

- General purpose relays
- Plug-in version 35 mm DIN rail mount, EN 50022
- Panel mounting faston connections
- Accessories: sockets
- WT flag indicator and mechanical latching option
- P type buttons and plugs (no latching) or plugs are available for relays equipped with WT - page 167

Contacts

Contact number & arrangement		2C/O
Contact material		AgCdO
Max. switching voltage	AC/DC	250 V / 250 V
Min. switching voltage		10 V
Rated load	AC1	12 A / 250 V AC
	DC1	12 A / 30 V DC
Min. switching current		10 mA
Max. inrush current		20 A
Rated current		12 A
Max. breaking capacity	AC1	3 000 VA
Min. breaking capacity		1 W
Resistance		≤ 100 mΩ
Max. operating frequency		
at rated load	AC1	1 200 cycles/hour
no load		18 000 cycles/hour
0 "		

Coil

Rated voltage	50/60 Hz AC	6240 V
	DC	5220 V
Must release voltage		$AC: \geq 0.2 U_n DC: \geq 0.1 U_n$
Operating range of supply voltage		see Table 1, 2
Rated power consumption	AC	1,6 VA
	DC	0,9 W

Insulation

Insulation category	B250
Insulation rated voltage	250 V AC
Dielectric strength	
coil - contact	2 500 V AC
contact - contact	1 000 V AC
• pole - pole	2 500 V AC
Contact - coil distance	
clearance	≥ 2,6 mm
creepage	≥ 4 mm

General data

Operating time (typical value)	15 ms	
Release time (typical value)	10 ms	
Electrical life		
resistive AC1	$\geq 10^5$ 12 A, 250 V AC	
$\cdot \cos \phi$	see Fig. 2	
Mechanical life (cycles)	≥ 10 ⁷	
Dimensions (L x W x H)	27,5 x 21,1 x 34,5 mm ① 27,5 x 21,1 x 37 mm ②	
Weight	35 g	
Ambient temperature		
• storing	-40+70 °C	
operating	-40+55 °C	
Cover protection category	IP 40	
Shock resistance	10 g	
Vibration resistance	5 g 15150 Hz	

Standard contact material marked with bolt type.

- Standard plug-in version (without WT)
- Plug-in version (WT)





Coil data - DC voltage version

Table 1

Coil code	Rated voltage V DC	Coil resistance ±10% at 20 °C	Coil operating range V DC	
	. 50	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

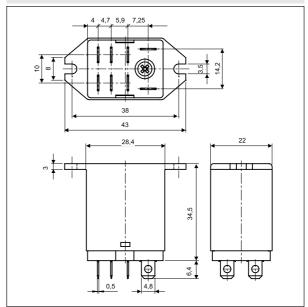
Coil data - AC 50/60 Hz voltage version

Table 2

Coil code	Rated voltage V AC	Coil resistance ±10% at 20 °C Ω	Coil operating range V AC	
			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	110	3 450,0	88,0	121,0
5120	120	3 770,0	96,0	132,0
5127	127	4 000,0	101,6	139,7
5220	220	15 400,0	176,0	242,0
5230	230	16 100,0	184,0	253,0
5240	240	16 800,0	192,0	264,0

Dimensions - plug-in standard version (without WT)

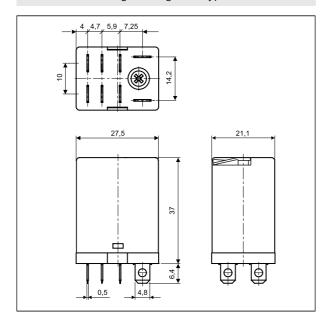
Dimensions - cover with mounting flange (without WT)



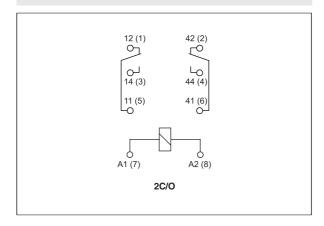




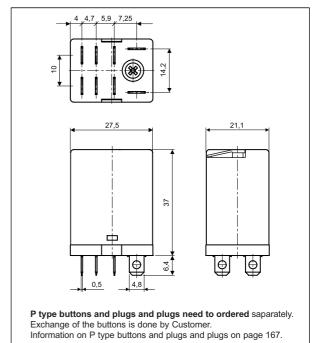
Dimensions - plug-in version (WT), with manual testing/latching lever type T



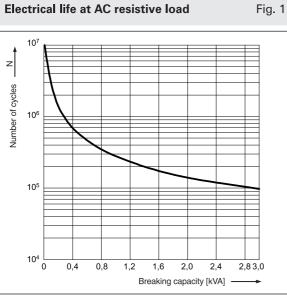
Connections diagram (pin side view)



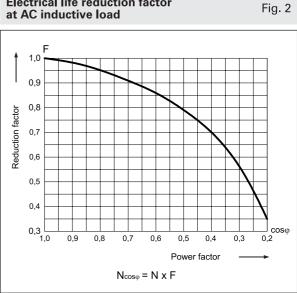
Dimensions - plug-in version (WT), with P type buttons and plugs or plugs



Electrical life at AC resistive load



Electrical life reduction factor



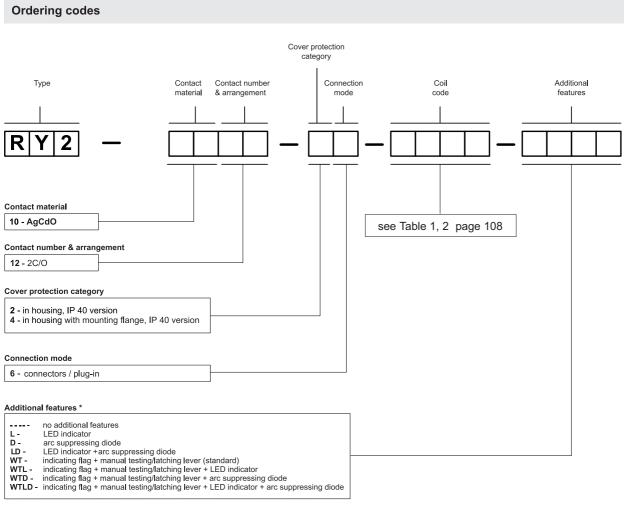


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Mounting

RY2 relays are offered in versions: • standard, plug-in version (without WT) • 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 • with mounting flange (without WT).

Relays RY2 are designed for: • screw terminals sockets GZY2 with clip GZY 2000, 35 mm DIN rail mount, EN 50022 or on panel mounting • faston connector.



- * 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.



