

DESCRIPTION	TYPES	RSR30		
		D05-A1-24-020-1	D12-A1-24-020-1	D24-A1-24-020-1
<b>INPUT CIRCUIT</b>				
Nominal voltage		5 VDC	12 VDC	24 VDC
Control voltage range		3 ~ 10 VDC	7 ~ 20 VDC	18 ~ 32 VDC
Control current		12 mA	10 mA	7.7 mA
Release voltage		1 V	1 V	1 V
Input internal resistor		320 Ω	1070 Ω	3000 Ω
<b>GENERAL CHARACTERISTICS</b>				
Operating temperature range		-20°C do +80°C		
Storage temperature range		-40°C do +100°C		
Input-output isolation		4 KVrms, 1 minute (for input-output)		
Maximum soldering heat		220°C (10sec)		
Weight		4 g		
<b>OUTPUT CHARACTERISTICS (at 20°C)</b>				
Load voltage		240 VAC		
Operating voltage range		12 - 280 VAC		
Peak voltage (clamping voltage)		600 VAC		
Nominal current		2 A		
Non-repetitive overload peak current		80 A		
On state voltage drop		1.2 V		
Max. off-state leakage current		< 1.5 mA		
Min. load current		50 mA		
Turn-on time (at nominal voltage)		100 μs		
Turn-off time (at nominal voltage)		1/2 cycle + 1 ms		
Operating switching frequency		47 Hz - 400 Hz		
Off state dv/dt		500 V/μs		
RC Snubber		10 nF, 100 Ω		

### Features

- Optically isolated.
- Low On-State Resistance.
- Low input power consumption.
- TTL and CMOS compatible.
- RC networks (VAC)
- MOSFET Output Thyristor (VDC)

### Applications

- Household Appliances
- Temperature Control System
- Industrial Automatic Control
- Light System
- Office Appliances
- Factory Appliances

# RSR30

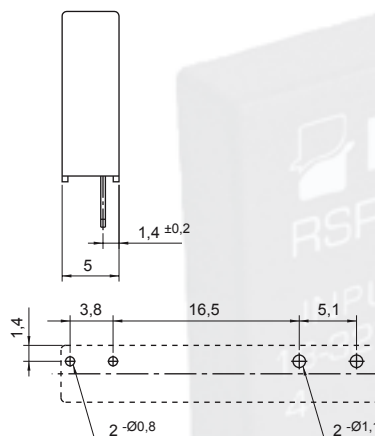
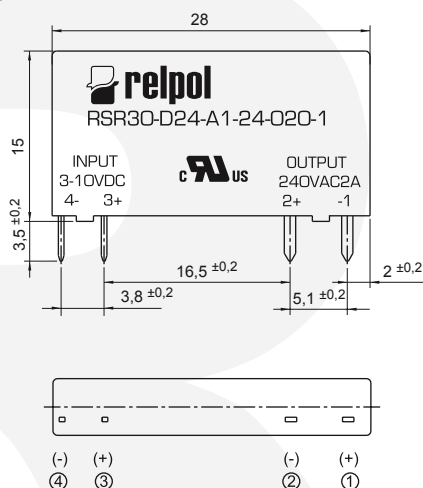
## Slim Type



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DESCRIPTION	TYPES	RSR30			
		D05-D1-04-025-1	D12-D1-04-025-1	D24-D1-04-025-1	D48-D1-04-025-1
<b>INPUT CIRCUIT</b>					
Nominal voltage		5 VDC	12 VDC	24 VDC	48 VDC
Control voltage range		3 ~ 10 VDC	7 ~ 20 VDC	18 ~ 32 VDC	38 ~ 58 VDC
Control current		12 mA	10 mA	7.7 mA	4.4 mA
Release voltage		1.8 V	3.6 V	8.3 V	8.3 V
Input internal resistor		320 Ω	1070 Ω	3000 Ω	10800 Ω
<b>GENERAL CHARACTERISTICS</b>					
Operating temperature range		-20°C do +80°C			
Storage temperature range		-25°C do +80°C			
Input-output isolation		3750 Vrms, 1 minute (for input-output)			
Maximum soldering heat		220°C (10sec)			
Weight		4 g			
<b>OUTPUT CHARACTERISTICS</b>					
Load voltage		48 VDC			
Operating voltage range		0 - 60 VDC			
Nominal current		2.5 A			
Non-repetitive overload peak current		6 A			
On state voltage drop (at IL=2A)		0.4 V			
State output on-resistance (at IL=2A)		200 mΩ			
Max. off-state leakage current		< 1 mA			
Min. load current		1 mA			
Turn-on time (at nominal voltage)		50 μs			
Turn-off time (at nominal voltage)		600 μs			
Operating switching frequency		10 Hz			
Transient voltage suppressor		YES			
Breakdown voltage		60 VDC			
Peak power dissipation		600 W			
Peak Voltage (clamping voltage)		100 VDC			

### Dimensions





DESCRIPTION	TYPES	RSR30			
		D05-D1-02-040-1	D12-D1-02-040-1	D24-D1-02-040-1	D48-D1-02-040-1
<b>INPUT CIRCUIT</b>					
Nominal voltage		5 VDC	12 VDC	24 VDC	48 VDC
Control voltage range		3 ~ 10 VDC	7 ~ 20 VDC	18 ~ 32 VDC	38 ~ 58 VDC
Control current		12 mA	10 mA	7.7 mA	4.4 mA
Release voltage		1.8 V	3.6 V	8.3 V	8.3 V
Input internal resistor		320 Ω	1070 Ω	3000 Ω	10800 Ω
<b>GENERAL CHARACTERISTICS</b>					
Operating temperature range		-20°C do +80°C			
Storage temperature range		-25°C do +80°C			
Input-output isolation		3750 Vrms, 1 minute (for input-output)			
Maximum soldering heat		220°C (10sec)			
Weight		4 g			
<b>OUTPUT CHARACTERISTICS</b>					
Load voltage		24 VDC			
Operating voltage range		0 - 32 VDC			
Nominal current		4 A			
Non-repetitive overload peak current		7 A			
On state voltage drop (at IL=2A)		0.24 V			
State output on-resistance (at IL=2A)		120 mΩ			
Max. off-state leakage current		< 1 mA			
Min. load current		1 mA			
Turn-on time (at nominal voltage)		50 μs			
Turn-off time (at nominal voltage)		600 μs			
Operating switching frequency		10 Hz			
Transient voltage suppressor		YES			
Breakdown voltage		36 VDC			
Peak power dissipation		600 W			
Peak Voltage (clamping voltage)		60 VDC			

### Part numbering system

