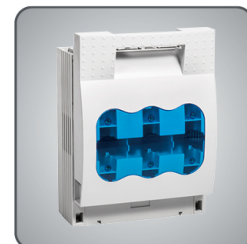




DHECN[®]

DH17 Series

Fuse Switch Disconnecter
Selection Manual



DONGHUA ELECTRIC STOCK CO., LTD. OF ZHEJIANG

HR17 Series Fuse Type Isolation Switch

Version Number: 202312

Current Class: 40A、100A、160A、250A

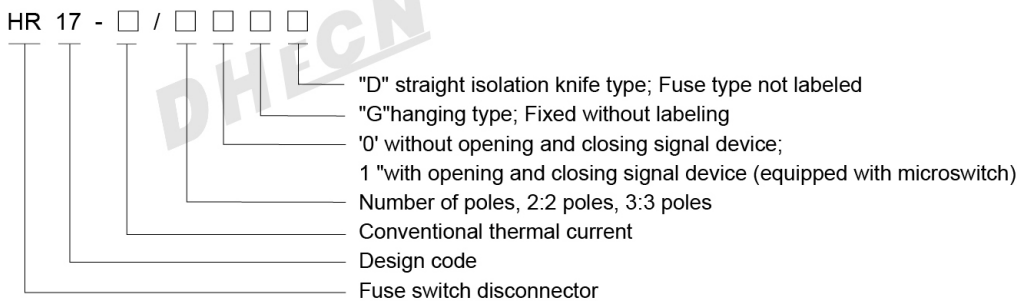
400A、630A、800A



Sphere of Application

The HR17 series fuse type isolation switch (hereinafter referred to as the switch) is suitable for distribution circuits and motor circuits with high short-circuit current, with a rated AC voltage of 50Hz to AC690V and an agreed heating current of 800A. It serves as a power switch, isolation switch, emergency switch, and circuit protection, but is generally not used for directly opening or closing a single motor. It can also be used as a knife switch.

Meaning of Product Model



Normal Working and Installation Conditions

1. The ambient air temperature shall not be higher than +40℃ and not lower than -5℃ .
2. The elevation 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, shock vibration, and rain or snow invasion. 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 is sufficient to corrode metal and damage insulation.

Structure Characteristics

The product has a beautiful and novel design. The switch is composed of a base, cover, and arc extinguishing chamber, all made of arc resistant plastic and is a fully plastic structure. The static contact is directly installed on the base, making the arc extinguishing chamber easy to disassemble and assemble. 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. The direct isolation knife type can be used as a knife switch. The hanging type installation can be directly installed in the busbar system without drilling, meeting the requirements of the national grid. Hanging type products and providing upper and lower input and output structures, namely upper wiring type (upper incoming line) and lower wiring type (lower outgoing line)

Main Technical Parameters

Matching relationship between switches and fuses

Agreed heating current (A)	Model of fuse link	Rated working voltage (V)	Rated current of fuse link (A)
40	RT18-63	AC-23B 400	2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 25, 32, 40
100	RT18-125X	AC-23B 690	4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63, 80, 100
160	NT00, RT16-00	AC-23B 400	4, 6, 10, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160
		AC-23B 690	4, 6, 10, 16, 20, 25, 32, 40, 50, 63, 80, 100
250	NT1, RT16-1	AC-23B 400	63, 80, 100, 125, 160, 200, 250
		AC-23B 690	63, 80, 100, 125, 160, 200
400	NT2, RT16-2	AC-23B 400	160, 200, 250, 315, 400
		AC-23B 690	160, 200, 250, 315
630	NT3, RT16-3	AC-23B 400	250, 315, 400, 500, 630
		AC-23B 690	250, 315, 400, 500
800	CRT3	AC-23B 400	800

