



DHECN[®]

DH Series

Fuse Switch Disconnecter
Selection Manual



DONGHUA ELECTRIC STOCK CO., LTD. OF ZHEJIANG

DH Series Fuse Switch Disconnecter

Version Number: 202312

Current Class: 160A、250A、400A、630A

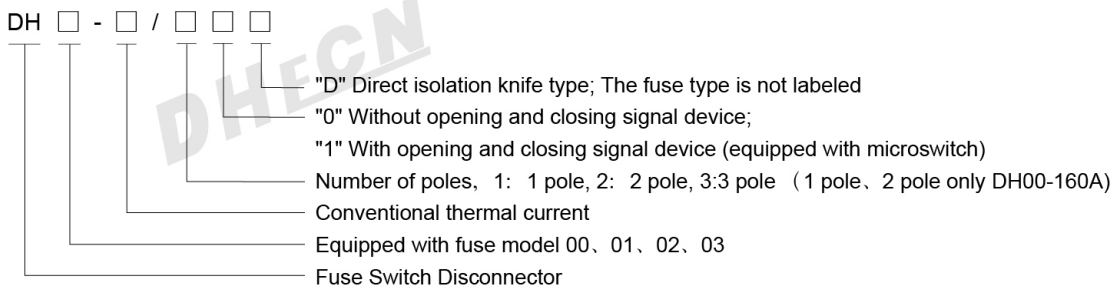


Sphere of Application

The DH series Fuse Switch Disconnecter (hereinafter referred to as the switch) is suitable for distribution circuits with high short-circuit current, rated AC 50Hz voltage up to AC690V, and agreed heating current up to 630A. It is used as a power switch, isolation switch, emergency switch, and circuit protection. The direct isolation knife type can be used as a knife switch.

This product complies with the standard GB/T14048.3 IEC60947-3

Meaning of Product Model



Normal Working and Installation Conditions

- 1、The ambient air temperature shall not exceed + 40℃ and not be lower than -5℃ .
- 2、The altitude of the installation site shall not exceed 2000m.
- 3、Humidity: When the maximum temperature is + 40℃ , the relative humidity of the air does not exceed 50%. Higher relative humidity can be allowed at lower temperatures, such as reaching 90% at 20℃ . Special measures should be taken for occasional condensation caused by temperature changes.
- 4、The pollution level of the surrounding environment is level 3.
- 5、The switch should be installed in a place without significant shaking, impact vibration, and invasion of rain and snow. At the same time, the installation location should be free of explosive hazardous media, and there should be no gas or dust in the media that can corrode metals and damage insulation.

Structure Characteristics

The product has a beautiful and innovative design. The switch is composed of a base, cover, and arc extinguishing chamber, all of which are made of arc resistant plastic and have a fully plastic structure. The static contact is directly installed on the base, and the arc extinguishing chamber is easy to disassemble. Each uses multiple arc extinguishing grids, enhancing the arc extinguishing ability and improving the contact life. The NT type fuse is installed inside the cover, which rotates in a fan-shaped manner and has a large electrical isolation distance to meet the requirements of the isolation switch. The cover can be easily removed from the base. On both sides of the switch, auxiliary contacts can be installed as needed to send signals indicating the opening and closing status of the switch.

Main Technical Specifications

Relationship between switches and fuses

Conventional thermal current Ith	Matching fuse size	Rated current of fuse link (A)
160	NT00,NH00	10、16、25、32、40、50、63、80、100、125、160
250	NT1,NH1	63、80、100、125、160、200、250
400	NT2,NH2	160、200、250、315、400
630	NT3,NH3	250、315、400、500、630

