

ОСНОВНЫЕ ТИПЫ ПРЕДОХРАНИТЕЛЕЙ



Японская компания HINODE Electric Co. Ltd занимается производством и продажей быстродействующих предохранителей различных типоразмеров с 1974 года.

На сегодняшний день в каталоге HINODE более 20-ти серий и около 500 типов плавких предохранителей с различными номиналами для защиты цепей полупроводниковых приборов, инверторов, источников питания и UPS, работающих на рынках Юго-Восточной Азии, Америки и Европы.

HINODE также занимается разработкой и производством продуктов по специальным требованиям и спецификациям.

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!

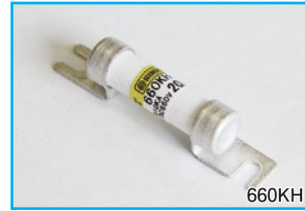
- Read "FOR SAFE USE" and "PROTECT FUSE USER'S GUIDE" at the back of this catalog before use.
- A small fuse may generate a relatively large amount of heat, so a fuse with sufficient capacity is recommended for long, continuous use.
- Fusing indication function is not provided.



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.

*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

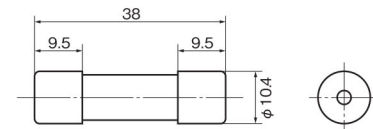
Specifications

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

Ta=25°C

Dimensions

Fig 1
660CF



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

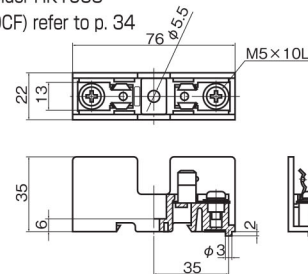


Fig 2
660KH

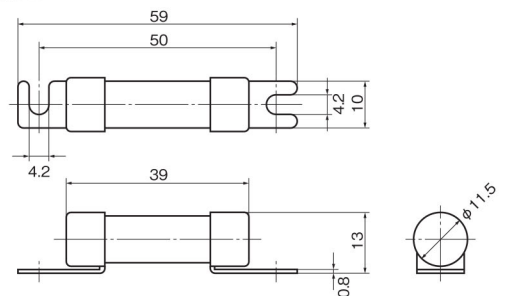


Fig 3
660KHK

600SPF

FEATURES

- Large capacity, 1750A
- Square type; capable of being connected with copper bars
- Standard model equipped with function to indicate fusing
- Microswitch can be installed (optional)

RATING

Rated voltage and blocking capacity : 600V AC-100kA
450V DC (L/R = 3ms)-100kA
Minimum block-off current : 600V AC/450V DC - 5 times the rated amperage
Maximum arc voltage : 1200V



UL standard approved rating

Rated voltage and blocking capacity : Same as the standard rating

CAUTION!

- Read "PROTECT FUSE USER'S GUIDE" and "FOR SAFE USE" at the back of this catalog before use.
- The minimum working voltage of the fusing indication function is 10V.

Specifications

Dimensions

Standard Model

Ta=25°C

Type	Rated Amperage (A)	Fusing I²t (×10³A²S)	Shutdown I²t (×10³A²S) at AC600V 100KA	Power Loss (W)	Dimensions (mm)					Weight (g)	Fig	Standard Approved
					A	B	C	D	M			
600SPF80S	80	0.5	3.5	13	A1=30 A2=43	53	27	50	M8 Depth 8	210	1	—
600SPF100S	100	0.8	6.5	16								
600SPF125S	125	1.2	9.5	17								
600SPF160S	160	1.8	14.5	21								
600SPF200S	200	3.1	25.0	30								
600SPF250S	250	4.8	38.0	35	51	53	38	61	M10 Depth 10	420		
600SPF315S	315	7.0	56.0	40								
600SPF350S	350	12.5	100.0	47								
600SPF400S	400	16.0	140.0	55								
600SPF500S	500	24.0	205.0	60								
600SPF600S	600	33.0	290.0	70	60	53	43	66	M12 Depth 12	630		
600SPF630S	630	44.0	400.0	85								
600SPF700S	700	56.0	535.0	95								
600SPF800S	800	70.0	670.0	110								
600SPF900S	900	94.0	900.0	115								
600SPF1000S	1000	111.0	1060.0	135	75	53	51	75	M12 Depth 12	1010		
600SPF1250P1S	1250	174.0	1580.0	180								
600SPF1500PS	1500	280.0	2700.0	200								
600SPF1750PS	1750	450.0	4500.0	250								
					100	58	63	87		1830		
					75	73	51	75		2430	2	
					75	73	51	75		3700	3	
					100	78	63	87		5200	3	

UL Approved Model

Type	Rated Amperage (A)	Fusing I²t (×10³A²S)	Shutdown I²t (×10³A²S) at AC600V 100KA	Power Loss (W)	Dimensions (mm)					Weight (g)	Fig	Standard Approved
					A	B	C	D	M			
600SPF100SUL	100	0.8	6.5	16	A1=30 A2=43	53	27	50	M8 Depth 8	210	1	
600SPF125SUL	125	1.2	9.5	17								
600SPF160SUL	160	1.8	14.5	21								
600SPF200SUL	200	3.1	25.0	30								
600SPF250SUL	250	4.8	38.0	35								
600SPF315SUL	315	7.0	56.0	40	51	53	38	61	M8 Depth 8	420		
600SPF350SUL	350	12.5	100.0	47								
600SPF400SUL	400	16.0	140.0	55								
600SPF500SUL	500	24.0	205.0	60								
600SPF600SUL	600	33.0	290.0	70								
600SPF630SUL	630	44.0	400.0	85	60	53	43	66	M10 Depth10	630		
600SPF700SUL	700	56.0	535.0	95								
600SPF800SUL	800	70.0	670.0	110								
600SPF900SUL	900	94.0	900.0	115								
600SPF1000SUL	1000	111.0	1060.0	135								
					75	53	51	75	M12 Depth12	1010		
					100	58	63	87		1830		

