

Handling Precautions Fuse Links (F)

To ensure safe use, be sure to read these precautions together with the general precautions and the precautions for fuse holders.

Feel free to contact the Customer Service Center if you have any questions.

Precautions for Use

- According to the Electrical Appliance and Material Safety Act, fuse links of 1A or more that are used for equipment sold in Japan must be certified with a Conformity Assessment Certificate. (Fuses of less than 1A and DC fuses are exempt)
- Fuse links are classified into three types according to application: normal-blow types, time-lag types, and fast-acting types.
Normal-blow types are used for general devices such as communication equipment, time-lag types are used for motors and circuits that generate a surge current, etc., and fast-acting types are used for protecting semiconductors, etc.
All of our company's fuse links are normal-blow types (Type B).
Each of them has different pre-arcing time-current characteristics, so choose the appropriate one depending on the load of the circuit you are using.

Normal-blow types pre-arcing time-current characteristics

Type A.....Non fusing when 110% energized.

Fusing within 1 hour when 135% energized.

Fusing within 2 minutes when 200% energized.

Type B.....Non fusing when 130% energized.

Fusing within 1 hour when 160% energized.

Fusing within 2 minutes when 200% energized.

Time-lag types pre-arcing time-current characteristics

Type A.....Non fusing when 110% energized.

Fusing within 1 hour when 135% energized.

Fusing within 6 seconds when 300% energized.

Type B.....Non fusing when 11% energized.

Fusing within 1 hour when 135% energized.

Fusing within 3 seconds when 300% energized.

Fast-acting types pre-arcing time-current characteristics

Type A.....Non fusing when 110% energized.

Fusing within 1 hour when 135% energized.

Fusing within 1 second when 250% energized.

Type B.....Non fusing when 110% energized.

Fusing within 6 minutes when 135% energized.

Fusing within 0.5 seconds when 200% energized.

- When selecting a fuse link, it is necessary to consider current characteristics such as inrush and pulse, but generally, the fuse link rated current should be about 1.5 times or more of the steady current of the circuit.
e.g. : When the steady current of the circuit is 7 A, use a fuse link with a rated current of 10 A.
- The pre-arcing time-current characteristics of fuses at 25° C are shown here. Also, the values are the results obtained when the fuses are set in a specified holder. Conditions differ when actually mounted in a fuse holder. Note that the pre-arcing time may become shorter at high temperature.
- Before use, carefully check the operation of the product by conducting an energization test and short circuit test after it is mounted on equipment.
- Use products indoors.