Main technical parameters of switches

Model Specifications	DH00-160		DH01-250	DH02-400	DH03-630
Conventional Thermal Current (A)	160		250	400	630
Rated Insulation Voltage Ui (V)	1000		1000	1000	1000
Rated Impulse Withstand Voltage (kV)	12		12	12	12
Rated Working Current(A)	500V		160	250	400
	690V		125	200	315
Rated making and breaking capacity (A) (1.05Ue)	AC500V,AC-22B COSΦ: 0.65	Connect	480	750	1200
	AC500V,AC-22B COSΦ: 0.65	Breaking	480	750	1200
Mechanical Life (Time)	1400		800	800	800
Electrical Life (Time)	200		200	200	200
Operating Force (N)	≤400		≤400	≤400	≤400
Rated Conditional Short-circuit Current (kA) (AC-21B/AC-22B)	50/120		50/120	50/120	50/120
Usage Category	500V:AC22B 690V:AC21B		500V:AC22B 690V:AC21B	500V:AC22B 690V:AC21B	500V:AC22B 690V:AC21B
Pollution Degree	3		3	3	3
Degrees of Protection Provided by Enclosure	IP30		IP30	IP30	IP30

Installation Precautions

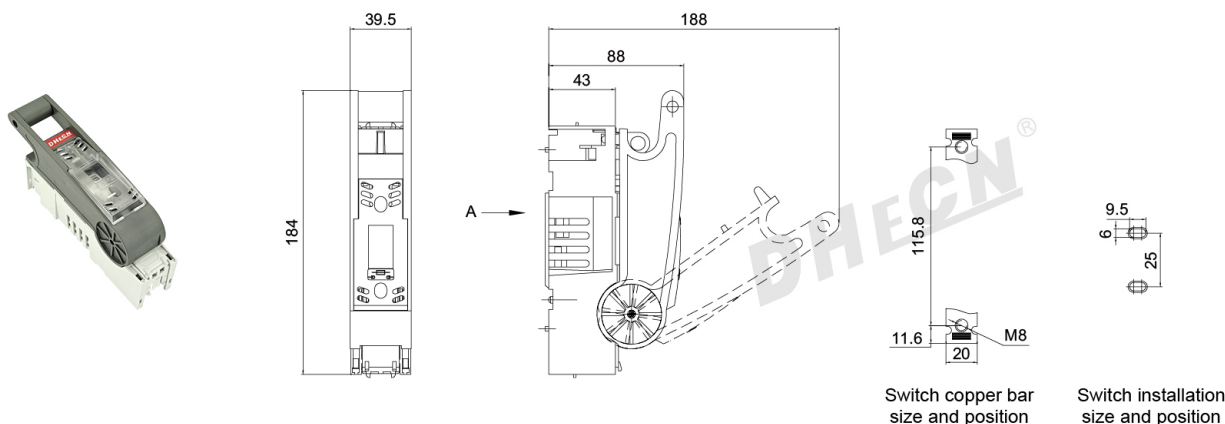
- 1.The contact parameters of the switch have been set by the manufacturer and cannot be adjusted freely during use.
- 2.During the connection process between the busbar and the product, it is necessary to ensure that the distance between the busbar row holes is consistent with the product wiring holes to avoid product damage caused by external forces.

