

Specifications 技术参数

Dc Power Fuses
North American Style

Ratings&Features Applications电气参数/功能应用领域:

- ◇ Volts电压: 750Vdc;
- ◇ Amps电流: 35-800A;
- ◇ Interrupting Capacity分断:
 - MaxBc: 50kA 750Vdc;
 - Class of Operation: aR
- Design For DcApplications 直流应用设计;
- Excellent Dc Performance 卓越的直流分断能力;
- Low arc voltage and low energy let-through(I2t)焦耳积分放通量小;
- Superior cycling capability可循环利用率高
- Low Watt Losses 低功率损耗;
- Electrical Energy Storage 电能/储能;
- DC Drives直流驱动保护;
- Reduced voltage starters 降压启动保护;
- Power converters/rectifiers 电源转换/整流保护;
- Battery pack protection 动力电池包保护;
- Backup Protection For DcRelay 直流继电器保护;



Standards / Approvals 认证标准:

- ◇ Refer To UL248.13/IEC60269.6/GB31465.6/JASO-D622/ISO8820.8;
性能参考UL248.13/IEC60269.6/GB31465.6/JASO-D622/ISO8820.8;;
- ◇ Manufactured Under a IATF16949 Quality System forCompliance withAutomotive Requirements;
根据IATF16949质量体系制造符合汽车要求;
- ◇ Reach Declaration Available Upon Request;
可根据要求提供REACH声明;
- ◇ CE;
- ◇ RoHS Compliant.
符合RoHS。

Features & benefits产品特性:

Higher voltage rating provides overall system efficiency using smaller, more economical conductors while meeting the needs of higher voltage. Up to ten times faster opening under high fault current conditions helps assure reliable protection of circuits and components. Can be applied in parallel to realize greater ampacity within sizing guidelines, Excellent power of resisting voltaic impingement and environment temperature tolerance, Excellent resistance to mechanical vibration and impact resistance.

满足高电压、小体积、更经济的提升整体系统效率，同时满足更高电压的需求。在大的故障电流条件下，断开速度更快，确保电路和部件的可靠保护。可以并行应用，实现尺寸范围内更大的载流量。良好的抗电流冲击能力以及冷、热环境温度耐受能力，具有优越的抗机械振动与冲击能力。

Product Model产品型号说明:

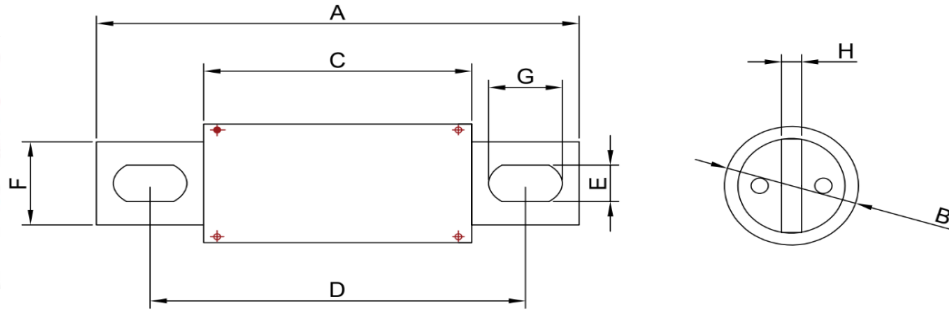
HC	HV	F	750	=	600	A	=	51R
HC: Company Code								
EV: Electric Vehicle								
HV: High Speed								
F: Fiberglass T: Ceramics								
Rated Voltage: 750: 750V								
Rated Current: 600: 600A								
x: Connect A, H, T								
Type Series Code: 20R, 26R, 38R, 51R, *63R								