Main technical parameters of the switch

Model specifications			HR17-40	HR17-100	HR17-160	HR17-250	HR17-400	HR17-630	HR17-800
Agreed heating current (A)			40	100	160	250	400	630	800
Rated insulation voltage (V)			1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage (kV)			12	12	12	12	12	12	12
Rated working current (A)	400V		40	100	160	250	400	630	800
	690V		/	100	100	200	315	500	/
Rated making and breaking capacity (A) (1.05Ue)	AC690V, AC-23B COSΦ: 0.35	Connect	400	1000	1600	2500	4000	6300	8000
	AC690V, AC-23B COSΦ: 0.35	Breaking	320	800	1280	2000	3200	5040	6400
Mechanical life (times)			1400	1400	1400	800	800	800	500
Electrical life (times)			200	200	200	200	200	200	100
Operating force (N)			≤400	≤400	≤400	≤400	≤400	≤400	≤600
Rated conditional short-circuit current (kA/1s)			50	50	50	50/100	50/100	50/100	100
Utilization category			AC-23B	AC-23B	AC-23B	AC-23B	AC-23B	AC-23B	AC-23B
Pollution degree			3	3	3	3	3	3	3
Installation category			III	III	III	III	III	III	III

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 Instructions

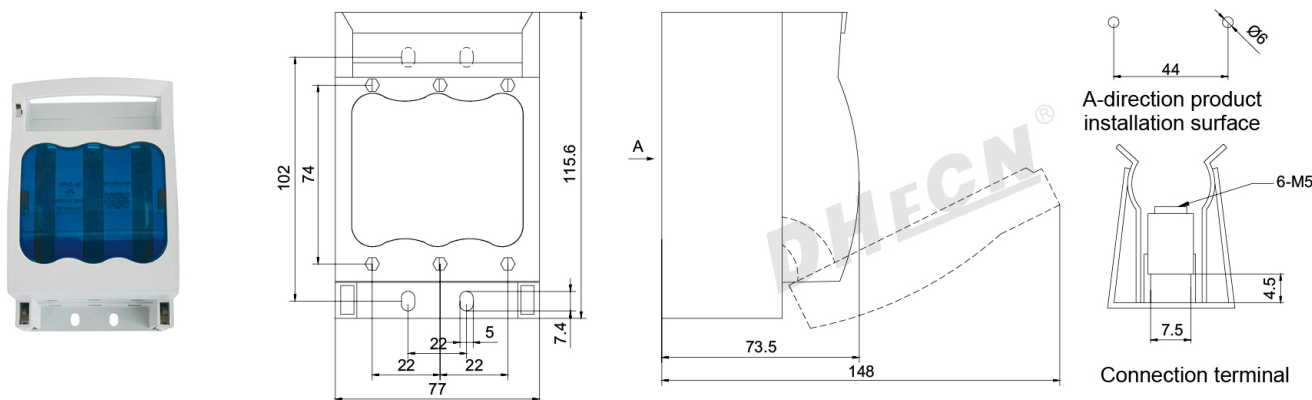
The customer must indicate the product name, model, rated current, number of poles, and quantity, etc.

Example 1: HR17-400/30 690V (with fuse: 400A) Quantity: 10 units; Example 2: HR17-630/31G (upper incoming line) 690V (with fuse: 630A) 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.

