

HR17

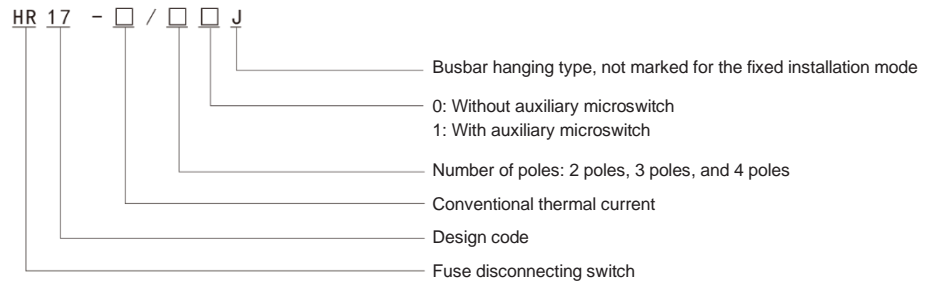
Series Fuse Disconnecting Switch



I. Scope of Application

The HR17 Series Fuse Disconnecting Switch (hereinafter referred to as "switch") is suitable for the distribution circuits and motor circuits with high short-circuit current with AC 50 Hz, rated voltage of 400 V and conventional thermal current up to 630 A. This product is used as the power switch, disconnecting switch and emergency switch that are not frequently operated manually, and for the short-circuit protection, but generally not used to directly switch on and off a single motor. The switch is beautiful in shape, novel and concise, simple in structure and easy to operate. It complies with IEC60947-3 and GB14048.3 and is the best choice among similar products!

II. Model Description



III. Structural Features

1. The switch is mainly composed of a base, an upper cover, and an arc-extinguishing cover. The stationary contact is directly installed on the base, and the fuse link is installed in the upper cover and directly used as a moving contact blade. The upper cover can be opened in a fan shape along the fulcrum of the base, so that the fuse link can be completely pulled out from the socket with a large isolation distance. The upper cover can also be conveniently removed from the base, which is convenient for the installation and safe removal and replacement of the fuse link.
2. The base, upper cover and arc-extinguishing cover of the switch are all made of arc-resistant plastic, which are of fully plastic structure with good mechanical strength, flame-retardant performance and dielectric performance, as well as simple structure, convenient disassembly and assembly, safety and reliability. Many metal arc-extinguishing grids are installed in the arc-extinguishing cover, which enhances the arc extinguishing ability of the switch, eliminates the harm of arcing and prolongs the service life of the contact.
3. The switch can be operated with load, which can be connected to the busbar or fixedly installed on the panel. It can be manually inserted into the fuse as a moving contact, or directly used as a disconnecting switch with a blade. It can be equipped with an auxiliary microswitch to indicate the making and breaking of the switch.

1. Main technical parameters of the switch

Conventional thermal current I _{th}	63A	160A	250A	400A	630A
Rated insulation voltage U _i	660V	690V	690V	690V	800V
Rated working voltage U _e	AC400V				
Rated frequency	50Hz				
Rated making capacity (A)	10I _e				
Rated breaking capacity (A)	8I _e				
Rated limited short-circuit current (kA)	50kA				
Use category	AC-23B				
Rated working current I _e	63A	160A	250A	400A	630A

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Table (continued)