Fuse Ratings 额定参数

Rated Current		Catalog no.	Average @50KA/750Vdc		Power Loss W	Breaking Capacity
			Melting A ² S	Clearing A ² S	1.0InW Max	
20 mm diameter case						
35	35A	HCHVF750-35A-20R	35	168	13	50kA
40	40A	HCHVF750-40A-20R	78	336	13	
50	50A	HCHVF750-50A-20R	139	630	13	
60	60A	HCHVF750-60A-20R	216	998	17	
26 mm diameter case						
70	70A	HCHVF750-70A-26R	314	2100	19	50kA
80	80A	HCHVF750-80A-26R	371	2520	23	
90	90A	HCHVF750-90A-26R	427	2835	27	
100	100A	HCHVF750-100A-26R	556	3675	29	
125	125A	HCHVF750-125A-26R	1889	7933	32	
150	150A	HCHVF750-150A-26R	3032	12654	40	
38 mm diameter case						
125	125A	HCHVF750-125A-38R	1854	7665	30	50kA
150	150A	HCHVF750-150A-38R	2987	12285	35	
175	175A	HCHVF750-175A-38R	4326	17535	38	
200	200A	HCHVF750-200A-38R	5665	22660	46	
225	225A	HCHVF750-225A-38R	8090	33271	54	
250	250A	HCHVF750-250A-38R	11031	45176	65	