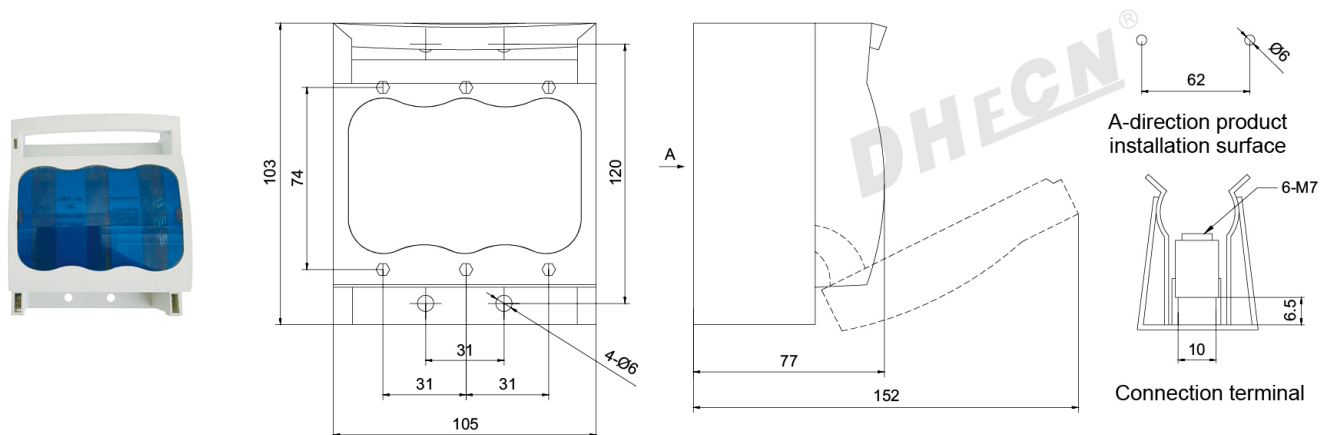
HR17-40 Installation and Overall Dimensions(mm)

HR17-40 installation drawing



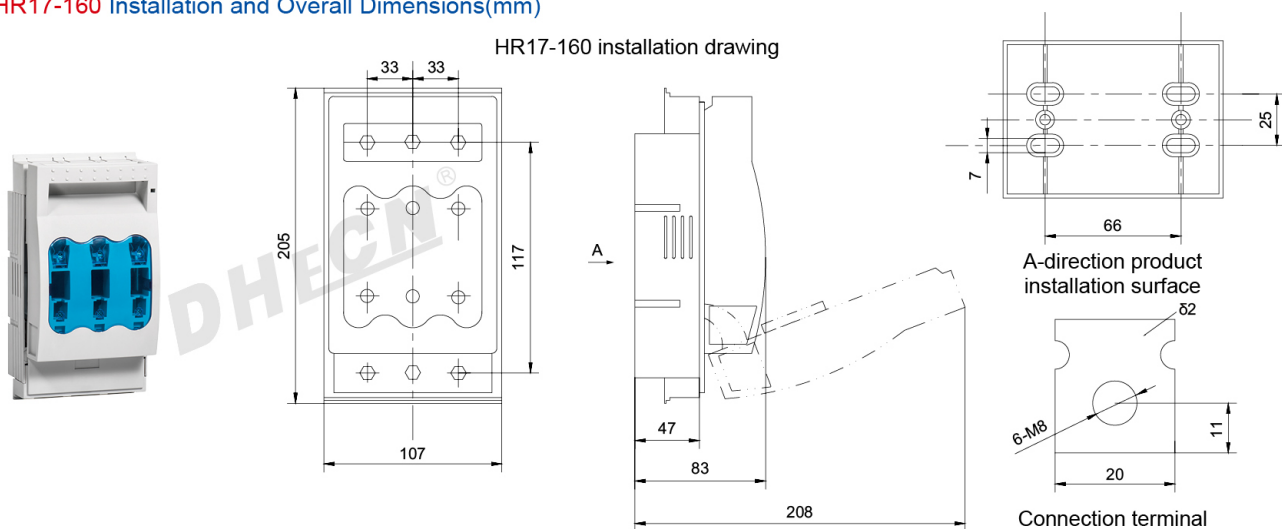
HR17-100 Installation and Overall Dimensions(mm)

