

Centre-Break Disconnectors types SGF 72.5 ÷ 550 kV

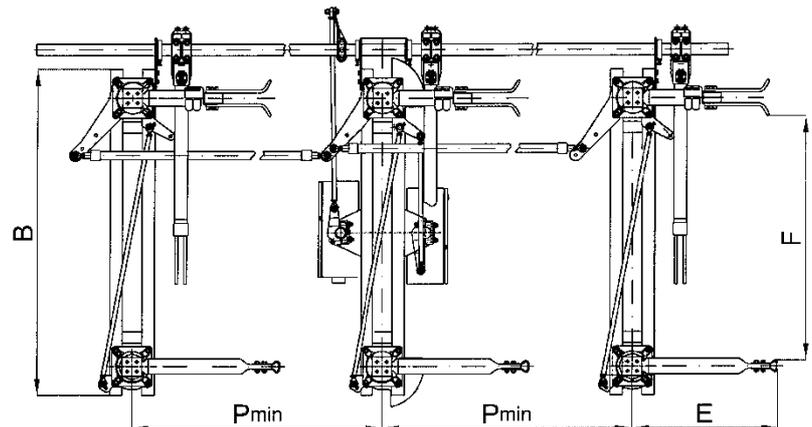
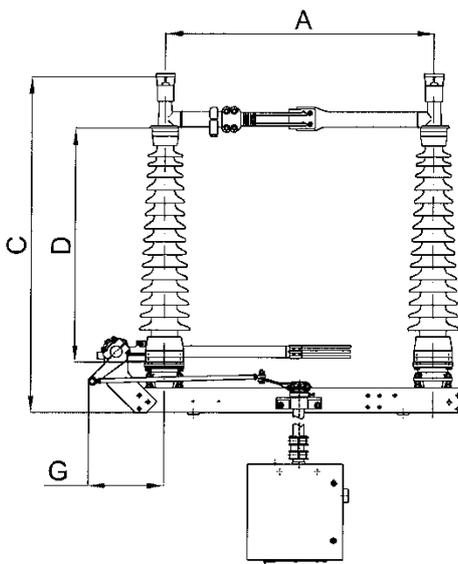
Disconnectors type SGF... are centre-break isolating switches designed for operation in outdoor substations

Disconnectors are used for metallic isolation of systems by creating in open position safe and visible isolating distance.

They can be installed in horizontal or vertical position (on the wall). They are available for rated voltages from 72.5 to 550 kV and for rated currents up to 4000 A.

The disconnectors are designed according to the publication IEC 62271-102; IEC 62271-1 and most other national regulations.

ANSI specifications can be met on request.



Dimension	kV	72.5	123	145	170	245	300	363	420	550	
<i>Build on earthing switch type:</i>			TEC	TEC	TEC	TEC	TEC	TEC	TEB	TEB	
A	Support insulator distance	mm	1000	1400	1650	1830	2620	2620	3200	3800	4200
B	Base frame length	mm	1200	1700	1950	2130	2920	2920	3500	4100	4500
C	Disconnector height										
	-rated current ≤ 1600 A (type n)	mm	1285	1735	2015	2255	2855	3205	x	x	x
	-rated current ≤ 2500 A (type p)	mm	1335	1785	2065	2305	2905	3255	3510	4010	4660
	-rated current ≤ 3150 A (type pc)	mm	1385	1835	2115	2335	2955	3305	3560	4060	4710
	-rated current ≤ 4000 A (type q)	mm	1385	1835	2115	2335	2955	3305	3560	4060	4710
D	Height of support insulator	mm	770	1220	1500	1700	2300	2650	2900	3350	4000
E	Disconnector width (open)	mm	560	760	925	1030	1450	1450	1780	2040	2460
F	Isolating distance	mm	800	1200	1450	1630	2370	2300	2750	3385	3810
G	Length of earthing switch attachment	mm	450	450	450	450	450	450	450	1050	1050
P	Minimum distance between poles	mm									
	- parallel arrangement	mm	1270	1900	2330	2640	3570	4000	4900	5410	6200
	- series arrangement	mm	1790	2700	3150	3530	4920	5700	6350	7320	8900

Motor-operated Mechanism Type MT150

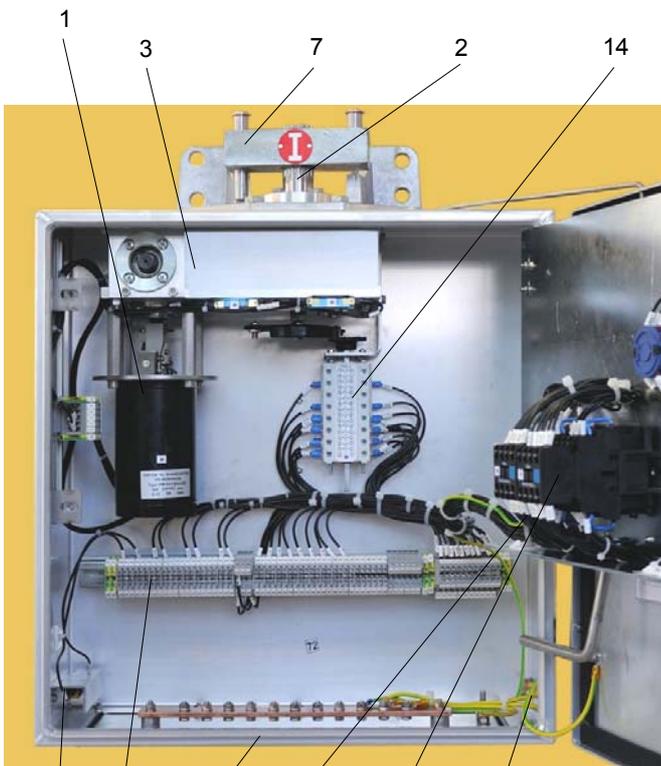
The motor-operated mechanisms type MT150 are designed for outdoor installation and used for the electrical remote operation of disconnectors and earthing switches.

