

➤ 概述 Overview

本系列半导体器件保护用熔断器，产品符合GB/T13539.4、IEC60269-4、UL248等标准，交直流50Hz、额定电压AC/DC500V-1000V，额定电流60-1200A，分断能力DC50kA，AC100kA，使用类别为aR，适用于配电、轨道交通、储能、风电、充电桩、电驱动系统、功率变换系统、变频器等成套器件的短路及后备保护。

This series of semiconductor device protection fuses, products in line with GB/T13539.4, IEC60269-4, UL248 and other standards, AC/DC 50Hz, rated voltage AC/DC500V-1000V, rated current 60-1200A, breaking capacity DC50kA, AC100kA, use category aR, Suitable for short-circuit and backup protection of power distribution, rail transit, energy storage, wind power, charging pile, electric drive system, power conversion system, frequency converter and other complete sets of devices.



➤ 特性 Characteristics

熔断器属易耗件，由熔管、熔体、填料等组成。熔体封装于熔管内，熔管中充填高纯度石英砂作为灭弧介质，熔体两端采用点焊与端帽组成封闭管式结构。熔断体具有外型体积小、耐高温、额定容量大、分断能力高、分断速度快、温升低等优越的电气性能。

The fuse is a consumable part, composed of fuse, melt, filler, etc. The melt is enclosed in the tube, the flash tube is filled with high purity quartz sand as the extinguishing medium, and the two ends of the melt are spot-welded and the end cap is used to form a closed tube structure. The fuse body has the advantages of small Specification, high temperature resistance, large rated capacity, high breaking capacity, fast breaking speed and low temperature rise.

➤ 订货型号示例 Order code example

企业代码 enterprise code	系列 series	额定电流 Rated current	额定电压 Rated voltage	规格mm Specification
↓	↓	↓	↓	↓
LC	M	60A	5V=500V	24D

➤ 技术参数 Parameters

规格 Specification	型号 Model	额定电流 Rated current	额定电压 Rated voltage	保护类别 Protection category	螺栓 Bolt	扭矩N.m Torque
 Ø24x92mm	LCM60A5V24D	60A	DC500V	aR	M8	12±1N.m
	LCM70A5V24D	70A	DC500V	aR	M8	12±1N.m
	LCM80A5V24D	80A	DC500V	aR	M8	12±1N.m
	LCM90A5V24D	90A	DC500V	aR	M8	12±1N.m
	LCM100A5V24D	100A	DC500V	aR	M8	12±1N.m
 Ø31x92mm	LCM125A5V31D	125A	DC500V	aR	M10	21±1N.m
	LCM150A5V31D	150A	DC500V	aR	M10	21±1N.m
	LCM175A5V31D	175A	DC500V	aR	M10	21±1N.m
	LCM200A5V31D	200A	DC500V	aR	M10	21±1N.m
 Ø37x110mm	LCM225A5V37D	225A	DC500V	aR	M10	21±1N.m
	LCM250A5V37D	250A	DC500V	aR	M10	21±1N.m
	LCM275A5V37D	275A	DC500V	aR	M10	21±1N.m
	LCM300A5V37D	300A	DC500V	aR	M10	21±1N.m
	LCM325A5V37D	325A	DC500V	aR	M10	21±1N.m
	LCM350A5V37D	350A	DC500V	aR	M10	21±1N.m
	LCM400A5V37D	400A	DC500V	aR	M10	21±1N.m
 Ø49x110mm	LCM450A5V49D	450A	DC500V	aR	M10	21±1N.m
	LCM500A5V49D	500A	DC500V	aR	M10	21±1N.m
	LCM600A5V49D	600A	DC500V	aR	M10	21±1N.m

➤ 订货型号示例 Order code example

企业代码 enterprise code	系列 series	额定电流 Rated current	额定电压 Rated voltage	规格mm Specification
↓	↓	↓	↓	↓
LC	M	70A	7V=750V 10V=1000V	24D

