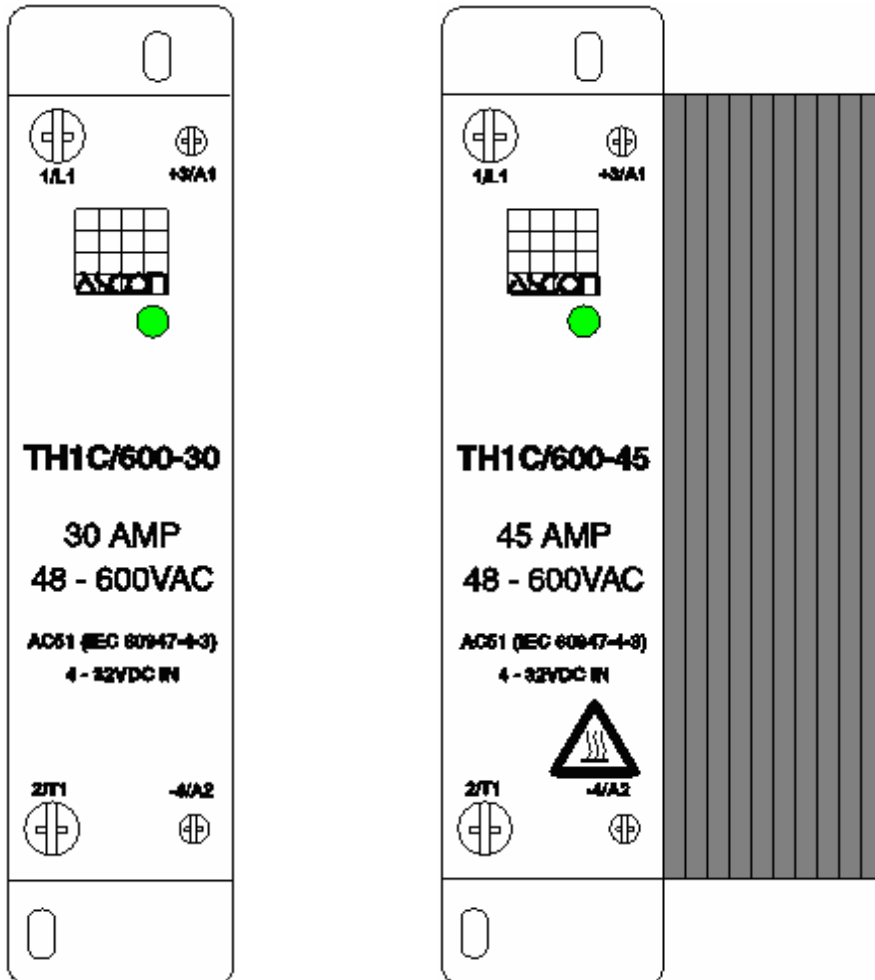




Solid State Relay TH1C / 600-30, TH1C / 600-45 Mounting Instructions



INSTALLATION MANUAL
M.I.U. TH1C - 1/07.09 Cod. Draft



ASCION Corporation

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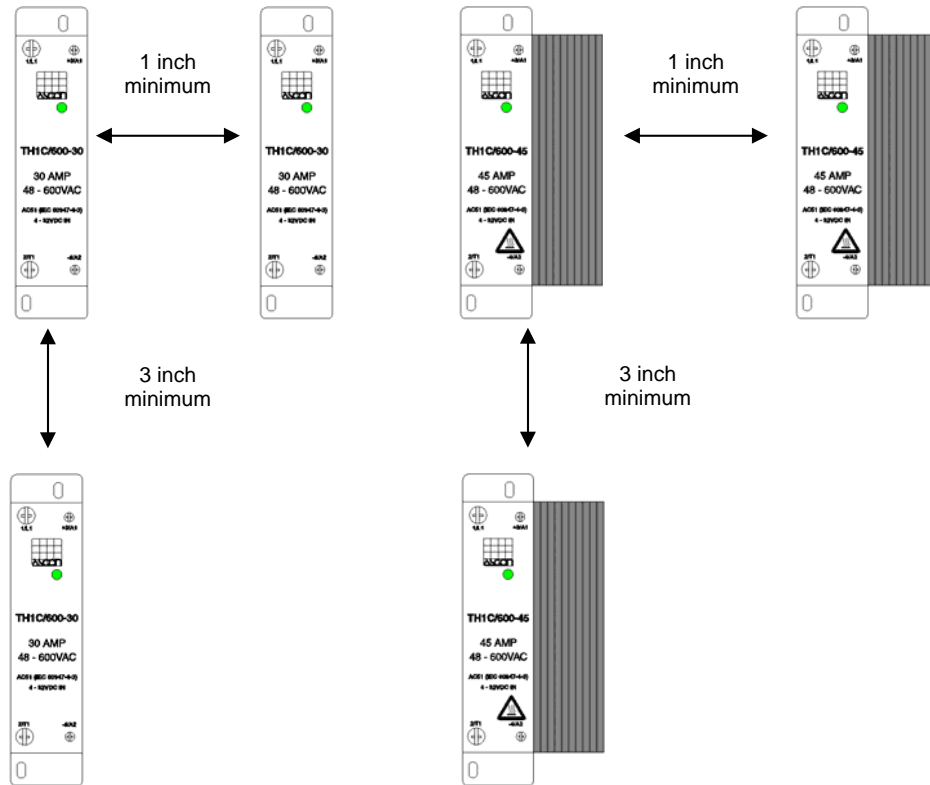
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1. Mounting instructions

