

CATALOG

SlimLine XR Gold

Switch disconnecter fuses



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Introduction

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Introduction

SlimLine XR Gold



Energy efficiency

Energy consumption is rising all the time and is pushing for higher energy efficiency. With the new improved SlimLine XR Gold the power losses have been lowered by up to 35.5%. Thanks to the ITS2.1 you are also able to measure, control and monitor your devices. Now the ITS2.1 is able to connect to ABB Ability™ Electrical Distribution Control System (EDCS). This enables you to check and optimize your energy consumption when and where ever.



Safety and protection

True position indication will always show if the contacts are closed or open. True position indication can be lifesaving when performing maintenance to a distribution panel.

The SlimLine XRG Gold fulfils the highest requirements for modern switch disconnector fuses with a total safety concept. The switch disconnector fuses are tested according to the IEC 60947-3 Standard with more stringent requirements for isolation, making, performance and safety.

Higher short circuit ratings than before makes your panel even more efficient and safer.



Easy to install

The use of plug-in contacts at the distribution busbars, an integrated slide support and increased cable termination area makes the installation easy and time saving.

SlimLine XR Gold can be installed in horizontal or vertical direction. The concept of these kind of switches allows more outgoing feeders per switchboard saving cubicle, floor space and costs. The SlimLine XR Gold can even be removed and replaced in a switchboard with live busbars.

Higher efficiency for more and more demanding markets

The higher efficiency was measured in tests that established the new Slimline XR Gold low-voltage switch fuse disconnectors meet the latest edition of the IEC60947-3 Standard. A 35.5 percent reduction in power losses was recorded. This efficiency gain means lower temperature rise, which translates to higher performance of the entire panel board.

Higher performance for longer life time

It is the only horizontal switch disconnector fuse with AC23A rating and is the only device where all active parts are silver-plated, with no bare copper. The greater durability means the Slimline XR Gold now has a longer working life and is suitable for more extreme conditions: the number of operations has increased by 400 percent from 1,600 to 8,000 operations and the short circuit making capacity has increased by 118 percent from 55kA to 120kA.

Installation video



Introduction

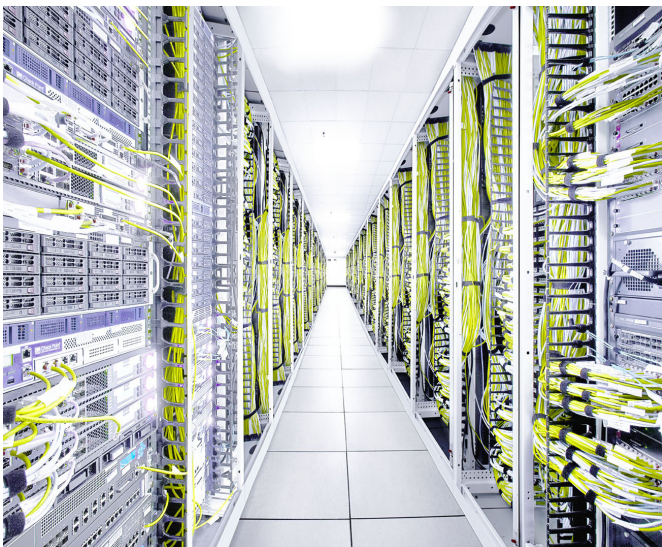
Applications and approvals

Applications:

- Distribution boards
- Building industry
- Oil and Gas industries
- Data centers
- Load Shedding
- Hospitals
- Airports
- Banks
- Shopping Centers
- In combination with Motor Control Centers
- When using emergency power supply
- Photovoltaic Power Plants

Approvals:

- IEC / EN 60947-3
- CB
- EAC
- CCC



Introduction

General product overview



	XRG00	XRG1	XRG2	XRG3
Frame size	00	1	2	3
Rated current up to (A)	160	250	400	630
For NH fuses	●	●	●	●
For BS88 fuses	●	●	●	●
Electronic fuse monitoring (EFM)	●	●	●	●
Intelligent Tier Switch ITS2.1/2.D	●	●	●	●
Auxiliary switch	●	●	●	●
Multiplug	●	●	●	●
Ammeter	●	●	●	●
Current tansformers (CT) integrated	●	●	●	●
Terminal extention for CT's integrated	●	●		
Current tansformers (CT) with contact extention	●	●	●	●
Cable shroud	●	●	●	●
V-clamp	●	●	●	●
Double clamp		●		
Contact extention	●	●	●	●
SlimLine Cassette	●	●	●	●
Double handle			●	●



Product overview

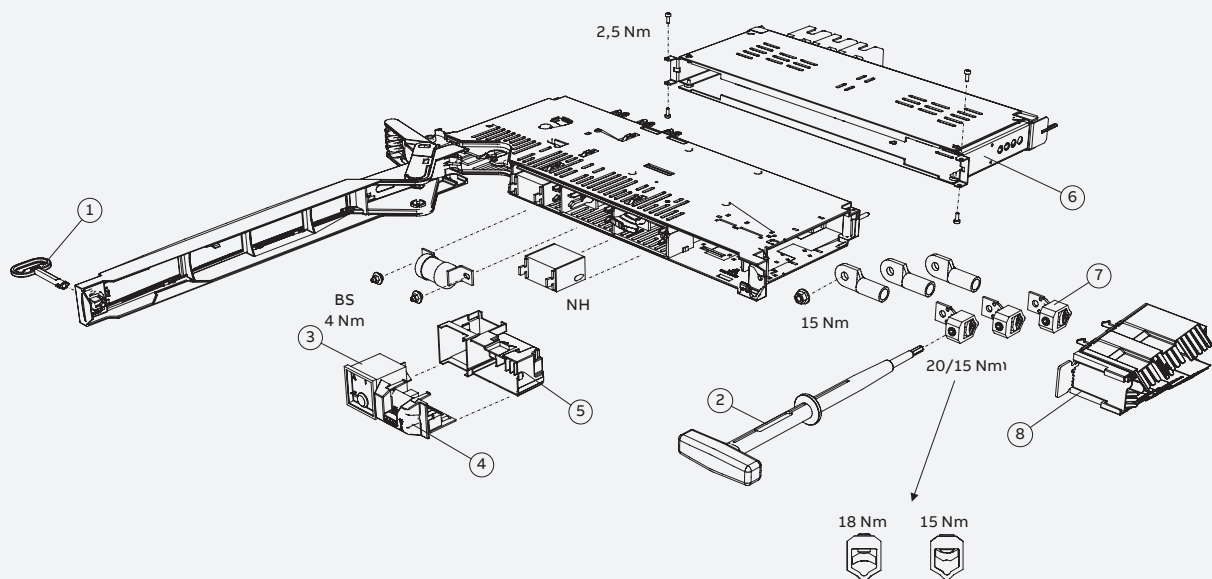
012–014	Assembly
015	Electronic Fuse Monitoring (EFM)
016–017	Intelligent Tier Switch ITS2.1 and ITS2.D
018	Motor operation (MOT)
019	Busbar Section Switch

Product overview

Assembly

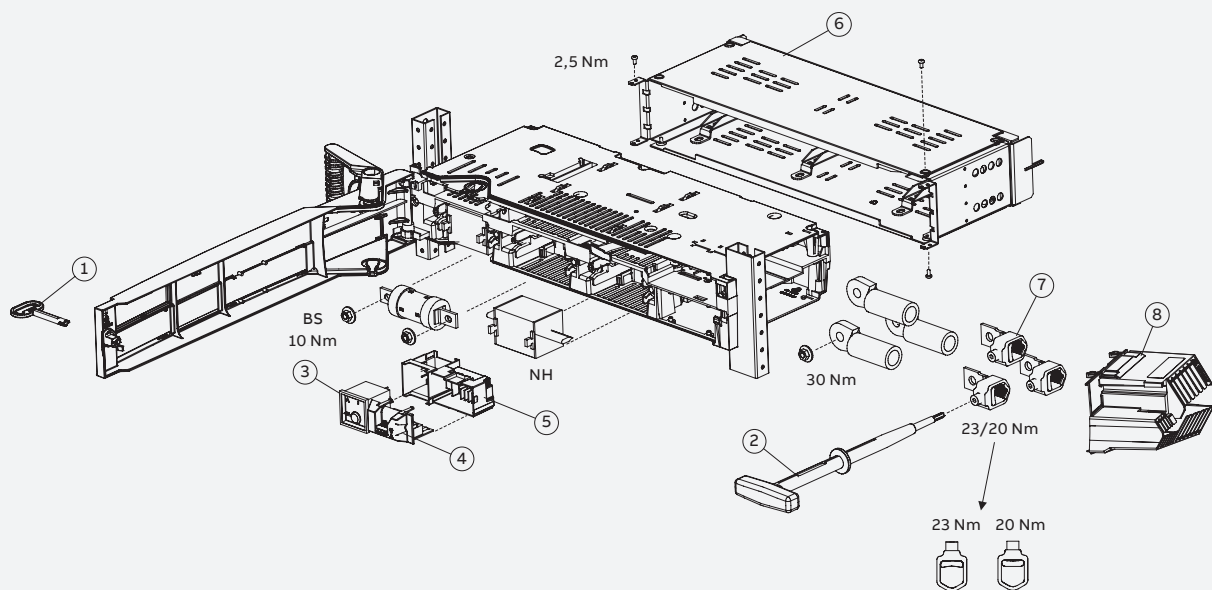
XRG00, 160 A

1. Front cover key
2. Cable terminal key
3. A-meter
4. Electronic fuse monitoring, EFM
5. A-meter bracket
6. Contact extensions
7. Cable clamp
8. Cable terminal shroud



XRG1, 250 A

1. Front cover key
2. Cable terminal key
3. A-meter
4. Electronic fuse monitoring, EFM
5. A-meter bracket
6. Contact extension
7. Cable clamp
8. Cable terminal shroud

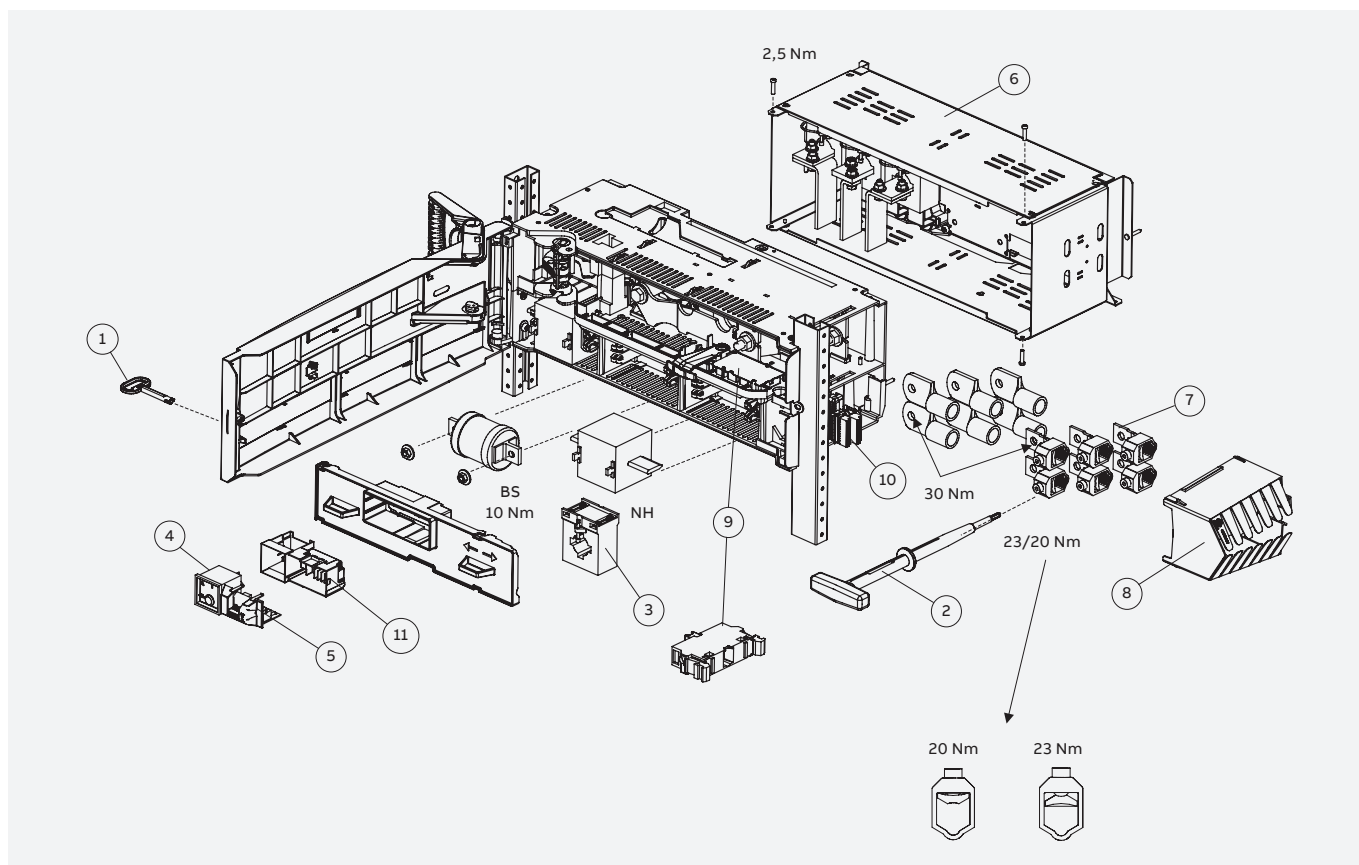


Product overview

Assembly

XRG2/3, 400-630 A

1. Front cover key
2. Cable terminal key
4. A-meter
5. Electronic fuse monitoring, EFM
6. Contact extensions
7. Double cable clamp
8. Cable terminal shroud
9. Auxiliary switch
10. Multi plugs
11. A-meter bracket



Product overview

Electronic Fuse Monitoring (EFM)

The New EFM is not only smaller and easier to install, but it is now also available up to 800V AC. The SlimLine XR Gold EFM gives an alarm at any fault conditions if a fuse is blown.

An internal potential free relay (1NC+1NO) will trip to transfer a signal for a remote fuse blown alarm. The EFM unit is self supplied, which means no additional power supply is required.

