## Features

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


### 93.68

Screw terminal



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


Fuse module 093.63

See 34.51 and 34.81 relays
12... 24

See coils specifications page 2
9.6...26.4
$(0.1 \ldots 3) \mathrm{s},(3 \ldots 60) \mathrm{s},(1 \ldots 20) \mathrm{min},(0.3 \ldots 6) \mathrm{h}$
$\pm 1$
$\leq 50$
5
See 34.51 (EMR) and 34.81 (SSR) relays
$-20 \ldots+50$
IP 20


## Ordering information

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


8 = 1 CO (EMR type 34.51)
$8=1 \mathrm{NO}$ (SSR type 34.81)
Combinations

| Output | Supply voltage | Type of relay | Type of socket |
| :--- | :--- | :--- | :--- |
| 1 pole 6A, electromechanical relay | $12 \mathrm{~V} \mathrm{AC/DC}$ | 34.51 .7 .012 .0010 | 93.68 .0 .024 |
| 1 pole 6A, electromechanical relay | $24 \mathrm{~V} \mathrm{AC/DC}$ | 34.51 .7 .024 .0010 | 93.68 .0 .024 |
|  |  |  |  |
| 1 output 2 A 24 V DC, solid state relay | $12 \mathrm{~V} \mathrm{AC/DC}$ | 34.81 .7 .012 .9024 | 93.68 .0 .024 |
| 1 output 2 A 240 V AC, solid state relay | $12 \mathrm{~V} \mathrm{AC} / D C$ | 34.81 .7 .012 .8240 | 93.68 .0 .024 |
|  |  |  |  |
| 1 output 2A 24 V DC, solid state relay | $24 \mathrm{~V} \mathrm{AC/DC}$ | 34.81 .7 .024 .9024 | 93.68 .0 .024 |
| 1 output 2A 240 V AC, solid state relay | $24 \mathrm{~V} \mathrm{AC/DC}$ | 34.81 .7 .024 .8240 | 93.68 .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 | ( $80 \div 1,000 \mathrm{MHz}$ ) | EN 61000-4-3 | $10 \mathrm{~V} / \mathrm{m}$ |
|  | $(1,400 \div 2,700 \mathrm{MHz})$ | EN 61000-4-3 | $10 \mathrm{~V} / \mathrm{m}$ |
| Fast transients (burst) ( $5-50 \mathrm{~ns}, 5$ 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 $\mu$ s) on supply and control signal terminals | common mode | EN 61000-4-5 | 2 kV |
|  | differential mode | EN 61000-4-5 | 0.8 kV |
| Radio-frequency common mode ( $0.15 \div 80 \mathrm{MHz}$ ) | 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 |  |
| Vibration resistance (EMR, 10..55 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 |  |
| Wire strip length | mm | 10 |  |
| (73) Screw torque | Nm | 0.5 |  |
| Max. wire size | $\mathrm{mm}^{2}$ | $1 \times 2.5 / 2 \times 1.5$ |  |
|  | AWG | $1 \times 14 / 2 \times 16$ |  |
| Min. wire size | $\mathrm{mm}^{2}$ | $1 \times 0.2$ |  |
|  | AWG | $1 \times 24$ |  |

## Input specifications

Input data AC/DC timer

| Nominal voltage | Operating range (AC/DC) |  | Must dropout voltage $U_{r}$ | Rated input current at $U_{N}$ |  | Rated power at $U_{N}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $U_{N}$ | $U_{\text {min }}$ | $U_{\text {max }}$ |  | 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 | $0.4 / 0.3$ |

Times scales


Wiring diagram $\quad \mathbf{U}=$ Supply voltage $\quad \mathbf{S}=$ Signal switch $\quad$ Output contact


## Accessories


093.63

093.16 .0

093.16 .1

093.60


