



DHECN[®] 东华

DGLR Series

Selection Manual for Isolation
Switch Fuse Group



DONGHUA ELECTRIC STOCK CO., LTD. OF ZHEJIANG

DGLR Series Isolation Switch Fuse Group

Version number: 202404

Current levels: 63A、160A、250A、400A
630A、800A、1000A、1250A



DGLR-63/3



DGLR-250/3



DGLR-630/3



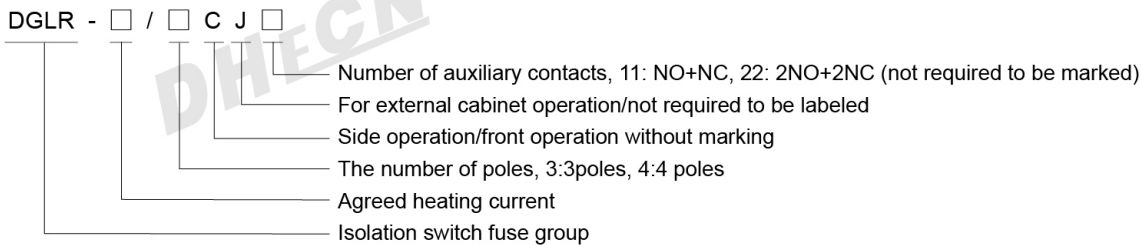
DGLR-630/4

Applicable Scope

The DGLR series products are mainly used for AC 50Hz, rated voltage up to AC690V, and agreed heating current up to 1250A. They are used in distribution circuits and motor circuits with high short-circuit current, ensuring the connection and disconnection of circuits with load, and have reliable safety breaking protection for overcurrent or short circuit.

This switch complies with GB/T14048.3 and IEC60947-3 standards.

Meaning of Product Model



Normal Working and Installation Conditions

1. The ambient air temperature shall not exceed +40 °C and not be lower than -5 °C .
2. The altitude of the installation site shall not exceed 2000m.
3. Humidity: When the maximum temperature is +40 °C , 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 °C . 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

1. The acceleration mechanism with instantaneous release of spring energy storage achieves fast connection or disconnection, independent of the speed of the operating handle, and improves the ability to extinguish arcs.
2. The shell made of unsaturated polyester glass fiber reinforced plastic (DMC) has good flame retardancy, dielectric properties, and operational safety.
3. Parallel multi break contact has self-cleaning function and reliable overcurrent and short-circuit safety protection function.
4. Can ensure that the circuit is connected or disconnected with load.
5. Replacing the melt is safe, convenient, and fast.

Main Technical Parameters

Relationship between switches and fuses

Agreed heating current Ith	Equipped with fuse code	Rated current of fuse (A)
63	NT00C、NH00C	4、6、10、16、20、25、32、40、50、63
125	NT00、NH00	10、16、20、25、32、40、50、63、125
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
800	NT4、NH4	800
1000	NT4、NH4	800、1000
1250	NT4、NH4	800、1000、1250

Main technical parameters of switches

Model specifications			DGLR-63	DGLR-125	DGLR-160	DGLR-250	DGLR-400	DGLR-630	DGLR-800	DGLR-1000	DGLR-1250
Agreed heating current (A)			63	125	160	250	400	630	800	1000	1250
Rated insulation voltage (V)			800	800	800	800	800	800	800	800	800
Rated impulse withstand voltage (kV)			4	4	4	4	8	8	8	8	8
Rated working current (A)	380V		63	125	160	250	400	630	800	1000	1250
	660V		63	100	125	200	315	500	630	800	1000
Rated making and breaking capacity(A) 1.05Ue	AC660V,AC-23B COSΦ: 0.35	Connect	630	1250	1600	2500	4000	6300	8000	10000	12500
	AC660V,AC-23B COSΦ: 0.35	Breaking	504	1000	1280	2000	3200	5040	6400	8000	10000
Mechanical lifespan (times)			1400	1400	1400	1400	800	800	500	500	500
Electrical lifespan (times)			200	200	200	200	200	200	100	100	100
Operating Force (N)			7.5	16	16	16	30	30	40	40	40
Rated limit short circuit current (KA)			50	50	50	50	50	50	100	100	100
Use categories			AC-23B	AC-23B	AC-23B	AC-23B	AC-23B	AC-23B	AC-23B	AC-23B	AC-23B
Pollution levels			3	3	3	3	3	3	3	3	3
Installation category			III	III	III	III	III	III	III	III	III

Installation Precautions

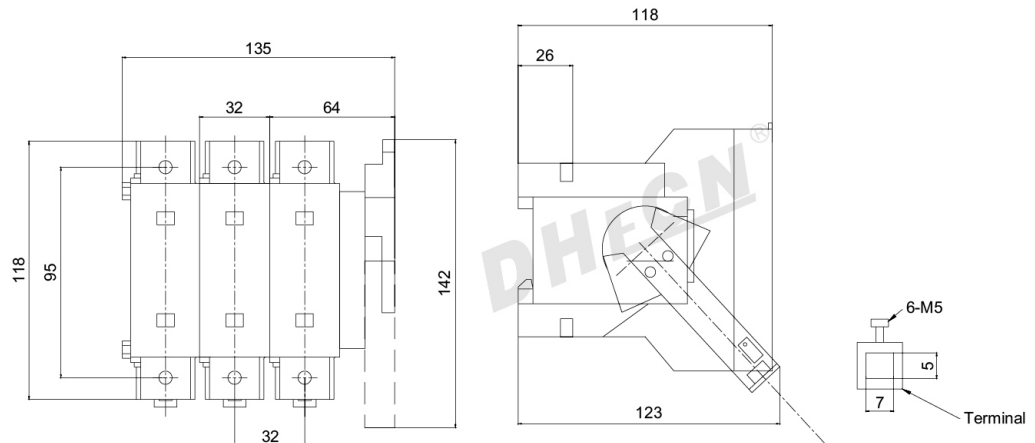
1. The contact parameters of the switch have been set by the manufacturer and cannot be adjusted freely during use.
2. During the connection process between the busbar and the product, it is necessary to ensure that the distance between the busbar holes is consistent with the product wiring holes to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

Ordering Notice

Customers are required to indicate the product name, model, rated current, number of poles, and quantity. For example, DGLR-400/3C11, equipped with 315A fuses, quantity of 10 units. Note: The specifications and external dimensions may change due to product improvements without further notice, and the actual product shall prevail.

