



# Solid State Relays Datasheet 9225201



#### **Features**

Switching Zero Cross

Output Triac with internal snubber

Input DC with constant current control

**Applications** resistive and inductive loads with  $\cos \phi > 0.85$  (Z-Type)

inductive load with  $cos\phi > 0.65$  (R-Type)

#### **Technical data**

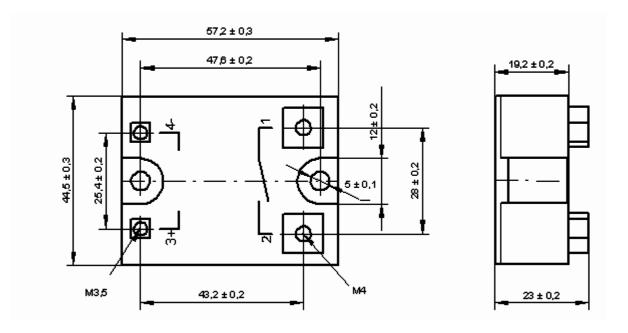
Innut airquit				
Input circuit	2 20 VPC			
Control voltage range	332 VDC			
Control current max.	10 mA			
Turn-off voltage min.	1 VDC			
Input resistance	Constant current			
Output circuit				
Load voltage range	24280 VAC			
Peak-off-state voltage	600 V <sub>drm</sub>			
Off-state leakage current	12 mA eff.			
Load current range	0,240 A			
Surge current 1 half wave	400 A <sub>peak</sub>			
I <sup>2</sup> t for fusing	880 A²s			
On-state voltage	1,85 V <sub>peak</sub>			
Off-state (static) dv/dt	500 V/μs			
Snubber	47 Ω / 100 nF			
General data	-			
Turn-on time max.	11 ms			
Turn-off time max.	11 ms			
Line frequency range	4763 Hz			
Isolation volt. between input/output	4.000 V			
Isolation volt. between input-output/base	2.500 V			
Isolation resistance	50 ΜΩ			
Operation temperature	-20+80 ℃			
Recommended varistor	SIOV-S20 K230			

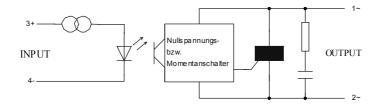
RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.





### **Dimensions in mm**



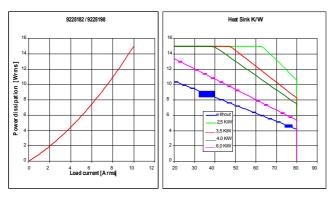


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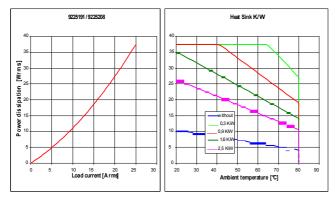
# **ENGLISH**

## **Derating diagrams**



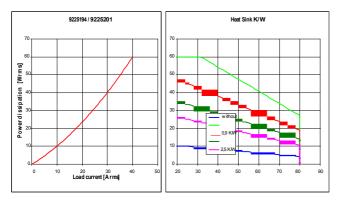
	Number of SSR per Heatsink/ Load current per SSR			
Heat sink	1 SSR	2 SSR	3 SSR	
9225227	10 A	8 A		
9225236	10 A	10 A		
9225239	10 A	10 A	10 A	
9225233	10 A	10 A	10 A	
9225242	10 A			

Values for 40°C enclosure-temperature and mounted with conducting paste between the SSR and the heat sink



	Number of SSR per Heatsink/ Load current per SSR			
Heat sink	1 SSR	2 SSR	3 SSR	
9225227	14 A	10 A		
9225236	17 A	14 A		
9225239	25 A	21 A	18 A	
9225233	25 A	25 A	25 A	
9225242	24 A			

Values for 40°C enclosure-temperature and mounted with conducting paste between the SSR and the heat sink



	Number of SSR per Heatsink/ Load current per SSR		
Heat sink	1 SSR	2 SSR	3 SSR
9225227	16 A	11 A	
9225236	20 A	15 A	
9225239	31 A	24 A	20 A
9225299	40 A	36 A	32 A
9225242	27 A		

Values for 40°C enclosure-temperature and mounted with conducting paste between the SSR and the heat sink

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