RSR30
Slimline Interface Relays

- Optically isolated
- Low on-state resistance
- Low input power consumption
- TTL and CMOS compatible
- RC networks (V AC)
- MOSFET output thyristor (V DC)

- Applications: household appliances, temperature control system, industrial automatic control, light system, office appliances, factory appliances
- Mounting: relays RSR30 are designed for direct PCB mounting, single in line package

E105728

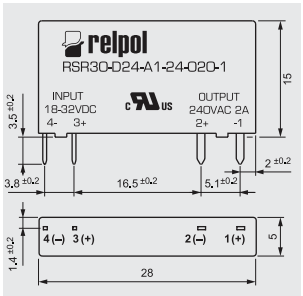
AC Load - 2 A / 240 V

Input circuit

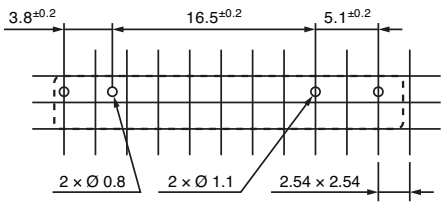
Part Number	Nominal voltage V DC	Control voltage range V DC	Max. control current mA	Release voltage V DC	Input resistance kΩ
► **RSR30-D05-A1-24-020-1**	**5**	3…10	12	1.0	0.32
► **RSR30-D12-A1-24-020-1**	**12**	7…20	10	1.0	1.07
► **RSR30-D24-A1-24-020-1**	**24**	18…32	7.7	1.0	3.0

Output circuit	AC Load - 2 A / 240V
Nominal load current	1 A AC see Figure below
Max. load current	2 A AC see Figure below
Nominal load voltage	rest condition: 240 V AC
Load voltage range	12...280 V AC
Non-repetitive peak voltage	rest condition: 600 V AC
Non-repetitive surge current	operating state: 80 A
Max. off-state leakage current	rest condition: 1.5 mA
Max. on-state voltage drop	operating state: 1.2 V
Min. load current	operating state: 50 mA
Off-state dV/dt	max. allowable rate of voltage rise: 500 V/µs
Operating frequency range	47...400 Hz
RC snubber	10 nF, 100 Ω
Operation resistance	-
Peak power dissipation	-
Operating switching frequency	-
Transient voltage suppressor	-
Max voltage of suppressor operation	
General data	
Output circuit switching moment	R - instantaneous switching of the output circuit
Max. turn-on time	100 µs at rated voltage
Max. turn-off time	1/2 cycle + 1 ms at rated voltage
Insulation dielectric strength	between input and output: 4 000 V AC 1 minute
Dimensions (L x W x H)	28 x 5 x 15 mm
Weight	4 g
Storage temperature	-40...+100°C
Operating temperature	-20...+80 °C rated value: +55 °C see Figure below
Max. solder bath temperature	220 °C 10 s

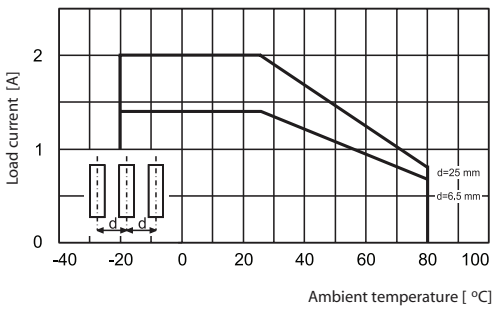
DIMENSIONS



PIN OUTS



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



► **BOLD - Regular stocked items.**