

Table 15.1 Basic data of switch

Cat. No.	Models	Rated insulation voltage(V)	Rated working voltage(V)	Conventional free air thermal current (V)	Fuse link models	Dimensions /sizes (mm)	Weight (g)
1501	MRO.H0(DR0)-160	690	380, 500, 690	160	00, 000	See Fig. 15.1	1350

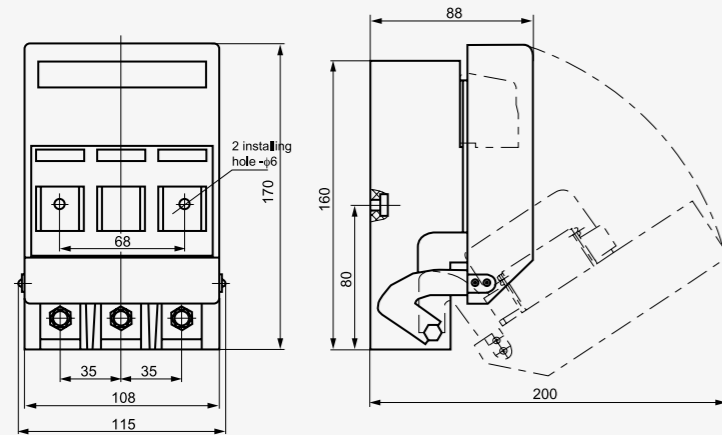


Figure 15.1 MRO.H0(DR0)-160

Table 15.2 The working current of the switch at different voltages and different applications

Models	Rated working voltage(V)	Rated working current /applications	Fuse link models	The rated breaking capacity of the fuse links (kA)
MRO.H0 (DR0)-160	380	160A/AC-22 160A/AC-23		100
	500	160A/AC-22 80A/AC-23	000,00	100
	690	160A/AC-21 36A/AC-23		50

Table 15.3 Rated open and breaking capacity of the switch

Rated working voltage(V)	Rated working current(A)	Applications	Rated open and breaking capacity					
			Connecting			Breaking		
I _{le}	U _{le}		I _{le}	U _{le}	COS ϕ	I _c /I _e	U _r /U _e	COS ϕ
380	160	AC-21	1.5	1.05	0.95	1.5	1.05	0.95
380	160	AC-22	3	1.05	0.65	3	1.05	0.65
380	100	AC-23	10	1.05	0.45	8	1.05	0.45
500	160	AC-21	1.5	1.05	0.95	1.5	1.05	0.95
500	100	AC-22	3	1.05	0.65	3	1.05	0.65
500	50	AC-23	10	1.05	0.45	8	1.05	0.45
690	100	AC-21	1.5	1.05	0.95	1.5	1.05	0.95
690	80	AC-22	3	1.05	0.65	3	1.05	0.65
690	36	AC-23	10	1.05	0.45	8	1.05	0.45

Note: I — connecting current
I_e — rated working current
I_c — breaking current
U — post connecting voltage
U_e — rated working voltage
U_r — recovery current



15.2 MRO.H1(DR1) Fuse Disconnecting Switches

► Applications

MRO.H1(DR1) series of fuse disconnecting switch, are mainly used in circus with high short-circuit current and motor circuit as power switch, disconnecting switch or emergency switch and for AC protection. MRO.H1(DR1) is unfit for directly opening and shutting single electric motor.

Rated insulation voltage up to AC 50Hz 800V; Rated working voltage up to 690V; Rated working current up to 630A.

Rated limiting short-circuit is 100kA at the voltage of 500V and 50kA at 690V.

The switch complies with GB14048.3 and IEC/EN60947-3.

