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12 A / 250 V AC

WT - standard plug-in version with indicating flag and manual testing/latching lever
Miniature size, cadmium - free contacts available, coil AC and DC

- Plug-in version 35 mm DIN rail mount, EN 50022 or on panel mounting
- For PCB and soldering connections option
- · General purpose relays
- Relays may be provided with the P type test buttons as well as plugs instead for T type buttons page 167

## Contacts

Contacts			
Contact number & arrangement	2C/O		
Contact material	<b>AgNi</b> , AgNi/Au 0,2 μm, AgNi/Au 5 μm		
Max. switching voltage AC/DC	250 V / 250 V		
Min. switching voltage	5 V		
Rated load AC1	12 A / 250 V AC 0 10 A / 250 V AC 2		
DC1	12 A / 24 V DC ① 10 A / 24 V DC ②		
Min. switching current	5 mA AgNi, 5 mA AgNi/Au 0,2 μm, 2 mA AgNi/Au 5 μm		
Max. inrush current	24 A		
Rated current	12 A <b>0</b> 10 A <b>2</b>		
Max. breaking capacity AC1	3 000 VA 0 2 500 VA @		
Min. breaking capacity	0,3 W AgNi, 0,3 W AgNi/Au 0,2 μm, 0,1 W AgNi/Au 5 μm		
Resistance	≤ 100 mΩ		
Max. operating frequency			
at rated load AC1	1 200 cycles/hour		
• no load	18 000 cycles/hour		
Coil			
Rated voltage 50/60 Hz AC	6240 V		
DC	5220 V		
Must release voltage	AC: $\geq$ 0,2 U <sub>n</sub> DC: $\geq$ 0,1 U <sub>n</sub>		
Operating range of supply voltage	see Table 1, 2		
Rated power consumption AC	1,6 VA		
DC	0,9 W		
Insulation			
Insulation category	C250		
Insulation rated voltage	250 V AC		
Dielectric strength	200 7 10		
• coil - contact	2 500 V AC		
• contact - contact	1 500 V AC		
• pole - pole	2 500 V AC		
Contact - coil distance			
clearance	≥ 2,5 mm		
• creepage	$\geq 4 \text{ mm}$		
General data			
Operating time (typical value)	AC: 10 ms DC: 13 ms		
Release time (typical value)	AC: 8 ms DC: 3 ms		
Electrical life			
resistive AC1	≥ 10 <sup>5</sup> 12 A, 250 V AC		
• COSØ	see Fig. 2		
Mechanical life (cycles)	$\geq 2 \times 10^7$		
Dimensions (L x W x H)	27,5 x 21,2 x 35,6 mm <b>0</b> 27,5 x 21,1 x 33,5 mm <b>2</b>		
	27,5 x 21,2 x 35,6 mm ♥ 27,5 x 21,1 x 33,5 mm ♥ 27,5 x 21,2 x 33 mm ♥		
Weight	35 g		
Ambient temperature			
storing	-40+85 °C		
• operating	AC: -40+55 °C DC: -40+70 °C		
Cover protection category	IP 40		
Shock resistance (NO/NC)			
Vibration resistance	5 g 10150 Hz		
Solder bath temperature Soldering time	max. 270 °C max. 5 s		

● WT - standard plug-in version ● PCB version ● Version with threaded bolt



### Coil data - DC voltage version

**R2** 

Coil code	Rated voltage V DC	Coil resistance (±10%) at 20 °C	Coil operating range V DC		
		Ω	min. (at 20 °C)	max. (at 55 °C)	
1005	5	28	4,0	5,5	
1006	6	40	4,8	6,6	
1012	12	160	9,6	13,2	
1024	24	640	19,2	26,4	
1048	48	2 600	38,4	52,8	
1060	60	4 000	48,0	66,0	
1080	80	7 100	64,0	88,0	
1110	110	13 600	88,0	121,0	
1125	125	16 000	100,0	137,5	
1220	220	54 000	176,0	242,0	

Standard coil rated voltages marked with bold type.

Coil data - AC 50/60 Hz voltage version

Coil resistance Coil operating range Rated voltage Coil code (±10%) at 20 °C V AC V AC Ω min. (at 20 °C) max. (at 55 °C) 5006 6 9,8 4,8 6,6 5012 12 39,5 9,6 13,2 5024 24 158,0 19,2 26,4 5042 42 470,0 33,6 46,2 5048 48 640,0 38,4 52,8 5060 60 930,0 48,0 66,0 5080 80 1 720,0 64,0 88,0 5110 3 450,0 88,0 121,0 110 5120 3 770,0 132,0 120 96,0 5127 127 4 000,0 101,6 139,0 220 15 400,0 176,0 5220 242,0 5230 230 16 100,0 184,0 253,0 16 800,0 5240 192,0 264,0 240

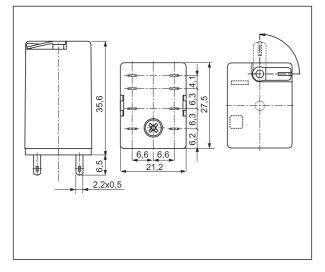
Standard coil rated voltages marked with bold type.

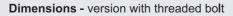
Peipol ® s.A.