➤ 技术参数 Parameters

规格 Specification	型号 Model	额定电流 Rated current	额定电压 Rated voltage	保护类别 Protection category	螺栓 Bolt	扭矩N.m Torque
 Ø24x112mm	LCM70A7V24D	70A	DC750V	aR	M8	12±1N.m
	LCM80A7V24D	80A	DC750V	aR	M8	12±1N.m
	LCM90A7V24D	90A	DC750V	aR	M8	12±1N.m
	LCM100A7V24D	100A	DC750V	aR	M8	12±1N.m
 Ø37x129mm	LCM125A7V37D	125A	DC750V	aR	M10	21±1N.m
	LCM150A7V37D	150A	DC750V	aR	M10	21±1N.m
	LCM175A7V37D	175A	DC750V	aR	M10	21±1N.m
	LCM200A7V37D	200A	DC750V	aR	M10	21±1N.m
 Ø49x129mm	LCM225A7V49D	225A	DC750V	aR	M10	21±1N.m
	LCM250A7V49D	250A	DC750V	aR	M10	21±1N.m
	LCM275A7V49D	275A	DC750V	aR	M10	21±1N.m
	LCM300A7V49D	300A	DC750V	aR	M10	21±1N.m
	LCM325A7V49D	325A	DC750V	aR	M10	21±1N.m
	LCM350A7V49D	350A	DC750V	aR	M10	21±1N.m
	LCM400A7V49D	400A	DC750V	aR	M10	21±1N.m
 Ø49x180mm	LCM450A7V49D	450A	DC750V	aR	M13	64±2N.m
	LCM500A7V49D	500A	DC750V	aR	M13	64±2N.m
	LCM600A7V49D	600A	DC750V	aR	M13	64±2N.m
 Ø24x124mm	LCM35A10V24D	35A	DC1000V	aR	M8	12±1N.m
	LCM40A10V24D	40A	DC1000V	aR	M8	12±1N.m
	LCM50A10V24D	50A	DC1000V	aR	M8	12±1N.m
	LCM60A10V24D	60A	DC1000V	aR	M8	12±1N.m
	LCM70A10V24D	70A	DC1000V	aR	M8	12±1N.m
	LCM80A10V24D	80A	DC1000V	aR	M8	12±1N.m
 Ø31x124mm	LCM90A10V31D	90A	DC1000V	aR	M8	12±1N.m
	LCM100A10V31D	100A	DC1000V	aR	M8	12±1N.m
	LCM125A10V31D	125A	DC1000V	aR	M8	12±1N.m
	LCM150A10V31D	150A	DC1000V	aR	M8	12±1N.m

➤ 订货型号示例 Order code example

企业代码 enterprise code	系列 series	额定电流 Rated current	额定电压 Rated voltage	规格mm Specification
↓	↓	↓	↓	↓
LC	M	175A	10V=1000V	37D

➤ 技术参数 Parameters

规格 Specification	型号 Model	额定电流 Rated current	额定电压 Rated voltage	保护类别 Protection category	螺栓 Bolt	扭矩N.m Torque
 Ø37x144mm	LCM175A10V37D	175A	DC1000V	aR	M10	21±1N.m
	LCM200A10V37D	200A	DC1000V	aR	M10	21±1N.m
	LCM225A10V37D	225A	DC1000V	aR	M10	21±1N.m
	LCM250A10V37D	250A	DC1000V	aR	M10	21±1N.m
	LCM300A10V37D	300A	DC1000V	aR	M10	21±1N.m
 Ø49x145mm	LCM350A10V49D	350A	DC1000V	aR	M10	21±1N.m
	LCM400A10V49D	400A	DC1000V	aR	M10	21±1N.m
	LCM450A10V49D	450A	DC1000V	aR	M10	21±1N.m
	LCM500A10V49D	500A	DC1000V	aR	M10	21±1N.m
 Ø31x124mm	LCM90A10V78L	90A	DC1000V	aR	M8	12±1N.m
	LCM100A10V78L	100A	DC1000V	aR	M8	12±1N.m
	LCM125A10V78L	125A	DC1000V	aR	M8	12±1N.m
	LCM150A10V78L	150A	DC1000V	aR	M8	12±1N.m
 Ø39x145mm	LCM175A10V39D	175A	DC1000V	aR	M8	12±1N.m
	LCM200A10V39D	200A	DC1000V	aR	M8	12±1N.m
	LCM250A10V39D	250A	DC1000V	aR	M8	12±1N.m
	LCM300A10V39D	300A	DC1000V	aR	M8	12±1N.m

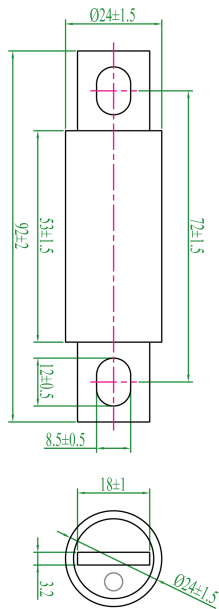
➤ 工作环境与储存Operating ambient

- 正常工作条件: -5°C~40°C
 - 允许使用条件: -40°C~120°C.
 - 正常工作条件: 海拔不超过2000m
 - 允许使用条件: 海拔不超过4500m
 - 运输过程中应避免雨雪侵袭和机械损伤
 - 产品储存温度: -40°C~70°C。
在40°C时相对湿度不大于70%
在30°C时相对湿度不大于80%
在20°C时相对湿度不大于90%
- Normal working conditions: -5°C~40°C
 - Allowable use conditions: -40°C~120°C
 - Normal working conditions: The altitude does not exceed 2000m
 - Permitted use conditions: altitude not exceeding 4500m
 - Rain, snow and mechanical damage should be avoided during transportation
 - Product storage temperature: -40°C~70°C。
The relative humidity is not more than 70% at 40°C
The relative humidity is not more than 80% at 30°C
The relative humidity is not more than 90% at 20°C