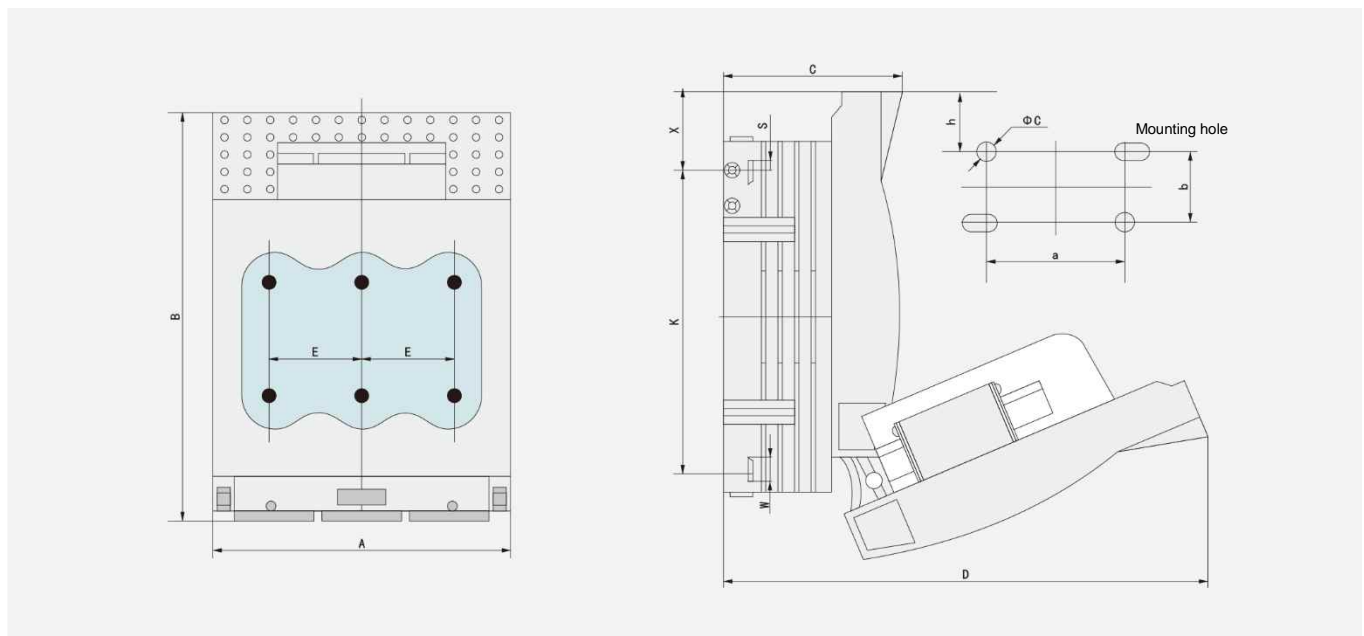
Mechanical life (times)	8000	5000	3000	2000	1500
Electrical life (times)	2000	1000	600	400	300
Operating force F (N)	≤150	≤250	≤300	≤350	≤400
Fuse loss power P	6W	12W	24W	34W	48W
Weight (three poles) kg	0.65	1.2	3.5	5.1	6.85
Main parameters of the auxiliary microswitch	50Hz, AC-15, 220V, 3A				

2. Matching between the switch and the fuse link

Conventional thermal current I _{th}	Size of fuse link matched	Rated current of fuse link (A)
63A	RT14-63	10. 12. 16. 20. 25. 32. 40. 50. 63
160A	NT00	10. 16. 25. 32. 40. 50. 63. 80. 100. 125. 160
250A	NT1	80. 100. 125. 160. 200. 225. 250
400A	NT2	125. 160. 200. 225. 250. 300. 315. 355. 400
630A	RT16-3, NT3	315. 355. 400. 425. 500. 630

