

Electric vehicle auxiliary fuses

500VAC/DC, 10A ~ 50A

Description 描述

- General purpose fuse for EV/HEV 用于纯电动汽车和混合动力汽车的全范围分断熔断器
- Compact bolt down and thru-hole terminals 紧凑型螺栓及焊接端子
- 500Vdc ideal for EV or HEV application 专为纯电动汽车和混合动力汽车设计的 500V 直流熔断器
- Excellent DC performance 卓越的直流分断能力
- Design refer to JASO D622:2006 设计参考 JASO D622:2006

Electrical Characteristics		
% of Ampere Rating (A)	Operating Time (Unit: s)	
	Min	Max
200%	1	300
300%	0.2	30
500%	0.1	10

Specifications 电气特性 ('YY' means Assembly code /'YY'代表安装方式代码)

Ordering P/N 订购料号	Rated Current (A) 额定电流	Rated Voltage/ Interrupting rating 额定电压下分断	Typical cold resistance 冷电阻典型值 (mOhms)	Typical voltage drop 压降典型值 (mV)		Typical pre-arcing I ² t 弧前 I ² t 典型值 (A ² sec)
				At 0.5I _n	At 1.0I _n	
HV150-10YY	10	500Vac/10000A 500Vdc/20000A	12	60	150	120
HV150-15YY	15		7.2	60	140	350
HV150-16YY	16		7.18	60	145	410
HV150-20YY	20		5.1	60	130	1000
HV150-25YY	25		4.25	60	135	1350
HV150-30YY	30		3.15	50	130	1400
HV150-32YY	32		3.10	50	128	1450
HV150-35YY	35		2.80	50	125	1200
HV150-40YY	40		2.40	50	122	2000
HV150-50YY	50		1.50	50	110	2500

*Temperature Rise 温升: <=50K with 70% of rated current [70%额定电流下小于等于 50K]

** Typical pre-arcing I²t measured at 10I_n [弧前 I²t 典型值在 10 倍电流下测得]

Note:

Consult manufacturer for other ratings;

Specifications subject to change without notice.

DC Fuse for EV/HEV

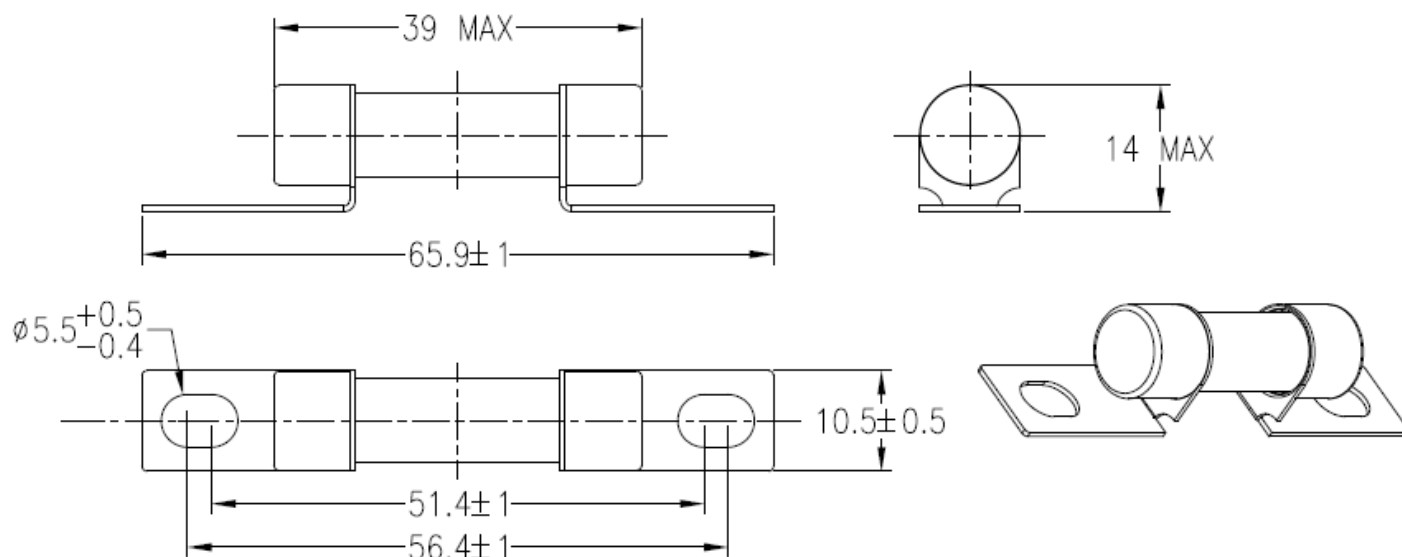
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Dimension (mm)尺寸

