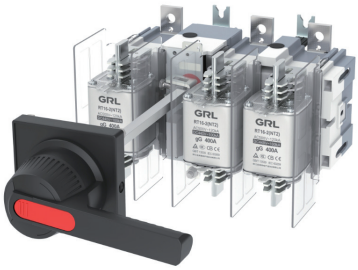
HH15
Series Disconnector Fuse Group and Disconnector Switch



Product Overview

The HH15(QSA) series switch-disconnectors with fuse-bases and HH15(QA), HH15(QP) switch-disconnectors (hereinafter referred to as switches) are primarily suitable for use in distribution circuits and motor circuits with high short-circuit currents, serving as manually operated, infrequently used main switches or master switches. They are widely used in advanced drawer-type low-voltage switchgear assemblies. Among them, the QSA series switches can provide circuit short-circuit protection.

Applicable Standards

GB/T 14048.3、IEC 60947-3

Product Certification

CCC

Model and Meaning

HH 15 (□) - □ / □ □

- Indicates number of auxiliary contacts:
  0: No auxiliary contacts (may be omitted)
  1: With one set of auxiliary contacts
  2: With two sets of auxiliary contacts
- Poles: 3: Three-pole
  4: Three-pole + (switchable Neutral pole)
  3N: Three-pole + (continuous Neutral pole)
- Conventional Thermal Current
- Product Type: QA: Without fuse-link, series contact structure
  QP: Without fuse-link, parallel contact structure
  QSA: With fuse-link, series contact structure
- Design Serial No.
- Disconnector Fuse Group/Disconnector Switch

Normal Operating Conditions

1. Ambient air temperature not higher than +40°C, not lower than -5°C, average temperature within 24 hours not exceeding +35°C.

2. Altitude of the installation site not exceeding 2000m.

3. At an ambient air temperature of +40°C, the relative humidity shall not exceed 50%. A higher relative humidity is permissible at lower temperatures, e.g., reaching 90% at 20°C. Special measures shall be taken for condensation caused by temperature changes.

4. Pollution degree of the surrounding environment: 3.

5. The switch shall be installed in a location free from significant shaking, impact vibration, and rain/snow intrusion. The installation site shall be free of explosive hazardous substances, and the medium shall contain no gases or dust sufficient to corrode metals or damage insulation.

Structural Features

The switch adopts a front rotary operation method, consisting of an operating mechanism, contact system, handle, etc.

The switch features a fully enclosed structure with spring energy storage operation. The closing and breaking speed is independent of the operator's action speed, thus ensuring the safety of personnel and equipment.

The switch has a uniquely designed contact system. The moving contact system is directly formed from tinned copper busbars. The moving contact piece adopts a bridge-type structure with an automatic adjustment function, ensuring effective contact with the stationary contact, thereby guaranteeing stable product temperature rise.

The operating handle can be installed on the switchgear door. When the door is closed, the handle engages with the switch's operating rod. When the switch is in the closed position, the handle is interlocked with the door, preventing it from being opened.

The switch is also equipped with an extension shaft. Special lengths can be custom ordered.

HH15 Series Disconnector Fuse Group and Disconnector Switch

Main Technical Parameters

HH15(QSA)-□/□□

Model				QSA-125	QSA-160	QSA-250	QSA-400	QSA-630	QSA-800	QSA-1000	QSA-1250
Poles				3,3N,4	3,3N,4	3,3N,4	3,3N,4	3,3N,4	3,3N,4	3,3N,4	3,3N,4
Rated Insulation Voltage Ui			V	1000	1000	1000	1000	1000	1000	1000	1000
Rated Impulse Withstand Voltage Uimp			kV	12	12	12	12	12	12	12	12
Rated Operational Voltage Ue			V	400/415/690	400/415/690	400/415/690	400/415/690	400/415/690	400/415/690	400/415/690	400/415/690
Conventional Thermal Current			A	125	160	250	400	630	800	1000	1250
Rated Operational Current	AC-23B	400V/415V	A	125	160	250	400	630	800	1000	1250
	AC-21B AC-22B	690V	A A	125	160	250	400	630	800	1000	1250
	AC-23B	690V	A	100	100	200	315	630	800	800	800
Rated Conditional Short-circuit Current			kA	100/50	100/50	100/50	100/50	100/50	100/50	100/50	100/50
Mechanical Endurance			次	1700	1700	1400	1400	800	500	500	500
Electrical Endurance			次	300	300	200	200	200	100	100	100
Fuse Size				00	00	1	2	3	3	4M	4
Operating Torque			N.m	7.5	16	16	16	30	30	38	38
Conventional Free-air Thermal Current of Aux. Contacts Ith 380V、AC-13				6	6	6	6	6	6	6	6

HH15(QA)-□/□□

Model			QA-125	QA-160	QA-200	QA-400	QA-630	QA-1000	QA-1250	QA-1600
Poles			3,3N,4	3,3N,4	3,3N,4	3,3N,4	3,3N,4	3,3N,4	3,3N,4	3,3N,4
Rated Insulation Voltage Ui		V	1000	1000	1000	1000	1000	1000	1000	1000
Rated Impulse Withstand Voltage Uimp		kV	12	12	12	12	12	12	12	12
Rated Operational Voltage Ue		V	415/690	415/690	415/690	415/690	415/690	415/690	400/690	400/690
Conventional Thermal Current		A	125	160	200	400	630	1000	1250	1600
Rated Operational Current:AC-23B	415V	A	125	160	200	400	630	1000	1250	1600
	690V		125	160	160	400	400	630	1000	1000
Rated Short-time Withstand Current Icw		kA/1s	5	5	5	12.6	12.6	25	50	50
Mechanical Endurance		次	1400	1400	1400	800	800	800	500	500
Electrical Endurance		次	200	200	200	200	200	200	100	100
Operating Torque		N.m	7.5	7.5	7.5	16	16	30	38	38
Conventional Free-air Thermal Current of Aux. Contacts Ith 380V、AC-13			6	6	6	6	6	6	6	6

