Features

Slim timed sockets for 34 series, 6.2 mm wide

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

93.21
Screw terminal

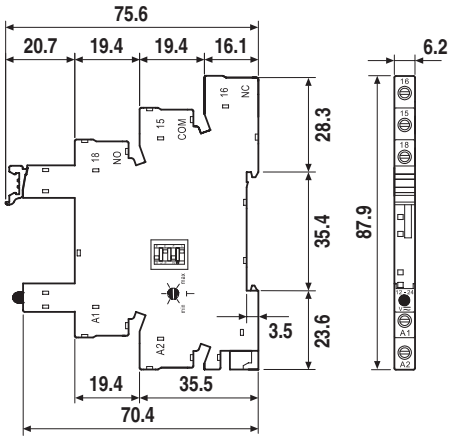


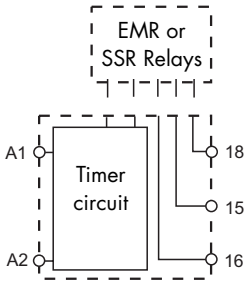
NEW **93.21**



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

AI: ON delay
DI: ON pulse
GI: Fixed pulse (0.5s) delayed
SW: Symmetrical recycling: ON start





Contact specification		
Contact configuration		See 34.51 and 34.81 relays
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		
Supply specification		
Nominal voltage (U_N)	V AC (50/60 Hz)	12...24
	V DC	12...24
Rated power AC/DC	W	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)		CE EAC cULus

Ordering information

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

9 3 . 2 1 . 0 . 0 2 4

Series

Type
2 = Multi-function (AI, DI, GI, SW)

No. of poles
1 = 1 CO (EMR type 34.51)
1 = 1 NO (SSR type 34.81)

Supply version
0 = AC (50/60 Hz)/DC

Supply voltage
024 = (12...24)V AC/DC

Combinations

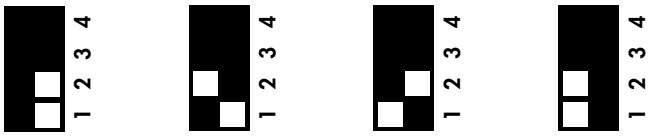
Output	Supply voltage	Type of relay	Type of socket
1 pole 6A, electromechanical relay	12 V AC/DC	34.51.7.012.0010	93.21.0.024
1 pole 6A, electromechanical relay	24 V AC/DC	34.51.7.024.0010	93.21.0.024
1 output 2A 24 V DC, solid state relay	24 V AC/DC	34.81.7.024.9024	93.21.0.024
1 output 2A 240 V AC, 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	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	2 kV
Surges (1.2/50 µs) on Supply terminals	common mode		EN 61000-4-5	2 kV
	differential mode		EN 61000-4-5	1 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			**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



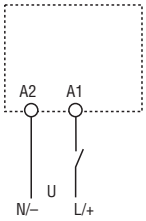
(0.1...3)s (3...60)s (1...20)min (0.3...6)h

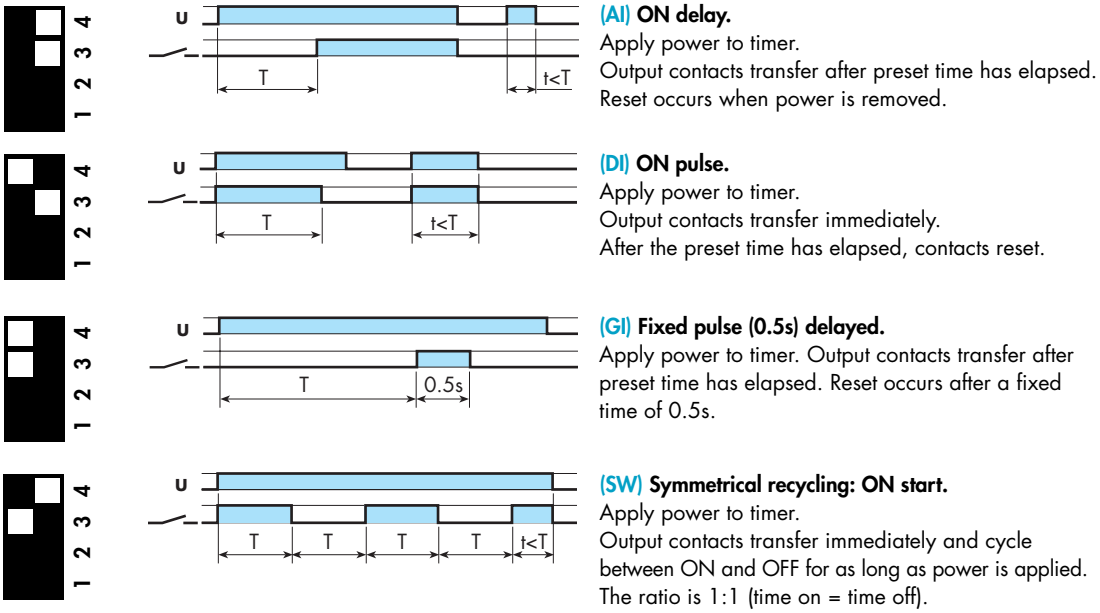
Functions

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

Wiring diagram

U = Supply voltage — = Output contact





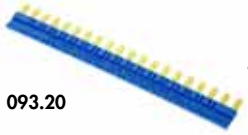
(AI) ON delay.
Apply power to timer.
Output contacts transfer after preset time has elapsed.
Reset occurs when power is removed.

(DI) ON pulse.
Apply power to timer.
Output contacts transfer immediately.
After the preset time has elapsed, contacts reset.

(GI) Fixed 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 recycling: ON start.
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).

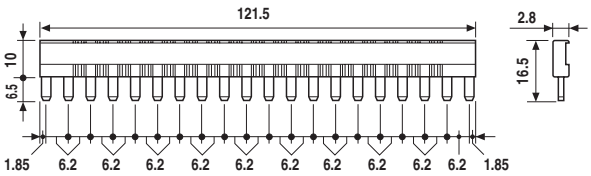
Accessories



093.20

Approvals
(according to type):

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

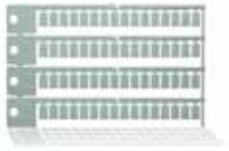




093.01

Plastic separator	093.01

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