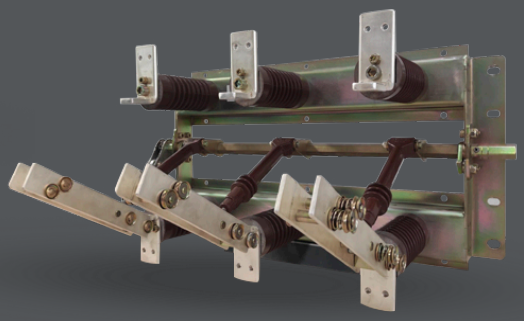
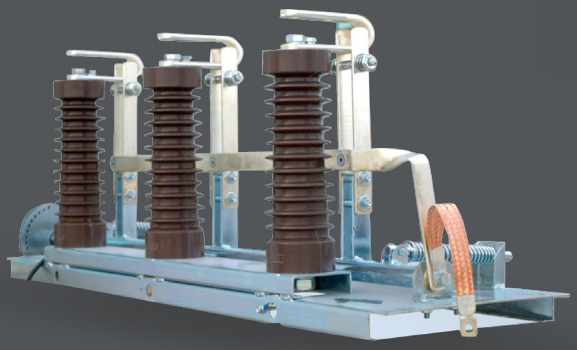
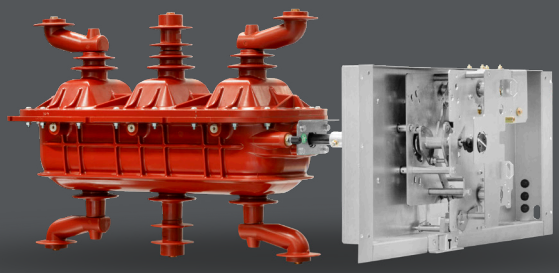
Switching Equipments







SRS, SDS, SES

12 kV | 24 kV | 36 kV | 40.5 kV | 46 kV

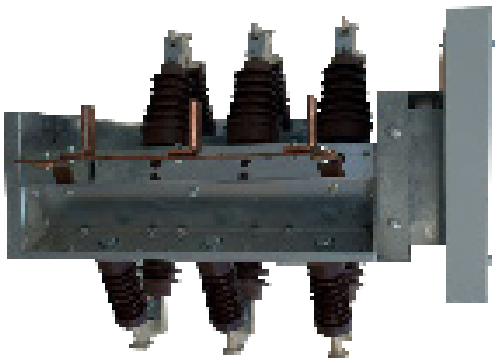
aktif
ELEKTROTEKNİK

Rotary Disconnectors
SRS Type

The disconnecting operation can be done safety without required any other switching equipment in case of on-load switching operation is not necessary. SRS Type rotary disconnectors are designed and manufactured according to IEC Standard.

SRS Type disconnectors can be used together with circuit breakers or contactors in case of on-load switching operation is necessary.

The disconnectors are manufactured as 3 poles and 2 positions and can be used as 3 poles and 3 positions together with SES Type Earthing Switches.



Standartlards

- IEC 62271-102

Application Areas

- Medium Voltage Switchgear

Advantages

- Disconnector position indicators are available at the operation mechanism
- SRS Rotary Disconnector Positions can be observed easily thanks to air insulation type
- In case of a fault in the poles, the relevant pole contacts can be changed easily and quickly and normal operation can be continued
- Enough free space in the frame capacitive to install voltage indicators
- Auxiliary contact can be optionally install in case of needs
- In case of a fault in the poles, the relevant pole contacts can be changed easily and quickly and normal operation can be continued
- SRS Type Rotary Disconnectors provides mechanical interlock between switchgear doors and disconnectors to protect non proper operation

Technical Specifications

Product Type	Ur* (kV)	Ir (A)	Ik (kA)	tk	Ud (kV)	Up (kV)	Ip (kA)
SRS-12/630-1601	12	630	16	1 s	28	75	40
SRS-12/630-2001			20				50
SRS-12/630-2501			25				63
SRS-12/1250-1601		1250	16				40
SRS-12/1250-2001			20				50
SRS-12/1250-2501			25				63
SRS-36/630-1601	36	630	16		70	170	40
SRS-36/630-2001			20				50
SRS-36/630-2501			25				63
SRS-36/1250-1601			16				40
SRS-36/1250-2001			20				50
SRS-36/1250-2501			25				63

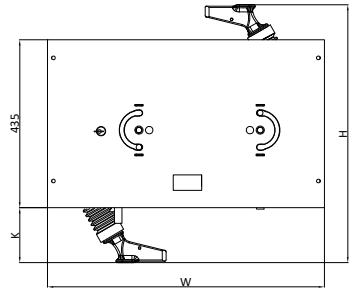
Dimensions

Product Type	Ur (kV)	Ik (kA)	Ud (kV)	Up (kV)	Ip (kA)	L (mm)	H (mm)	W (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	I (mm)	J (mm)	K (mm)
SRS-12/630-1601	12	16	28	12	40	862	700	742	200	200	195	110	645	713	725	220	345	159
SRS-12/630-2001		20			50	862	700	742	200	200	195	110	645	713	725	220	345	159
SRS-12/630-2501		25			63	862	700	742	200	200	195	110	645	713	725	220	345	159
SRS-12/1250-1601		31,5			80	862	700	742	200	200	195	110	645	713	725	220	345	159
SRS-12/1250-2001		40			100	862	700	742	200	200	195	110	645	713	725	220	345	159
SRS-12/1250-2501		50 (1sn)			125	862	700	742	200	200	195	110	645	713	725	220	345	159
SRS-36/630-1601	36	16	72	36	40	1462	890	992	350	350	345	110	1245	908	960	320	445	259
SRS-36/630-2001		20			50	1462	890	992	350	350	345	110	1245	908	960	320	445	259
SRS-36/630-2501		25			63	1462	890	992	350	350	345	110	1245	908	960	320	445	259
SRS-36/1250-1601		31,5			80	1462	890	992	350	350	345	110	1245	908	960	320	445	259
SRS-36/1250-2001		40 (1sn)			100	1462	890	992	350	350	345	110	1245	908	960	320	445	259
SRS-36/1250-2501		50 (1sn)			125	1462	890	992	350	350	345	110	1245	908	960	320	445	259

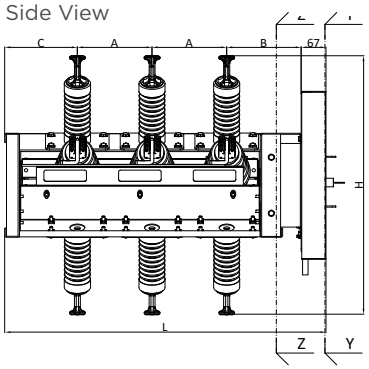
Ur : Rated voltage
Ir : Rated Current
Ik : Rated short time current
tk : Rated duration of short time circuit

