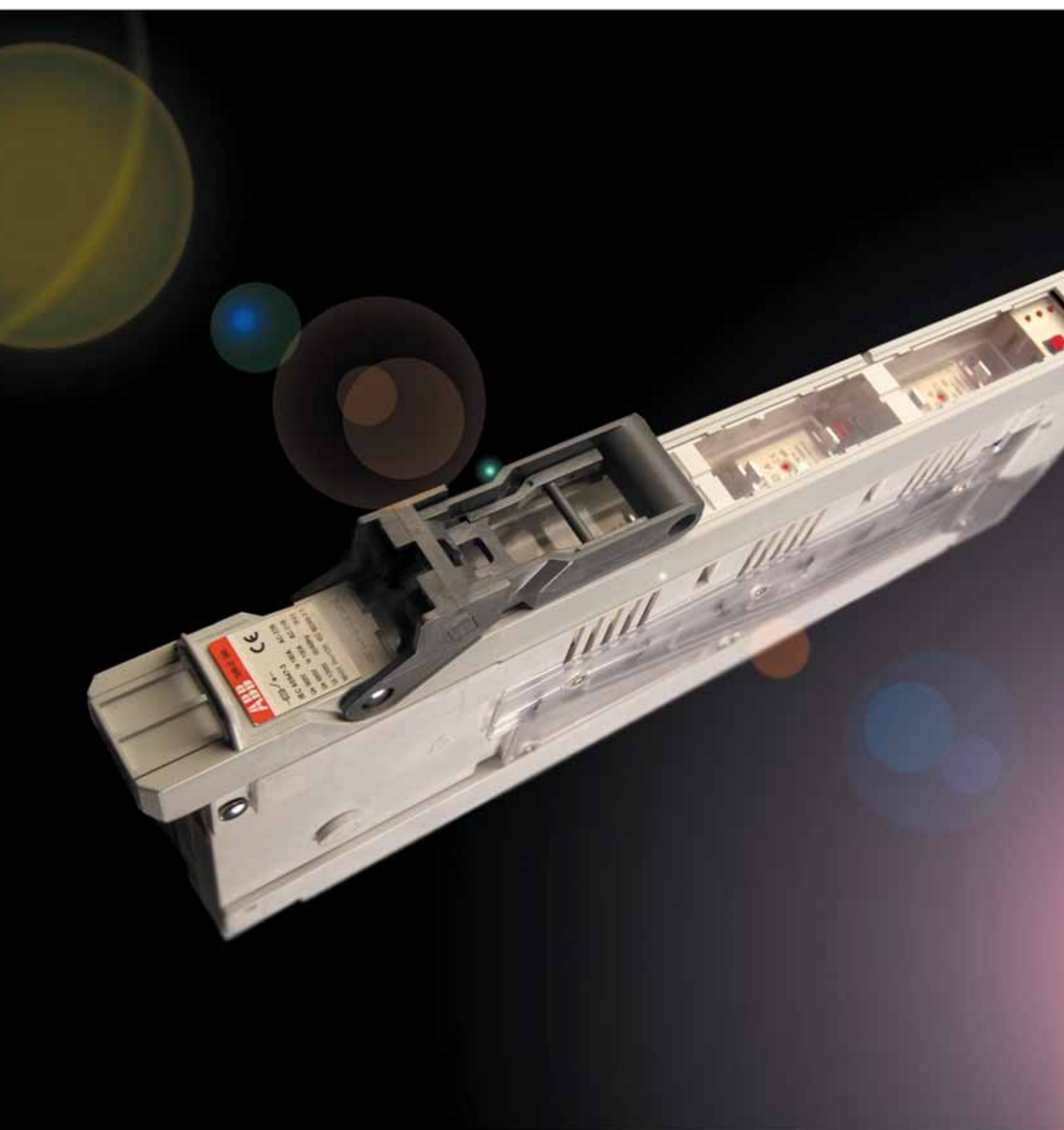


Switch Disconnecter Fuse, SR 63-630 A

SlimLine







Contents

Fuse Protection

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SlimLine

1. Fuse Protection

Fuse protection – Easy and reliable

The fuse is a superior short circuit protection element regarding the maximum allowed cut-off current (peak let through current) and energy value. This is more important the higher the voltage and prospective fault levels are. The SlimLine switch fuses fulfil the highest requirements for modern switch fuses with a total safety concept. The switch fuses are tested according to the EN 60947-3 standard with more stringent requirements for isolation, making, performance and safety.

The melting curves and current limiting diagrams for NH fuse links are given in the IEC 269-2 standard. The standardised fuse characteristics and high degree of current limitation ensure that there is a simple and effective coordination with fuse links and other devices.

Fuse links provide a simple procedure for selecting the right fuse type for your installation, without complicated calculations or calculation tools. Fuses prevent "blackouts". Only the fuse nearest a fault trips without upstreams fuses (feeders or mins) being affected. Fuses thus provide selective coordination. When more power is needed in an installation, more feeders can be added without changing the present structure or any new selectivity calculations. Fuse links will assure selectivity in the installation by 1,6:1 difference in the rated current.

