



- » Analog switching AC solid state relay.
- » Two input ranges: 4 - 20 mA and 2 - 10 VDC.
- » Maximum load current (AC1 at 25° C): 25, 40, 60, 80, 100 A.
- » Operational ratings: 0 - 380 VAC.
- » Frequency range: 50 - 60 Hz.
- » Maximum non-repetitive peak voltage: 850 Vp.
- » Clip on protective cover for greater safety (IP 20).

References

Control voltage	Operational voltage	Operational current	Reference	Ref. heat sink
2 - 10VDC	240 VAC	25 A	RS1APV010DC240025R	RSH-060
		40 A	RS1APV010DC240040R	RSH-061
	380 VAC	60 A	RS1APV010DC380060R	RSH-038
		80 A	RS1APV010DC380080R	RSH-038
		100 A	RS1APV010DC380100R	RSH-039
4 - 20mA	240 VAC	25 A	RS1API420mA240025R	RSH-060
		40 A	RS1API420mA240040R	RSH-061
	380 VAC	60 A	RS1API420mA380060R	RSH-038
		80 A	RS1API420mA380080R	RSH-038
		100 A	RS1API420mA380100R	RSH-039

General specifications

Dielectric insulation (between input & output)	2.500 VAC
Operating temperature	-40 °C to 80 °C
Storage temperature	-45 °C to 85 °C
Rth junction to case	2,5° C/W(25A)
	0,5° C/W(80A)
	1,25° C/W(40A)
	0,3° C/W(100A)
Ambient humidity	0,65° C/W(60A)
	Operating: up to 85 %
CE marking	Yes

Input specifications

	VDC input	Current
Control voltage range	2 - 10 VDC	4 - 20 mA
And control mA range	13/16 mA @ 5 V/24 V	29 mA @ 220 VAC
Pick-up voltage	1,9 VDC	70 VAC
Drop-out voltage	1,9 VDC	70 VAC
Maximum reverse voltage	32 VDC	-
Max. response time pick-up	1 ms	-
Max. response time drop-out	½ cycle	-

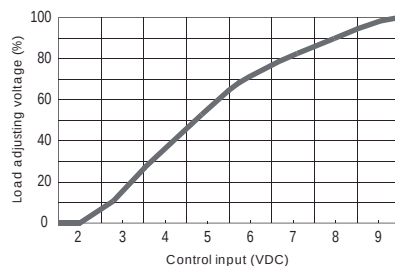
Output specifications

Maximum load current	(AC51 @ Ta = 25° C)	25, 40, 60, 80, 100 A
	(AC53a @ Ta = 25° C)	5, 15, 18, 20 A
Load voltage range	0 - 240VAC / 0 - 380 VAC	
Frequency range	50 - 60 Hz	
Max. non-repetitive peak voltage	850 Vp	
Max. non-repetitive peak current (t=10ms)	350 Ap / 25 A	910 Ap / 80 A
	500 Ap / 40 A	1100 Ap / 100 A
	630 Ap / 60 A	
Maximum off state leakage current	8 mA Arms	
Minimum off state dv / dt	200 V / µseg	
Maximum on state voltage	1,6 VAC	
Minimum load current	0,15 - 0,25 Arms	
I ² t (10 ms) (orientative data)	625 A ² s (25 A)	4.225 A ² s (80 A)
	1.250 A ² s (40A)	6.050 A ² s (100A)
	2.025 A ² s (60A)	

Housing specifications

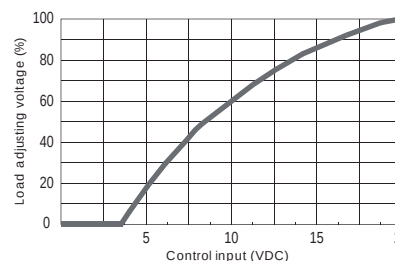
Dimensions (L x W x H mm)	57 x 44 x 23
Weight	160 gr max.
Baseplate	Aluminum, nickel-plated
Control terminal (M3x6) torque	1,2 Nm
Power terminal (M5x9) torque	2,4 Nm

Load adjusting voltage (%) Vs. Control input



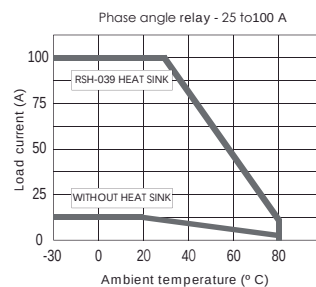
RS1APV010DC240025R
RS1APV010DC240040R
RS1APV010DC380060R
RS1APV010DC380080R
RS1APV010DC380100R

Over 10 A load a heat sink must be used. The use of a heat sink will make the lifetime of the relay up to four times longer, even when using it with load currents lower than 10 A.



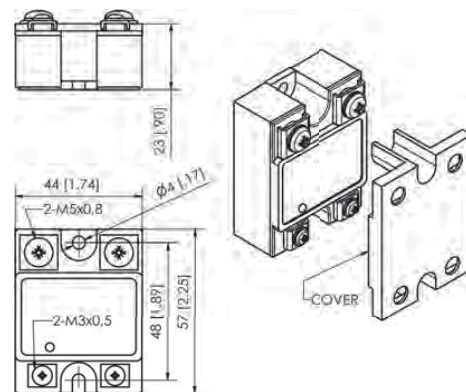
RS1API420mA240025R
RS1API420mA240040R
RS1API420mA380060R
RS1API420mA380080R
RS1API420mA380100R

Load current vs. ambient temperature



RS1APV010DC240025R
RS1APV010DC240040R
RS1APV010DC380060R
RS1APV010DC380080R
RS1APV010DC380100R
RS1API420mA240025R
RS1API420mA240040R
RS1API420mA380060R
RS1API420mA380080R
RS1API420mA380100R

Dimensions (mm-inch)



Diagrams

