高压限流熔新器的使用导则 Operation guide for H.V. Current-limiting fuse

2. Fuses used in single-phase system its rated voltage should be of 115% of max phase voltage.

熔新器额定电压的快报 Selection of reted voltage for fuse

熔断器的额定电压与电网电压相符 眼流熔崩器一般不宜降低电压使用,以避免熔断体截断电流时,产生的过电压超过电网允许的2.5

倍工作电压

voltage.

2.用子单相系统熔斯器、其都定电压按最高相电压的115%洗择: 3.用于三相中性占缔维系统或谐振绕地系统时、因系统可能发生所谓双捻地故障、即一个故障占在电源侧而另一个在负载制、日不简

1.一般用三相电路的熔斯器其额定电压按相应额定线电压选择:

- 相 此时熔断器的额定电压应接最高线电压选择
 - 4.用于三相中性点直接接地或经阴抗中性点接地系统时、按最高线电压选择
- Rated voltage of fuse should accord with mains voltage Generally current-limiting fuse cap't be used under declining voltage to avoid the circumstance of produced over voltage exceeding 2.5 times of electric network's allowed working voltage when Juse link cutting off the current. 1. Bated voltage of general fuses with three-phase circuit should be chosen according to the corresponding rated wire voltage.
- Elone fault point is at power side while the other at load side, and the phase is different. Now the rated voltage of fuse should be chosen, according o max wire voltage. 4. When used in three-phase neutral point direct earth or the earthed system by impedance neutral point, to choose according to max wire

When used in three-phase neutral point insulation system or resonance earthed system, as double earth fault may occur to the system.

熔断件额定电流的选择 Selection of rated current for fusing piece

- 1.熔新件熔新管的额定电流应大平或等平熔体的额定电流: 2.熔断件的额定电流应为负载长期工作电流 1.25 倍:
- 3.熔新器安装在三相封闭的柜体中,或单只装在绝缘浇注的筒内,或三根装在不封闭的柜体中时,皆要考虑适当降低容量使用。
- 1.Rated current of fusing piece and fusing tube should not less than the rated current of melt.
- Rated current of fusing piece should be 1.25 times of load long-term working current. Fuses are installed in the three-phase sealed cabinet or singly installed into the insulation poured canister, or three-phase in unsealed

熔质器开质电流的选择 Selection of breaking current for fuse 根据熔断器的保护作用,其最大开断电流不小于被保护电路的最大短路电流,最小熔化电流应不大于被保护电路的最小短路电流。

cabinet, proper capacity decline to use should be considered.

According to the protection function of fuse, its max breaking current should not less than max short circuit current of the circuit of protected electrical equipment min melting current should not more than the min short circuit current of protected circuit.

熔新器的保存和检查 Storage and inspection for fuse

- 1.熔断器应储存在干燥合适的场所
- 2.对摔落过的或受振动的熔断器在使用前应进行检验(直流电阻、零部件是否完好)。
- 3.故署久的嫁断器出厂/出库时应进行再次检查其申明值。
- 1. Fuses should be kept in dry and proper place.
- Check the have been fallen and vibrated fuses before using(whether DC resistance and components are in good condition). 3.Re-check its resistance value of fuses stored for a long time when leaving factory/sending out of warehouse.

1.安装熔斯器时,应紧固所有的零件,防止接触部分在正常运行时过热。

- 2.对三相安装的熔断件,即使一支动作,其他两支均应更换,因为其它两支虽未损坏,但已接近动作点,已到了易损坏的程度。
- 3.在更换动作过的熔新件时,应在动作10分钟后更换。如果在熔新件动作后发现管内有烟雾泄出或有噪声现象时,不应更换熔新件。
- 3.在更换动作过的溶断件时,应在动作10分钟后更换。如果在溶断件动作后及坑管内有烟雾湿出或有噪声境影时,不应更换溶断等需待熔断件与电源隔离后才允许更换。
- 4.对装在靠供电设备或带电导体附近时,应满足安全条例的规定。
- 1. Tightly fix all components to avoid overheating for contact parts when installing fuses.
- 2.For fuses of three-phase installation, although one acts, another two all should be replaced. As the two though haven't been damaged, approach acting point and have reached the easy-damaging extent.
- 3. Replacement of an acted fusing piece should be done in 10 min after its action. If smoke leakage or noise occurs in the tube after fusing piece action, the fuse piece can be replaced only after it is out of the circuit.
- 4. More consideration should be taken when the fuse installed near power supply equipment or energized conductor.
 5. Fuses can't be installed in a place with severe vibration, dust, pollution and dampness.

熔断器的运输 Transportation for fuse

熔断器在运输途中,要严格防止振动、跌落、碰撞现象。对发生上述情况,要进行性能测试后再予使用。

Try to avoid vibration, falling, impact during the transportation for fuse. If the above conditions occur, do test thoroughly before it is used.

