

FEATURES

- Three types are available for choice according to the installation method.
- Compact and light-weight, also excellent for prompt cut-off action when blocking off.
- Most suitable for small inverters, servos, UPSs, power supplies, etc.
- Compliant with various standards.
- A 10-mm- ϕ fuse is compliant to the 50A class.

RATING

• Rating 5 to 30 A

Rated voltage and breaking capacity : 660V AC-10kA, 660V DC (L/R = 10ms)-10kA

Minimum breaking current : 660V AC/DC – 4 times the rated amperage

Maximum arc voltage : 1320V

• Rating 35 to 60 A

Rated voltage and breaking capacity : 660V AC-10kA, 660V DC (L/R = 10ms)-10kA

Minimum breaking current : 660V AC – 4 times the rated amperage

660V DC – 20 times the rated amperage

570V DC – 8 times the rated amperage

CAUTION!

- Read "FOR SAFE USE" and "PROTECT FUSE USER'S GUIDE" at the back of this catalog before use.
- A small fuse may generate a relatively large amount of heat, so a fuse with sufficient capacity is recommended for long, continuous use.
- Fusing indication function is not provided.

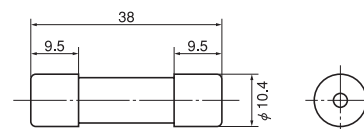
Specifications

Type	Rated Amperage (A)	Fusing I^2t (A ² S)	Shutdown I^2t (A ² S) at AC660V 10KA	Power Loss (W)	Weight (g)	Fig	Standard Approved
660CF-5UL	5	2	18	0.8	CF= 8.5 KH= 12.5 KHK= 10.5	CF= Fig 1 KH= Fig 2 KHK= Fig 3	
660KH-5UL				0.9			
660KHK05UL				0.9			
660CF-10UL	10	6	55	1.3			
660KH-10UL				1.3			
660KHK10UL				1.5			
660CF-15UL	15	12	110	3.0			
660KH-15UL				3.0			
660KHK15UL				3.0			
660CF-20UL	20	25	210	4.5			
660KH-20UL				4.5			
660KHK20UL				5.5			
660CF-25UL	25	43	340	5.0			
660KH-25UL				6.1			
660KHK25UL				6.1			
660CF-30UL	30	67	500	5.5			
660KH-30UL				5.5			
660KHK30UL				7.0			
660CF-35UL	35	99	730	5.1			
660KH-35UL				6.5			
660KHK35UL				6.5			
660CF-40UL	40	177	1300	5.3			
660KH-40UL				5.3			
660KHK40UL				7.2			
660CF-50UL	50	264	1950	7.4			
660KH-50UL				11.3			
660KHK50UL				11.3			
660CF-60UL	60	314	2300	9.8			
660KH-60UL				9.8			
660KHK60UL				16.5			

Ta=25°C

Dimensions

Fig 1
660CF



Fuse Holder HK1038
(for 660CF) refer to p. 30

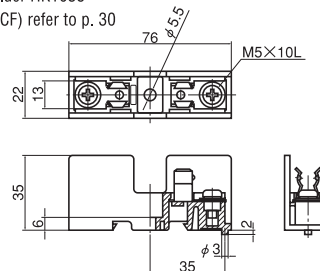


Fig 2
660KH

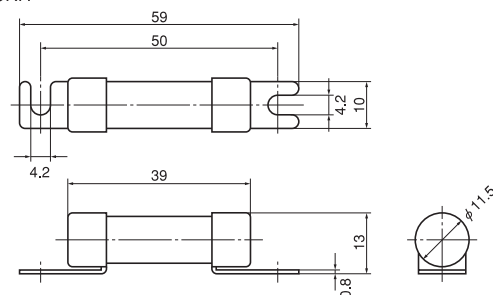
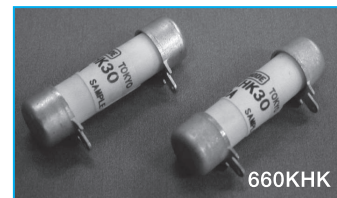
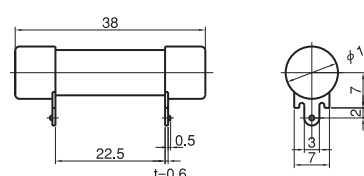


Fig 3
660KHK



UL/cUL standard approved rating

When applying the standard to UL standard approved items, use the fuse in the following rating.

• Rating 5 to 30 A

Rated voltage and breaking capacity: Same as the standard rating.

• Rating 35 to 60 A

Rated voltage and breaking capacity : 660V AC-10kA, 570V DC (L/R = 10ms)-10kA

*1 660KH/KHK are not cUL approved.

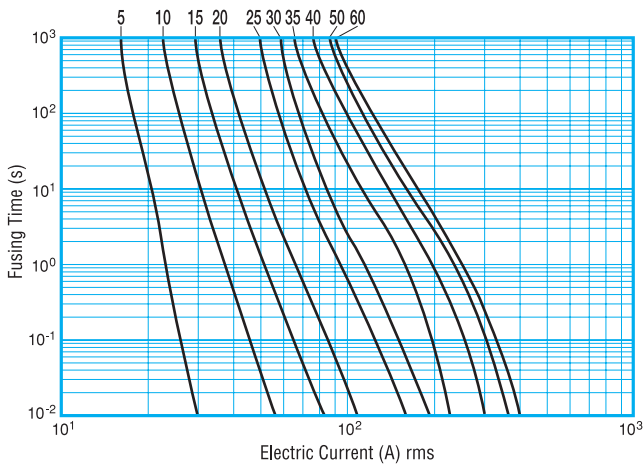
CCC standard approved rating

When applying the standard to CCC standard approved items, use the fuse in the following rating.

