



DHECN[®]

HD11G Series (PV-Specific)

Knife Switch Selection Manual



DONGHUA ELECTRIC STOCK CO., LTD. OF ZHEJIANG

HD11G Series (Special for Photovoltaic Applications)

Edition: 202409

Current Rating: 63A、100A、200A、400A、600A

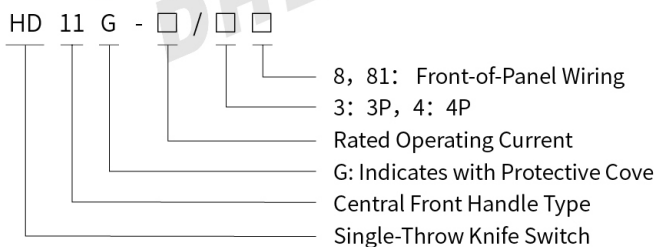
800A、1000A、1500A



Scope of Application

This series of products is suitable for use in complete power distribution devices with an AC frequency of 50Hz, rated operating voltages of AC 230V/400V/690V/800V, and rated currents ranging from 63A to 1500A. The above-mentioned products are widely used in photovoltaic grid-connected systems. Note that this product cannot be operated under load and is only for use as an isolating switch. This product complies with the standards: GB/T 14048.3 and IEC 60947-3.

Meaning of Product Model



Normal Operating and Installation Conditions

- 1、The ambient air temperature shall not exceed +45°C and shall not be lower than -30°C .
- 2、The altitude of the installation site shall not exceed 2000m.
- 3、Humidity: When the maximum temperature is +45 °C , the relative humidity of the air shall not exceed 50%. Higher relative humidity is allowed at lower temperatures, e.g., up to 90% at 25 °C . Special measures shall be taken against condensation occasionally caused by temperature changes.
- 4、The pollution degree of the surrounding environment shall be Class 3.
- 5、The switch shall be installed in a location free from significant shaking, impact, vibration, and exposure to rain or snow. Meanwhile, the installation site shall be free from explosive hazardous media, and the media shall not contain gases or dust that are sufficient to corrode metals or damage insulation.

Structural Features

This series of products is derived and developed by our company based on the HD11 series. It serves as an ideal alternative to the HD11 series, significantly enhancing personal safety protection performance and preventing accidental electric shock. For products with a rated current below 100A, a tunnel-type wiring method is adopted.

Note: For products with a rated current above 400A, the base plate material can be provided as resin plate, rubber plate, epoxy plate, etc., according to customer requirements; non-standard customized products (based on special agreements) can also be supplied to meet customer needs.

Main Technical Parameters

Conventional Heating Current (A)	200	400	630	1000	1500
Rated Operating Current (A)	63、100、160、200	250、400	600、630	800、1000	1500
Rated Insulation Voltage (V)	1000	1000	1000	1000	1000
Rated Impulse Withstand Voltage (kV)	12	12	12	12	12
Making and Breaking Capacity (A)	200	400	630	1000	1500
Mechanical Life (Times)	10000	8000	5000	5000	5000
Electrical Life (Times)	1500	1000	1000	500	500
Short-Time Withstand Current (kA/1s)	10	15	20	25	32
Operating Force (N)	≤ 400	≤ 400	≤ 400	≤ 400	≤ 400
Service Category	AC-20A	AC-20A	AC-20A	AC-20A	AC-20A
Pollution Degree	3	3	3	3	3
Degree of Protection of Enclosure	IP00	IP00	IP00	IP00	IP00

Installation Precautions

- 1.The contact parameters of the switch have been set by the manufacturer and must not be adjusted arbitrarily during use.
- 2.During the connection process between the busbar (cable) and the product, it is essential to ensure that the hole spacing of the busbar matches the wiring holes of the product to prevent product damage caused by external forces.

Environmental Protection

To protect the environment, when this product or its components reach the end of their service life (for scrapping), they shall be properly disposed of as industrial waste; alternatively, they may be handed over to a recycling and disposal station, which will conduct classified disassembly, recycling, and reuse in accordance with relevant national regulations.

