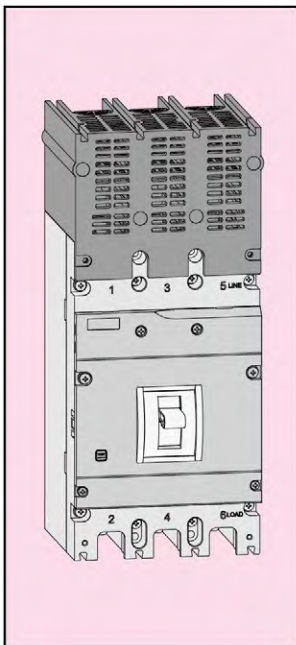


HNM3-HU/HV 高电压 产品使用说明书

HNM3-HU/HV Series User Manual



触电危险!
Electric Current!
Danger to life!

只允许专业人员和受过专业
训练的人员进行下列工作

Only skilled or instructed persons may
carry out the following operations

伊顿辉能低压电器(江苏)有限公司
Eaton Huineng Low-Voltage Electrical (Jiangsu) Co., Ltd.

HNM3-2HU1/2HU2/2HU3/2HV

接线 Connection	6	GB70.1 M8X25 GB93 8 GB97.1 8	
断路器安装 Installation of Circuit-breaker	4	GB9074.8 M4X100	
端子罩安装 Installation of terminal cover	2	GB9074.8 M3X10	
	4	GB9074.8 M4X75	

mm

内六角扳手 Hexagon wrench
十字螺丝刀 Cross screwdriver

板前接线 Front Panel Connection

HNM3-2HU1/2HU2/2HU3/2HV

带转接板
With terminal expander

板前接线
Front Panel Connection

HNM3-2HU1/2HU2/2HU3/2HV

不带转接板
Without terminal expander

GB70.1 M8X25
GB93 8
GB97.1 8

极间距扩展器连接 Connection terminal between poles

直端子扩展器连接 Straight Terminal Extender Connection

注意 Note

- 此转接板非标配, 须选配;
This terminal expander is not standard matching and needs to be matched.
- 1, 3, 5侧转接板只可配直排; 2, 4, 6转接板可选直排扩展或弯排。
Sides 1,3,5 terminal expander can only be matched with straight bar; 2,4,6 terminal expander can choose both straight bar or extend bent bar.

GB70.1 M8X20
GB93 8
GB97.1 8

端子罩安装 Installation of Terminal cover

HNM3-2HU1/2HU2/2HU3/2HV

绝缘板 Insulation board
铜螺母M4 Hex nut M4
端子罩 Terminal cover
端子罩固定 Terminal cover mounting screws
断路器固定 Mounted case circuit breaker mounting screws

GB9074.8 M3X10
GB9074.8 M4X75
GB97.1 4
GB6170 M4

GB9074.8 M3X10
GB9074.8 M4X100
GB97.1 4
GB6170 M4

* 断路器须固定在柜体的底板或横梁上
Ensure the circuit breaker is fixed to the plate or the beam of the cabinet.

注: 用户使用时, 断路器1、3、5端子侧按图示装配端子罩; 并在断路器与金属安装板之间必须安装绝缘板
Note: When users use, terminal cover should be assembled on terminals 1,3 and 5 of circuit breaker according to graphics. Insulation board is installed between circuit breaker and metal installation board.

注: 标配
Note: Standard

进线端 Line
出线端 Load

绝缘板 Insulation board

注意 Note

- 必须安装绝缘板; Insulation board must be installed.
- 若出线端 $F < 8\text{mm}$, 必须加大绝缘板尺寸。
If $F < 8\text{mm}$ at the load, the insulation board must be enlarged.

相间隔板 (K6) 安装 Installation of phase separator(k6)

HNM3-2HU1/2HU2/2HU3/2HV

相间隔板(短) Phase spacer (short)
绝缘板 Insulation board
端子罩 Terminal cover
相间隔板(长) Phase spacer (long)

**注意方向
Attention direction**

注1: 绝缘板为标配, 如横梁安装可自行截短, 但需要保证尺寸 $H \geq 40\text{mm}$;
Note1: Insulation board is standard configuration. If the beam is installed, it can be cut off by itself, but the dimension $H \geq 40\text{mm}$ should be ensured.