Ud : Rated power frequency withstand voltage
Up : Rated impulse withstand voltage
Ip : Rated peak withstand current

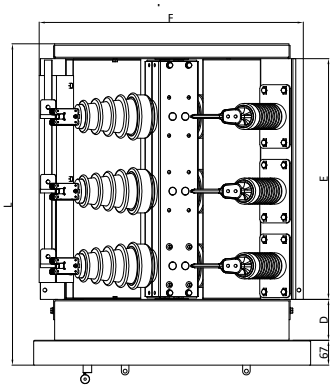
Front View



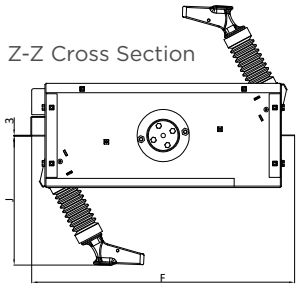
Side View



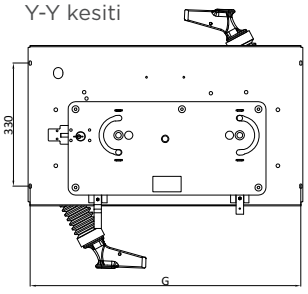
Top View

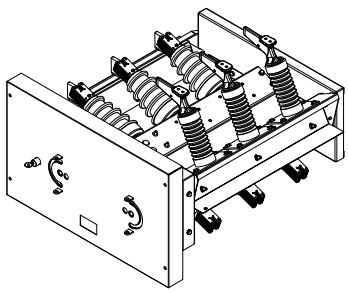


Z-Z Cross Section



Y-Y Cross Section
Y-Y kesiti

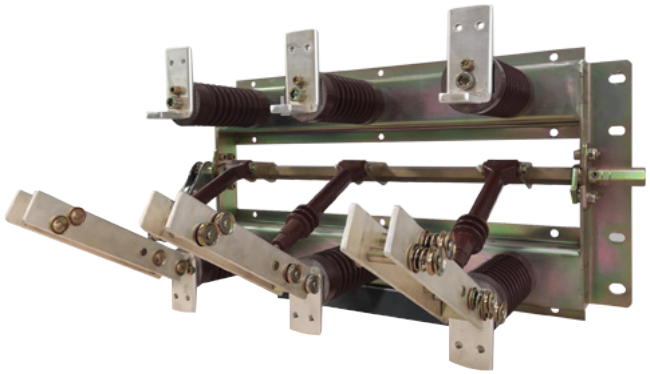




Disconnector Switch
SDS Type

SDS series Air Insulated Disconnector Switches are designed and manufactured up to 36 kV, 2500 A, 31.5 kA/3 sec electrical specifications. SRS Type Disconnectors can seperate circuit safely without any other switching equipments.

SDS Type disconnectors are manufactured as 3 poles and 2 positions and can be used as 3 poles and 3 positions together with SES Type Earthing Switches.



Standards

- IEC 62271-102

Application Areas

- Medium Voltage Switchgear

Advantages

- Enough free space in the frame capacitive to install voltage indicators
- Auxiliary contact can be optionally install in case of needs
- Auxiliary contact can be optionally install in case of needs
- It can be easily integrated with earthing switches and provided optimum mechanical operation
- Disconnector Positions can be observed easily thanks to air insulation type
- The contacts and contact switches are made of drawn electrolytic copper and are silver plated
- Compression springs are stainless and maintain the necessary contact force of the entire mechanics throughout their lifetime
- Easy operation thanks to maneuver arm