订货须知 Ordering notice

1.用户应提出熔断器的额定电压、额定电流、开断电流、保护对象等。

熔断器的安装及更换 Installation and replacement for fuse

5.熔新器不能安装在有严重振动、灰尘、污染、潮源的场所。

- 2.用户需要样本上没有介绍的熔斯器时,请提出工作电压、工作电流、开新能力、外型尺寸等。我们可以按照您的要求设计产品。
- 1. User should point out the rated voltage, rated current, breaking current and protective object of fuse.
- 2. Please feel free to contact us for your special requirement beyond our catalogue.

W型电动机保护用高分断能力高压限流熔断器 H.V HRC current-limiting fuses type W for motor protection

用途 Applications

W型电动机保护用高分断能力高压限流熔断器适用于交流50Hz、额定电压3.6~10KV、额定电流400A(3.6KV)、224A(7.2KV)及以下的电力系统中,作为高压电动机及其他电力设备的过载或短路保护用;也可与负荷开关、真空接触器等配合使用。

本高压熔断器符合国家GB15166.2标准和国际电工委IEC60282-1标准以及英国BS标准。

H.V HRC current-limiting fuses type W for motor protection is mainly used in AC 50Hz, rated voltage 3.6–10kV, rated current up to 400A(3.6kV), 224A(7.2kV) circuit for protecting motor and power equipment from overload and short-circuit. It can also be used with load switch, vacuum contact

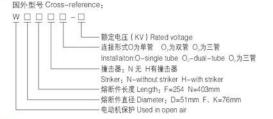
It conforms to IEC60282-1, BS and GB15166.2.

■结构特点 Design Features

W型高压熔斯器采用插入式和母线式两种结构。具有安装体积小、接触可靠和更换方便的特点;火药式撞击器并联于由纯银片制成 并旋绕的熔体,与经化学处理过的高纯度石英砂一起密封于熔管内;熔管采用耐高温的高强度氧化铝瓷制成。在线路发生故障时,熔体 熔化,在熔体出现电弧瞬间,撞击器的与熔体并联的高电阻金属丝立即熔断,点燃火药产生高气压将撞击器迅速弹出,推动连锁电器触 头,自动切换电路或发出熔斯讯号。本高压熔斯器具有耐震动、分断能力高、动作快、保护特性好等优点。

W type H.V HRC current-limiting fuses has two installation:bus-bar installation and insert installation.It is small in volume, reliable in connection. The power striker parallels to the fuse element made from pure silver. They are sealed in the fuse tube filled with chemically treated high-purity quartz sand. The fuse tube is made from heat resistant, high duty ceramic or epoxy glass. When fault circuit happens, the fuse link melts, the high-resistant metal wire paralleling to fuse links melts immediatedly at the appearance of the arc, and the striker jumps out to push the chained equipment contact, signaling the melting or automatically cutting the circuit. W type H.V HRC current-limiting fuses has many merits as high current-limiting ability, high breaking capacity, quick and punctual in action, reliable in performance.

型号含义 Mode And Implication





限流式 Current-limiting

基本数据 Basic Data

序号		号 odels	额定电压	熔体额定电流	额定开断电流	外形尺寸 (mm Dimensions(mn) (见图1.3~1.4) n)(See fig.1.3~1.4)	重量
No.	国外 Foreign	部類 Department	Rated voltage (KV)	Rated current of the fuse links (A)	Rated breaking current (KA)	ФD	L	Weight (Kg)
G0030	WDF.O	XBNM1	3.6	50,63,80,100,125	50	51	254	1.4
G0031	WFF.O	XRNM1	3.6	125,160,200	50	76	254	2.8
G0032	WKF.O	XBNM1	3.6	250,315,355,400	50	76	254	2.8
G0033	WFN.O	XRNM1	7.2	25,31.5,40,50,63,80,100,125,160	40	76	403	4.15
G0034	WKN.O	XBNM1	7.2	200,224	40	76	403	4.15
G0035		XBNM1	10	25,31.5,40,50,63,80,100,125,160,200,224	40	76	600	5.26

注:在规定的使用条件下,熔断器最小开断电流为熔断器额定电流的2.5~3倍。 7.2KV>224A为双管

^{3.6}KV>400A为双管

Notes: Under stipulated condition, min. breaking current of fuses could be as high as 2.5~3 times than rated current.

^{7.2}KV fuse link of 224A or above have a dual-tube body 3.6KV fuse link of 400A or above have a dual-tube body

W型电动机保护用插入式熔断器外形尺寸 (mm) Dimension of motor protection fuse type W for busbar installation (mm)

序号 No.	尺寸 Dimensions 代号Code 型号 Model	А	В	С	D	E	F
30036	WFF,O	390	312	209	340	140	246
G0037	WKF.O	390	312	209	340	140	246
G0038	WFN.O	500	461	358	150	160	266
G0039	WKN.O	500	461	358	150	160	266
G0040	XRNM1	690	659	555	350	160	266

W型电动机保护用限流熔断器的选择 Selection for Witype motor current-limiting fuse

在全电压启动时,熔断器的额定电流≈电动机满载电流的2倍;在其它方式启动时,熔断器的额定电流≈电动机满载电流的1.5倍。 用于直接 启动的电动机 其熔断器额定电流的选择按下列公式选择。