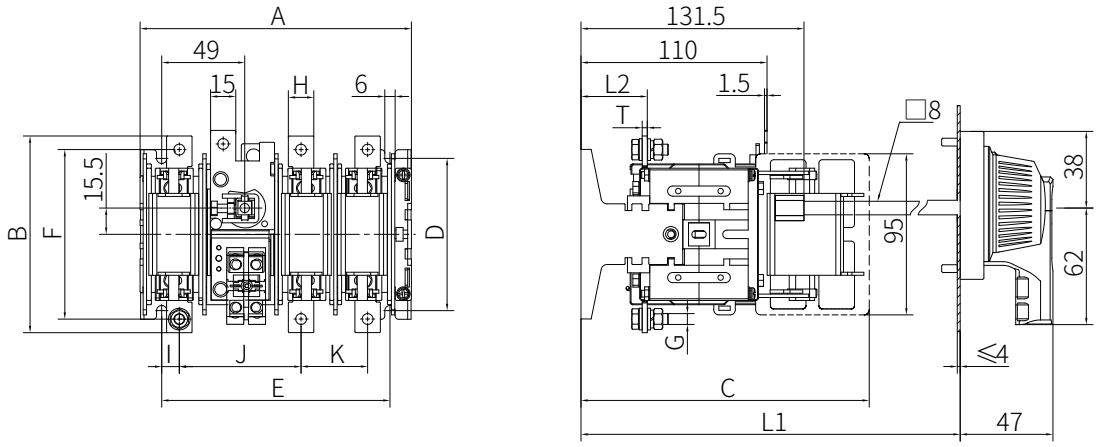
HH15(QP)-□/□□

Model			QP-250	QP-400	QP-630	QP-1000	QP-1250	QP-1600	QP-2000	QP-2500
Poles			3,3N,4	3,3N,4	3,3N,4	3,3N,4	3,3N,4	3,3N,4	3,3N,4	3,3N,4
Rated Insulation Voltage Ui		V	1000	1000	1000	1000	1000	1000	1000	1000
Rated Impulse Withstand Voltage Uimp		kV	12	12	12	12	12	12	12	12
Rated Operational Voltage Ue		V	415/690	415/690	415/690	415/690	415/690	415/690	400/690	400/690
Conventional Thermal Current		A	250	400	630	1000	1250	1600	2000	2500
Rated Operational Current: AC-21B	415V	A	-	-	-	-	-	-	-	2500
	690V		-	400	630	1000	800	1000	2000	2500
Rated Operational Current: AC-22B	415V	A	250	400	630	1000	1250	1600	2000	-
	690V		250	-	-	-	-	-	-	-
Rated Short-time Withstand Current Icw		kA/1s	8	25	25	25	50	50	60	60
Mechanical Endurance		次	1400	800	800	500	500	500	500	500
Electrical Endurance		次	200	200	200	100	100	100	100	100
Operating Torque		N.m	16	16	16	30	38	38	38	38
Conventional Free-air Thermal Current of Aux. Contacts Ith 380V、AC-13			6	6	6	6	6	6	6	6

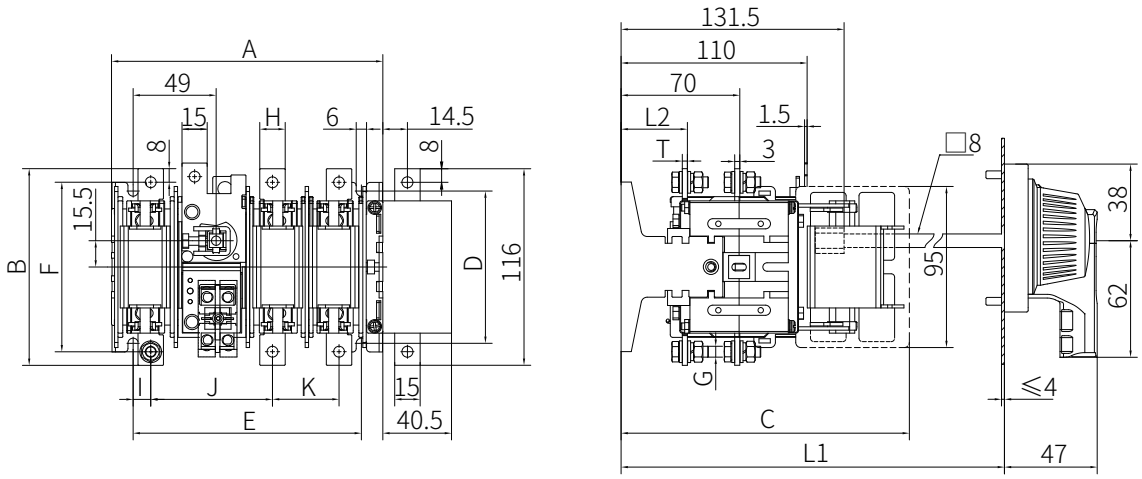
HH15
Series Disconnector Fuse Group and Disconnector Switch

Outline and Mounting Dimensions (mm)