注2: 相间隔板标配为6个, 3短3长, 并排安装的断路器数量 ≥ 2 台时, 边相的相间隔板请保持安装位置一致(都装在A相侧或者都装在C相侧), 靠近金属柜体断路器的边相, 需要多加1长1短。
Note2: The standard configuration of interphase separators is 6, and 3 short and 3 long. When the number of circuit breakers installed side by side is ≥ 2 , please keep the installation position of the interphase claspboard of the side phase consistent (all installed on phase A side or phase C side), 1 long and 1 short (interphase separator) should be added for the side phase of the circuit breaker close to the metal cabinet.

断路器安装 Circuit breaker installation

两个相邻断路器之间最小间距
The minimum spacing between adjacent circuit breakers

断路器与顶部、底板和侧板之间最小间距
The minimum spacing of the trip, baseplate and side plate of the circuit breaker

板前接线时接线排的最短绝缘长度
The minimum insulation length of wiring bar when it is front panel connection

断路器与前面板之间最小间距
The minimum spacing between the circuit breaker and front panel

相间隔板
Phase separator

端子罩
Terminal cover

型号 Model	距离 Distance (mm)						
	A	B	C	D1	D2	E	F
HNM3-2HU1/2HU2/2HU3/2HV	150	228	30	146	30	178.9	350

绝缘板 Insulation board
金属板 Metal board

注: 用户使用时, 断路器1、3、5端子侧按图示装配端子罩及相间隔板, 断路器2、4、6侧应按图示装配相间隔板, 并在断路器与金属安装板之间安装绝缘板。
Note: When users use, terminal cover and short phase separator should be assembled on terminals 1,3 and 5 of circuit breaker according to graphics. Long phase separator should be assembled on terminals 2,4 and 6 of circuit breaker according to graphics. Insulation board is installed between circuit breaker and metal installation board.

电气附件安装 Electrical accessories installation

HNM3-2HU1/2HU2/2HU3/2HV

绝缘件 Insulator
分励 (SHT) Shunt release
欠压 (UVT) Undervoltage release
辅助报警 (AX/AL) Auxiliary/Alarm

注意 Note

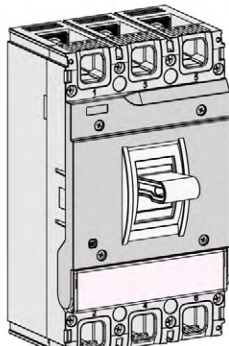
所有附件请在断路器脱扣状态下(手柄处于中间Trip位置)安装。
All accessories should be installed in the tripping state of circuit breaker (the handle in the middle position which is marked as "Trip")


内部附件引线连接图 Lead direction of internal accessories

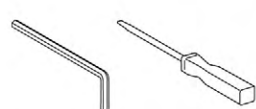
注意 Note

附件安装好后, 附件引线须从图示引线槽中穿出, 应避免上盖安装时出现压线隐患!
After the accessories are installed, the accessory lead must pass through the lead groove as shown in the figure to avoid the hidden danger of wire pressing during the installation of the upper cover!

HNM3-3HU



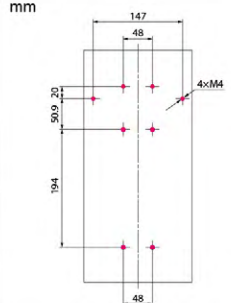
接线 Connection	6	GB70.1 M10X25 DIN6796 Φ10	
断路器安装 Installation of Circuit-breaker	4	GB9074.7 M6X65 GB97.1 6 GB6170 M6	
端子罩安装 Installation of terminal cover	2	GB845 ST2.9X9.5C	
	4	GB9074.8 M4X50	