300	300A	HCHVF750-300A-38R	18491	75683	80	
350	350A	HCHVF750-350A-38R	24899	100733	93	
400	400A	HCHVF750-400A-38R	32569	131000	102	
51 mm diameter case						
225	225A	HCHVF750-225A-51R	7931	32239	49	50kA
250	250A	HCHVF750-250A-51R	10815	43775	52	
275	275A	HCHVF750-275A-51R	14100	52390	56	
300	300A	HCHVF750-300A-51R	18128	73336	68	
350	350A	HCHVF750-350A-51R	24411	98468	78	
400	400A	HCHVF750-400A-51R	31930	128750	103	
450	450A	HCHVF750-450A-51R	37492	141110	115	
500	500A	HCHVF750-500A-51R	46556	175100	122	
550	550A	HCHVF750-550A-51R	53045	199206	133	
600	600A	HCHVF750-600A-51R	68701	257500	140	
630	630A	HCHVF750-630A-51R	69340	285500	147	
700	700A	HCHVF750-700A-51R	76500	347600	165	
800	800A	HCHVF750-800A-51R	93560	415000	190	

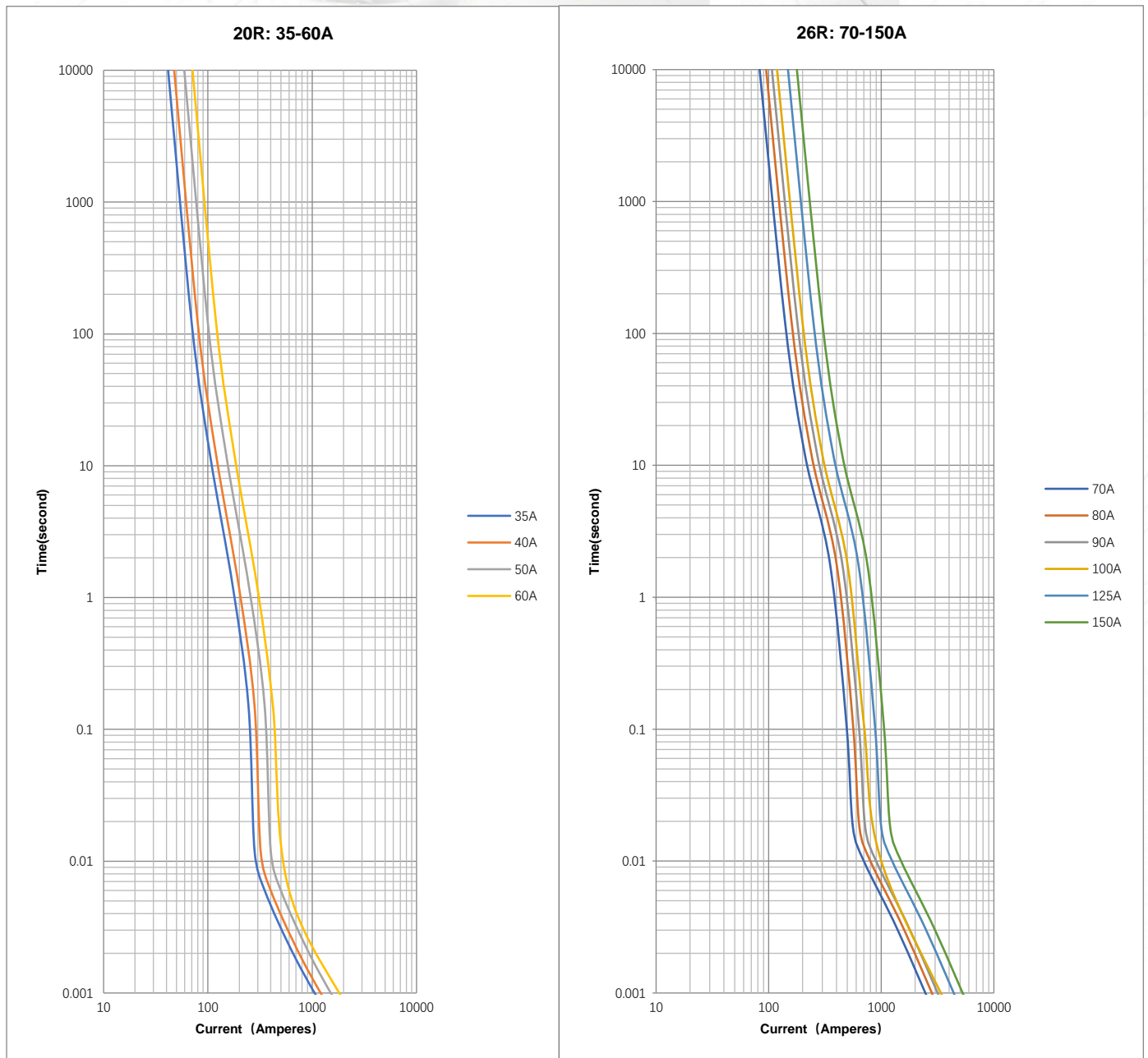
◇ DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25 °C ;