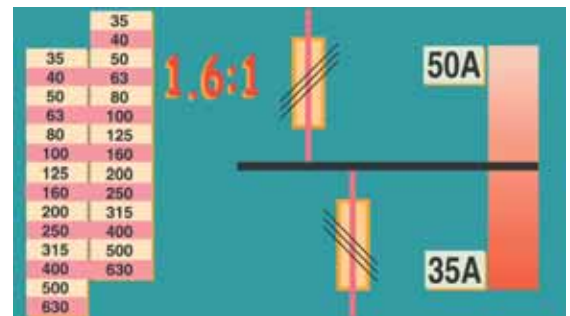
Economical installation

Lifetime costs of fuse systems are low. Fuse links which can withstand a high fault level and a fault current, are available at economical prices. After fuse operation, only the fuse link has to be changed. Because the fuse links can be rapidly and easily replaced, plant down time and maintenance are substantially reduced with a fuse link system.

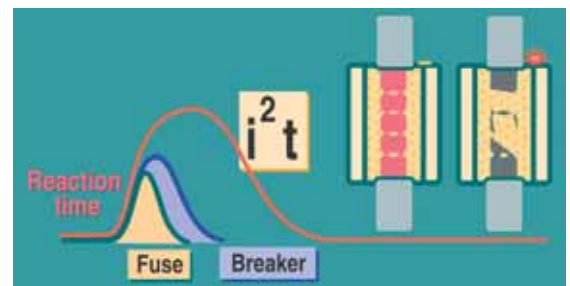
Because the fusing elements operate in a cylinder, they are not affected by their surroundings. Thus their protecting characteristics remain stable year after year. The dynamic stress on the network and its equipment is dependent of the let through energy (i^2t) at a short circuit. The fuse link provides the best protection compared to other solutions, at high short circuit currents. As the fuse link body is filled with quartz sand, there will be no emission of gases or arcs when a short circuit occurs. This again leads to less stress on the network and a higher degree of personal safety.

Fuse protection – Easy and reliable

- Economical installation
- Easy and economical selectivity
- No need for calculation tools
- No need to change the present structure when more power is needed
- No moving parts
- No extra operation time
- No arc space
- No emission of gasses at short circuits



No need for calculation tools
- Easy and economical selectivity



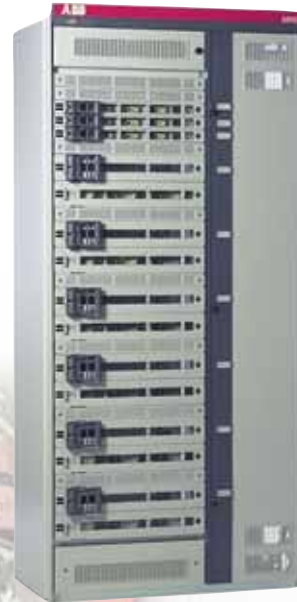
No moving parts
- No extra operation time

SlimLine

2. General

Areas of applications

- Motor control centers
- Distribution boards
 - in building industry, shipping and oil and gas.



SlimLine

2. General

Approvals:



LLOYD'S



Germanischer Lloyd

Properties

- Type tested in accordance with IEC EN 60947/3
- 160 A – 630 A for DIN NH HRC fuse links, in accordance with DIN VDE 0636 part 21 and 22, IEC 269-1/EN60269-1
- 63 A to 630 A for BS fuse links
- 3 pole, 4 pole AC- and 2 pole DC version
- Developed for plug-in switchboard systems
- Horizontal or vertical installation
- Front cover interlocked in "ON" position
- IP 41 degree of protection from the front
- Intelligent Tier Switch (ITS) for remote monitoring
- Maintenance free
- High degree of personal safety
- Modular design
- Cable termination for cable lugs or cable clamps
- Various depths
- Plug in / out under voltage
- Available with Electronic Fuse Monitoring (EFM)

Advantages

- Compact design → space saving → total cost saving
- Easy and fast to install
- Low powerlosses → high loading capacity
- Wide range of accessories
- True indication of switch position

SlimLine

3. Apparatus

Compact design

The compact design of SlimLine offers space saving solutions for the end user. This results in a cost attractive switchboard system for a number of applications.

NH DIN version:

SR-00 160A

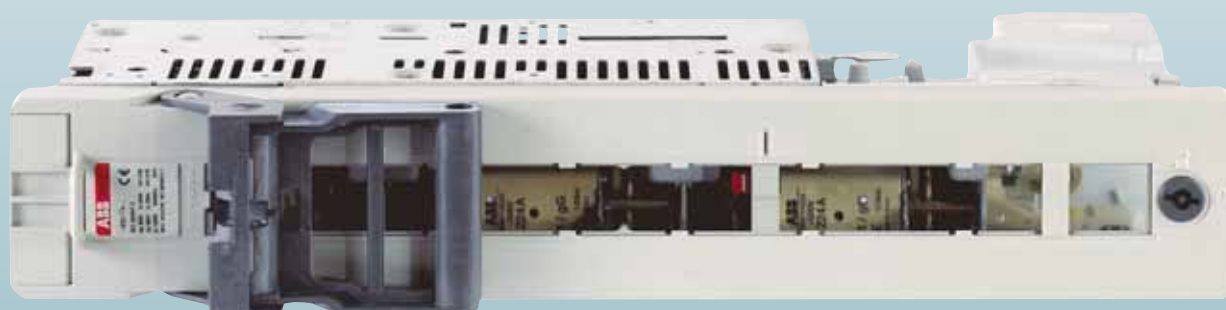


BS88 version:

