

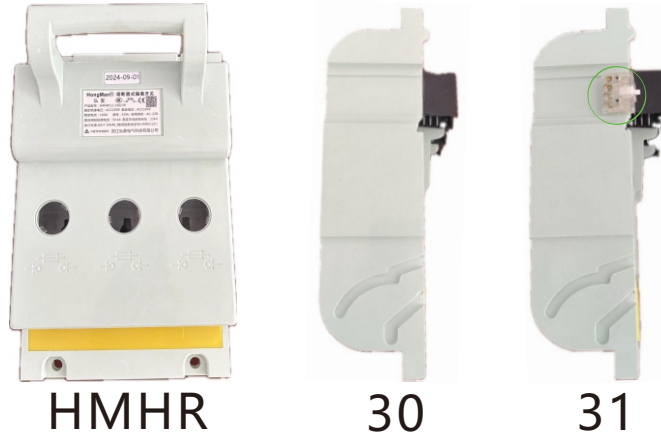
HMHR6-250/30、HMHR6-250/31, **AC690V**、**AC500V**、**AC400V**; HMHR8-160/30、HMHR8-160/31, **AC800V**;
HMHR10-160/30、HMHR10-160/31, **AC1000V**; HMHR11-160/30、HMHR11-160/31, **AC1140V**

系列熔断器式隔离开关规格说明书

Specification manual for series fuse type isolating switch

1、产品照片

Product photos



2、型号解释

Model explanation

HM HR□ -□/□□

开合位置型号代号 “0”代表无开合信号装置 “1”代表有开合信号装置
Opening and closing position model code “0” Representing no opening and closing signal device
“1” Representing the presence of opening and closing signal devices

极数, 3-3P,
Number of poles , 3-3P,

约定发热电流 $I_e=I_{th}(A)$: 0.5A、1A、2A、3A、4A、5A、6A、10A、16A、20A、25A、32A、40A、50A、63A、80A、90A、100A、125A、160A、180A、200A、224A、250A、
Conventional thermal current

额定工作电压代号: “6”代表AC690V及以下; “8”代表AC800V; “10”代表AC1000V “11”代表AC1140V
Rated working voltage code: “6”represents AC690V and below; “8”represents AC800V; “10”represents AC1000V, and “11” represents AC1140V

熔断器式隔离开关
fuse switch disconnecter

企业代号: 浙江弘曼电气科技有限公司出品
Enterprise code: Produced by Zhejiang Hongman Electric Technology Co., Ltd