HR17-100 installation drawing



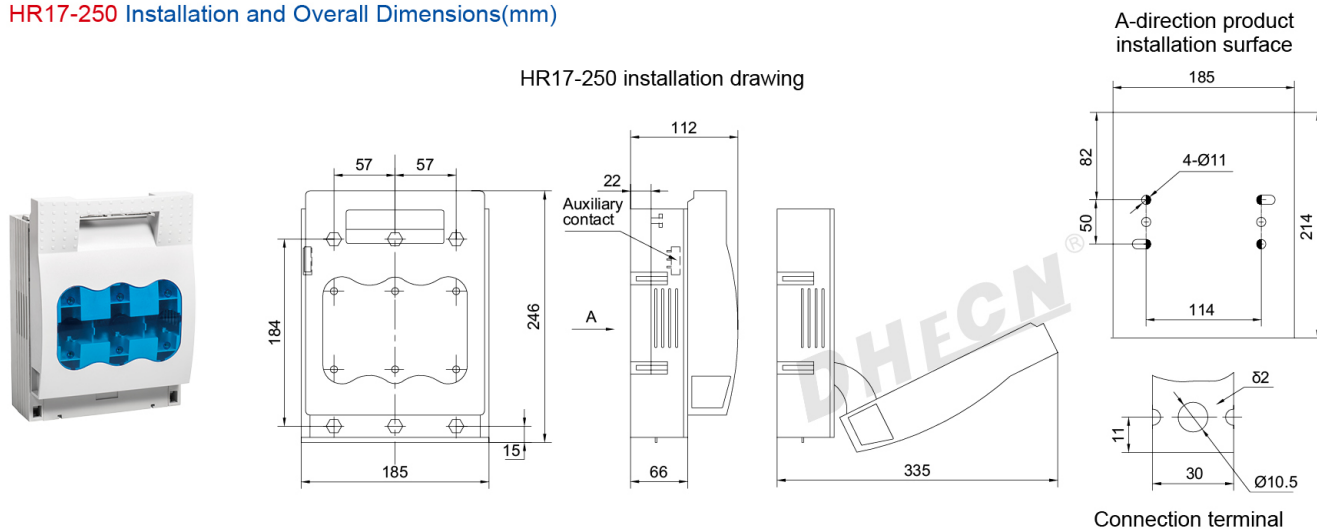
HR17-160 Installation and Overall Dimensions(mm)

HR17-160 installation drawing



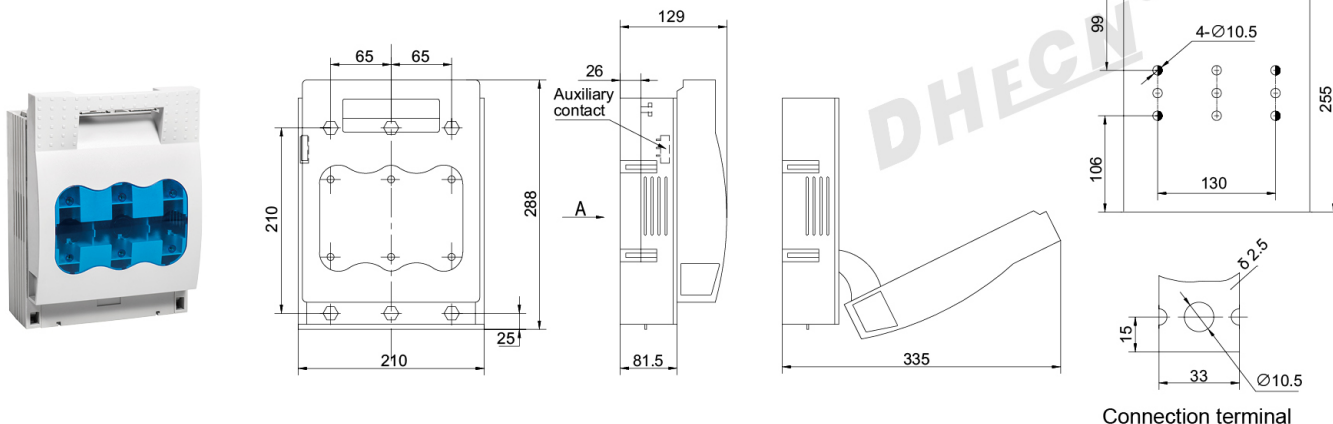
HR17-250 Installation and Overall Dimensions(mm)