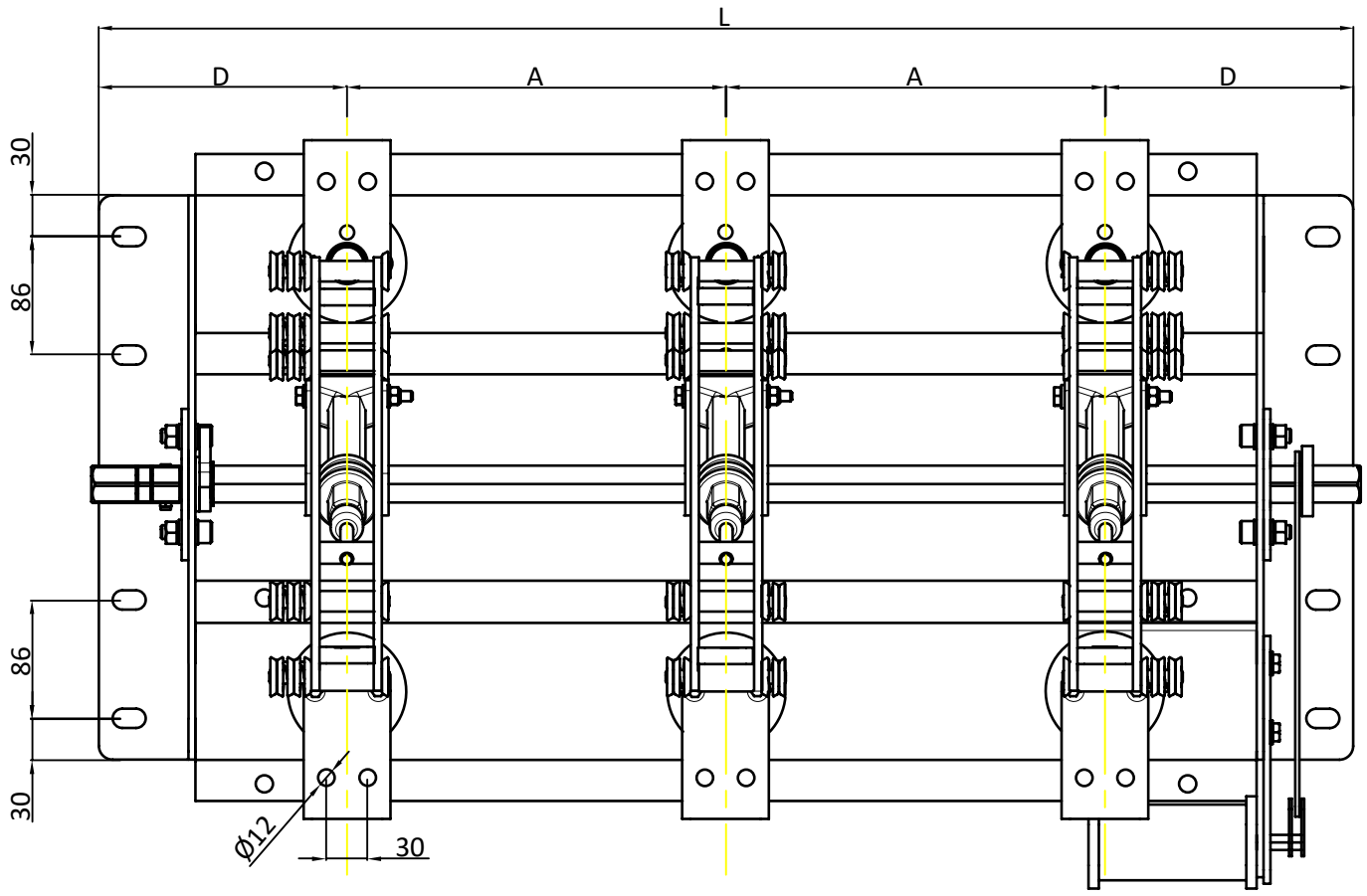
Technical Specifications

Product Type	Ur (kV)	Ik (A)	Ud	Up (kV)	Ip (kA)
SDS-12/0630-1601	12	630	28	75	40
SDS-12/0630-2001					50
SDS-12/1250-2501		1250			63
SDS-12/1250-3101					80
SDS-24/0630-1601	24	630	50	12	40
SDS-24/0630-2001					50
SDS-24/1250-2501		1250			63
SDS-24/1250-3101					80
SDS-36/0630-1601	36	630	70	170	40
SDS-36/0630-2001					50
SDS-36/1250-2501		1250			63
SDS-36/1250-3101					80

Dimesions

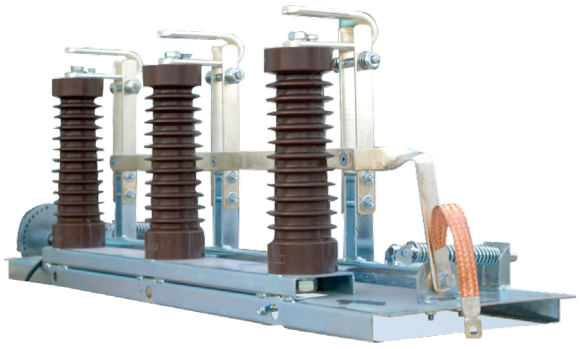
Product Type	Ur (kV)	Ik* (kA)	Ud (kV)	Up (kV)	Ip (kA)	A (mm)	B (mm)	C (mm)	D (mm)	H (mm)	L (mm)	G (mm)
SDS-12/0630-1601	12	16	28	75	40	200	250	125	85	212	700	330
SDS-12/0630-2001		20			50							
SDS-12/1250-2501		25			63							
SDS-12/1250-3101		31,5			80							
SDS-24/0630-1601	24	16	50	125	40	275	310	150	115	292	910	410
SDS-24/0630-2001		20			50							
SDS-24/1250-2501		25			63							
SDS-24/1250-3101		31,5			80							
SDS-36/0630-1601	36	16	70	170	40	350	420	180	115	382	1060	520
SDS-36/0630-2001		20			50							
SDS-36/1250-2501		25			63							
SDS-36/1250-3101		31,5			80							

* : Approximate size



Earthing Switches
SES Type

SES series Earthing Switches are used for earthing the medium voltage systems in safety. SES Type earthing switches are manufactured according to IEC 62271-102 standard and can operate with all type of disconnector mechanism.



Standards

- IEC 62271-102

Application Areas

- Medium Voltage Switchgear

Advantages

- Disconnector Positions can be observed easily thanks to air insulation type
- Enough free space in the frame capacitive to install voltage indicators
- When used with SRS Series Rotary Disconnectors, an auxiliary switch can be integrated and ground position signal can be obtained easily
- Fully compatible with other equipments in switchgear for mechanical locking
- SES series Earthing Switches are manufactured according to E2-B class with 5 times closing capacity
- SES Series Earthing Switches can work with all kinds of working mechanisms
- Auxiliary contact can be optionally install in case of needs

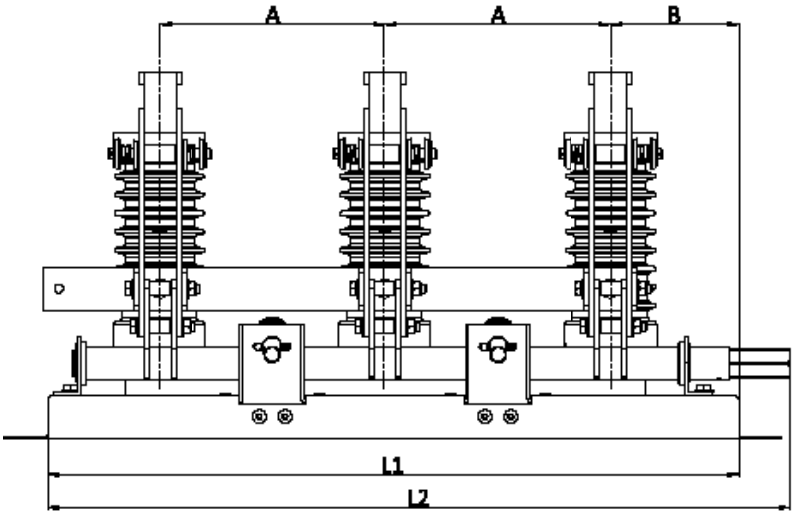
Technical Specification

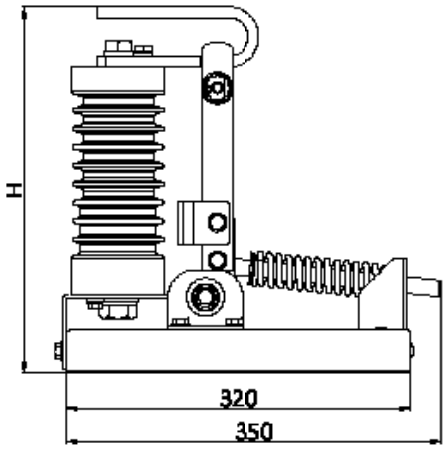
Product Type	Ur (kV)	Ik* (kA)	Ud (kV)	Up (kV)	Ip (kA)
SES-12/0000-1601	12	16	28	75	40
SES-12/0000-2001		20			50
SES-12/0000-2501		25			63
SES-12/0000-3101		31,5			80
SES-12/0000-4001		40			100
SES-12/0000-5001		50			125
SES-24/0000-1601	24	16	50	125	40
SES-24/0000-2001		20			50
SES-24/0000-2501		25			63
SES-24/0000-3101		31,5			80
SES-24/0000-4001		40			100
SES-24/0000-5001		50			125
SES-36/0000-1601	36	16	70	170	40
SES-36/0000-2001		20			50
SES-36/0000-2501		25			63
SES-36/0000-3101		31,5			80
SES-36/0000-4001		40			100
SES-36/0000-5001		50			125
SES-40/0000-1601	40,5	16	90-120	190-210	40
SES-40/0000-2001		20			50
SES-40/0000-2501		25			63
SES-40/0000-3101		31,5			80
SES-40/0000-4001		40			100
SES-40/0000-5001		50			125