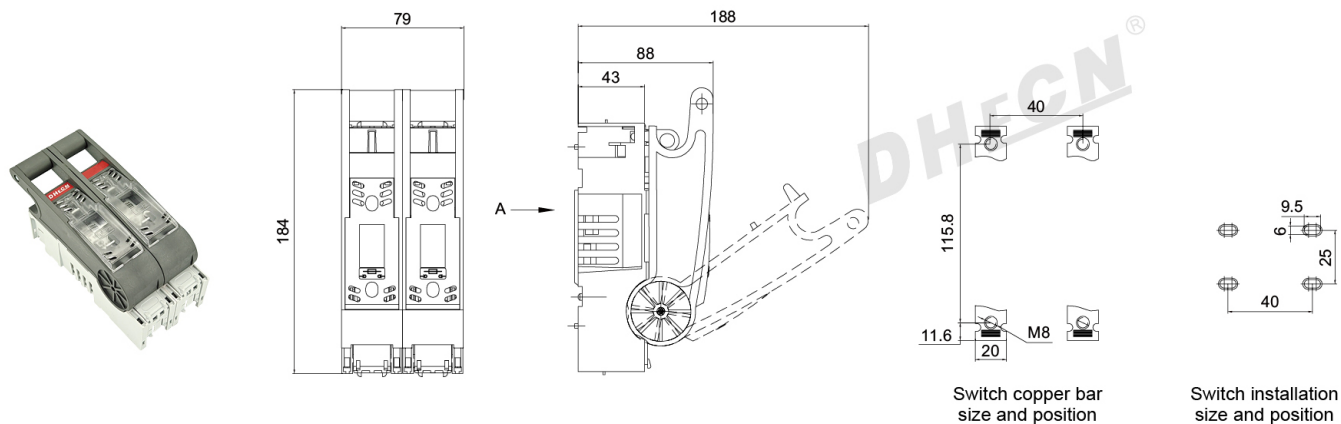
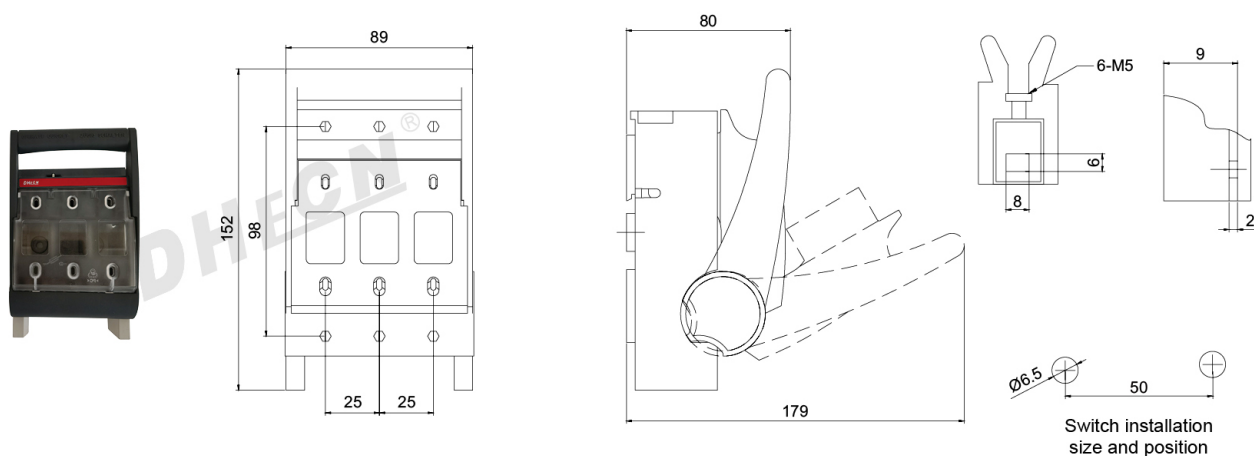
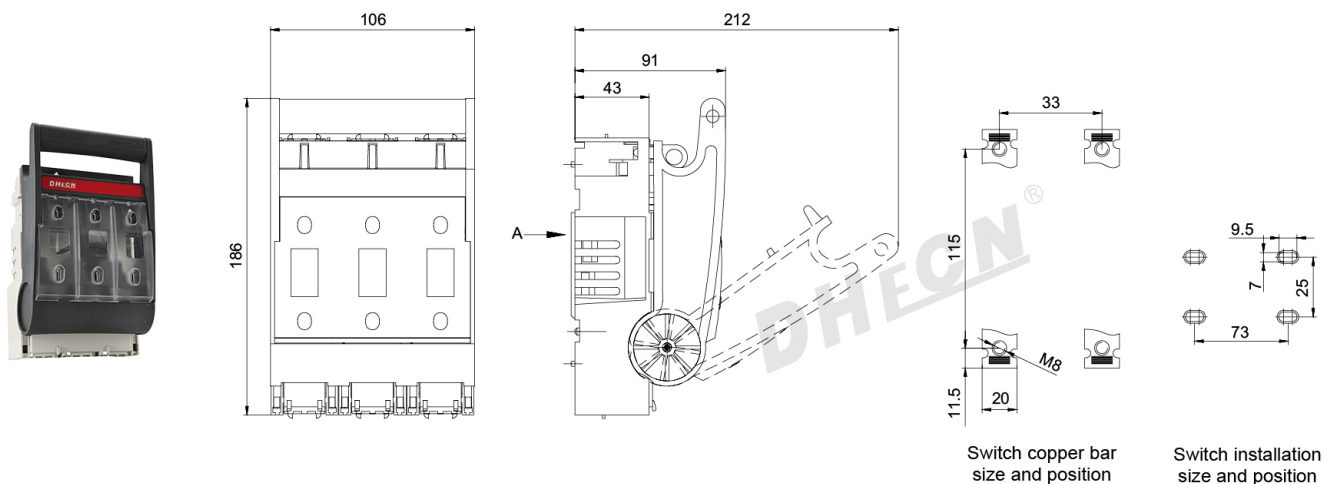
Ordering Information