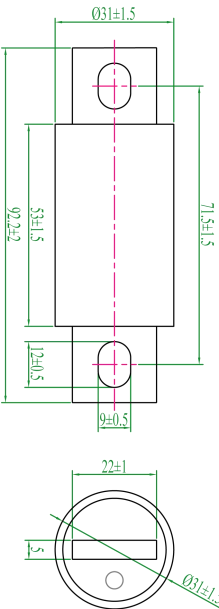
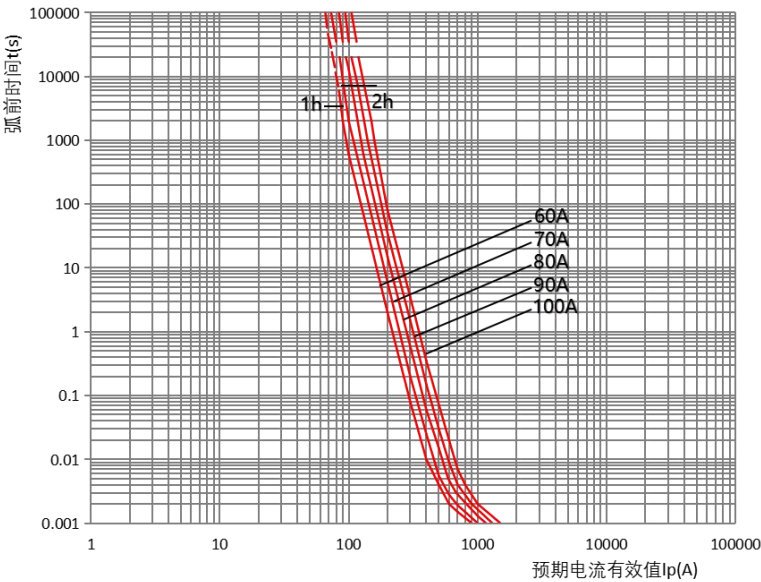
➤ 尺寸 Size / 弧前时间-预期电流曲线 Pre-arc time-expected current curve

尺寸
Size

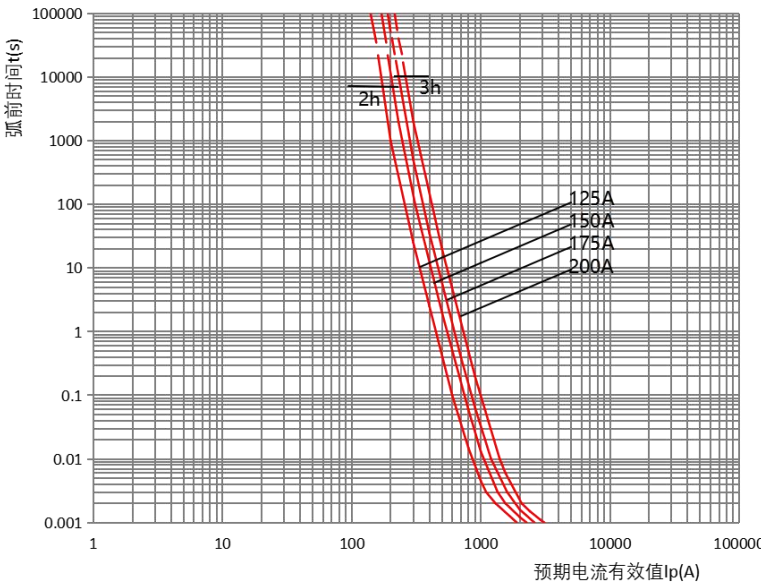
弧前时间-预期电流曲线
Pre-arc time-expected current curve