V. Outline and Installation Dimensions of the Switch

1. Outline and installation dimensions of HR17 Series (Fixed Type) Switch

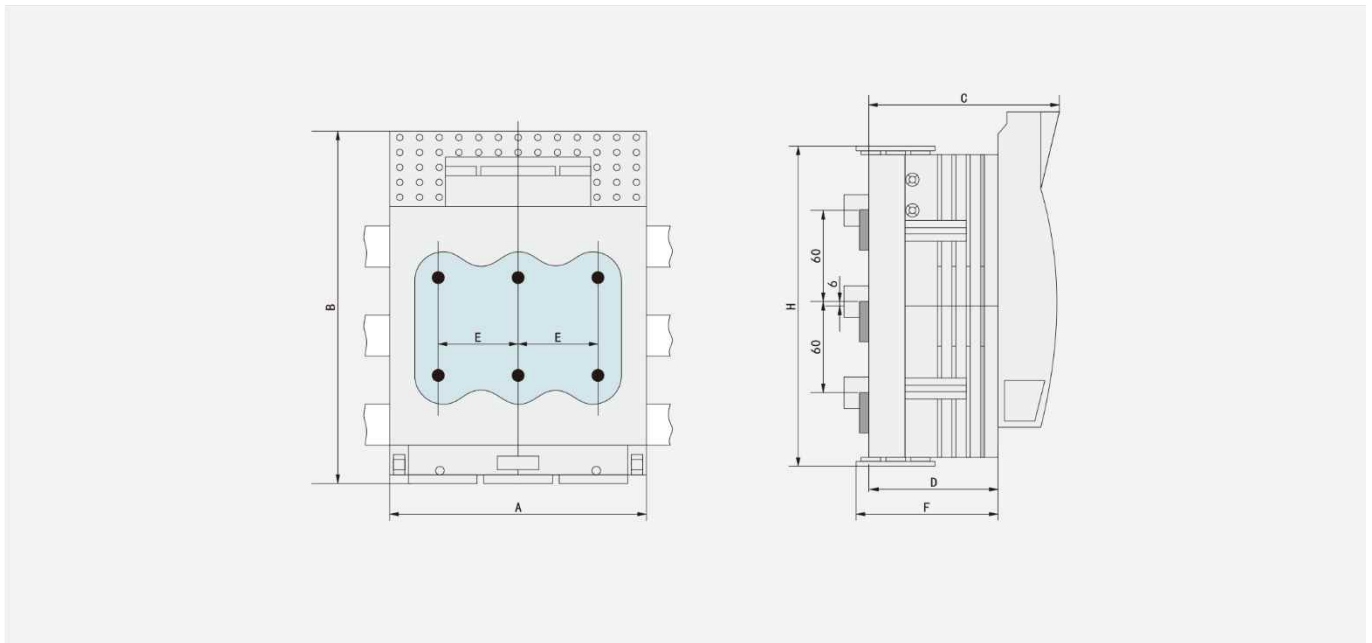


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Model		Outline dimension (mm)					Installation dimension (mm)			Terminal dimension							
		A	B	C	D	E	a	b	Φc	Width	Thickness	Screw thread	K	h	X	W	S
HR17-63	2 poles	74	116	80	150	31	31	/	Φ6	/	/	/	75	59	21.5	/	/
	3 poles	105	120	80	155	31	62	/	Φ6	/	/	/	75	63	25.5	/	/
HR17-160	3 poles	106	200	83	205	33	66	25	Φ7	20	2	M8	116	87.5	42	30	10
	4 poles	140	200	83	205	33	100	25	Φ7	20	2	M8	116	87.5	42	30	10
HR17-250	3 poles	185	247	110	295	57	114	50	Φ11	30	2	M10	186	110	42	33	11.5
	4 poles	242	247	110	295	57	172	50	Φ11	30	2	M10	186	110	42	33	11.5
HR17-400	3 poles	210	290	130	340	65	130	50	Φ11	33	2.5	M10	211	130	55	40	15
	4 poles	276	290	130	340	65	195	50	Φ11	33	2.5	M10	211	130	55	40	15
HR17-630	3 poles	256	300	145	360	81	162	50	Φ11	40	3.5	M12	211	140	59.5	44	18.5
HR17-800	4 poles	340	300	145	360	81	243	50	Φ11	40	3.5	M12	211	140	59.5	44	18.5

2. Outline and installation dimensions of the HR17 Series (Hanging Type) Switch



Model	A	B	C	D	E	F	H
HR17-160/30J	106	200	97	60	33	87	200
HR17-250/30J	185	247	128	88	57	110	220
HR17-400/30J	210	290	145	97	65	125	268
HR17-630/30J	256	300	160	112	81	139	285