Fuse status			Relay contacts		Relay contacts	
	Green LED	Red LED	NO contact 11,12		NC contact 13,12	
			Open	Closed	Open	Closed
1. XRG in ON position						
Fuses OK	★	●	X			X
Fuses BLOWN	●	★		X	X	
2. XRG in OFF position						
Fuses OK	●	●	X			X
Fuses BLOWN	●	●	X			X



Diagram XRG AC EFM

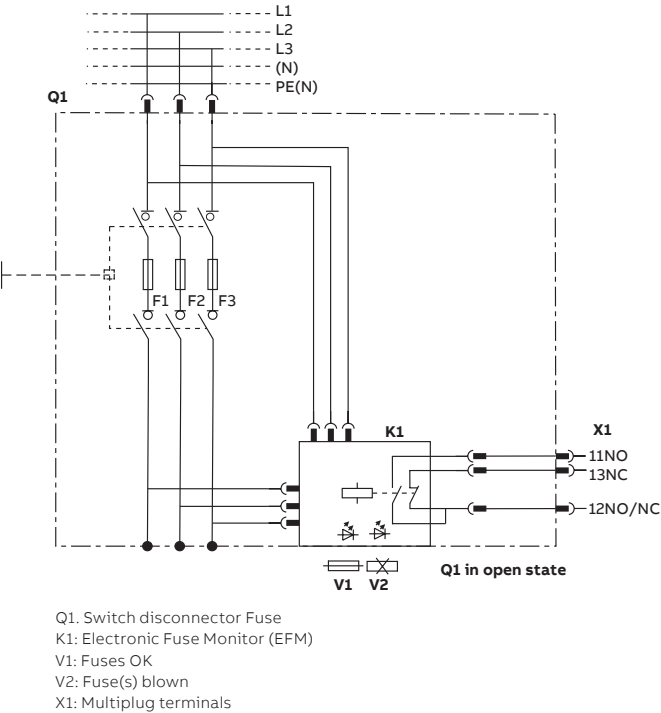
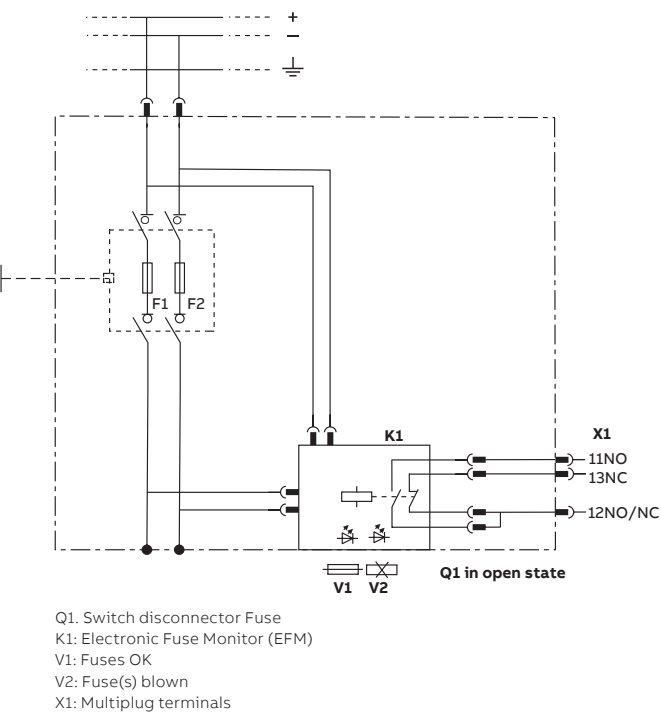


Diagram XRG DC EFM



Product overview

Intelligent Tier Switch ITS2.1 and ITS2.D

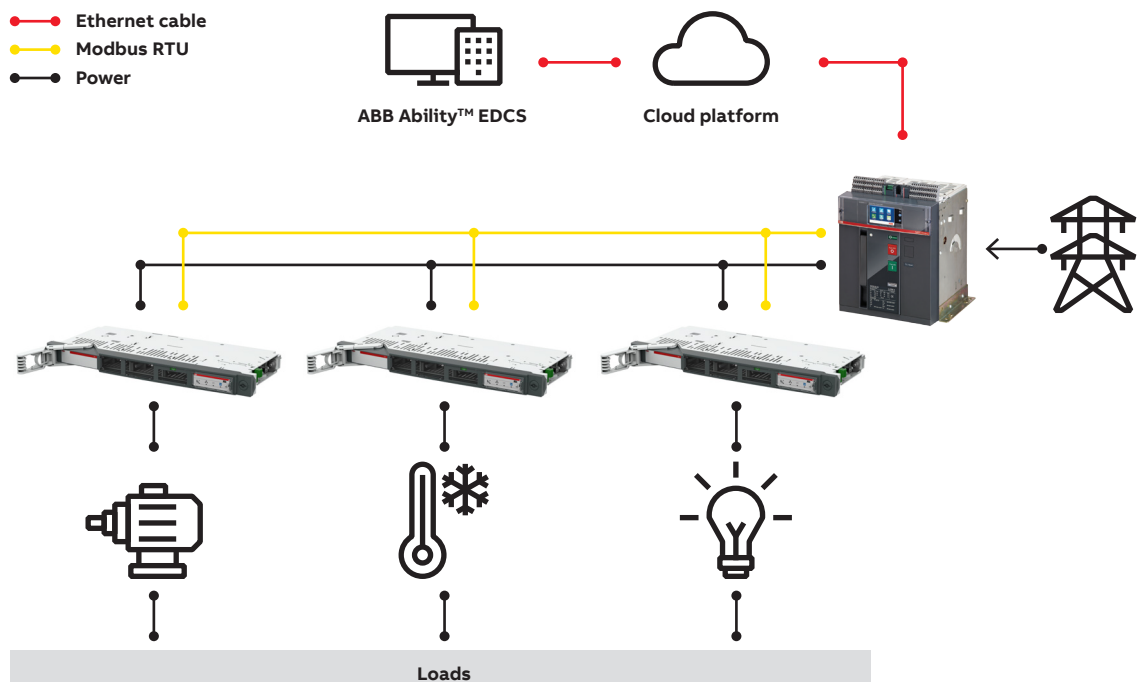
ITS2.1 is an integrated device to the SlimLine XR Gold, which enables you to monitor, analyze and control your energy consumption in modern commercial and industrial buildings.

ITS2.1 is now entering in a new digital phase where all data can be monitored and visualized from remote thanks to its integration with cloud-based ABB Ability™ Electrical Distribution Control System (EDCS). With such new feature ABB will drive and support the digital transformation of commercial and industrial buildings by making smarter asset and energy management simpler.

The cloud configuration will be done with Ekip Connect 3 Suite, our user-friendly tool which has been in use also for other ABB series, like ACBs, MCCBs and TruOne, thus making the ecosystem harmonized at all level.

The ABB Ability™ Electrical Distribution Control System (EDCS) shows you all the devices in your plant that are connect to it. You can easily monitor remotely the energy consumption.

As simple as that could be, an example of a simple architecture involves the ITS2.1 communication with the main incomer LV circuit breaker Emax 2 using Modbus RTU protocol. Emax 2 enables direct communication to ABB Ability™ Electrical Distribution Control System (EDCS) by using Ekip Com Hub cartridge module. It is important to note that SlimLine XR Gold must be equipped with ITS2.1 to enable such advanced functionality as described in the architecture below.



SlimLine XR Gold ITS2.1: which data can be monitored

Features		
Line Voltage	(V AC)	V12, V23, V31
Phase Voltage	(V AC)	V1N, V2N, V3N
Current	(A)	L1, L2, L3
Active power	(kW)	L1, L2, L3
Reactive power	(kVA)	L1, L2, L3
Cos phi	(Cosφ)	L1, L2, L3
Power factor	(PF)	Sum
Energy	(kWh)	Sum
Fuse status	(EFM)	L1, L2, L3
Temperature	(°C)	Terminal L2
Switch position		On/Off
Motor Control		by bus
Communication bus		RS485
Protocol		Modbus RTU

Configurable Modbus RTU parameters

Default setting	19200 E,8,1 – Default Modbus addr. 3
Baudrates	9600, 19200
Parity, stop- start bits	E,8,1 – O,8,1 – N,8,2 – N,8,1
Modbus address range	1 – 247

Connection data at the ITS2.1/2.D multiplug

1	24 VDC
2	24 V GND (0V)
3	RS-485 0V
4	RS-485 + (A)
5	RS-485 - (B)

Conductor cross section

Stranded min.	0,25 mm ²
Stranded max.	1,5 mm ²
Stranded, with ferrule without plastic sleeve max.	1,5 mm ²
Stranded, with ferrule with plastic sleeve max.	0,75 mm ²

Product overview

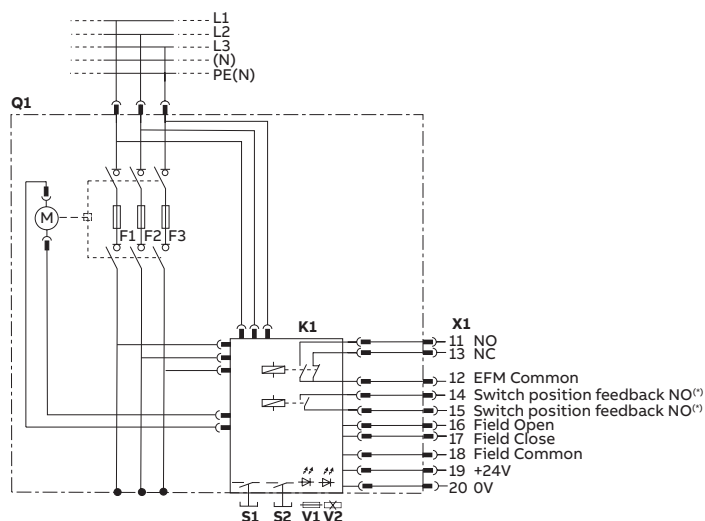
Motor operation (MOT)

SlimLine XR Gold offers an integrated motor for remote and local operation. The motor operation unit is 100% integrated without any changes of external dimensions. The front operated ON/OFF buttons are shrouded by a transparent cover with padlocking facility.

With the new improved Utilization category AC23A, SlimLine XR Gold enables up to 8000 operations. This is a perfect solution for load shedding. Load shedding is possible with only MOT or with MOT+ ITS2.1.



EFM + MOT New multi plug P



Q1: Switch disconnecter Fuse
 K1: Electronic Fuse Monitor (EFM)
 V1: Fuses OK
 V2: Fuse(s) fail(ed)
 X1: Multiplug terminals
 S1: Close
 S2: Open

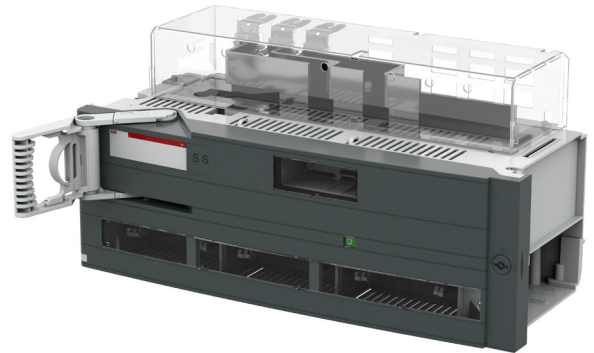
^(*) Contact follow main contact. Will go to NO at loss OF+24V for indication purposes only

Product overview

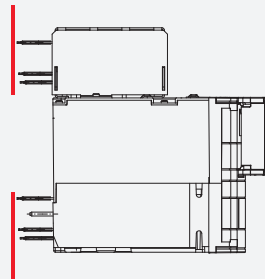
Busbar Section Switch

XR-SS/SP

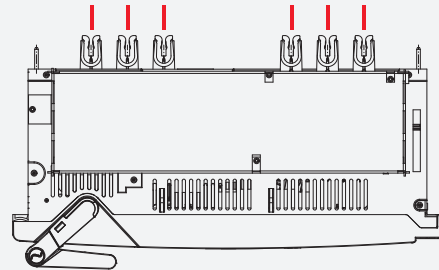
XR-SS/SP switch disconnecter fuse can sectionalize two parallel (SP) or serial (SS) busbar systems. It can be used with DIN fuse size 3. The XR-SS/SP has and Utilization Category AC23B, 690V, 630A. This product includes two ventilated blind covers, that will be mounted to the enclosure.