HR17-250 installation drawing



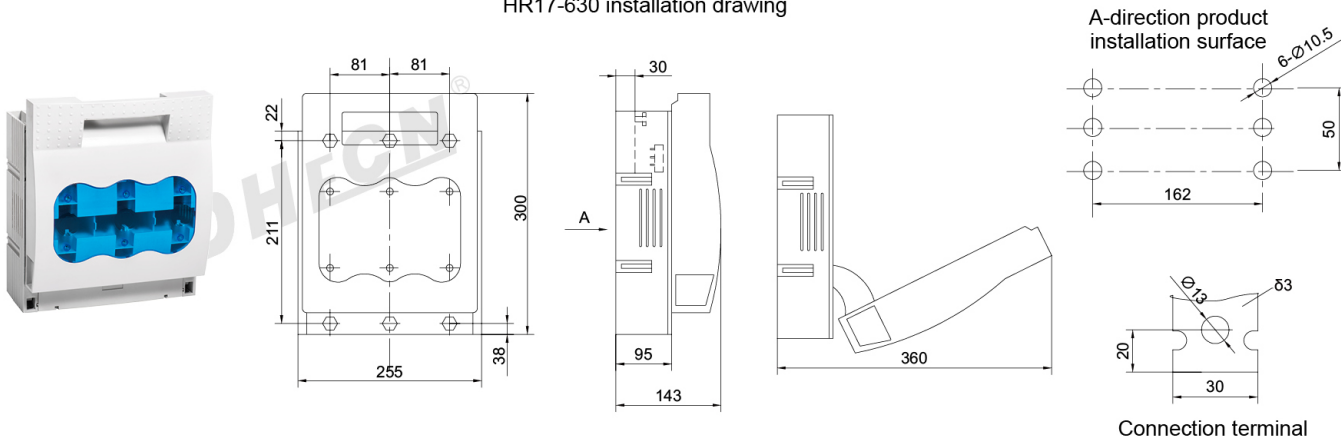
HR17-400 Installation and Overall Dimensions(mm)

HR17-400 installation drawing



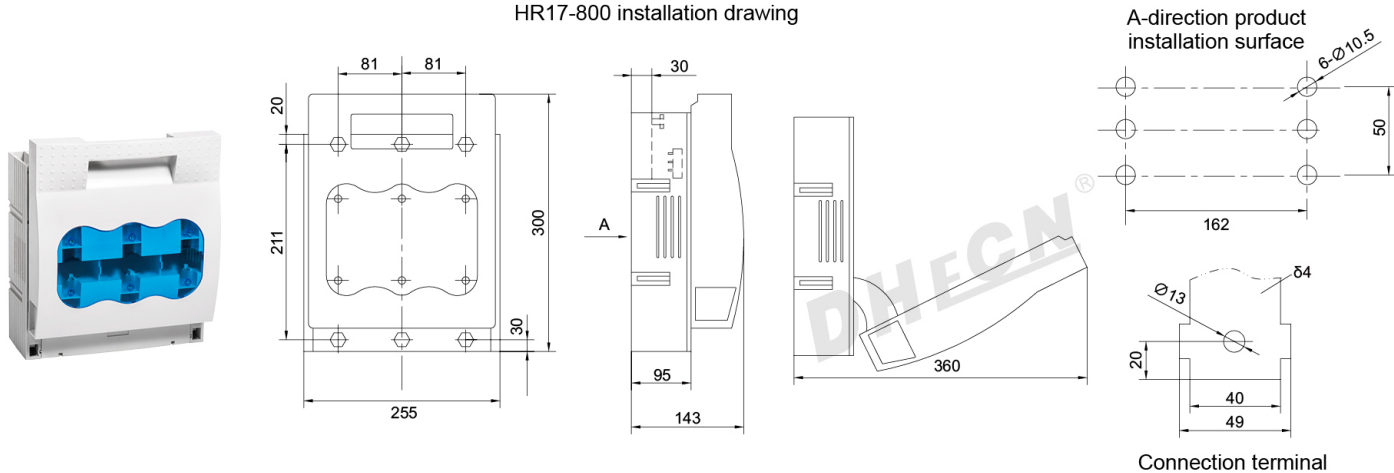
HR17-630 Installation and Overall Dimensions(mm)

