93 SERIES Timed socket for 34 series



 Slim timed sockets for 34 series, 6.2 mm wide Timer adjustment via top mounted rotary knob accessible after assembly Control signal terminal DIP-switch for selection of 4 time scales and 8 functions Output with fuse module option EMR and SSR: 12 to 24 V AC/DC supply Screw terminal and push-in terminal 	
Screw terminal	 Time scale: from 0.1 s to 6 h Multi-function For use with 34.51 (EMR) and 34.81 (SSR) relays Screw terminal and push-in terminal Image: scale definition of the state of the sta
Contact configurationRated current/Maximum peak currentARated voltage/ Maximum switching voltageV ACRated load AC1VARated load AC15 (230 V AC)VASingle phase motor rating (230 V AC)kWBreaking capacity DC1: 30/110/220 VAMinimum switching loadmW (V/mA)Standard contact material	See 34.51 and 34.81 relays
Supply specificationNominal voltage (UN)V AC (50/60 Hz)/DCRated power AC/DCVA/WOperating rangeV AC (50/60 Hz)/DCTechnical dataSpecified time rangeRepeatability%Recovery timems	1224 See coils specifications page 2 9.626.4 (0.13)s, (360)s, (120)min, (0.36)h ± 1 ≤ 50 5 See 34.51 (EMR) and 34.81 (SSR) relays
Setting accuracy - full range % Electrical life at rated load in AC1 cycles Ambient temperature range °C Protection category Approvals (according to type)	-20+50 IP 20 C C C I II c Us

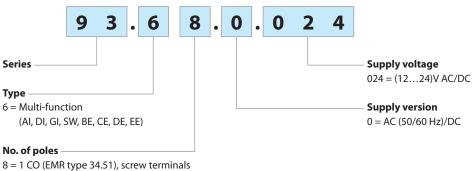
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Ordering information

Example: type 93.68 multi-function timer module for 34 series relay, screw terminals, (12...24)V AC/DC supply voltage.



8 = 1 NO (SSR type 34.81), screw terminals

9 = 1 CO (EMR type 34.51), push-in terminals

9 = 1 NO (SSR type 34.81), push-in terminals

Combinations

Output	Supply voltage	Type of relay	Type of socket, screw terminals
1 pole 6 A, electromechanical relay	12 V AC/DC	34.51.7.012.0010	93.68.0.024
1 pole 6 A, electromechanical relay	24 V AC/DC	34.51.7.024.0010	93.68.0.024
1 output 6 A/24 V DC, solid state relay	12 V AC/DC	34.81.7.012.9024	93.68.0.024
1 output 2 A/240 V AC, solid state relay	12 V AC/DC	34.81.7.012.8240	93.68.0.024
1 output 6 A/24 V DC, solid state relay	24 V AC/DC	34.81.7.024.9024	93.68.0.024
1 output 2 A/240 V AC, solid state relay	24 V AC/DC	34.81.7.024.8240	93.68.0.024
Output	Supply voltage	Type of relay	Type of socket, push-in terminals
1 pole 6 A, electromechanical relay	12 V AC/DC	34.51.7.012.0010	93.69.0.024
1 pole 6 A, electromechanical relay	24 V AC/DC	34.51.7.024.0010	93.69.0.024
1 output 6 A 24 V DC, solid state relay	12 V AC/DC	34.81.7.012.9024	93.69.0.024
1 output 2 A 240 V AC, solid state relay	12 V AC/DC	34.81.7.012.8240	93.69.0.024
1 output 6 A 24 V DC, solid state relay	24 V AC/DC	34.81.7.024.9024	93.69.0.024
1 output 2 A 240 V AC, solid state relay	24 V AC/DC	34.81.7.024.8240	93.69.0.024

