase motor rating (230 V AC)	kW	0.3	_	
Breaking capacity DC1: 30/110/220		8/0.3/0.12	6/0.2/0.12	
	/ (V/mA)	300 (5/5)	500 (12/10)	
Standard contact material	, . /	AgNi	AgNi	
Supply specification		5		
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-full range	%	± 5	± 5	
Electrical life at rated load in AC1	cycles	100·10 <sup>3</sup>	60·10 <sup>3</sup>	
Ambient temperature range	°C	-10+50	-10+50	
Protection category		IP 20	IP 20	
Approvals (according to type)		CE ERE 👁	RINA CU us	

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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		80.61	80.71	
b	petween input and output circuit	V AC	4,000		2,500	2,500
b	petween open contacts	V AC	1,000		1,000	-
Insulation (1.2/50 µs) between in	put and output	kV	6 4		4	
EMC specifications						
Type of test			Reference standard	80.01/11/2	1/41/61/71/91	80.82
Electrostatic discharge	contact discharge		EN 61000-4-2	4 kV		4 kV
	air discharge	air discharge		8 kV		8 kV
Radio-frequency electromagnetic	field (80 ÷ 1,000 MHz)		EN 61000-4-3	10 V/m		10 V/m
Fast transients (burst) (5-50 ns, 5 l	kHz) on Supply terminals		EN 61000-4-4	4 kV		4 kV
Surges (1.2/50 µs) on Supply ter	minals common mode	common mode		4 kV		4 kV
	differential mode		EN 61000-4-5	4 kV		4 kV
on start terminal (B1)	common mode		EN 61000-4-5	4 kV		4 kV
	differential mode	differential mode		4 kV		4 kV
Radio-frequency common mode ((	0.15 ÷ 80 MHz) on Supply termin	als	EN 61000-4-6	10 V		10 V
Radiated and conducted emission	1		EN 55022	class B		class A
Other data						
Current absorption on signal cont	rol (B1)		< 1 mA			
Power lost to the environment	without contact cu	rrent W	/ 1.4			
	with rated current	W	3.2			
🕀 Screw torque		Nm	0.8			
Max. wire size			solid cable stranded cable			
		mm <sup>2</sup>	1x6 / 2x4		1x4 / 2x2.5	
		AWG	1x10/2x12 1x12/2x14			

#### **Accessories**

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

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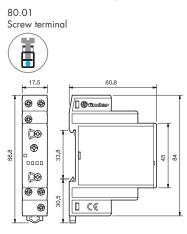
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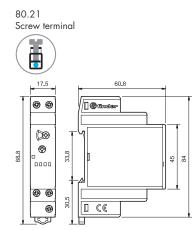
Sheet of marker tags, for types 80.01/11/21/41/61/71, plastic, 72 tags, 6x12 mm 060.72

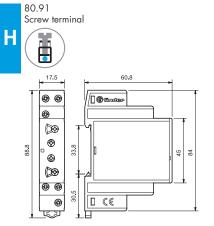
# 80 Series - Modular timers 1 - 6 - 8 - 16 A



