

# General purpose relays

## Round pin

- Lockable test button and mechanical flag
- 8 and 11 round pin plug-in versions
- Used with 90 series bases



Cat. No.

60.12...V AC RLY

60.12...V DC RLY



Cat. No.



60.13...V AC RLY

60.13...V DC RLY

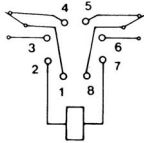
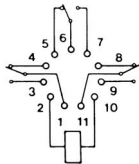
### Contact specifications

Contact configuration	2 C/O	3 C/O
Rated current	10 A	
Rated voltage	250 V AC	
Rated load in AC 1	2,500 VA	
Rated load in AC 15 (230 V AC)	500 VA	
Single phase motor rating (230 V AC)	0.37 kW	
Breaking capacity in DC 1 : 30/110/220 V	10/0.4/0.15 A	
Maximum peak current	20 A	
Maximum switching voltage	400 V AC	
Minimum switching load	500 mW	


### Coil specifications

Nominal voltage (U <sub>N</sub> )	(50/60 Hz) AC	6, 12, 24, 32, 48, 60  , 110, 240	6, 12, 24, 32, 48, 110, 240
	DC	6, 12, 24, 32, 48, 60  , 110	6, 12, 24, 32, 48, 110
Rated power AC/DC		2.2 VA/1.3 W	
Operation range	(50 Hz) AC	(0.8...1.1) U <sub>N</sub>	
	DC	(0.8...1.1) U <sub>N</sub>	
Holding voltage AC/DC		0.8 U <sub>N</sub> /0.5 U <sub>N</sub>	
Must drop-out voltage		0.2 U <sub>N</sub> /0.1 U <sub>N</sub>	

### Technical data











Mechanical life AC/DC	20.10 <sup>6</sup> /50.10 <sup>6</sup> cycles	
Electrical life @ rated load AC 1	200.10 <sup>3</sup> cycles	
Insulation between coil and contacts	3.6 kV	
Ambient temperature range	-40 °C...+70 °C	
Protection rating	IP 50	
Connection diagram		
Recommended bases	<b>90.20</b> DIN rail mount base with shrouded terminals <b>99.010...</b> Plug-in modules	<b>90.21</b> DIN rail mount base with shrouded terminals <b>99.010...</b> Plug-in modules

**Notes:** The equipment on this page is rated 230/400 V and is suitable for use on 240/415 V systems as per AS 60038:2000.

 Available on indent only.

## Relay bases and Accessories

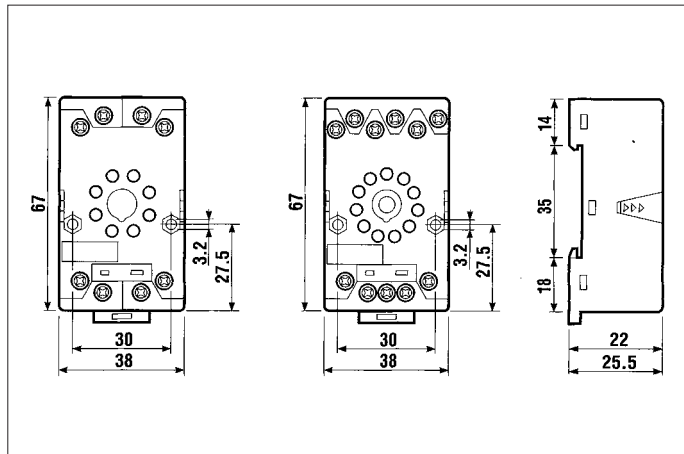
### Bases for series 60 round pin relays

			
<b>Cat. No.</b>	<b>90.20</b>	<b>90.21</b>	
<b>Description</b>	DIN rail mounting base shrouded terminals. Accepts 99-01 series LED modules.	DIN rail mounting base shrouded terminals. Accepts 99-01 series LED modules.	
<b>Relay to suit</b>	Round pin 2 C/O (8 pin) 60.12...	Round pin 3 C/O (11 pin) 60.13...	
<b>Retaining clip</b>	<b>90.33</b>	<b>90.33</b>	
			
<b>Cat. No.</b>	<b>90.28</b>	<b>90.27</b>	<b>90.03</b>
<b>Description</b>	DIN rail mounting base shrouded terminals.	DIN rail mounting base shrouded terminals.	DIN rail mounting base shrouded terminals.
<b>Relay to suit</b>	Round pin 2 C/O (8 pin) 60.12...	Round pin 3 C/O (11 pin) 60.13...	Accepts 60.13... (11 pin) relay and 86.00 series timing module.
<b>Retaining clip</b>	<b>90.33</b>	<b>90.33</b>	<b>90.33</b>
			
<b>Cat. No.</b>	<b>90.26</b>	<b>90.29</b>	<b>86.00</b>
<b>Description</b>	DIN rail mounting base shrouded terminals 8 pin	DIN rail mounting base shrouded terminals.	Multifunction, True multivoltage - 12- 240 V AC/DC Timing module. Suits 90-73 Base. Round pin 3 C/O
<b>Relay to suit</b>	Round pin 2 C/O (8 pin) 60.12...	Round pin 3 C/O (11 pin) 60.13...	(11 pin) and 60.13... relay
<b>Retaining clip</b>	<b>90.33</b>	<b>90.33</b>	<b>N/A</b>
			
<b>Cat. No.</b>	<b>90.12</b>	<b>90.13</b>	
<b>Description</b>	Rear connection solder socket.	Rear connection solder socket.	
<b>Relay to suit</b>	Round pin 2 C/O (8 pin) 60.12...	Round pin 3 C/O (11 pin) 60.13...	
<b>Retaining clip</b>	<b>N/A</b>	<b>N/A</b>	

## Relay base dimensions (mm)

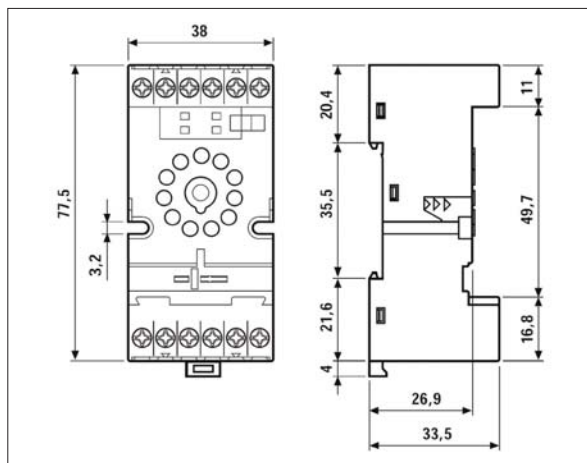
### 60 Series

Cat No. 90.20, 90.21



### 60 Series

Cat No. 90.03



## Relay dimensions (mm)

### 60 Series

Cat. No. 60.12, 60.13