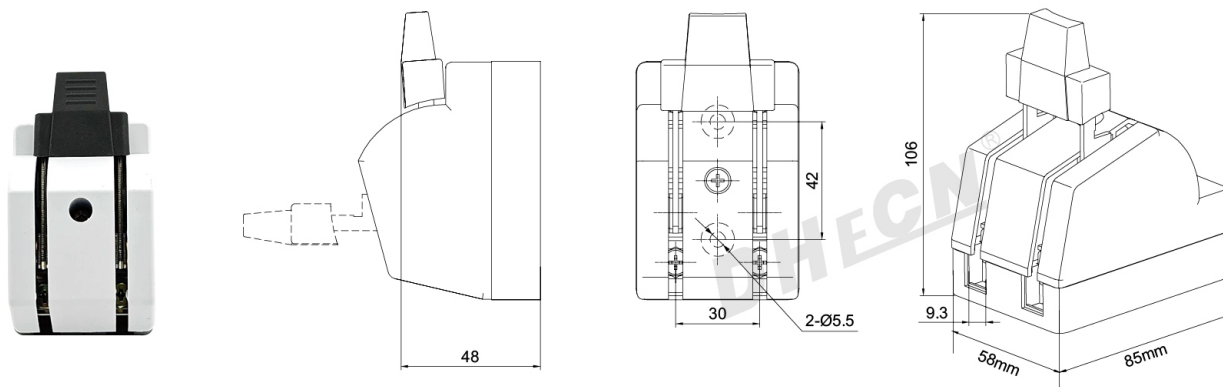
Ordering Instructions

- 1、The base plate materials of this product include resin plates and rubber plates. If customers have special requirements, they must specify the requirements for the base plate material.
- 2、If the installation and overall dimensions provided by our company are inconsistent with the customer' s requirements, the product shall be regarded as a custom-made product. Customers must specify their specific requirements when placing an order.
- 3、Customers must indicate the product name, model, rated current, pole number, quantity, etc. For example: HD11G-200/381, Quantity: 100 units

Note: The specification parameters and overall dimensions are subject to change due to product improvements, and no separate notice will be given. The actual product shall prevail.

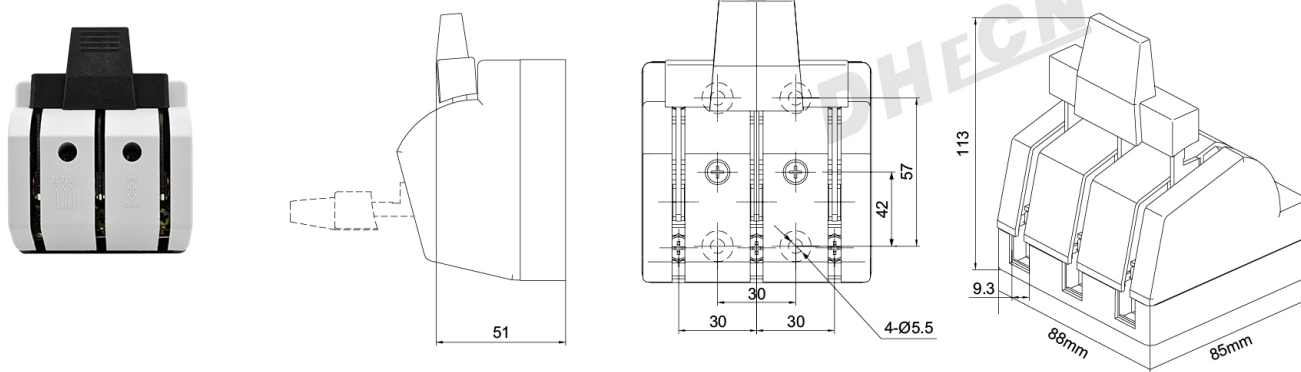
HD11G-63/28 Installation and Overall Dimensions(mm)

