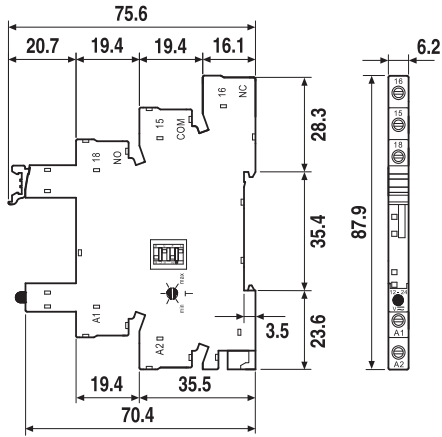


Features

Slim timed sockets for 34 series, 6.2 mm wide

- Multi-function timer
- AC and DC supply
- 4 time scales from 0.1 s to 6h
- LED indicator

93.21
Screw terminal

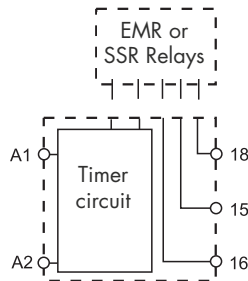


NEW 93.21



- Time scale: from 0.1 s to 6h
- Multi-function
- For use with 34.51 and 34.81 relays

AI: On-delay
DI: Interval
GI: Pulse (0.5 s) delayed
SW: Symmetrical flasher (starting pulse on)



Contact specification

Contact configuration	
Rated current/Maximum peak current	A
Rated voltage/Maximum switching voltage V AC	
Rated load AC1	VA
Rated load AC15 (230 V AC)	VA
Single phase motor rating (230 V AC)	kW
Breaking capacity DC1: 30/110/220 V	A
Minimum switching load	mW (V/mA)
Standard contact material	

See 34.51 and 34.81 relays

Supply specification

Nominal voltage (U _N)	V AC (50/60 Hz)	12...24
	V DC	12...24
Rated power AC/DC	VA/W	0.7/0.5
Operating range	V AC (50/60 Hz)	9.6...26.4
	DC	9.6...26.4

Technical data

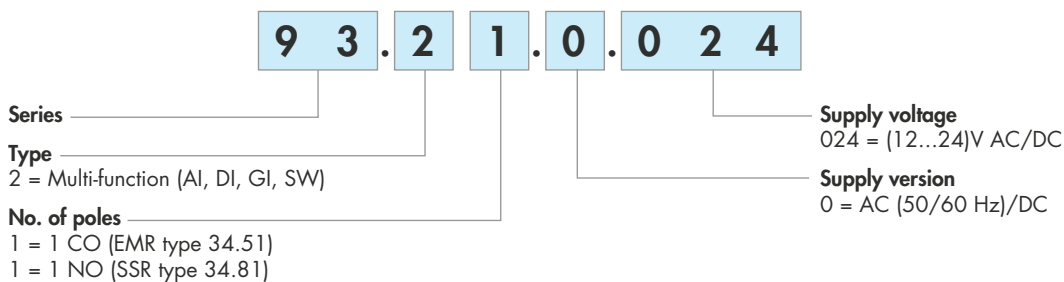
Specified time range		(0.1...3)s, (3...60)s, (1...20)min, (0.3...6)h
Repeatability	%	± 1
Recovery time	ms	≤ 50
Setting accuracy full range	%	± 5
Electrical life at rated load in AC1	cycles	See 34.51 (EMR) and 34.81 (SSR) relays
Ambient temperature range	°C	-40...+70 (EMR) / -40...+55 (SSR)
Protection category		IP 20

Approvals (according to type)



Ordering information

Example: type 93.21 multi-function timer module for 34 series relay, (12...24)V AC/DC supply voltage.



Combinations

Output	Supply voltage	Type of relay	Type of socket
1 pole 6A, electromechanical relay	12 V AC/DC	34.51.7.012.0010	93.21.0.024
1 pole 6A, electromechanical relay	24 V AC/DC	34.51.7.024.0010	93.21.0.024
1 output 2A 24 V DC, solid state relay	24 V AC/DC	34.81.7.024.9024	93.21.0.024
1 output 2A 240 V AC, solid state relay	24 V AC/DC	34.81.7.024.8240	93.21.0.024

Note: Although the timer socket covers both 12 and 24 volt supplies, it must be combined with the appropriate 12 V or 24 V relay; resulting in a combination suitable for just a single supply voltage.