3、技术参数

Technical Parameter

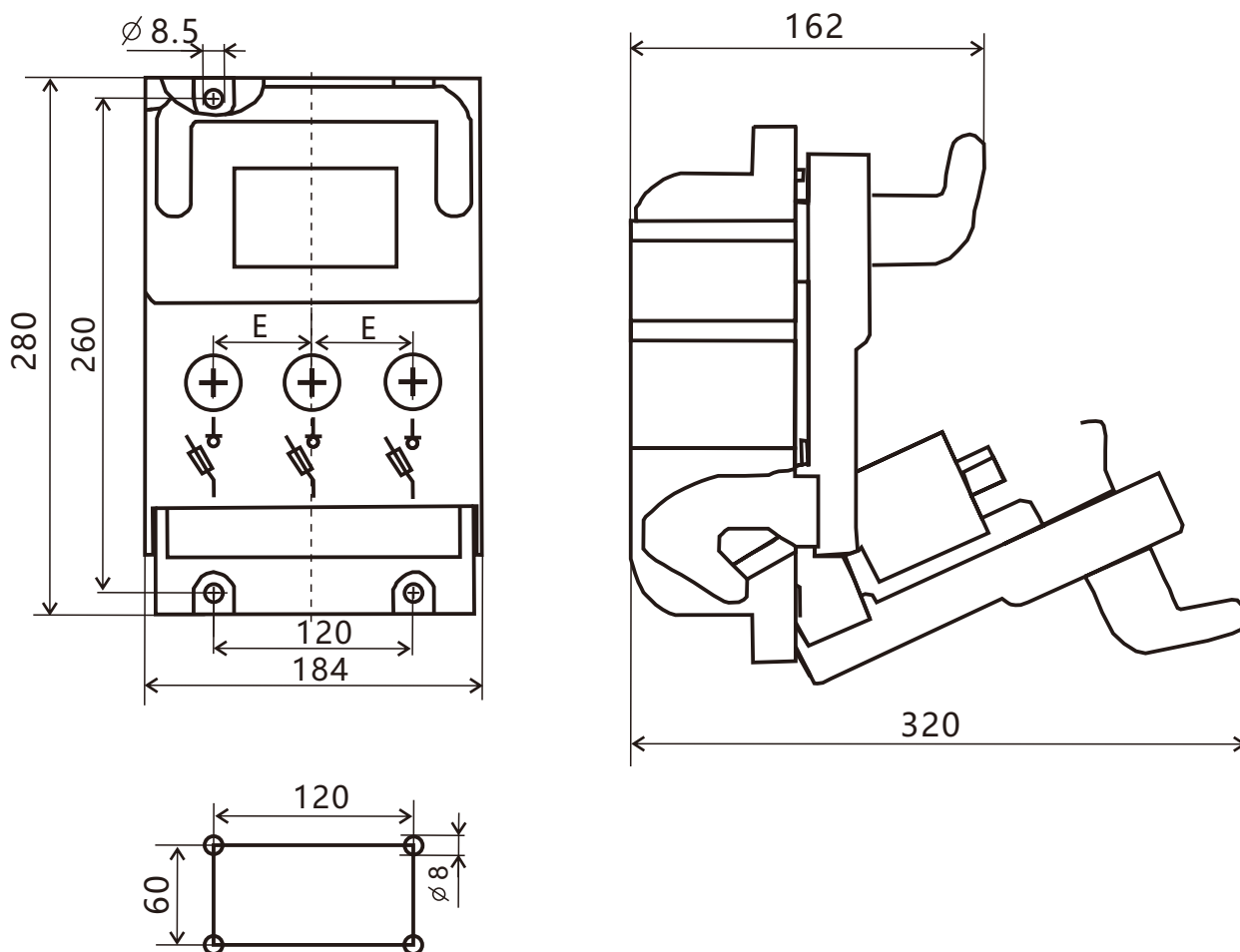
熔断器式隔离开关型号 Model of fuse type isolation switch	HMHR6-250/30 HMHR6-250/31	HMHR8-160/30 HMHR8-160/31	HMHR10-160/30 HMHR10-160/31	HMHR11-160/30 HMHR11-160/31
额定绝缘电压: U_i Rated insulation voltage: U_i	AC1250V	AC1250V	AC1250V	AC1250V
额定工作电压 U_e : Rated working voltage U_e :	AC690V、AC500V、AC400V	AC800V	AC1000V	AC1140V
额定冲击耐受电压 U_{imp} Rated impulse withstand voltage U_{imp}	12kV	12kV	12kV	12kV
额定工作电流 I_e Rated working current I_e 约定自由空气发热电流 I_{th} Agreed free air heating current I_{th} 可配熔断体额定电流 I_n Can be equipped with fuse rated current I_n	0.5A、1A、2A、3A、4A、5A、6A、10A、16A、20A、25A、32A、40A、50A、63A、80A、90A、100A、125A、160A、180A、200A、224A、250A	0.5A、1A、2A、3A、4A、5A、6A、10A、16A、20A、25A、32A、40A、50A、63A、80A、90A、100A、125A、160A	0.5A、1A、2A、3A、4A、5A、6A、10A、16A、20A、25A、32A、40A、50A、63A、80A、90A、100A、125A、160A	0.5A、1A、2A、3A、4A、5A、6A、10A、16A、20A、25A、32A、40A、50A、63A、80A、90A、100A、125A、160A
峰值耐受电流 I_q Peak withstand current I_q	50kA	50kA	50kA	50kA
短时耐受电流 I_{cw} Short time withstand current I_{cw}	15kA	15kA	15kA	15kA
使用类别 Utilization category	AC-22B	AC-22B	AC-22B	AC-22B
必配熔断体型号 Required fuse type	HMRS12C1	HMRS12C1	HMRS12C1	HMRS12C1