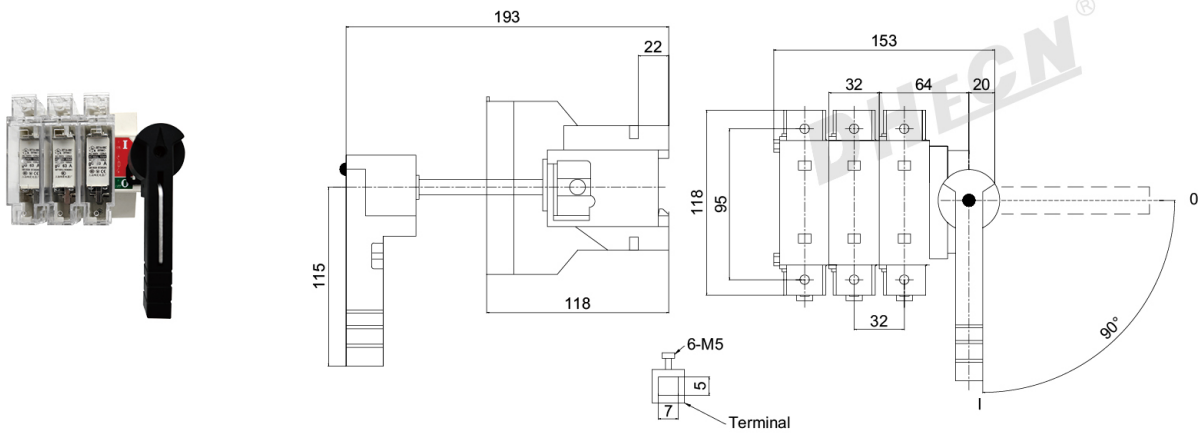
DGLR-63/3C side operation, installation and outline dimensions (mm)

DGLR-63/3C Side operation, installation drawing



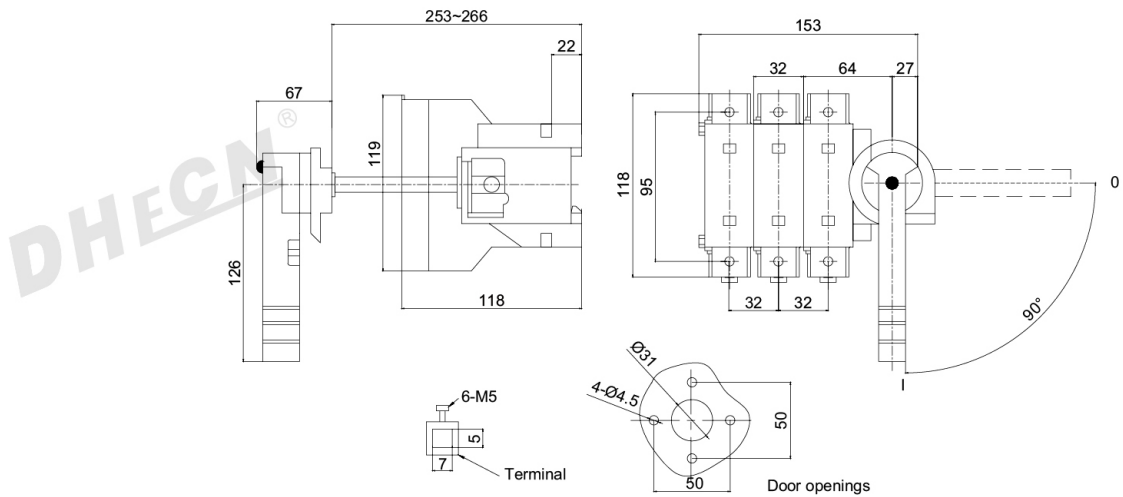
DGLR-63/3 direct operation, installation and outline dimensions (mm)

DGLR-63/3 Direct operation, installation diagram



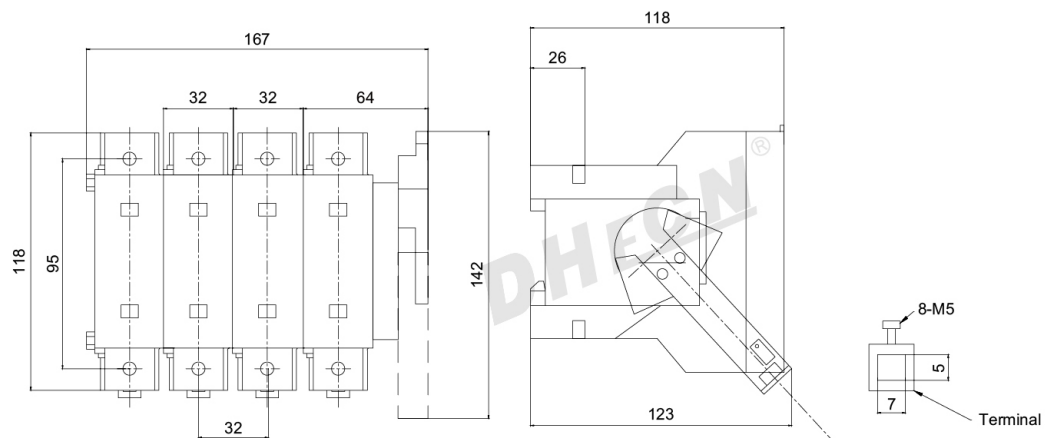
DGLR-63/3J outside operation, installation and outline dimensions (mm)

