SSR with red function-LED

Type:	**15A**	**25A**	**40A**
Input DC voltage/ type:	**AP021/15**	**AP022/25**	**AP023/40**
nominal voltage	3...32VDC		
min. ON voltage	3VDC		
max. OFF voltage	1,0VDC		
input resistance	2,2 KOhm + LED		
Input AC voltage/ type:	**AP024/15**	**AP025/25**	**AP026/40**
nominal voltage	80...280VAC		
min. ON voltage	80VAC		
max. OFF voltage	10VAC		
input resistance	35 KOhm +/-10%		
Output:			
max. current	15A	A25	40A
current peak (50/60Hz)	180/188	300/315	400/420
nominal voltage	$240V_{eff}$		
range	$24...280V_{eff}$		
max. suspension	+/-600V		
max. leakage	$8mA_{eff}$		
critical voltage increase	200V/us		
critical conductance	200V/us		
min. load (mArms)	50	100	100
Other data:			
isolation voltage inp./outp.	2500Vrms		
isolation voltage baseplate	2500Vrms		
range of frequency	47...63 Hz		
switch time	max. 10ms		
ambient temperatur	-20...+80°C		
stocking temperature	-40...+100°C		
dimensions LxWxH	55x43x26		

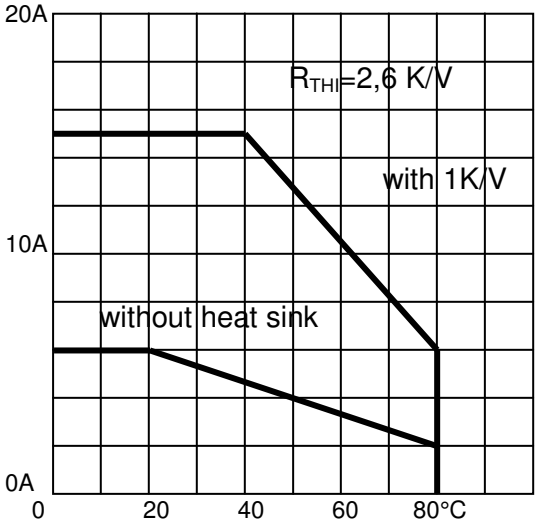
The Solid State Relays should be fixed with heat conduction paste at the heat sink.
Following calculation for the heat sink dimension:

$$R_{kk} < \frac{110°C - T_u}{I \times P_V} - R_{THI}$$

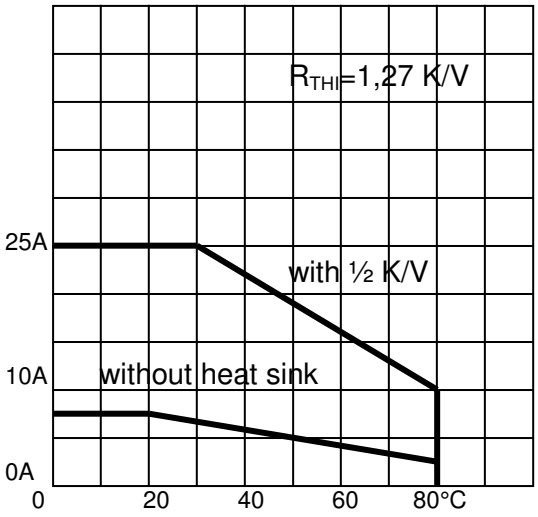
T_U = ambient temperature
I = effective load current (A)
R_{KK} = thermal resistance heat sink
P_V = power loss (Watt / A)
R_{THI} = thermal internal resistance of SSR

Load at ambient temperature

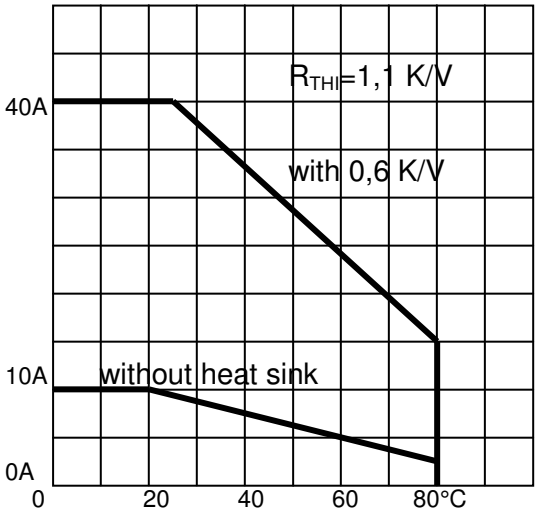
Type 15A P_V = 1,35 V/A



Type 25A P_V = 1,30 V/A



Type 40A P_V = 1,25 V/A



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