



Model	V _{max}	I _{max}	I _{hold} @25°C	I _{trip} @25°C	P₀ Typ.	Maximum Time To Trip		Resistance	
						Current	Time	R i min	R1max
	(V dc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)
K1812L500/12PR	12.0	50	5.00	10.0	1.8	25	2.00	0.003	0.014

V max = Maximum operating voltage device can withstand without damage at rated current (Imax).

I max = Maximum fault current device can withstand without damage at rated voltage (Vmax).

I hold = Hold Current. Maximum current device will not trip in 25°C still air.

I trip = Trip Current. Minimum current at which the device will always trip in 25°C still air.

Pd = Power dissipation when device is in the tripped state in 25°C still air environment at rated voltage.

Ri min/max = Minimum/Maximum device resistance prior to tripping at 25°C.

R1max = Maximum device resistance is measured one hour post reflow.

CAUTION : Operation beyond the specified ratings may result in damage and possible arcing and flame.

Environmental Specifications

Test	Conditions	Resistance change					
Passive aging	+85°C, 1000 hrs.	±5% typical					
Humidity aging	+85°C, 85% R.H. , 168 hours	±5% typical					
Thermal shock	+85°C to -40°C, 20 times	±33% typical					
Resistance to solvent	MIL-STD-202, Method 215	No change					
Vibration	MIL-STD-202, Method 201	No change					
Ambient operating conditions : - 40 °C to +85 °C							
Maximum surface temperature of the device in the tripped state is 125 °C							

Thermal Derading Chart

Recommended Hold Current(A) at Ambient Temperature(°C)

Madal	Ambient Operation Temperature								
Woder	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
K1812L500/12PR	7.2	6.525	5.625	5.00	4.50	4.15	3.62	2.7	2.0