SlimLine XR Gold is available for the following busbar phase distances
50 mm distance between phases, 5 mm busbar

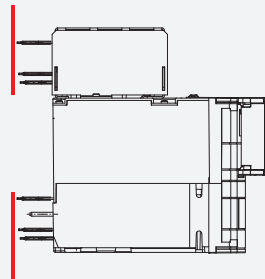


XRM - SS



XR - SP

185 mm distance between phases, 10 mm busbar



XRM - SS



Ordering information

Main devices

022–023	50 mm busbar distance
024–025	185 mm busbar distance
026	50 mm busbar distance (BS)
027	185 mm busbar distance (BS)

Accessories

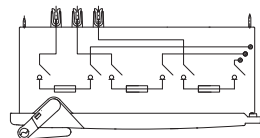
028	Auxiliary switches
029	Multiplug, ammeter and EFM bracket
030–031	Current metering
032–033	Cable termination and cable shrouds
034	Contact extensions
035	Common accessories
036–037	SlimLine cassettes and IP busbar covers
038	Spare parts and front covers

Ordering information

50 mm busbar distance
and busbar thickness 5 mm

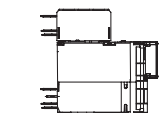
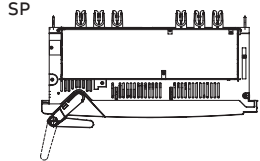
SlimLine XRG Switch Disconnecter Fuse - 50 mm busbar distance - 5 mm busbar thickness

	Rated operational current [A]	Fuse size	Number of poles	Type	Order code	Weight (Kg)
	160	NH000, NH00	3	XRG00-50/5-3P	1SEP204480R1500	3,81
	160	NH000, NH00	3	XRG00-50/5-3P-EFM	1SEP204480R1501	4,03
	160	NH000, NH00	3	XRG00-50/5-3P-MOT	1SEP204480R1502	4,26
	160	NH000, NH00	3	XRG00-50/5-3P-MOT-EFM	1SEP204480R1503	4,48
	160	NH000, NH00	3	XRG00-50/5-3P-ITS2.1	1SEP204480R1516	4,33
	160	NH000, NH00	3	XRG00-50/5-3P-ITS2.1-MOT	1SEP204480R1517	4,78
	160	NH000, NH00	3	XRG00-50/5-3P-ITS2.D	1SEP204480R1518	4,33
	160	NH000, NH00	3	XRG00-50/5-3P-ITS2.D-MOT	1SEP204480R1519	4,78
	250	NH1	3	XRG1-50/5-3P	1SEP204481R1500	6,79
	250	NH1	3	XRG1-50/5-3P-EFM	1SEP204481R1501	7,01
	250	NH1	3	XRG1-50/5-3P-MOT	1SEP204481R1502	7,27
	250	NH1	3	XRG1-50/5-3P-MOT-EFM	1SEP204481R1503	7,49
	250	NH1	3	XRG1-50/5-3P-ITS2.1	1SEP204481R1516	7,45
	250	NH1	3	XRG1-50/5-3P-ITS2.1-MOT	1SEP204481R1517	7,93
	250	NH1	3	XRG1-50/5-3P-ITS2.D	1SEP204481R1518	7,45
	250	NH1	3	XRG1-50/5-3P-ITS2.D-MOT	1SEP204481R1519	7,93
	400	NH2	3	XRG2-50/5-3P	1SEP204482R1500	15,39
	400	NH2	3	XRG2-50/5-3P-EFM	1SEP204482R1501	15,71
	400	NH2	3	XRG2-50/5-3P-MOT	1SEP204482R1502	16,11
	400	NH2	3	XRG2-50/5-3P-MOT-EFM	1SEP204482R1503	16,43
	400	NH2	3	XRG2-50/5-3P-ITS2.1	1SEP204482R1516	16,76
	400	NH2	3	XRG2-50/5-3P-ITS2.1-MOT	1SEP204482R1517	17,48
	400	NH2	3	XRG2-50/5-3P-ITS2.D	1SEP204482R1518	16,76
	400	NH2	3	XRG2-50/5-3P-ITS2.D-MOT	1SEP204482R1519	17,48
	630	NH3	3	XRG3-50/5-3P	1SEP204483R1500	15,51
	630	NH3	3	XRG3-50/5-3P-EFM	1SEP204483R1501	15,83
	630	NH3	3	XRG3-50/5-3P-MOT	1SEP204483R1502	16,23
	630	NH3	3	XRG3-50/5-3P-MOT-EFM	1SEP204483R1503	16,55
	630	NH3	3	XRG3-50/5-3P-ITS2.1	1SEP204483R1516	17,15
	630	NH3	3	XRG3-50/5-3P-ITS2.1-MOT	1SEP204483R1517	17,87
	630	NH3	3	XRG3-50/5-3P-ITS2.D	1SEP204483R1518	17,15
	630	NH3	3	XRG3-50/5-3P-ITS2.D-MOT	1SEP204483R1519	17,87

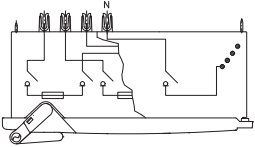


SlimLine XRG Busbar Section Switch - 50 mm busbar distance - 5 mm busbar thickness

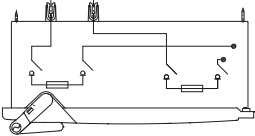
	Rated operational current [A]	Fuse size	Number of poles	Type	Order code	Weight (Kg)
SP	630	NH3	3	XRG3-50/5-3P-SP	1SEP204483R1560	17,19
SS	630	NH3	3	XRG3-50/5-3P-SS	1SEP204483R1570	16,82



SlimLine XRG Switch Disconnecter Fuse - 50 mm busbar distance - 5 mm busbar thickness

	Rated operational current [A]	Fuse size	Number of poles	Type	Order code	Weight (Kg)
	160	NH000, NH00	4	XRG00-50/5-4P	1SEP204480R1700	5,43
	160	NH000, NH00	4	XRG00-50/5-4P-EFM	1SEP204480R1701	5,65
	160	NH000, NH00	4	XRG00-50/5-4P-MOT	1SEP204480R1702	5,88
	160	NH000, NH00	4	XRG00-50/5-4P-MOT-EFM	1SEP204480R1703	6,1
	160	NH000, NH00	4	XRG00-50/5-4P-ITS2.1	1SEP204480R1716	5,95
	160	NH000, NH00	4	XRG00-50/5-4P-ITS2.1-MOT	1SEP204480R1717	6,4
	160	NH000, NH00	4	XRG00-50/5-4P-ITS2.D	1SEP204480R1718	5,95
	160	NH000, NH00	4	XRG00-50/5-4P-ITS2.D-MOT	1SEP204480R1719	6,4
	250	NH1	4	XRG1-50/5-4P	1SEP204481R1700	8,5
	250	NH1	4	XRG1-50/5-4P-EFM	1SEP204481R1701	8,72
	250	NH1	4	XRG1-50/5-4P-MOT	1SEP204481R1702	8,98
	250	NH1	4	XRG1-50/5-4P-MOT-EFM	1SEP204481R1703	9,2
	250	NH1	4	XRG1-50/5-4P-ITS2.1	1SEP204481R1716	9,16
	250	NH1	4	XRG1-50/5-4P-ITS2.1-MOT	1SEP204481R1717	9,64
	250	NH1	4	XRG1-50/5-4P-ITS2.D	1SEP204481R1718	9,16
	250	NH1	4	XRG1-50/5-4P-ITS2.D-MOT	1SEP204481R1719	9,64
	400	NH2	4	XRG2-50/5-4P	1SEP204482R1700	17,63
	400	NH2	4	XRG2-50/5-4P-EFM	1SEP204482R1701	17,95
	400	NH2	4	XRG2-50/5-4P-MOT	1SEP204482R1702	18,35
	400	NH2	4	XRG2-50/5-4P-MOT-EFM	1SEP204482R1703	18,67
	400	NH2	4	XRG2-50/5-4P-ITS2.1	1SEP204482R1716	19
	400	NH2	4	XRG2-50/5-4P-ITS2.1-MOT	1SEP204482R1717	19,72
	400	NH2	4	XRG2-50/5-4P-ITS2.D	1SEP204482R1718	19
	400	NH2	4	XRG2-50/5-4P-ITS2.D-MOT	1SEP204482R1719	19,72
	630	NH3	4	XRG3-50/5-4P	1SEP204483R1700	17,75
	630	NH3	4	XRG3-50/5-4P-EFM	1SEP204483R1701	18,07
	630	NH3	4	XRG3-50/5-4P-MOT	1SEP204483R1702	18,47
	630	NH3	4	XRG3-50/5-4P-MOT-EFM	1SEP204483R1703	18,79
	630	NH3	4	XRG3-50/5-4P-ITS2.1	1SEP204483R1716	19,39
	630	NH3	4	XRG3-50/5-4P-ITS2.1-MOT	1SEP204483R1717	20,11
	630	NH3	4	XRG3-50/5-4P-ITS2.D	1SEP204483R1718	19,39
	630	NH3	4	XRG3-50/5-4P-ITS2.D-MOT	1SEP204483R1719	20,11

SlimLine XRG Busbar Section Switch - 50 mm busbar distance and 5mm busbar thickness

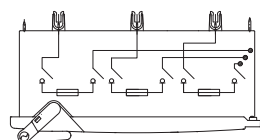
	Rated operational current [A]	Fuse size	Number of poles	Type	Order code	Weight (Kg)
	160	NH000, NH00	2	XRG00-50/5-DC	1SEP204480R1600	3,53
	250	NH1	2	XRG1-50/5-DC	1SEP204481R1600	6,25
	400	NH2	2	XRG2-50/5-DC	1SEP204482R1600	13,49
	630	NH3	2	XRG3-50/5-DC	1SEP204483R1600	13,61

Ordering information

185 mm busbar distance
and busbar thickness 10 mm

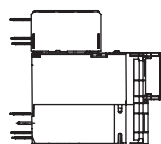
SlimLine XRG Switch Disconnecter Fuse - 185 mm busbar distance 10 mm busbar thickness

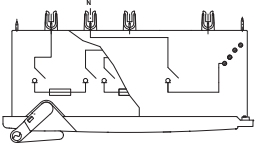
	Rated operational current [A]	Fuse size	Number of poles	Type	Order code	Weight (Kg)
	160	NH000, NH00	3	XRG00-185/10-3P	1SEP204480R3500	3,79
	160	NH000, NH00	3	XRG00-185/10-3P-EFM	1SEP204480R3501	4,01
	160	NH000, NH00	3	XRG00-185/10-3P-MOT	1SEP204480R3502	4,24
	160	NH000, NH00	3	XRG00-185/10-3P-MOT-EFM	1SEP204480R3503	4,46
	160	NH000, NH00	3	XRG00-185/10-3P-ITS2.1	1SEP204480R3516	4,31
	160	NH000, NH00	3	XRG00-185/10-3P-ITS2.1-MOT	1SEP204480R3517	4,76
	160	NH000, NH00	3	XRG00-185/10-3P-ITS2.D	1SEP204480R3518	4,41
	160	NH000, NH00	3	XRG00-185/10-3P-ITS2.D-MOT	1SEP204480R3519	4,86
	250	NH1	3	XRG1-185/10-3P	1SEP204481R3500	6,9
	250	NH1	3	XRG1-185/10-3P-EFM	1SEP204481R3501	7,12
	250	NH1	3	XRG1-185/10-3P-MOT	1SEP204481R3502	7,38
	250	NH1	3	XRG1-185/10-3P-MOT-EFM	1SEP204481R3503	7,6
	250	NH1	3	XRG1-185/10-3P-ITS2.1	1SEP204481R3516	7,56
	250	NH1	3	XRG1-185/10-3P-ITS2.1-MOT	1SEP204481R3517	8,04
	250	NH1	3	XRG1-185/10-3P-ITS2.D	1SEP204481R3518	7,66
	250	NH1	3	XRG1-185/10-3P-ITS2.D-MOT	1SEP204481R3519	8,14
	400	NH2	3	XRG2-185/10-3P	1SEP204482R3500	15,5
	400	NH2	3	XRG2-185/10-3P-EFM	1SEP204482R3501	15,82
	400	NH2	3	XRG2-185/10-3P-MOT	1SEP204482R3502	16,22
	400	NH2	3	XRG2-185/10-3P-MOT-EFM	1SEP204482R3503	16,54
	400	NH2	3	XRG2-185/10-3P-ITS2.1	1SEP204482R3516	16,87
	400	NH2	3	XRG2-185/10-3P-ITS2.1-MOT	1SEP204482R3517	17,59
	400	NH2	3	XRG2-185/10-3P-ITS2.D	1SEP204482R3518	16,97
	400	NH2	3	XRG2-185/10-3P-ITS2.D-MOT	1SEP204482R3519	17,69
	630	NH3	3	XRG3-185/10-3P	1SEP204483R3500	15,62
	630	NH3	3	XRG3-185/10-3P-EFM	1SEP204483R3501	15,94
	630	NH3	3	XRG3-185/10-3P-MOT	1SEP204483R3502	16,34
	630	NH3	3	XRG3-185/10-3P-MOT-EFM	1SEP204483R3503	16,66
	630	NH3	3	XRG3-185/10-3P-ITS2.1	1SEP204483R3516	17,26
	630	NH3	3	XRG3-185/10-3P-ITS2.1-MOT	1SEP204483R3517	17,98
	630	NH3	3	XRG3-185/10-3P-ITS2.D	1SEP204483R3518	17,36
	630	NH3	3	XRG3-185/10-3P-ITS2.D-MOT	1SEP204483R3519	18,08



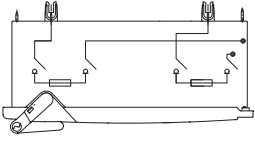
SlimLine XRG Busbar Section Switch - 185 mm busbar distance and 10 mm busbar thickness

	Rated operational current [A]	Fuse size	Number of poles	Type	Order code	Weight (Kg)
SS	630	NH3	3	XRG3-185/10-3P-SS	1SEP204483R3570	17,04



SlimLine XRG Switch Disconnecter Fuse - 185 mm busbar distance 10 mm busbar thickness


	Rated operational current [A]	Fuse size	Number of poles	Type	Order code	Weight (Kg)
	160	NH000, NH00	4	XRG00-185/10-4P	1SEP204480R3700	5,4
	160	NH000, NH00	4	XRG00-185/10-4P-EFM	1SEP204480R3701	5,62
	160	NH000, NH00	4	XRG00-185/10-4P-MOT	1SEP204480R3702	5,85
	160	NH000, NH00	4	XRG00-185/10-4P-MOT-EFM	1SEP204480R3703	6,07
	160	NH000, NH00	4	XRG00-185/10-4P-ITS2.1-MOT	1SEP204480R3717	6,37
	160	NH000, NH00	4	XRG00-185/10-4P-ITS2.D-MOT	1SEP204480R3719	6,47
	250	NH1	4	XRG1-185/10-4P	1SEP204481R3700	8,68
	250	NH1	4	XRG1-185/10-4P-EFM	1SEP204481R3701	8,9
	250	NH1	4	XRG1-185/10-4P-MOT	1SEP204481R3702	9,16
	250	NH1	4	XRG1-185/10-4P-MOT-EFM	1SEP204481R3703	9,38
	250	NH1	4	XRG1-185/10-4P-ITS2.1-MOT	1SEP204481R3717	9,82
	250	NH1	4	XRG1-185/10-4P-ITS2.D-MOT	1SEP204481R3719	9,92
	400	NH2	4	XRG2-185/10-4P	1SEP204482R3700	17,74
	400	NH2	4	XRG2-185/10-4P-EFM	1SEP204482R3701	18,06
	400	NH2	4	XRG2-185/10-4P-MOT	1SEP204482R3702	18,46
	400	NH2	4	XRG2-185/10-4P-MOT-EFM	1SEP204482R3703	18,78
	400	NH2	4	XRG2-185/10-4P-ITS2.1-MOT	1SEP204482R3717	19,83
	400	NH2	4	XRG2-185/10-4P-ITS2.D-MOT	1SEP204482R3719	19,93
	630	NH3	4	XRG3-185/10-4P	1SEP204483R3700	17,86
	630	NH3	4	XRG3-185/10-4P-EFM	1SEP204483R3701	18,18
	630	NH3	4	XRG3-185/10-4P-MOT	1SEP204483R3702	18,58
	630	NH3	4	XRG3-185/10-4P-MOT-EFM	1SEP204483R3703	18,9