Ø 24x92mm



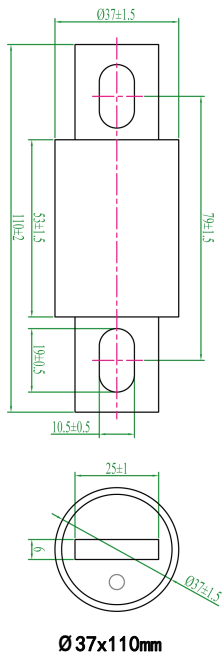
Ø 31x92mm



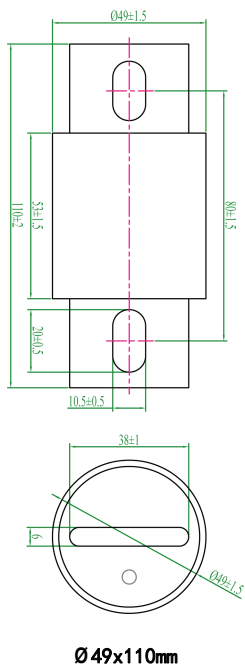
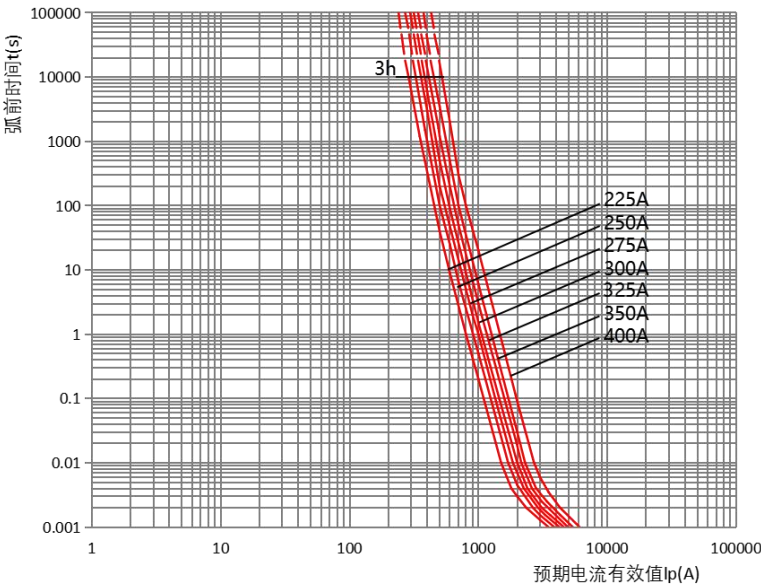
➤ 尺寸 Size / 弧前时间-预期电流曲线 Pre-arc time-expected current curve

尺寸
Size

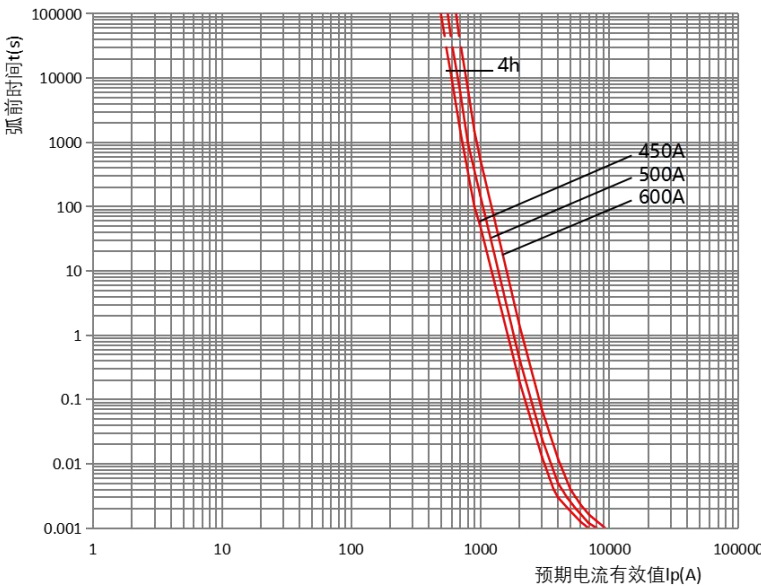
弧前时间-预期电流曲线
Pre-arc time-expected current curve



