93 Series - Timed socket for 34 series



Features

Inder

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 tim 8 functions
- Output with fuse module optio

V AC (50/60 Hz)/DC

%

ms %

°C

cycles

Specified time range Repeatability

Setting accuracy - full range

Ambient temperature range

Approvals (according to type)

Protection category

Electrical life at rated load in AC1

Operating range **Technical data**

Recovery time

- EMR and SSR: 12 to 24 V AC
- Screw terminal and push-in ter





 Timer adjointent via top inconted totally 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 	
93.68 93.69 Screw terminal Push-in terminal	 Time scale: from 0.1s to 6h Multi-function For use with 34.51 (EMR) and 34.81 (SSR) relays Screw terminal and push-in terminal
For outline drawing see page 3	Al: On-delay Di: Interval B: Off-delay with control signal C: On- and off-delay with control signal D: Interval with control signal C: On- and off-delay with control signal D: Interval with control signal C: Interval with control signal on E: Interval with control signal on E: Interval with control signal off
Contact specification	
Contact configuration	
Rated current/Maximum peak current A	
Rated voltage/Maximum switching voltage V AC	
Rated load AC1 VA	Sec. 24.51 pr. 124.01 p. 1.
Rated load AC15 (230 V AC) VA	See 34.51 and 34.81 relays
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)/DC	1224
Rated power AC/DC VA/W	See coils specifications page 2
	Jee cons specifications page 2

9.6...26.4

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

± 1 ≤ 50

5

See 34.51 (EMR) and 34.81 (SSR) relays

-20...+50

IP 20

93.68/93.69

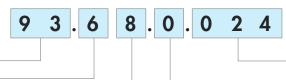
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Ordering information

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



Series Туре

6 = Multi-function (AI, DI, GI, SW, BE, CE, DE, EE)

No. of poles 8 = 1 CO (EMR type 34.51), screw terminals

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

Supply voltage 024 = (12...24)V AC/DC Supply version 0 = AC (50/60 Hz)/DC

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 2 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 2 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 2 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 2 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 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 ÷ 1,000 MHz)	EN 61000-4-3	10 V/m	
	(1,400 ÷ 2,700 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 (12V) - <3.5 (24V)		
Bounce time (EMR) : NO/NC	ms	1/6 10/5		
Vibration resistance (EMR, 1055 Hz): NO/NC	9			
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		10	8	
Grew torque	Nm	0.5		
Max. wire size	mm ²	1 x 2.5 / 2 x 1.5	1 x 2.5	
	AWG	1 x 14 / 2 x 16	1 x 14	
Min. wire size	^	1 x 0.2	1 x 0.2	
	AWG	1 x 24	1 x 24	



93 Series - Timed socket for 34 series

Input specifications

Input data AC/DC timer

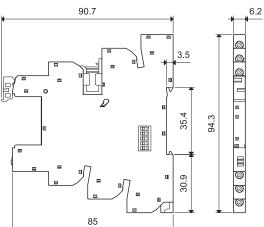
ſ	Nominal	Operating range (AC/DC)		Must drop-	Rated input		Rated power at U _N	
	voltage			out voltage	current at U _N			
	U _N	U _{min}	U _{max}	Ur	DC	AC	DC	AC
	V	V	V	V	mA	mA	W	VA / W
	12	9.6	13.2	1.2	15	23	0.2	0.3 / 0.2
	24	19.2	26.4	2.4	11	19	0.25	0.4 / 0.3

Outline drawings

93.68 Screw terminal

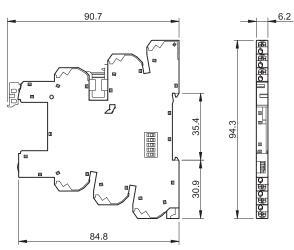






93.69 Push-in terminal





93 SERIES



	Times scales				
	Times scales			1 2 3 4 5	
			60)s (120)min	(0.36)h	
	Functions	LED	Supply voltage	NO contact/output Open	
			OFF		
			ON	Open	
			ON	Open (timing to close in progress)	
			ON	Closed	
	Wiring diagram	U = Supply voltage	S = Signal switch	= Output contact	
	A2 A1		Al) On-delay Apply power Output contact elapsed. Rese	to timer. :ts transfer after preset time has t occurs when power is removed.	
	U N/- L/+		Apply power Output contac	to timer. :ts transfer immediately. et time has elapsed, contacts reset.	
Timers and Monitoring relays			T T T t <t contact<br="" output="">between ON</t>	rical flasher (starting pulse on) to timer. ts transfer immediately and cycle and OFF for as long as power is applied. 1 (time on = time off).	
	A2 A1 B1 A2 A1 B1 , , , , , , , , , , , , , , , , , , ,		Power is perm T T t <t< td=""> t<t< td=""> t<t< td=""></t<></t<></t<>	with control signal nenently applied to the timer. The output fer immediately on closure of the Signal opening the Signal Switch initiates the after which time the output contacts reset.	
			Power is perm Signal Switch time the output	off-delay with control signal enenatly applied to the timer. Closing the (S) initiates the preset delay, after which it contacts transfer. Opening the Signal is the same preset delay, after which time tracts reset.	
			Power is perme or maintained contacts tran	vith control signal on enently applied to the timer. On momentary I closure of Signal Switch (S), the output sfer, and remain so for the duration delay, after which they reset.	
_			Power is perm	rith control signal off enently applied to the timer. On opening witch (S) the output contacts transfer, and or the duration of the preset delay, ey reset.	
• Possible to control an external load, such as another relay coil or timer, connected to the control signal terminal B1. • $N' - L' + $ M' - L' + M' - L' + M					

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93 Series - Accessories for 34 series relays

Accessories



093.63

Output fuse module

- Patent-pending solution for easy load protection 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





16-way jumper link	093.16 (blue)	093.16.0 (black)	093.16.1 (red)
Rated values	36 A - 250 V		
Possibility of multiple connection, side by side			
93 2.8			



093.16

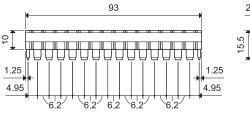
LEARER PRESERVE

093.16.1



093.60





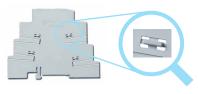
Dual-purpose plastic separator (1.8 mm or 6.2 mm separation)

093.60

093.63

93 SERIES

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 6.2mm 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, 72 tags, 6x12 mm

060.72

060.72

Timers and Monitoring relays