

The allowable continuous-current capabilities of S&C Loadbuster Disconnect Switches, listed below, were determined from temperature rise tests conducted according to the requirements of IEEE Standard C37.34-1994 and equal or exceed the minimum loadability requirements specified therein. The values below are based on an allowable maximum temperature of 90° C at the terminal pads.

As a point of information, overload capabilities of switches cannot be determined from the “switch performance test” specified in IEEE Standard C37.34-1994, which

is a qualitative appraisal of the ability of a sample switch in new condition to perform properly after once carrying 180% of rated current for 8 hours, at an ambient temperature of 25° C or higher. It is not intended that installed switches be intentionally subjected in service to such overloads on a repetitive basis since, as the standard points out, cumulative overloading of hard-drawn copper (as is typically used in switch blades) causes cumulative annealing. As the standard further points out, the switch performance test does not establish an overload rating.

Rating		Allowable Continuous-Current Capability, Amperes									
Amperes, Cont. ↓	kV, Nominal ↓										
Ambient Temperature, Degrees C →		0		10		20		30		40	
Wind Velocity, Feet per Second →		0	2	0	2	0	2	0	2	0	2
630	14.4 25	1055	1180	995	1125	930	1070	860	1015	785	930
900	14.4 25 25/34.5 34.5	1300	1425	1225	1355	1145	1285	1060	1215	970	1115