Dimensions

Product Type	Ur (kV)	Ik* (kA)	Ud (kV)	Up (kV)	Ip (kA)	L1 (mm)	L2 (mm)	H (mm)	A (mm)	B (mm)
SES-12/0000-1601	12	16	28	75	40	580	530	260	150/160	100
SES-12/0000-2001		20			50	580	530	260	150/160	100
SES-12/0000-2501		25			63	580	530	260	150/160	100
SES-12/0000-3101		31,5			80	580/710	530/660	260	150/160/210	100/120
SES-12/0000-4001		40			100	580/710	660/850	260	210/275	120/150
SES-12/0000-5001		50 (1sn)			125	580/710	660/850	260	210/275	120/150
SES-24/0000-1601	24	16	50	125	40	710/910	660/850	340	210/275	120/150
SES-24/0000-2001		20			50	710/910	660/850	340	210/275	120/150
SES-24/0000-2501		25			63	710/910	660/850	340	210/275	120/150
SES-24/0000-3101		31,5			80	710/910	660/850	340	210/275	120/150
SES-24/0000-4001		40			100	910	850	340	275	150
SES-24/0000-5001		50 (1sn)			125	910	850	340	275	150
SES-36/0000-1601	36	16	70	170	40	980/1170	930/1120	425	275/350	190/210
SES-36/0000-2001		20			50	980/1170	930/1120	425	275/350	190/210
SES-36/0000-2501		25			63	980/1170	930/1120	425	275/350	190/210
SES-36/0000-3101		31,5			80	980/1170	930/1120	425	275/350	190/210
SES-36/0000-4001		40 (1sn)			100	980/1170	930/1120	425	275/350	190/210
SES-36/0000-5001		50 (1sn)			125	980/1170	930/1120	425	275/350	190/210
SES-40/0000-1601	40,5	16	90-120	190-210	40	1310	1240	460	380	240
SES-40/0000-2001		20			50	1310	1240	460	380	240
SES-40/0000-2501		25			63	1310	1240	460	380	240
SES-40/0000-3101		31,5			80	1310	1240	460	380	240
SES-40/0000-4001		40 (1sn)			100	1310	1240	460	380	240
SES-40/0000-5001		50 (1sn)			125	1310	1240	460	380	240

* : Available with 3 seconds





Circuit Breakers
SCB-2 Type

Aktif SCB circuit breakers have a side mechanism structure and offer optimum solutions up to 40.5 kV, 630 A, 21 kA/3 s electrical specifications. Aktif circuit breakers are user-friendly, safe and reliable switching equipments that are suitable for use with trolleys or drawers in a metal-enclose switchgears. It has a structure that can open and close all short-circuit currents up to the rated short-circuit current. SCB circuit breakers can operate in full harmony in Aktif Brand SME Metal Enclosed Modular Switchgears.

Standards

- IEC 62271-100

Application Areas

- Medium Voltage Switchgear

Avantajlar

- Long life contact structure
- Time and cost savings thanks to quick and easy installation
- Low maintenance
- Az sayıda hareketli mekanizma
- Less moving mechanism
- Automatic spring installation thanks to motor
- Minimum arc clearance time
- Circuit breaker position indicators on the mechanism
- Fully compatible with other equipments to be used in switchgears
- Ergonomic spring adjustment system
- Maintenance free for at least 30 years with sealed pressure system

Safety

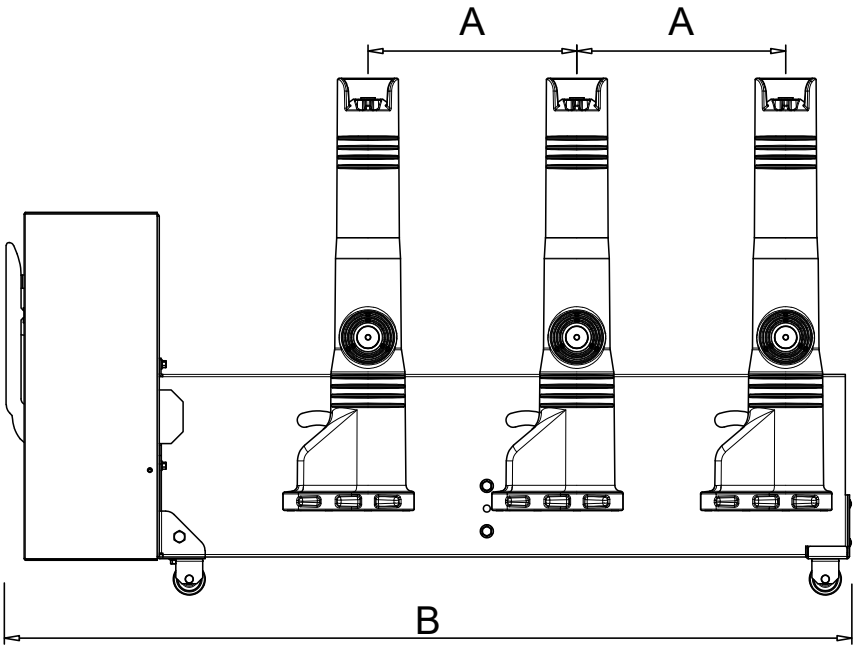
- High mechanical endurance
- Fully compatible with mechanical locking system study
- Maximum reliability thanks to its compact structure