HR17-630 installation drawing



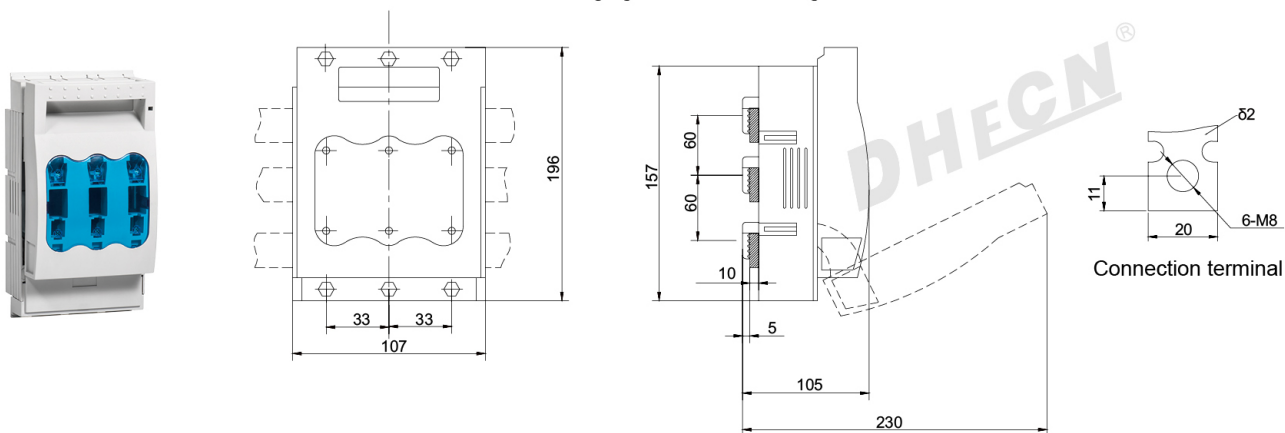
HR17-800 Installation and Overall Dimensions(mm)

HR17-800 installation drawing



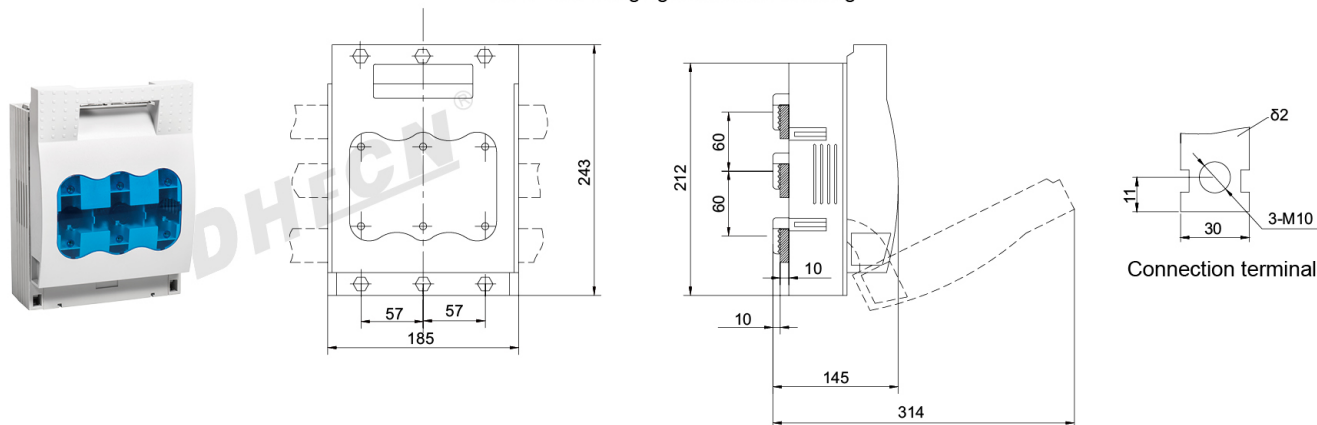
HR17-160 Hanging installation and overall dimensions (mm)

