

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

55.12



- 2 CO 10 A
- PCB mount

55.13



- 3 CO 10 A
- PCB mount

55.14

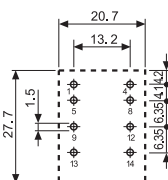
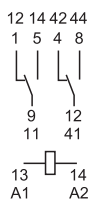


- 4 CO 7 A
- PCB mount

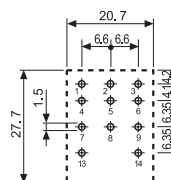
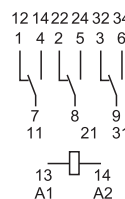
FOR UL RATINGS SEE:

"General technical information" page V

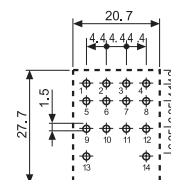
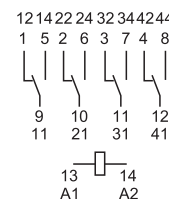
For outline drawing see page 6



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_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

$(0.8 \dots 1.1) U_N$

$(0.8 \dots 1.1) U_N$

$(0.8 \dots 1.1) U_N$

DC

$(0.8 \dots 1.1) U_N$

$(0.8 \dots 1.1) U_N$

$(0.8 \dots 1.1) U_N$

Holding voltage

AC/DC

$0.8 U_N / 0.5 U_N$

$0.8 U_N / 0.5 U_N$

$0.8 U_N / 0.5 U_N$

Must drop-out voltage

AC/DC

$0.2 U_N / 0.1 U_N$

$0.2 U_N / 0.1 U_N$

$0.2 U_N / 0.1 U_N$

Technical data

Mechanical life AC/DC

cycles

$20 \cdot 10^6 / 50 \cdot 10^6$

$20 \cdot 10^6 / 50 \cdot 10^6$

$20 \cdot 10^6 / 50 \cdot 10^6$

Electrical life at rated load AC1

cycles

$200 \cdot 10^3$

$200 \cdot 10^3$

$150 \cdot 10^3$

Operate/release time

ms

10/5

9/5

9/5

Insulation between coil
and contacts (1.2/50 μ s)

kV

4

4

4

Dielectric strength

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_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	$(0.8...1.1)U_N$	$(0.8...1.1)U_N$	$(0.8...1.1)U_N$
	DC	$(0.8...1.1)U_N$	$(0.8...1.1)U_N$	$(0.8...1.1)U_N$
Holding voltage	AC/DC	$0.8 U_N / 0.5 U_N$	$0.8 U_N / 0.5 U_N$	$0.8 U_N / 0.5 U_N$
Must drop-out voltage	AC/DC	$0.2 U_N / 0.1 U_N$	$0.2 U_N / 0.1 U_N$	$0.2 U_N / 0.1 U_N$

Technical data

Mechanical life AC/DC	cycles	$20 \cdot 10^6 / 50 \cdot 10^6$	$20 \cdot 10^6 / 50 \cdot 10^6$	$20 \cdot 10^6 / 50 \cdot 10^6$
Electrical life at rated load AC1	cycles	$200 \cdot 10^3$	$200 \cdot 10^3$	$150 \cdot 10^3$
Operate/release time	ms	10/5	9/5	9/5
Insulation between coil and contacts (1.2/50 μ s)	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)