




Description

A250 Series is designed to protect against short duration high voltage fault currents (power cross or power induction surge) typically found in telecom applications (250Vrms). The series can be used to help telecom networking equipment meet the protection requirements specified in ITU K.20 and K.21.

Features



- 0.03 - 1.0A hold current range, 60VDC operating voltage
- 250VAC interrupt rating
- Fast time-to-trip
- Binned and sorted narrow resistance ranges available
- RoHS compliant, Lead-Free and Halogen-Free*

Agency Approvals

Agency	File Number
	E472196
	pending

Applications

- Customer Premises Equipment (CPE)
- Central Office (CO)/telecom centers
- LAN/WAN equipment
- Access equipment

Regulation	Standard
	2002/95/EC
	EN14582

Performance					Specification					
Model	I _{hold} @25°C (A)	I _{trip} @25°C (A)	V _{max} V _{int} / V _{op}	I _{max} (A)	P _d Typ. (W)	Maximum Time To Trip		Resistance		
						Current (A)	Time (Sec)	R _{i min} (Ω)	R _{i max} (Ω)	R _{1max} (Ω)
A250-030	0.03	0.06	250/60	3.0	1.00	0.15	0.40	40.0	120	180
A250-040	0.04	0.08	250/60	3.0	1.00	0.20	0.45	30.0	65	100
A250-050	0.05	0.10	250/60	3.0	1.00	0.25	0.45	24.0	60	90
A250-060	0.06	0.12	250/60	3.0	1.00	0.30	0.50	20.0	60	90
A250-080	0.08	0.16	250/60	3.0	1.00	0.40	3.00	12.0	22	33
A250-090	0.09	0.18	250/60	3.0	1.00	0.45	3.00	10.0	20	31
A250-110	0.11	0.22	250/60	3.0	1.00	0.50	0.75	6.00	12	17
A250-120	0.12	0.24	250/60	3.0	1.00	0.60	0.75	6.00	12	18
A250-145	0.145	0.29	250/60	3.0	1.00	0.725	2.50	3.50	6.5	14
A250-180	0.18	0.36	250/60	10.0	1.00	0.90	15.0	0.80	4.0	6.0
A250-200	0.20	0.40	250/60	10.0	1.50	1.00	15.0	1.50	6.0	9.0
A250-300	0.30	0.60	250/60	10.0	1.50	1.50	1.50	1.00	5.0	9.0
A250-400	0.40	0.80	250/60	10.0	2.50	2.00	10.0	0.75	3.0	6.0
A250-500	0.50	1.00	250/60	10.0	2.50	2.50	1.50	0.50	2.5	5.0
A250-600	0.60	1.20	250/60	10.0	3.00	3.00	10.0	0.50	2.0	5.0
A250-800	0.80	1.60	250/60	10.0	3.50	4.00	8.00	0.40	1.0	3.0
A250-1000	1.00	2.00	250/60	10.0	4.00	5.00	10.0	0.28	0.8	2.5

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.

V_{max} = Maximum operating voltage device can withstand without damage at rated current (I_{max}).

I_{max} = Maximum fault current device can withstand without damage at rated voltage (V_{max}).

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

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

R_{1max} = 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