DGLR-63/3J outside operation, installation drawing



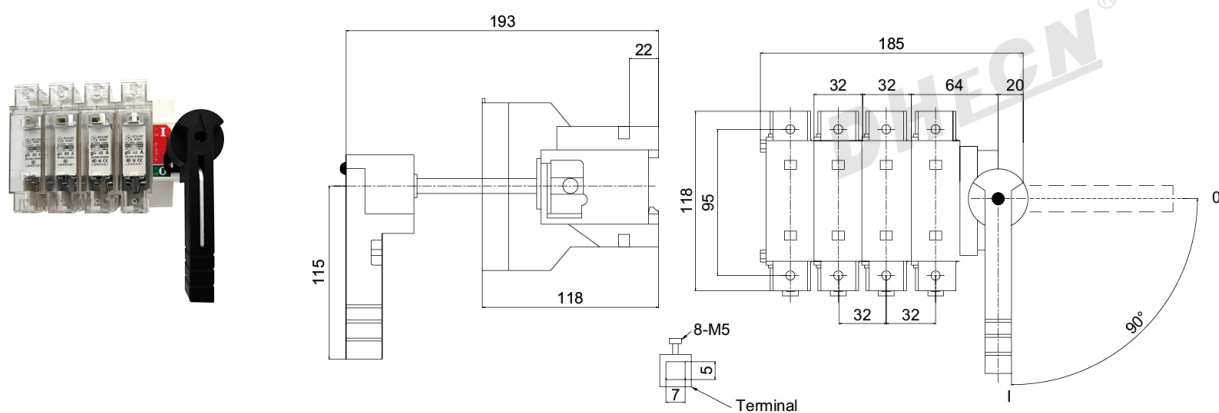
DGLR-63/4C side operation, installation and outline dimensions (mm)

DGLR-63/4C side operation, installation drawing



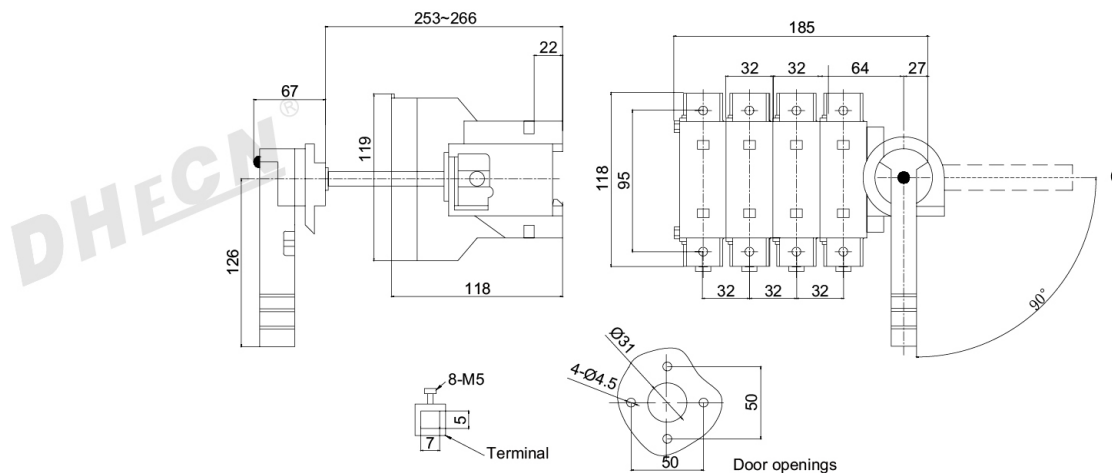
DGLR-63/4 direct operation, installation and outline dimensions (mm)

DGLR-63/4 direct operation, installation diagram



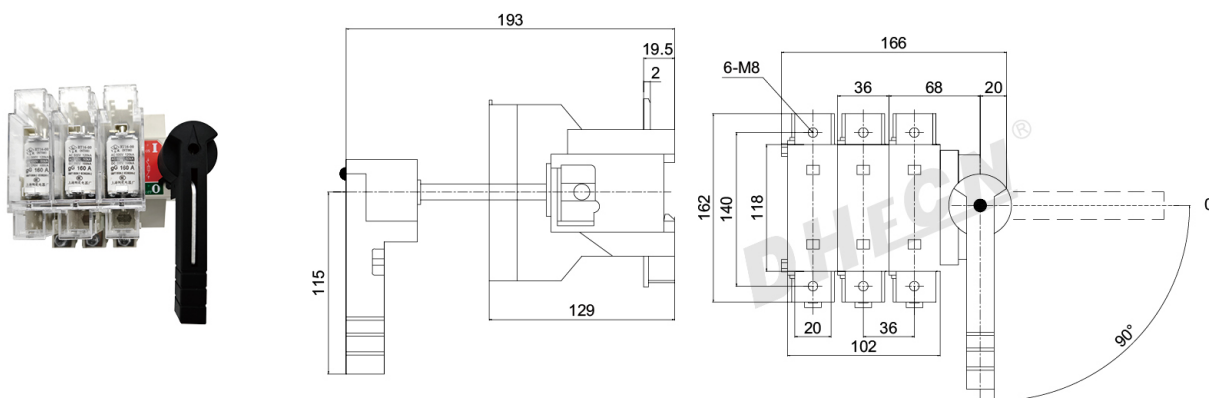
DGLR-63/4J outside operation, installation and outline dimensions (mm)