HD11G-63/28 Installation Diagram



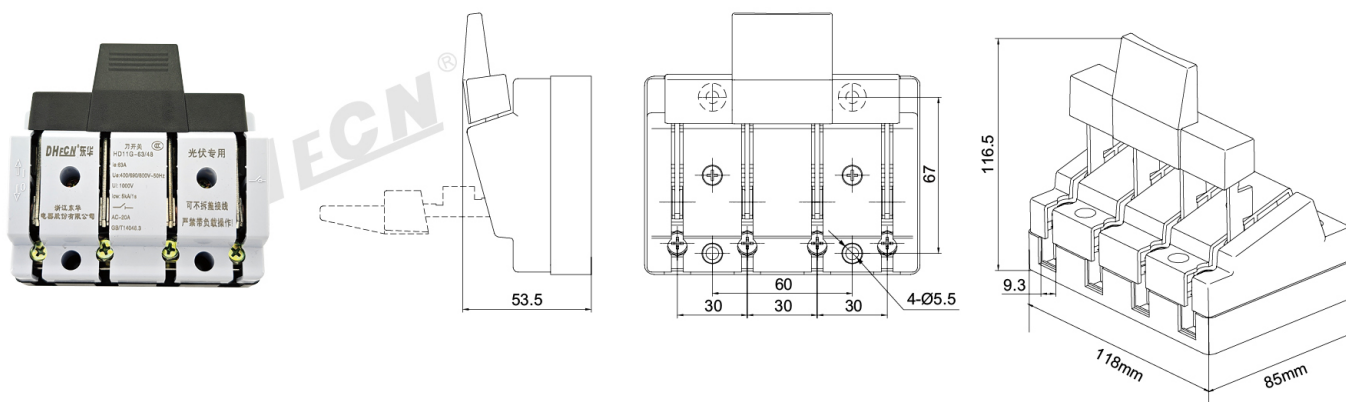
HD11G-63/38 Installation and Overall Dimensions(mm)

HD11G-63/38 Installation Diagram



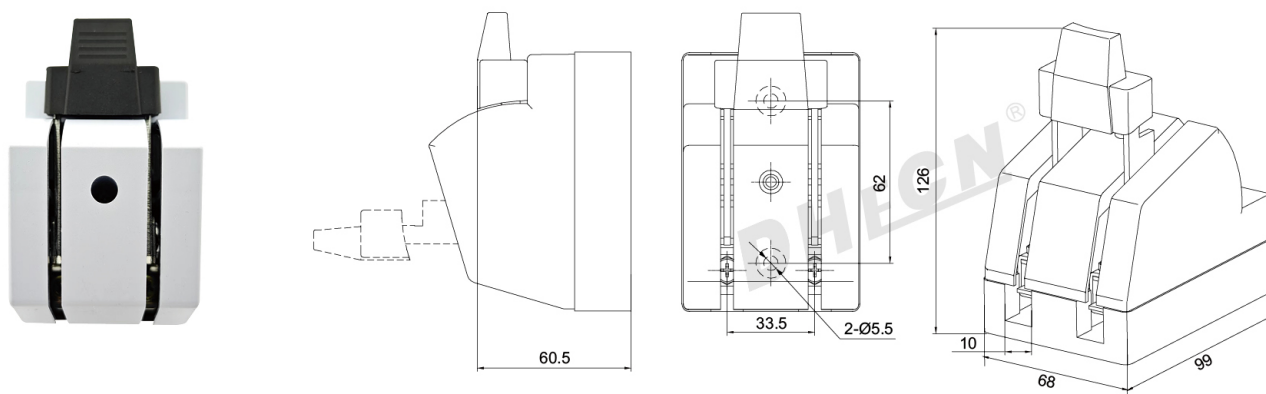
HD11G-63/48 Installation and Overall Dimensions(mm)

HD11G-63/48 Installation Diagram



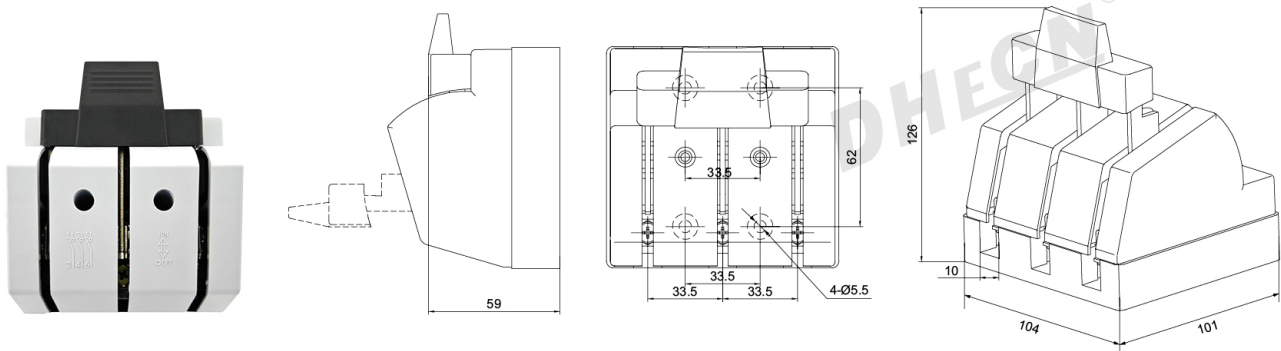
HD11G-100/28B Small-Sized (Installation and Overall Dimensions)(mm)