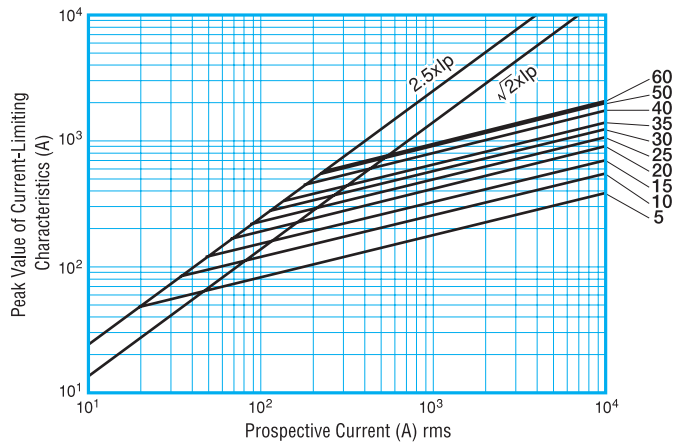
*2 The CCC standard is an option. Enter "TC" at the end of product name when ordering (e.g., 660KH-30ULTC).

Rated voltage and breaking capacity : 660V AC-10kA, 450V DC (L/R = 15ms)-10kA

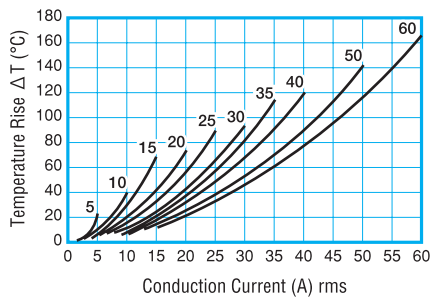
Fusing Characteristics



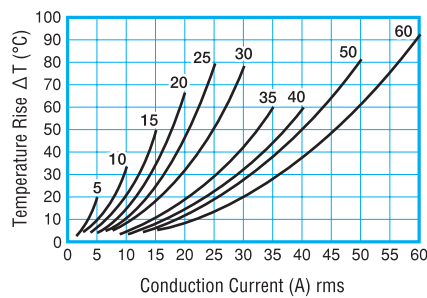
Current-Limiting Characteristics



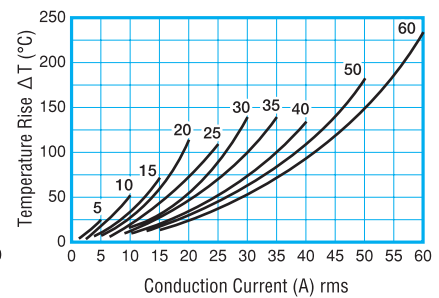
Temperature Rise CF



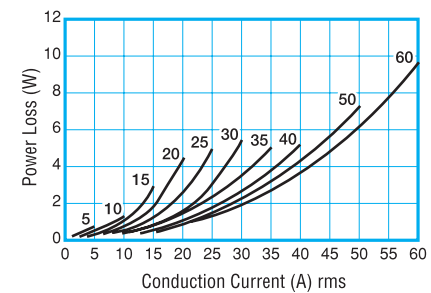
KH



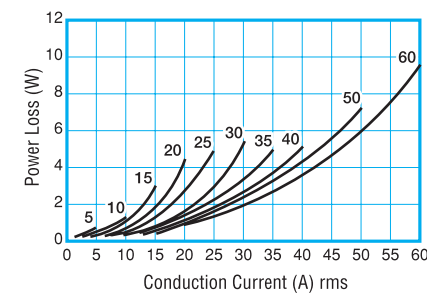
KHK



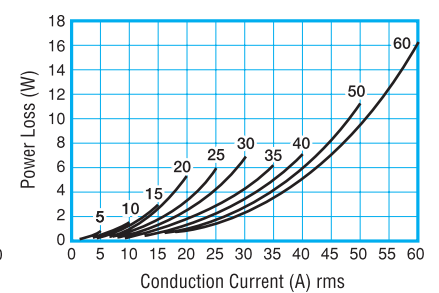
Power Loss CF



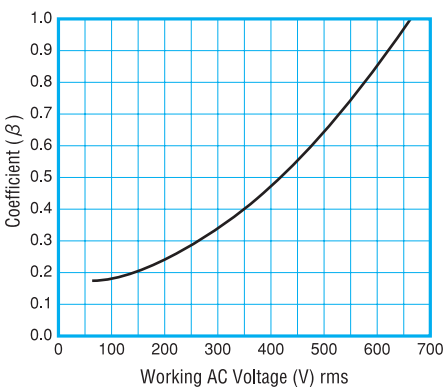
KH



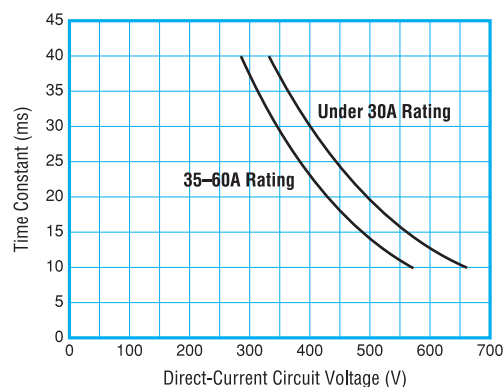
KHK



Shutdown I_t Against Working AC Voltage



Application to Direct-Current Circuit



Power Loss and Temperature Characteristics

• Testing Conditions for Board-Soldered-Type Fuses

The power loss and the temperature characteristics are studied using an FR-4 board (one-side board) and a 35- μ m-thick copper foil with a copper foil width of 0.5 mm/A depending on the rated amperage (e.g., 5 mm width for a product rated at 10A).