



90.03

See page 90

| Module | Socket | Relay | Description                       | Mounting                             | Accessories                                                                                                                                                                     |
|--------|--------|-------|-----------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 99.02  | 90.02  | 60.12 | Screw terminal (Box clamp) socket | Panel or 35 mm rail (EN 50022) mount | <ul style="list-style-type: none"> <li>- Coil indication and EMC suppression modules</li> <li>- Jumper link</li> <li>- Timer modules</li> <li>- Metal retaining clip</li> </ul> |
|        | 90.03  | 60.13 | Double A1 terminal                |                                      |                                                                                                                                                                                 |



90.21

See page 91

| Module | Socket | Relay | Description                       | Mounting                             | Accessories                                                                                                                     |
|--------|--------|-------|-----------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 99.01  | 90.20  | 60.12 | Screw terminal (Box clamp) socket | Panel or 35 mm rail (EN 50022) mount | <ul style="list-style-type: none"> <li>- Coil indication and EMC suppression modules</li> <li>- Metal retaining clip</li> </ul> |
|        | 90.21  | 60.13 |                                   |                                      |                                                                                                                                 |



90.83.3

See page 92

| Module | Socket  | Relay | Description                       | Mounting                             | Accessories            |
|--------|---------|-------|-----------------------------------|--------------------------------------|------------------------|
| —      | 90.82.3 | 60.12 | Screw terminal (Box clamp) socket | Panel or 35 mm rail (EN 50022) mount | - Metal retaining clip |
| —      | 90.83.3 | 60.13 |                                   |                                      |                        |



90.23

See page 92

| Module | Socket | Relay | Description                       | Mounting                             | Accessories            |
|--------|--------|-------|-----------------------------------|--------------------------------------|------------------------|
| —      | 90.22  | 60.12 | Screw terminal (Box clamp) socket | Panel or 35 mm rail (EN 50022) mount | - Metal retaining clip |
| —      | 90.23  | 60.13 |                                   |                                      |                        |



90.26

See page 93

| Module | Socket | Relay | Description                         | Mounting                             | Accessories            |
|--------|--------|-------|-------------------------------------|--------------------------------------|------------------------|
| —      | 90.26  | 60.12 | Screw terminal (Plate clamp) socket | Panel or 35 mm rail (EN 50022) mount | - Metal retaining clip |
| —      | 90.27  | 60.13 |                                     |                                      |                        |



90.12

See page 93

| Module | Socket | Relay | Description                | Mounting        | Accessories |
|--------|--------|-------|----------------------------|-----------------|-------------|
| —      | 90.12  | 60.12 | Flange mount solder socket | M3 screw fixing | —           |
| —      | 90.13  | 60.13 |                            |                 |             |



90.15

See page 93

| Module | Socket  | Relay | Description | Mounting | Accessories |
|--------|---------|-------|-------------|----------|-------------|
| —      | 90.14   | 60.12 | PCB socket  | PCB      | —           |
| —      | 90.14.1 | 60.12 |             |          |             |
| —      | 90.15   | 60.13 |             |          |             |
| —      | 90.15.1 | 60.13 |             |          |             |



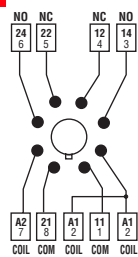
90.03

Approvals  
(according to type):

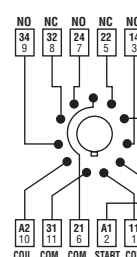
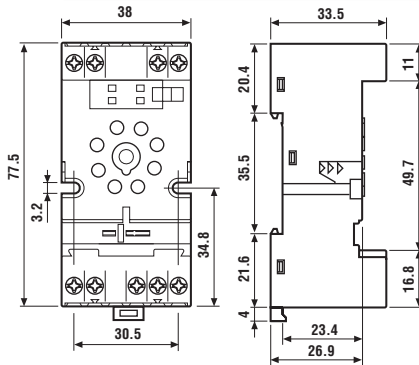


