

CH3 小型断路器 CH3Z 小型直流断路器 CH3G 隔离开关

使用说明书

1 使用前有关事项

收到您订购的产品后，请打开包装盒检查以下各项：

- 1) 检查外观有无任何在运输过程中发生的损坏，如外壳的破坏等。
- 2) 包装盒内除产品本体外，还有产品合格证等，请逐一检查。

2 安装

用 TH35 型标准导轨垂直安装。

产品型号	进线方式	接线能力	接线极限扭矩
CH3N-40	上下均可	≤16mm ²	3Nm
CH3N-63	上下均可	≤25mm ²	3Nm
CH3H-63	上下均可	≤25mm ²	3Nm
CH3TMH-63	上下均可	≤25mm ²	3Nm
CH3Z-63	按正负极性接线	≤25mm ²	3Nm
CH3H-125	上下均可	≤50mm ²	5.6Nm
CH3G-125	上进线	≤50mm ²	3Nm

3 正常使用条件和安装条件

- 周围空气温度为-5℃~+40℃。
- 安装地点的海拔不超过 2000m。
- 安装地点的空气相对湿度在最高温度为+40℃时不超过 50%，在较低温度下可以有较高的相对湿度，例如 20℃时达 90%。对由于温度变化偶尔产生的凝露应采取特殊措施。
- 防护等级为 IP20。
- 可运行条件：周围空气温度可低至-25℃、高至+70℃（详见样本环境温度-电流对照表）。

4 断路器的额定电压

产品型号	额定工作电压(V)
CH3N-40	AC230
CH3N-63	AC230/AC400
CH3H-63	AC230/AC400
CH3TMH-63	AC230/AC400
CH3Z-63	DC125/DC250/DC500
CH3H-125	AC230/AC400
CH3G-125	AC250/AC400

5 产品宽度

	宽度(mm)				
	1P	1N	2P	3P	4P
CH3N-40		18			
CH3N-63	18	36	36	54	72
CH3H-63	18		36	54	72
CH3TMH-63	18		36	54	72
CH3Z-63	18		36		
CH3H-125	27		54	81	108
CH3G-125	18		36	54	72

6 附件

附件都拼装于左侧。

各产品可拼装附件如下，但拼装组合须按下述拼装规则(●：可拼装；×：不可拼装)：

	OF3	SD3	MX+OF3	G3	Q3A	GQ3A	FDC3H	LDC3H	最多可拼装附件数
CH3N-40	●	●	●	●	●	●	×	×	3
CH3N-63	●	●	●	●	●	●	●	×	3
CH3H-63	●	●	●	●	●	●	●	×	3(除 LDC3H 外)
CH3TMH-63	●	●	●	●	●	●	●	×	3
CH3Z-63	●	●	●	●	●	●	●	×	3
CH3H-125	×	×	×	×	×	×	×	×	0
CH3G-125	●	×	×	×	×	×	×	×	2

注：CH3H-63 在拼装 LDC3H 的情况下，仍然可按上表最多可拼装 3 个其余附件。

拼装规则如下：

	当安装 1 只附件时	当安装 2 只附件时	
选择其中之一	附件 2 选择其中之一	附件 1 选择其中之一	
不装 FDC3H 的组合	• OF3 辅助触头 • SD3 报警触头 • MX+OF3 分励脱扣器 • G3 过电压保护单元 • Q3A 欠电压保护单元 • GQ3A 过欠压保护单元	• OF3 辅助触头 • SD3 报警触头 • MX+OF3 分励脱扣器 • G3 过电压保护单元 • Q3A 欠电压保护单元 • GQ3A 过欠压保护单元	• OF3 辅助触头 • SD3 报警触头
拼装 FDC3H 的组合	• FDC3H 电动操作模块	• OF3 辅助触头 • SD3 报警触头	• FDC3H 电动操作模块
	当安装 3 只附件时		
附件 3 选择其中之一	附件 2 选择其中之一	附件 1 选择其中之一	
不装 FDC3H 的组合	• MX+OF3 分励脱扣器 • G3 过电压保护单元 • Q3A 欠电压保护单元 • GQ3A 过欠压保护单元	• OF3 辅助触头 • SD3 报警触头	• OF3 辅助触头 • SD3 报警触头
拼装 FDC3H 的组合	• MX+OF3 分励脱扣器 • G3 过电压保护单元 • Q3A 欠电压保护单元 • GQ3A 过欠压保护单元	• OF3 辅助触头 • SD3 报警触头	• FDC3H 电动操作模块

	MX+OF3、G3、Q3A 和 GQ3A 在安装时，附件的推杆置于断路器手柄上方。
	OF3 和 SD3 安装时，附件的推杆对准断路器手柄槽孔安装。

安全规程

本产品必须依照安装规范，最好由拥有相关资质的电工进行安装。不正确的安装和使用将可能导致触电或火灾危险。

在进行安装前，请仔细阅读说明书，并应考虑到产品专用安装地点的情况。除非说明书特别注明，否则不得拆开、拆卸或改动设备。常熟开关制造有限公司的任何产品只能由经常熟开关制造有限公司培训并获得相关资质的人员拆开或修理。用户未经许可自行拆开或修理，制造商不负任何责任，同时取消其更换和保修的权利。

本产品只能使用常熟开关制造有限公司品牌的配件。

咨询服务：4008282528

售后服务：0512-52846869



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CH3 Miniature Circuit Breakers CH3Z Miniature DC Circuit Breakers CH3G Switch Disconnecter

Manual

1 Notice before using

After receiving your order, please open the box and check the following items:

1) Check appearance of the product whether there are any damages which occurs in transportation, such as damage of enclosure.