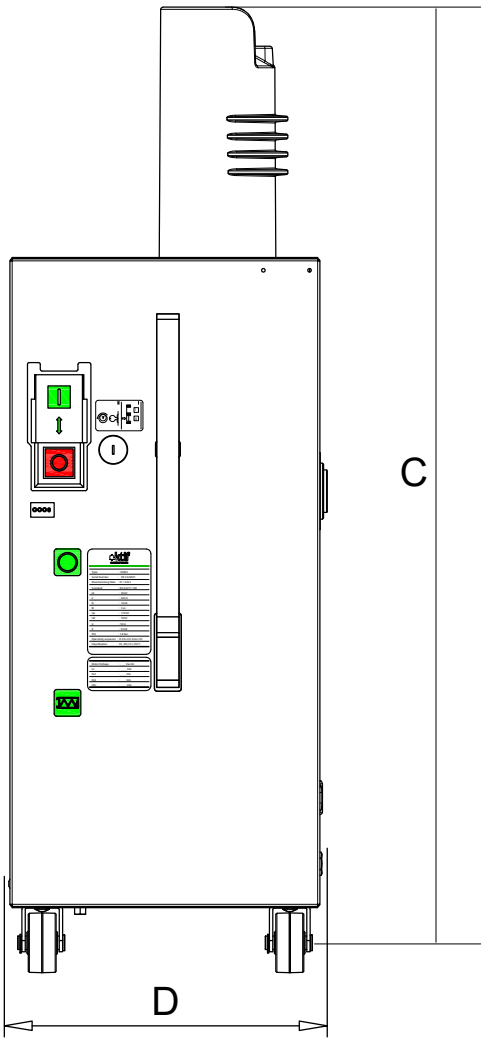
Technical Specification

Product Type	Tip	Ur (kV)	f (Hz)	Ir (kA)	Ik (kA)	tk (s)	Ud (kV)	Up (kV)	Ip (kA)	Dayanım Tipi
SCB-2-12	SF6/ Vakum	12	50/60	630	16 20	3	28	75	50	E1, M1, C2
SCB-2-24	SF6/ Vakum	24	50/60	630	16 20	3	50	125	50	E1, M1, C2
SCB-2-36	SF6	36	50/60	630	16	3	70	170	50	E2, M1, C2
SCB-2-40.5	SF6	40.5	50/60	630	21	3	95	185	50	E2, M2, C2

Dimensions

Product Type	Tip	Ur (kV)	Ik (kA)	Ud (kV)	Up (kV)	A (mm)	B (mm)	C (mm)	D (mm)
SCB-2-12	SF6/ Vacuum	12	16 20	28	75	210	900	680	300
SCB-2-36	SF6/ Vacuum	24	16 20	50	125	250	1010	680	300
SCB-2-36	SF6	36	16	70	170	350	1420	840	290
SCB-2-40.5	SF6	40.5	16	70	170	350	1420	840	290

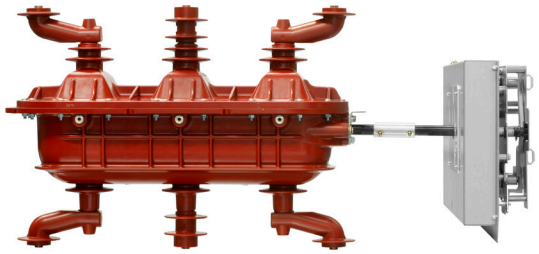

A
A
B


C
D

Disconnector Switch with SF6 Gas

SDS-2 Disconnector Switch with SF6 Gas

SDS series SF6 gas insulated disconnectors offer optimum solutions with three-position switching possibilities up to 36 kV, 630 A, 20 kA electrical specifications. SDS series disconnector switches which take up minimum space thanks to their compact structure, offer more than 30 years for operation. Aktif disconnectors which have widespread use with circuit breakers, have IP3X protection class and are manufactured in accordance with all kinds of site conditions.

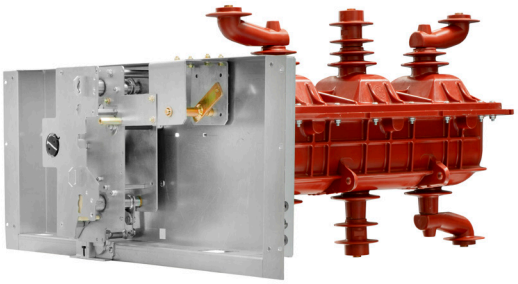


Standards

- IEC62271-103

Application Areas

- Medium Voltage Switchgears

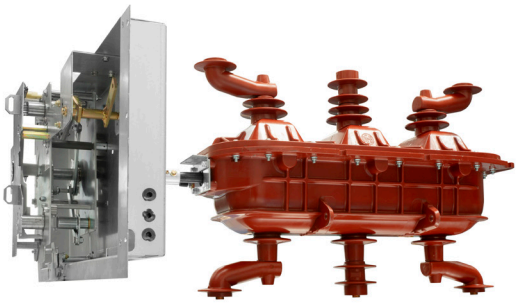


Advantages

- Thanks to its optimized compact structure takes up minimum space
- Thanks to its compact and sealed structure, it can be used for more than 30 years without maintenance
- Disconnector position is shown mechanically
- Saves time and money by offering quick and easy installation
- High performance in hard ambition conditions
- Fully compatible with other equipments in switchgears