DGLR-63/4J outside operation, installation drawing



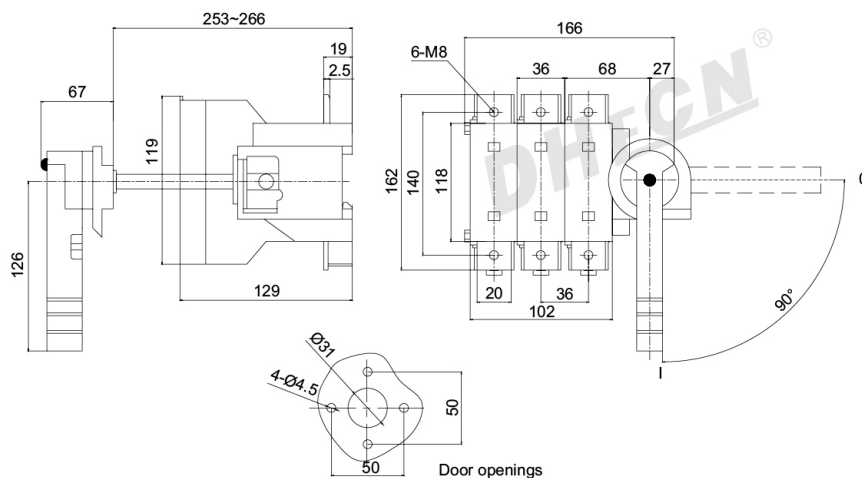
DGLR-160/3 direct operation, installation and outline dimensions (mm)

DGLR-160/3 direct operation, installation diagram



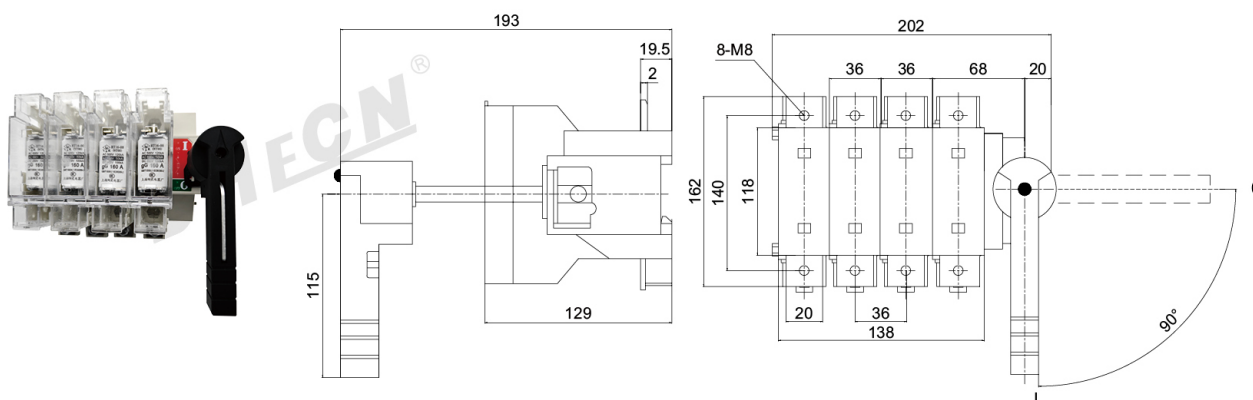
DGLR-160/3J outside operation, installation and outline dimensions (mm)

DGLR-160/3J outside operation, installation drawing



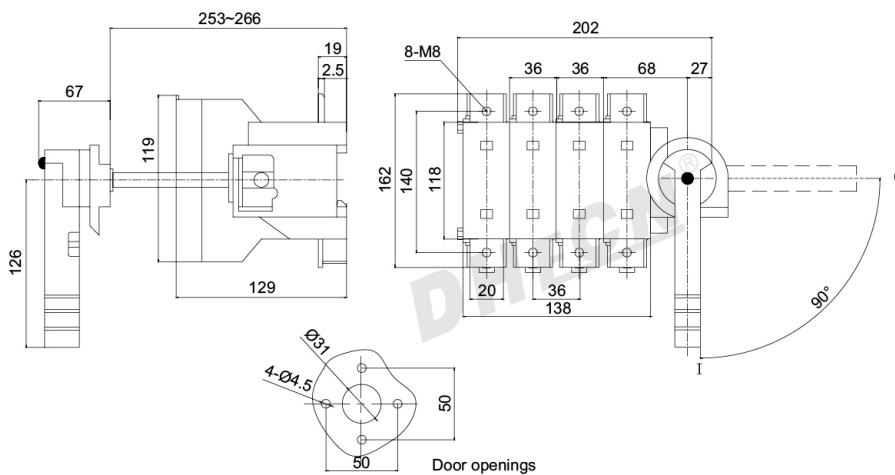
DGLR-160/4 direct operation, installation and outline dimensions (mm)

