FRZ® 弗而兹电气

# 产品规格书

SPECIFICATION

产品名称/Product：快速熔断器

规格型号/Model：FRM350-LB395K

文件编号/File No.：FRSI-GGS-239-050

版本编号/Version：V.1.0.1

| 拟制/日期<br>Establish/Date | 审核/日期<br>Check/Date | 批准/日期：(盖章)<br>Approve/Date |
|---|---|---|
| 李 挺/2022.12.12 | 梁金星/2022.12.13 | 李 挺/2022.12.13 |

| 制/修订记录<br>Records of Revision | | | | | |
|---|---|---|---|---|---|
| 版　本<br>Version | 制/修订内容<br>Establish/Revised Content | 制/修订人/日期 | 审核人/日期 | 批准人/日期 | 备注 |
| V.1.0.1 | 创建 | 李挺/2022.12.12 | 梁金星/2022.12.13 | 李挺/2022.12.13 | |
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## 1. 基本参数 Technical Specification

额定电压 Rated Voltage: DC4000V

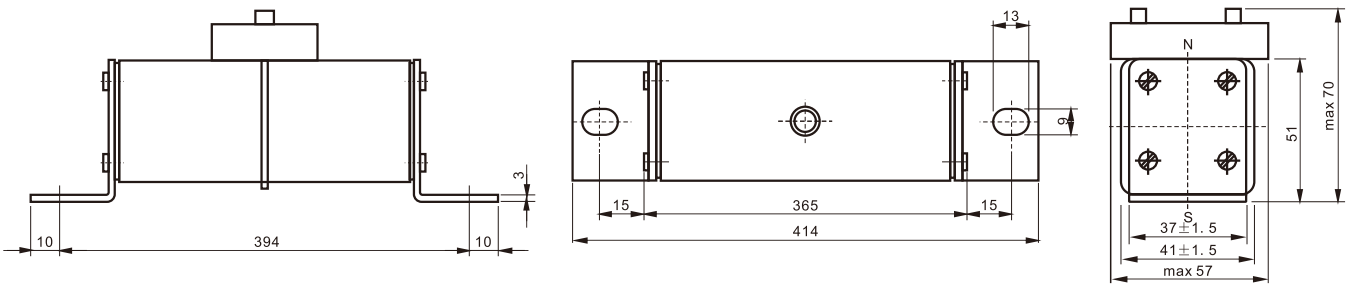
额定电流 Rated Current: 10A~80A

使用类别 Utilization Category: aR

最大分断能力 Max Breaking Capacity: $I_1$=100kA

参考标准 Standards： IEC60269-4

## 2. 外形尺寸Dimension

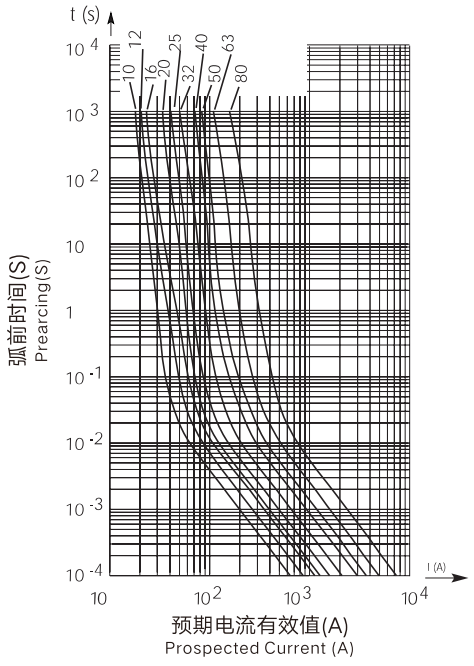



## 3. 电气特性Electrical Characteristics

### 3.1 电气特性参数
Parameters of Electrical Characteristics

| 型号 Model | 尺码 Size | 安装方式 Installation | 额定电压(V) Rated voltage | 额定电流(A) Rated current | 功耗(W) Watts Loss |
|---|---|---|---|---|---|
| FRM | 350 | LB395K | DC4000V | 10 | 18.5 |
| | | | | 12 | 20 |
| | | | | 16 | 24 |
| | | | | 20 | 25.4 |
| | | | | 25 | 32.5 |
| | | | | 32 | 46 |
| | | | | 40 | 63 |
| | | | | 50 | 52 |
| | | | | 63 | 76.5 |
| | | | | 80 | 92 |