HH15(QSA)-125/3 Outline and Mounting Dimensions



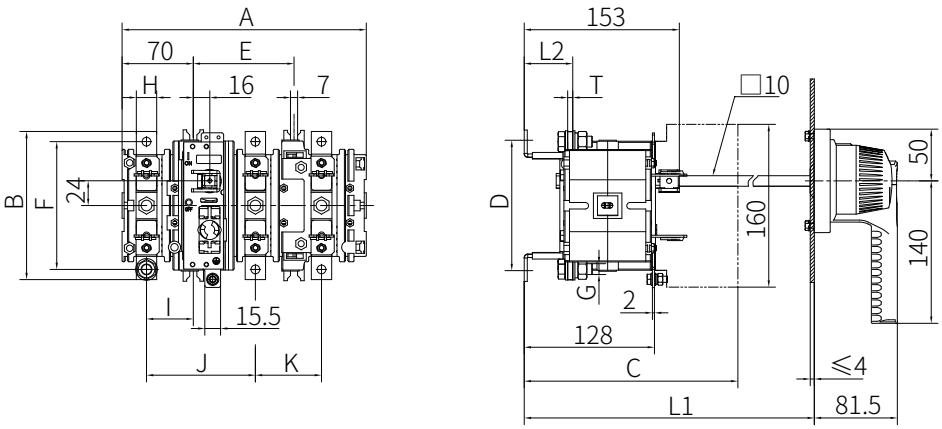
HH15(QSA)-125/3N、HH15(QSA)-125/4 Outline and Mounting Dimensions



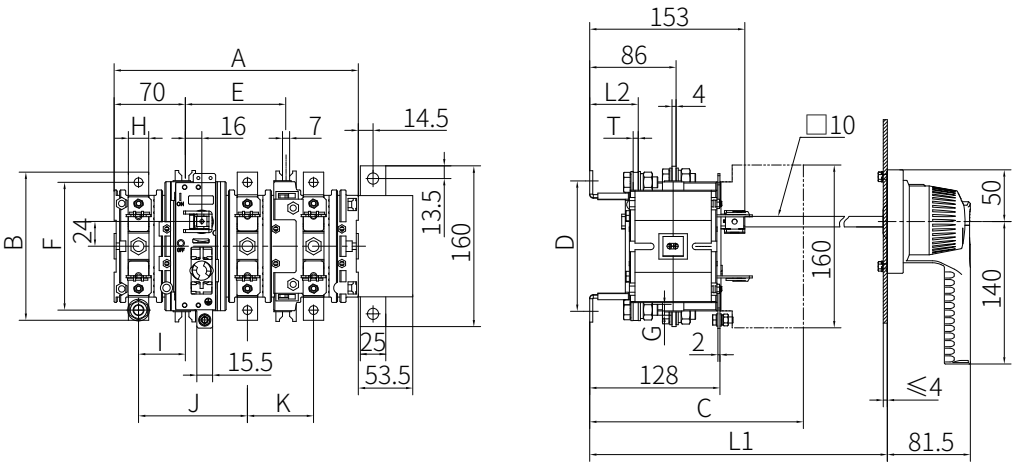
Model	A	B	C	D	E	F	G	H	I	J	K	L1	L2	T
HH15(QSA)-125	160±1.25	116±1.10	170±1.25	90±0.75	135±1.25	100±1.10	M6	15	10	72	39.5	240-280	39	3

HH15
Series Disconnector Fuse Group and Disconnector Switch

HH15(QSA)-160/3~400/3 Outline and Mounting Dimensions



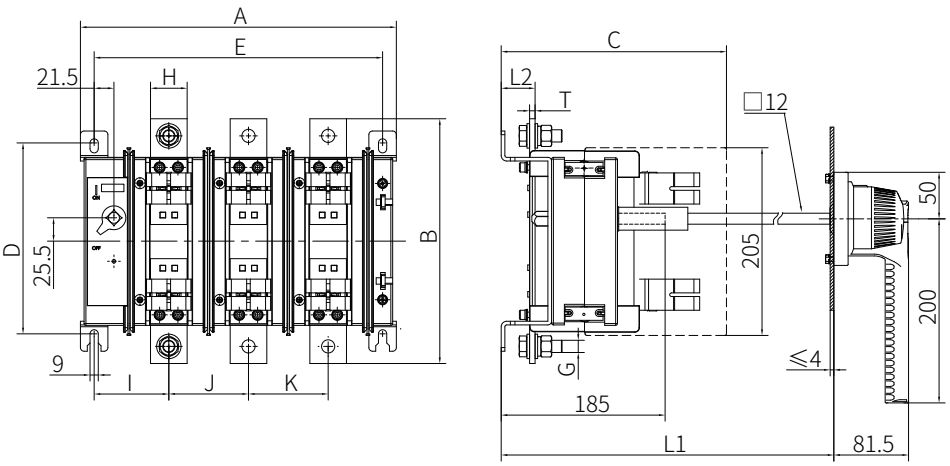
HH15(QSA)-160/3N~400/3N、HH15(QSA)-160/4~~400/4 Outline and Mounting Dimensions