SR-M 63A, 100A, 160A

SR-1 250A

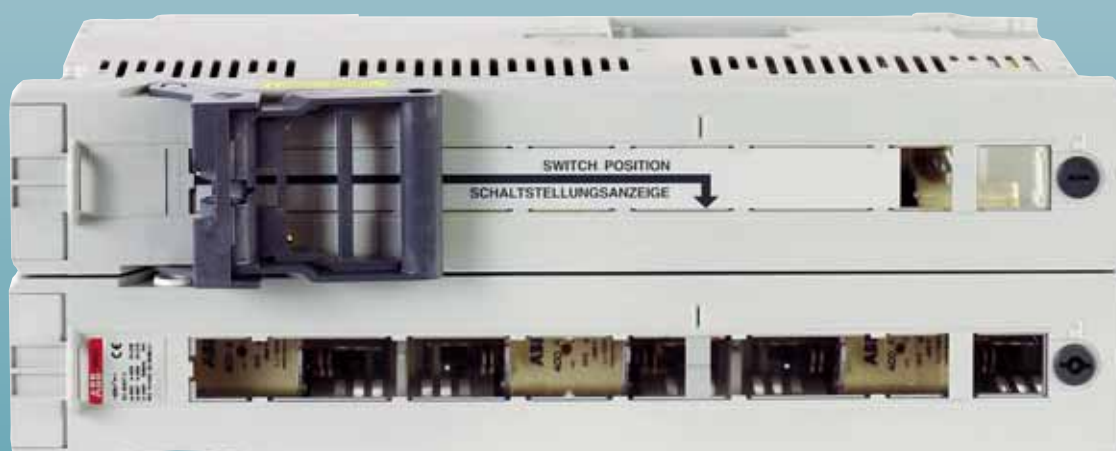
SR-M 200A



SR-2 400A

SR-M 400A, 630A

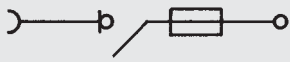
SR-3 630A



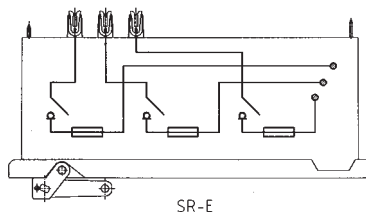
SlimLine

3. Apparatus

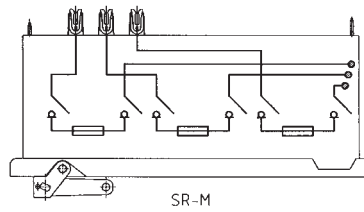
Available SR versions



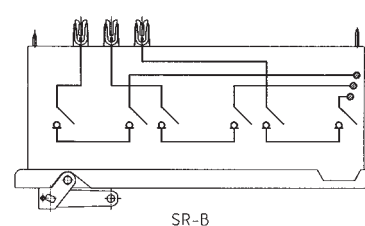
SR-E
Switch-fuse-disconnector with operating mechanism.
DIN: Size 00, 1, 2, 3
AC 22 B, 500 V
AC 21 B, 690 V



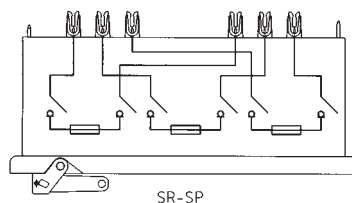

SR-M
Switch-fuse-disconnector with operating mechanism. Interruption on both sides in the fuses.
DIN: Size 00, 1, 2, 3
BS 88: 63 A, 100 A, 160 A, 200 A, 400 A and 630 A
AC 23 B, 690 V
DC 22 B, 230 V



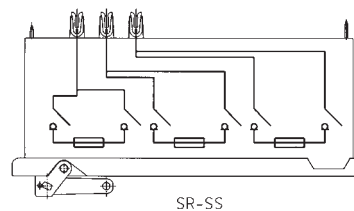

SR-B
Switch-disconnector/load break switch with operating mechanism.
Size 00, 1, 2, 3,
AC 23 B, 690 V




SR-SP
Busbar section switch with operating mechanism for use between two busbar systems in parallel
DIN: Size 3
AC 23 B, 690 V



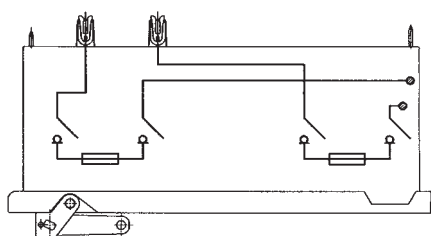

SR-SS
Busbar section with operating mechanism for use between two busbar systems in series.
DIN: Size 3
AC 23 B, 690 V



4 Pole AC version



- The 4th pole neutral switch (N) is located at the top of an SR-M 3-pole unit.
- The neutral switch is fully rated.
- The neutral switch is switched "First in" and "Last out".
- Common cable shroud for the 4th pole (N) for all sizes.



2 Pole DC version

- The SR-M DC is rated up to 500 V DC.

SlimLine

3. Apparatus

Busbar systems

Plug-in contacts - Fast, easy and safe

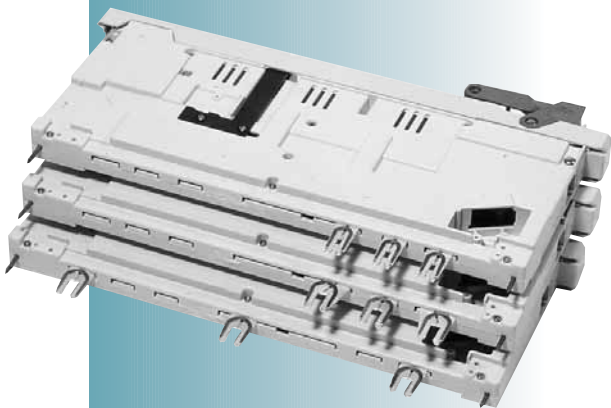
Years of experience and development are put into the plug-in contacts used in the SR. Basis for the technology is that the current does not float evenly in the contact point, but in small spots within the apparent contact point. These spots are named "effective contact areas". A spring loaded contact achieves a high contact force. This again leads to a high "effective contact" area. The design of the contact will increase the closing force if a short circuit appears. The use of plug-in contacts on distribution busbars means easier and faster installation. Contacts in electrical switchboards are often dependent of the correct torque on the bolts/nuts. These contacts are also often difficult to get access to after installation of the switchboard. This problem is eliminated with the spring loaded contacts used in SlimLine.