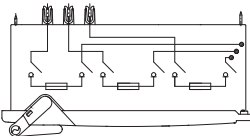
SlimLine XRG Switch Disconnecter Fuse - 185 mm busbar distance 10mm busbar thickness


	Rated operational current [A]	Fuse size	Number of poles	Type	Order code	Weight (Kg)
	160	NH000, NH00	2	XRG00-185/10-DC	1SEP204480R3600	3,52
	160	NH000, NH00	2	XRG00-185/10-DC-EFM-110	1SEP204480R3606	3,74
	160	NH000, NH00	2	XRG00-185/10-DC-EFM-500	1SEP204480R3608	3,74
	250	NH1	2	XRG1-185/10-DC	1SEP204481R3600	6,36
	250	NH1	2	XRG1-185/10-DC-EFM-110	1SEP204481R3606	6,58
	250	NH1	2	XRG1-185/10-DC-EFM-500	1SEP204481R3608	6,58
	400	NH2	2	XRG2-185/10-DC	1SEP204482R3600	14,1
	400	NH2	2	XRG2-185/10-DC-EFM-110	1SEP204482R3606	14,42
	400	NH2	2	XRG2-185/10-DC-EFM-500	1SEP204482R3608	14,82
	630	NH3	2	XRG3-185/10-DC	1SEP204483R3600	13,72
	630	NH3	2	XRG3-185/10-DC-EFM-110	1SEP204483R3606	14,04
	630	NH3	2	XRG3-185/10-DC-EFM-500	1SEP204483R3608	14,04

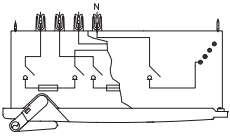
Ordering information

50 mm busbar distance (BS)
and busbar thickness 5 mm

SlimLine XRG Switch Disconnecter Fuse - 50 mm busbar distance and 5 mm busbar thickness

	Rated operational current [A]	Fuse size	Number of poles	Type	Order code	Weight (Kg)
	63	A3	3	XRG63BS-50/5-3P	1SEP204484R1500	3,7
	100	A3	3	XRG100BS-50/5-3P	1SEP204485R1500	3,7
	160	00T LAWSON	3	XRG160BS-50/5-3P	1SEP204486R1500	3,7
	160	00T LAWSON	3	XRG160BS-50/5-3P-EFM	1SEP204486R1501	3,92
	160	00T LAWSON	3	XRG160BS-50/5-3P-MOT	1SEP204486R1502	4,15
	250	B2	3	XRG250BS-50/5-3P	1SEP204487R1500	6,86
	250	B2	3	XRG250BS-50/5-3P-EFM	1SEP204487R1501	7,08
	250	B2	3	XRG250BS-50/5-3P-MOT	1SEP204487R1502	7,34
	400	B4	3	XRG400BS-50/5-3P	1SEP204488R1500	15,12
	400	B4	3	XRG400BS-50/5-3P-EFM	1SEP204488R1501	15,22
	400	B4	3	XRG400BS-50/5-3P-MOT	1SEP204488R1502	15,84
	630	3T LAWSON	3	XRG630BS-50/5-3P	1SEP204489R1500	15,24
	630	3T LAWSON	3	XRG630BS-50/5-3P-EFM	1SEP204489R1501	15,56
	630	3T LAWSON	3	XRG630BS-50/5-3P-MOT	1SEP204489R1502	15,96

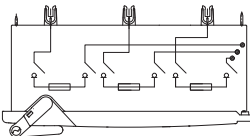
SlimLine XRG Switch Disconnecter Fuse - 50 mm busbar distance and 5 mm busbar thickness

	Rated operational current [A]	Fuse size	Number of poles	Type	Order code	Weight (Kg)
	160	00T LAWSON	4	XRG160BS-50/5-4P	1SEP204486R1700	5,33
	160	00T LAWSON	4	XRG160BS-50/5-4P-EFM	1SEP204486R1701	5,55
	160	00T LAWSON	4	XRG160BS-50/5-4P-MOT	1SEP204486R1702	5,78
	250	B2	4	XRG250BS-50/5-4P	1SEP204487R1700	8,57
	250	B2	4	XRG250BS-50/5-4P-EFM	1SEP204487R1701	8,79
	250	B2	4	XRG250BS-50/5-4P-MOT	1SEP204487R1702	9,05
	400	B4	4	XRG400BS-50/5-4P	1SEP204488R1700	17,36
	400	B4	4	XRG400BS-50/5-4P-EFM	1SEP204488R1701	17,68
	400	B4	4	XRG400BS-50/5-4P-MOT	1SEP204488R1702	18,08
	630	3T LAWSON	4	XRG630BS-50/5-4P	1SEP204489R1700	17,48
	630	3T LAWSON	4	XRG630BS-50/5-4P-EFM	1SEP204489R1701	14,8
	630	3T LAWSON	4	XRG630BS-50/5-4P-MOT	1SEP204489R1702	18,2

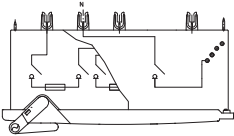
Ordering information

185 mm busbar distance (BS)
and busbar thickness 10 mm

SlimLine XRG Switch Disconnecter Fuse - 185 mm busbar distance 10mm busbar thickness

	Rated operational current [A]	Fuse size	Number of poles	Type	Order code	Weight (Kg)
	63	A3	3	XRG63BS-185/10-3P	1SEP204484R3500	3,69
	100	A3	3	XRG100BS-185/10-3P	1SEP204485R3500	3,69
	160	00T LAWSON	3	XRG160BS-185/10-3P	1SEP204486R3500	3,69
	160	00T LAWSON	3	XRG160BS-185/10-3P-EFM	1SEP204486R3501	3,91
	160	00T LAWSON	3	XRG160BS-185/10-3P-MOT	1SEP204486R3502	4,14
	160	00T LAWSON	3	XRG160BS-185/10-3P-ITS2.1	1SEP204486R3516	4,21
	160	00T LAWSON	3	XRG160BS-185/10-3P-ITS2.D	1SEP204486R3518	4,21
	250	B2	3	XRG250BS-185/10-3P	1SEP204487R3500	6,96
	250	B2	3	XRG250BS-185/10-3P-EFM	1SEP204487R3501	7,19
	250	B2	3	XRG250BS-185/10-3P-MOT	1SEP204487R3502	7,45
	250	B2	3	XRG250BS-185/10-3P-ITS2.1	1SEP204487R3516	7,63
	250	B2	3	XRG250BS-185/10-3P-ITS2.D	1SEP204487R3518	7,63
	400	B4	3	XRG400BS-185/10-3P	1SEP204488R3500	15,23
	400	B4	3	XRG400BS-185/10-3P-EFM	1SEP204488R3501	15,55
	400	B4	3	XRG400BS-185/10-3P-MOT	1SEP204488R3502	15,95
	400	B4	3	XRG400BS-185/10-3P-ITS2.1	1SEP204488R3516	16,6
	400	B4	3	XRG400BS-185/10-3P-ITS2.D	1SEP204488R3518	16,6
	630	3T LAWSON	3	XRG630BS-185/10-3P	1SEP204489R3500	15,35
	630	3T LAWSON	3	XRG630BS-185/10-3P-EFM	1SEP204489R3501	15,56
	630	3T LAWSON	3	XRG630BS-185/10-3P-MOT	1SEP204489R3502	16,07
	630	3T LAWSON	3	XRG630BS-185/10-3P-ITS2.1	1SEP204489R3516	15,56
	630	3T LAWSON	3	XRG630BS-185/10-3P-ITS2.D	1SEP204489R3518	15,56

SlimLine XRG Switch Disconnecter Fuse - 185 mm busbar distance 10mm busbar thickness

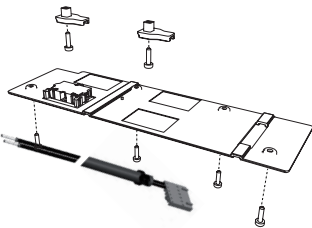
	Rated operational current [A]	Fuse size	Number of poles	Type	Order code	Weight (Kg)
	160	00T LAWSON	4	XRG160BS-185/10-4P	1SEP204486R3700	5,3
	160	00T LAWSON	4	XRG160BS-185/10-4P-EFM	1SEP204486R3701	5,52
	160	00T LAWSON	4	XRG160BS-185/10-4P-MOT	1SEP204486R3702	5,72
	250	B2	4	XRG250BS-185/10-4P	1SEP204487R3700	8,75
	250	B2	4	XRG250BS-185/10-4P-EFM	1SEP204487R3701	8,97
	250	B2	4	XRG250BS-185/10-4P-MOT	1SEP204487R3702	9,23
	400	B4	4	XRG400BS-185/10-4P	1SEP204488R3700	17,47
	400	B4	4	XRG400BS-185/10-4P-EFM	1SEP204488R3701	17,79
	400	B4	4	XRG400BS-185/10-4P-MOT	1SEP204488R3702	18,19
	630	3T LAWSON	4	XRG630BS-185/10-4P	1SEP204489R3700	17,59
	630	3T LAWSON	4	XRG630BS-185/10-4P-EFM	1SEP204489R3701	17,91
	630	3T LAWSON	4	XRG630BS-185/10-4P-MOT	1SEP204489R3702	18,31

Ordering information

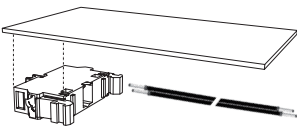
Auxiliary switches

Auxiliary switch kits
Auxiliary switch kits include 1 auxiliary switch 2 wires, connector, protectioncover and screws.

Type	Suitable for Switch Size	Order code
NO-XR00-KIT	XRG00	1SEP619081R0001
NC-XR00-KIT	XRG00	1SEP619083R0001
NO-XR1-KIT	XRG1	1SEP619084R0001
NC-XR1-KIT	XRG1	1SEP619089R0001
NO-XR2/3-KIT	XRG2, XRG3	1SEP619097R0001
NC-XR2/3-KIT	XRG2, XRG3	1SEP619096R0001



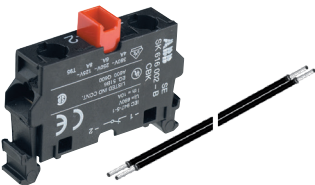
XRG00 Aux. switch 1NO/NC kit,
with wires and connector



XRG2/3 Aux. switch 1NO/NC kit,
with wires

Additional auxiliary switches
Additional auxiliary switches include 1 auxiliary switch and 2 wires.

Type	Suitable for Switch Size	Order code
NO-XR00/1-W	XRG00, XRG1	1SEP619094R0001
NC-XR00/1-W	XRG00, XRG1	1SEP619095R0001
NO-XR2/3-W	XRG2, XRG3	1SEP619092R0001
NC-XR2/3-W	XRG2, XRG3	1SEP619093R0001



Auxiliary switch with wires

Ordering information

Multiplug P, ammeter and EFM bracket

Multiplug P

Pin Number	Cable size	Suitable for Switch Size	Type	Description	Order code
1 to 6	0,2-2,5 mm ²	XRG00, XRG1	MP-XR00/1-P6	Multiplug P6 for CT's	1SEP619532R0506
11 to 20	0,14 - 1,5 mm ²	XRG00, XRG1	MP-XR00/1-P10	Multiplug P10 for AUX - EFM - MOT	1SEP619532R0510
1 to 6	0,2 - 2,5 mm ²	XRG00, XRG1	MP-XR00/1-P16	Multiplug P16 for CT's - AUX - EFM - MOT*	1SEP619532R0516
11 to 20	0,14 - 1,5 mm ²	XRG2, XRG3	MP-XR2/3-P8	Multiplug P8 for CT's	1SEP408513R0001
1 to 8	0,2 - 2,5 mm ²				
1 to 8	0,14 - 1,5 mm ²	XRG2, XRG3	MP-XR2/3-P8-S	Multiplug P8 with screws for CT's	1SEP408515R0001
11 to 20	0,14 - 1,5 mm ²	XRG2, XRG3	MP-XR2/3-P12	Multiplug P12 for AUX - EFM - MOT	1SEP619637R0001
1 to 8	0,2 - 2,5 mm ²	XRG2, XRG3	MP-XR2/3-P20	Multiplug P20 for CT's - AUX - EFM - MOT*	1SEP408514R0001
11 to 20	0,14 - 1,5 mm ²				

*This multiplug is included when ordering EFM or MOT



Multiplug P

Ammeter

Measuring range	CT secondary current	Type	Order code
0-150-180	5A	AM-XR-0-150-180/5	NHSN714003P1150
0-250-300	1A	AM-XR-0-250-300/1	NHSN714003P0250
0-250-300	5A	AM-XR-0-250-300/5	NHSN714003P1250
0-400-480	1A	AM-XR-0-400-480/1	NHSN714003P0400
0-400-480	5A	AM-XR-0-400-480/5	NHSN714003P1400
0-600-720	1A	AM-XR-0-600-720/1	NHSN714003P0600
0-600-720	5A	AM-XR-0-600-720/5	NHSN714003P1600