Ø37x110mm



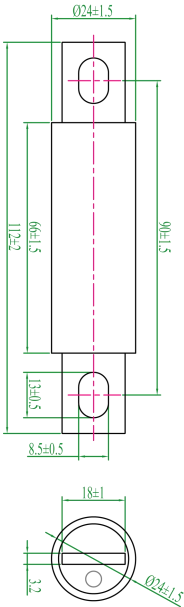
Ø49x110mm



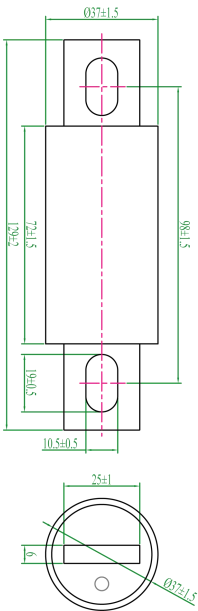
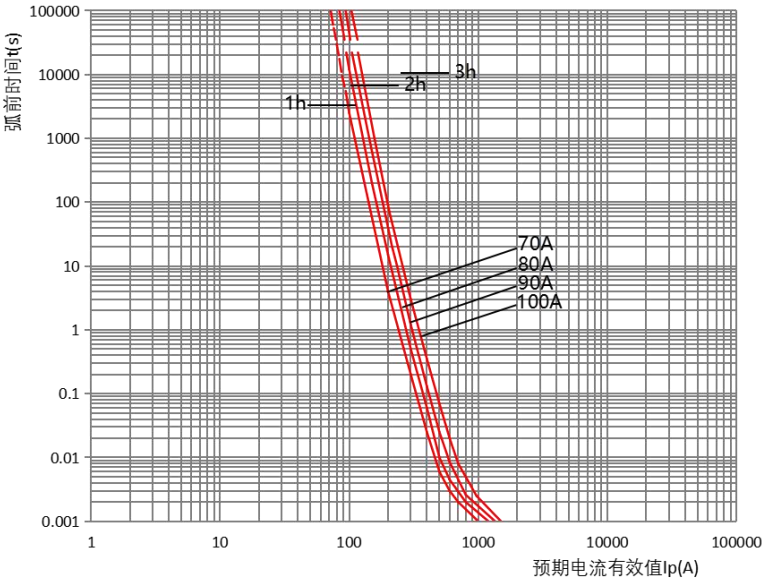
➤ 尺寸 Size / 弧前时间-预期电流曲线 Pre-arc time-expected current curve

尺寸
Size

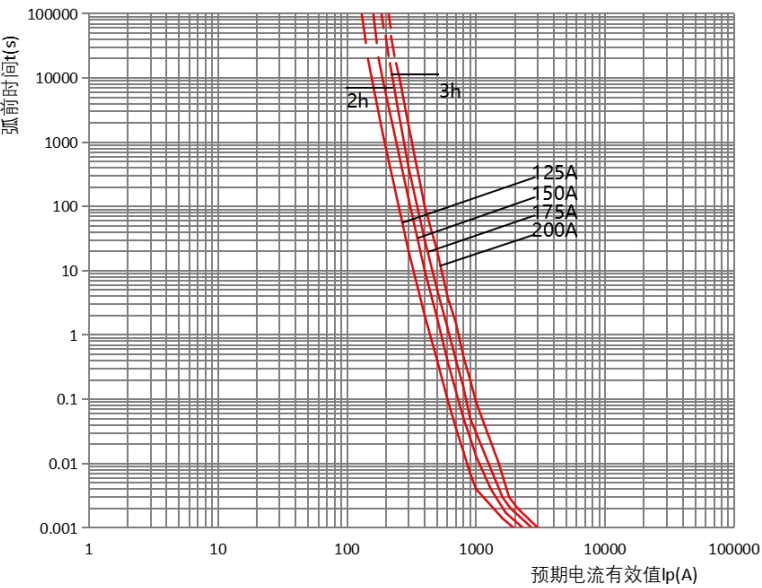
弧前时间-预期电流曲线
Pre-arc time-expected current curve