DGLR-160/4 direct operation, installation diagram



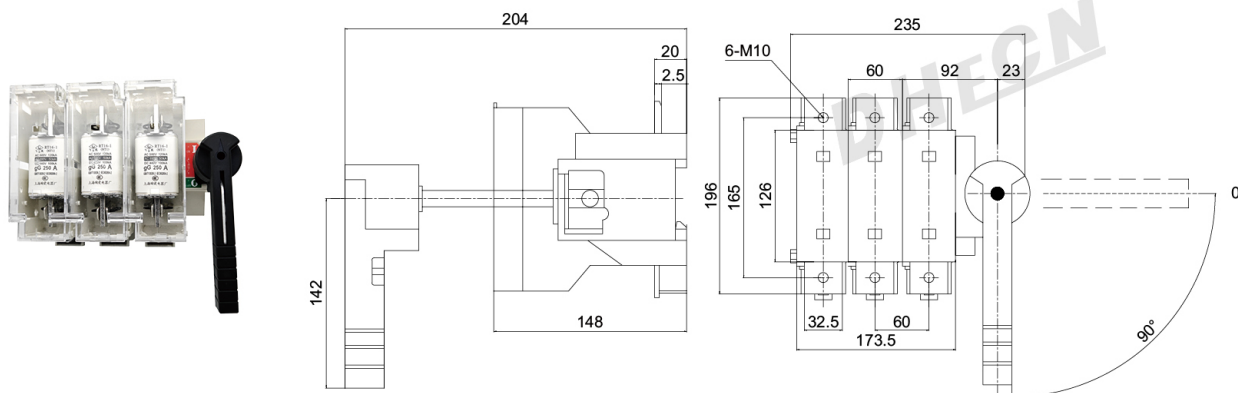
DGLR-160/4J outside operation, installation and outline dimensions (mm)

DGLR-160/4J outside operation, installation drawing



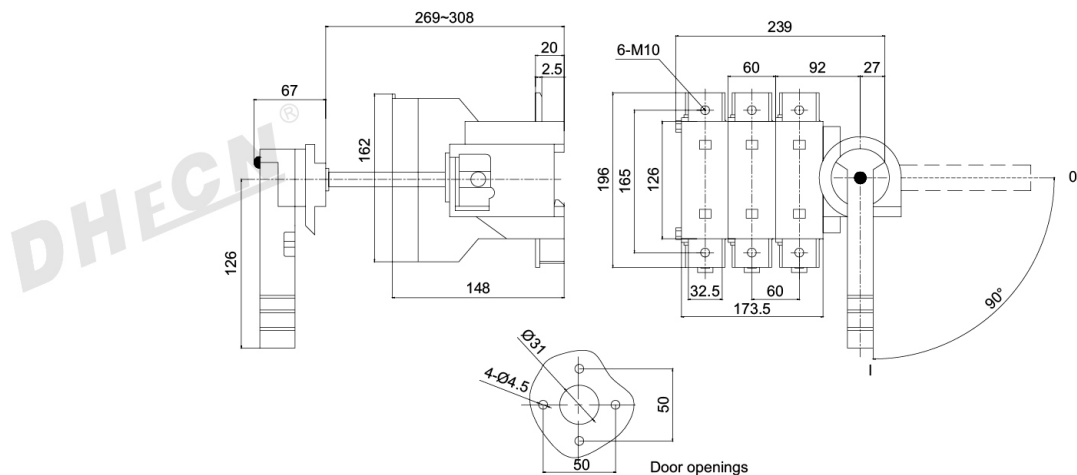
DGLR-250/3 direct operation, installation and outline dimensions (mm)

DGLR-250/3 direct operation, installation diagram



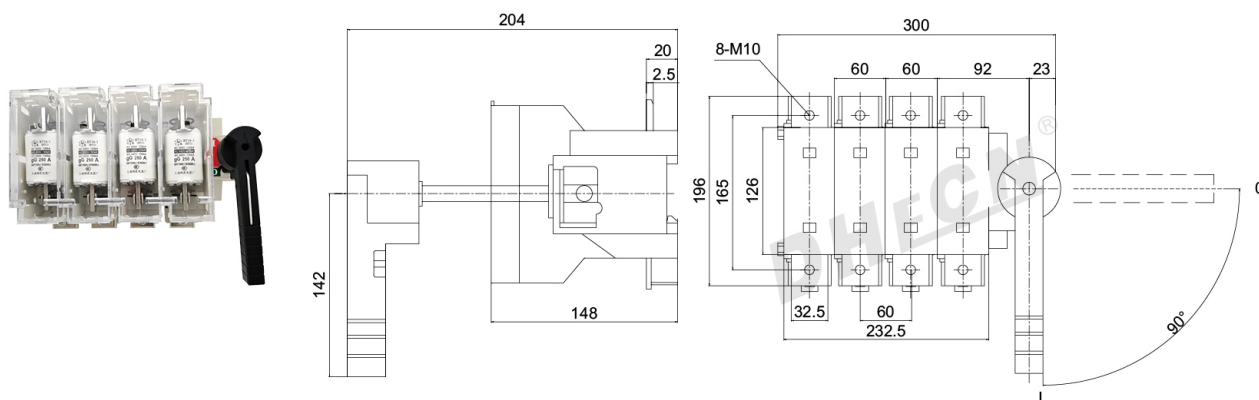
DGLR-250/3J outside operation, installation and outline dimensions (mm)