| Screw terminal (Box clamp) socket<br>panel or 35 mm rail (EN 50022) mount<br>For relay type | 90.02<br>Blue               | 90.02.0<br>Black | 90.03<br>Blue       | 90.03.0<br>Black |
|---------------------------------------------------------------------------------------------|-----------------------------|------------------|---------------------|------------------|
|                                                                                             | 60.12                       |                  | 60.13               |                  |
| <b>Accessories</b>                                                                          |                             |                  |                     |                  |
| Metal retaining clip                                                                        |                             |                  | 090.33              |                  |
| 6-way jumper link                                                                           |                             |                  | 090.06              |                  |
| Identification tag                                                                          |                             |                  | 090.00.2            |                  |
| Modules (see table below)                                                                   |                             |                  | 99.02               |                  |
| Timer modules (see table below)                                                             |                             |                  | 86.00, 86.10, 86.20 |                  |
| <b>Technical data</b>                                                                       |                             |                  |                     |                  |
| Rated values                                                                                | 10 A - 250 V                |                  |                     |                  |
| Dielectric strength                                                                         | ≥ 2 kV AC                   |                  |                     |                  |
| Protection category                                                                         | IP 20                       |                  |                     |                  |
| Ambient temperature                                                                         | °C -40...+70                |                  |                     |                  |
| ⊕ Screw torque                                                                              | Nm 0.6                      |                  |                     |                  |
| Wire strip length                                                                           | mm 10                       |                  |                     |                  |
| Max. wire size for 90.02 and 90.03 sockets                                                  | solid wire                  |                  | stranded wire       |                  |
|                                                                                             | mm <sup>2</sup> 1x6 / 2x2.5 |                  | 1x4 / 2x2.5         |                  |
|                                                                                             | AWG 1x10 / 2x14             |                  | 1x12 / 2x14         |                  |

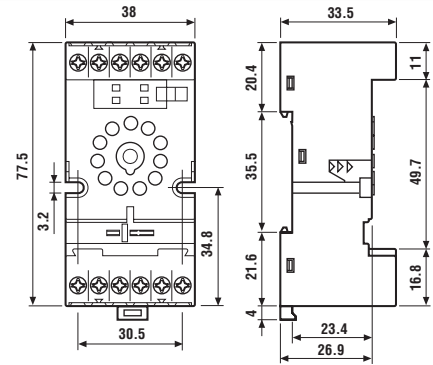
60



90.02



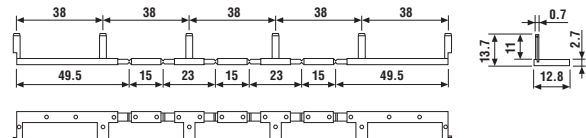
90.03



090.06

|                                                      |              |
|------------------------------------------------------|--------------|
| <b>6-way jumper link</b> for 90.02 and 90.03 sockets | 090.06       |
| Rated values                                         | 10 A - 250 V |

Approvals  
(according to type):



86.00

|                                                                       |                  |
|-----------------------------------------------------------------------|------------------|
| <b>86 series timer modules</b> (see technical data pages 181/182/187) |                  |
| Multi-voltage: (12...240)V AC/DC;                                     |                  |
| Multi-functions: AI, DI, SW, BE, CE, DE, EE, FE; (0.05 s...100 h)     | 86.00.0.240.0000 |
| Mono-function: (12...24)V AC/DC; function AI; (1.5 s...60 min)        | 86.10.0.024.0000 |
| Mono-function: (12...24)V AC/DC; function DI; (1.5 s...60 min)        | 86.20.0.024.0000 |

Approvals (according to type):