All SR versions are available for 3 busbar phase distances

50 mm	Distance between phases 5 mm busbar
60 mm	Distance between phases 10 mm busbar
185 mm	Distance between phases 10 mm busbar

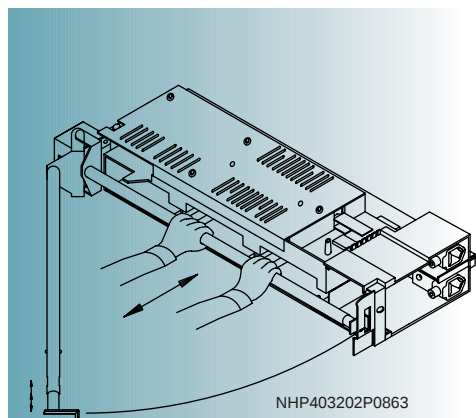
Installation

1. Slide the SlimLine apparatus into the panel until the guide pins fits into the rear profiles and the plug-in contact are connected to the busbars. (Guide rails are not necessary, but can be delivered as accessory).
2. The SlimLine apparatus is fixed by use of two self-tapping screws in the front profiles. No special tool is required.



SlimLine

3. Apparatus



Plug in/out on live busbars

The SlimLine apparatus can be replaced under voltage according to IEC EN 61140 "Protection against electrical shock, chapter 8 "Special operating and servicing conditions" under the following conditions :

1. The replacement is carried out by skilled or instructed persons
2. The switch-fuse-disconnector is in OFF position
3. The main and auxiliary cables are disconnected
4. The switch-fuse-disconnector to be replaced is either supported by stacking the apparatus on each other or it is supported by the SR guide rails.
5. The SR-replacement tool is being used



Operation

The SR is operated by moving the operation handle sideways, approx. 90°. The handle can be folded in both "On" and "Off" position. The true on/off position is shown by the switch indicator in front.



Service and maintenance

When installing the SR switch fuse the unit is prepared for a lifetime in operation. Plug in contacts are greased, the same goes for the operating mechanism. Extensive mechanical operation tests are performed ensuring the quality of internal parts. All internal connections are made of silver plated copper. After some years the silver will take on a darker colour, but this will not diminish the current capacity of the unit.



On periodical services, every 3-5 years, we recommend that the unit is operated a few times to re-grease the operating mechanism. If there is a need of cleaning the switchboard we recommend that pressurised air is used or weak soap water. Do not use alcohol or spirits as it can cause discolouring of the plastic components or weaken it. If by some reason the unit is taken out of the switchboards and put into service in other location, the plug in contacts are to be greased with lubricant Isoflex Topaz NCA52 or equivalent.



Voltage testing

In the case of voltage testing directly on the live fuses the interlocked front cover may be defeated by pressing a sharp device into the gap shown, and pressing downwards.

Note! Before closing the front cover, the operating handle has to be moved to ON position

SlimLine

3. Apparatus

Cable termination

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

Size 00 160A



Cable lug connection



Cable clamp connection

Size 1 250A



Cable lug connection

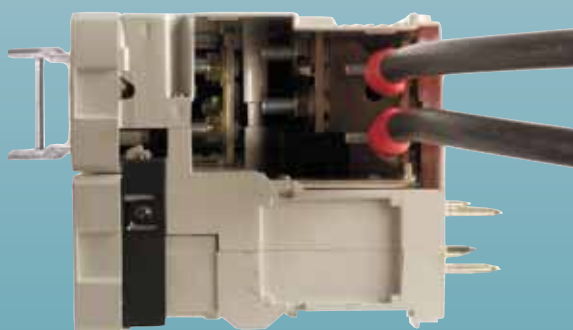


Cable clamp connection

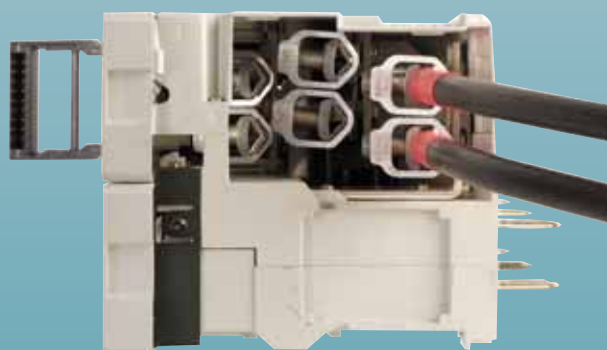


Double cable clamp connection

Size 2/3 400A / 630A



Cable lug connection

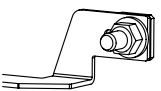
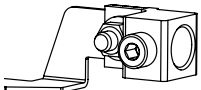
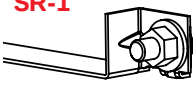
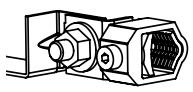
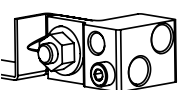
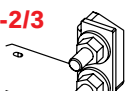
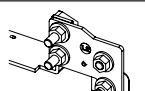
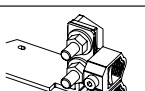
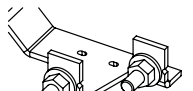
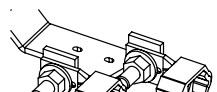