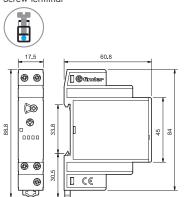
#### **Outline drawings**



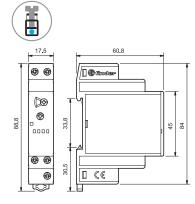




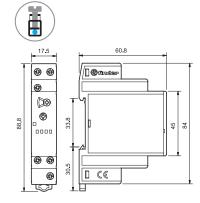
80.61 Screw terminal



80.11 Screw terminal



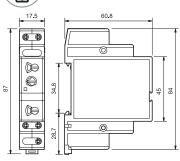




80.71 Screw terminal 60.8 17.5 • 0117000 •  $\bigcirc$ ٩ 88.8 33.8 45 84 0000 • 30.5 CE







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#### **Functions**

**U** = Supply voltage

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S = Signal switch
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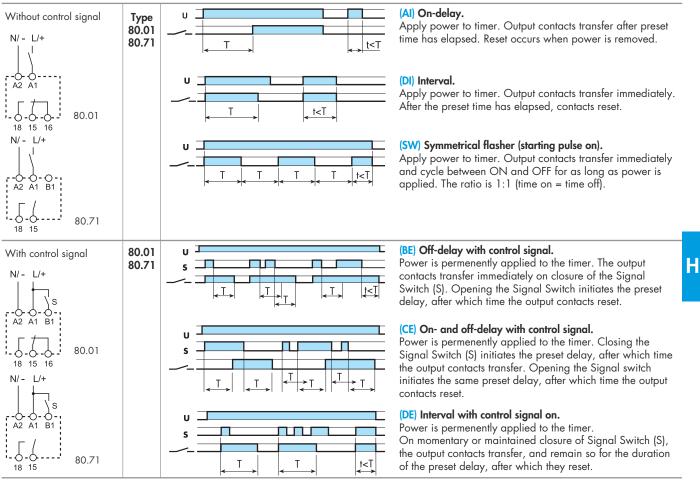
```
---- = Output contact
```

Wiring diagram

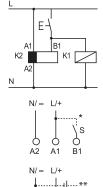
LED*	Supply voltage	NO output contact	Con Open	tacts Closed
	OFF	Open	15 - 18	15 - 16
	ON	Open	15 - 18	15 - 16
	ON	Open (Timing in Progress)	15 - 18	15 - 16
	ON	Closed	15 - 16	15 - 18

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.



0 0 A2 A1 \'s O B1

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

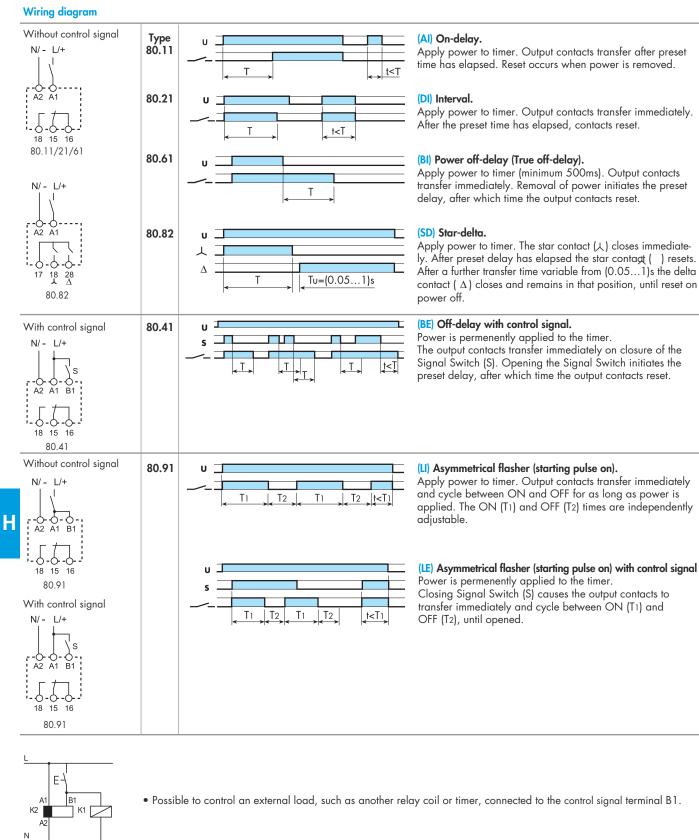
• Possible to control an external load, such as another relay coil or timer, connected to the control signal terminal B1.

\*\* 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

### 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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 H3CR-HRL AC100-120 M
 H3CR-A8-301 AC24-48/DC12-48
 H3CR-H8RL AC/DC24 S
 H7AN-2D DC12-24

 H5CN-XANS DC12-48
 H3CA-8 DC110
 H7AN-W4DM DC12-24
 H7AN-4DM DC12-24
 H7AN-RT6M AC100-240

 H3CA-8H AC200/220/240
 MTR17-BA-U240-116
 PM4HSDM-S-AC240VS
 PM4HSDM-S-AC240VSW
 PO-405
 600DT-CU
 H3Y-2-B DC24

 30S
 PM4HF8-M-DC24V
 PM4HS-H-DC12VSW
 H3Y-2-B AC100-120 10S
 H3Y-2-B AC100-120 30S
 H3C-R
 H3CR-A8-301 24-48AC/12 

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