



- » Three phase AC solid state relay, zero crossing.
- » Two input ranges: 3 - 32 VDC and 90 - 250 VAC.
- » Maximum load current (AC1 at 25° C): 25, 60, 80, 100, 120 A.
- » Operational ratings: 40 - 440 VAC.
- » Frequency range: 50- 60 Hz.
- » Maximum non-repetitive peak voltage: 930 Vp.
- » LED indicator.
- » Clip on protective cover for greater safety (IP 20).

References

Control voltage	Operational voltage	Operational current	Reference	Reference heat sink
3 - 32 VDC	40 - 440 VAC	25 A	RS3A0P032DC440025Z	RSH-035
		60 A	RS3A0P032DC440060Z	RSH-038
		80 A	RS3A0P032DC440080Z	RSH-038
120 A		RS3A0P032DC440120Z	RSH-039	
90 - 250 VAC		25 A	RS3A0P250AC440025Z	RSH-035
		60 A	RS3A0P250AC440060Z	RSH-038
	80 A	RS3A0P250AC440080Z	RSH-038	
	100 A	RS3A0P250AC440100Z	RSH-039	

General specifications

Dielectric insulation (between input & output)	2.500 VAC
Operating temperature	-25 °C to 70 °C
Storage temperature	-35 °C to 85 °C
Ambient humidity	Operating: up to 85 % CE marking Yes

Input specifications

	VDC input	VAC input
Control voltage range	3 - 32 VDC	90 - 250 VAC
Input current (max)	5/25 mA @ = 3 V/32 V	5/30 mA @ = 90/250 V
Pick-up voltage	3 VDC	70 VAC
Drop-out voltage	1 VDC	70 VAC
Maximum reverse voltage	32 VDC	-
Max. response time pick-up	-	10 ms
Max. response time drop-out	-	10 ms

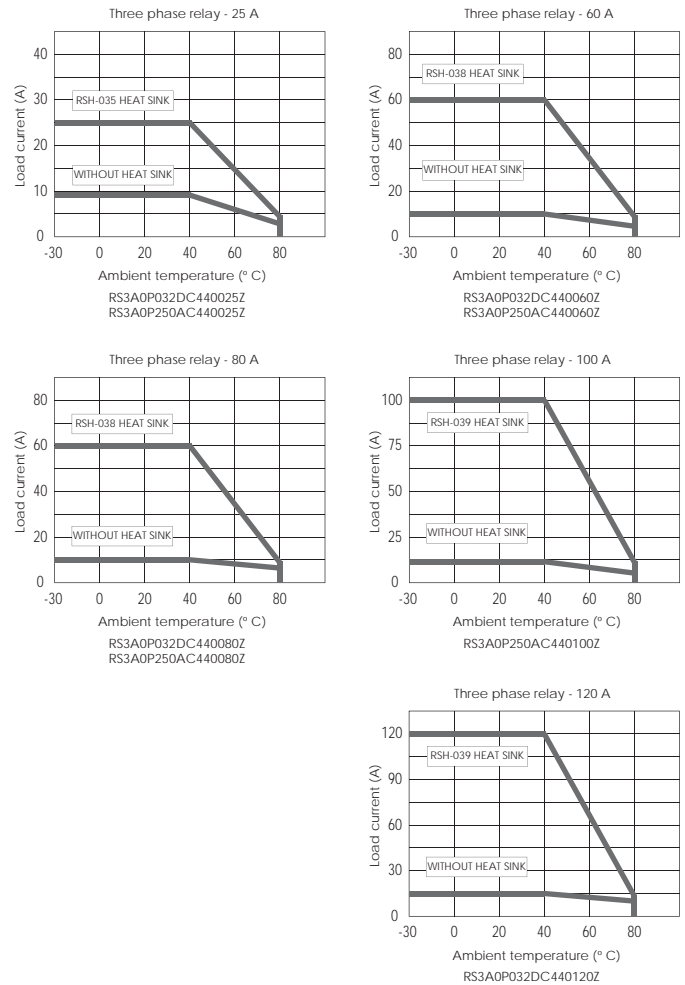
Output specifications

Maximum load current (AC51 @ Ta = 25° C)	25, 60, 80, 100, 120 A	
(AC53a @ Ta = 25° C)	5, 15, 18, 20, 21 A	
Load voltage range	40 - 440 VAC	
Frequency range	50 - 60 Hz	
Max. non-repetitive peak voltage	930 Vp	
Max. non-repetitive peak current (t=10ms)	350 Ap/ 25 A	1.100 Ap/100 A
	630 Ap/ 60 A	1.400 Ap/120 A
	910 Ap/ 80 A	
Maximum off state leakage current	10 mArms	
Minimum off state dv / dt	300 V / µseg	
Maximum on state voltage	1,6 VAC	
Minimum load current	0,1 Arms	
I²t (10 ms) (orientative data)	625 A²s (25 A)	6.050 A²s (100A)
	2.025 A²s (60A)	9.800 A²s (120A)
	4.225 A²s (80 A)	

Housing specifications

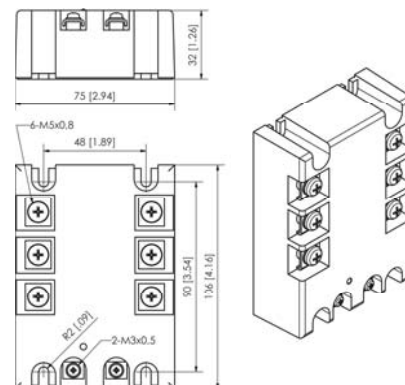
Dimensions (L x W x H mm)	106 x 75 x 32
Weight	150 gr max.
Baseplate	Aluminum, nickel-plated
Control terminal (M3x6) torque	1,2 Nm
Power terminal (M5x9) torque	2,4 Nm

Load current vs. ambient temperature



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.

Dimensions (mm. inch)



Diagrams

