



Features

- Radial Leaded Devices
- Cured, flame retardant epoxy polymer insulating material meets UL 94V-0 requirements
- Bulk packaging, or tape and reel available on most models

Applications

Almost anywhere there is a low voltage power supply, up to DC60V and a load to be protected, including:

- Security and fire alarm systems
- Analog and digital line cards
- Modems and DSL

Electrical Properties

Model	I _{hold} (A)	I _{trip} (A)	V _{max} Operating	V _{max} Interrupt	I _{max} (A)	Maximum Time To Trip		Resistance		Agency Approval	
			(Vdc)	(Vrms)		Current (A)	Time (Sec)	Ri _{min} (Ω)	Ri _{max} (Ω)	UL	TUV
Bp030-250	0.03	0.06	60	250	1	0.09	15.0	35.0	90.0		
Bp040-250	0.04	0.08	60	250	1	0.12	15.0	27.0	65.0		
Bp050-250	0.05	0.10	60	250	1	0.15	15.0	20.0	45.0		
Bp060-250	0.06	0.12	60	250	3	0.35	2.0	20.0	45.0		
Bp080-250	0.08	0.16	60	250	3	0.35	3.0	10.0	22.0	✓	
Bp090-250	0.09	0.18	60	250	3	0.35	4.0	7.0	17.5	✓	
Bp110-250	0.11	0.22	60	250	3	1.00	1.1	6.0	12.0	✓	
Bp120-250	0.12	0.24	60	250	3	1.00	1.5	6.5	10.5	✓	
Bp145-250	0.15	0.29	60	250	3	1.00	2.5	3.5	6.5	✓	
Bp180-250	0.18	0.54	60	250	10	1.00	18.0	1.4	3.0	✓	
Bp200-250	0.20	0.40	60	250	10	1.00	15.0	3.0	6.0	✓	
Bp400-250	0.40	0.80	60	250	10	1.00	30.0	1.4	3.0	✓	
Bp600-250	0.60	1.20	60	250	10	2.00	10.0	1.0	2.0		
Bp800-250	0.80	1.60	60	250	10	3.00	12.0	0.5	1.0		
BpA01.00-250	1.00	2.00	60	250	10	3.00	40.0	0.4	0.8		
BpA01.50-250	1.50	3.00	60	250	10	4.50	60.0	0.3	0.6		
BpA02.00-250	2.00	4.00	60	250	10	6.00	60.0	0.2	0.4		

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

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

Vmax Operating = Maximum operating voltage (Vdc) device can withstand without damage at rated current.

Vmax Interrupt = Maximum interrupt voltage(Vac) device can withstand without damage at rated current .

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

Rimin/max = Minimum/Maximum device resistance prior to tripping at 25°C

R1max = Maximum device resistance one hour after it is tripped at 25°C.

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

Environmental Specifications

Test	Conditions
Passive aging	+85°C, 1000 hrs.
Humidity aging	+85°C, 85% R.H. , 1000 hrs.
Thermal shock	+125°C to -55°C, 10 times
Resistance to solvent	MIL-STD-202,Method 215F
	MIL-STD-202,Method 201
Ambient operating /storage conditions : - 40 °C to +85 °C	
Maximum surface temperature of the device in the tripped state is 125 °C	

Agency Approvals :



Regulation/Standard:



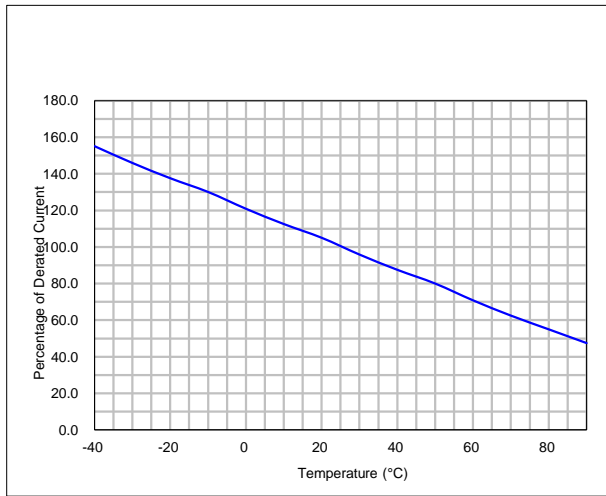
2002/95/EC



EN14582



Thermal Derating Curve



I_{hold} Versus Temperature

Model	Maximum ambient operating temperature (T_{mao}) vs. hold current (I_{hold})								
	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
Bp030-250	0.047	0.041	0.036	0.030	0.026	0.024	0.021	0.019	0.015
Bp040-250	0.062	0.055	0.048	0.040	0.035	0.032	0.028	0.025	0.021
Bp050-250	0.078	0.069	0.060	0.050	0.044	0.040	0.035	0.031	0.026
Bp060-250	0.093	0.083	0.072	0.060	0.053	0.048	0.042	0.038	0.031
Bp080-250	0.124	0.110	0.097	0.080	0.070	0.064	0.057	0.050	0.041
Bp090-250	0.140	0.124	0.109	0.090	0.079	0.072	0.064	0.056	0.046
Bp110-250	0.171	0.151	0.133	0.110	0.096	0.088	0.078	0.069	0.056
Bp120-250	0.186	0.165	0.145	0.120	0.105	0.096	0.085	0.075	0.062
Bp145-250	0.225	0.199	0.175	0.145	0.127	0.116	0.103	0.091	0.074
Bp180-250	0.279	0.248	0.217	0.180	0.158	0.144	0.127	0.113	0.092
Bp200-250	0.310	0.275	0.242	0.200	0.175	0.160	0.142	0.125	0.103
Bp400-250	0.620	0.550	0.483	0.400	0.350	0.320	0.283	0.250	0.205
Bp600-250	0.930	0.825	0.725	0.600	0.525	0.480	0.425	0.375	0.308
Bp800-250	1.240	1.100	0.967	0.800	0.700	0.640	0.567	0.500	0.410
BpA01.00-250	1.550	1.375	1.208	1.000	0.875	0.800	0.708	0.625	0.513
BpA01.50-250	1.860	1.650	1.450	1.200	1.050	0.960	0.850	0.750	0.615
BpA02.00-250	3.100	2.750	2.417	2.000	1.750	1.600	1.417	1.250	1.025

WARNING:

- Use PPTC beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.
- PPTC are intended for protection against occasional over current or over temperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.
- Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components.
- Use PPTC with a large inductance in circuit will generate a circuit voltage ($L di/dt$) above the rated voltage of the PPTC.
- Avoid impact PPTC device its thermal expansion like placed under pressure or installed in limited space.