Güvenlik

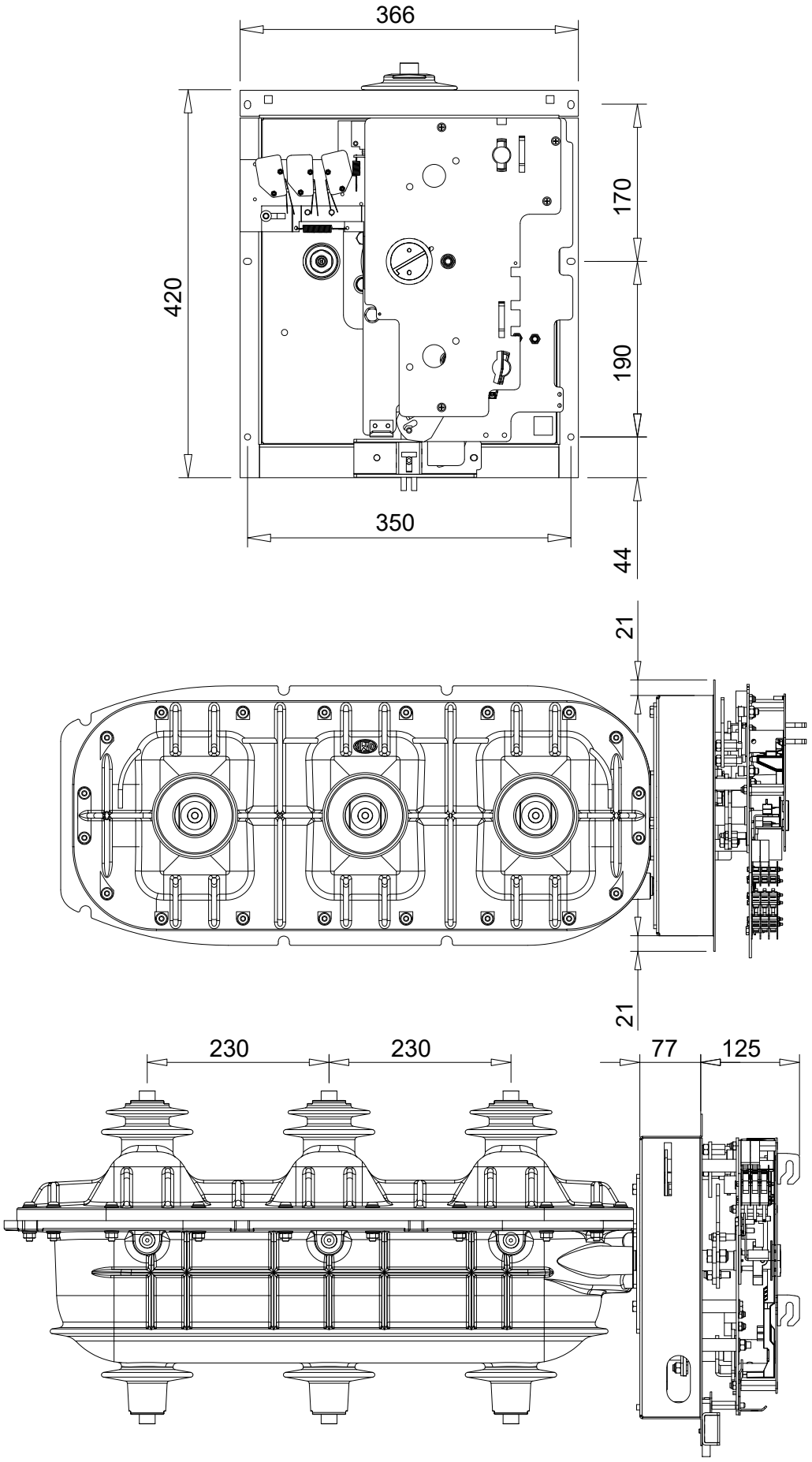
- It has a reliable design that does not allow erroneous maneuvers
- The cubicle door offers mechanical interlocking between circuit breaker, earthing switch and cable compartments
- It has a design that does not require additional isolation measures with its wide phase distance



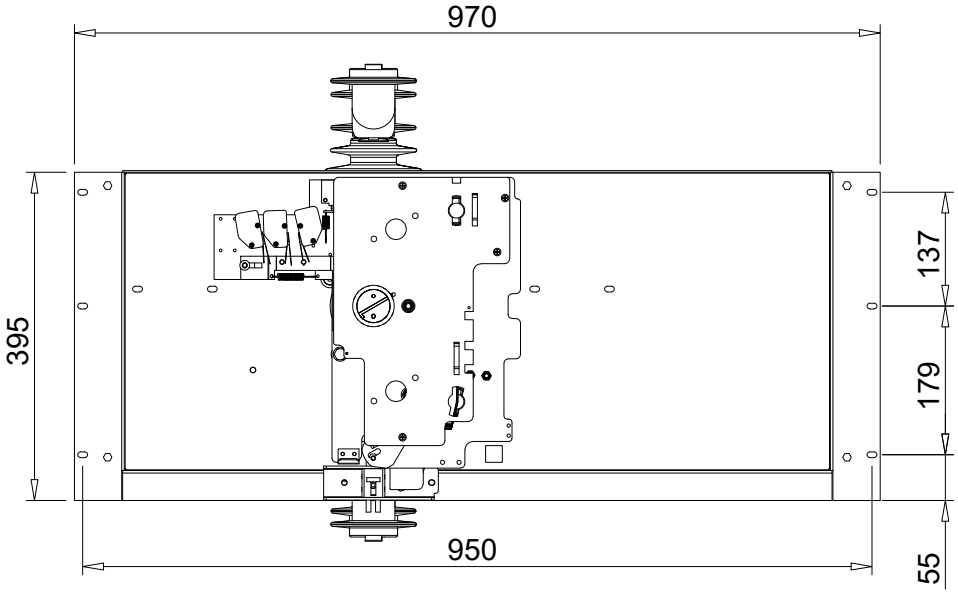
Technical Specifications

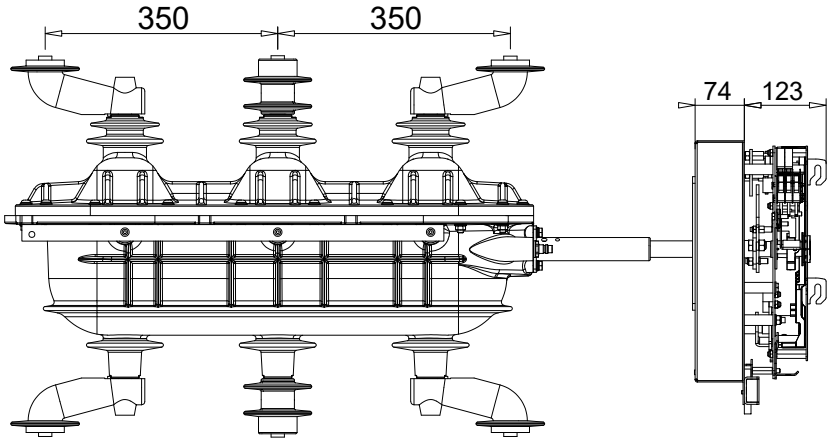
Product Type	Ur (kV)	Ir (kA)	Ik (kA) / 1s	Ud (kV)	Up (kV)	Ip (kA)	Endurance
SDS-2-12	12	630	20	60	145	52	E3, M1
SDS-2-24	24	630	20	60	145	52	E3, M1
SDS-2-36	36	630	20	80	195	52	E3, M1

