

GFEV7 Series Semiconductor fuse



1. Purpose and use

This series of fuses are suitable for breaking 50kA at rated DC /AC voltage up to 750V (700V) and 600A. They are used as the comprehensive protection of on-board battery, new energy vehicle charging post, on-board line system and inverter. At the same time, they have the characteristics of strong current limiting capacity, high breaking capacity, fast short-circuit breaking speed, and can withstand temperature shock, mechanical vibration / shock, current shock and chemical load. This series of products meet the requirements of IEC 60269-4, GB/T 13539.4, UL 248-13.

2. Normal working conditions

Ambient temperature

Normal use conditions: - 5 °C ~ 40 °C; allowable use conditions: - 40 °C ~ +125°C;

When the fuse operates at a temperature above 40 °C, the rated current needs additional correction, and the correction factor - KT refers to the guide manual;

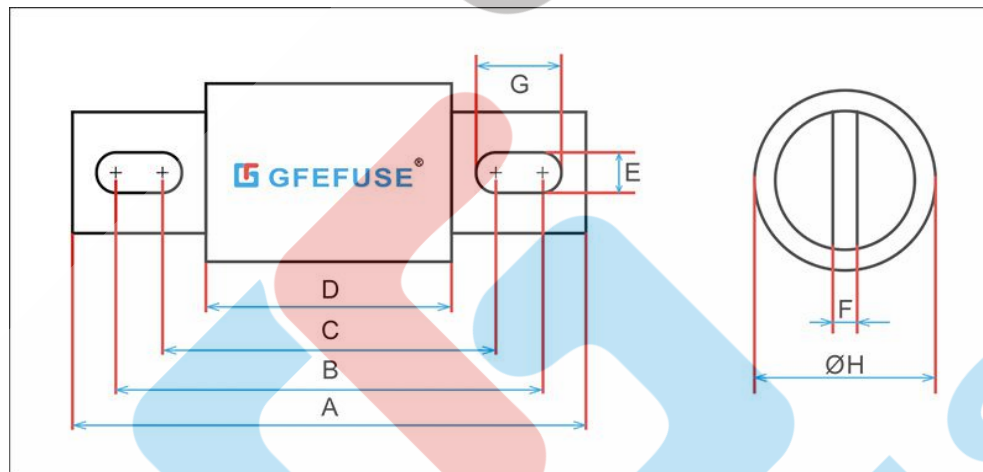
3. Use category

“aR,” Fast fuse for full range protection.

4. Structural characteristics

The melting tube of the product is made of special materials with high temperature resistance, with high fire resistance and strong hardness. The melt is sealed in the melting tube with variable cross-section melt made of 99.99% pure silver. The melting tube is filled with high-purity quartz sand and special treated chemicals as arc extinguishing medium. The contact surface is silver plated to ensure reliable electrical performance, greatly reducing temperature rise and power consumption; Both ends of the melt are firmly connected with the contact by spot welding, which greatly enhances the safety and reliability of breaking short circuit fault current.

5. Main parameters



Product model	Rated voltage (V)	Rated current (A)	Overall dimension / size (mm)							
			A \pm 2.0	B \pm 1.5	C \pm 1.0	D \pm 2.0	E \pm 0.5	F \pm 1.5	G \pm 2.0	ϕ H \pm 1
GFEV7	700V 750V	35A-60A	110	95	85	70	8.7	3.5	14	21
		70A-100A	110	92	91	66	8.7	3.5	9.5	24.5
		125A-250A	129	106	89	72	10.5	6	19	38
		300A-400A	129	109	90	72	10.5	6	20	51
		450A-600A	180	145	107	72	13.5	10	33	63.5
		700A-800A	169	142	129	72	16	6.5	22.5	51

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7. Product parameter data sheet

NO	Rated current (A)	I ² T(A ² S)		power waste (W)	Rated voltage (V)	model
		Fore arc	Fusing			
1	35	34	180	12	700V/750V	GFEV7035
2	40	76	350	12.5	700V/750V	GFEV7040
3	50	135	660	13	700V/750V	GFEV7050
4	60	215	990	15	700V/750V	GFEV7060
5	70	310	2200	18	700V/750V	GFEV7070
6	80	370	2600	21	700V/750V	GFEV7080
7	100	540	3610	27	700V/750V	GFEV7100
8	125	1850	7450	28	700V/750V	GFEV7125
9	150	2900	11700	32	700V/750V	GFEV7150
10	200	5600	22500	43	700V/750V	GFEV7200
11	250	10500	42800	48	700V/750V	GFEV7250
12	300	17800	71500	58	700V/750V	GFEV7300
13	350	23700	95800	65	700V/750V	GFEV7350
14	400	31500	125300	78	700V/750V	GFEV7400
15	450	36650	137300	95	700V/750V	GFEV7450
16	500	45200	172000	108	700V/750V	GFEV7500
17	600	66700	253000	122	700V/750V	GFEV7600
18	700	54000	320000	125	700V/750V	GFEV7700
19	800	78500	453000	140	700V/750V	GFEV7800

8: characteristic curve

