» Three phase AC solid state relay, zero crossing.
» Two input ranges: 3 - 32 VDC and 90 - 250 VAC.
» Maximum load current (AC1 at 25º C): 25, 60, 80, 100, 120 A.
» Operational ratings: 40 - 480 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 - 480 VAC	25 A	RS3A0P032DC480025Z	RSH-035
		60 A	RS3A0P032DC480060Z	RSH-038
		80 A	RS3A0P032DC480080Z	RSH-038
		120 A	RS3A0P032DC480120Z	RSH-039
90 - 250 VAC		25 A	RS3A0P250AC480025Z	RSH-035
		60 A	RS3A0P250AC480060Z	RSH-038
		80 A	RS3A0P250AC480080Z	RSH-038
		100 A	RS3A0P250AC480100Z	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

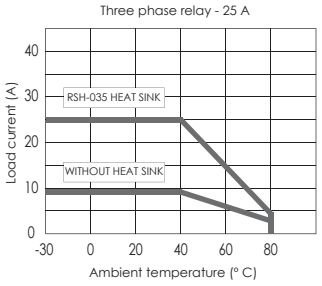
Output specifications

Maximum load current (AC51 @ Ta = 25º C) (AC53a @ Ta = 25º C)	25, 60, 80, 100, 120 A 5, 15, 18, 20, 21 A	
Load voltage range	40 - 480 VAC	
Frequency range	50 - 60 Hz	
Max. non-repetitive peak voltage	930 Vp	
Max. non-repetitive peak current (t=10ms)	350 Ap/ 25 A 630 Ap/ 60 A 910 Ap/ 80 A	1.100 Ap/100 A 1.400 Ap/120 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	
I^2t (10 ms) (orientative data)	625 A^2s (25 A) 2.025 A^2s (60A) 4.225 A^2s (80 A)	6.050 A^2s (100A) 9.800 A^2s (120A)

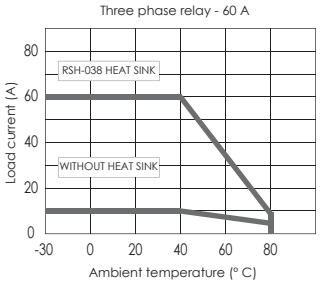
Housing specifications

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



RS3A0P032DC480025Z
RS3A0P250AC480025Z



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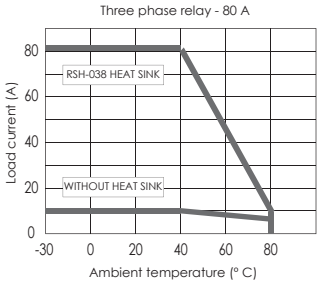

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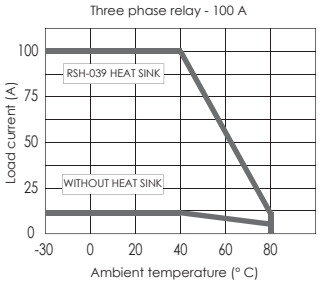
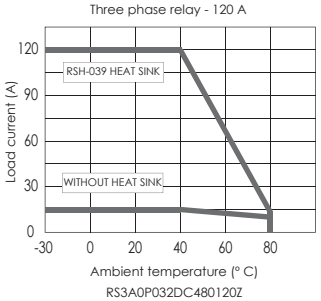


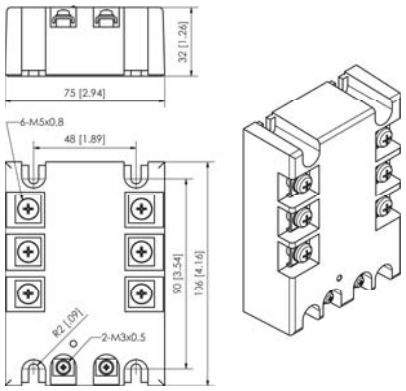
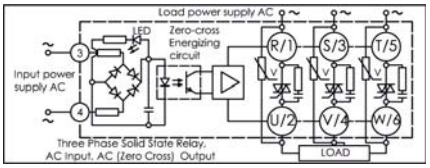
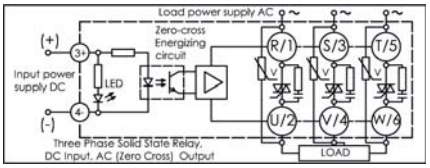
RS3A0P250AC480100Z



RS3A0P032DC480120Z

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