HD11G-100/28B Small-Sized Installation Diagram



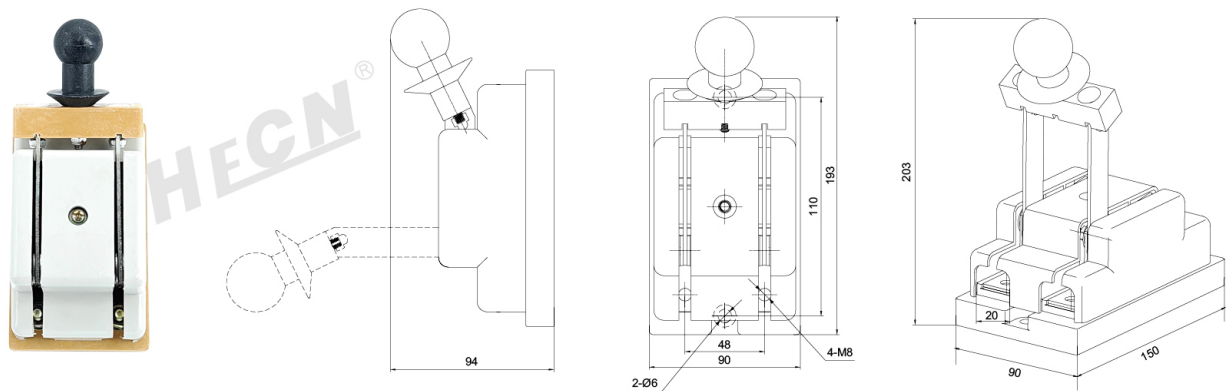
HD11G-100/38B Small-Sized (Installation and Overall Dimensions)(mm)

HD11G-100/38B Small-Sized Installation Diagram



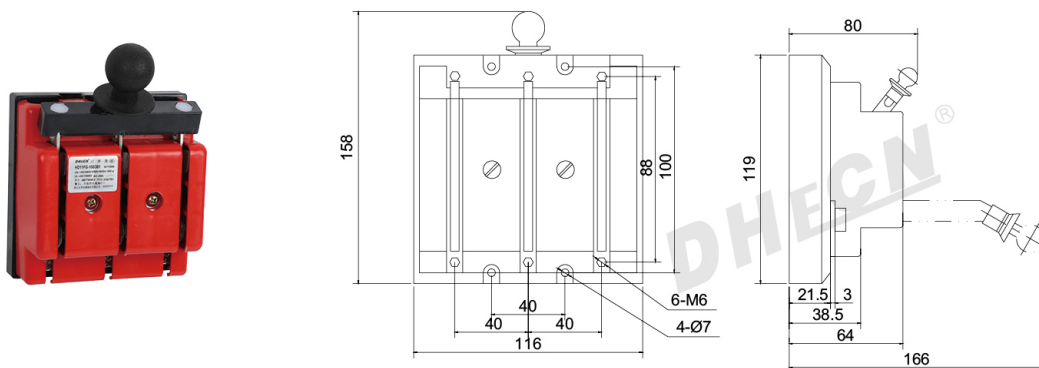
HD11G-100/28 Installation and Overall Dimensions(mm)

HD11G-100/28 Installation Diagram



HD11G-100/381 Front-of-Panel Wiring (Installation and Overall Dimensions)(mm)

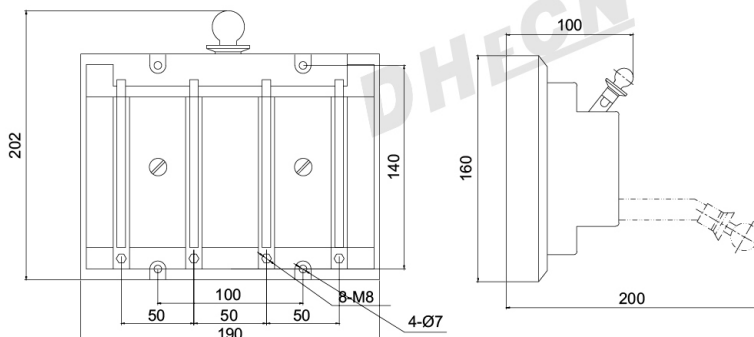
HD11G-100/381 Front-of-Panel Wiring Installation Diagram



HD11G-100/48 Installation and Overall Dimensions(mm)