Dimensions (mm)尺寸

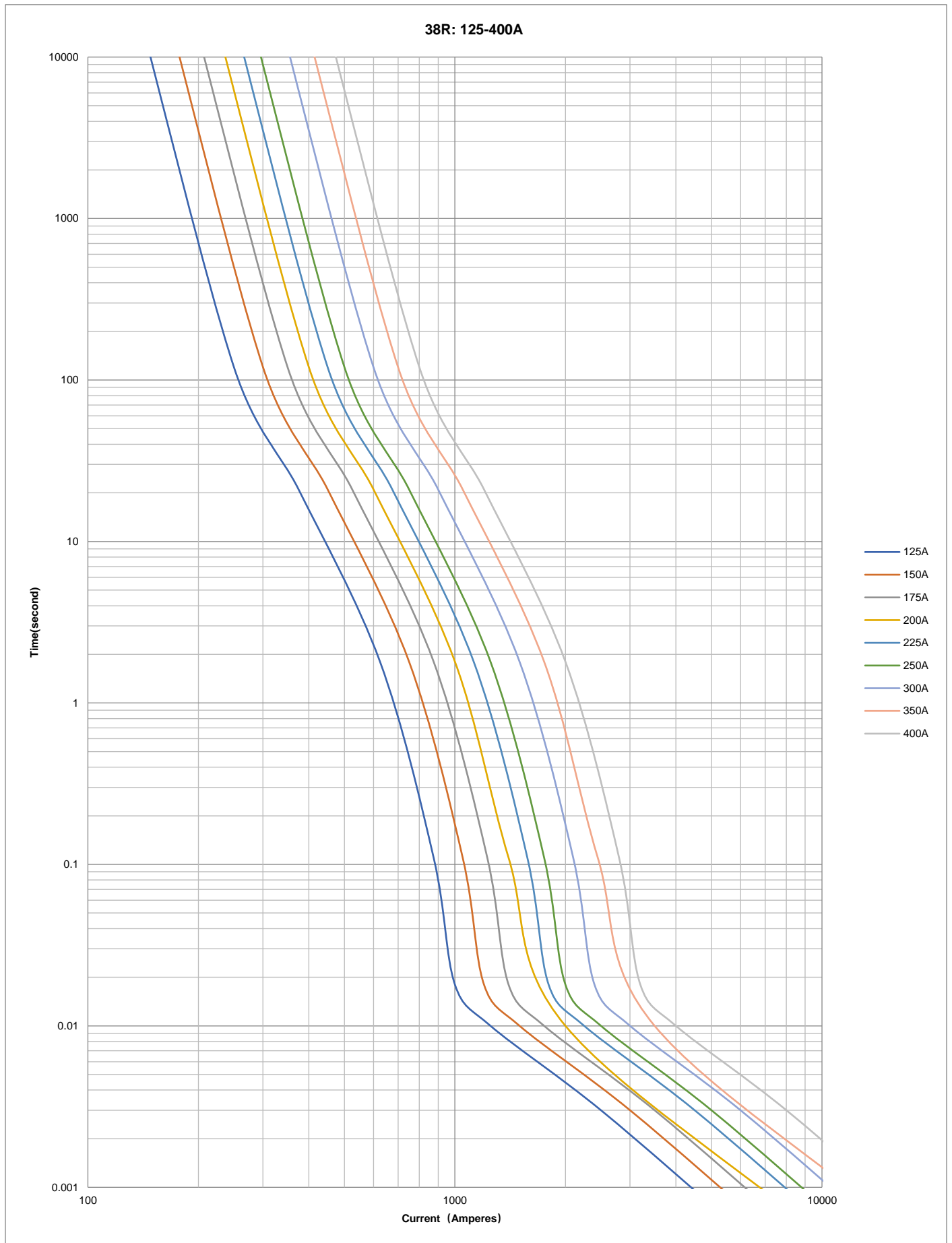


S.	Amps	A±1.5	B±1	C±1	D±1.5	E±0.5	F±0.5	H±0.5	G±0.5
20R	35-60A	111.00	20.00	70.00	90.50	8.50	15.00	3.00	13.0
26R	70-150A	114.00	26.00	66.00	90.00	8.50	20.00	3.00	12.0
38R	125-400A	129.00	38.00	72.00	100.50	10.50	25.00	6.00	20.0
51R	225-800A	129.00	51.00	72.00	100.50	10.50	40.00	6.00	20.0