4 尺寸图

Dimension

4.1 开关的尺寸图

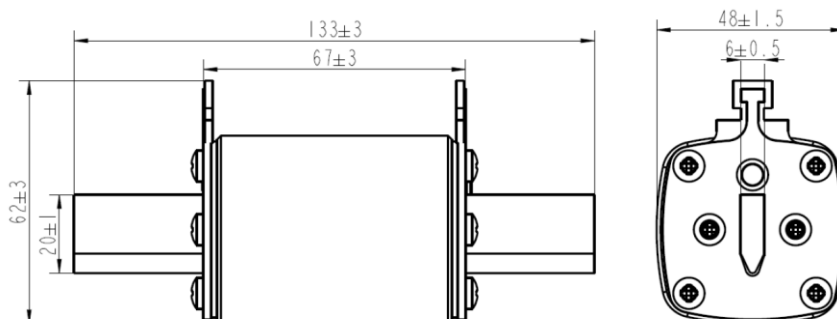
Dimensional diagram of the switch



注：该四个孔距为取掉上盖，基座的安装尺寸

4.2 配套熔断体HMRS12C1尺寸图

Dimensional diagram of supporting fuse HMRS12C1



5 使用与维护

Use and maintenance

■ 工作和安装条件

Working and installation conditions

► 海拔≤2000m

Altitude≤2000m

IEC规定了常规的大气动作条件。熔体在2000米以下性能不会改变，海拔2000米以上，熔断器与其他带电结构间，以及对地的绝缘间隙，需要由用户考虑海拔高度的影响，熔体的额定电流需要每上升100米，降额使用0.5%，熔体的工作电流高于2000米海拔时为：

$$I_{\text{工作电流}} = I_{n_{\text{熔断体额定电流}}} \times \left\{ 1 - \frac{(h_{\text{海拔}} - 2000)}{100} \times \frac{0.5}{100} \right\}$$

举例：熔断体额定电流32A,在海拔3000米的工作电流为：

$$I_{\text{工作电流}} = I_{n_{32A}} \times \left\{ 1 - \frac{(3000-2000)}{100} \times \frac{0.5}{100} \right\} = 30.4A。$$

The IEC specifies conventional atmospheric operating conditions. The performance of the melt will not change below 2000 meters. When the altitude is above 2000 meters, the insulation gap between the fuse and other charged structures, as well as the insulation gap to the ground, needs to be considered by the user. The rated current of the melt needs to be reduced by 0.5% for every 100 meters increase. When the working current of the melt is above 2000 meters altitude, it is:

$$I_{\text{Working current}} = I_{n_{\text{Rated current of fuse link}}} \times \left\{ 1 - \frac{(h_{\text{Altitude}} - 2000)}{100} \times \frac{0.5}{100} \right\}$$

For example, the rated current of the fuse link is 32A, and the working current at an altitude of 3000 meters is:

$$I_{\text{Working current}} = I_{n_{32A}} \times \left\{ 1 - \frac{(3000-2000)}{100} \times \frac{0.5}{100} \right\} = 30.4A。$$

► 大气条件

Atmospheric conditions

温度：安装地点的空气相对湿度在最高温度为+60°C时不超过50%；在最低温度下可允许有较高相对湿度，最湿月的月平均最低温度不超过-25°C，该月的月平均最大相对湿度不超过90%。由于温度变化会发生在产品上的凝露情况必须采取措施。

Temperature: The relative humidity of the air at the installation site shall not exceed 50% at a maximum temperature of +60 °C; Higher relative humidity is allowed at the lowest temperature, with the wettest The monthly average minimum temperature of the month shall not exceed -25 °C, and the monthly average maximum relative humidity of the month shall not exceed 90%. Due to temperature changes, condensation can occur on the product Measures must be taken to expose the situation.

► 污染等级：3。

Pollution grade: 3。

► 安装类别：Ⅲ。

Installation category: Ⅲ。

- ▶ 熔断器应安装在无显著摇动和冲击振动的地方。

The fuse should be installed in a place without significant shaking and shock vibration.