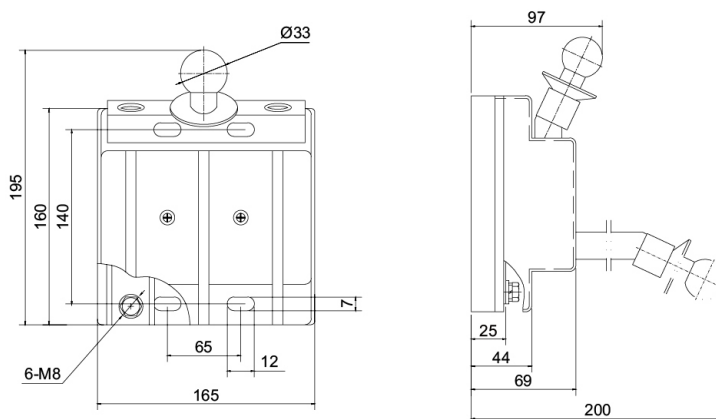
HD11G-100/48 Front-of-Panel Wiring Installation Diagram



HD11G-200/381 Front-of-Panel Wiring (Installation and Overall Dimensions)(mm)



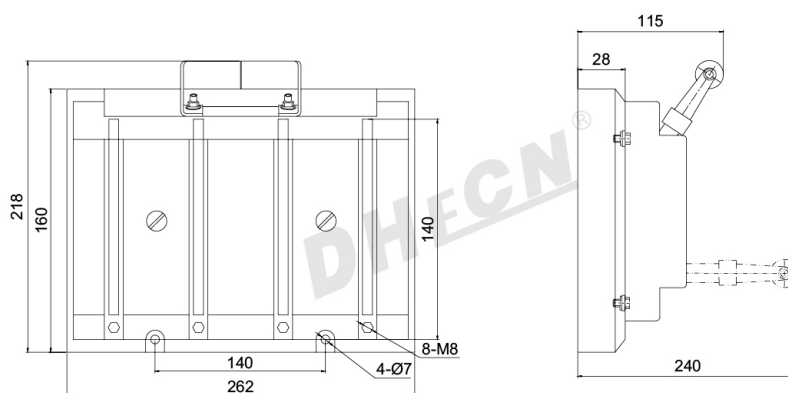
HD11G-200/381 Front-of-Panel Wiring Installation Diagram



HD11G-200/48 Installation and Overall Dimensions(mm)