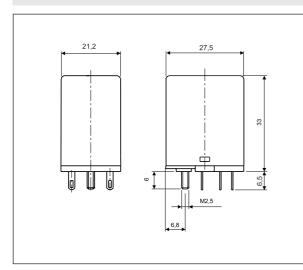
Table 2

# **Dimensions** - plug-in version (WT), with manual testing/latching lever type T

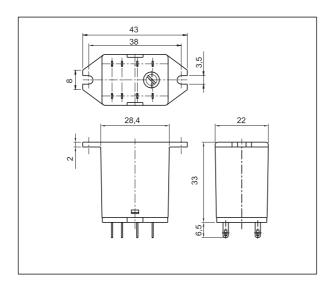
**R2** 



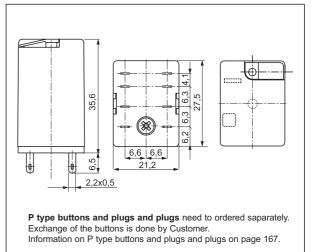




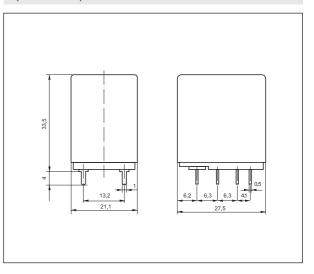
**Dimensions -** version with mounting flange (without WT)



**Dimensions -** plug-in version (WT), with P type buttons and plugs or plugs



**Dimensions -** PCB version (without WT)

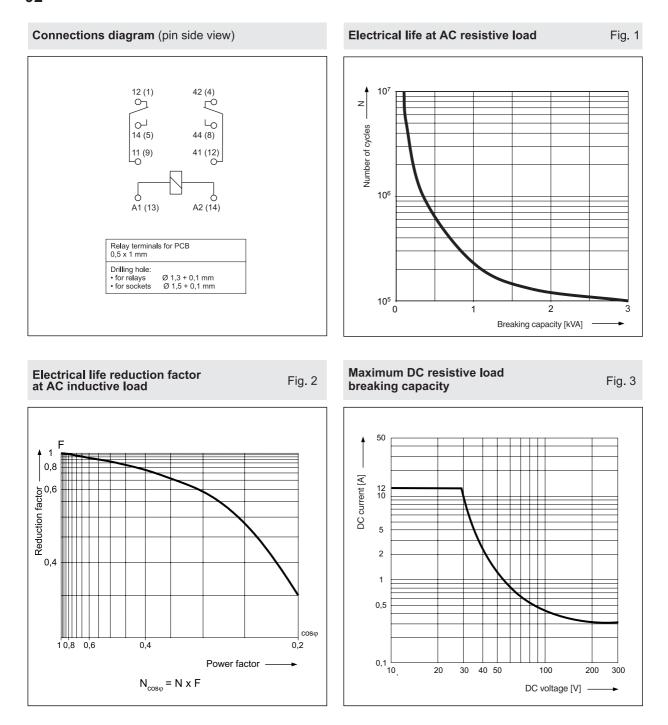


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## Mounting

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R2 relays are offered in versions: • standard, plug-in version with flag indicator and machanical latching (WT). Customer may exchange T type button with P type button (no latching) or with plug (no mechanical operation). P type buttons and plugs and plugs need to ordered saparately • for PCB (without WT) • with threaded bolt • with mounting flange (without WT).

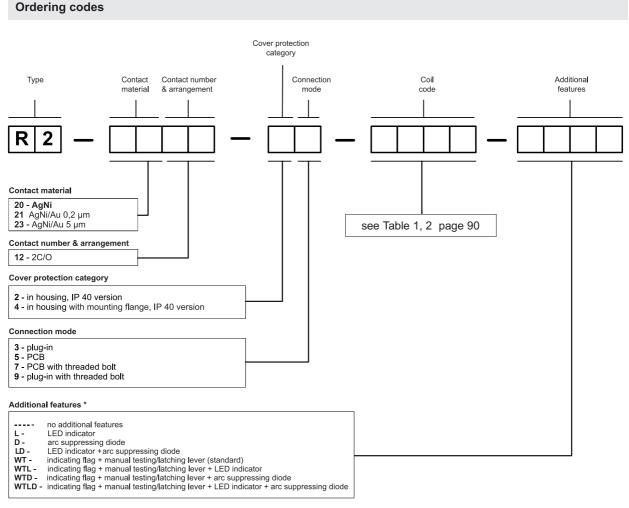
Relays **R2** are designed for: • screw terminals sockets **GZT2** and **GZM2** with clip **GZT4-0040** or **G4 1052**; screw terminals sockets **GZR2** with clip **G4 1052**, 35 mm DIN rail mount, EN 50022 or on panel mounting. **M...** type signalling and protection plug-in modules are available with sockets **GZT2** and **GZM2** (see page 170) • terminals sockets for PCB mounting **SU4/2D** with clip **G4 1053** (WT) or **G4 1050** (without WT) • solder terminals sockets **SU4/2L** with clip **G4 1053** (WT) or **G4 1050** (without WT) • solder terminals sockets **G4/2** with clip **G4 1053** (WT) or **G4 1050** (without WT) • direct PCB mounting.

**R2** 

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#### Contact material selection for different load types

- · AgNi for resistive or inductive loads,
- · AgNi/Au 0,2 µm contact surface protection against oxidation during storage,
- · AgNi/Au 5 µm for small resistive loads in control circuits.



\* WT - standard features plug-in power relays

D, LD, WTD, WTLD - only for DC coils

P type buttons and plugs and plugs ordered separately for substition of T type button by Customers themselves: • Button P R4 AC - orange (coils AC)

- Button P R4 DC green (coils DC)

Plug R4 AC - orange (coils AC)
Plug R4 DC - green (coils DC) Information on P type buttons and plugs and plugs on page 167.

#### Note:

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DC coil polarity for versions equipped with D (arc suppression diode) and L (LED) is fixed.

Terminal A1 (13) "+"; terminal A2 (14) "-".

Supply polarity is marked on relay housing.

Button color represents type of supply: orange for AC coil, green for DC coil.