内六角扳手
Hexagon wrench

十字螺丝刀
Cross screwdriver

mm

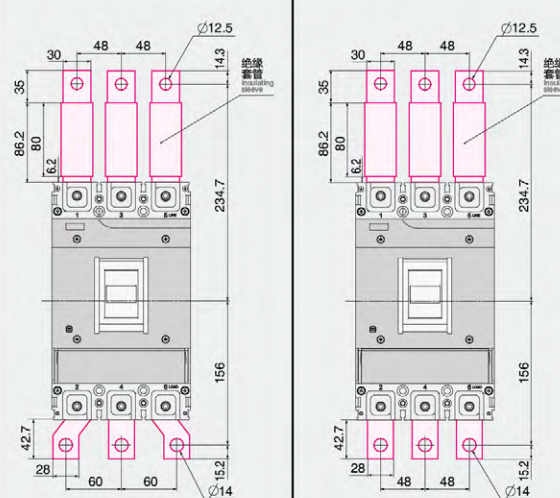


极间距扩展器连接

Connection terminal between poles

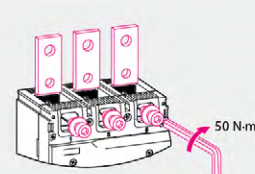
直端子扩展器连接

Straight Terminal Extender Connection



注意 Note

- 此转接板非标配，须选配；
This terminal expander is not standard matching and needs to be matched.
- 1, 3, 5侧转接板只可配直排；2, 4, 6转接板可选直排扩展或弯排。
Sides 1,3,5 terminal expander can only be matched with straight bar; 2,4,6 terminal expander can choose both straight bar or extend bent bar.



50 N·m

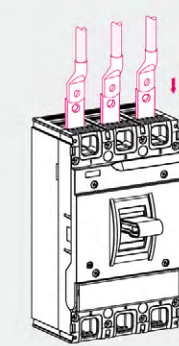
GB70.1 M10X25
DIN6796 Φ10

板前接线

Front Panel Connection

HNM3-3HU

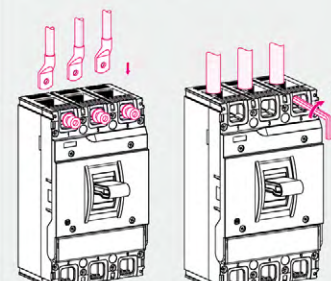
带转接板
With terminal expander



板前接线
Front Panel Connection

HNM3-3HU

不带转接板
Without terminal expander



50N·m

GB70.1 M10X25
DIN6796 Φ10


安全间距

Safe distance

HNM3-3HU

GB845 ST2.9X9.5C
GB9074.8 M4X50

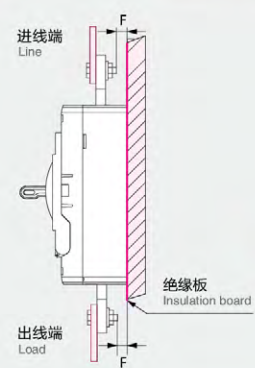
注：标配
Note: Standard



注：用户使用时，断路器1、3、5端子侧按图示装配端子罩；并在断路器与金属安装板之间必须安装绝缘板，注意绝缘板铆螺母的安装方向。
Note: When used by the user, the terminal covers need to be installed on the side 1, 3, 5 of the circuit breaker. Insulation board is installed between circuit breaker and metal installation board. Pay attention to the installation direction of the riveting nut on the insulating board.

注：断路器须固定在柜体的底板或横梁上
Ensure the circuit breaker is fixed to the plate or the beam of the cabinet.

进线端
Line



出线端
Load

绝缘板
Insulation board

注意 Note

- 必须安装绝缘板；
Insulation board must be installed.
- 若出线端F<8mm，必须加大绝缘板尺寸。
If F<8mm at the load, the insulation board must be enlarged.

相间隔板 (K6) 安装

Phase separator (K6)

HNM3-3HU

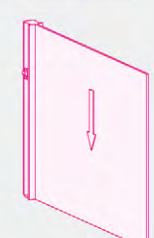
短相间隔板
Short phase spacer

端子罩
Terminal cover

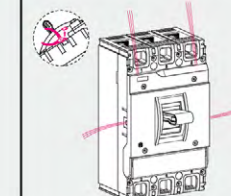
绝缘板
Insulation board

长相间隔板
Long phase spacer

注意方向
Attention direction



内部附件引线连接图
Lead direction of accessories




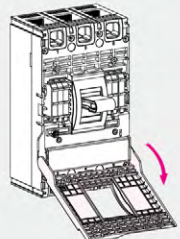
附件 Name	安装位置 Position	附件 Name	安装位置 Position
SHT	L2+L3/R2+R3	AX	L1/L2/L3/R1/R2/R3
UVT	L2+L3/R2+R3	AL	L1/L2