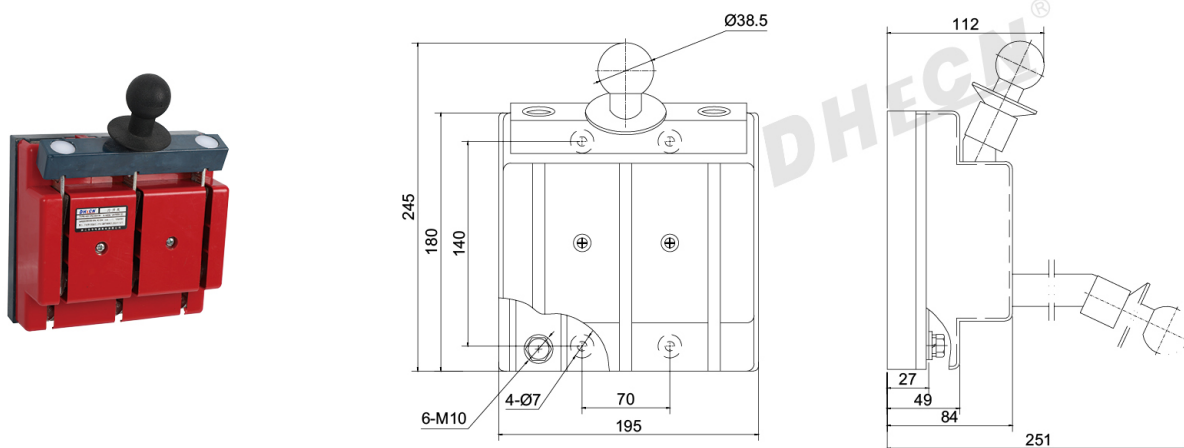


HD11G-200/48 Front-of-Panel Wiring Installation Diagram



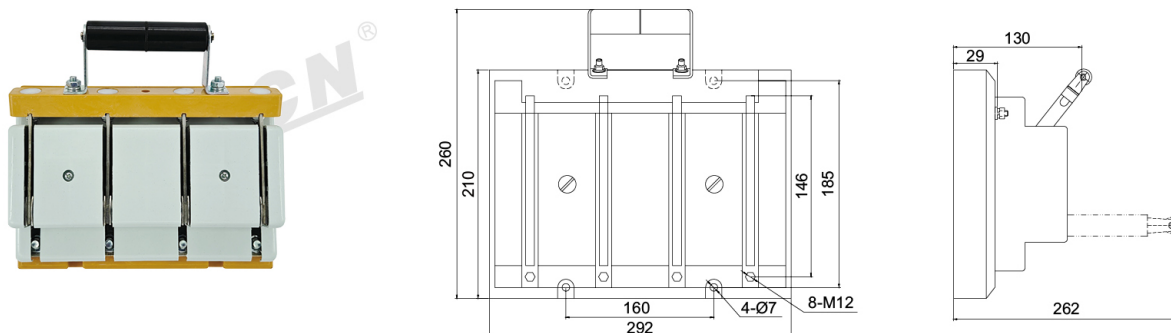
HD11G-400/381 Front-of-Panel Wiring (Installation and Overall Dimensions)(mm)

HD11G-400/381 Front-of-Panel Wiring Installation Diagram



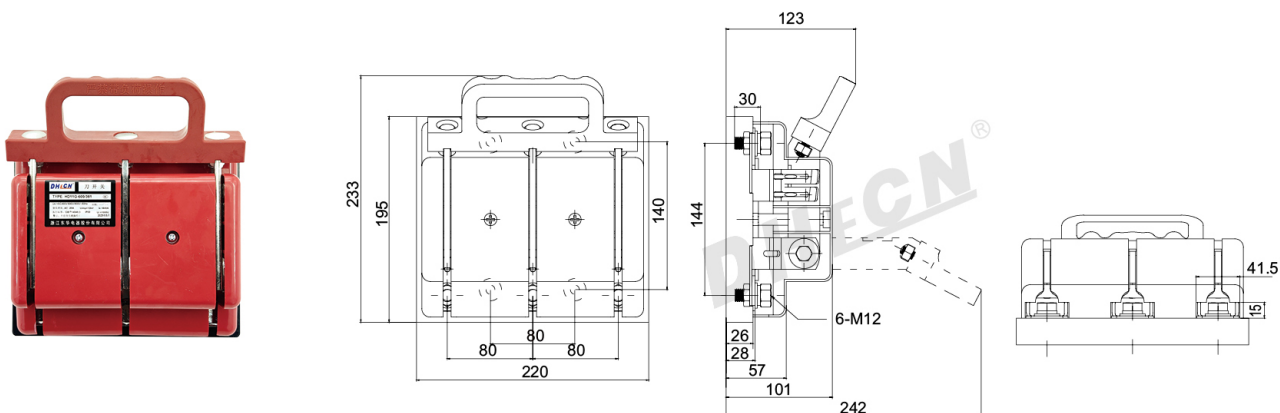
HD11G-400/48 Installation and Overall Dimensions(mm)

HD11G-400/48 Front-of-Panel Wiring Installation Diagram



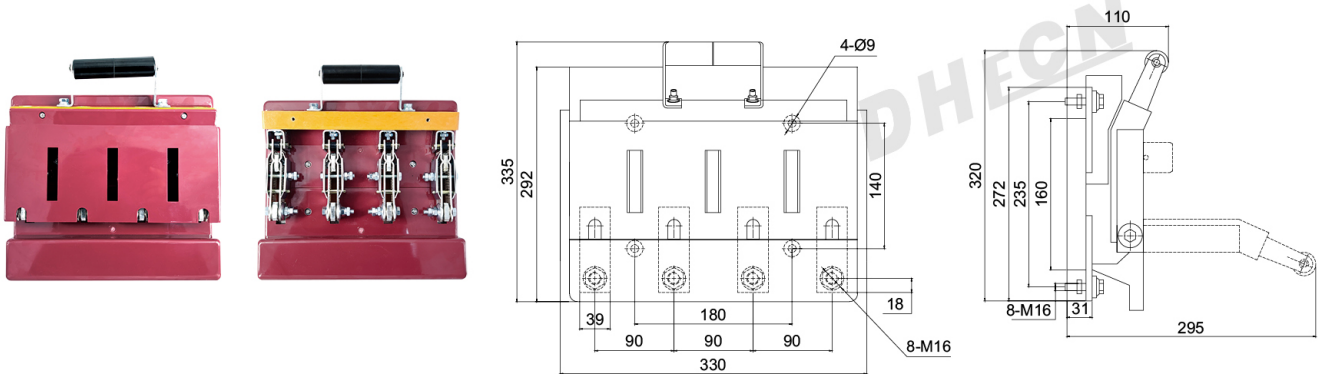
HD11G-600/381 Front-of-Panel Wiring (Installation and Overall Dimensions)(mm)