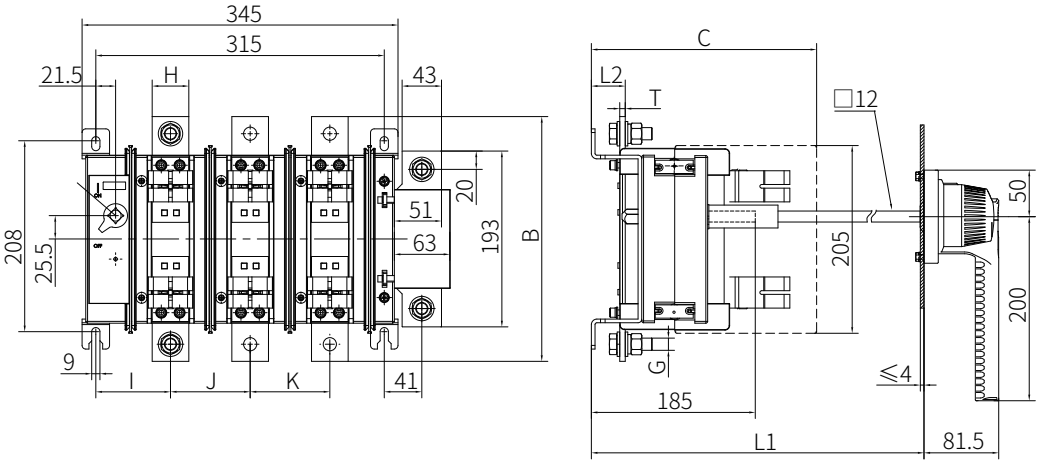
Model	A	B	C	D	E	F	G	H	I	J	K	L1	L2	T
HH15(QSA)-160	240±1.45	145±1.25	210±2.0	130±1.25	100±1.10	126±1.25	M8	20	46	107	65	315-360	48	5
HH15(QSA)-250	240±1.45	160±1.25	210±2.30	130±1.25	100±1.10	135±2.0	M10	25	43.5	107	65	315-360	43	4
HH15(QSA)-400	240±1.45	160±1.25	210±2.30	130±1.25	100±1.10	135±2.0	M10	25	43.5	107	65	315-360	43	6

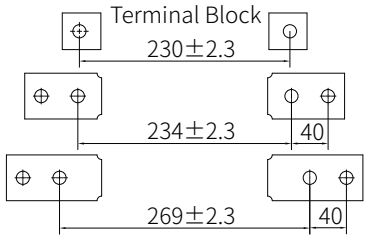
HH15
Series Disconnector Fuse Group and Disconnector Switch

HH15(QSA)-630/3~800/3 Outline and Mounting Dimensions



HH15(QSA)-630/3N~800/3N、HH15(QSA)-630/4~800/4 Outline and Mounting Dimensions





HH15(QSA)-630A Standard Type

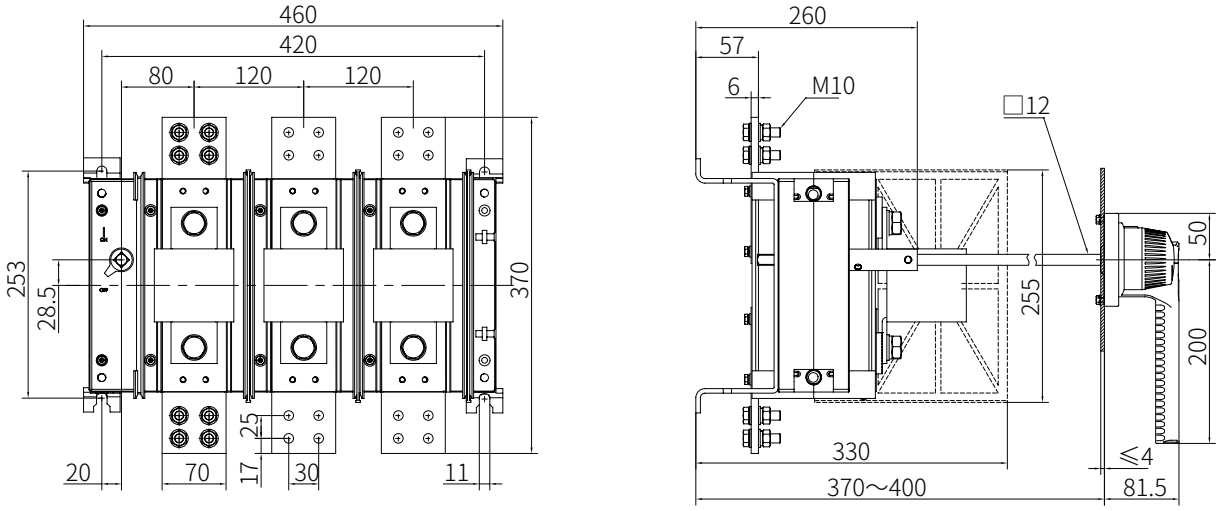
HH15(QSA)-800A Standard Type

HH15(QSA)-800A State Grid Type

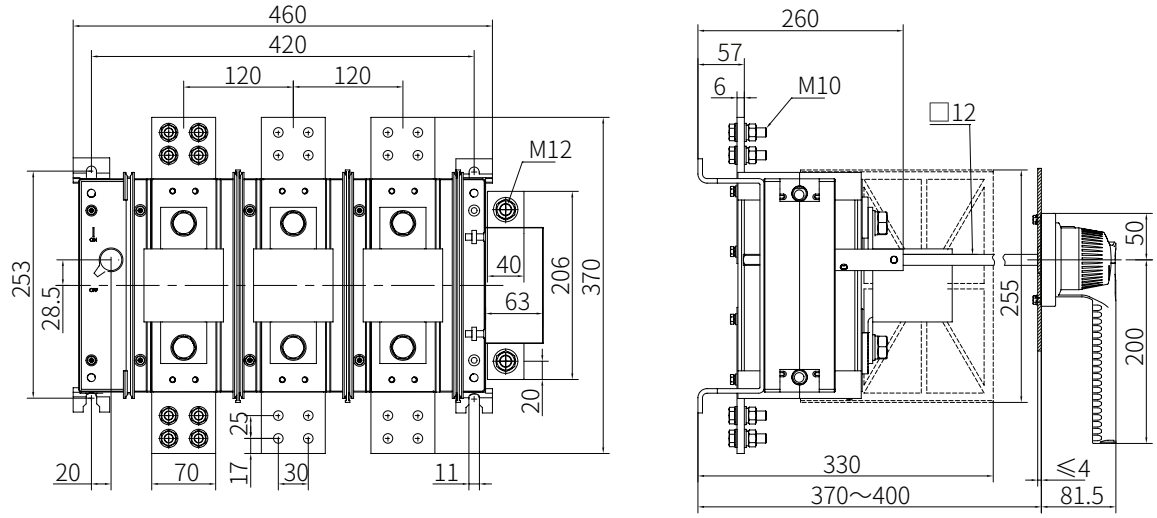
Model	A	B	C	D	E	F	G	H	I	J	K	L1	L2	T
HH15(QSA)-630	345±1.80	268±2.60	250±2.60	208±1.60	315±1.60		M12	40	80.5	87	87	320-350	44	5.5
HH15(QSA)-800 Standard Type	345±1.80	350±2.60	250±2.60	208±1.60	315±1.60		M12	50	80.5	87	87	320-350	44	5.5
HH15(QSA)-800 State Grid Type	345±1.80	385±2.60	250±2.60	208±1.60	315±1.60		M12	70	80.5	87	87	320-350	44	5.5