Double cable clamp connection

SlimLine

3. Apparatus

Cable termination overview

Size	Bolt / Clamp	Rm / Sm mm ²	Torque	For number of poles	Order code
SR-00  1SEB000077	M8	– 95	15 Nm	2 / 3 / 4	Integrated standard
 1SEB000077	Single Clamp	2,5-95 ¹⁾	15 Nm	2 / 3	1SEP408203R0001
				4	1SEP408203R0002
SR-1  1SEB000078	M12	– 240	25 / 30 Nm	2 / 3 / 4	Integrated as standard
 1SEB000078	Single clamp	95-240	25 Nm	2 / 3	1SEP408204R0001
				4	1SEP408204R0002
 1SEB000078	Double clamp	2 x 2,5-95 ¹⁾	15 Nm	2 / 3	1SEP408205R0001
				4	1SEP408205R0002
SR-2/3  1SEB000080	M12	2 x -185	30 Nm	2 / 3	Integrated as standard
 1SEB000080	M12 Link ²⁾	2 x -240	30 Nm	3	1SEP304277R0001
 1SEB000080	Double clamp	2 x 95-240	25 Nm	2 / 3	NHP 406124R0002
 1SEB000079	M12	2 x -185	30 Nm	4	Integrated as standard
 1SEB000079	Double clamp	2 x 95-240	25 Nm	4	NHP 406124R0002

Note! Cable clamps can be fitted as accessories for all sizes.

1) For 2,5–10 mm² cables, an end sleeve must be used.

2) SR size 2/3 is prepared for cable connection of 2 x 240 mm² copper cable lugs (according to DIN46235 with 13mm holes) by using a set of links to be fixed at terminal L2. (Terminal L1 and L3 are already prepared).

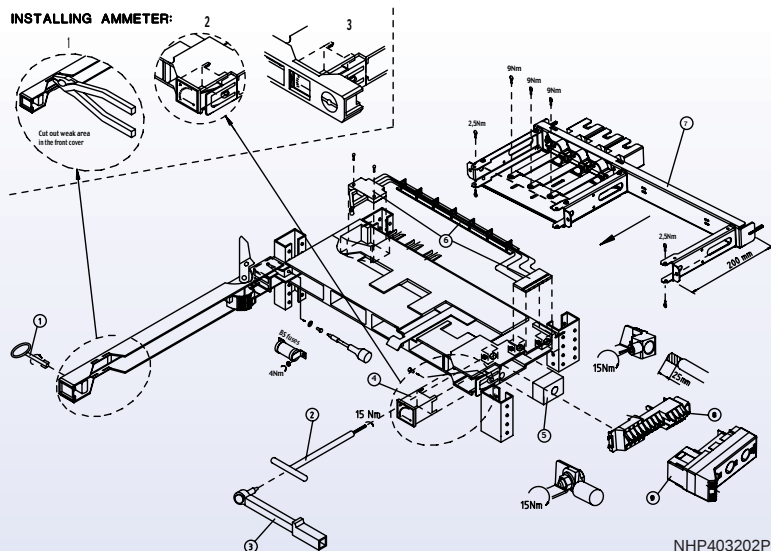
SlimLine

4. Accessories

Assembly SR-00, 160 A

DESCRIPTION

- 1 Front cover key
- 2 Cable terminal key
- 3 Cable terminal torque key
- 4 Ammeter
- 5 Current transformer
- 6 Auxiliary switch
- 7 Contact extension
- 8 Cable terminal shroud
- 9 3 Phase current transformer

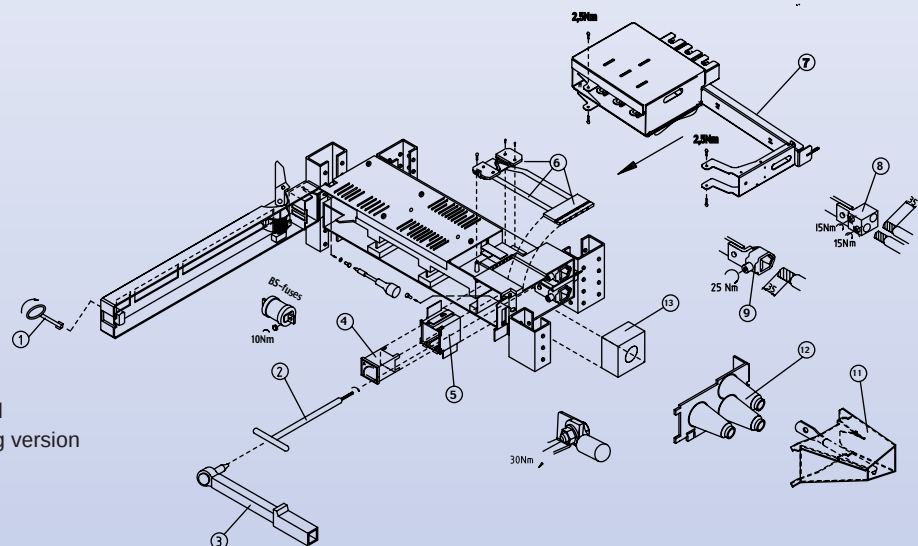


NHP403202P0862

Assembly SR-1, 250 A

DESCRIPTION

- 1 Front cover key
- 2 Cable terminal key
- 3 Cable terminal torque key
- 4 Ammeter
- 5 Ammeter bracket
- 6 Auxiliary switch
- 7 Contact extension
- 8 Double cable clamp
- 9 Single cable clamp
- 10 Replacement tool
- 11 Cable terminal shroud: Universal
- 12 Cable terminal shroud: Cable lug version
- 13 Current transformer