Customers must indicate the product name, model, rated current, pole number and quantity, Example 1: DH02-400/31 (equipped with fuse: 315A, with microswitch)
Quantity: 10 units;

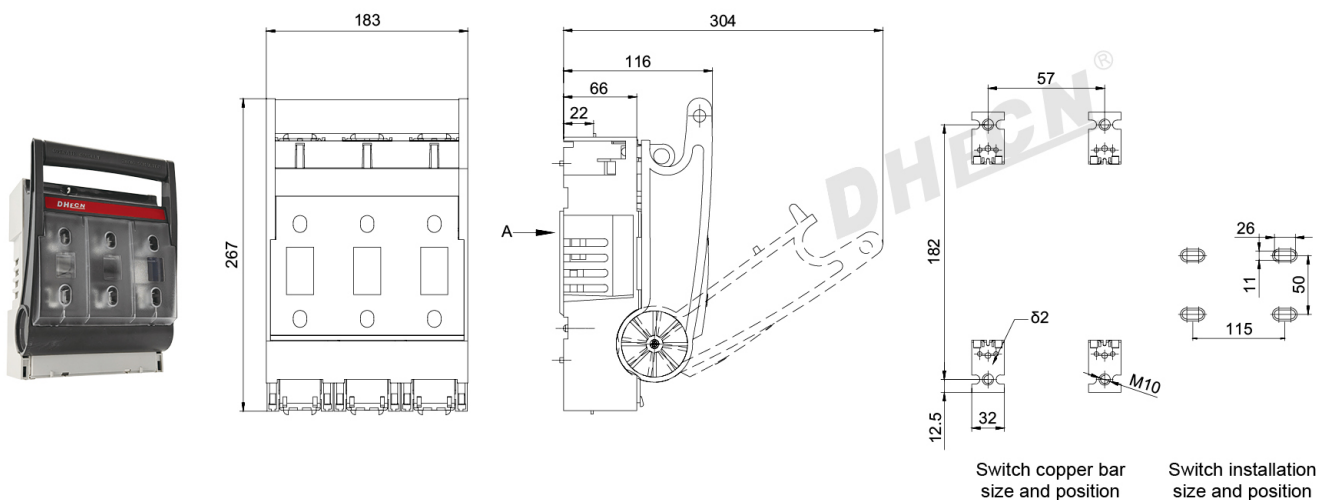
Note: The specifications and dimensions are subject to change due to product improvements without prior notice, and the actual product shall prevail.

DH00-160/1 Installation and Overall Dimensions(mm)