- ▶ 关于熔断器周围空气温度降容的说明

Explanation on the temperature drop of the air around the fuse

正常环境温度: $-5^{\circ}\text{C} \sim 40^{\circ}\text{C}$,

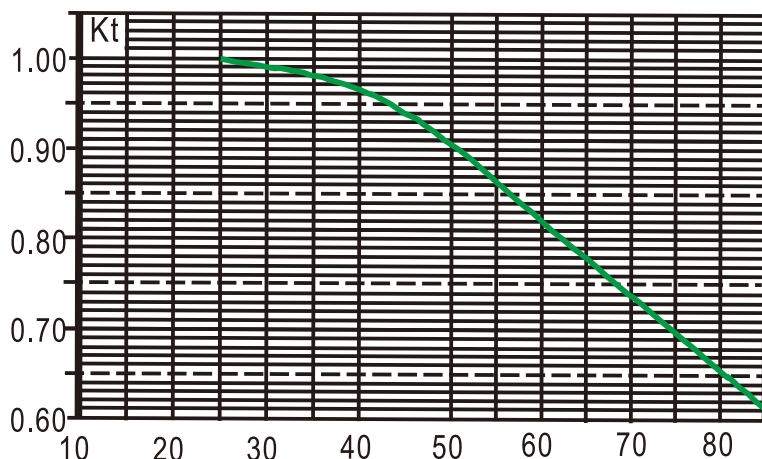
Normal ambient temperature: $-5^{\circ}\text{C} \sim 40^{\circ}\text{C}$,

允许环境温度: $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$

Allowable ambient temperature: $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$

周围空气温度变化的参数修正, 在低于 -5°C 条件下工作, 熔断器的低倍数过载的弧前时间略有延长, 额定电流略有增加, 但是除非 -5°C 以上不是工作范围, 一般不考虑增加熔断器额定电流。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 $-K_t$ 。

Parameter correction for changes in ambient air temperature. When operating under conditions below -5°C , the pre arc time of the low multiple overload of the fuse is slightly extended, and the rated current is slightly increased. However, unless -5°C or above is not within the operating range, it is generally not considered to increase the rated current of the fuse. The fuse operates above 40°C , and the rated current requires additional correction, with a correction factor of $-K_t$.



周围空气温度
ambient air temperature

■ 正确操作 correct operation

该产品在较高电压(大于 690V)系统中主要其保护功能, 不能带载操作,要合好开关后再送电, 反之会出现熔芯熔断保护的现象.熔芯是损耗件,过载、短路、带载操作均可能导致熔芯熔断保护, 建议项目采购时多采购熔芯以备急需之用。

This product mainly serves as a protective function in high voltage (greater than 690V) systems and cannot be operated under load. The switch must be closed before powering on, On the contrary, there will be a phenomenon of fuse protection. The fuse is a consumable component, and overload, short circuit, and load operation may all cause fuse protection, It is recommended to purchase more molten cores during project procurement for urgent needs.

■ 安装维护

Installation And Maintenance

- ▶ 开关需垂直安装后才能投入正常运行，安装时需先将盖板扯下。

The switch needs to be installed vertically before it can be put into normal operation. During installation, the cover plate needs to be pulled off first.

- ▶ 开关应配用本文件规定的熔断体

The switch should be equipped with the fuse specified in this document

- ▶ 更换熔断体式应断开负载电路，并将开关盖打开或扯出，轻轻按动熔断体安装卡板下面的弹簧片更换的熔断体即可从盖上取下，新的熔断体直接沿卡槽口处推上即可。

To replace the fuse type, the load circuit should be disconnected, and the switch cover should be opened or pulled out. Gently press the spring plate under the fuse installation card to replace the fuse. You can remove it from the cover and push the new fuse directly up along the slot opening.

- ▶ 灭弧室虽可简单地从插座拔出或插入，但应尽量避免不必要的拆卸，灭弧室的安装必须十分仔细小心，一定要插入底面。

Although the arc extinguishing chamber can be easily pulled out or inserted from the socket, unnecessary disassembly should be avoided as much as possible, and the installation of the arc extinguishing chamber must be very careful. Be sure to insert the bottom surface.

- ▶ 开关的触头应经常检查，清理灰尘和油污等物，操作机构的摩擦处应定期加油，使其动作灵活，延长使用寿命。

The contacts of the switch should be regularly inspected, cleaned of dust and oil stains, and the friction points of the operating mechanism should be lubricated regularly to make their movements flexible and extend their service life.

