



DESCRIPTION	TYPES	RSR30		
		D05-A1-24-020-1	D12-A1-24-020-1	D24-A
INPUT CIRCUIT				
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
GENERAL CHARACTERISTICS				
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		
OUTPUT CHARACTERISTICS (at 20°C)				
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 μ s		
Turn-off time (at nominal voltage)		1/2 cycle + 1 ms		
Operating switching frequency		47 Hz - 400 Hz		
Off state dv/dt		500 V/ μ s		
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)

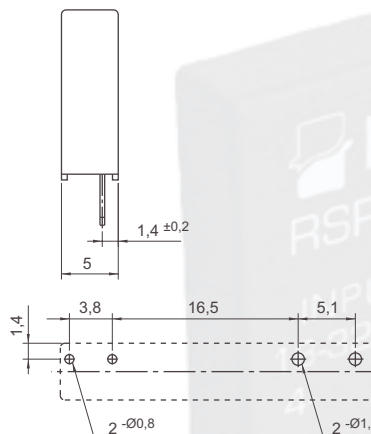
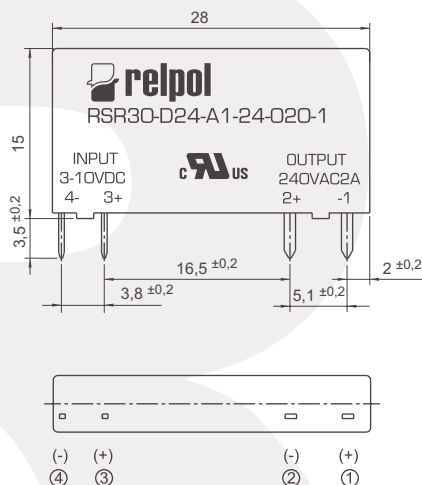
Applications

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



DESCRIPTION	D1-04-025-1	TYPES	RSR30			
			D05-D1-04-025-1	D12-D1-04-025-1	D24-D1-04	
INPUT CIRCUIT						
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
GENERAL CHARACTERISTICS						
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					
OUTPUT CHARACTERISTICS						
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	D48-D1-02-040-1
INPUT CIRCUIT					
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
GENERAL CHARACTERISTICS					
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			
OUTPUT CHARACTERISTICS					
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