HH15
Series Disconnector Fuse Group and Disconnector Switch

HH15(QSA)-1000/3 Outline and Mounting Dimensions

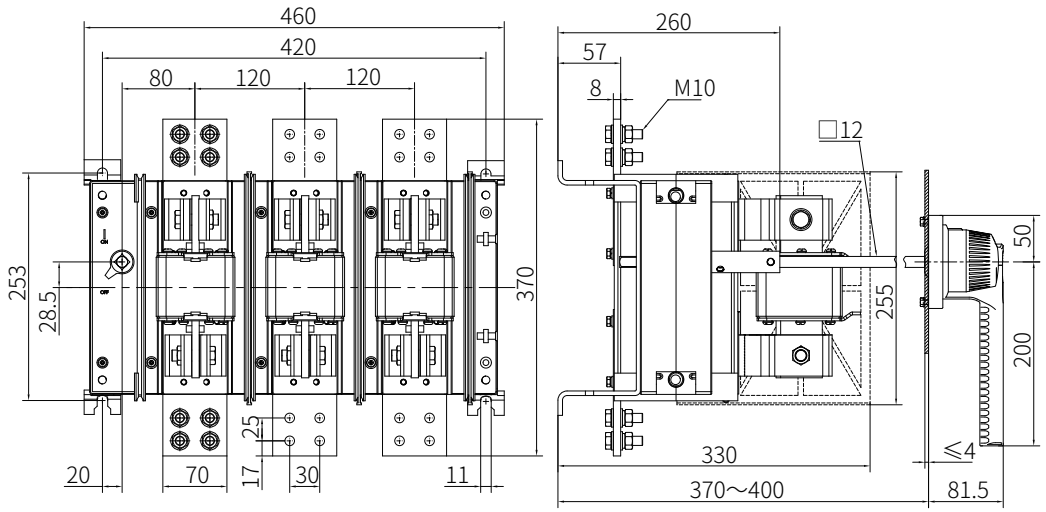


HH15(QSA)-1000/3N、HH15(QSA)-1000/4 Outline and Mounting Dimensions

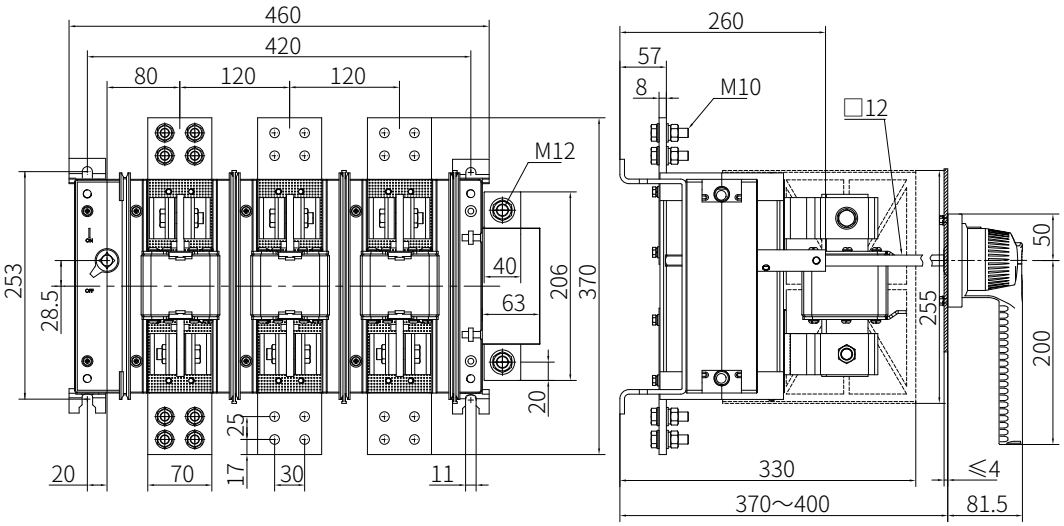


HH15
Series Disconnector Fuse Group and Disconnector Switch

HH15(QSA)-1250/3 Outline and Mounting Dimensions



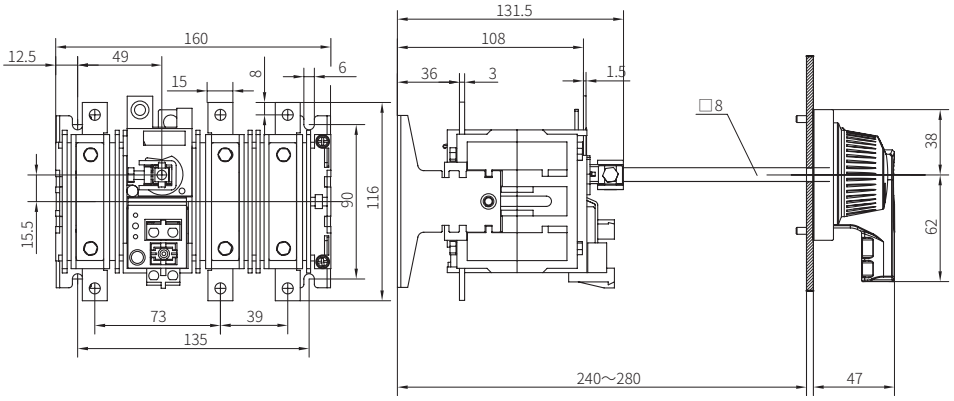
HH15(QSA)-1250/3N、HH15(QSA)-1250/4 Outline and Mounting Dimensions



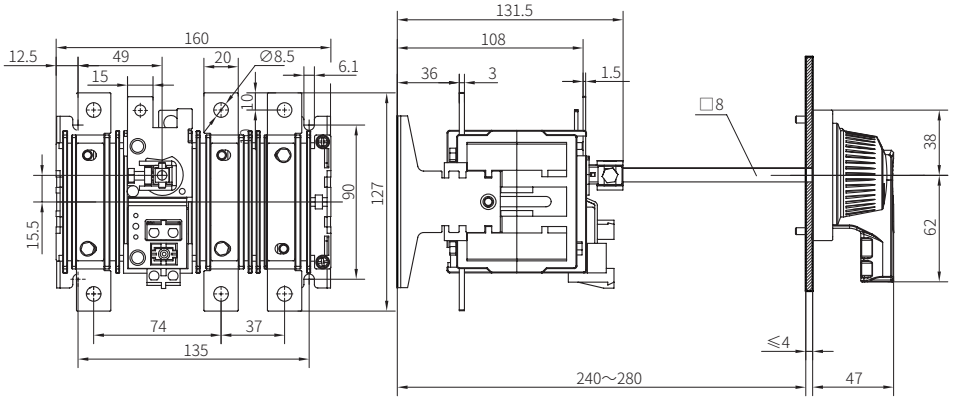
HH15
Series Disconnector Fuse Group and Disconnector Switch