99.02

Approvals  
(according to type):



|                                                                                             |                    |                |
|---------------------------------------------------------------------------------------------|--------------------|----------------|
| <b>99.02 coil indication and EMC suppression modules</b> (see technical data pages 247/248) |                    | <b>Blue*</b>   |
| Diode (+A1, standard polarity)                                                              | (6...220)V DC      | 99.02.3.000.00 |
| Diode (+A2, non-standard polarity)                                                          | (6...220)V DC      | 99.02.2.000.00 |
| LED                                                                                         | (6...24)V DC/AC    | 99.02.0.024.59 |
| LED                                                                                         | (28...60)V DC/AC   | 99.02.0.060.59 |
| LED                                                                                         | (110...240)V DC/AC | 99.02.0.230.59 |
| LED + Diode (+A1, standard polarity)                                                        | (6...24)V DC       | 99.02.9.024.99 |
| LED + Diode (+A1, standard polarity)                                                        | (28...60)V DC      | 99.02.9.060.99 |
| LED + Diode (+A1, standard polarity)                                                        | (110...220)V DC    | 99.02.9.220.99 |
| LED + Diode (+A2, non-standard polarity)                                                    | (6...24)V DC       | 99.02.9.024.79 |
| LED + Diode (+A2, non-standard polarity)                                                    | (28...60)V DC      | 99.02.9.060.79 |
| LED + Diode (+A2, non-standard polarity)                                                    | (110...220)V DC    | 99.02.9.220.79 |
| LED + Varistor                                                                              | (6...24)V DC/AC    | 99.02.0.024.98 |
| LED + Varistor                                                                              | (28...60)V DC/AC   | 99.02.0.060.98 |
| LED + Varistor                                                                              | (110...240)V DC/AC | 99.02.0.230.98 |
| RC circuit                                                                                  | (6...24)V DC/AC    | 99.02.0.024.09 |
| RC circuit                                                                                  | (28...60)V DC/AC   | 99.02.0.060.09 |
| RC circuit                                                                                  | (110...240)V DC/AC | 99.02.0.230.09 |
| Residual current by-pass (62 kΩ/1W)                                                         | (110...240)V AC    | 99.02.8.230.07 |

\* Modules in Black housing are available on request.

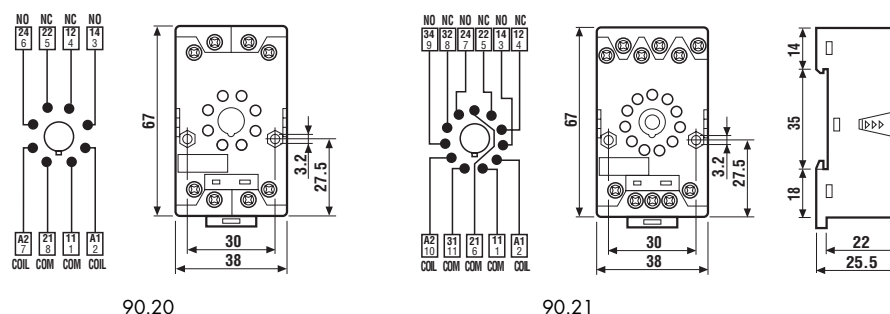


90.21

Approvals  
(according to type):



| Screw terminal (Box clamp) socket                                | 90.20                       | 90.20.0       | 90.21  | 90.21.0 |
|------------------------------------------------------------------|-----------------------------|---------------|--------|---------|
| panel or 35 mm rail (EN 50022) mount                             | Blue                        | Black         | Blue   | Black   |
| For relay type                                                   | 60.12                       |               | 60.13  |         |
| <b>Accessories</b>                                               |                             |               |        |         |
| Metal retaining clip (supplied with socket - packaging code SMA) |                             |               | 090.33 |         |
| Modules (see table below)                                        |                             |               | 99.01  |         |
| <b>Technical data</b>                                            |                             |               |        |         |
| Rated values                                                     | 10 A - 250 V                |               |        |         |
| Dielectric strength                                              | ≥ 2 kV AC                   |               |        |         |
| Protection category                                              | IP 20                       |               |        |         |
| Ambient temperature                                              | °C -40...+70                |               |        |         |
| Screw torque                                                     | Nm 0.5                      |               |        |         |
| Wire strip length                                                | mm 10                       |               |        |         |
| Max. wire size for 90.20 and 90.21 sockets                       | solid wire                  | stranded wire |        |         |
|                                                                  | mm <sup>2</sup> 1x6 / 2x2.5 | 1x6 / 2x2.5   |        |         |
|                                                                  | AWG 1x10 / 2x14             | 1x10 / 2x14   |        |         |