电气附件安装

Electrical accessories installation

HNM3-3HU

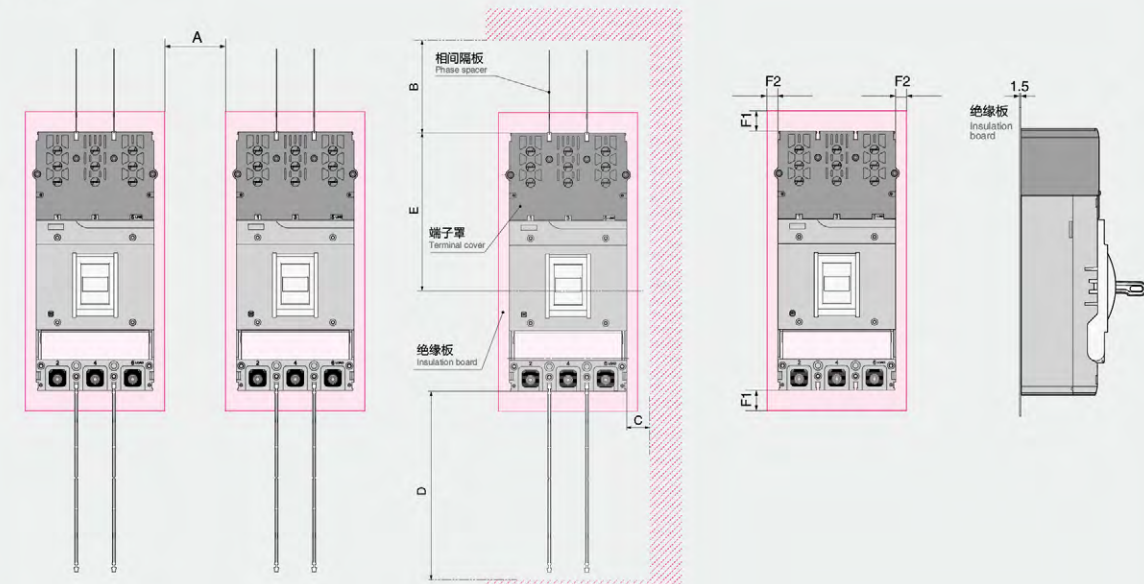
绝缘件 Insulator	分励 (SHT) Shunt release
欠压 (UVT) Undervoltage release	辅助报警 (AX/AL) Auxiliary/Alarm

断路器安装

Circuit breaker installation

HNM3-3HU



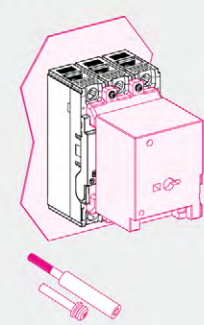
型号 Model	A	B	C	D	E	F1	F2
HNM3-3HU	30	150	30	180	201.5	26	14

注：用户使用时，断路器1、3、5侧接至变压器侧，并按图示装配端子罩与相间隔板；2、4、6侧接至逆变器侧，并按图示装配相间隔板，并在断路器与金属安装板之间安装绝缘板。
Note: When used by the user, terminals 1,3 and 5 of the circuit breaker connect to transformer side and install terminal cover and phase separator according to graphics. Terminals 2,4 and 6 connect to inverter side and install phase separator according to graphics. Insulation board is installed between circuit breaker and metal installation board.

电动操作机构(CD)

Motor operator

HNM3-3HU

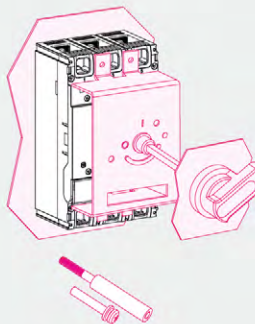


GB9074.8 M6X12
GB6170 M6

转动手柄操作机构(CS)

Rotary handle operator

HNM3-3HU



GB9074.8 M6X12
GB6170 M6