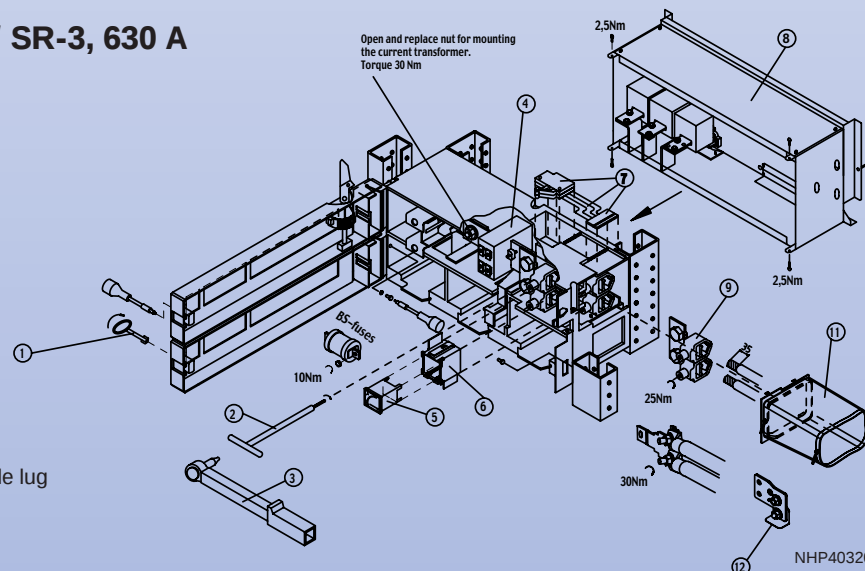


NHP403202P0863

Assembly SR-2, 400 A / SR-3, 630 A

DESCRIPTION

- 1 Front cover key
- 2 Cable terminal key
- 3 Cable terminal torque key
- 4 Current transformer
- 5 Ammeter
- 6 Ammeter bracket
- 7 Auxiliary switch
- 8 Contact extensions
- 9 Double cable clamp
- 10 Replacement tool
- 11 Cable terminal shroud
- 12 Cu-extension for 2x240 mm² cable lug



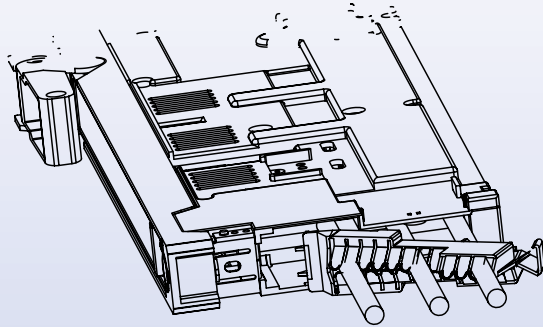
NHP403202P0864

SlimLine

4. Accessories

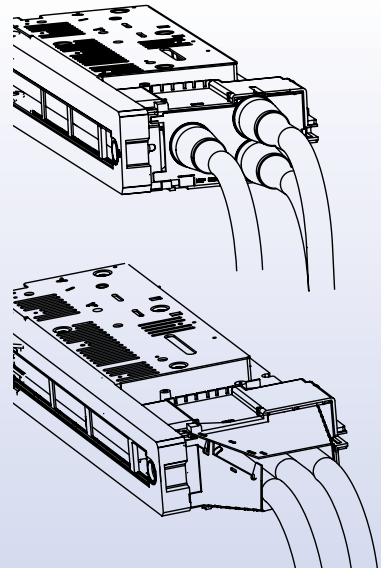
Cable termination shrouds

SR 00



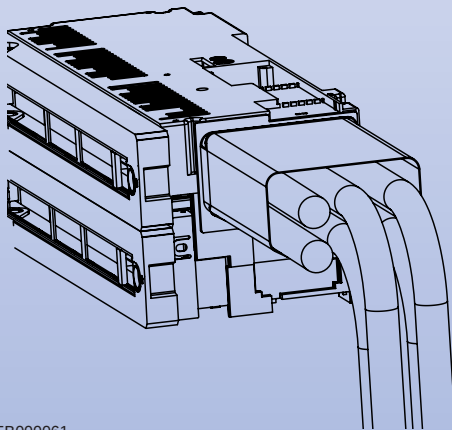
1SEB000058

SR 1



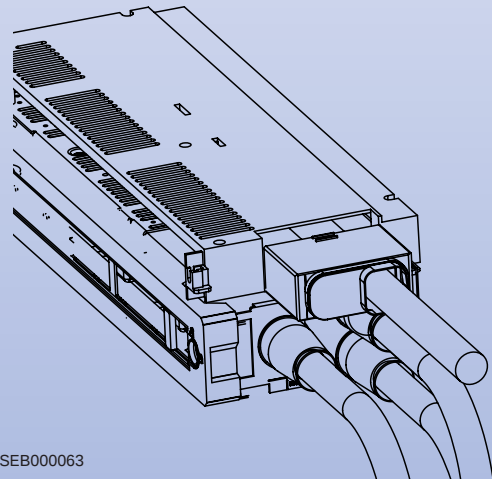
1SEB000060

SR 2 and 3



1SEB000061

SR 00-3 4-pole



1SEB000063



Current metering

Ammeter

Ammeter DIN 48x48 bimetal type CEWE QB48 with maximum indication may be fitted into each SR.