Ammeter housing

Type	Description	Order code
BR-XRG-AM	XRG Ammeter housing	1SEP622664R0001

Ordering information

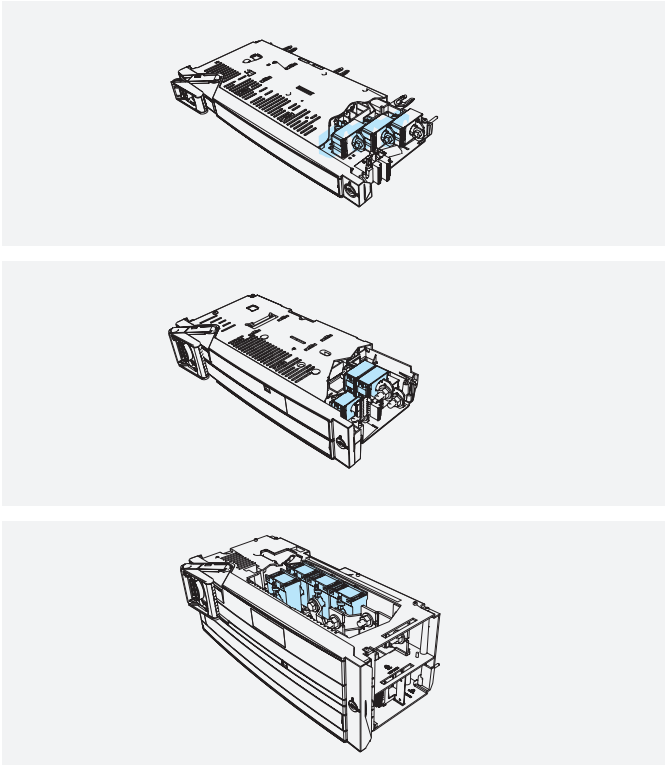
Current metering in SlimLine XR Gold standard device 1 and 3 phase

Current transformers

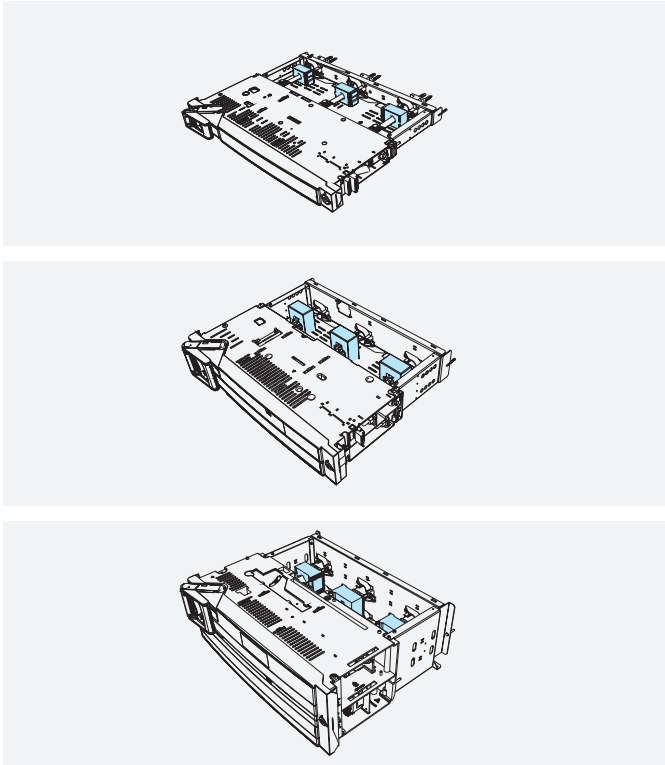
XRG00 and XRG1 mounted inside the switch needs a terminal extention

Suitable for size	Mountable inside switch	Mountable with contact extention	Ratio	Power	Class	CT diameter	MBS-type	Type	Order code
XRG00, XRG1	x	x	150/1	3,75	1	21 mm	ASR 20.3	CT-XR00/1-150/1-1	NHSN718054P1015
XRG00, XRG1	x	x	150/5	3,75	1	21 mm	ASR 20.3	CT-XR00/1-150/5-1	NHSN718054P5015
XRG00, XRG1	x	x	150/1	2,5	0,5	21 mm	ASR 20.3	CT-XR00/1-150/1-0.5	NHSN718055P1015
XRG00, XRG1	x	x	150/5	2,5	0,5	21 mm	ASR 20.3	CT-XR00/1-150/5-0.5	NHSN718055P5015
XRG1	x		250/1	5	1	21 mm	ASR 20.3	CT-XR1-250/1-1	NHSN718054P1025
XRG1	x		250/5	5	1	21 mm	ASR 20.3	CT-XR1-250/5-1	NHSN718054P5025
XRG1	x		250/1	5	0,5	21 mm	ASR 20.3	CT-XR1-250/1-0.5	NHSN718055P1025
XRG1	x		250/5	5	0,5	21 mm	ASR 20.3	CT-XR1-250/5-0.5	NHSN718055P5025
XRG1		x	250/1	10	1	32 mm	ASK 41.4	CT-XR2/3-250/1-1	NHSN718047P1025
XRG1		x	250/5	10	1	32 mm	ASK 41.4	CT-XR2/3-250/5-1	NHSN718047P5025
XRG1		x	250/1	5	0,5	32 mm	ASK 41.4	CT-XR2/3-250/1-0.5	NHSN718056P1025
XRG1		x	250/5	5	0,5	32 mm	ASK 41.4	CT-XR2/3-250/5-0.5	NHSN718056P5025
XRG2, XRG3	x	x	250/1	10	1	32 mm	ASK 41.4	CT-XR2/3-250/1-1	NHSN718047P1025
XRG2, XRG3	x	x	250/5	10	1	32 mm	ASK 41.4	CT-XR2/3-250/5-1	NHSN718047P5025
XRG2, XRG3	x	x	300/1	10	1	32 mm	ASK 41.4	CT-XR2/3-300/1-1	NHSN718047P1030
XRG2, XRG3	x	x	300/5	10	1	32 mm	ASK 41.4	CT-XR2/3-300/5-1	NHSN718047P5030
XRG2, XRG3	x	x	400/1	10	1	32 mm	ASK 41.4	CT-XR2/3-400/1-1	NHSN718047P1040
XRG2, XRG3	x	x	400/5	10	1	32 mm	ASK 41.4	CT-XR2/3-400/5-1	NHSN718047P5040
XRG2, XRG3	x	x	500/1	10	1	32 mm	ASK 41.4	CT-XR2/3-500/1-1	NHSN718047P1050
XRG2, XRG3	x	x	500/5	10	1	32 mm	ASK 41.4	CT-XR2/3-500/5-1	NHSN718047P5050
XRG2, XRG3	x	x	600/1	10	1	32 mm	ASK 41.4	CT-XR2/3-600/1-1	NHSN718047P1060
XRG2, XRG3	x	x	600/5	10	1	32 mm	ASK 41.4	CT-XR2/3-600/5-1	NHSN718047P5060
XRG2, XRG3	x	x	300/1	10	0,5	32 mm	ASK 41.4	CT-XR2/3-300/1-0.5	NHSN718056P1030
XRG2, XRG3	x	x	300/5	10	0,5	32 mm	ASK 41.4	CT-XR2/3-300/5-0.5	NHSN718056P5030
XRG2, XRG3	x	x	400/1	10	0,5	32 mm	ASK 41.4	CT-XR2/3-400/1-0.5	NHSN718056P1040
XRG2, XRG3	x	x	400/5	10	0,5	32 mm	ASK 41.4	CT-XR2/3-400/5-0.5	NHSN718056P5040
XRG2, XRG3	x	x	500/1	10	0,5	32 mm	ASK 41.4	CT-XR2/3-500/1-0.5	NHSN718056P1050
XRG2, XRG3	x	x	500/5	10	0,5	32 mm	ASK 41.4	CT-XR2/3-500/5-0.5	NHSN718056P5050
XRG2, XRG3	x	x	600/1	10	0,5	32 mm	ASK 41.4	CT-XR2/3-600/1-0.5	NHSN718056P1060
XRG2, XRG3	x	x	600/5	10	0,5	32 mm	ASK 41.4	CT-XR2/3-600/5-0.5	NHSN718056P5060
XRG2, XRG3	x	x	300/5	5	0,2 s	32 mm	ASK 41.4	CT-XR2/3-300/5-0.2S	NHSN718053P5030
XRG2, XRG3	x	x	400/5	5	0,2 s	32 mm	ASK 41.4	CT-XR2/3-400/5-0.2S	NHSN718053P5040
XRG2, XRG3	x	x	500/5	5	0,2 s	32 mm	ASK 41.4	CT-XR2/3-500/5-0.2S	NHSN718053P5050
XRG2, XRG3	x	x	600/5	5	0,2 s	32 mm	ASK 41.4	CT-XR2/3-600/5-0.2S	NHSN718053P5060

CT's mounded inside

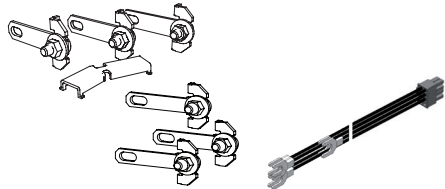


CT's mounded to contact extention



Terminal extention kit for CT in XRG00 and XRG1

CT diameter	Number of terminal extentions	Type	Order code
21 mm	1	TE-XR00-21-1	1SEP621867R0001
21 mm	3	TE-XR00-21-3	1SEP619446R0001
14 mm	1	TE-XR00-14-1	1SEP408630R0001
14 mm	3	TE-XR00-14-3	1SEP619447R0001
21 mm	2	TE-XR1-21-1	1SEP621868R0001
21 mm	3	TE-XR1-21-3	1SEP619448R0001
21 mm	4	TE-XR1-14-1	1SEP408526R0001
17 mm	3	TE-XR1-14-3	1SEP619449R0001



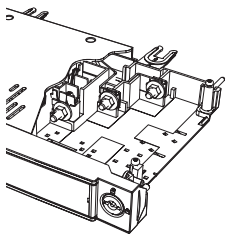
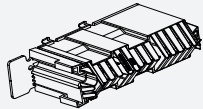
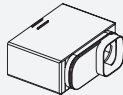
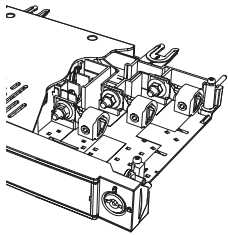
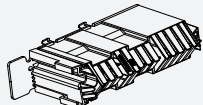
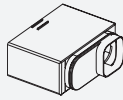
Contact extension kit

Ordering information

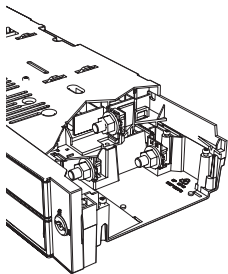
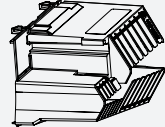
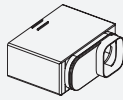
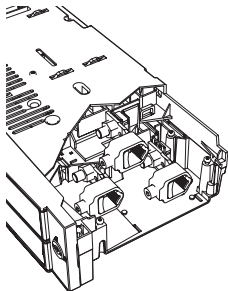
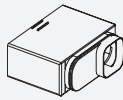
Cable termination and cable shrouds

The SlimLine XR Gold is delivered with bolts as standard for connection of cables with lugs. Cable clamps for Al/Cu-cables are available as accessories.

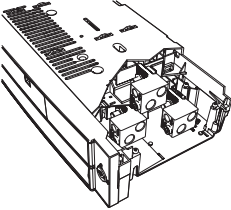
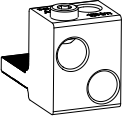
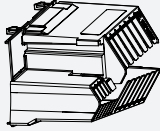
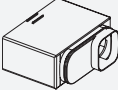
— XRG00 160 A

	Type of clamp/bolt w/order code	Cable (Al/Cu) size (mm ²)		Torque (Nm)	Number of poles	Cable shroud w/order code
	M8 (Standard)	- 95 - 120 ¹⁾		15 Nm	2 / 3	 1SEP408496R0001
					N / 4th	 1SEP407775R0001
	Single clamp			15 Nm	 2 / 3	 1SEP408496R0001
	3 pole: 1SEP408499R0001	Re: 10 - 50		18 Nm	 N / 4th	 1SEP407775R0001
	4 pole: 1SEP408501R0001	Rm: 10 - 50 Se: 50 - 70 Sm: 35 - 50	95 70 - 95			

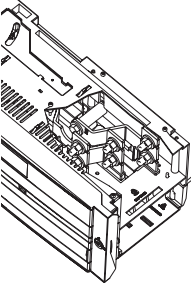
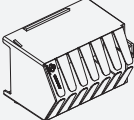
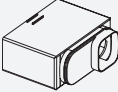
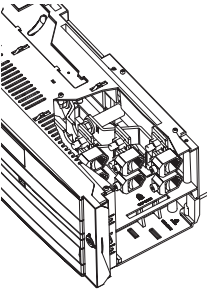
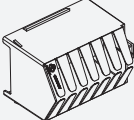
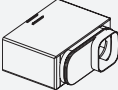
— XRG1 250A

	Type of clamp/bolt w/order code	Cable (Al/Cu) size (mm ²)		Torque (Nm)	Number of poles	Cable shroud w/order code
	M12 (Standard)	- 240		30 Nm	2 / 3	 1SEP618211R0001
					N / 4th	 1SEP407775R0001
	Single clamp			20 Nm	 2 / 3	 1SEP618211R0001
	3 pole: 1SEP408500R0001	Re: 16 - 70	70 - 150	23 Nm	 N / 4th	 1SEP407775R0001
	4 pole: 1SEP408502R0001	Rm: 16 - 35 Se: 35 - 70 Sm: 35 - 50	50 - 185 95 - 300 70 - 240			

XRG1 250 A

	Type of clamp/bolt w/order code	Cable (Al/Cu) size (mm ²)	Torque (Nm)	Number of poles	Cable shroud w/order code
	Double clamp		15 Nm	2 / 3	 1SEP618211R0001
	3 pole: 1SEP408205R0003	Re: 10 - 150			
		Rm: 10 - 95		N / 4th	 1SEP407775R0001
	4 pole: 1SEP408205R0004	Se: 10 - 120 Sm: 10 - 95			

