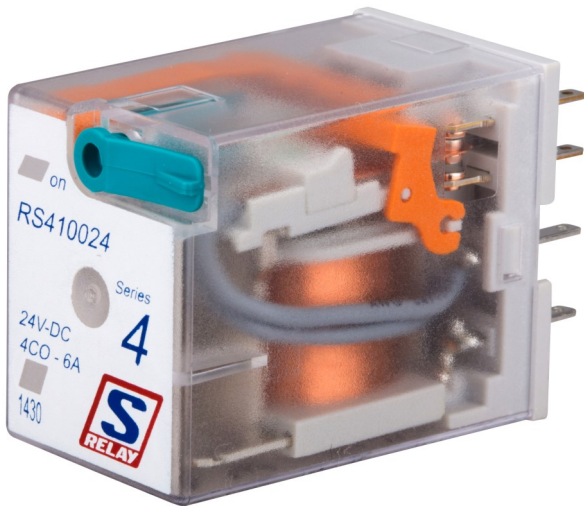


■ Datasheet: Plug-in relay, series 4, 4-pole, S-RELAY



■ SCHRACK-INFO

- Miniature industrial relays of general application
- For plug-in sockets, on panel mounting and PCB mounting (for PCB and soldering connections)
- Cadmium-free contacts
- AC and DC coils
- With mechanical indicator and lockable front test button
- Snap-on mounting for DIN rail EN 50022

■ Technical datas

Contact data

Number and type of contacts		4 CO
Contact material		AgNi
Rated/ max. switching voltage	AC	250 V / 250V
Min. switching voltage		10 V
Rated load (capacity)	AC1	6 A / 250 V AC
	AC15	1.5 A / 120 V AC, 0.75 A / 240 V (C300)
	AC3	125 W (single-phase motor)
	DC1	6 A / 24 V DC (see illustration below)
	DC13	0.22 A / 120 V; 0.1 A / 250 V (R300)
Min. switching current		5 mA
Max. inrush current		12A
Rated current		6A

Min. breaking capacity		0,3 W
Contact resistance		≤ 100 mΩ
Max. operating frequency		
• at rated load	AC1	1.200 cycles/hour
• no load		18.000 cycles/hour
Coil data		
Rated voltage	AC 50/60 Hz	6 V - 230 V
	DC	6 V - 220 V
Must release voltage		AC: ≥ 0,2 UN; DC: ≥ 0,1 UN
Operating range of supply voltage		see coil table below
Rated power consumption	AC	1,6 VA
	DC	0,9 W
Insulation according to PN-EN 60664-1		
Insulation class		B250
Insulation rated voltage		250 V AC
Rated surge voltage		2500 V; 1,2 / 50 μs
Overvoltage category		II
Insulation pollution degree		2
Dielectric strength		
• between coil and contacts		2500 V AC , type of insulation: basic
• contact clearance		1500 V AC , type of clearance: micro-disconnection
• pole - pole		2000 V AC , type of insulation: basic
Contact - coil distance		
• clearance		> 1.6 mm
• creepage		> 3.2 mm
General data		
Operating / release time (typical values)		AC: 10 ms / 8 ms; DC: 13 ms / 3 ms
Electrical life		
• resistive AC1		> 10 ⁵ ; 6 A 250 V AC
• cos phi		,
Mechanical life (cycles)		> 2 x 10 ⁷
Dimensions (L x W x H)		27.5 x 21.2 x 42.1 mm
Weight		35 g
Ambient temperature	storage	- 40 ... + 85° C
	operating	AC: -40 ... +55 °C; DC: -40°C ... +70 °C
Cover protection category		IP 40
Environmental protection		RTI
Shock resistance	(NO/NC)	10 g / 5 g
Vibration resistance		5 g; 10...150 Hz