HR17-160 Hanging installation drawing



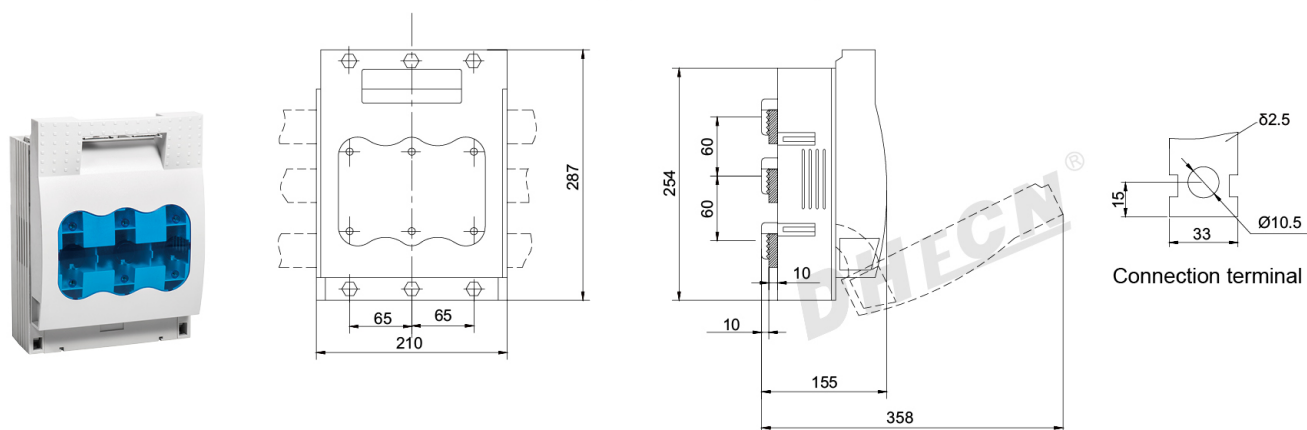
HR17-250 Hanging installation and overall dimensions (mm)

HR17-250 Hanging installation drawing



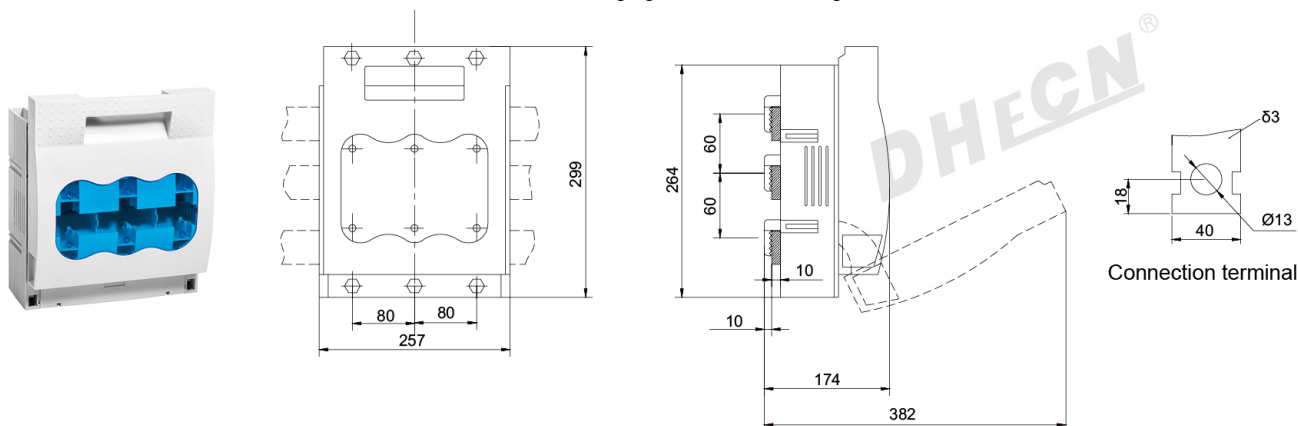
HR17-400 Hanging installation and overall dimensions (mm)