For size 1, 2 and 3 an additional ammeter bracket is required.

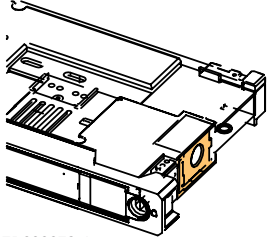
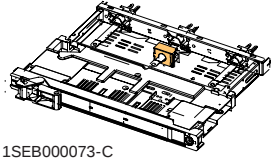
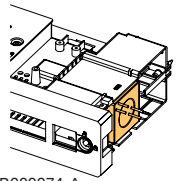
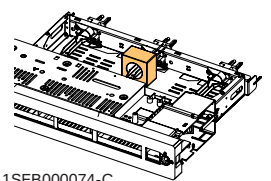
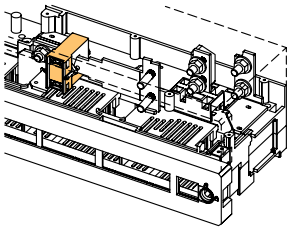
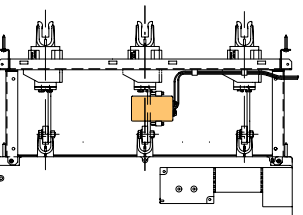
Current transformer

In all the SR's it is possible to install current transformers for 1 or 3 phases. The CT's may be installed in the cable termination of the apparatus or in the contact extension.

SlimLine

4. Accessories

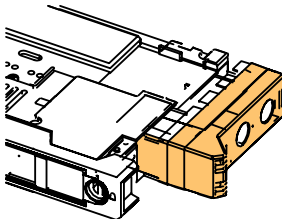
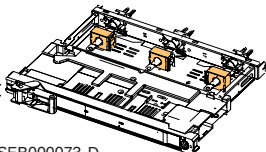
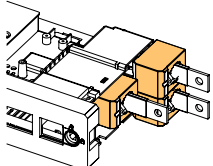
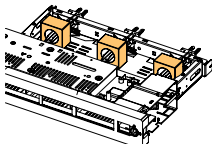
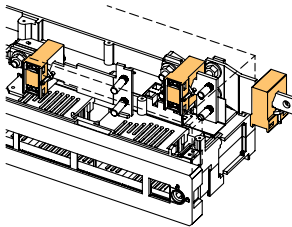
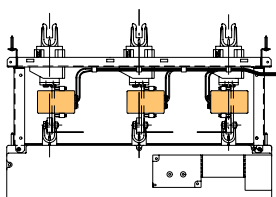
Current transformer for SlimLine, 1 phase CT's

	Order code	MBS type	Units per order code	Class	VA	Rating	
 1SEB000073-A	SR-00						
	NHSN718042P1015	ASR 201.3	1	1	3,75	150 / 1	With clamps
	NHSN718042P5015	ASR 201.3	1	1	3,75	150 / 5	With clamps
	NHSN718043P1015	ASG 210.3	1	1	3,75	150 / 1	With cables = 300 mm
	NHSN718043P5015	ASG 210.3	1	1	3,75	150 / 5	With cables = 300 mm
 1SEB000073-C	For SR-00 contact extension:						
	NHSN718042P1015	ASR 201.3	1	1	3,75	150 / 1	With clamps
	NHSN718042P5015	ASR 201.3	1	1	3,75	150 / 5	With clamps
 1SEB000074-A	SR-1						
	NHSN718044P1025	ASR 42.45	1	1	7,5	250 / 1	With cables = 300 mm
	NHSN718044P5025	ASR 42.45	1	1	7,5	250 / 5	With cables = 300 mm
 1SEB000074-C	For SR-1 contact extension :						
	NHSN718044P1025	ASR 42.45	1	1	7,5	250 / 1	With cables = 300 mm
	NHSN718044P5025	ASR 42.45	1	1	7,5	250 / 5	With cables = 300 mm
 1SEB000075-A	SR-2						
	NHSN718045P1040	ASK 31.3	1	1	10	400 / 1	With clamps
	NHSN718045P5040	ASK 31.3	1	1	10	400 / 5	With clamps
	NHSN718046P1040	ASK 31.3	1	0,5	5	400 / 1	With clamps
	NHSN718046P5040	ASK 31.3	1	0,5	5	400 / 5	With clamps
	SR-3						
	NHSN718045P1060	ASK 31.3	1	1	10	600 / 1	With clamps
	NHSN718045P5060	ASK 31.3	1	1	10	600 / 5	With clamps
	NHSN718046P1060	ASK 31.3	1	0,5	5	600 / 1	With clamps
	NHSN718046P5060	ASK 31.3	1	0,5	5	600 / 5	With clamps
 1SEB000075-C	For SR-2 contact extension:						
	NHSN718047P1030	ASK 41.4	1	1	10	300 / 1	With clamps
	NHSN718047P1040	ASK 41.4	1	1	10	400 / 1	With clamps
	NHSN718047P5030	ASK 41.4	1	1	10	300 / 5	With clamps
	NHSN718047P5040	ASK 41.4	1	1	10	400 / 5	With clamps
	For SR-3 contact extension:						
	NHSN718047P1050	ASK 41.4	1	1	10	500 / 1	With clamps
	NHSN718047P1060	ASK 41.4	1	1	10	600 / 1	With clamps
	NHSN718047P5050	ASK 41.4	1	1	10	500 / 5	With clamps
	NHSN718047P5060	ASK 41.4	1	1	10	600 / 5	With clamps