60



99.01

Approvals  
(according to type):



| 99.01 coil indication and EMC suppression modules for 90.20 and 90.21 sockets |                    |  | Blue*          |
|-------------------------------------------------------------------------------|--------------------|--|----------------|
| See technical data pages 247/248                                              |                    |  |                |
| Diode (+A1, standard polarity)                                                | (6...220)V DC      |  | 99.01.3.000.00 |
| Diode (+A2, non-standard polarity)                                            | (6...220)V DC      |  | 99.01.2.000.00 |
| LED                                                                           | (6...24)V DC/AC    |  | 99.01.0.024.59 |
| LED                                                                           | (28...60)V DC/AC   |  | 99.01.0.060.59 |
| LED                                                                           | (110...240)V DC/AC |  | 99.01.0.230.59 |
| LED + Diode (+A1, standard polarity)                                          | (6...24)V DC       |  | 99.01.9.024.99 |
| LED + Diode (+A1, standard polarity)                                          | (28...60)V DC      |  | 99.01.9.060.99 |
| LED + Diode (+A1, standard polarity)                                          | (110...220)V DC    |  | 99.01.9.220.99 |
| LED + Diode (+A2, non-standard polarity)                                      | (6...24)V DC       |  | 99.01.9.024.79 |
| LED + Diode (+A2, non-standard polarity)                                      | (28...60)V DC      |  | 99.01.9.060.79 |
| LED + Diode (+A2, non-standard polarity)                                      | (110...220)V DC    |  | 99.01.9.220.79 |
| LED + Varistor                                                                | (6...24)V DC/AC    |  | 99.01.0.024.98 |
| LED + Varistor                                                                | (28...60)V DC/AC   |  | 99.01.0.060.98 |
| LED + Varistor                                                                | (110...240)V DC/AC |  | 99.01.0.230.98 |
| RC circuit                                                                    | (6...24)V DC/AC    |  | 99.01.0.024.09 |
| RC circuit                                                                    | (28...60)V DC/AC   |  | 99.01.0.060.09 |
| RC circuit                                                                    | (110...240)V DC/AC |  | 99.01.0.230.09 |
| Residual current by-pass (62 kΩ/1W)                                           | (110...240)V AC    |  | 99.01.8.230.07 |

\* Modules in Black housing are available on request.

Green LED is standard.  
Red LED available on request.

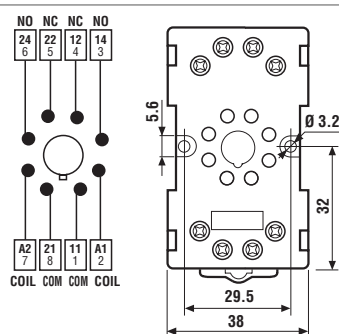


90.83.3

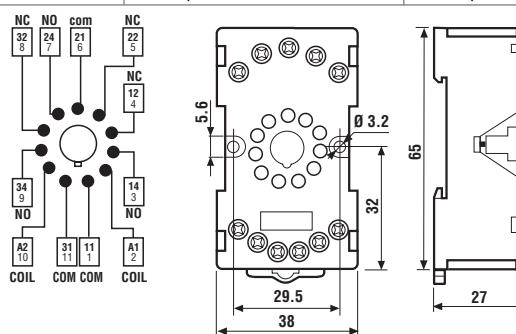
Approvals  
(according to type):