HD11G-600/381 Front-of-Panel Wiring Installation Diagram



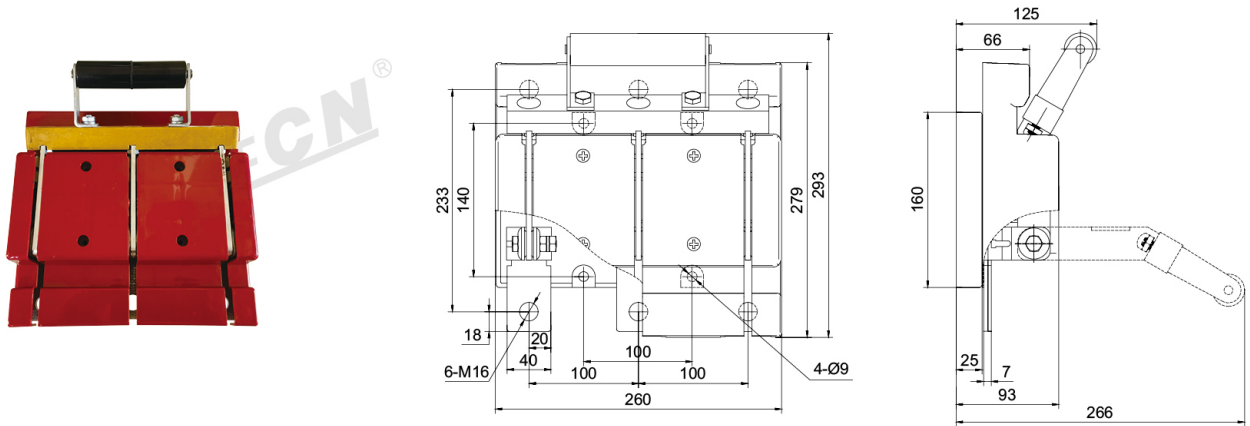
HD11G-600/48 Installation and Overall Dimensions(mm)

HD11G-600/48 Front-of-Panel Wiring Installation Diagram



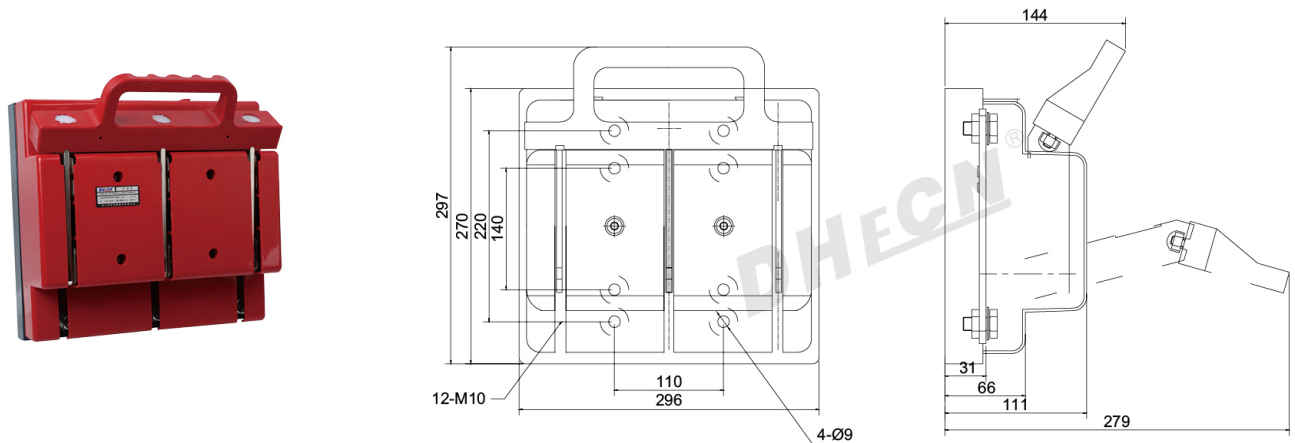
HD11G-800/381 Front-of-Panel Wiring (Installation and Overall Dimensions)(mm)