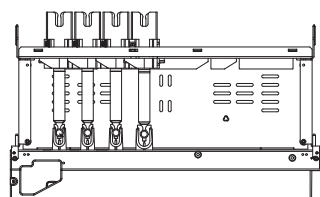
XRG2/3 400/630 A

	Type of clamp/bolt w/order code	Cable (Al/Cu) size (mm ²)	Torque (Nm)	Number of poles	Cable shroud w/order code
			30 Nm	2 / 3	 1SEP408496R0001
	M12 (Standard)	2 x 240		N / 4th	 1SEP407775R0001
	Double clamp	 	20 Nm	 2 / 3	 1SEP408498R0001
	3 pole: 1SEP304446R0002	Re: 16 - 70 70 - 150			
		Rm: 16 - 35 50 - 185	23 Nm	 N / 4th	 1SEP407775R0001
	4 pole: 1SEP408503R0001	Se: 35 - 70 95 - 300 Sm: 35 - 50 70 - 240			

Ordering information

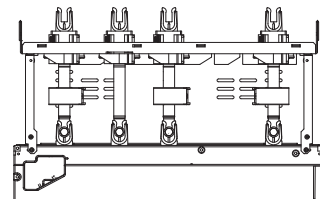
Contact extensions

Contact extensions for 50 mm



Number of poles	Busbar distance	Suitable for Switch Size	Type	Order code
2	50	XRG00	CE-XR00-50-2P	1SEP102127R0002
2	50	XRG1	CE-XR1-50-2P	1SEP102128R0002
2	50	XRG2, XRG3	CE-XR2/3-50-2P	NHP 100495R0003
3	50	XRG00	CE-XR00-50-3P	1SEP102127R0001
3	50	XRG1	CE-XR1-50-3P	1SEP102128R0001
3	50	XRG2, XRG3	CE-XR2/3-50-3P	NHP 100495R0001
3	50	XRG3 SP	CE-XRM3-50-3P-SP	NHP 100495R0006
4	50	XRG00	CE-XR00-50-4P	1SEP102137R0001
4	50	XRG1	CE-XR1-50-4P	1SEP102138R0001
4	50	XRG2, XRG3	CE-XR2/3-50-4P	1SEP101861R0001

Contact extensions for 185 mm



Number of poles	Busbar distance	Suitable for Switch Size	Type	Order code
2	185	XRG00	CE-XR00-185-2P	1SEP408541R0001
2	185	XRG1	CE-XR1-185-2P	1SEP408542R0001
2	185	XRG2, XRG3	CE-XR2/3-185-2P	1SEP408543R0001
3	185	XRG00	CE-XR00-185-3P	1SEP102135R0001
3	185	XRG1	CE-XR1-185-3P	1SEP102136R0001
3	185	XRG2, XRG3	CE-XR2/3-185-3P	NHP 100886R0001
4	185	XRG00	CE-XR00-185-4P	1SEP102208R0001
4	185	XRG1	CE-XR1-185-4P	1SEP102209R0001
4	185	XRG2, XRG3	CE-XR2/3-185-4P	1SEP102198R0001

Ordering information

Common accessories

Common accessories

Type	Description	Order code
VBC-XR-50	XR Ventilated blind cover 50 mm IP41	1SEP408528R0001
MGR-XR-200	XR/SR Module guide rails 200 mm	NHP 200947R0002
MGR-XR-400	XR/SR Module guide rails 400 mm	NHP 200947R0003
DHK-XR2/3	XR2/3 Double handle kit	1SEP601098R0001
RT-XR	XR Replacement tool	1SEP601118R0001
CTK-XR	Cable terminal key (tool)	NHSN950001P0006
FCK-XR	Front cover key	GMN 436770P0022
PE-XR	XR Padlock Extension up to 3 padlocks	1SEP408753R0001



XR2/3 Double handle kit



Replacement tool



Cable terminal key



Front cover key



Padlock extension

Ordering information

SlimLine cassettes and IP busbar covers

SlimLine Cassette

The SlimLine cassette is a complete steel framework with busbar supports. It is used as a framework for easy installation of the SlimLine product range into switchgear systems which do not accept the SlimLine directly.

Facts about the SlimLine cassette:

Available in 4 sizes:

Height = 500 mm, max 10 pcs. 00-devices

Height = 1000 mm, max 20 pcs. 00-devices

Height = 1500 mm, max 30 pcs. 00-devices

Height = 2000 mm, max 40 pcs. 00-devices

- Supplied as a flat package without busbars
- Easy and fast assembly using self tapping screws
- For vertical or horizontal installation
- Aluzink coated profiles
- Front profiles as well as top- and bottom plates are black
- Extendable in the busbar direction
- Type tested busbar system
- 65 kA 10 x 40 -> 100 mm cu-busbars
- 3- and 4-pole solutions
- Available for 185 mm busbar distance

IP 20 busbar cover kit

Kit with busbar covers for IP 20 degree of protection. They can be snapped directly into the cassette.

Kit for 400 mm depth

In order to extend the normal depth of 200 mm in a standard cassette of 400 mm, a special 400 mm extra top and bottom unit is available for replacing the standard top and bottom units. Two units are required as replacements in one cassette. Order code 1SEP102079P0001 is for 1 unit.

Cassette for 185 mm busbar distance 3- and 4-pole

H = 500 mm

H = 1000 mm

H = 1500 mm

H = 2000 mm

IP20 busbar cover kit Universal 3- and 4-pole, 185 mm

Kit for:

H = 500 mm

H = 1000 mm

H = 1500 mm

H = 2000 mm

Rated current for the busbars

CU-profile (mm)	Max current* (A)	Short circuit current (kA) rms 1 sec.	Rated Voltage (V)
10 x 40	715	65	690
10 x 50	852	65	690
10 x 60	985	65	690
10 x 80	1240	65	690
10 x 100	1490	65	690

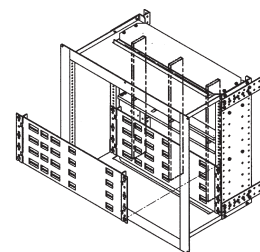
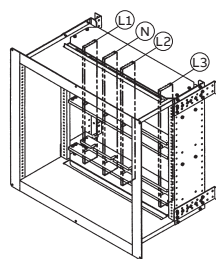
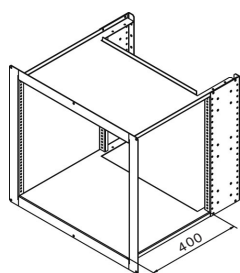
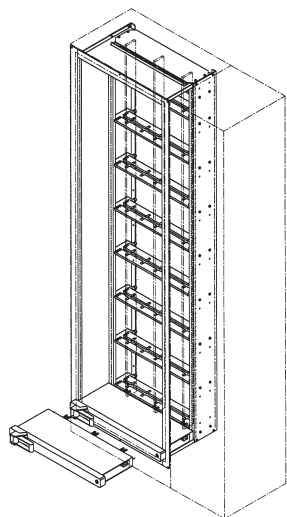
* All values at 35°C ambient temperature and busbar temperature of 65°C.

SlimLine cassettes for busbar distance 185mm

Hight	Type	Order code	Weight (kg)
500 mm	CAS-XR-185/500	1SEP102223R0001	12,7
1000 mm	CAS-XR-185/1000	1SEP102223R0002	21,2
1500 mm	CAS-XR-185/1500	1SEP102223R0003	30
2000 mm	CAS-XR-185/2000	1SEP102223R0004	38

IP busbar cover for busbar distance 185mm

Hight	Type	Order code	Weight (kg)
500 mm	BBC-XR-500	NHP 407062R0001	1,5
1000 mm	BBC-XR-1000	NHP 407062R0002	2,8
1500 mm	BBC-XR-1500	NHP 407062R0003	4,1
2000 mm	BBC-XR-2000	NHP 407062R0004	5,4
200 mm	BBC-XR-200	NHP 101474P0001	0,5



Ordering information

Spareparts and front covers

Spareparts and accessories for switches equipped with ITS2.1 and ITS2.D

Type	Description	Order code
ITS2.1-XR	XR ITS2.1 Control unit for XR 00, 1, 2, 3	1SEP621859R0001
ITS2.D-XR	XR ITS2.D Control unit with Display for XR	1SEP621860R0001
ED-XR-ITS2.1	Ekip Display to add at the ITS2.1 incl. window	1SEP621862R0001
	Ekip Programming	1SDA076154R1
MP-XR-ITS2	ITS2 / ITS2.1 / ITS2.D Multiplug (spare part)	1SEP622641R0001

Front covers with operating handle for NH (spare parts)

Type	Suitable for Switch Size	Order code
FC-XR00-NH	XRG00	1SEP102219R0002
FC-XR00-NH-R*	XRG00	1SEP102219R0005
FC-XR1-NH	XRG1	1SEP102222R0002
FC-XR2-NH	XRG2	1SEP408521R0001
FC-XR3-NH	XRG3	1SEP408521R0003

* This is a red coloured handle

Front covers with operating handle for BS (spare parts)

Type	Suitable for Switch Size	Order code
FC-XR00-BS	XRG00	1SEP102219R0012
FC-XR1-BS	XRG1	1SEP102222R0012
FC-XR2-BS	XRG2	1SEP408521R0011
FC-XR3-BS	XRG3	1SEP408521R0013





Technical Data

042	SlimLine XR Gold - Switch disconnecter fuses
044	Electronic Fuse Monitoring (EFM) and Motor operation (MOT)

Technical Data

SlimLine XR Gold- Switch disconnecter fuses

2 Pole

Type	XRG00		XRG1		XRG2		XRG3	
Rated operational voltage U _e (V)	230	500	230	500	230	500	230	500
Rated operational current I _e (A)	160	125	250	250	400	315	630	500
Rated insulation voltage U _i (V)	1000	1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage U _{imp} (V)	8000	8000	8000	8000	8000	8000	8000	8000
Fuse protected short circuit making (kArms)	66	66	66	66	66	66	66	66
Fuse protected short circuit withstand (kArms)	100	100	100	100	100	100	100	100
Rated making and breaking capacity	DC23B	DC21B	DC23B	DC21B	DC23B	DC21B	DC23B	DC21B
Durability: Total / With current	1600/200	1600/200	1600/200	1600/200	1000/200	1000/200	1000/200	1000/200
Degree of protection from the front acc. to IEC / EN 60529	IP41	IP41	IP41	IP41	IP41	IP41	IP41	IP41

Type tested according to IEC 60947-3.

Tests run at AC

3 Pole

Type	XRG00				XRG1		XRG2		XRG3
Rated operational voltage Ue (V)	500	690	500	690	800	500	690	500	690
Rated operational current Ie (A)	160	125	250	250	250	400	400	630	500
Rated insulation voltage Ui (V)	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage Uimp (V)	8000	8000	8000	8000	8000	8000	8000	8000	8000
Fuse protected short circuit making (kArms)	120	100	120	100	100	120	100	120	100
Fuse protected short circuit withstand (kArms)	120	100	120	100	100	120	100	120	100
Rated making and breaking capacity	AC23A	AC23A	AC23A	AC23A	AC22B	AC23A	AC23A	AC23A	AC23A
Rated frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Durability: Total / With current	8000/1000	8000/1000	8000/1000	8000/1000	1600/200	5000/1000	5000/1000	5000/1000	5000/1000
Degree of protection from the front acc. to IEC / EN 60529	IP41	IP41	IP41	IP41	IP41	IP41	IP41	IP41	IP41

Type tested according to IEC 60947-3.

Valid also for BS fuses

4 Pole

Type	XRG00	XRG1	XRG2	XRG3
Rated operational voltage U _e (V)	500	500	500	500
Rated operational current I _e (A)	160	250	400	630
Rated insulation voltage U _i (V)	1000	1000	1000	1000
Rated impulse withstand voltage U _{imp} (V)	8000	8000	8000	8000
Fuse protected short circuit making (kArms)	55	55	55	55
Fuse protected short circuit withstand (kArms)	100	100	100	100
Rated making and breaking capacity	AC23B	AC23B	AC23B	AC23B
Rated frequency (Hz)	50/60	50/60	50/60	50/60
Durability: Total / With current	1600/200	1600/200	1000/200	1000/200
Degree of protection from the front acc. to IEC / EN 60529	IP41	IP41	IP41	IP41

Type tested according to IEC 60947-3.

Tests run at AC

Power losses in SlimLine XR Gold

Size	00	1	2	3
Rated current (A)	160	250	400	630
XRG* (W)	33	70	100	245

*The values given include all three phases, but without fuses.

Type of Fuses for XRM BS versions

Current	Fuse Type	Distance between fuse bolts
63 A	A3	72 mm
100 A	A3	72 mm
160 A	00T Lawson	72 mm
250 A	B2	110 mm
400 A	B4	112 mm
630 A	3T Lawson	112 mm

Technical Data

Electronic Fuse Monitoring (EFM) and Motor operation (MOT)

Technical data for XRG EFM

Input voltage limits	DC	AC
Rated AC voltage Ue		280...880VAC
DC 110: Rated DC voltage Ue	45 ... 140VDC	
DC 550: Rated DC voltage Ue	135 ... 550VDC	
Power consumption	2W	< 3VA
Functional characteristics		
Operating time to	≤ 4s	≤ 2s
Measuring accuracy	± 5%	
Signaling relay output terminals (multiplug)		
Normally opened	Terminal 11 - 12	Terminal 11 - 12
Normally closed	Terminal 12 - 13	Terminal 12 - 13
Rated load, resitive	4A at 24VDC Utilization category DC-1	5A at 24VDC
Rated load, inductive	2A at 24VDC Utilization category DC-13	5A at 24VDC
Rated load, resitive	4A at 240VAC Utilization category AC-1	5A at 240VAC
Rated load, inductive	3A at 240VAC Utilization category AC-15	5A at 240VAC
Wiring capacity (mm²)	Stranded/solied 0.14 - 1.5	Stranded/solied 0.14 - 1.5
	Stranded with ferrule, with/without plastic sleeve 0.25-0.5/0.25-1.5	Stranded with ferrule, with/without plastic sleeve 0.25-0.5/0.25-1.5
Dielectric properties (IEC 60947-1)		
Rated impulse withstand voltage (Uimp), basic insulation	2.5kV / 6.0kV	9.8kV
All poles connected together/Earth	1.5kV / 1.89kV / 1min 50Hz	3.5kV / 1min 50Hz
All poles connected together/Auxiliary contacts	1.89kV / 1min 50Hz	3.5kV / 1min 50Hz
Insulation resistance	> 1MΩ, 500VDC	
EMC characteristics		
Electrostatic Discharge EN 6100-4-2 Air	8kV	± 8kV
Electrostatic Discharge EN 6100-4-2 Contact	4kV	± 4kV
Electrostatic Fast Transient EN 6100-4-4	Level 3	Level 3
Surge immunity EN 6100-4-5	Level 2	Level 2
Power frequency magnetic field EN 6100-4-8	Level 5	Level 5
MTBF	1.103.137 hours at 80°C	

Technical data for Motor operation (MOT)

Technical data MOT	XRG00 MOT	XRG1 MOT	XRG2/3 MOT
Operational voltage	24 V DC ± 2 Volt		
Operational consumption peak value *	1.1 A	1.3 A	2.8 A
Signal duration	Min. 0.5 sec. or permanent		
Minimum number of operations	According to IEC / EN 60947-3		

* Recommended power supply 10A.