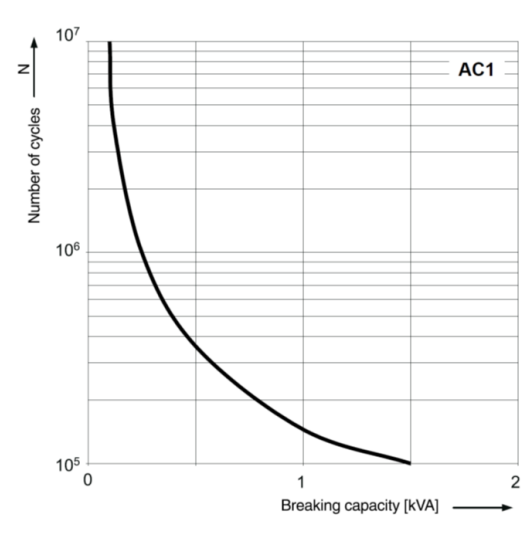
Coil data - DC voltage version

Coil code	Rated Voltage V DC	Coil resistance at 20 °C Ω	Acceptable	Coil operating range V DC	
				min. (bei 20 °C)	max. (bei 55 °C)
RS410006	6	40	± 10 %	4,8	6,6
RS410012	12	160	± 10 %	9,6	13,2
RS410024	24	640	± 10 %	19,2	26,4
RS410LC4	24	640	± 10 %	19,2	26,4
RS410048	48	2600	± 10 %	38,4	52,8
RS410060	60	4000	± 10 %	48	66
RS410110	110	13600	± 10 %	88	121
RS410MB0	110	13600	± 10 %	88	121
RS410220	220	54000	± 10 %	165	242
RS410N20	220	54000	± 10 %	176	242

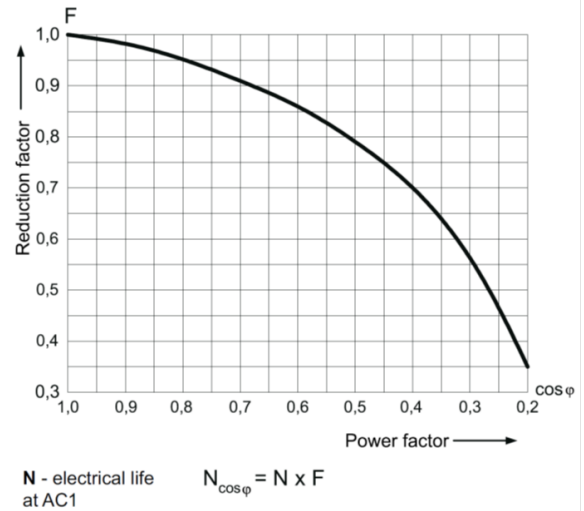
Coil data - AC 50/60Hz volatge version

Coil code	Rated Voltage V AC	Coil resistance at 20 °C Ω	Acceptable	Coil operating range V AC	
				min. (at 20 °C)	max. (at 55 °C)
RS410506	6	9,8	± 10 %	4,8	6,6
RS410512	12	39,5	± 10 %	9,6	13,2
RS410524	24	158	± 10 %	19,2	26,4
RS410R24	24	158	± 10 %	19,2	26,4
RS410548	48	640	± 10 %	38,4	52,8
RS410615	115	3610	± 10 %	92	127
RS410S15	115	3610	± 10 %	92	127
RS410730	230	16100	± 10 %	184	253
RS410T30	230	16100	± 10 %	184	253

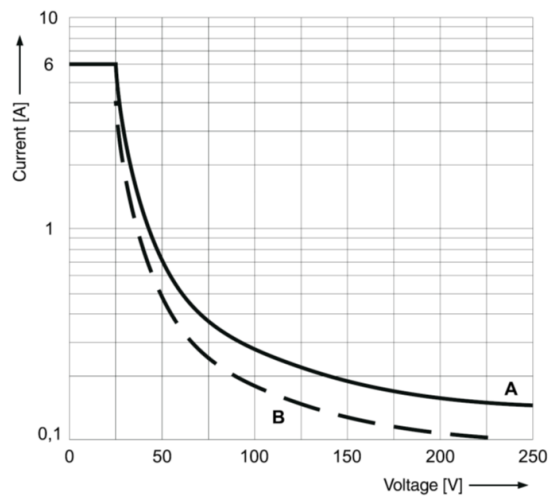
- Electrical life at AC resistive load.
Switching frequency: 1.200 cycles/hour