DGLR-250/3J outside operation, installation drawing



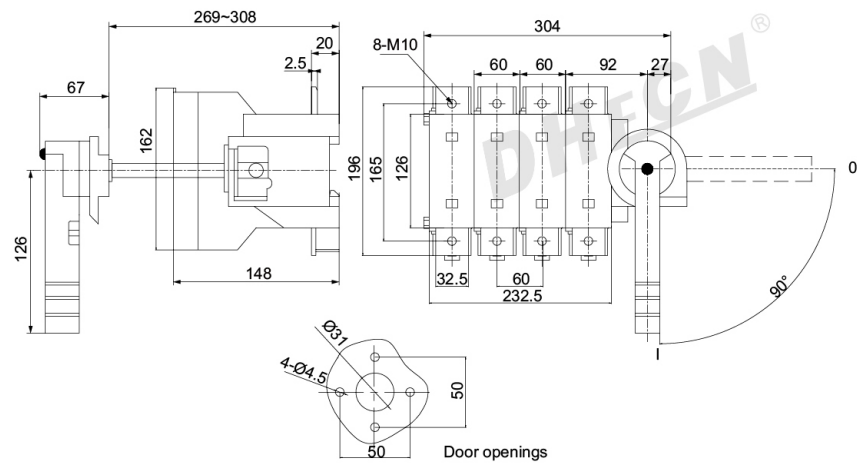
DGLR-250/4 direct operation, installation and outline dimensions (mm)

DGLR-250/4 direct operation, installation diagram



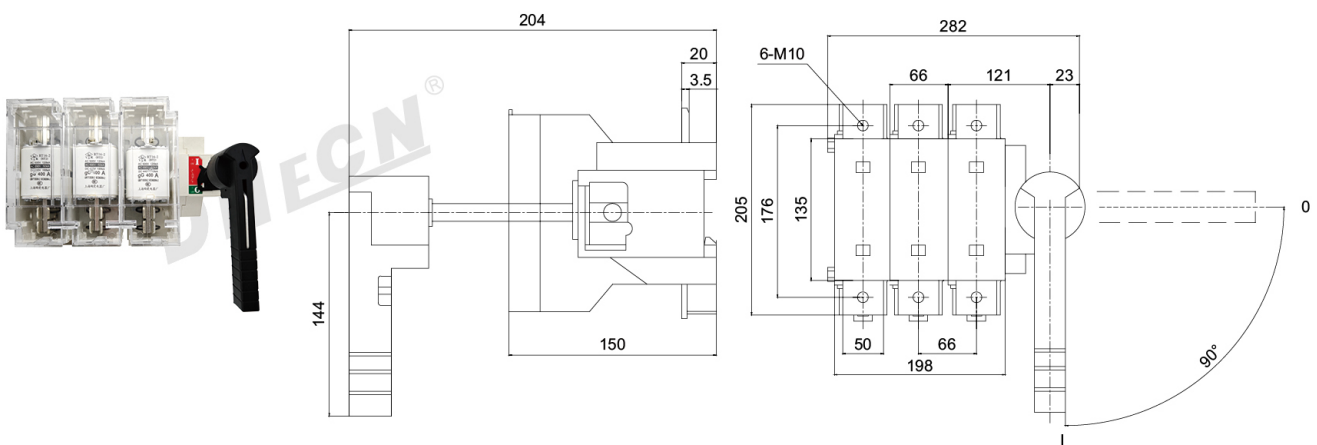
DGLR-250/4J outside operation, installation and outline dimensions (mm)

DGLR-250/4J outside operation, installation diagram



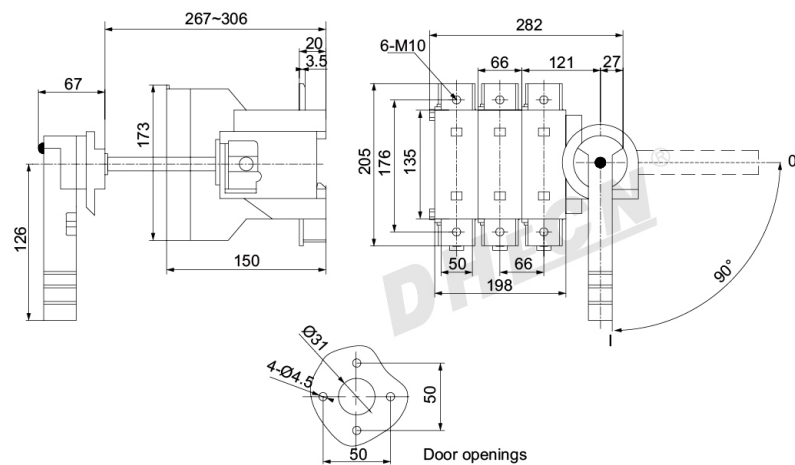
DGLR-400/3 direct operation, installation and outline dimensions (mm)

DGLR-400/3 direct operation, installation diagram



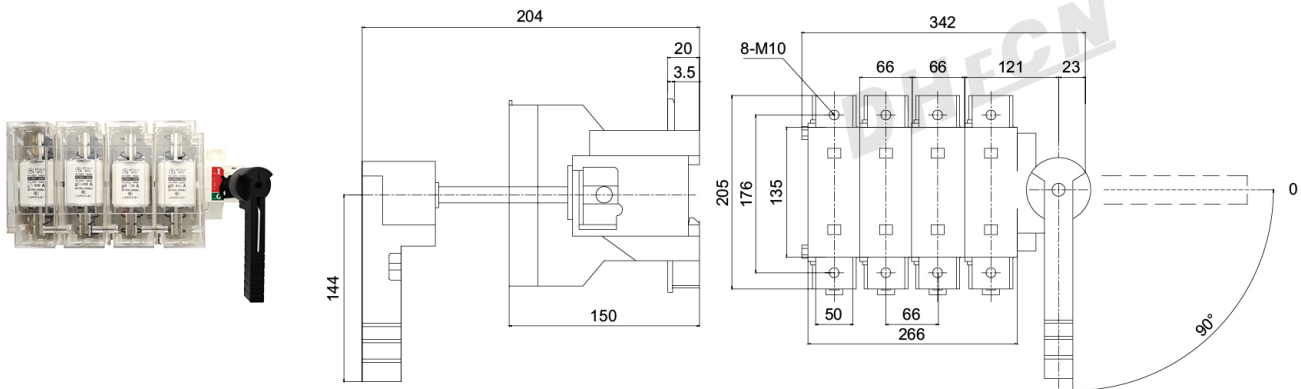
DGLR-400/3J outside operation, installation and outline dimensions (mm)

