



Solid State Relays Datasheet 9225191



Features

Switching Random

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

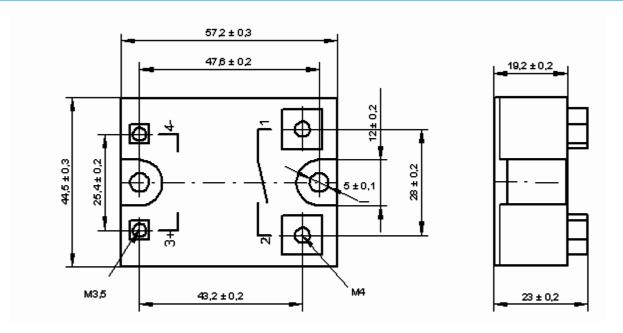
Input circuit				
Control voltage range	332 VDC			
Control current max.	10 mA			
Turn-off voltage min.	1 VDC			
Input resistance	Constant current			
Output circuit				
Load voltage range	24280 VAC			
Peak-off-state voltage	600 V _{drm}			
Off-state leakage current	12 mA eff.			
Load current range	0,125 A			
Surge current 1 half wave	230 A _{peak}			
I²t for fusing	260 A²s			
On-state voltage	1,85 V _{peak}			
Off-state (static) dv/dt	500 V/μs			
Snubber	47 Ω / 100 nF			
General data				
Turn-on time max.	0,1 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 MΩ			
Operation temperature	-20+80 ℃			
Recommended varistor	SIOV-S20 K230			

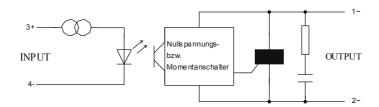
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Dimensions in mm



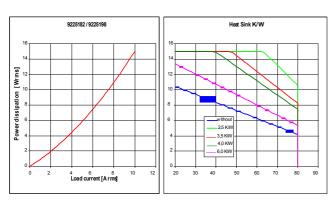


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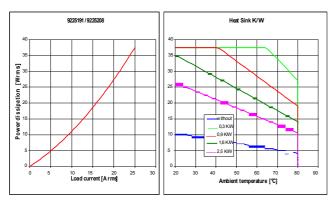
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Derating diagrams



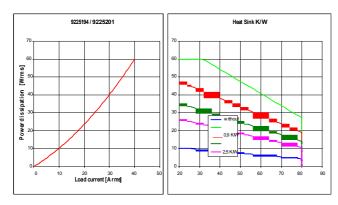
	Number of SSR per Heatsink/ Load current per SSR		
Heat sink	1 SSR	2 SSR	3 SSR
9225227	10 A	8 A	
9225236	10 A	10 A	
9225239	10 A	10 A	10 A
9225233	10 A	10 A	10 A
9225242	10 A		

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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