| Screw terminal (Box clamp) socket                                                              | 90.82.3      | 90.82.30    | 90.83.3 | 90.83.30      |
|------------------------------------------------------------------------------------------------|--------------|-------------|---------|---------------|
| panel or 35 mm rail (EN 50022) mount                                                           | Blue         | Black       | Blue    | Black         |
| For relay type                                                                                 | 60.12        |             | 60.13   |               |
| Accessories                                                                                    |              |             |         |               |
| Metal retaining clip                                                                           | 090.33       |             |         |               |
| Technical data                                                                                 |              |             |         |               |
| Rated values                                                                                   | 10 A - 250 V |             |         |               |
| Dielectric strength                                                                            | ≥ 2 kV AC    |             |         |               |
| Protection category                                                                            | IP 20        |             |         |               |
| Ambient temperature                                                                            | °C −40...+70 |             |         |               |
|  Screw torque | Nm           | 0.8         |         |               |
| Max. wire size for 90.82.3 and 90.83.3 sockets                                                 |              | solid wire  |         | stranded wire |
|                                                                                                | mm²          | 1x6 / 2x4   |         | 1x6 / 2x4     |
|                                                                                                | AWG          | 1x10 / 2x14 |         | 1x10 / 2x14   |



90.82.3



90.83.3

60

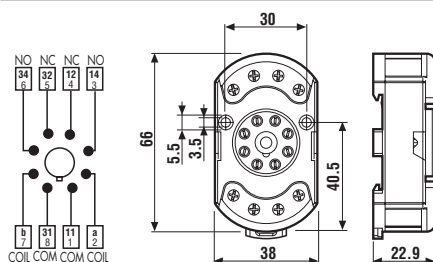


90.23

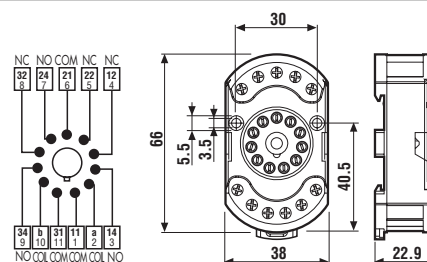
Approvals  
(according to type):



| Screw (Box clamp) terminal socket                                                                | 90.22 (blue) | 90.23 (blue)  |
|--------------------------------------------------------------------------------------------------|--------------|---------------|
| panel or 35 mm rail (EN 50022) mount                                                             |              |               |
| For relay type                                                                                   | 60.12        | 60.13         |
| Accessories                                                                                      |              |               |
| Metal retaining clip (supplied with socket - packaging code SMA)                                 | 090.33       |               |
| Technical data                                                                                   |              |               |
| Rated values                                                                                     | 10 A - 250 V |               |
| Dielectric strength                                                                              | ≥ 2 kV AC    |               |
| Protection category                                                                              | IP 20        |               |
| Ambient temperature                                                                              | °C -40...+70 |               |
|  Screw torque | Nm           | 0.5           |
| Wire strip length                                                                                | mm           | 7             |
| Max wire size for 90.22 and 90.23 sockets                                                        | solid wire   | stranded wire |
|                                                                                                  | mm²          | 1x6 / 2x2.5   |
|                                                                                                  | AWG          | 1x10 / 2x14   |



90.22



90.23

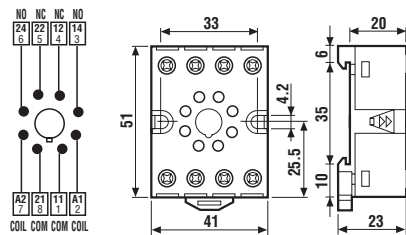


90.26

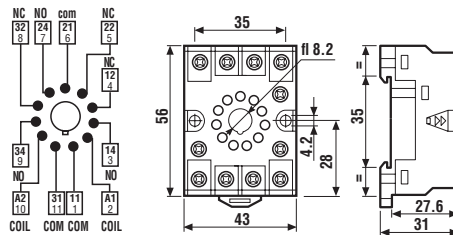
Approvals  
(according to type):



