

General purpose relays For printed circuit mounting		55.12	55.13	55.14
		<ul style="list-style-type: none"> • 2 CO 10 A • PCB mount 	<ul style="list-style-type: none"> • 3 CO 10 A • PCB mount 	<ul style="list-style-type: none"> • 4 CO 7 A • PCB mount
<p>Type 55.12 - 2 CO 10 A</p> <p>Type 55.13 - 3 CO 10 A</p> <p>Type 55.14 - 4 CO 7 A</p> <ul style="list-style-type: none"> • AC & DC coils • Cadmium Free contacts • Contact material options • RT III (wash tight) option available 				
<p>FOR UL RATINGS SEE: "General technical information" page V</p> <p>For outline drawing see page 6</p>		Copper side view	Copper side view	Copper side view
Contact specification				
Contact configuration		2 CO (DPDT)		4 CO (4PDT)
Rated current/Maximum peak current	A	10/20		7/15
Rated voltage/ Maximum switching voltage	V AC	250/400		250/250
Rated load AC1	VA	2500		1750
Rated load AC15 (230 V AC)	VA	500		350
Single phase motor rating (230 V AC)	kW	0.37		0.125
Breaking capacity DC1: 30/110/220 V	A	10/0.5/0.25		7/0.5/0.25
Minimum switching load	mW (V/mA)	300 (5/5)		300 (5/5)
Standard contact material		AgNi		AgNi
Coil specification				
Nominal voltage (U _N)	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
Operating range	AC	(0.8...1.1)U _N		(0.8...1.1)U _N
	DC	(0.8...1.1)U _N		(0.8...1.1)U _N
Holding voltage	AC/DC	0.8 U _N / 0.5 U _N		0.8 U _N / 0.5 U _N
Must drop-out voltage	AC/DC	0.2 U _N / 0.1 U _N		0.2 U _N / 0.1 U _N
Technical data				
Mechanical life AC/DC	cycles	20 · 10 ⁶ / 50 · 10 ⁶		20 · 10 ⁶ / 50 · 10 ⁶
Electrical life at rated load AC1	cycles	200 · 10 ³		150 · 10 ³
Operate/release time	ms	10/5		9/5
Insulation between coil and contacts (1.2/50 μs)	kV	4		4
Dielectric strength between open contacts	V AC	1000		1000
Ambient temperature range	°C	-40...+85		-40...+85
Environmental protection		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 _N)	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 _N		
	DC	(0.8...1.1)U _N		
Holding voltage	AC/DC	0.8 U _N / 0.5 U _N		
Must drop-out voltage	AC/DC	0.2 U _N / 0.1 U _N		

Technical data

Mechanical life AC/DC	cycles	20 · 10 ⁶ / 50 · 10 ⁶	20 · 10 ⁶ / 50 · 10 ⁶	20 · 10 ⁶ / 50 · 10 ⁶
Electrical life at rated load AC1	cycles	200 · 10 ³	200 · 10 ³	150 · 10 ³
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"> • 2 CO 10 A • Plug-in 94 series sockets 	<ul style="list-style-type: none"> • 3 CO 10 A • Plug-in 94 series sockets 	<ul style="list-style-type: none"> • 4 CO 7 A • Plug-in 94 series sockets