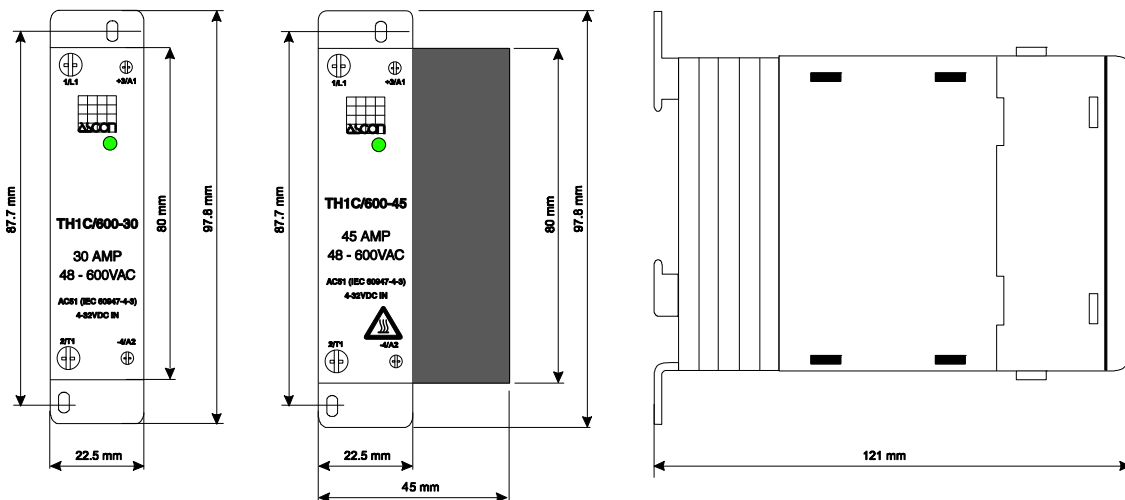
1.1 Clamping requirements

More than one TH1C solid state relay can be mounted side-by-side. It is important to keep in mind that to have better thermal dissipation, it is necessary to leave at least 1 inch (25 mm) between each SSR (see drawing below) and in a well ventilated area in the cabinet.

It is also important to evaluate properly the thermal dissipation related to working conditions.



2. Dimensions



3. General Characteristics

TH1C Model	30A	45A
Storage Temperature	-40...212°F (-40...100°C)	
Operating Temperature	-4...176°F (-20...80°C)	
Input to Output Insulation Voltage	4200 V (rms)	
Insulation Voltage between I/O and Ground	4000 V (rms)	
Line Frequency	47...63 Hz	

3.1 Input Specifications

TH1C Model	30A	45A
Control Voltage	4...32 V dc	
Turn-off Voltage	1 V dc	
Max Controlled Current	12 mA	
Turn-on Time	10 mS	
Response Time on Closing	10 mS	
Control Type	Zero crossing	

3.2 Output Specifications

TH1C Model	30A	45A
Voltage Range	48...600 Vrms	
Non-repetitive Peak Voltage	1100 V peak	
Maximum Current	30 A	45 A
Minimum Current	100 mA	
Max non-repetitive 1 cycle surge (at 77°F)	680 A	
Max non-repetitive 1 sec surge (at 77°F)	136 A	
Voltage drop at I max (at 77°F)	1.2 V peak	1.35 V peak
I^2t (t = 10ms) (A ² s) 50... 60Hz	2267	
Static dv / dt	500 V μ s	
Operating Frequency	47...63 Hz	

3.3 Thermal Derating Curves