Assembly Code 'EP'/Ordering code "HV150-xxEP"

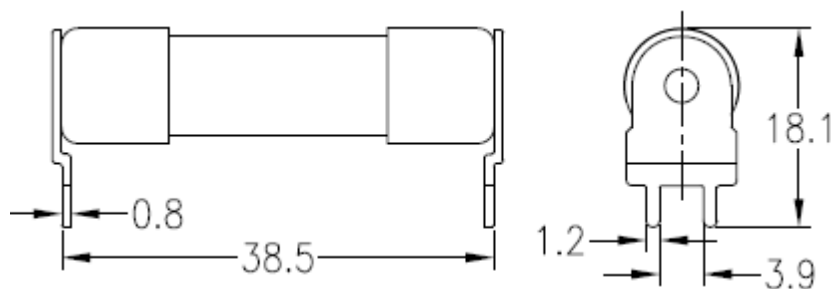
螺栓安装方式'EP'/订货编码" HV150-xxEP"



Note: recommend tightening torque is 4.5+/-1.0Nm; 推荐紧固扭矩为 4.5+/-1.0Nm

Assembly Code 'FP' /Ordering code "HV150-xxFP";

PCB 引脚通孔焊接方式'FP' /订货编码" HV150-xxFP"



Soldering Parameter:

- Wave soldering:
Solder Pot Temperature: 270°C Max.
Solder Dwell Time: 10s Max.
- Hand-Soldering (not recommended):
Solder Iron Temperature: 350°C +/- 5°C
Heating Time: 5s Max.

Marking 标印

管体印字内容及说明:

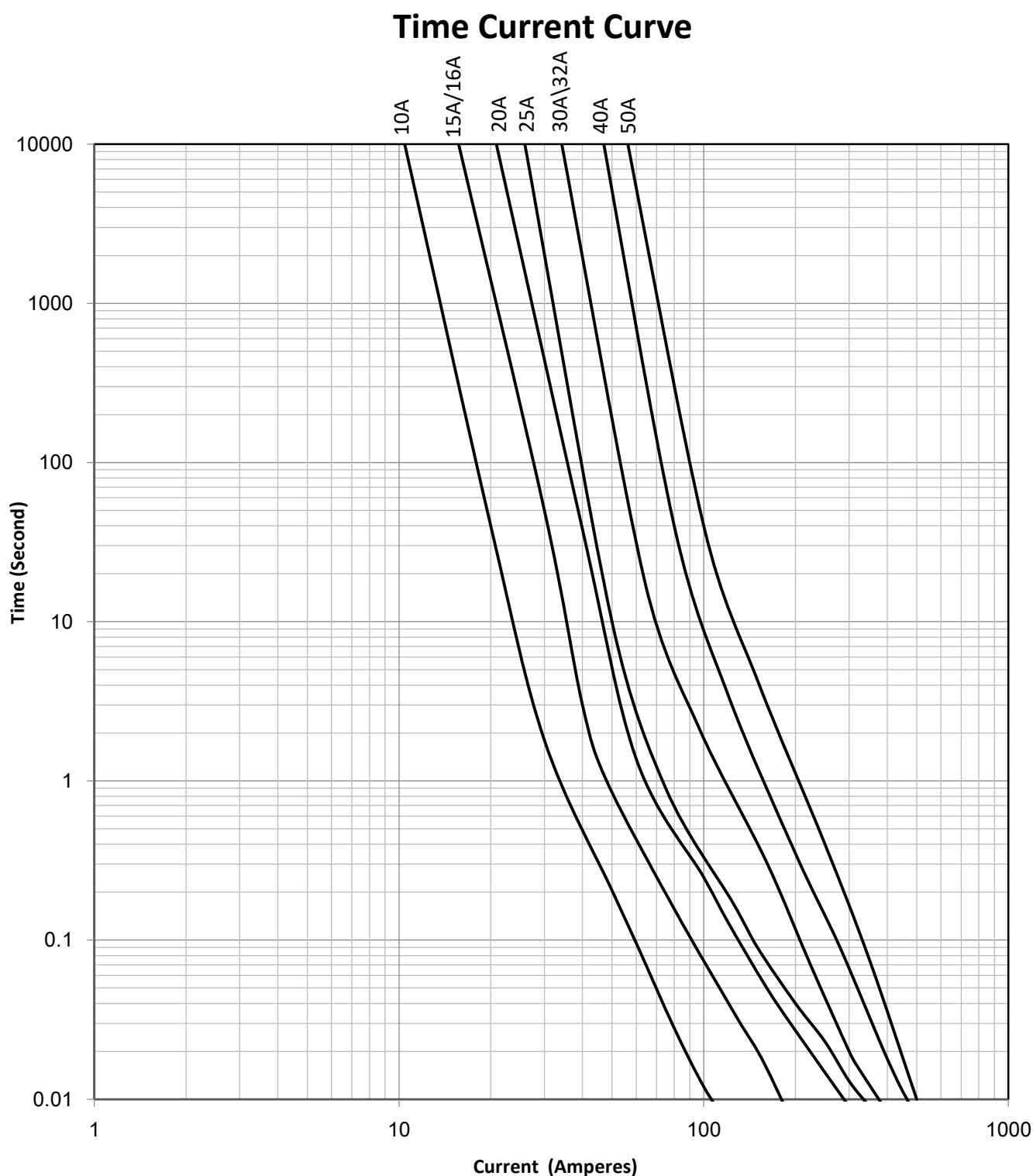
注:对印字的字体/大小和位置没有规定

ASTM ———> 制造商名称
HV150-30 ———> 产品系列+电流代码
500Vdc 30A ———> 额定电压 额定电流

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Time-Current Curve 时间电流曲线



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Transportation and Storage 运输与储存

During transportation and storage, should avoid water seepage and mechanical damage 运输与储存期间,应避免雨雪侵蚀和机械损伤.

Conditions for operation in service 工作条件

Where the following conditions apply, fuses complying with this standard are deemed capable of operating satisfactorily without further qualification.

- Normal temperature: -5°C to 40°C ;
- The altitude of the site of installation of the fuses does not exceed 2 000 m above sea level;
- The air is clean and its relative humidity does not exceed 50% at the maximum temperature of 40°C ;
- Higher relative humidities are permitted at lower temperatures, e.g. 90 % at 20°C ;
- Under these conditions, moderate condensation may occasionally occur due to variation in temperature.

For operation condition **other than** above, please contact manufacturer.

在以下条件下使用,熔断器认为能正常工作,不需要进一步验证:

- 周围空气温度: -5°C to 40°C ;
- 安装地点的海拔不超过2000米;
- 空气是干净的,其相对湿度在最高温度为 40°C 时不超过50%;
- 在较低温度下可以有较高的相对湿度,例如,在 20°C 时,相对湿度可达90%;
- 在这些条件下,由于温度变化,可能偶然发生中等凝露.

如果使用条件**超出**以上范围,请咨询制造商以确认相应的折减计算.

Vibration 震动条件

Meet JASO D622:2006 Section 6.3.3 Vibration durability test requirement, can be use on Electrical Vehicle application;

符合JASO D622:2006章节6.3.3的震动测试要求,可用于一般电动汽车应用.

Temperature Rerating Curve 温度调额曲线

Operating Temperature: -40°C to $+125^{\circ}\text{C}$, with proper rerating factor applied