HH15(QA) Series Switch-disconnector Mounting Dimensions

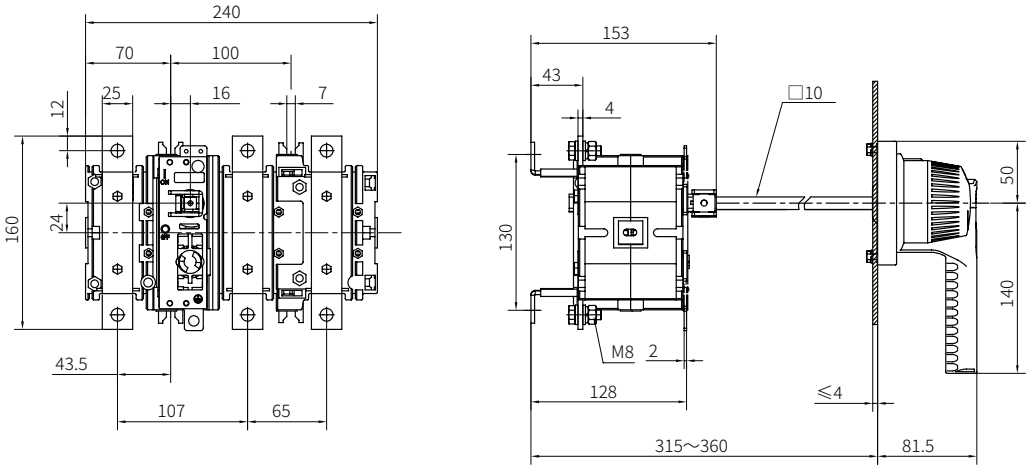
HH15(QA)-125/3



HH15(QA)-160/3
HH15(QA)-200/3

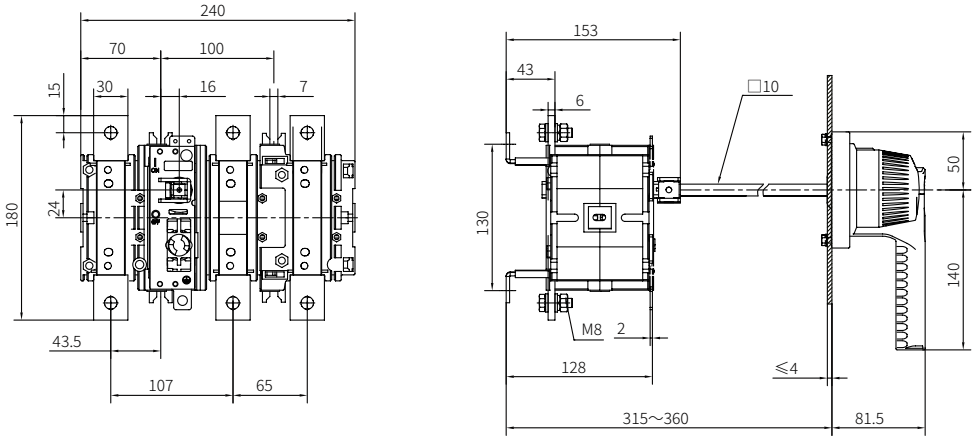


HH15 (QA) -400/3

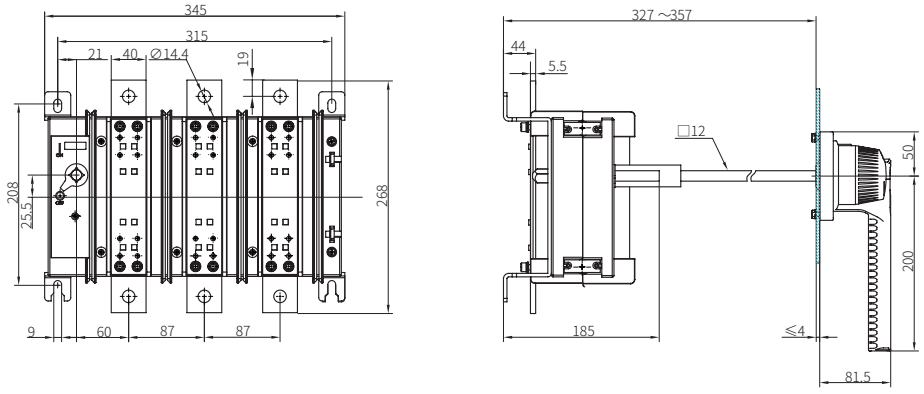


HH15
Series Disconnector Fuse Group and Disconnector Switch