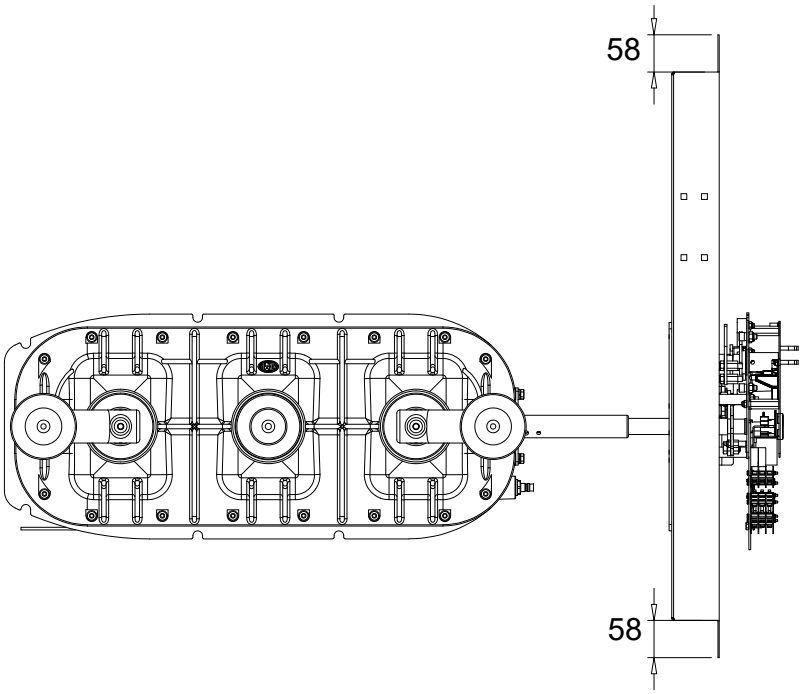
Dimensions at 12 - 24 kV Voltage Level



Dimensions at 36 kV Voltage Level

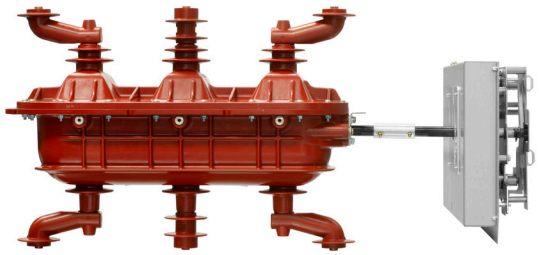






Load Break
SLB Type

SDS series SF6 gas insulated disconnectors offer optimum solutions with three-position switching possibilities up to 36 kV, 630 A, 20 kA electrical specifications. SDS series disconnector switches which take up minimum space thanks to their compact structure, offer more than 30 years for operation. Aktif disconnectors which have widespread use with circuit breakers, have IP3X protection class and are manufactured in accordance with all kinds of site conditions.

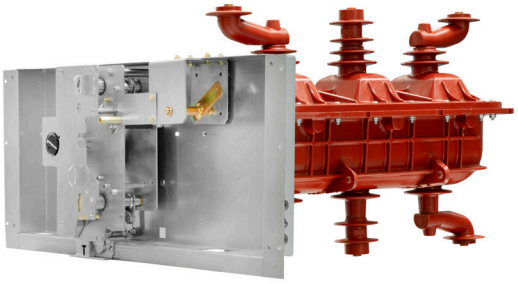


Standards

- IEC62271-103

Application Areas

- Medium Voltage Switchgears

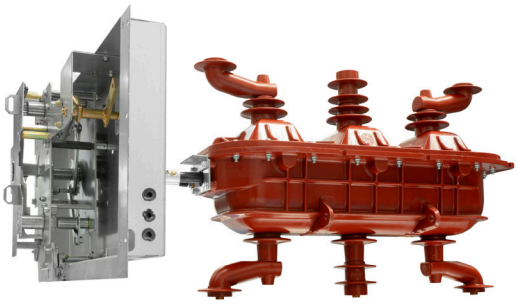


Advantages

- Thanks to its optimized compact structure takes up minimum space
- Thanks to its compact and sealed structure, it can be used for more than 30 years without maintenance
- Disconnector position is shown mechanically
- Saves time and money by offering quick and easy installation
- High performance in hard ambition conditions
- Fully compatible with other equipments in switchgears

Güvenlik

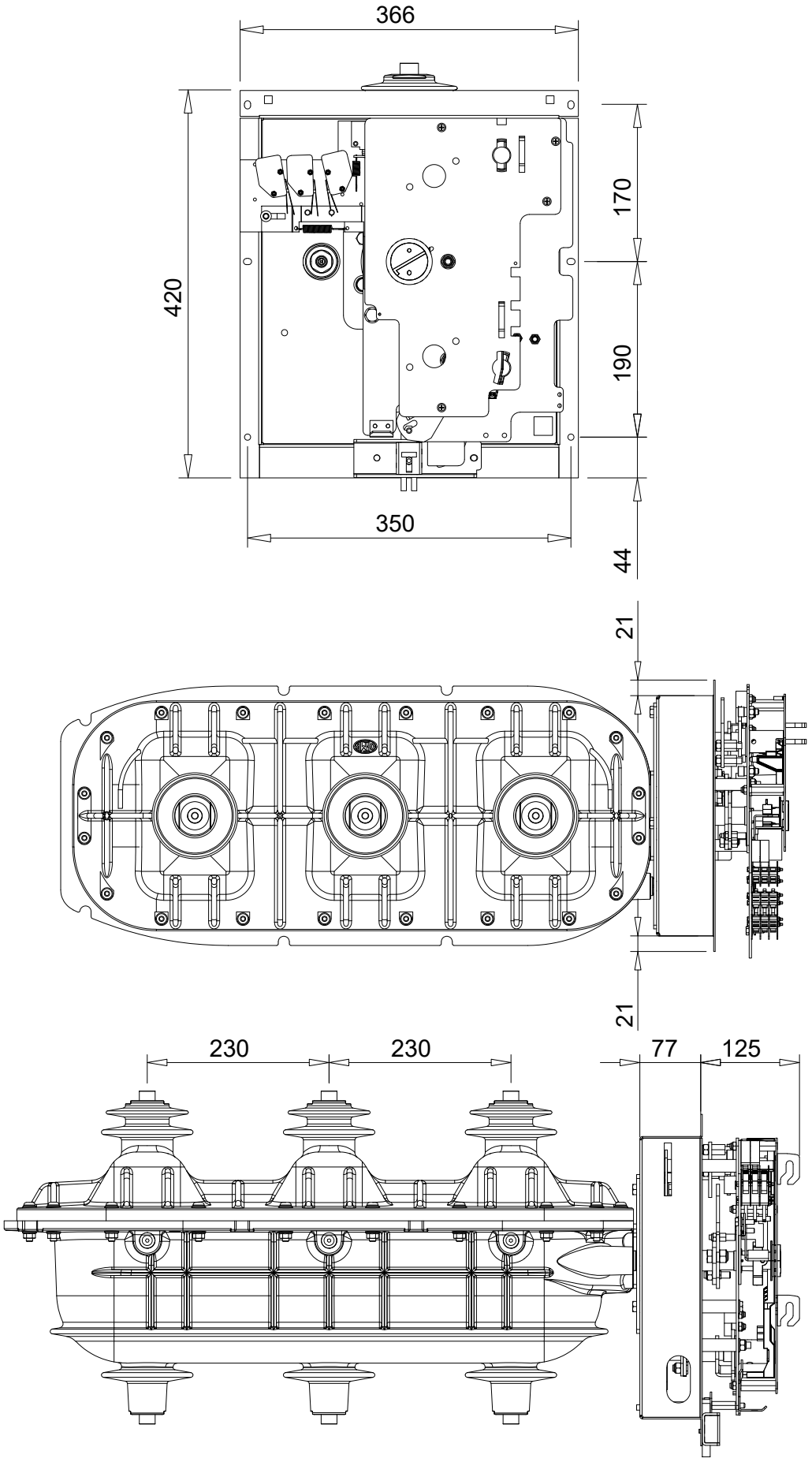
- It has a reliable design that does not allow erroneous maneuvers
- The cubicle door offers mechanical interlocking between circuit breaker, earthing switch and cable compartments
- It has a design that does not require additional isolation measures with its wide phase distance