### 3.2 时间电流特性曲线
Time-current Characteristics Curves



## 4. 铭牌信息 Label Mark

4.1 熔断体上的标识应易于看清The markings on the fuse-link shall be easily recognized

4.2 每个熔断体应标有以下标识：The symbols below shall be presented on each fuse-link

4.2.1 商标Trade Mark：FRZ

4.2.2 使用类别Utilization category： aR

4.2.3 额定电流Rated current： 10A~80A

4.2.4 额定电压Rated voltage： DC4000V

4.2.5 最大分断能力Max breaking capacity：$I_1$=100kA

4.2.6 符合标准Standards Conformed: IEC60269-4

4.2.8 型号标识Model mark：FRM350-LB395K

## 5. 包装信息Package Specification

| 型号 Model | 内盒包装信息 Inner packing information | | | | 外箱包装信息 Outer packing information | | | |
|---|---|---|---|---|---|---|---|---|
| | 数量 Qty | 毛重（KG） G.W.（KG） | 长×宽×高（mm） Length × Width × Height | 材质 Material | 数量 Qty | 毛重（KG） G.W.（KG） | 长×宽×高 Length × Width × Height | 材质 Material |
| FRM350-LB395K | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD |

## 6. 运输和存储Transportation and Storage

6.1 运输过程中应避免机械损伤和雨雪侵袭

It shall be prevented from mechanical damage and invasion of rain or snow during transportation

6.2 存储条件 Storage conditions

6.2.1 温度Temperature： 产品Products -40℃- 90℃； 包装Packing -40℃-70℃

6.2.2 空气 Air： 干净Clean

6.2.3 湿度Humidity：

对于产品，相对湿度在最高温度为40℃时不超过90%；对于包装，相对湿度不超过90%，无凝露。

For products the relative humidity does not exceed 90% at the maximum temperature of 40℃;

For packing stuff the relative humidity does not exceed 90%, and no condensation is allowed.

## 7. 使用条件 Condtions of Application

7.1 正常使用条件：

周围空气温度：周围空气温度不超过40℃，24h测得的平均值不超过35℃，一年内测得的平均值低于该值；周围空气温度最低值为-5℃。允许使用条件：-40℃-90℃。如有特殊使用场景，请与我司联系。

Normal condition:

The ambient temperature does not exceed 40℃, its mean value measured over a period of 24h does not exceed 35℃, and its mean value measured over a period of one year is lower; the minimum value of the ambient air temperature is -5℃. Allowed to apply: -40℃ to 90℃； Please contact us for technical advice if there is any special application.

7.2 海拔Altitude

7.2.1 安装的海拔不超过2000m；若使用地海拔超过2000米，每超过100米要求0.5%的降容系数，请参照表1《不同海拔的降容系数》。

The altitude of the site of installation of the fuses does not exceed 2000 m above sea-level. Above 2000 m a de-rating factor of 0.5% for every 100 m above 2000 m will be required. Please refer to table 1 “De-rating factor for different altitudes”.

7.2.2 海拔升高，空气绝缘强度下降，各熔断器之间或熔断器与其他带电结构或熔断器对地的绝缘间隙，请参考GB/T16935.1（IEC60664-1）进行相应修正；熔断器端子之间的绝缘距离一般远大于GB/T16935.1（IEC60664-1）表 A.1和表 A.2中要求的绝缘间隙，故除个别体积较小的熔断体外，一般不予校核绝缘间隙；

The dielectric strength decreases with the increase of altitude. Please refer to GB/T16935.1(IEC60664-1) to correct the dielectric gaps between each fuses or, between fuses with other electrical structures, or between fuses with the ground. The dielectric gap of terminals of each fuse is normally much larger than the requirements of tables A.1 and A.2 of GB/T16935.1（IEC60664-1）, thus it’s not required to correct the dielectric gap except for some little fuses.

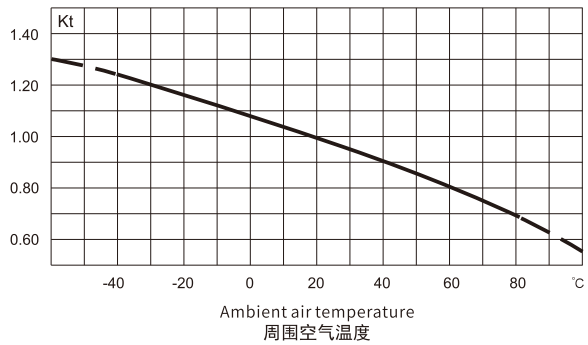
7.3 大气条件Atmospheric conditions：

空气是干净的，其相对湿度在最高温度为40℃时不超过50%；在较低的温度下可以有较高的相对湿度，例如，在20℃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。

The air is clean and its relative humidity does not exceed 50% at the maximum temperature of 40℃； Higher relative humidity is permitted at lower temperatures, for example, 90% at 20℃. Under these conditions, moderate conden-sation may occasionally occur due to variation in temperature.

表1 不同海拔的降容系数
Coefficient of different altitudes

| 海拔h(m) | 降容系数 $I / I_n$ |
|---|---|
| 2 000 | 1.000 |
| 2 500 | 0.975 |
| 3 000 | 0.950 |
| 3 500 | 0.925 |
| 4 000 | 0.900 |
| 4 500 | 0.875 |
| 5 000 | 0.850 |



样本所述的产品资料以实物为准，若有变更本公司恕不另行通知，欢迎致电咨询。

The product information described in the data sheet is subject to the actual product.
If there is any change, the company will not notify you separately. Please call for consultation.

FRZ® 弗而兹电气

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