Fig 1

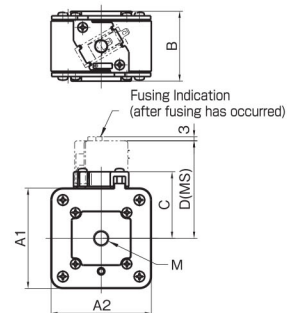


Fig 2

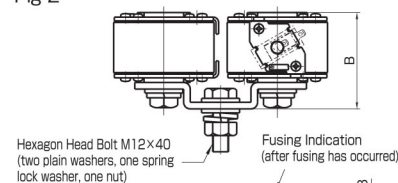
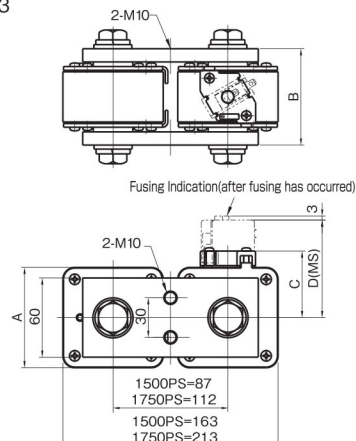


Fig 3



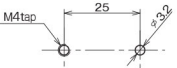
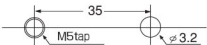
OPTIONS

FUSE HOLDERS

◆ For cylindrical fuses

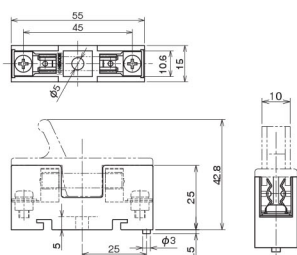


Specifications

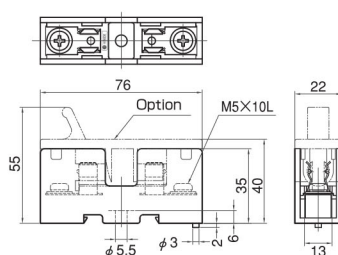
	HK0631	HK1038/HK1038UL	HK1551
Rated Voltage	500V	700V	800V
Rated Amperage*1	15A	30A	40A
Applicable Wires	Up to 5.5mm ² (M4)	Up to 8mm ² (M5)	Up to 14mm ² (M5)
Installation	DIN rails and direct installation	DIN rails and direct installation	DIN rails and direct installation
Applicable fuses	φ6.4×31 (Our product 250SF/500SF Series*2)	JIS MF01 [φ10.3×38.1] (Our product 660CF Series*2)	JIS CF2 [φ15×51mm] (Our product 700CF/800CF Series*2)
Material	PBT	PBT	PBT
Name of UL Approved Product	—	HK1038UL 	—
Options	Fuse holder cover HC-06	Fuse holder cover HC-10	Fuse holder cover HC-15
Installing Hole Size			

Dimensions

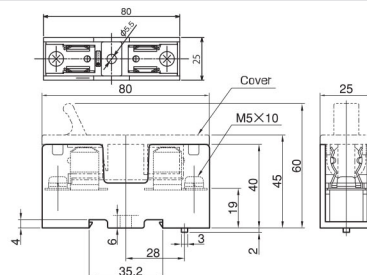
HK0631



HK1038/HK1038UL



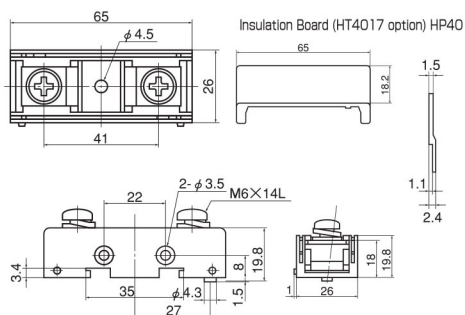
HK1551



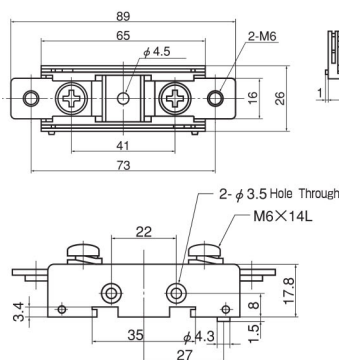
◆ For screwing type fuses

Specifications/Dimensions

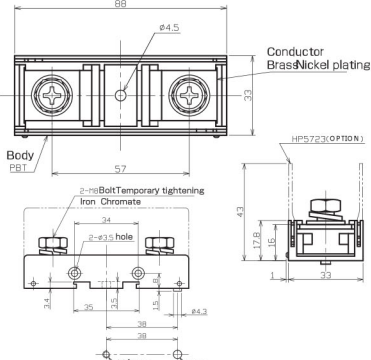
HT4017



HT4017T2



HT5723



● Specifications

Rated voltage	400V	Applicable fuses	Our product 250FH-20 to 60
Rated amperage	75A*1		250GH-20 to 125*2
Applicable wires	Up to 22mm ² (M6)		350GH-16 to 100*2
Installation	DIN rails and direct installation	Material	PBT
Installing hole size		Option	Dashboard HP40 (one can be installed on each side.)

Rated voltage	400V	Applicable fuses	Our product 350GH-125 to 200
Rated amperage	100A*1		250GH-160 to 250*2
Applicable wires	Up to 38mm ² (M8)	Material	PBT
Installation	DIN rails and direct installation		

*1 Can be left continuously turned on for long durations. *2 Use at voltage and current values lower than rated voltage and rated current of fuse holder.