When started with full voltage. Rated current ≈ twice of loaded motor current: When started under other circumstances rated current ≈ 1.5 times of loaded motor current. For directly started motor, fuses of proper rated current should be selected according to the following formula;

N —— 启动电流与满载电流之比。通常N≈6 Ratio of starting current and loaded current usually N≈6 In --- 电动机满载电流 loaded motor current

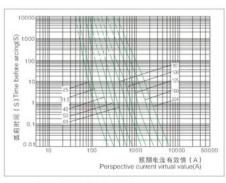
Φ—— 综合系数,接下列表选取 comprehensive coefficient, see the table below

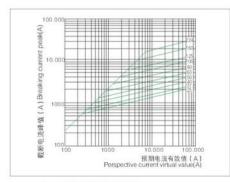
每小时启动次数 Start times	2	4	8	16
Φ	1.7	1.9	2.1	2.3

将启动时间对应的ly值的点绘制在时间-电流特性曲线上,点对应的曲线或靠近这一点右边的曲线即是所选用的熔断器,熔断器额定 电流应该大于1.3倍电动机的满载电流。

Refer to time-current characteristic diagram for selection of proper H.V.fuse link, Rated current of fuse link should be 1.3 times than loaded motor current.

特性曲线 Characteristics Curve

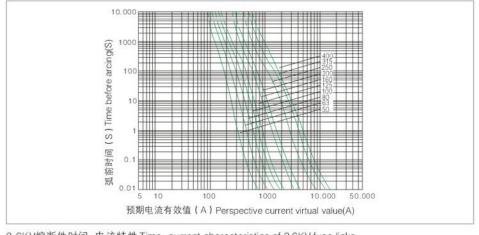




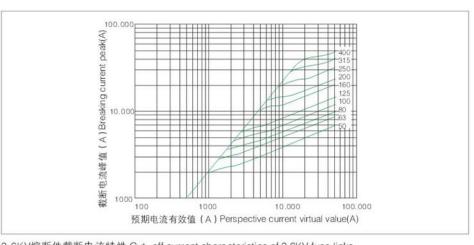
XRNM1型10KV熔断件截断电流特性 Cut-off current characteristics of 10KV fuse links type XRNM1

XRNM1型10KV熔断件时间-电流特性 Time-current characteristics of 10KV fuse links type XRNM1

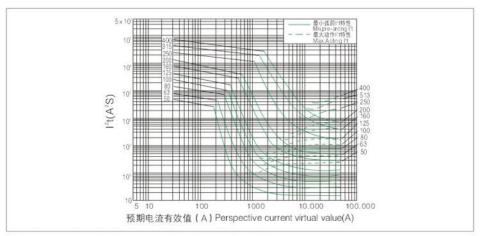
特性曲线 Characteristics Curve



3.6KV熔断件时间-电流特性 Time-current characteristics of 3.6KV fuse links

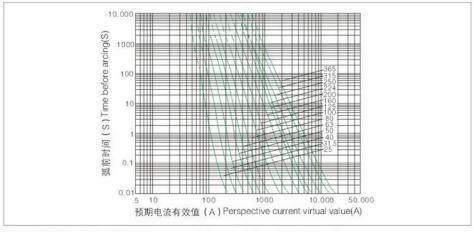


3.6KV熔断件截断电流特性 Cut-off current characteristics of 3.6KV fuse links

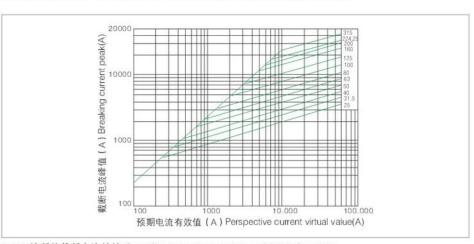


3.6KV熔断件I².t特性 I².t characteristics of 3.6KV fuse links

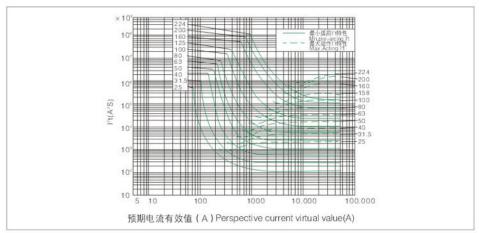
特性曲线 Characteristics Curve



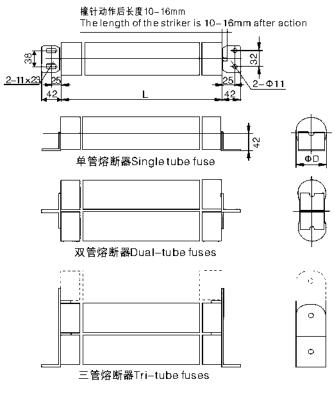
7.2KV熔断件时间-电流特性 Time-current characteristics of 7.2KV fuse links



7.2KV熔断件截断电流特性 Cut-off current characteristics of 7.2KV fuse links



7.2KV熔断件I2.t特性 I2.t characteristics of 7.2KV fuse links



母线式熔断器 Fuses busbar installation