► Design Features

The switch with half sealed structures is made up of two parts: the seat and the cover (melt-loading device). The front cooperation can observe the rated data of the fuse links and indicator status. MRO.H1(DR1)-160 is single phase, can be matched with 000 and 00 fuses. MRO.H1(DR1)-160 with three-phase abreast structure, can be matched with 000 and 00 fuse. MRO.H1(DR1)-250/1, MRO.H1(DR1)-400/1, MRO.H1(DR1)-630/1 are single phase, can be matched with 1, 2 and 3 fuse respectively. MRO.H1(DR1)-250, MRO.H1(DR1)-400, MRO.H1(DR1)-630 with three-phase abreast structure, can be matched with 1, 2 and 3 fuse respectively. Above switches with three-phase abreast structure can be assembled with the single phase, which makes four-phase abreast structure.

The switch has the features of small volume, reliable operation, convenient fuse install and removal and small-require manual operation power.

► Basic Data

Model meaning:

MRO · H 1 (DR1) - □ / □

- 1-single phase; blank-three phase
- Conventional free air thermal current (A)
- Former model
- Design No.
- Fuse disconnecting switch
- Company code

See the Drawing 15.2~15.7 and Table 15.4~15.6: the product types, rated insulation voltage, rated working voltage, conventional free air thermal current, dimensions, install size, working condition and the capacity for cutting out and in.

Table 15.4 Basic data of switch

Cat. No.	Models	Rated insulation voltage(V)	Rated working voltage(V)	Conventional free air thermal current (V)	Fuse link models	Dimensions /sizes (mm)	Weight (g)
1502	MRO.H1(DR1)-160/1	800	400, 500, 690	160	00, 000	See Fig. 15.2	290
1503	MRO.H1(DR1)-160	800	400, 500, 690	160	00, 000	See Fig. 15.3	700
1504	MRO.H1(DR1)-160/4	800	400, 500, 690	160	00, 000	See Fig. 15.3	990
1505	MRO.H1(DR1)-250/1	800	400, 500, 690	250	1	See Fig. 15.4	735
1506	MRO.H1(DR1)-250	800	400, 500, 690	250	1	See Fig. 15.5	1510
1507	MRO.H1(DR1)-250/4	800	400, 500, 690	250	1	See Fig. 15.5	2245
1508	MRO.H1(DR1)-400/1	800	400, 500, 690	400	2	See Fig. 15.6	1302
1509	MRO.H1(DR1)-400	800	400, 500, 690	400	2	See Fig. 15.7	3272
1510	MRO.H1(DR1)-400/4	800	400, 500, 690	400	2	See Fig. 15.7	4574
1511	MRO.H1(DR1)-630/1	800	400, 500, 690	630	3	See Fig. 15.6	1492
1512	MRO.H1(DR1)-630	800	400, 500, 690	630	3	See Fig. 15.7	3855
1513	MRO.H1(DR1)-630/4	800	400, 500, 690	630	3	See Fig. 15.7	5347

