

660CF/KH/KHK

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 to all types of standards.
- A 10-mm- ϕ fuse is compliant to the 50 A class.

RATING

● Rating 5 - 60 A

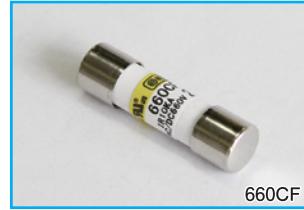
Rated voltage and blocking capacity : 660V AC-10kA, 660V DC (L/R = 10ms)-10kA

Minimum block-off current : 660V AC - 6 times the rated amperage
660V DC - 20 times the rated amperage
570V DC - 8 times the rated amperage

Maximum arc voltage : 1320V

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.



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UL/cUL standard approved rating

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

● Rating 5 - 30 A

Rated voltage and blocking capacity : Same as the standard rating

● Rating 35 - 60 A

Rated voltage and blocking capacity : 660V AC-10kA, 570V DC (L/R = 2ms)-10kA
(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.

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

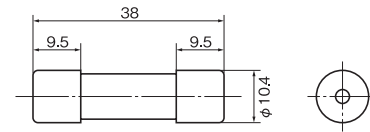
Rated voltage and blocking capacity : 660V AC-10kA, 450V DC (L/R = 10ms)-10kA

Specifications

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

Dimensions

Fig 1
660CF



Fuse Holder HK 1038
(for 660CF) refer to p. 34

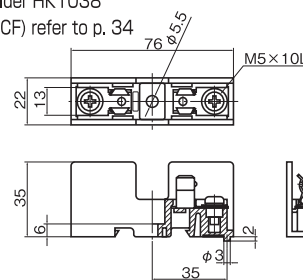


Fig 2
660KH

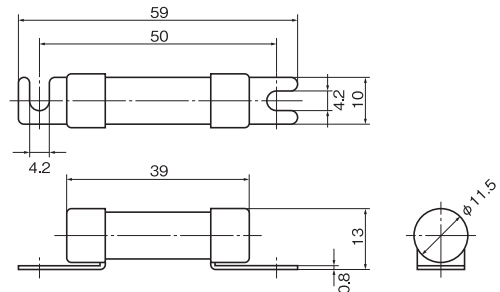
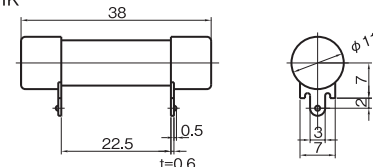
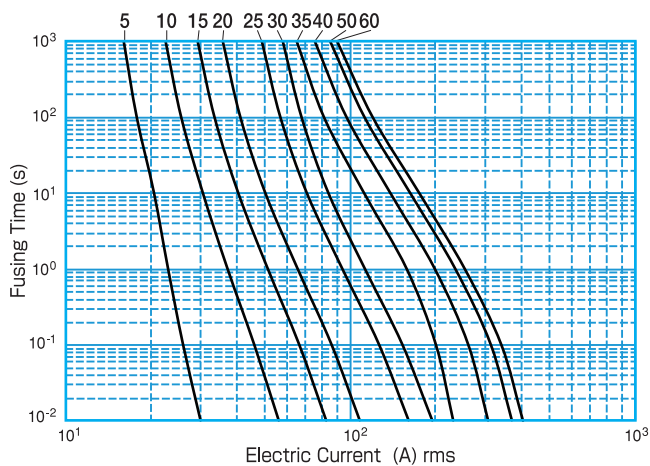