The motor-operated drive mechanism can be supplied in two versions:

- type MT150 (close rotation clockwise) or
- type MT150-L (close rotation anti-clockwise).

The direction of the main shaft rotation is as seen on the top of the drive mechanism.

The mechanisms are designed according to the publication IEC 62271-102; IEC 62271-1 and most other national regulations.



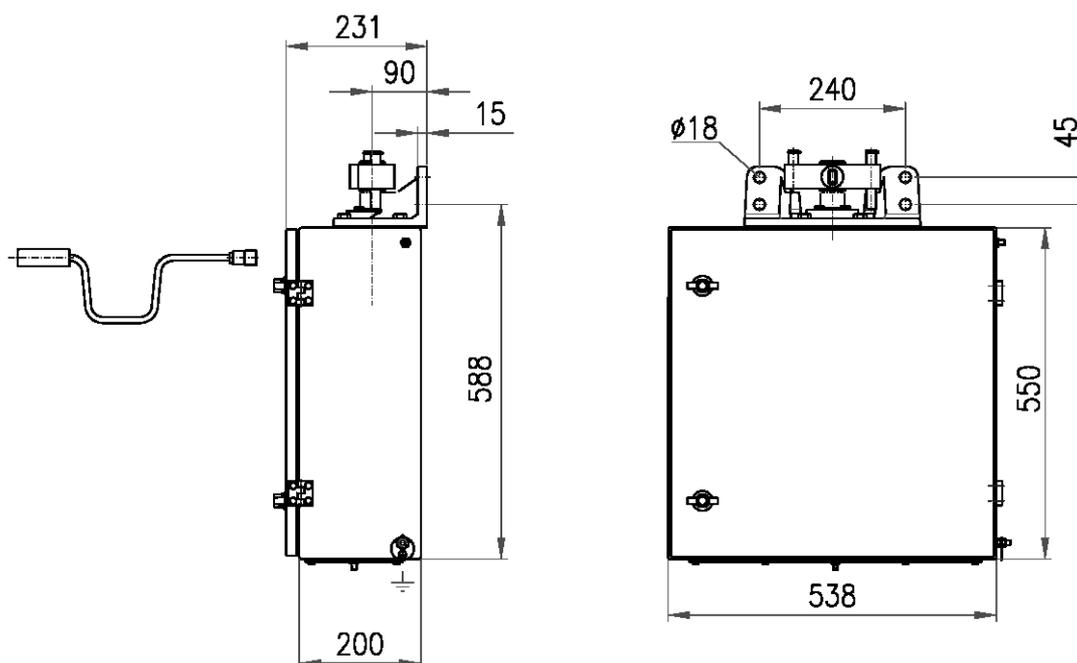
Inside view – control panel opened



Control panel – housing door opened

- 1 Motor
- 2 Main shaft
- 3 Gear box
- 4 Locking device
- 5 Terminal strip
- 6 Stop pin
- 7 Coupling
- 8 Main grounding point (not visible here)
- 9 Cable gland plate
- 10 Contactors
- 11 Handle for manual operation
- 12 Motor - Manual selector switch
- 13 Heater
- 14 Auxiliary switch
- 15 Overload protection
- 16 Open - Close pushbutton
- 17 Local - Remote selector switch
- 18 Housing
- 19 Door

Main dimensions:



Technical data of motor operated mechanism type MT 150

Rated Voltage	110 / 125V DC	220 / 250V DC	230 / 400V 50 / 60 Hz
In-rush current	6,3A	3,2A	1,3 / 0,7A cosφ: 0,74
Rated current	4,2A	2,4A	0,9 / 0,5A cosφ: 0,74
Max. current	7A / 30s	3,5A / 30s	2 / 1,1A / 30s
Angle of operation	190°	190°	190°
Operation time	6-10s	6-10s	6-10s
Rated torque	700 Nm	700 Nm	700 Nm
Maximum torque	1000 Nm	1000 Nm	1000 Nm
Heating Element	26W – 240V AC	26W – 240V AC	26W – 240V AC
Degree of protection	IP 54	IP 54	IP 54
Maximal cross-section of supply leads : - solid - stranded (with end sleeve)	4 mm ² 2,5 mm ²	4 mm ² 2,5 mm ²	4 mm ² 2,5 mm ²
Weight (max.)	50 kg	50 kg	50 kg

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