HH15 (QA) -630/3

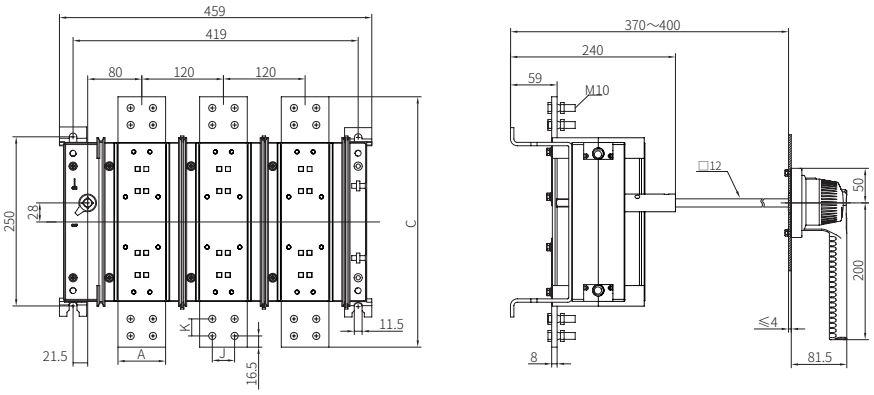


HH15 (QA) -1000/3



HH15 (QA) -1250/3
HH15 (QA) -1600/3

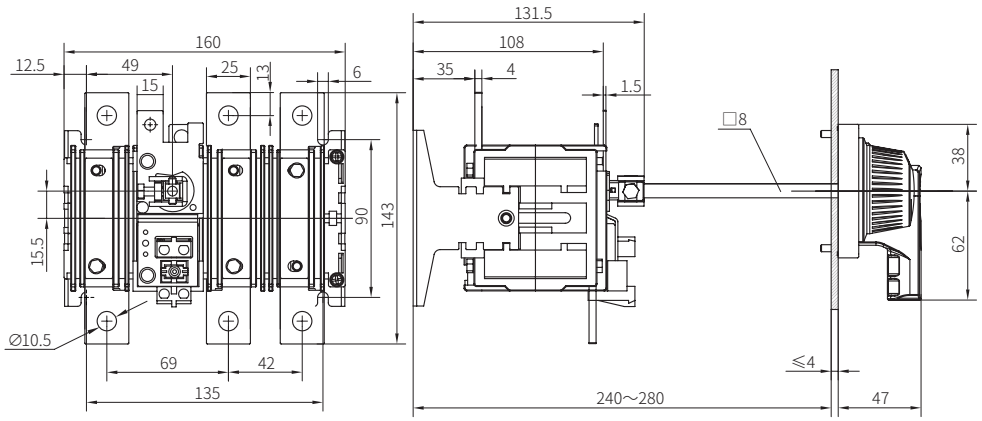
	QA-1250	QA-1600
A	70	80
C	370	380
K	25	30
J	30	40



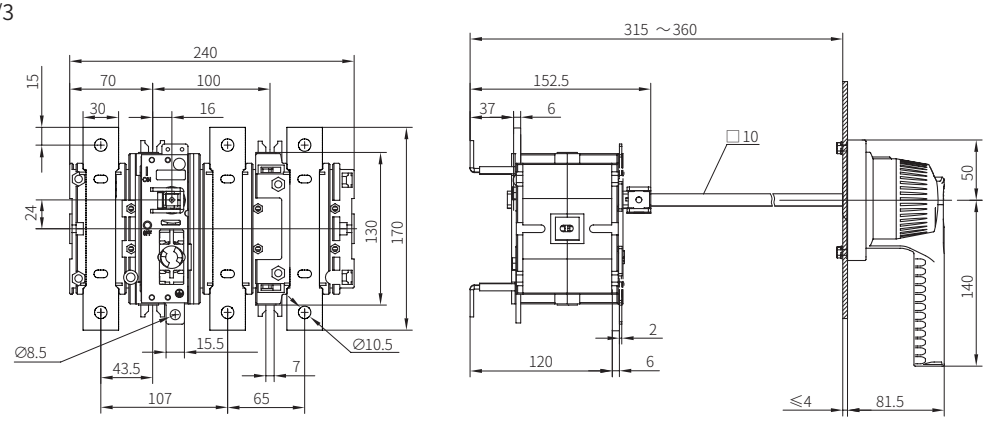
HH15
Series Disconnector Fuse Group and Disconnector Switch