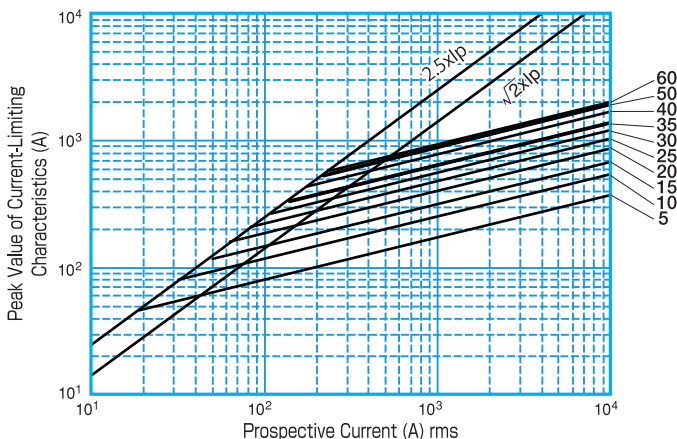
Fig 3
660KHK



Fusing Characteristics



Current-Limiting Characteristics

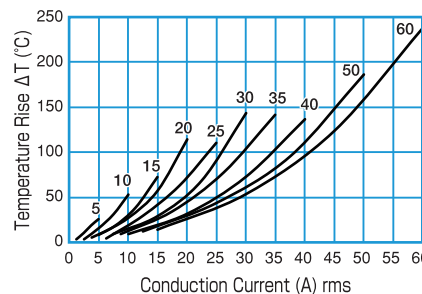
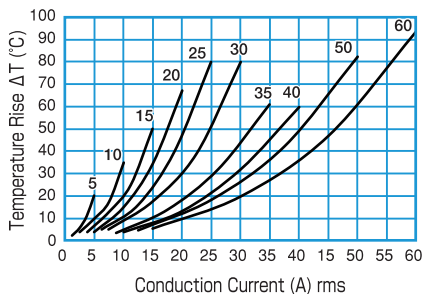
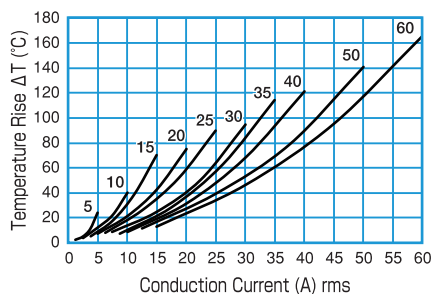


Temperature Rise

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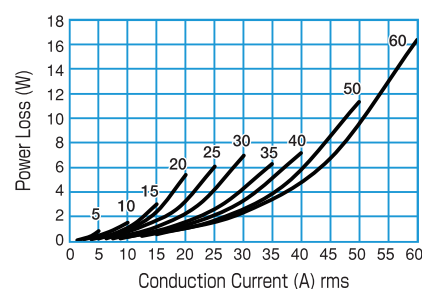
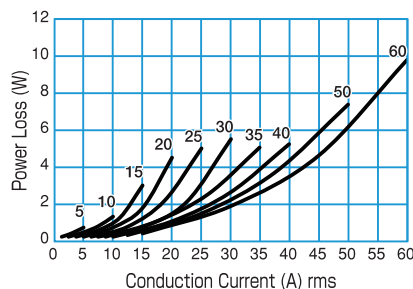
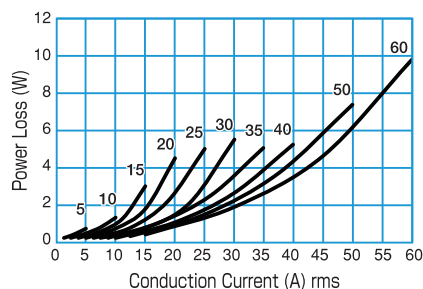


Power Loss

CF

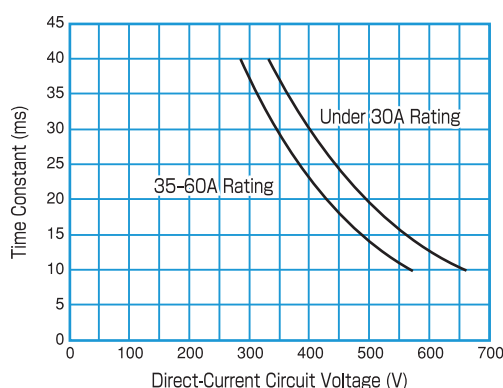
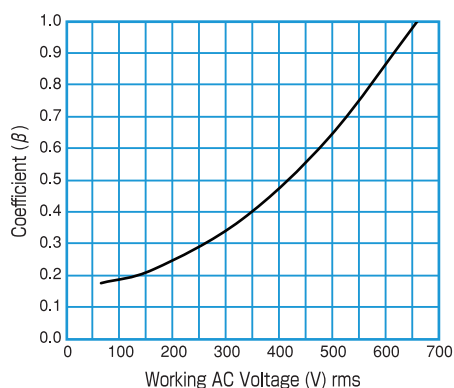
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Shutdown I^2t Against Working AC Voltage

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).