

**General purpose relays**  
**For printed circuit mounting**

**Type 55.12**

- 2 CO 10 A

**Type 55.13**

- 3 CO 10 A

**Type 55.14**

- 4 CO 7 A

- AC & DC coils
- Cadmium Free contacts
- Contact material options
- RT III (wash tight) option available



- 2 CO 10 A
- PCB mount



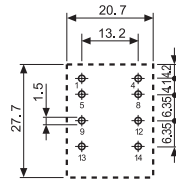
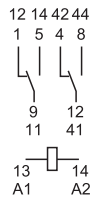
- 3 CO 10 A
- PCB mount



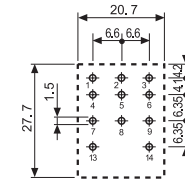
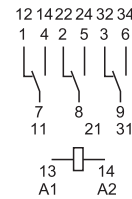
- 4 CO 7 A
- PCB mount

FOR UL RATINGS SEE:  
"General technical information" page V

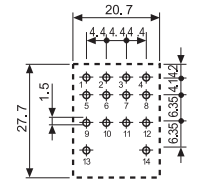
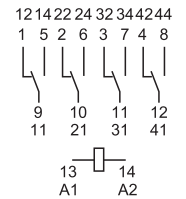
For outline drawing see page 6



Copper side view



Copper side view



Copper side view

**Contact specification**

Contact configuration		2 CO (DPDT)	3 CO (3PDT)	4 CO (4PDT)
Rated current/Maximum peak current	A	10/20	10/20	7/15
Rated voltage/ Maximum switching voltage	V AC	250/400	250/400	250/250
Rated load AC1	VA	2500	2500	1750
Rated load AC15 (230 V AC)	VA	500	500	350
Single phase motor rating (230 V AC)	kW	0.37	0.37	0.125
Breaking capacity DC1: 30/110/220 V	A	10/0.5/0.25	10/0.5/0.25	7/0.5/0.25
Minimum switching load	mW (V/mA)	300 (5/5)	300 (5/5)	300 (5/5)
Standard contact material		AgNi	AgNi	AgNi

**Coil specification**

Nominal voltage (U <sub>N</sub> )	V AC (50/60 Hz)	6 - 12 - 24 - 48 - 60 - 110 - 120 - 230 - 240		
	V DC	6 - 12 - 24 - 48 - 60 - 110 - 125 - 220		
Rated power AC/DC	VA (50 Hz)/W	1.5/1	1.5/1	1.5/1
Operating range	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	AC/DC	0.2 U <sub>N</sub> / 0.1 U <sub>N</sub>		

**Technical data**

Mechanical life AC/DC	cycles	20 · 10 <sup>6</sup> / 50 · 10 <sup>6</sup>	20 · 10 <sup>6</sup> / 50 · 10 <sup>6</sup>	20 · 10 <sup>6</sup> / 50 · 10 <sup>6</sup>
Electrical life at rated load AC1	cycles	200 · 10 <sup>3</sup>	200 · 10 <sup>3</sup>	150 · 10 <sup>3</sup>
Operate/release time	ms	10/5	9/5	9/5
Insulation between coil and contacts (1.2/50 μs)	kV	4	4	4
Dielectric strength between open contacts	V AC	1000	1000	1000
Ambient temperature range	°C	-40...+85	-40...+85	-40...+85
Environmental protection		RT I	RT I	RT I

**Approvals** (according to type)



**General purpose relays**

**For socket mounting**

**Type 55.32**

- 2 CO 10 A

**Type 55.33**

- 3 CO 10 A

**Type 55.34**

- 4 CO 7 A

- AC & DC coils
- Lockable test button and mechanical flag indicator as standard on 2 & 4 pole types
- Integral LED and coil suppression options
- 94 series sockets for PCB or 35 mm rail mounting (EN 60715) with Screw, Screwless or Push-in terminals
- Coil Indication and EMC suppression modules 99 series and Timer module 86.30 options
- Optional alternative mounting adaptors
- UL Listing (certain relay/socket combinations)
- Cadmium Free contacts
- Contact material options
- European Patent

FOR UL RATINGS SEE:

"General technical information" page V

For outline drawing see page 6

**Contact specification**

Contact configuration	2 CO (DPDT)	3 CO (3PDT)	4 CO (4PDT)
Rated current/Maximum peak current	A 10/20	10/20	7/15
Rated voltage/Maximum switching voltage	V AC 250/400	250/400	250/250
Rated load AC1	VA 2500	2500	1750
Rated load AC15 (230 V AC)	VA 500	500	350
Single phase motor rating (230 V AC)	kW 0.37	0.37	0.125
Breaking capacity DC1: 30/110/220 V	A 10/0.5/0.25	10/0.5/0.25	7/0.5/0.25
Minimum switching load	mW (V/mA) 300 (5/5)	300 (5/5)	300 (5/5)
Standard contact material	AgNi	AgNi	AgNi

**Coil specification**

Nominal voltage (U <sub>N</sub> )	V AC (50/60 Hz)	6 - 12 - 24 - 48 - 60 - 110 - 120 - 230 - 240		
	V DC	6 - 12 - 24 - 48 - 60 - 110 - 125 - 220		
Rated power AC/DC	VA (50 Hz)/W	1.5/1	1.5/1	1.5/1
Operating range	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	AC/DC	0.2 U <sub>N</sub> / 0.1 U <sub>N</sub>		

**Technical data**

Mechanical life AC/DC	cycles	20 · 10 <sup>6</sup> / 50 · 10 <sup>6</sup>	20 · 10 <sup>6</sup> / 50 · 10 <sup>6</sup>	20 · 10 <sup>6</sup> / 50 · 10 <sup>6</sup>
Electrical life at rated load AC1	cycles	200 · 10 <sup>3</sup>	200 · 10 <sup>3</sup>	150 · 10 <sup>3</sup>
Operate/release time	ms	10/5	9/5	9/5
Insulation between coil and contacts (1.2/50 μs)	kV	4	4	4
Dielectric strength between open contacts	V AC	1000	1000	1000
Ambient temperature range	°C	-40...+85	-40...+85	-40...+85
Environmental protection		RT I	RT I	RT I

**Approvals** (according to type)



55.32	55.33	55.34
<ul style="list-style-type: none"> <li>• 2 CO 10 A</li> <li>• Plug-in 94 series sockets</li> </ul>	<ul style="list-style-type: none"> <li>• 3 CO 10 A</li> <li>• Plug-in 94 series sockets</li> </ul>	<ul style="list-style-type: none"> <li>• 4 CO 7 A</li> <li>• Plug-in 94 series sockets</li> </ul>