DGLR-400/3J outside operation, installation drawing



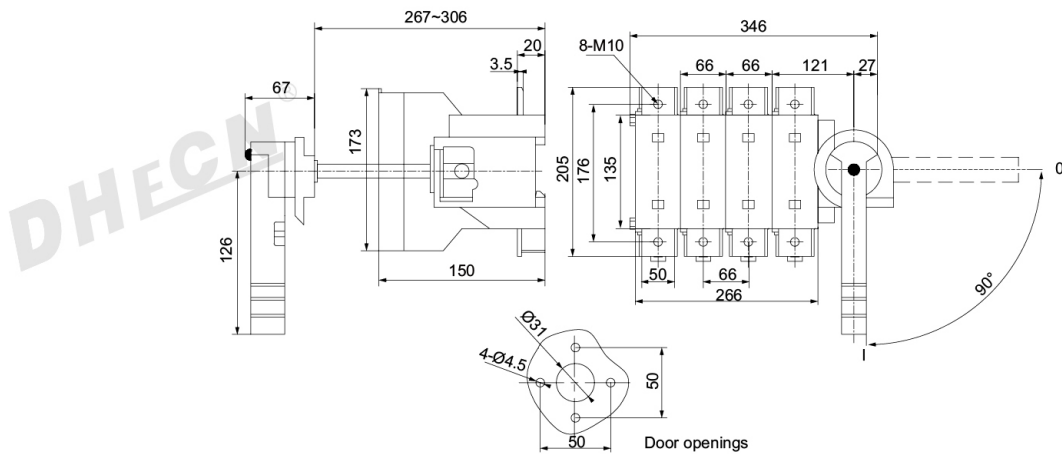
DGLR-400/4 direct operation, installation and outline dimensions (mm)

DGLR-400/4 direct operation, installation diagram



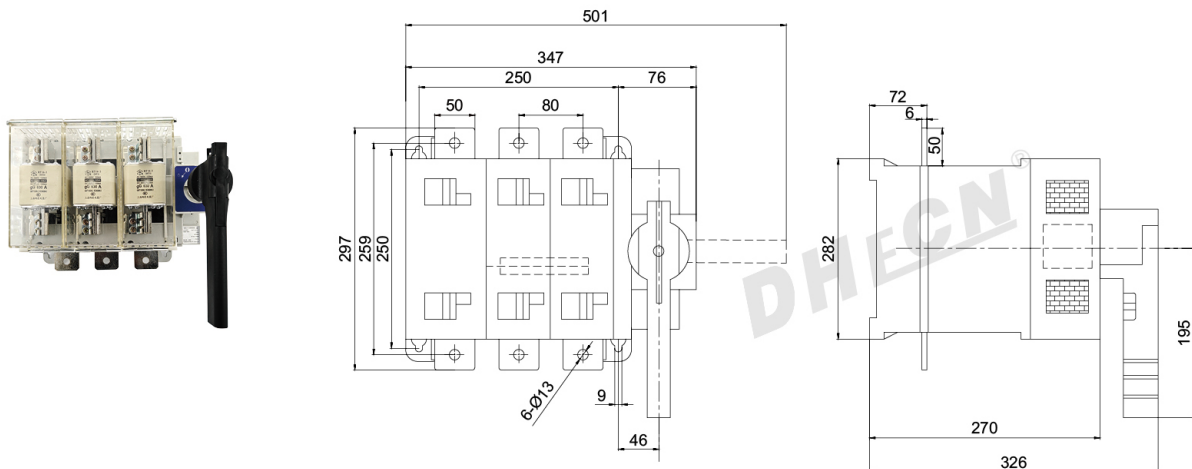
DGLR-400/4J outside operation, installation and outline dimensions (mm)

DGLR-400/4J outside operation, installation drawing



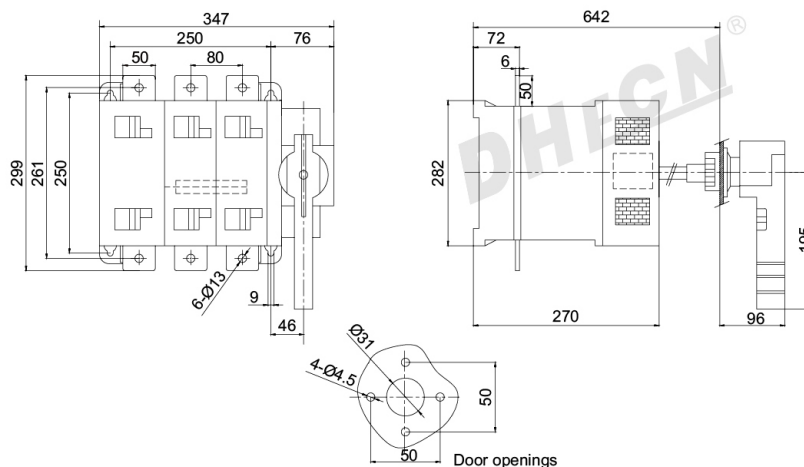
DGLR-630/3 direct operation, installation and outline dimensions (mm)

