

Features

Plug-in mount

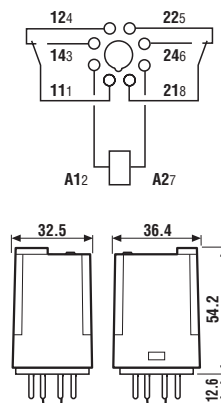
10 A General purpose relay

- 2 & 3 pole changeover contacts
- Cadmium Free contacts (preferred version)
- AC coils & DC coils
- UL Listed (certain relay/socket combinations)
- Contact material options
- Lockable test button with mechanical flag indicator (preferred version)
- 90 series sockets, coil EMC suppression and timer accessories

60.12



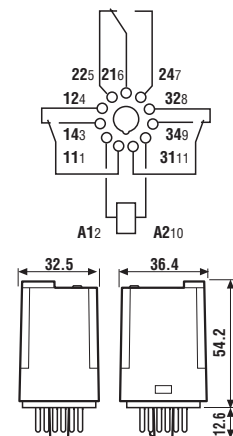
- 2 pole - 10 A power contacts
- 8 pin plug-in



60.13



- 3 pole - 10 A power contacts
- 11 pin plug-in



60

Contact specification

Contact configuration	2 CO (DPDT)	3 CO (3PDT)
Rated current/Maximum peak current A	10/20	10/20
Rated voltage/Maximum switching voltage V AC	250/400	250/400
Rated load AC1 VA	2,500	2,500
Rated load AC15 (230 V AC) VA	500	500
Single phase motor rating (230 V AC) kW	0.37	0.37
Breaking capacity DC1: 30/110/220 V A	10/0.4/0.15	10/0.4/0.15
Minimum switching load mW (V/mA)	500 (10/5)	500 (10/5)
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 - 400	
V DC	6 - 12 - 24 - 48 - 60 - 110 - 125 - 220	
Rated power AC/DC VA (50 Hz)/W	2.2/1.3	2.2/1.3
Operating range AC	$(0.8 \dots 1.1) U_N$	$(0.8 \dots 1.1) U_N$
DC	$(0.8 \dots 1.1) U_N$	$(0.8 \dots 1.1) U_N$
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	$20 \cdot 10^6 / 50 \cdot 10^6$	$20 \cdot 10^6 / 50 \cdot 10^6$
Electrical life at rated load AC1 cycles	$200 \cdot 10^3$	$200 \cdot 10^3$
Operate/release time ms	9/9	9/9
Insulation between coil and contacts (1.2/50 μ s) kV	3.6	3.6
Dielectric strength between open contacts V AC	1,000	1,000
Ambient temperature range $^{\circ}$ C	-40...+70	-40...+70
Environmental protection	RT I	RT I

Approvals (according to type)



Features

Plug-in mount - 6 A

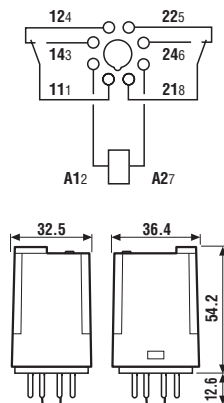
Bifurcated contacts for low level switching

- 2 & 3 pole changeover contacts
- Cadmium Free contacts (Gold plated Silver Nickel)
- AC coils & DC coils
- Lockable test button with mechanical flag indicator (preferred version)
- 90 series sockets, coil EMC suppression and timer accessories

60.12 - 0200



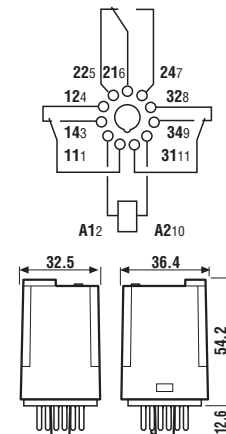
- 2 pole - 6 A bifurcated contacts
- 8 pin plug-in



60.13 - 0200



- 3 pole - 6 A bifurcated contacts
- 11 pin plug-in



Contact specification

Contact configuration		2 CO (DPDT)	3 CO (3PDT)
Rated current/Maximum peak current	A	6/10	6/10
Rated voltage/Maximum switching voltage	V AC	250/400	250/400
Rated load AC1	VA	1,500	1,500
Rated load AC15 (230 V AC)	VA	250	250
Single phase motor rating (230 V AC)	kW	0.185	0.185
Breaking capacity DC1: 30/110/220 V	A	6/0.3/0.12	6/0.3/0.12
Minimum switching load	mW (V/mA)	50 (5/5)	50 (5/5)
Standard contact material		AgNi + Au bifurcated contacts	AgNi + Au bifurcated contacts

Coil specification

Nominal voltage (U_N)	V AC (50/60 Hz)	6 - 12 - 24 - 48 - 60 - 110 - 120 - 230 - 240 - 400	
	V DC	6 - 12 - 24 - 48 - 60 - 110 - 125 - 220	
Rated power AC/DC	VA (50 Hz)/W	2.2/1.3	2.2/1.3
Operating range	AC	$(0.8 \dots 1.1) U_N$	$(0.8 \dots 1.1) U_N$
	DC	$(0.8 \dots 1.1) U_N$	$(0.8 \dots 1.1) U_N$
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	$20 \cdot 10^6 / 50 \cdot 10^6$	$20 \cdot 10^6 / 50 \cdot 10^6$
Electrical life at rated load AC1	cycles	$250 \cdot 10^3$	$250 \cdot 10^3$
Operate/release time	ms	9/9	9/9
Insulation between coil and contacts (1.2/50 μ s)	kV	3.6	3.6
Dielectric strength between open contacts	V AC	1,000	1,000
Ambient temperature range	°C	-40...+70	-40...+70
Environmental protection		RT I	RT I

Approvals (according to type)