| Screw terminal (Plate clamp) socket                              | 90.26                       | 90.26.0 | 90.27         | 90.27.0 |
|------------------------------------------------------------------|-----------------------------|---------|---------------|---------|
| panel or 35 mm rail (EN 50022) mount                             | Blue                        | Black   | Blue          | Black   |
| For relay type                                                   | 60.12                       |         | 60.13         |         |
| <b>Accessories</b>                                               |                             |         |               |         |
| Metal retaining clip (supplied with socket - packaging code SMA) | 090.33                      |         |               |         |
| <b>Technical data</b>                                            |                             |         |               |         |
| Rated values                                                     | 10 A - 250 V                |         |               |         |
| Dielectric strength                                              | ≥ 2 kV AC                   |         |               |         |
| Protection category                                              | IP 20                       |         |               |         |
| Ambient temperature                                              | °C -40...+70                |         |               |         |
| ⊕ Screw torque                                                   | Nm 0.8                      |         |               |         |
| Wire strip length                                                | mm 10                       |         |               |         |
| Max. wire size for 90.26 and 90.27 sockets                       | solid wire                  |         | stranded wire |         |
|                                                                  | mm <sup>2</sup> 1x4 / 2x2.5 |         | 1x4 / 2x2.5   |         |
|                                                                  | AWG 1x12 / 2x14             |         | 1x12 / 2x14   |         |



90.26



90.27

60

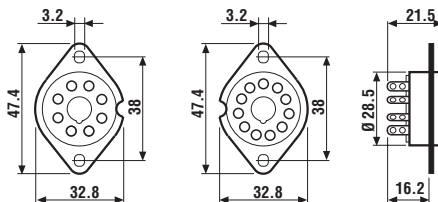


90.12

Approvals  
(according to type):



| Flange mount solder socket mount with M3 screw | 90.12 (black) | 90.13 (black) |
|------------------------------------------------|---------------|---------------|
| For relay type                                 | 60.12         | 60.13         |
| <b>Technical data</b>                          |               |               |
| Rated values                                   | 10 A - 250 V  |               |
| Dielectric strength                            | ≥ 2 kV AC     |               |
| Ambient temperature                            | °C -40...+70  |               |



90.12

90.13

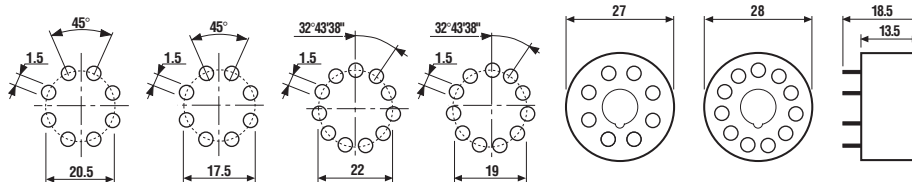


90.15

Approvals  
(according to type):



| PCB socket            | Blue         | 90.14              | 90.15            |
|-----------------------|--------------|--------------------|------------------|
|                       | Blue         | 90.14.1 (Ø 17.5mm) | 90.15.1 (Ø 19mm) |
| For relay type        |              | 60.12              | 60.13            |
| <b>Technical data</b> |              |                    |                  |
| Rated values          | 10 A - 250 V |                    |                  |
| Dielectric strength   | ≥ 2 kV AC    |                    |                  |
| Ambient temperature   | °C -40...+70 |                    |                  |



90.14

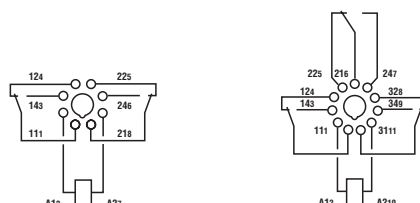
90.14.1

90.15

90.15.1

90.14

90.15



90.14

90.15

## Packaging code

How to code and identify retaining clip and packaging options for sockets.

Code options according to the last three letters:

