

660CF/KH/KHK

FEATURES

- Three types are available for choice according to the installation method.
- Most suitable for small inverters, servos, UPSs, power supplies, etc.
- A 10-mm- ϕ fuse is compliant to the 60 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.



660CF



660CF/KH/KHK



660KH



660KHK

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.

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

Specifications

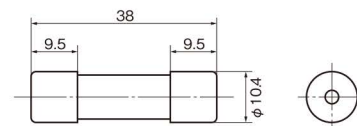
Type	Rated Amperage (A)	Fusing I ² t (A ² S)	Shutdown I ² t (A ² S) at AC660V 10kA	Power Loss (W)	Weight (g)	Fig	Standard Approved	Option
660CF-5	5	2	30	0.8				
660KH-5				0.9				
660KHK05				0.9				
660CF-10	10	6	80	1.3				
660KH-10				1.5				
660KHK10				1.5				
660CF-15	15	12	170	3.0				
660KH-15				3.0				
660KHK15				3.0				
660CF-20	20	25	220	4.5				
660KH-20				5.5				
660KHK20				5.5				
660CF-25	25	43	490	5.0		CF= 10.2 Fig 1	Holder HK1038 HK1038UL	
660KH-25				6.1				
660KHK25				6.1				
660CF-30	30	67	660	5.5		KH= 12.5 Fig 2	Cover HC-10	
660KH-30				7.0				
660KHK30				7.0				
660CF-35	35	99	1130	5.1		KHK= 10.5 Fig 3	Clip C-10CF *1*2	
660KH-35				6.5				
660KHK35				6.5				
660CF-40	40	177	1780	6.2				
660KH-40				7.2				
660KHK40				7.2				
660CF-50	50	264	2570	9.1				
660KH-50				11.3				
660KHK50				11.3				
660CF-60	60	314	2980	12.1				
660KH-60				12.1				
660KHK60				12.3				

*1 It is not fit for series KH/KHK.

*2 Continuous energizing current:30A.

Dimensions

Fig 1
660CF



Fuse Holder HK1038
(for 660CF) refer to p. 34

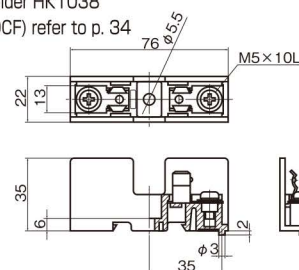


Fig 2
660K H

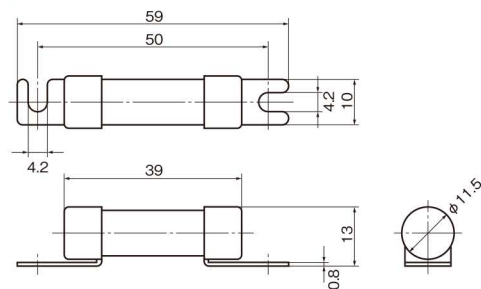
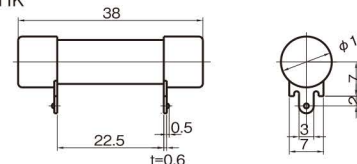
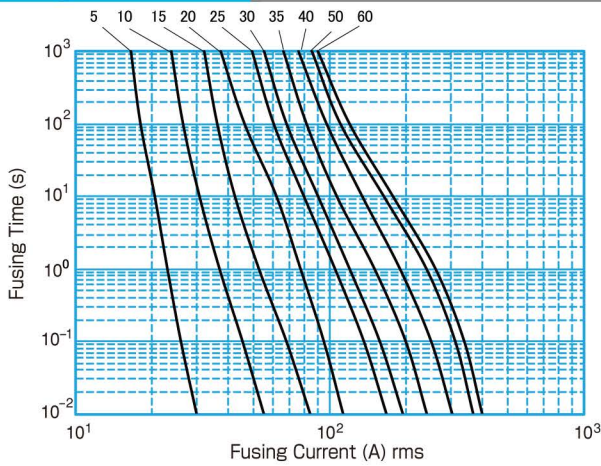