2) Confirm that there are product devices in the box, as well as product certifications, etc. Please check them one by one.

2 Installation

Vertical mounting with standard type TH35.

Product	Power supply	Cable cross-section	Max tightening torque
CH3N-40	top or bottom	≤16mm ²	3Nm
CH3N-63	top or bottom	≤25mm ²	3Nm
CH3H-63	top or bottom	≤25mm ²	3Nm
CH3TMH-63	top or bottom	≤25mm ²	3Nm
CH3Z-63	Identified by + and -	≤25mm ²	3Nm
CH3H-125	top or bottom	≤50mm ²	5.6Nm
CH3G-125	top	≤50mm ²	3Nm

3 Regular working conditions and mounting conditions

- Ambient air temperature -5°C ~ +40°C.
- The altitude of the site of installation does not exceed 2000m.
- The relative humidity of the air does not exceed 50% at a maximum temperature of +40°C. Higher relative humidity may be permitted at lower temperatures, e.g. 90% at +20°C. Special measures may be necessary in cases of occasional condensation due to variations in temperature.
- Degree of protection IP20.
- Service condition: The ambient temperature can be as low as -25°C and as high as +70°C (the ambient temperature - current comparison chart in the technical manual for more details).

4 Rated operational voltage

Product	Rated operational voltage(V)
CH3N-40	AC230
CH3N-63	AC230/AC400
CH3H-63	AC230/AC400
CH3TMH-63	AC230/AC400
CH3Z-63	DC125/DC250/DC500
CH3H-125	AC230/AC400
CH3G-125	AC250/AC400

5 Width

	Width(mm)				
	1P	1N	2P	3P	4P
CH3N-40		18			
CH3N-63	18	36	36	54	72
CH3H-63	18		36	54	72
CH3TMH-63	18		36	54	72
CH3Z-63	18		36		
CH3H-125	27		54	81	108

CH3G-125	18		36	54	72
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6 Auxiliaries

Auxiliaries are clipped on the left of the products.

Possible combinations with auxiliaries (●:It can be combined; ×:It can't be combined):

	OF3	SD3	MX+OF3	G3	Q3A	GQ3A	FDC3H	LDC3H	Max number
CH3N-40	●	●	●	●	●	●	×	×	3
CH3N-63	●	●	●	●	●	●	●	×	3
CH3H-63	●	●	●	●	●	●	●	●	3(Excluding LDC3H) ^{*)}
CH3TMH-63	●	●	●	●	●	●	●	×	3
CH3Z-63	●	●	●	●	●	●	●	×	3
CH3H-125	×	×	×	×	×	×	×	×	0
CH3G-125	●	×	×	×	×	×	×	×	2

* After the CH3H-63 is combined with LDC3H, the rest of the auxiliaries can still be combined according to the table above.

The combinations sequence is as follows:

	When only combine one auxiliary		When combine two auxiliaries	
	One of the following		2nd One of the following	1st One of the following
without FDC3H	• OF3 auxiliary contact • SD3 alarm contact • MX+OF3 Shunt release • G3 Overvoltage release • Q3A Undervoltage release • GQ3A Undervoltage & overvoltage release		• OF3 auxiliary contact • SD3 alarm contact • MX+OF3 Shunt release • G3 Overvoltage release • Q3A Undervoltage release • GQ3A Undervoltage & overvoltage release	• OF3 auxiliary contact • SD3 alarm contact
with FDC3H	• FDC3H motor driven remote control module		• OF3 auxiliary contact • SD3 alarm contact	• FDC3H motor driven remote control module
	When combine three auxiliaries			
	3rd One of the following			
without FDC3H	• MX+OF3 Shunt release • G3 Overvoltage release • Q3A Undervoltage release • GQ3A Undervoltage & overvoltage release			
with FDC3H	• MX+OF3 Shunt release • G3 Overvoltage release • Q3A Undervoltage release • GQ3A Undervoltage & overvoltage release			
	2nd One of the following		1st One of the following	
without FDC3H	• OF3 auxiliary contact • SD3 alarm contact		• OF3 auxiliary contact • SD3 alarm contact	
with FDC3H	• OF3 auxiliary contact • SD3 alarm contact		• FDC3H motor driven remote control module	

	When combining one of MX+OF3, G3, Q3A, GQ3A, its linkage lever should be placed above the circuit breaker handle.
	When combining OF3 or SD3, their linkage levers should be inserted into the slot of the circuit breaker handle.

Safety Procedures

This product must be installed in accordance with installation specifications, preferably by a qualified electrician. Incorrect installation and use may result in electric shock or fire hazard. Before installing, please carefully read the instructions and consider the specific installation location for the product. Unless specified in the instruction manual, the equipment shall not be opened, disassembled, or modified. Any product of Changshu Switch Manufacturing Co., Ltd. can only be disassembled or repaired by personnel trained and qualified by Changshu Switch Manufacturing Co., Ltd. The manufacturer shall not be responsible for any unauthorized disassembly or repair by the user, and the right of the users to replace and warranty shall be revoked. This product can only use accessories from Changshu Switch Manufacturing Co., Ltd.

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