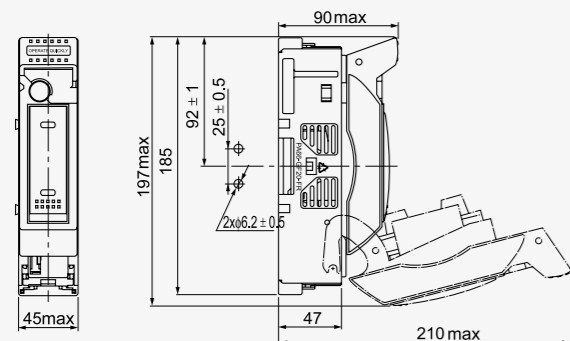


Figure 15.2 MRO.H1(DR1)-160/1

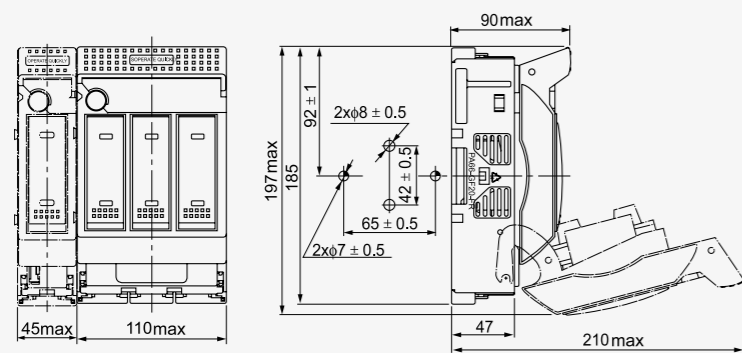


Figure 15.3 MRO.H1(DR1)-160 MRO.H1(DR1)-160/4

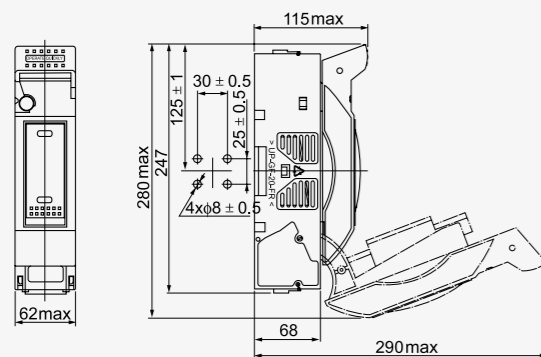


Figure 15.4 MRO.H1(DR1)-250/1

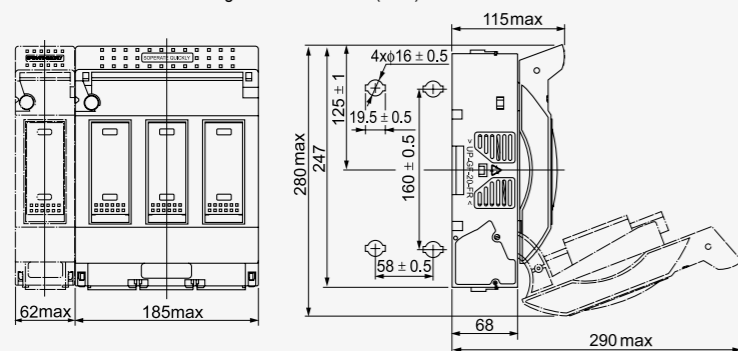


Figure 15.5 MRO.H1(DR1)-250 MRO.H1(DR1)-250/4

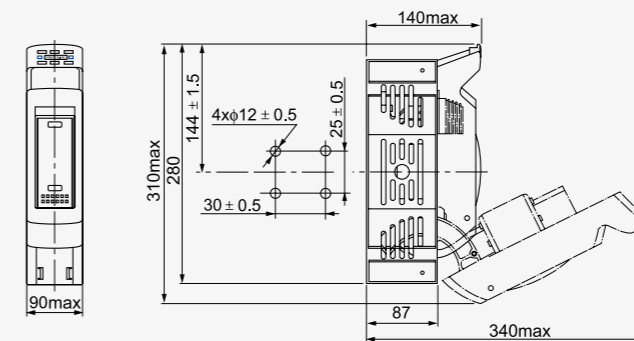


Figure 15.6 MRO.H1(DR1)-400/1 MRO.H1(DR1)-630/1

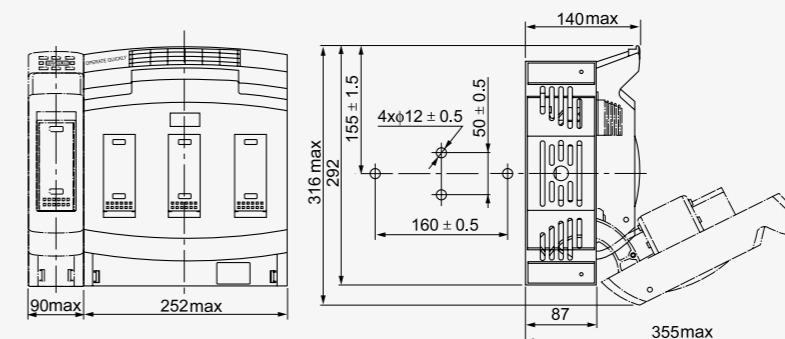


Figure 15.7 MRO.H1(DR1)-400 MRO.H1(DR1)-400/4
MRO.H1(DR1)-630 MRO.H1(DR1)-630/4