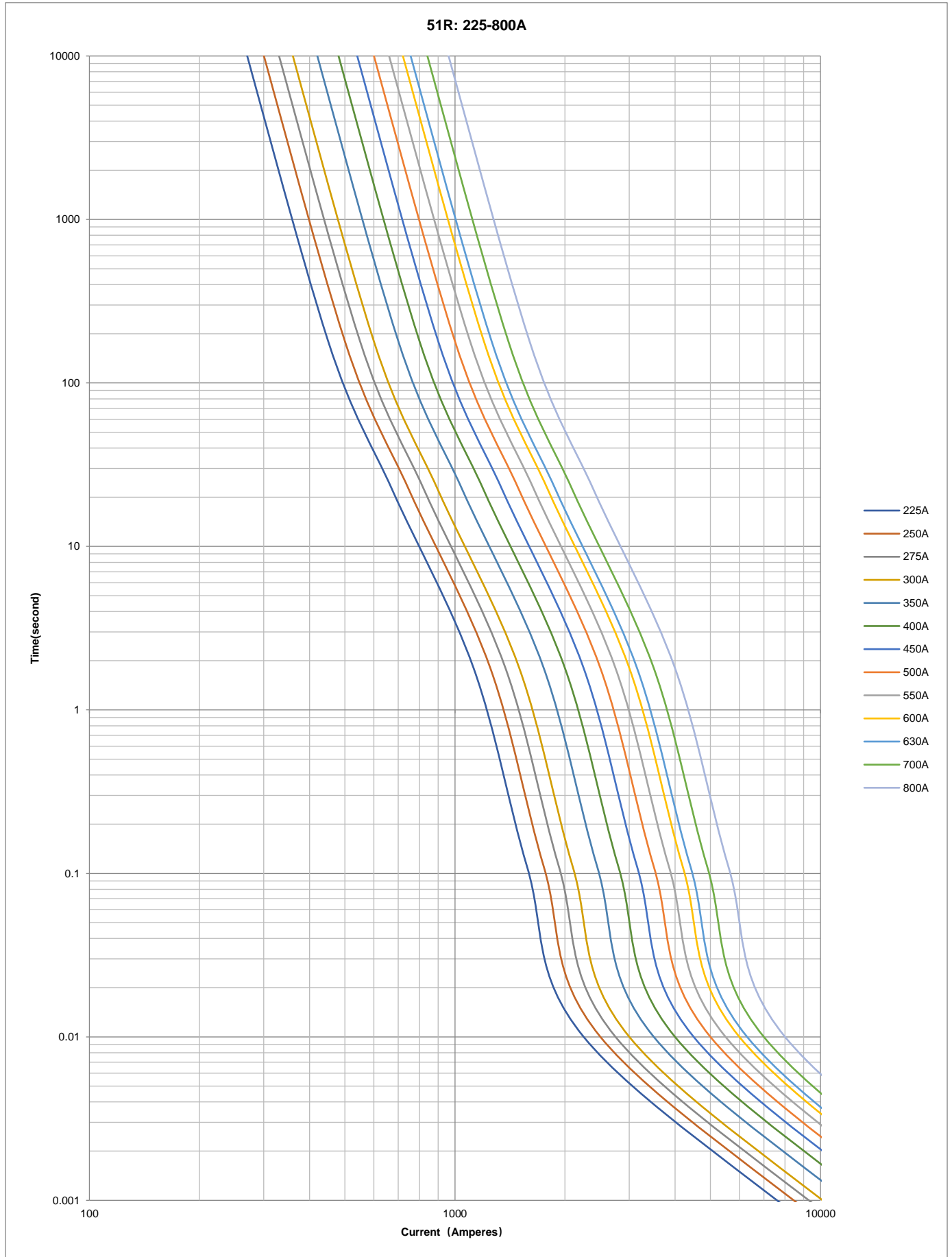
Time-Current Curve时间电流曲线图



Time-Current Curve 时间电流曲线图



Time-Current Curve 时间电流曲线图



Operating conditions 使用条件

- ◇ Product storage Temperature: -40°C~120°C(-40°F~248°F);
产品存储温度: -40°C~120°C, 在40°C时相对湿度不大于70%;
- ◇ Product storage Humidity: T=40°C RH≤70%, T≤30°C RH≤80%, T≤20°C RH≤90%;
在30°C以下, 产品相对湿度不大于80, 在20°C以下, 相对湿度不大于90%;
- ◇ Package storage Temperature: -40°C~80°C(-40°F~176°F);
包装存储温度: -40°C~80°C;
- ◇ Fuses can perform regularly under the flowing conditions without corrections;
熔断器在下述的正常使用条件下工作, 不需要额外的修正;
- ◇ Regular current flow should ≤ 75% of recommended rated current;
推荐长期通流的电流值不大于额定电流的75%;
- ◇ High frequency vibration resistance: ≥ 20g;
本系列熔断器有良好的抗振动和冲击的耐受能力, 可承受20g以上的加速度;
- ◇ Intense vibration and shocking conditions need more tests.
振动较为强烈的应用环境, 可商议进行对应测试, 一般要经过较长的周期。
- ◇ Replacing fuses if damaging facilities;
对有机损伤的熔断器必须进行更换;
- ◇ DO NOT change fuses while loading unless MUST.
除非使用要求允许, 如熔断器式负荷开关, 否则请勿带负载更换熔断器。
- ◇ Operating temperature: -5°C~40°C (23°F~104°F);
正常使用条件: -5°C~40°C;
- ◇ Allowable operating temperature:-40°C~125°C (-40°F~257°F);
允许使用条件: -40°C~125°C;
- ◇ Temperature correction factors: when below -5°C (23°F), low overload (L.O.) pre-arcing time will slightly extend, rated current will slightly increase;
周围空气温度变化的参数修正: 在低于-5°C下工作, 熔断器的低倍过载电流的弧前时间略有延长, 额定电流略有增大, 但是除非-5°C以上不是工作范围, 一般不参考增加熔断器额定电流;
- ◇ If operating above 40°C (104°F), rated current need extra corrections, factors: -Kt^①.
熔断器在40°C以上工作, 额定电流需要额外的修正, 修正系数为-Kt。
*Note^①:Kt value has already considered the safety current allowance under regular operating scenarios.
*注1: Kt的取值已考虑熔断器在正常工作条件下的额定电流安全余量的影响。