Note: Although the timer socket covers both 12 and 24 V 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	
	(1400 ÷ 2700 MHz)	EN 61000-4-3	10 V/m	
Fast transients (burst) (5-50 ns, 5 and 100 kHz)	on Supply terminals	EN 61000-4-4	4 kV	
	on control signal terminals	EN 61000-4-4	4 kV	
Surges (1.2/50 µs) on supply and control	common mode	EN 61000-4-5	2 kV	
signal terminals	differential mode	EN 61000-4-5	0.8 kV	
Radio-frequency common mode (0.15 ÷ 80 MHz)	on Supply terminals	EN 61000-4-6	10 V	
	on control signal terminals	EN 61000-4-6	3 V	
Radiated and conducted emission		EN 55022 class B		
Other data				
Current absorption on signal control (B1) mA		< 1.7 (12 V) - < 3.5 (24 V)		
Bounce time (EMR) : NO/NC ms		1/6		
Vibration resistance (EMR, 1055 Hz): NO/NC g		10/5		
Power lost to the environment	without contact current W	0.3		
	with rated current W	0.8		
Terminals		Solid and stranded cable		
		Screw terminals	Push-in terminals	
Wire strip length	mm	10	8	
🕀 Screw torque	Nm	0.5	_	
Max. wire size mm ² AWG		1 x 2.5 / 2 x 1.5	1 x 2.5	
		1 x 14 / 2 x 16	1 x 14	
Min. wire size	mm ²	1 x 0.5	1 x 0.5	
	AWG		1 x 21	

Input specifications

Input data AC/DC timer

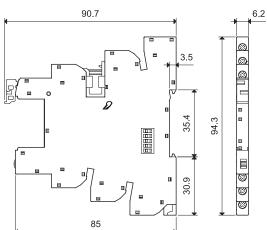
Nominal voltage	Operating range (AC/DC)		Must drop-out voltage	Rated input current at U _N		Rated power at $U_{\rm N}$	
U _N	U _{min}	U _{max}	Ur	DC	AC	DC	AC
V	V	V	V	mA	mA	mA	mA
12	9.6	13.2	1.2	15	23	0.2	0.3/0.2
24	19.2	26.4	2.4	11	19	0.25	0.4/0.3