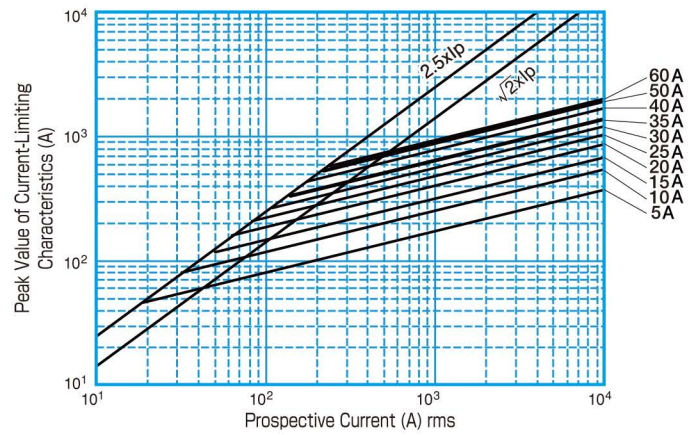
Fig 3
660KHK



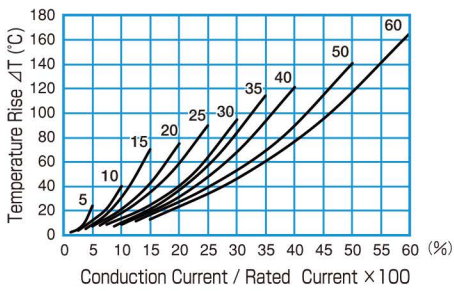
Fusing Characteristics



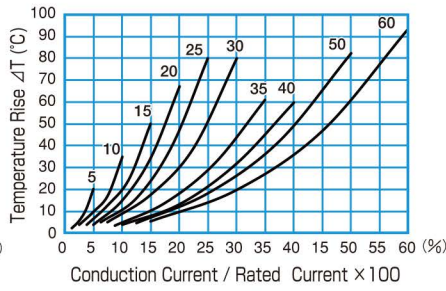
Current-Limiting Characteristics



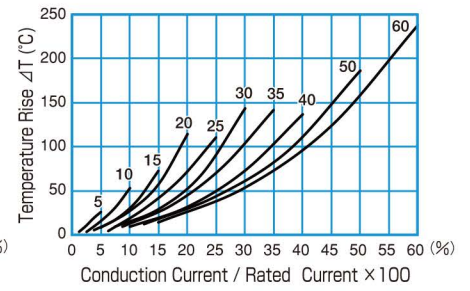
Temperature Rise CF



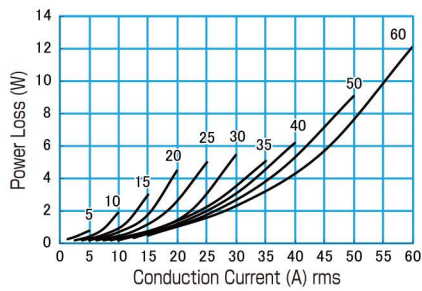
KH



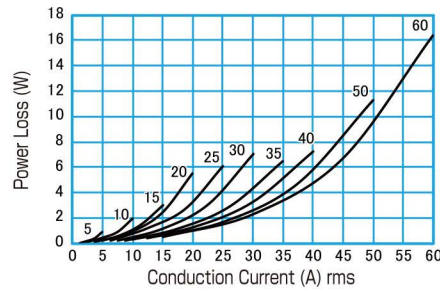
KHK



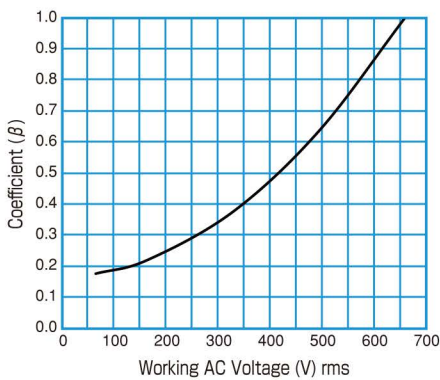
Power Loss CF/KH



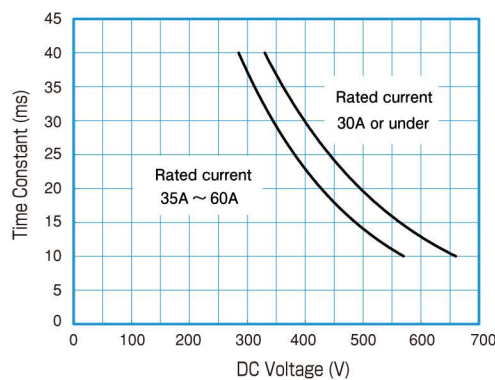
KHK



Shutdown I²t 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).