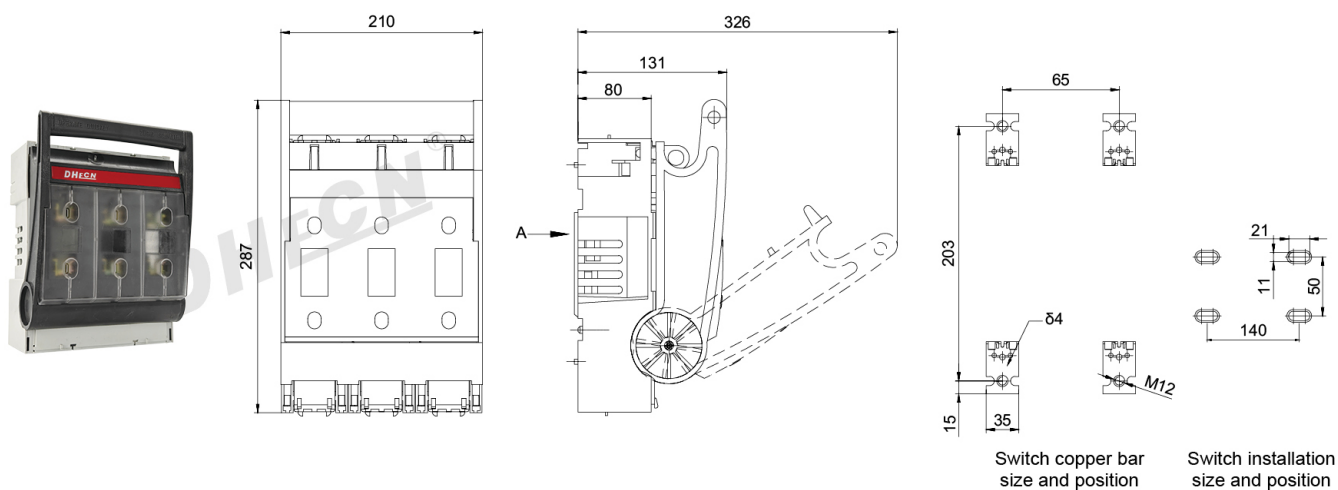


DH00-160/2 Installation and Overall Dimensions(mm)

DH00-100/3 Installation and Overall Dimensions(mm)

DH00-160/3 Installation and Overall Dimensions(mm)


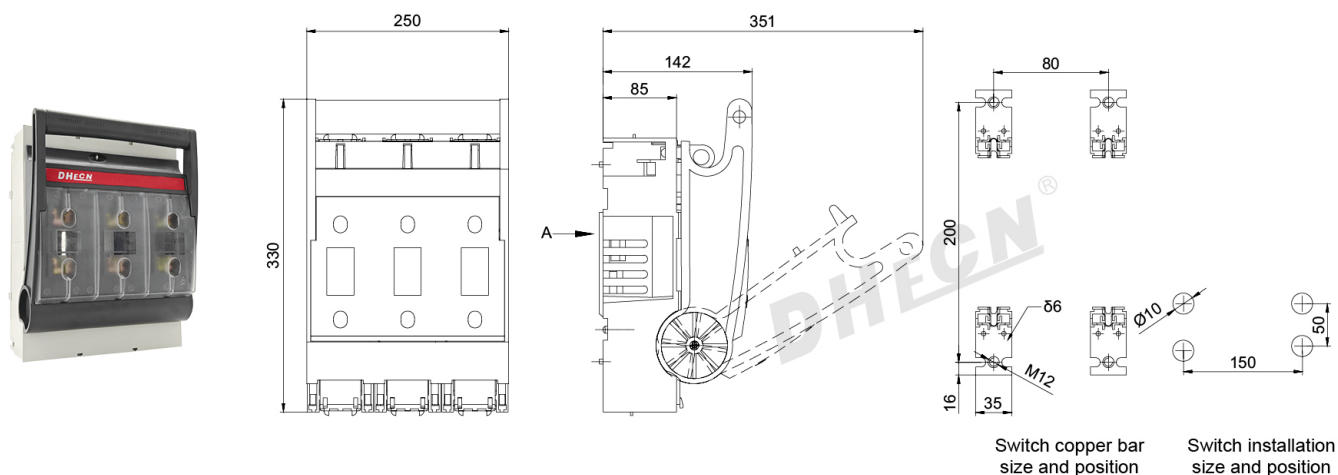
DH01-250/3 Installation and Overall Dimensions(mm)



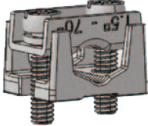
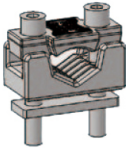
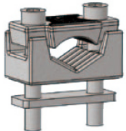
DH02-400/3 Installation and Overall Dimensions(mm)



DH03-630/3 Installation and Overall Dimensions(mm)



Wiring Terminal Accessories

Terminal Shape	Terminal Model	Torque N*M	Cable size mm ²	Can be equipped with switch models
M8 bolt (with wiring nose)		12-15	16-70	⊗ DH-160
M10 bolt (with wiring nose)		30-35	25-150	DH-250~400
M12 bolt (with wiring nose)		35-40	25-240	DH-630
	XYDZ001	3	16-70 s(r) 16-70 s(s) 16-70 f+AE	DH-160
	XYDZ002	6	75-150 s(r) 75-150 s(s) 75-150 f,f+AE	DH-250
	XYDZ004	8	50-240 s(r) 50-240 s(s) 50-240 f,f+AE	DH-630