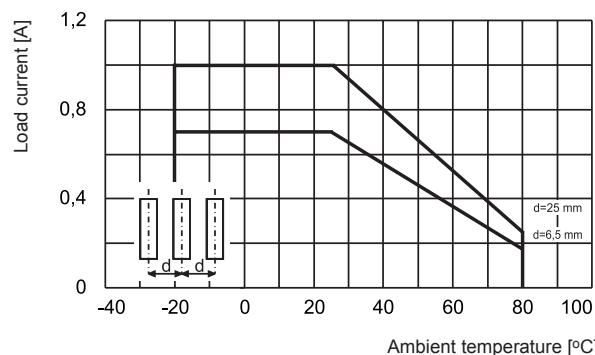


AC Load
- 1 A / 240 V

- Optically isolated
- Ultra slim and light weight, SIL terminals type for high density mounting
- Low on-state resistance • Low input power consumption
- TTL and CMOS compatible
- RC networks (V AC)
- MOSFET output thyristor (V DC)
- Recognitions, certificates, directives: RoHS,

Type of relay ① ②	D05-A1-24-010-1-O	D12-A1-24-010-1-O	D24-A1-24-010-1-O
Input circuit			
Nominal voltage	5 V DC	12 V DC	24 V DC
Control voltage range	3...10 V DC	7...20 V DC	18...32 V DC
Max. control current	12 mA	10 mA	7,7 mA
Release voltage	1,0 V DC	1,0 V DC	1,0 V DC
Input resistance	320 Ω	1,07 kΩ	3,0 kΩ
Output circuit			
Nominal load current		0,4 AAC see Fig.	
Max. load current		1 AAC see Fig.	
Nominal load voltage		rest condition: 240 V AC	
Load voltage range		24...265 V AC	
Non-repetitive peak voltage		rest condition: 600 V AC	
Non-repetitive surge current		operating state: 50 A	
Max. off-state leakage current		rest condition: 2 mA	
Max. on-state voltage drop		operating state: 1,5 V	
Min. load current		operating state: 50 mA	
General data			
Output circuit switching moment	R ④		
Max. turn-on time	1 ms ⑤		
Max. turn-off time	1/2 cycle + 1 ms ⑥		
Min. insulation resistance	between input and output: 1 000 MΩ 500 V DC		
Insulation dielectric strength	between input and output: 2 500 V AC 1 minute		
Dimensions (L x W x H)	20 x 5 x 17 mm		
Weight	3 g		
Storage temperature	-40...+100 °C		
Operating temperature	-30...+85 °C rated value: +55 °C see Fig.		
Max. solder bath temperature	220 °C 10 s		

Load current in the function of the ambient temperature and distances between relays
Dimensions, mounting openings raster, ordering codes - see page 17


- ① The data in bold type pertain to the standard versions of the relays.
 ② Basic technical data at 20 °C
 ③ R - instantaneous switching of the output circuit
 ④ At rated voltage

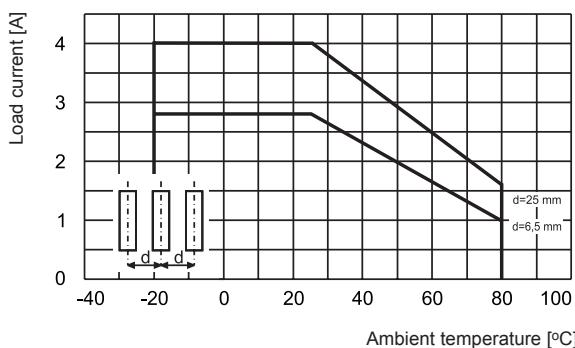
DC Load
- 4 A / 24 V

- Applications:** temperature control system, industrial automatic control, light system, office appliances, factory appliances
- Mounting:** relays RSR40 are designed for direct PCB mounting, single in line package