Ø24x112mm

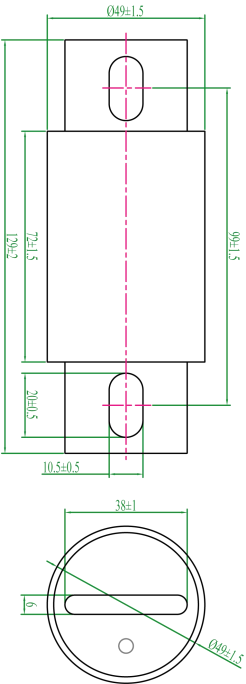


Ø37x129mm



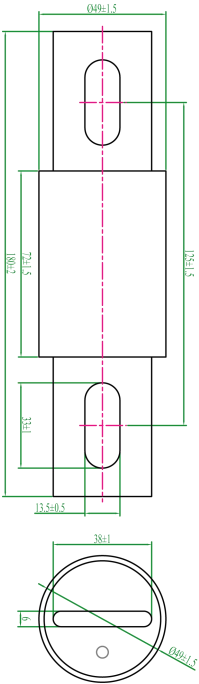
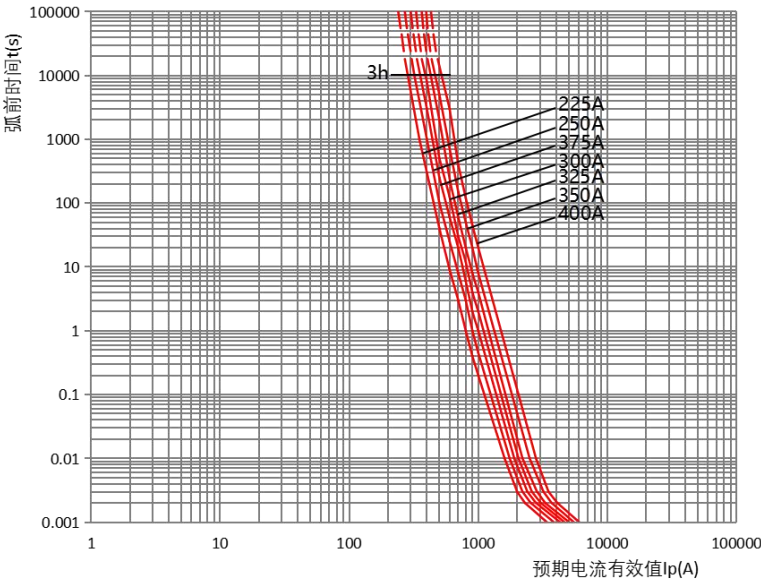
➤ 尺寸 Size / 弧前时间-预期电流曲线 Pre-arc time-expected current curve

尺寸
Size

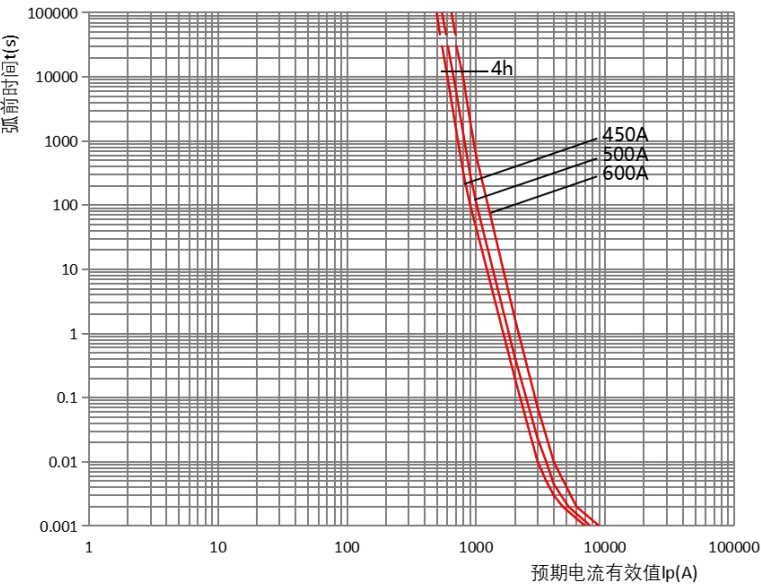


Ø49x129mm

弧前时间-预期电流曲线
Pre-arc time-expected current curve



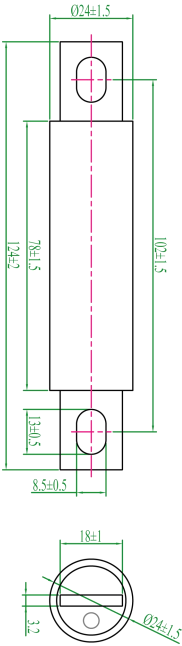
Ø49x180mm



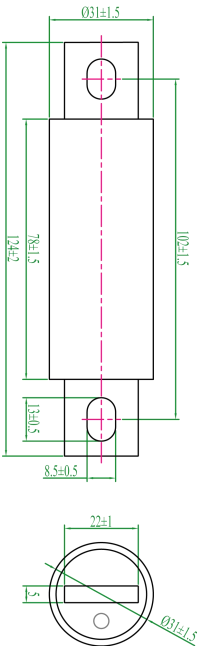
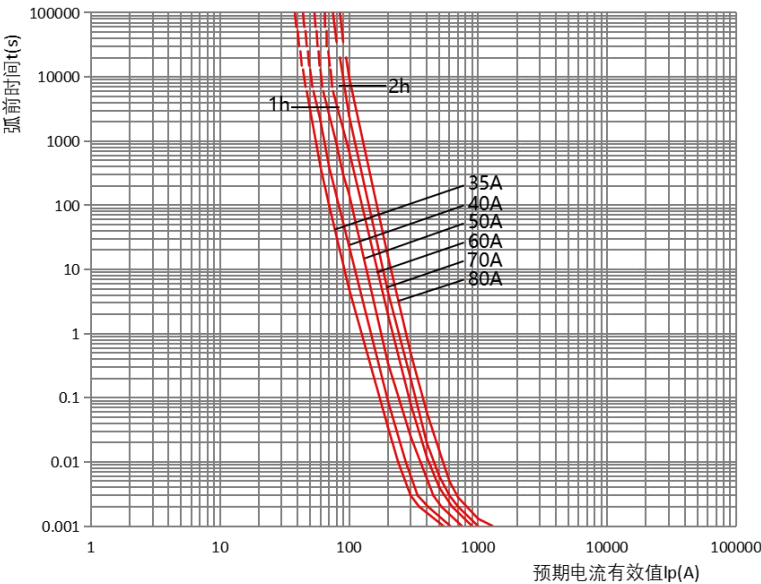
➤ 尺寸 Size / 弧前时间-预期电流曲线 Pre-arc time-expected current curve