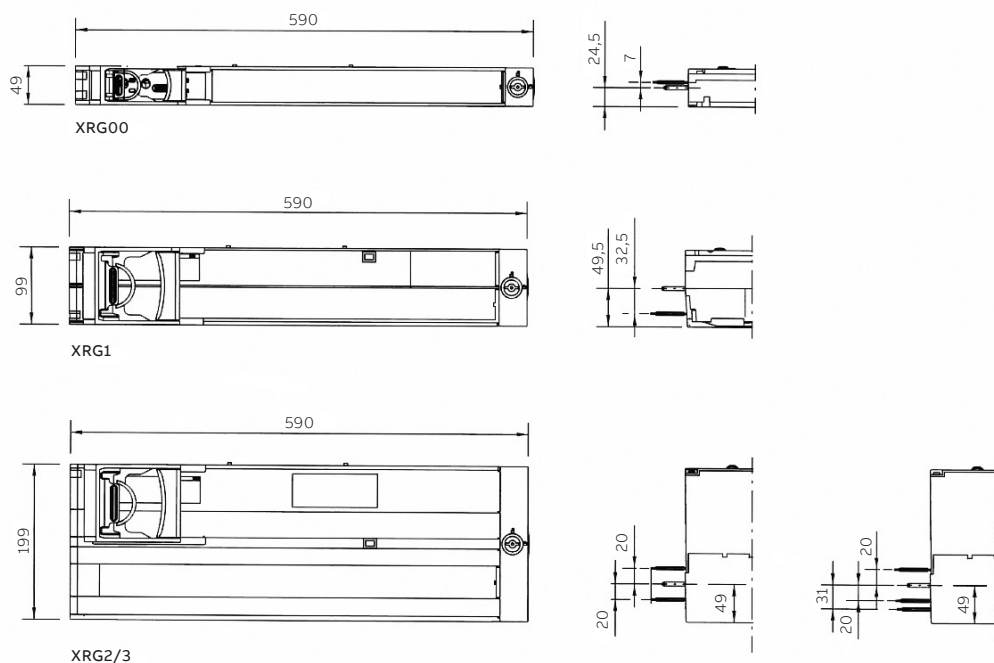
Dimensional drawings

048	Front and side view
049	Top view
050	Section switch
051	Contact extension, 50 mm distance between phases
052	Contact extension, 185 mm distance between phases
053	Ammeters and Current transformers
054	Cassette

