NEC/Schott SEFUSE thermal cutoffs

Limitor GmbH

Components for temperature, current & time

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SF/E series



RoHS*compliant since april 2003

SF/E series measures 4.2mm in body diameter and is VDE approved 10A + 15A at AC250V

part no.	Tf / TF	opening- temp.	Th / TH	Tmax
SF70E	73C	70+-2C	58C	150C
SF76E	77C	76+0/-4C	62C	150C
SF91E	94C	91+3/-1C	79C	150C
SF96E	99C	96+-2C	84C	150C
SF113E	113C	110+-2C	98C	160C
SF119E	121C	119+-2C	106C	150C
SF129E	133C	129+-2C	118C	159C
SF139E	142C	139+-2C	127C	159C
SF152E	157C	152+-2C	142C	172C
SF169E	172C	169+1/-3C	157C	189C
SF184E	184C	184+0/-4C	174C	210C
SF188E	192C	188+3/-1C	177C	375C
SF214E	216C	214+1/-3C	200C	375C
SF226E	227C	226+1/-3C	200C	300C
SF240E	240C	237+-2C	200C	375C

approval ratings:

VDE: AC250V 10A + 15A resistive load UL: AC120V 20A resistive & 15A inductive load and AC250V 17A & 277V 15A resistive load CSA: AC250V 15A resistive load and inductive load

note: types SF169E, SF188E, SF214E, SF226E, SF240E are approved UL Conductive Heat Aging Test (CHAT).

Thermal cutoffs are required by safety agencies where a nonresettable fuse (one shot) MUST open the electrical circuit in the event of of failure or overheating

The SF/E series carries worldwide approvals such as VDE, UL, CSA, BEAB, PSE (Japan) and is produced in ISO 9001 certified facilities in Japan and Thailand

Contact material inside all SF series of thermal cutoffs is AaCuO.

This material AgCuO is patented wordwide for use in thermal cutoffs and provides superior performance and prevents sticking together of contacts. This is an important safety and reliability issue for customers using DC current in automotive applications and AC current in the electrical appliance industry

lead wire length: SF/E: 20/35mm SF/E-1: 35/35mm

tape & reel version available.

lead wire forming and cutting available.

SF/K series



RoHS-compliant Thermal cutoffs are since start of massproduction in 2003

SF/K series measures 3.0mm in body diameter and is VDE approved 6A + 10A at AC250V

part no.	Tf / TF	opening- temp.	Th / TH	Tmax
SF70K	73C	70+-2C	45C	150C
SF76K	77C	76+0/-4C	51C	150C
SF91K	94C	91+3-1C	66C	150C
SF96K	99C	96+-2C	71C	150C
SF119K	121C	119+-2C	94C	150C
SF188K	192C	188+3/-1C	164C	300C
SF214K	216C	214+1/-3C	200C	300C

approval ratings:

VDE: AC250V 6A + 10A resistive load UL: AC250V 6A + 10A resistive load c-UL: AC250V 6A + 10A resistive load note: type SF188K is approved UL Conductive Heat Aging Test (CHAT).

definition of terms, according to IEC691, VDE0821, EN60691 norm for thermal cutoffs:

- Tf/TF = functioning, opening temperature
- opening temperature with tolerance, given by the manufacturer
- Th/TH = holding temperature, max, continuous exposure temperature (in actual application at point of installation of thermal cutoff). Tested for 168h.
- Tmax (or Tm/TM) = maximum overshoot temp., up to which the function of the thermal cutoff will not be impaired or altered. No reconduction to occur.

typical applications for SF/E & SF/K series: coffeemakers, irons, large and small electrical appliances and heating elements. transformers, motors, heaterblowers and airconditioners in cars. Transistors of electronic circuits and so on.

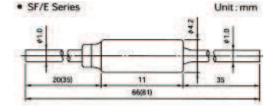
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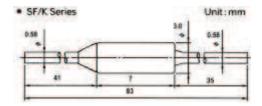
The SF/K series carries worldwide approvals such as VDE, UL, c-UL, CSA, BEAB, PSE (Japan) and is produced in ISO 9001 certified facilities.

*WEEE waste electronical electronic equipment. RoHS: restriction on the use of certain hazardous chemical substances. Target substances are: lead (PB), mercury (Hg), cadmium (Cd), chromium <VI> PBB and PBDE.

Contact material inside all SF series of thermal cutoffs is AgCuO. This material is patented wordwide for use in thermal cutoffs and provides superior performance and prevents sticking together of contacts. This is an important safety and reliability issue for customers using DC current in automotive applications and AC current in the electrical appliance industry

lead wire length: SF/K: 41/35mm tape & reel version





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