尺寸
Size

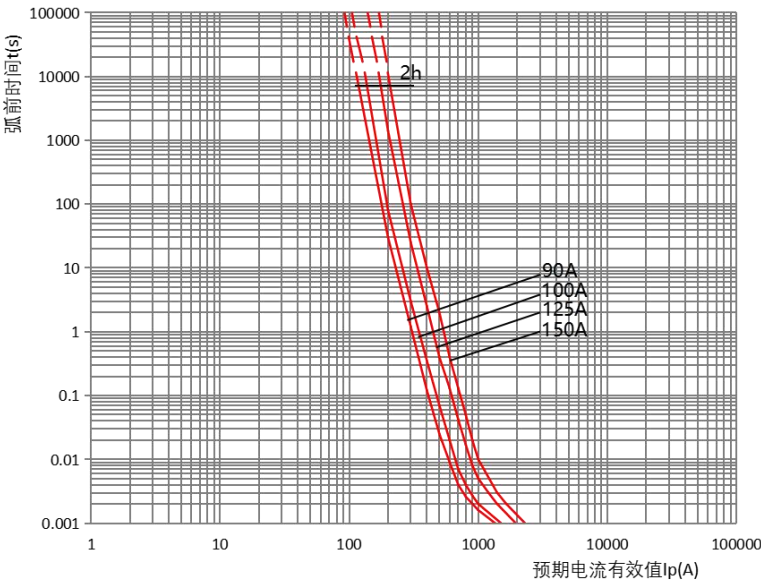
弧前时间-预期电流曲线
Pre-arc time-expected current curve



Ø24x124mm



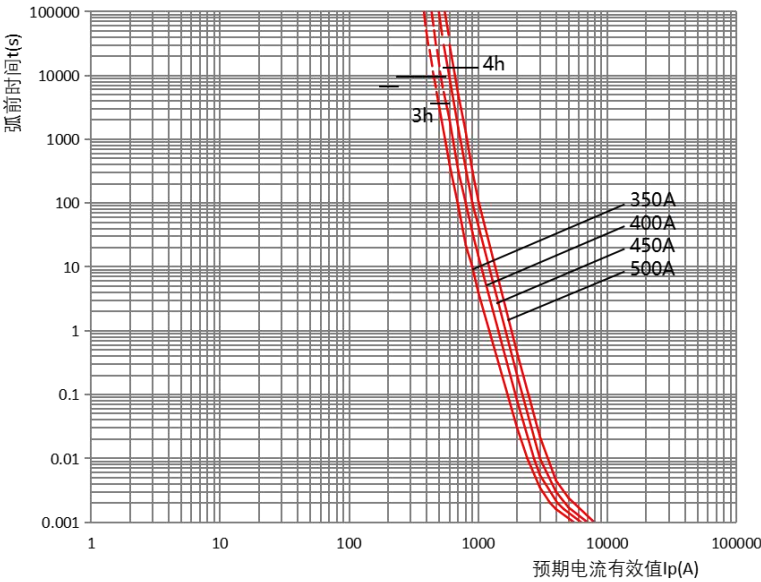
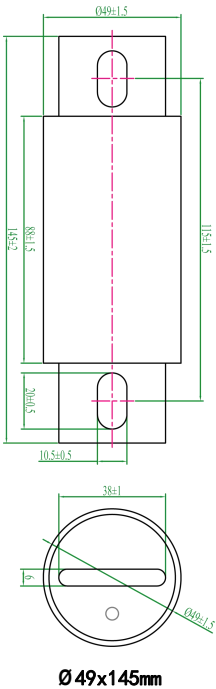
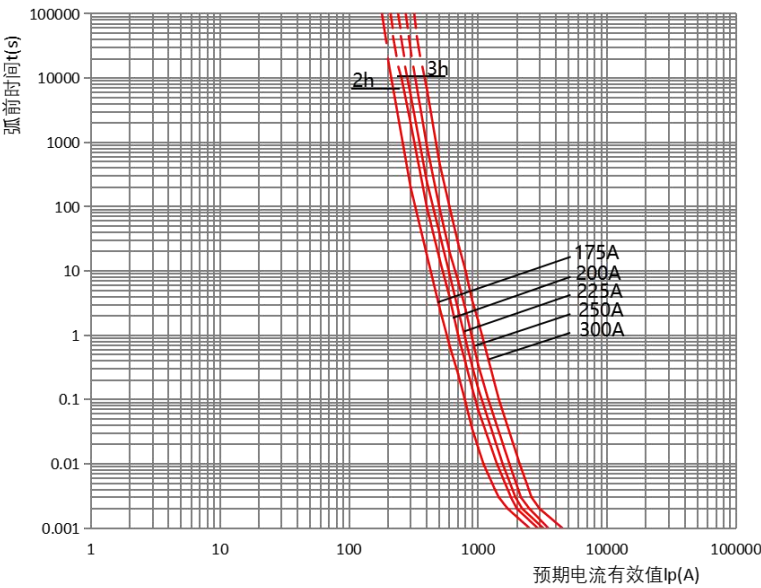
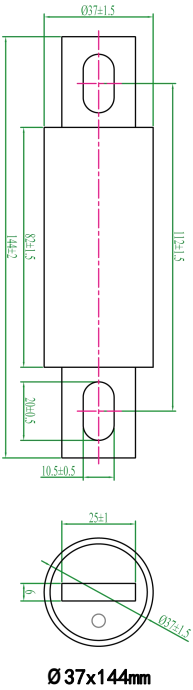
Ø31x124mm