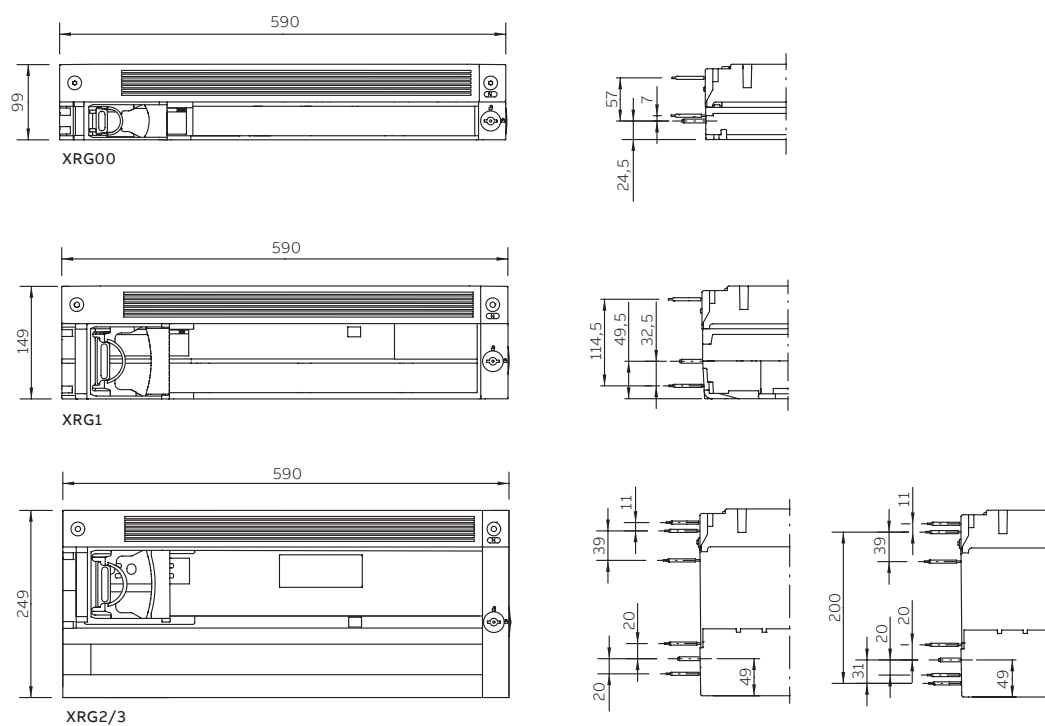
Dimensional drawings

Front and side view

2 pole / 3 pole



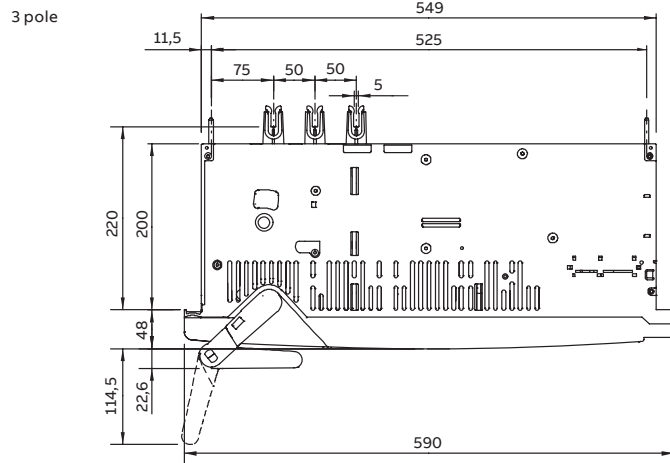
4 pole



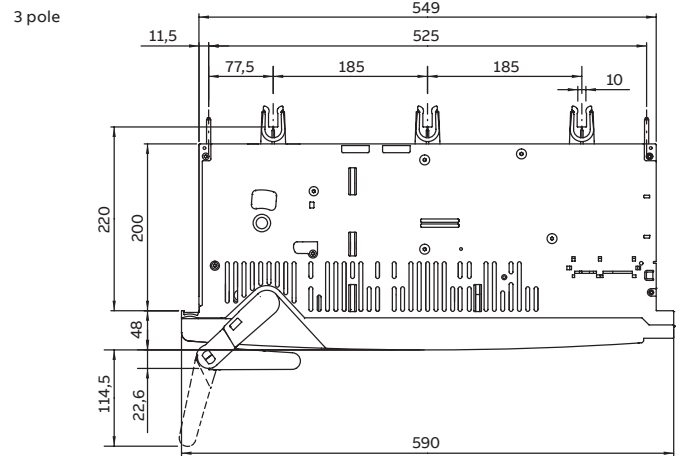
Dimensional drawings

Top view

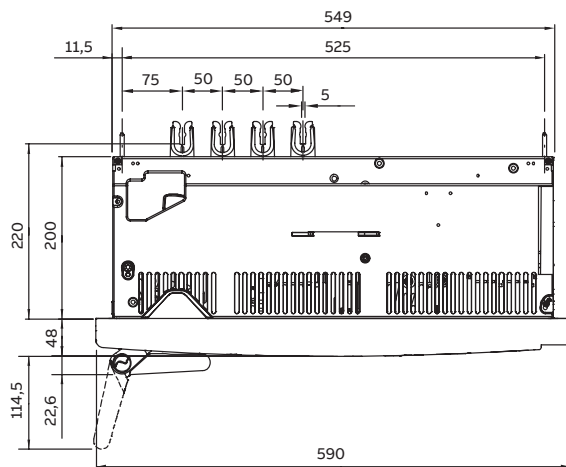
50 mm distance between phases



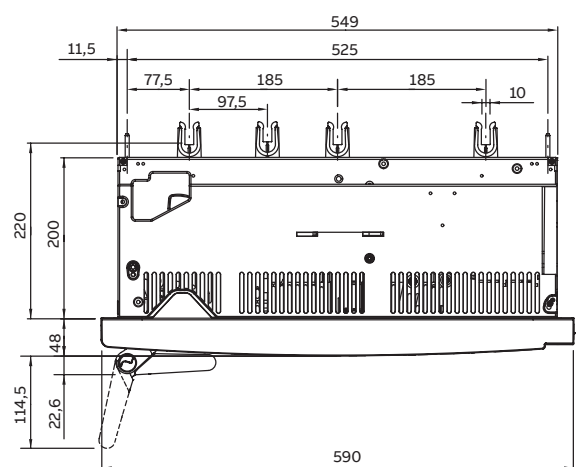
185 mm distance between phases



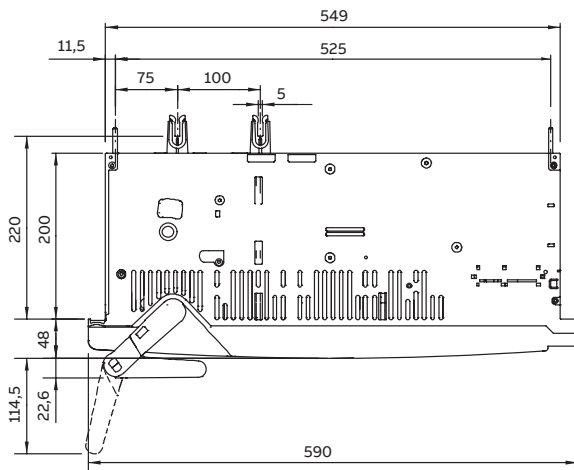
4 pole



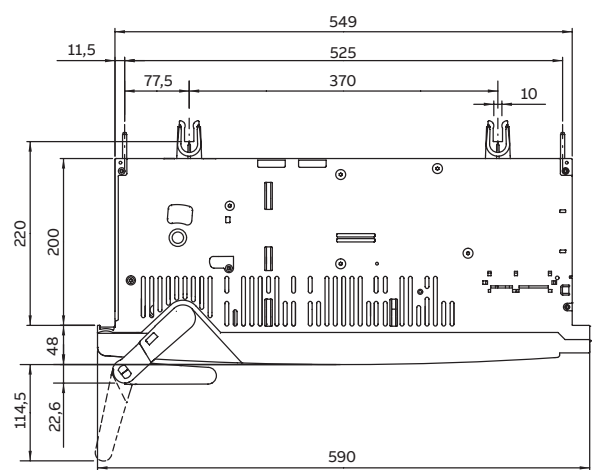
4 pole



2 pole



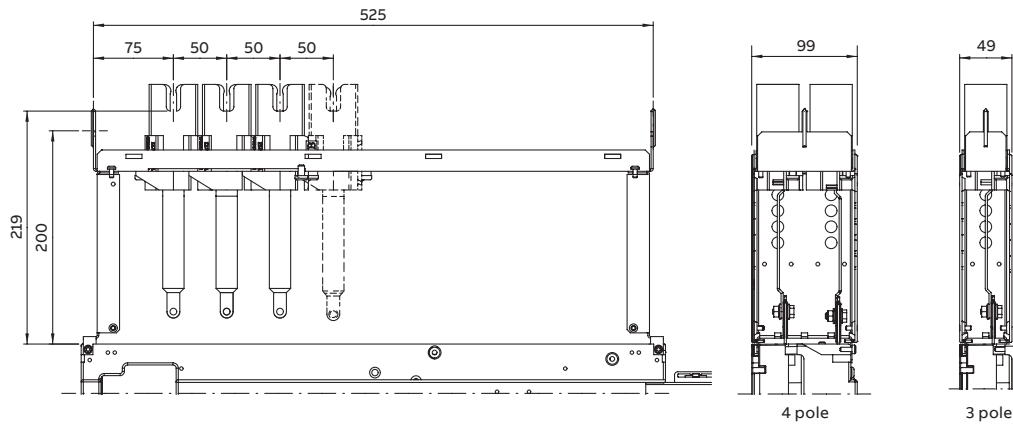
2 pole



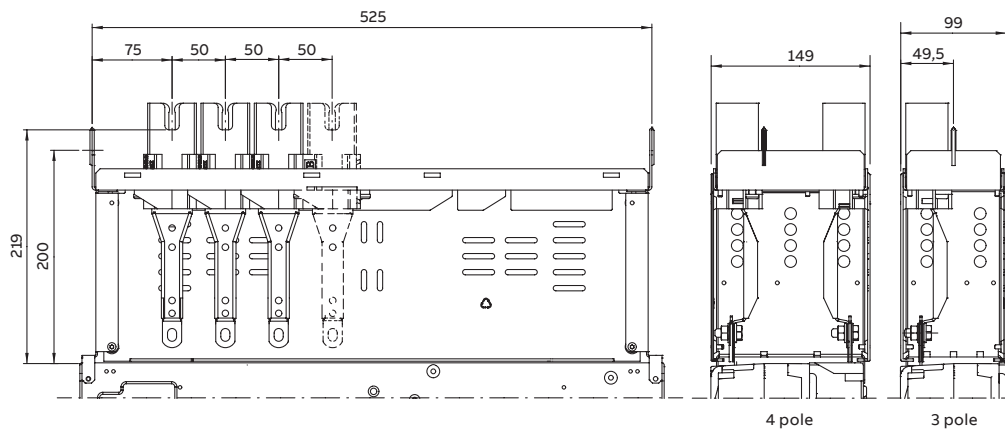
Dimensional drawings

Contact extension,
50 mm distance between phases

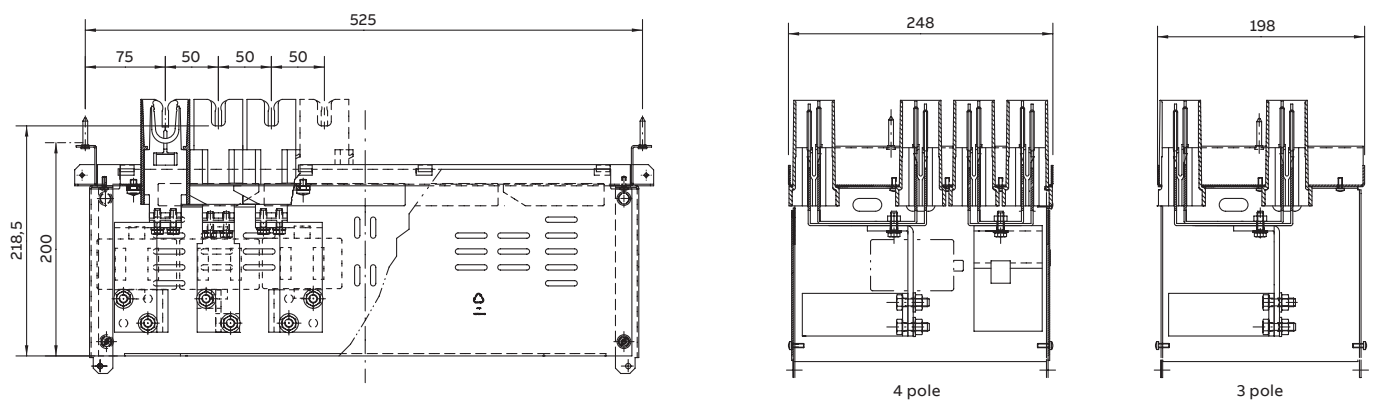
XRG00



XRG1



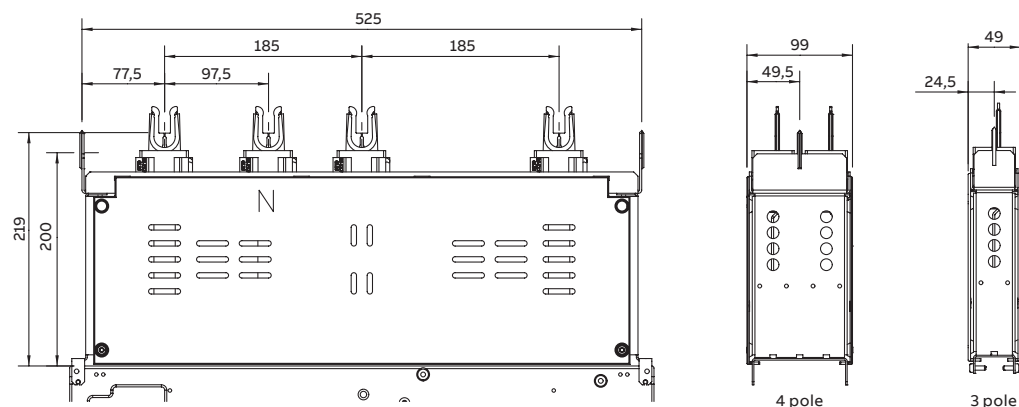
XRG2/3



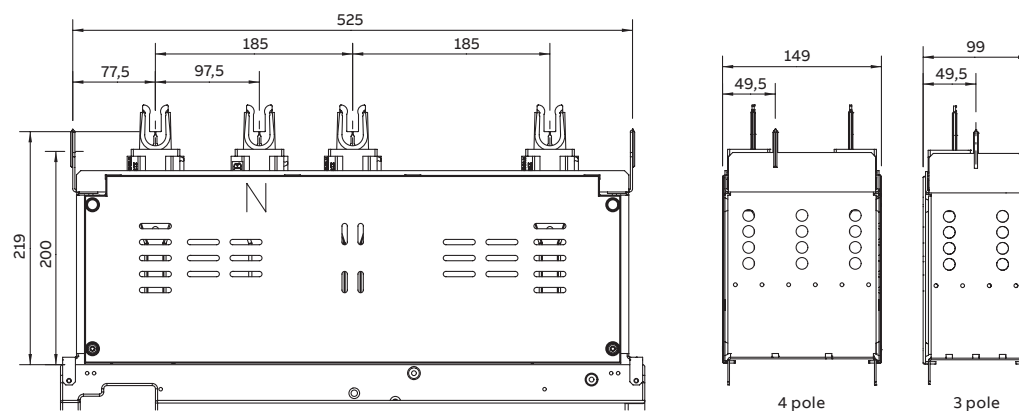
Dimensional drawings

Contact extension,
185 mm distance between phases

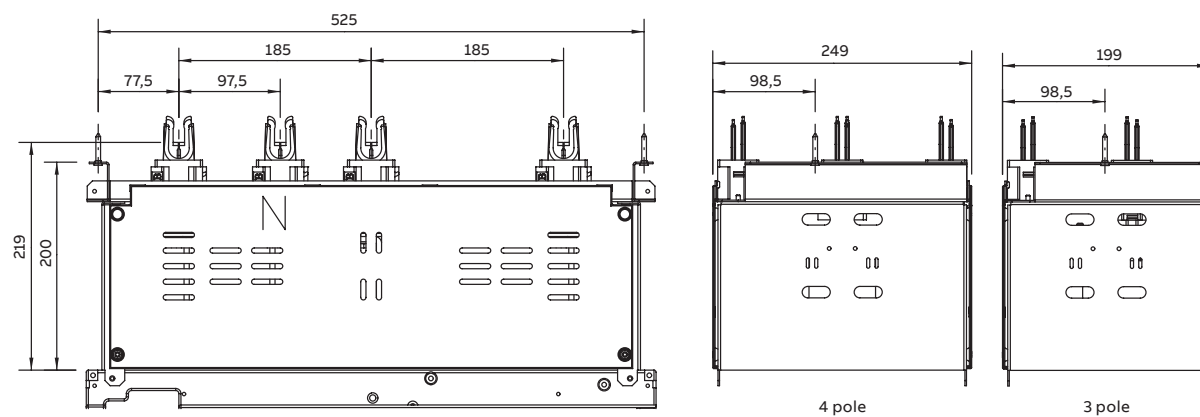
XRG00



XRG1



XRG2/3

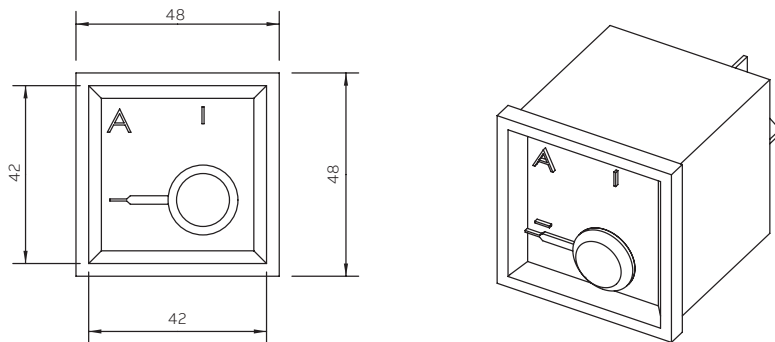


Dimensional drawings

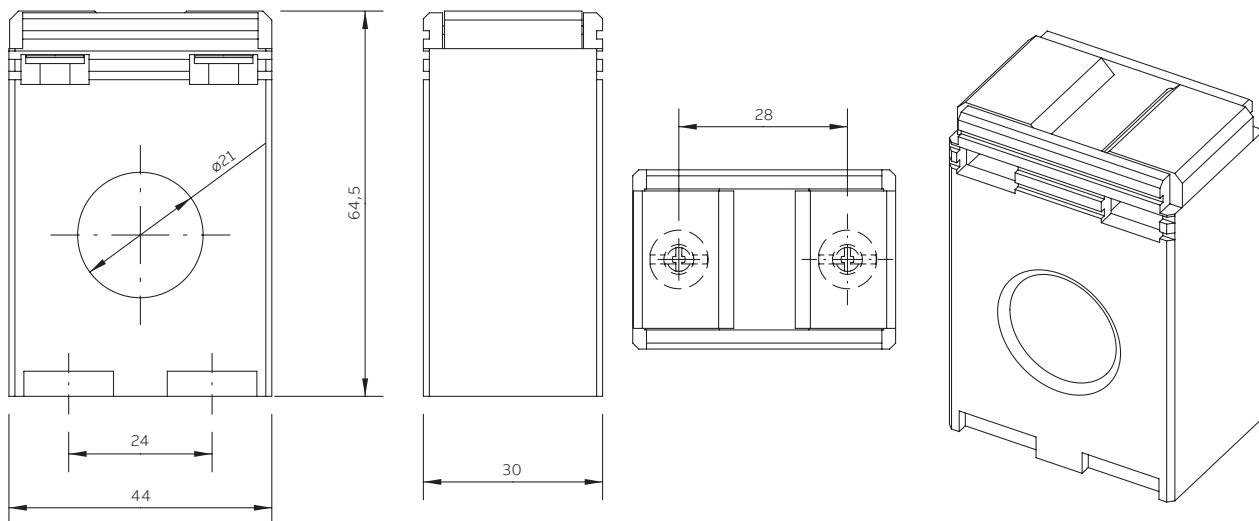
Ammeters and Current transformers

Ammeters

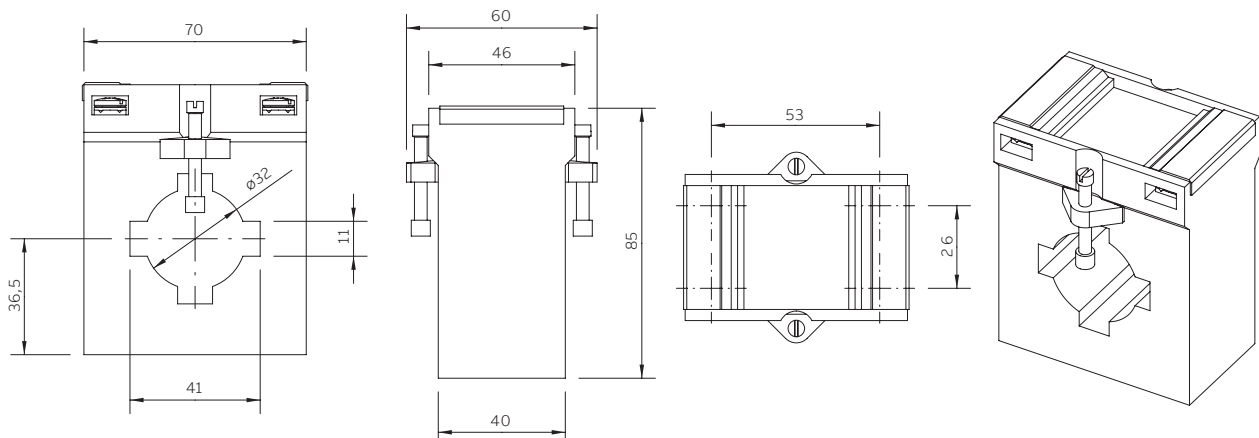
CEWE QB 48 maximum demand A-meters



Current transformer XRG 00/1

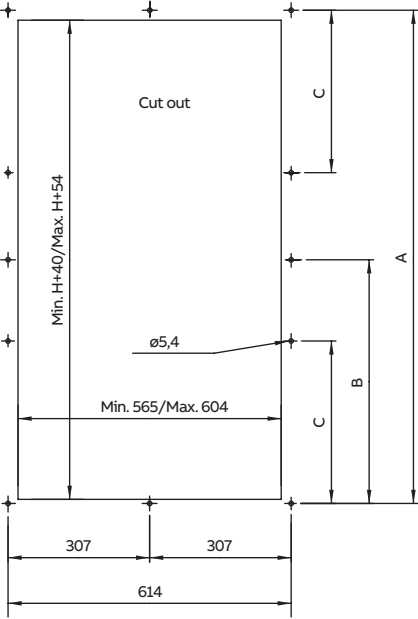


Current transformer XRG 2/3

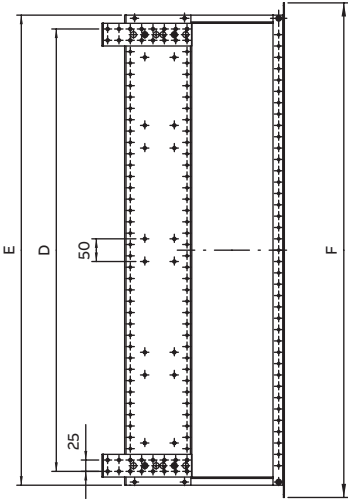


Accessories

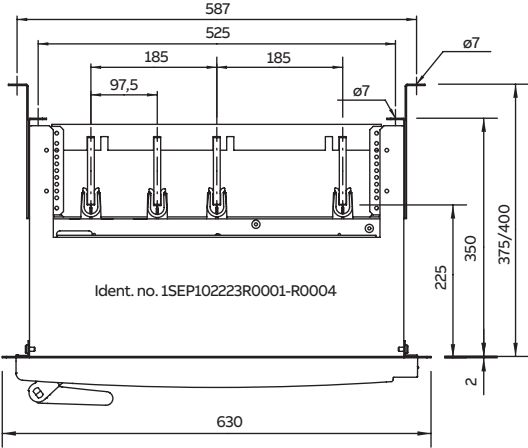
Cassette



Front view



Side view



Top view (busbar distance = 185 mm)

H	A	B	C	D	E	F
500	574	-	-	475	536	590
1000	1074	-	358	975	1036	1090
1500	1574	-	525	1475	1536	1590
2000	2074	1037	520	1975	2036	2090





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