HD11G-800/381 Front-of-Panel Wiring Installation Diagram



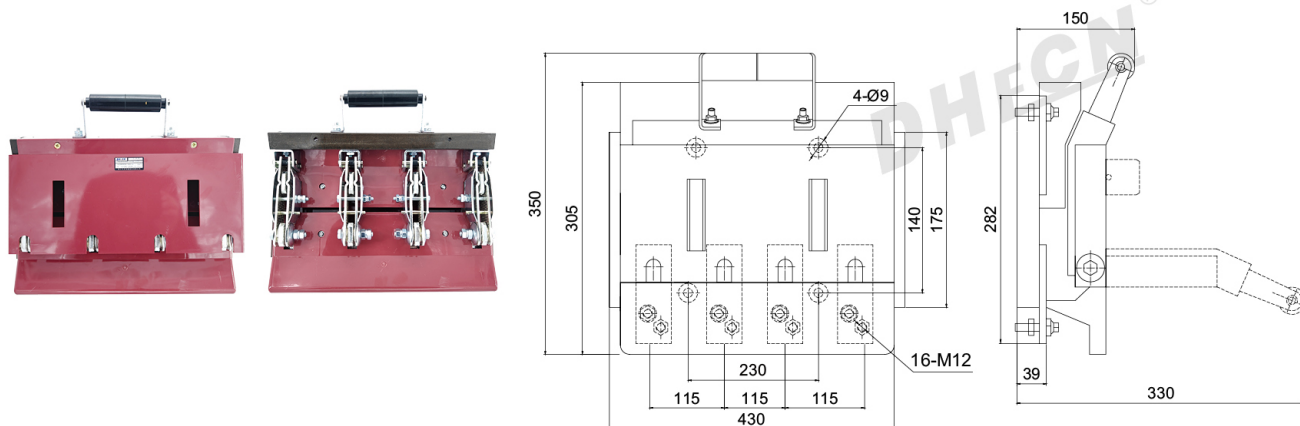
HD11G-1000/381 Front-of-Panel Wiring (Installation and Overall Dimensions)(mm)

HD11G-1000/381 Front-of-Panel Wiring Installation Diagram



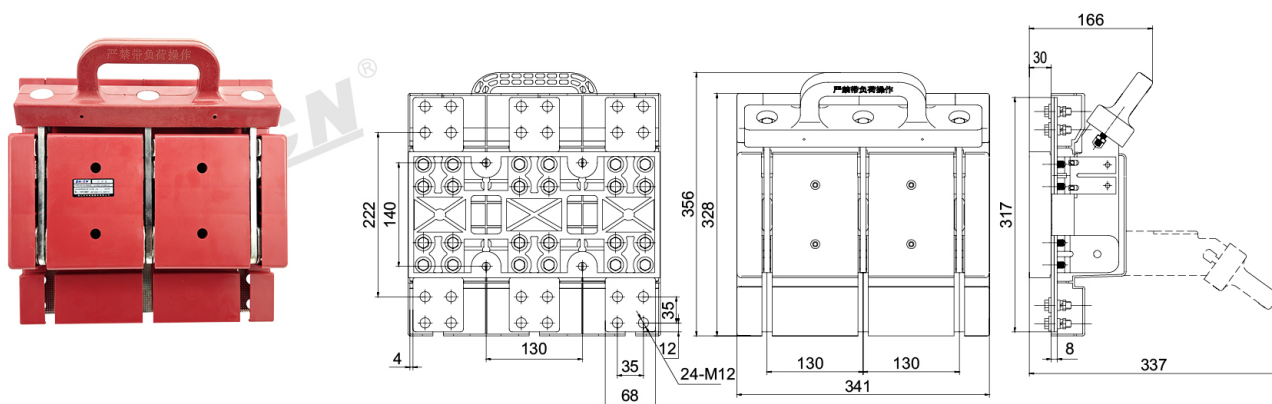
HD11G-1000/48 Installation and Overall Dimensions(mm)

HD11G-1000/48 Front-of-Panel Wiring Installation Diagram



HD11G-1500/381 Installation and Overall Dimensions(mm)

HD11G-1500/381 Front-of-Panel Wiring Installation Diagram



HD11G-1500/481 Installation and Overall Dimensions(mm)

HD11G-1500/481 Front-of-Panel Wiring Installation Diagram