➤ 尺寸 Size / 弧前时间-预期电流曲线 Pre-arc time-expected current curve

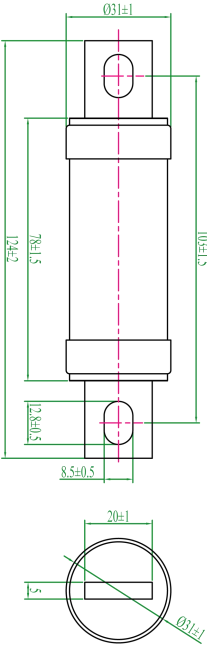
尺寸
Size

弧前时间-预期电流曲线
Pre-arc time-expected current curve



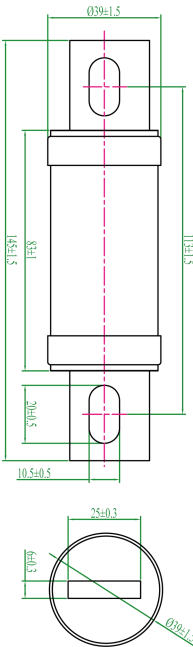
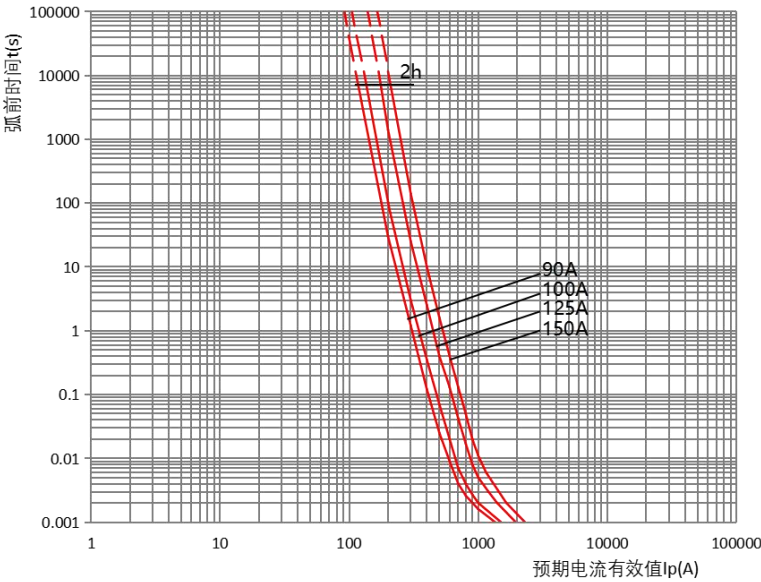
➤ 尺寸 Size / 弧前时间-预期电流曲线 Pre-arc time-expected current curve

尺寸
Size



Ø31x124mm

弧前时间-预期电流曲线
Pre-arc time-expected current curve



Ø39x145mm