Technical data

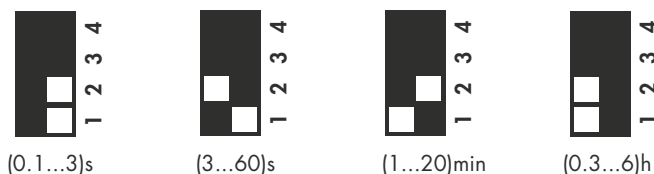
EMC specifications

Type of test	Reference standard
Electrostatic discharge	
contact discharge	EN 61000-4-2
air discharge	EN 61000-4-2
Radio-frequency electromagnetic field (80 ÷ 1000 MHz)	EN 61000-4-3
Fast transients (burst) (5-50 ns, 5 kHz) on Supply terminals	EN 61000-4-4
Surges (1.2/50 µs) on Supply terminals	
common mode	EN 61000-4-5
differential mode	EN 61000-4-5
Radio-frequency common mode (0.15 ÷ 80 MHz) on Supply terminals	EN 61000-4-6
Radiated and conducted emission	EN 55022
	class B

Other data

	EMR	SSR
Power lost to the environment		
without contact current	W 0.1	0.1
with rated current	W 0.6	0.5
Wire strip length	mm 10	
⊖ Screw torque	Nm 0.5	
Max. wire size		
	solid cable	stranded cable
	mm ² 1x2.5 / 2x1.5	1x2.5 / 2x1.5
	AWG 1x14 / 2x16	1x14 / 2x16

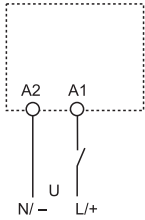
Times scales



Functions

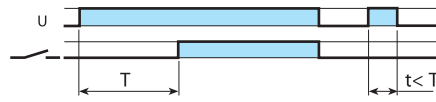
LED	Supply voltage	NO contact/output
	OFF	Open
	ON	Open (time in progress)
	ON	Closed

Wiring diagram



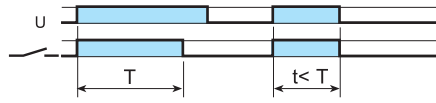
U = Supply voltage

= Output contact



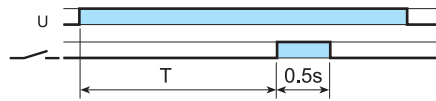
(AI) On-delay

Apply power to timer.
Output contacts transfer after preset time has elapsed.
Reset occurs when power is removed.



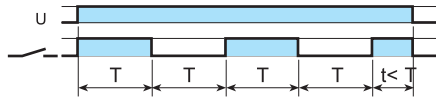
(DI) Interval

Apply power to timer.
Output contacts transfer immediately.
After the preset time has elapsed, contacts reset.



(GI) Pulse (0.5s) delayed

Apply power to timer.
Output contacts transfer after preset time has elapsed.
Reset occurs after a fixed time of 0.5s.

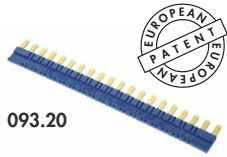


(SW) Symmetrical flasher (starting pulse on)

Apply power to timer.
Output contacts transfer immediately and cycle between ON and OFF for as long as power is applied.
The ratio is 1:1 (time on = time off).



Accessories

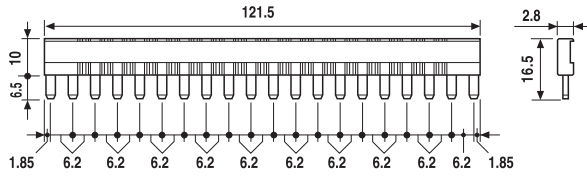


093.20

Approvals
(according to type):



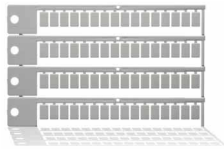
20-way jumper link	093.20 (blue)
Rated values	36 A - 250 V



093.01

Plastic separator	093.01
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Thickness 2 mm, required at the start and the end of a group of interfaces.
Can be used for visual separation group, must be used for:
- protective separation of different voltages of neighbouring PLC interfaces according to VDE 0106-101
- protection of cut jumper links



093.64

Sheet of marker tags, plastic, 64 tags, 6x10 mm	093.64
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