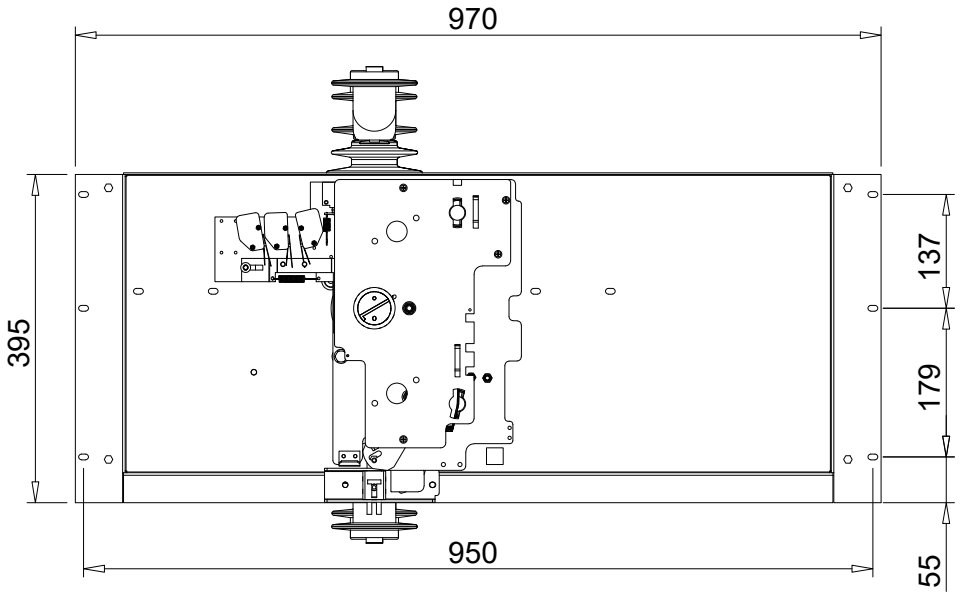
Technical Specifications

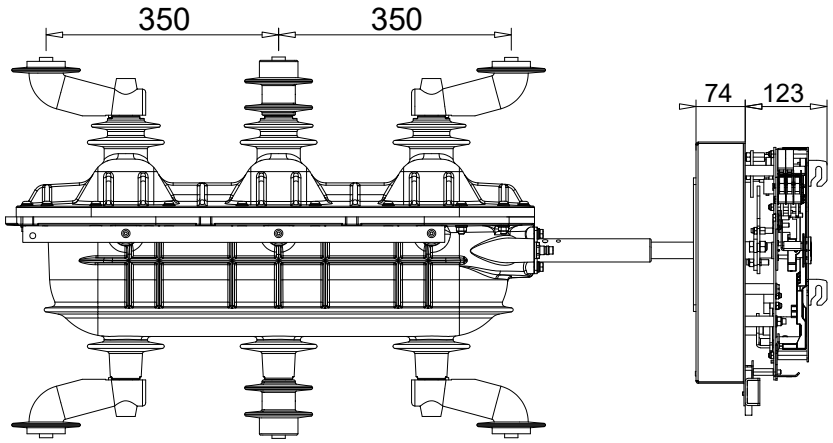
Product Type	Ur (kV)	Ir (kA)	Ik (kA) / 1s	Ud (kV)	Up (kV)	Ip (kA)	Endurance
SDS-2-12	12	630	20	60	145	52	E3, M1
SDS-2-24	24	630	20	60	145	52	E3, M1
SDS-2-36	36	630	20	80	195	52	E3, M1

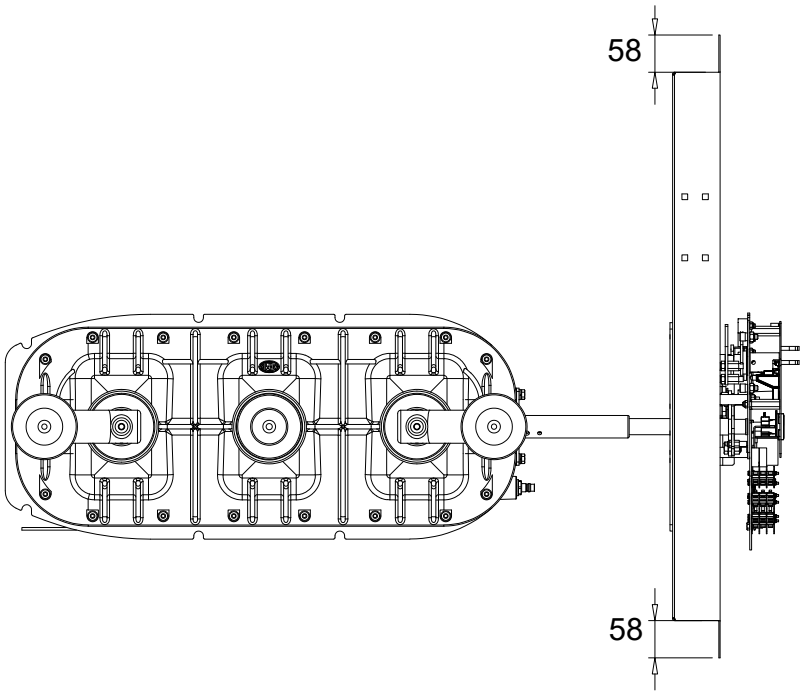
Dimensions at 12 - 24 kV Voltage Level



Dimensions at 36 kV Voltage Level







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