- Electrical life reduction factor at AC inductive load

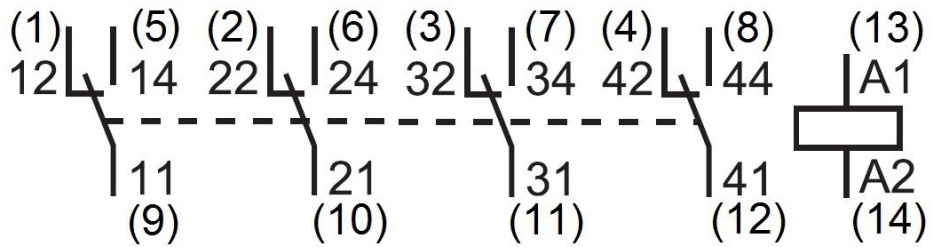


- Max. DC breaking capacity

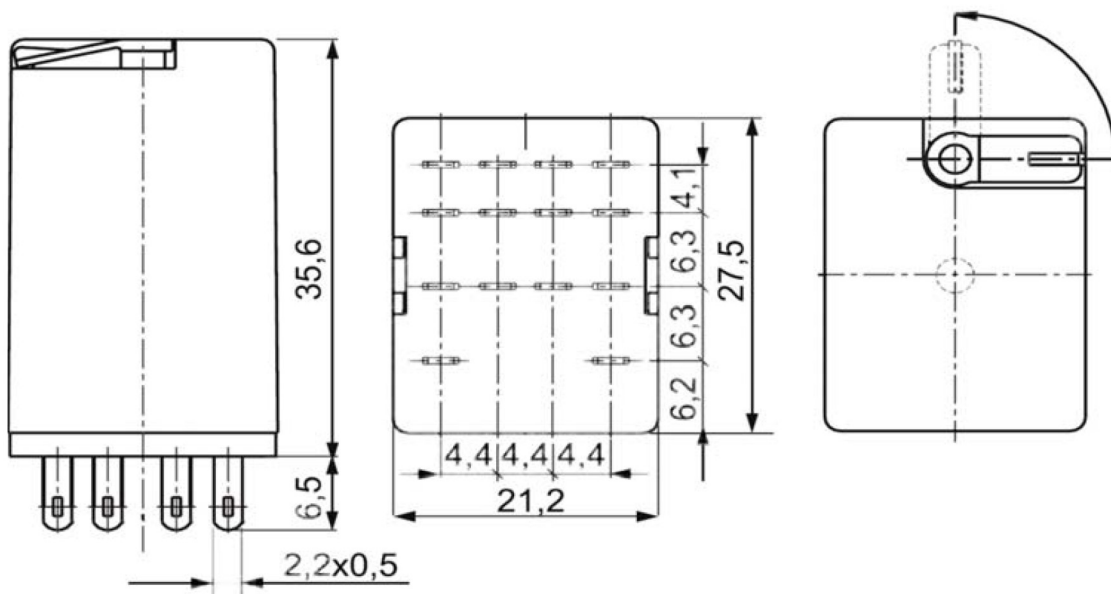


- A - resistive load DC1
- B - inductive load L/R = 40 ms

Connection diagram



Dimensions



Articles

Description	Articlenumber
Plug-in Relay 14 pin 4 C/O 6VDC 6A	RS410006--
Plug-in Relay 14 pin 4 C/O 12VDC 6A	RS410012--
Plug-in Relay 14 pin 4 C/O 24VDC 6A	RS410024--
Plug-in Relay 14 pin 4 C/O 24VDC 6A with LED and protective diode	RS410LC4--
Plug-in Relay 14 pin 4 C/O 48VDC 6A	RS410048--
Plug-in Relay 14 pin 4 C/O 60VDC 6A	RS410060--
Plug-in Relay 14 pin 4 C/O 110VDC 6A	RS410110--
Plug-in Relay 14 pin 4 C/O 110VDC 6A with LED and protective diode	RS410MB0--
Plug-in Relay 14 pin 4 C/O 220VDC 6A	RS410220--
Plug-in Relay 14 pin 4 C/O 220VDC 6A with bipolar LED	RS410N20--
Plug-in Relay 14 pin 4 C/O 6VAC 6A	RS410506--
Plug-in Relay 14 pin 4 C/O 12VAC 6A	RS410512--
Plug-in Relay 14 pin 4 C/O 24VAC 6A	RS410524--
Plug-in Relay 14 pin 4 C/O 24VAC 6A with LED	RS410R24--
Plug-in Relay 14 pin 4C/O 48VAC 6A	RS410548--
Plug-in Relay 14 pin 4C/O 115VAC 6A	RS410615--
Plug-in Relay 14 pin 4 C/O 115VAC 6A with LED	RS410S15--
Plug-in Relay 14 pin 4 C/O 230AC 6A	RS410730--
Plug-in Relay 14 pin 4 C/O 230VAC 6A with LED	RS410T30--