

Solid state relays PCB type, 1-phase

	AC zero switching			DC switching
Types	RP1A - RP1B 3/5/5.5A (AC)	RP..10A 10A (AC)	RAP 3/5A (AC)	RP1D 1A, 4A, 8A (DC)
PCB mounting SSRs, AC and DC operating. Rated isolation voltage ≥4000 Vrms.				
Dimensions H x W x D (mm)	25.4 x 43 x 10.5	37 x 43 x 22	25.4 x 43 x 10.5	25.4 x 43 x 10.5
Features	Standard AC switching SSR	With integral heatsink	LED indication High blocking voltage	DC switching SSR
Input specifications				
Control input range	3-32 VDC [RP1A23..] 3-32 VDC [RP1A40..] 4-32 VDC [RP1A48..] 15-32 VAC [RP1A23A6]	3-32 VDC [RP1A23..] 4-32 VDC [RP1A40..] 4-32 VDC [RP1A48..]	3.5-40 VDC [RAP40..] 4.5-40 VDC [RAP48..]	4.5 - 32 VDC
Max. input current	10 mA	10 mA	12 mA	15 mA
Output specifications				
Rated operational current				DC1: 1/4/8 ADC
AC 51 @ Ta=25°C	3 A [RP1...3] 5 A [RP1...5] 5.5 A [RP1...6]	10 A	3 A [RAP...A3] 5 A [RAP...A5]	
AC 53a @ Ta=25°C	2 A [RP1...3] 3 A [RP1...5] 5 A [RP1...6]	7 A	2.5 A [RAP...A3] 3 A [RAP...A5]	
Min. operational current	20 mA	10 mA	20 mA	1 mADC
Non rep. surge current (t=20 ms)	65 A _p [RP1...3] 80 A _p [RP1...5] 250 A _p [RP1...6]	250 A _p	60 A _p [RAP...A3] 90 A _p [RAP...A5]	
Off-state leakage current	≤ 1 mA	≤ 3 mA	≤ 1 mA	0.01 mADC
I ² t for fusing (t=10 ms)	20 A ² s [RP1...3] 50 A ² s [RP1...5] 340 A ² s [RP1...6]	340 A ² s	18 A ² s [RAP...A3] 40 A ² s [RAP...A5]	
Critical dV/dt off-state	250 V/μs [RP1...3] 500 V/μs [RP1...5] 500 V/μs [RP1...6]	1000 V/μs	100 V/μs	
General specifications				
Operational voltage range	12-265 Vrms [RP1A23..] 20-440 Vrms [RP1A40..] 20-530 Vrms [RP1A48..]	12-265 Vrms [RP1A23..] 20-440 Vrms [RP1A40..] 20-530 Vrms [RP1A48..]	10-440 Vrms [RAP40..] 20-530 Vrms [RAP48..]	1- 60 VDC [RP1D060...] 1 - 350 VDC [RP1D350...]
Blocking voltage	650 V _p [RP1A23..] 850 V _p [RP1A40..] 1000 V _p [RP1A48..]	650 V _p [RP1A23..] 850 V _p [RP1A40..] 1000 V _p [RP1A48..]	1000 V _p [RAP40..] 1200 V _p [RAP48..]	
Power factor	0.5	0.5	0.2	0.5
Operating temperature	-20°C to +70°C	-30°C to +80°C	-20°C to +70°C	-20°C to +80°C
Terminals	4 pins x Ø 0.1 mm	4 pins x Ø 0.1 mm	4 pins x Ø 0.1 mm	4 pins x Ø 0.1 mm
Approvals/Marks	CE - UL - cUL - VDE	CE - UL - cUL	CE - UL - CSA - VDE	CE - UL - cUL
References				
	3 A	10 A	3 A	1 A
	RP1A23D3	RP1A23D10	RAP40A3	RP1D350D1
	RP1A40D3	RP1A40D10	RAP48A3	
	RP1A48D3	RP1A48D10		4 A
	5 A		5 A	RP1D060D4
	RP1A23D5		RAP40A5	
	RP1A40D5		RAP48A5	8 A
	RP1A48D5			RP1D060D8
	5.5 A			
	RP1A23D6			
	RP1A23A6			
	RP1A40D6			
	RP1A48D6			

* Other options available on request: Instant-on switching (RP1B..), see Accessories for DIN-rail adaptor.

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