HH15(QP) Series Switch-disconnector Mounting Dimensions

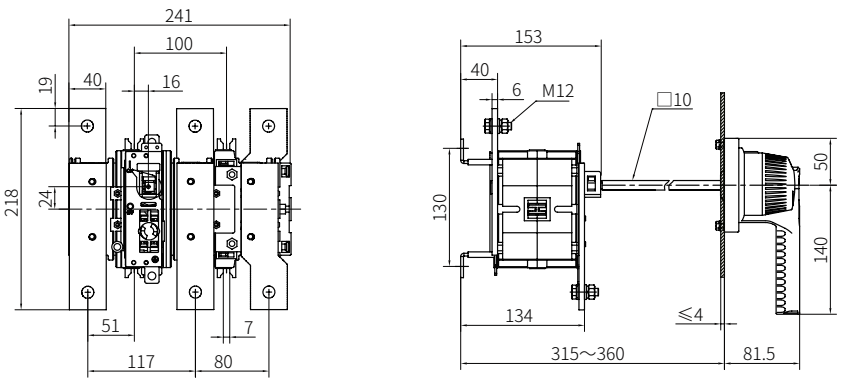
HH15 (QP) -250/3



HH15 (QP) -400/3
HH15 (QP) -630/3

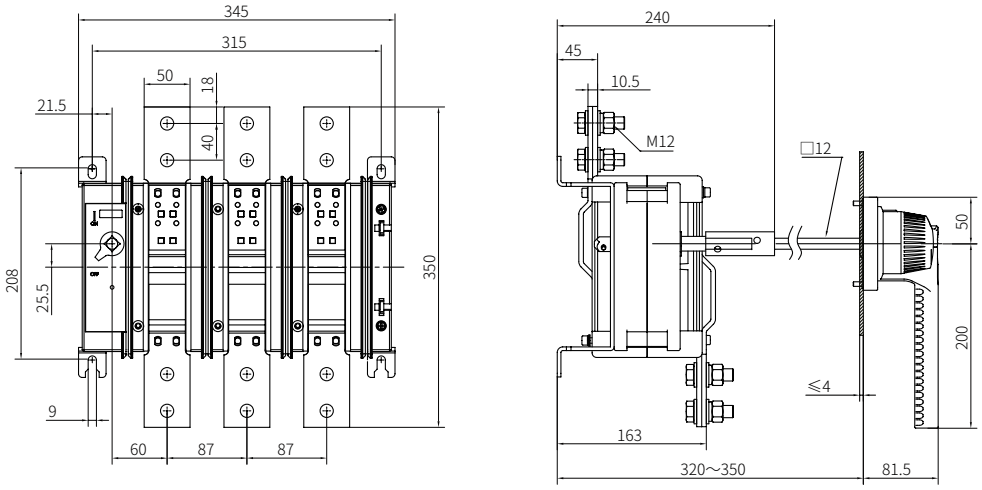


HH15 (QP) -1000/3



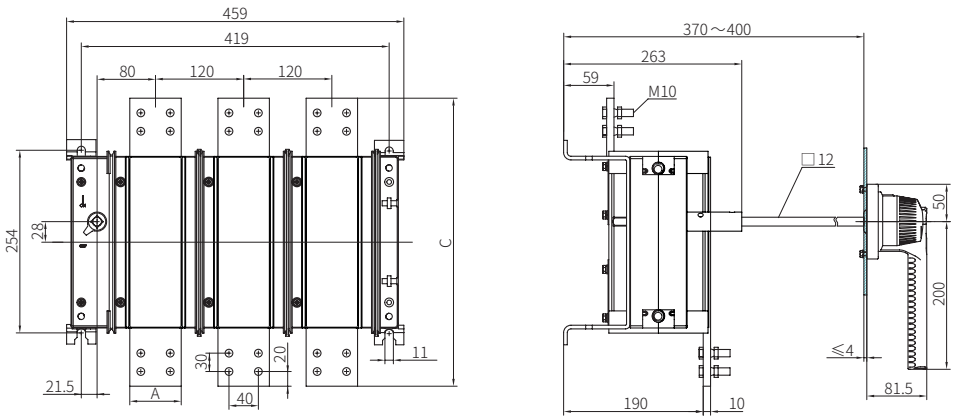
HH15
Series Disconnector Fuse Group and Disconnector Switch

HH15 (QP) -1250/3
HH15 (QP) -1600/3

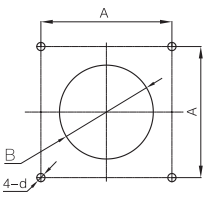


HH15 (QP) -2000/3
HH15 (QP) -2500/3

	QP-2000	QP-2500
A	70	80
C	392	400



Panel Cutout Dimensions



Switch Model	A	B	d
HH15(QSA)-125	65±0.2	Φ42 $^{+4}_{-0}$	Φ4.5 $^{+0.5}_{-0}$
HH15(QA)-125~200			
HH15(QP)-250			
HH15(QSA)-160~1250	88±0.2	Φ63 $^{+4}_{-0}$	Φ5.5 $^{+0.5}_{-0}$
HH15(QA)-400~1600			
HH15(QP)-400~2500			

Ordering Instructions

The ordering unit must specify the switch type characteristics, voltage level, current rating, Poles, operation mode, and quantity, etc. For special orders, please consult our company's technical department.

Examples:

HH15(QSA)-125/3 400V Fuse current 100A 10 units
HH15(QA)-200/3 415V 10 units
HH15(QP)-2000/32 415V 10 units