

Features

Flange mount

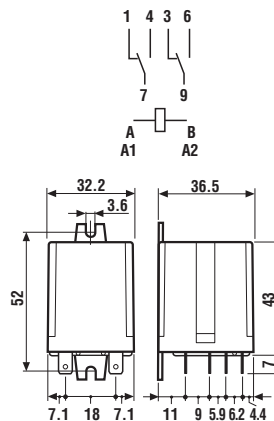
10 A General purpose relay

- Flange mount (Faston 187, 4.8x0.8 mm termination)
- 2 & 3 pole changeover contacts
- AC coils & DC coils
- Cadmium Free contacts (preferred version)
- Contacts material options

60.62



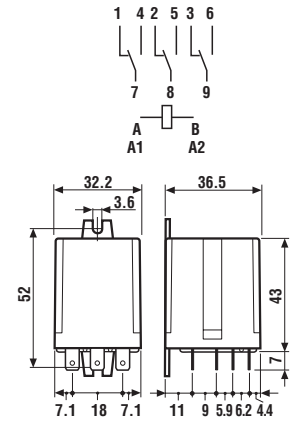
- 2 pole - 10 A power contacts
- Flange mount/Faston 187



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- 3 pole - 10 A power contacts
- Flange mount/Faston 187



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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	$(0.8...1.1)U_N$	$(0.8...1.1)U_N$
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	$20 \cdot 10^6/50 \cdot 10^6$	$20 \cdot 10^6/50 \cdot 10^6$
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)



Ordering information

Example: 60 series plug-in relay, 3 CO (3PDT), 12 V DC coil, test button and mechanical indicator.

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Series — 60

Type — 13

1 = 8/11 pin plug-in
6 = Faston 187 (4.8x0.8 mm)
with flange mount

No. of poles — 9

2 = 2 pole
3 = 3 pole

Coil version — 012

4 = Current sensing
8 = AC (50/60 Hz)
9 = DC

Coil voltage — 00

see coil specifications

A: Contact material

0 = Standard
2 = AgCdO
5 = AgNi + Au (5 µm)

B: Contact circuit

0 = CO (nPDT)
2 = Bifurcated contacts
60.12/13 - 6 A only

C: Options

0 = None
2 = Mechanical indicator
3 = LED (AC)
4 = Lockable test button +
mechanical indicator
5 = Lockable test button + LED (AC)
54 = Lockable test button + LED (AC) +
mechanical indicator
6 = LED + diode (DC, polarity positive
to pin 2)
7 = Lockable test button + LED + diode
(DC, polarity positive to pin 2)
74 = Lockable test button + LED + diode
(DC, polarity positive to pin 2) +
mechanical indicator

D: Special versions

0 = Standard

Selecting features and options: only combinations in the same row are possible.
Preferred selections for best availability are shown in **bold**.

Type	Coil version	A	B	C	D
60.12/13	AC	0 - 2	0	0 - 2 - 3 - 4 - 5	0
	AC	0 - 2	0	54	/
	AC	5	0 - 2	0 - 2 - 3 - 4 - 5	0
	AC	5	0 - 2	54	/
	DC	0 - 2	0	0 - 2 - 4 - 6 - 7	0
	DC	0 - 2	0	74	/
	DC	5	0 - 2	0 - 2 - 4 - 6 - 7	0
	DC	5	0 - 2	74	/
	current sensing	0	0	4	0
60.62/63	AC-DC	0 - 2 - 5	0	0	0

Descriptions: Options and Special versions

C: Option 3, 5, 54
LED (AC)

C: Option 6, 7, 74
LED + diode (DC, polarity
positive to pin 2)



Lockable test button and mechanical flag indicator (0040)

The dual-purpose Finder test button can be used in two ways:

Case 1) The plastic pip (located directly above the test button) remains intact. In this case, when the test button is pushed, the contacts operate. When the test button is released the contacts return to their former state.

Case 2) The plastic pip is broken-off (using an appropriate cutting tool). In this case, (in addition to the above function), when the test button is pushed and rotated, the contacts are latched in the operating state, and remain so until the test button is rotated back to its former position. In both cases ensure that the test button actuation is swift and decisive.