HR17-400 Hanging installation drawing



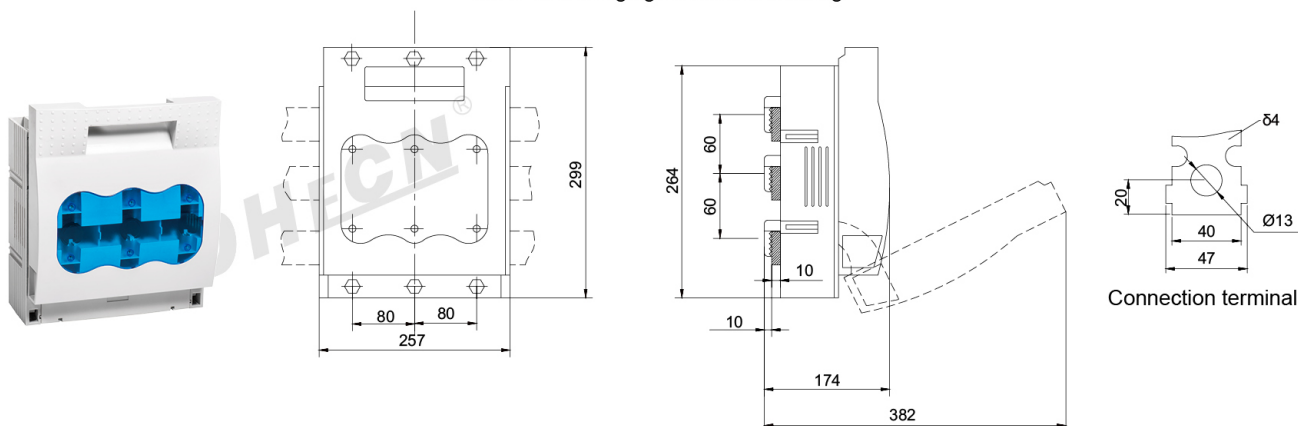
HR17-630 Hanging installation and overall dimensions (mm)

HR17-630 Hanging installation drawing

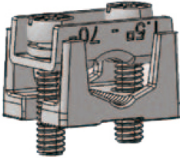
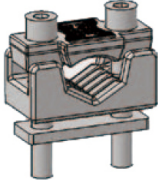
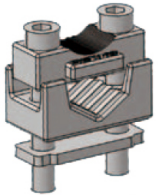
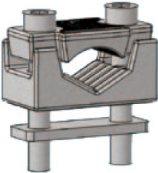


HR17-800 Hanging installation and overall dimensions (mm)

HR17-800 Hanging installation drawing



Terminal Accessories

Terminal shape	Wiring terminal model	Torque N*n	Cable square mm ²	Switch models available
M8 Bolt (with wiring nose)		12-15	16-70	HR17-160
M10 Bolt (with wiring nose)		30-35	25-150	HR17-250~400
M12 Bolt (with wiring nose)		35-40	25-240	HR17-630
	XYDZ001	3	16-70 s(r) 16-70 s(s) 16-70 f+AE	HR17-160
	XYDZ002	6	75-150 s(r) 75-150 s(s) 75-150 f,f+AE	HR17-250
	XYDZ003	8	50-240 s(r) 50-240 s(s) 50-240 f,f+AE	HR17-400~630
	XYDZ004	8	50-300 s(r) 50-300 s(s) 50-300 f,f+AE	HR17-630