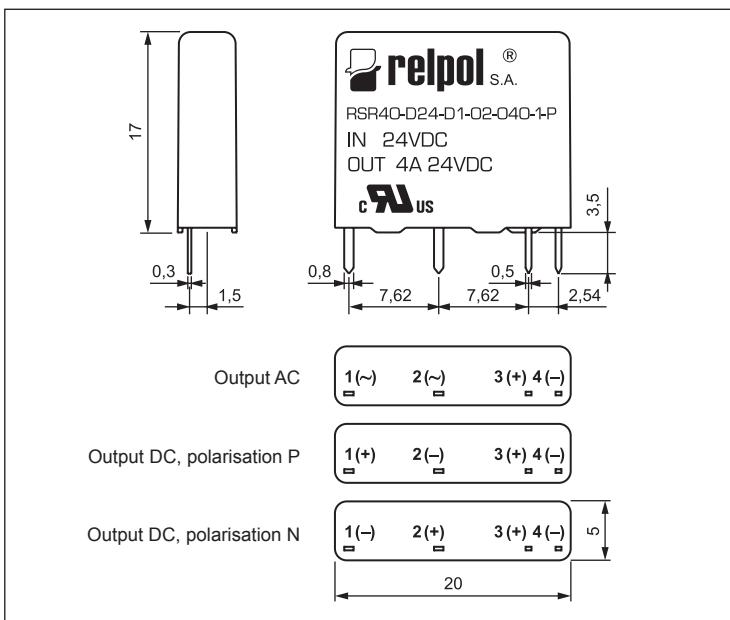
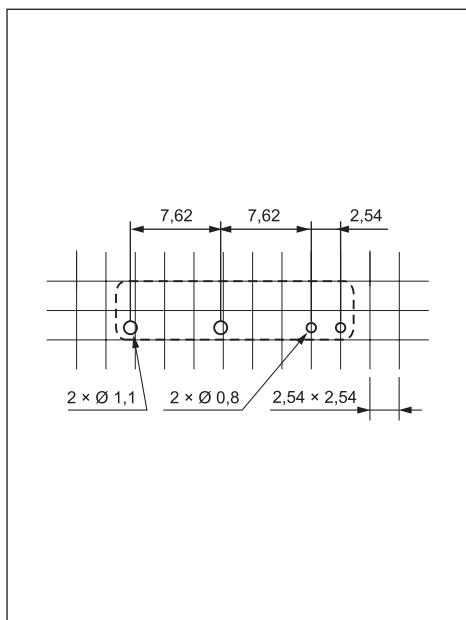
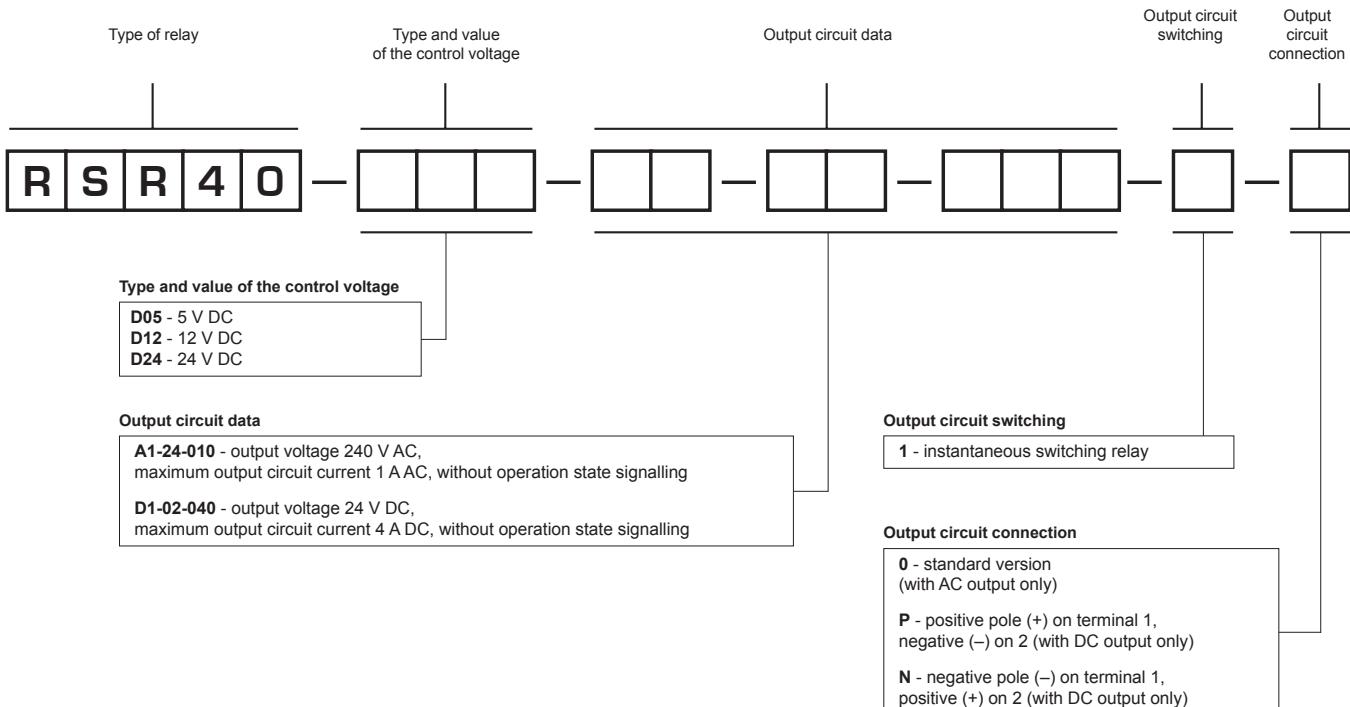
Type of relay ① ②	D05-D1-O2 -040-1-P	D12-D1-O2 -040-1-P	D24-D1-O2 -040-1-P	D05-D1-O2 -40-1-N	D12-D1-O2 -40-1-N	D24-D1-O2 -40-1-N
Input circuit						
Nominal voltage	5 V DC	12 V DC	24 V DC	5 V DC	12 V DC	24 V DC
Control voltage range	3...10 V DC	7...20 V DC	18...32 V DC	3...10 V DC	7...20 V DC	18...32 V DC
Max. control current	12 mA	10 mA	7,7 mA	12 mA	10 mA	7,7 mA
Release voltage	1,0 V DC	1,0 V DC	1,0 V DC	1,0 V DC	1,0 V DC	1,0 V DC
Input resistance	320 Ω	1,07 kΩ	3,0 kΩ	320 Ω	1,07 kΩ	3,0 kΩ
Output circuit						
Nominal load current			2 A DC see Fig.			
Max. load current			4 A DC see Fig.			
Nominal load voltage			rest condition: 24 V DC			
Load voltage range			0...30 V DC			
Non-repetitive surge current			operating state: 7 A 10 ms			
Max. off-state leakage current			rest condition: 1 mA			
Max. on-state voltage drop			operating state: 0,24 V			
Min. load current			operating state: 1 mA			
Operation resistance			operating state: 120 mΩ			
Operating switching frequency			10 Hz			
Output polarisation	P - 1(+) / 2(-)			N - 1(-) / 2(+)		
General data						
Output circuit switching moment			R ④			
Max. turn-on time			1 ms ⑤			
Max. turn-off time			0,1 ms ⑤			
Min. insulation resistance			between input and output: 1 000 MΩ 500 V DC			
Insulation dielectric strength			between input and output: 3 750 V AC 1 minute			
Dimensions (L x W x H)			20 x 5 x 17 mm			
Weight			3 g			
Storage temperature			-25...+80 °C			
Operating temperature			-20...+80 °C rated value: +50 °C see Fig.			
Max. solder bath temperature			220 °C 10 s			

Load current in the function of the ambient temperature and distances between relays

Dimensions, mounting openings
raster, ordering codes - see page 17



- ①** The data in bold type pertain to the standard versions of the relays.
- ②** Basic technical data at 20 °C
- ③** R - instantaneous switching of the output circuit
- ④** At rated voltage

Dimensions**Mounting openings raster****Ordering codes**

Example of ordering code:

RSR40-D24-D1-02-040-1-P solid state relay **RSR40**, rated control voltage 24 V DC, rated voltage of output circuit - load 24 V DC, maximum output circuit current 4 A DC, without operation state signalling, instantaneous switching, output polarisation P - 1(+) / 2(-)