Outline drawing

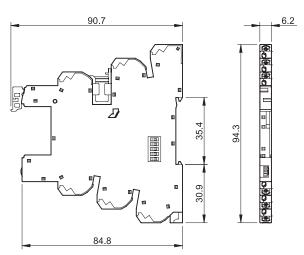
93.68 Screw terminals







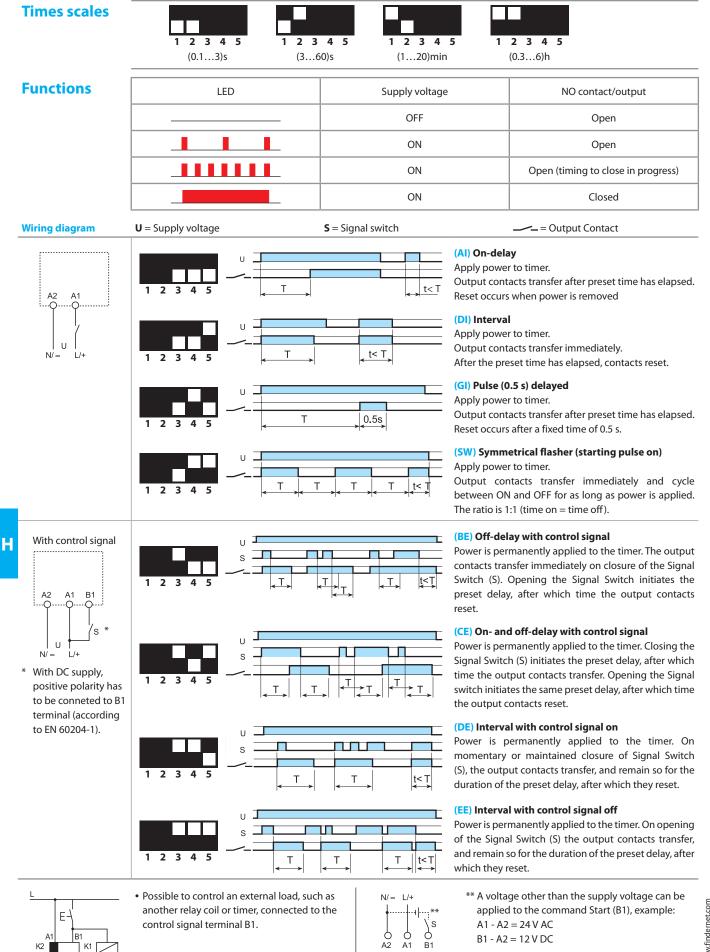




93 SERIES

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Accessories



(according to type):

093.63

Approvals

Output fuse module

- For 5 x 20 mm fuses up to 6 A, 250 V
- Easy visibility of the fuse condition through the window
- Quick connection to socket

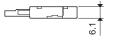
Notes

Safety: Because the output circuit can be reinstated, even with the fuse removed, it is important not to consider the removal of the fuse as a "safety disconnect". Always isolate elsewhere before working on the circuit. UL: According to UL508A, the fuse module cannot be installed in power circuits (in which it is mandatory that a fuse certified according to UL category JDDZ be fitted). However, where the MasterInterface is connected as an output interface to a PLC no such restrictions apply, and the fuse module can be usefully employed.

093.16 (blue)

6 A - 250 V





Rated values

(BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	16-way jumper link
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093.16

093.16.0

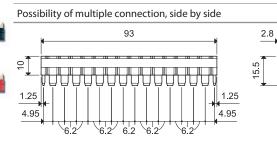
093.16.1

Approvals (according to type):



093.60





Dual-purpose plastic separator (1	8 mm or 6 2 mm senaration)
Dual-Durdose Diastic separator (1	.o mm or 0.2 mm separation)

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093.60

093.16.1 (red)

1. By breaking off the protruding ribs (by hand), the separator becomes only 1.8 mm thick; useful for the visual separation of different groups of interfaces, or necessary for the protective separation of different voltages of neighbouring interfaces, or for the protection of cut ends of jumper links.



2. Leaving the ribs in place provides 6.2 mm separation. Simply cutting (with scissors) the relevant segment(s) permits the interconnection across the separator of 2 different groups of interface relays, using the standard jumper link.



Sheet of marker tags, plastic, 48 tags, 6 x 12 mm, for CEMBRE thermal transfer printers

060.48

X-2017, www.findernet.com 060.48 🕀 finder

093.16.0 (black)

093.63



Accessories

93

SERIES



Terminal doubler (for socket Push-in only)		093.62
Total load		6 A - 300 V
		Solid and stranded cable
Max. wire size	$\rm mm^2$	2 x 1.5
	AWG	2 x 16

The MasterADAPTER permits the easy connection of A1/A2 terminals of up to MasterINTERFACE modules to PLC outputs via

093.68.14.1



Master**ADAPTER**

093.68.14.1 Approvals (according to type): CEEEEECCONS



Η

Connected Master**ADAPTER**

a 14-Pole ribbon cable, plus simple 2-wire power sup	oply connection.				
Technical data					
Rated current (per signal path)		А	1		
Minimum required supply power	inimum required supply power W		3		
Nominal voltage (U_N)	lominal voltage (U_N) V DC		24		
Operating range			(0.81.1)U _N		
Control logic			Positive switching (to A1)		
Power supply status indication			Green LED		
Ambient temperature range		°C	-40+70		
Terminals for 24 V control logic					
Type of connector			14 pole, according to IEC 60603-13		
Terminals for 24 V power supply					
Wire strip length	Wire strip length mm		9.5		
Screw torque		Nm	0.5		
Max. wire size					
	solid wire	mm ²	1 x 4 / 2 x 1.5		
		AWG	1 x 12 / 2 x 16		
	stranded wire	mm ²	1 x 2.5 / 2 x 1.5		
		AWG	1 x 14 / 2 x 16		