DGLR-630/3 direct operation, installation diagram



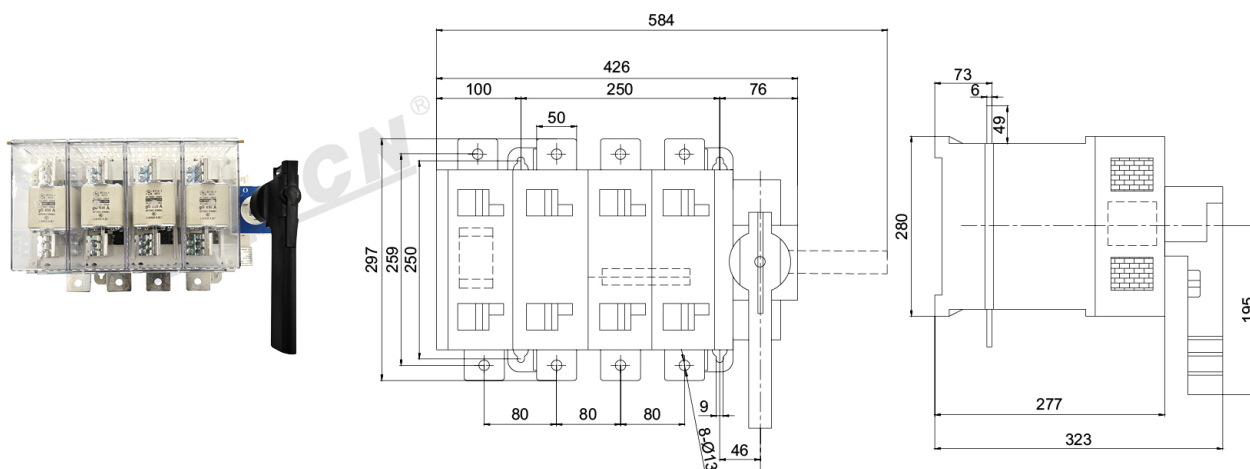
DGLR-630/3J outside operation, installation and outline dimensions (mm)

DGLR-630/3J outside operation, installation drawing



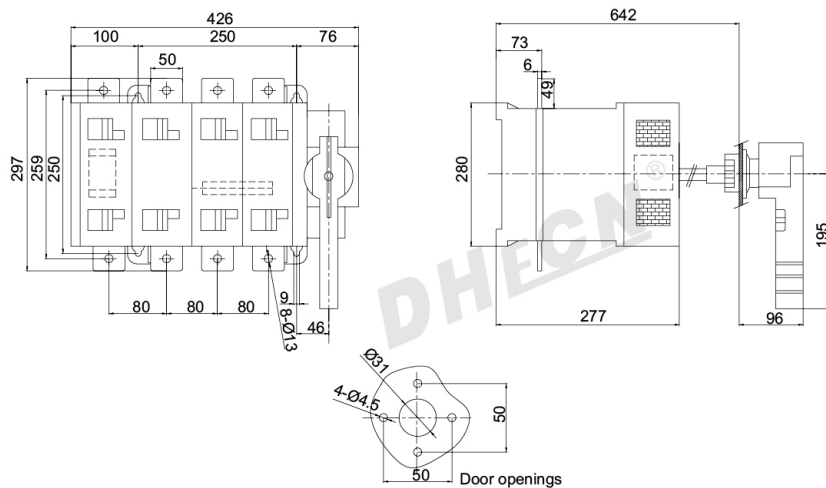
DGLR-630/4 direct operation, installation and outline dimensions (mm)

DGLR-630/4 direct operation, installation diagram



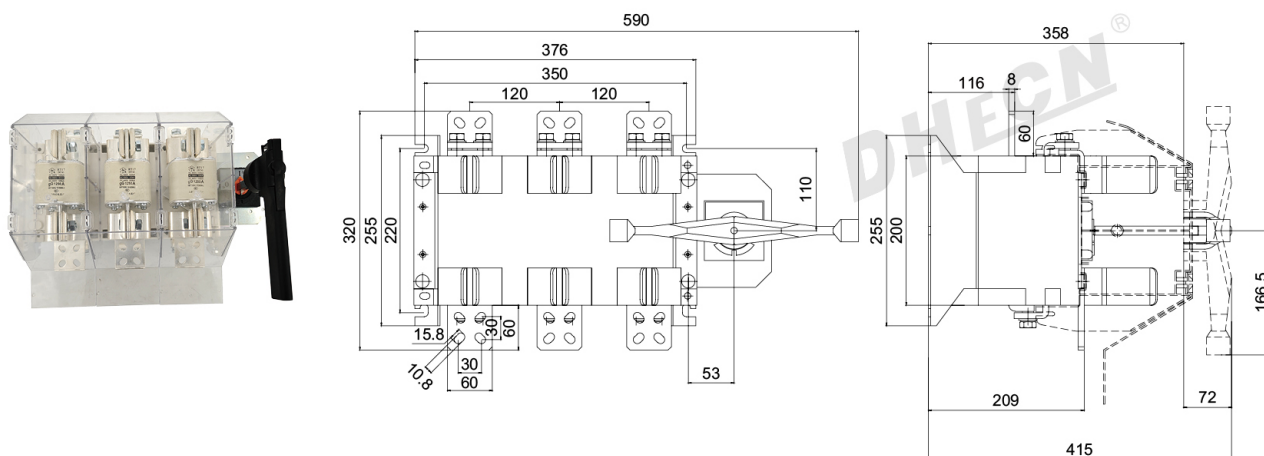
DGLR-630/4J outside operation, installation and outline dimensions (mm)

DGLR-630/4J outside operation, installation drawing



DGLR-800.1000.1250/3 direct operation, installation and outline dimensions (mm)

DGLR-800.1000.1250/3 direct operation, installation diagram



DGLR-800.1000.1250/3J outside operation, installation and outline dimensions (mm)

DGLR-800.1000.1250/3J outside operation, installation drawing