SlimLine

4. Accessories

Current transformer for SlimLine, 3 phase CT's

	Order code	MBS type	Units per order code	Class	VA	Rating	
 1SEB000073-B	SR-00						
	1SEP304462R0001	ASRD 210.3	1	1	1	50/1	With clamps
	1SEP304462R0002	ASRD 210.3	1	1	1	50/5	With clamps
	1SEP304462R0003	ASRD 210.3	1	1	1,5	100/1	With clamps
	1SEP304462R0004	ASRD 210.3	1	1	1,5	100/5	With clamps
	1SEP304462R0005	ASRD 210.3	1	1	2,5	150 / 1	With clamps
	1SEP304462R0006	ASRD 210.3	1	1	2,5	150 / 5	With clamps
	1SEP304462R0013	ASRD 210.3	1	0,5	1,5	100/1	With clamps
	1SEP304462R0014	ASRD 210.3	1	0,5	1,5	100/5	With clamps
	1SEP304462R0015	ASRD 210.3	1	0,5	2,5	150 / 1	With clamps
	1SEP304462R0016	ASRD 210.3	1	0,5	2,5	150 / 5	With clamps
 1SEB000073-D	For SR-00 contact extension:						
	NHSN718042P1015	ASR 201.3	1	1	3,75	150 / 1	With clamps
	NHSN718042P5015	ASR 201.3	1	1	3,75	150 / 5	With clamps
 1SEB000074-B	SR-1						
	1SEP408073R0001	Kit of Cu ext.bars for 3 phase CT's (3xASK 231.5)					
	NHSN718048P1025	ASK 231.5	1	1	5	250 / 1	With clamps
	NHSN718048P5025	ASK 231.5	1	1	5	250 / 5	With clamps
	NHSN718049P1025	ASK 231.5	1	0,5	5	250 / 1	With clamps
 1SEB000074-D	For SR-1 contact extension:						
	NHSN718044P1025	ASR 42.45	1	1	7,5	250 / 1	With cables = 300 mm
	NHSN718044P5025	ASR 42.45	1	1	7,5	250 / 5	With cables = 300 mm
 1SEB000075-B	SR-2						
	1SEP407988R0001	Kit of Cu ext.bars for 3 phase CT's (3xASK 31.3)					
	NHSN718045P1040	ASK 31.3	1	1	10	400 / 1	With clamps
	NHSN718045P5040	ASK 31.3	1	1	10	400 / 5	With clamps
	NHSN718046P1040	ASK 31.3	1	0,5	5	400 / 1	With clamps
	NHSN718046P5040	ASK 31.3	1	0,5	5	400 / 5	With clamps
	SR-3						
	NHSN718045P1060	ASK 31.3	1	1	10	600 / 1	With clamps
	NHSN718045P5060	ASK 31.3	1	1	10	600 / 5	With clamps
	NHSN718046P1060	ASK 31.3	1	0,5	5	600 / 1	With clamps
	NHSN718046P5060	ASK 31.3	1	0,5	5	600 / 5	With clamps
 1SEB000075-D	For SR-2 contact extension :						
	NHSN718047P1030	ASK 41.4	1	1	10	300 / 1	With clamps
	NHSN718047P1040	ASK 41.4	1	1	10	400 / 1	With clamps
	NHSN718047P5030	ASK 41.4	1	1	10	300 / 5	With clamps
	NHSN718047P5040	ASK 41.4	1	1	10	400 / 5	With clamps
	For SR-3 contact extension :						
	NHSN718047P1050	ASK 41.4	1	1	10	500 / 1	With clamps
	NHSN718047P1060	ASK 41.4	1	1	10	600 / 1	With clamps
	NHSN718047P5050	ASK 41.4	1	1	10	500 / 5	With clamps
	NHSN718047P5060	ASK 41.4	1	1	10	600 / 5	With clamp

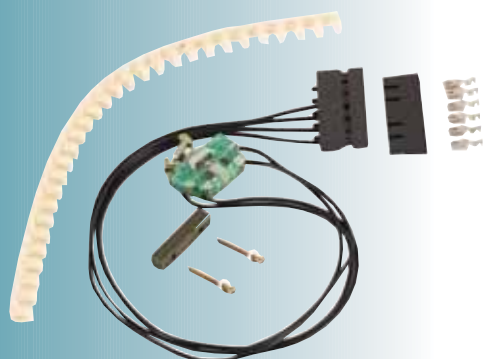
SlimLine

5. System accessories

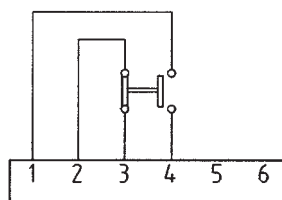
Auxiliary contact

1NO+1NC or 2NO+2NC is available as complete kit for installation in the SR.

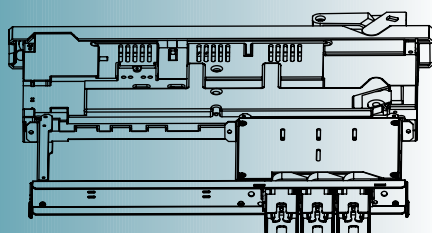
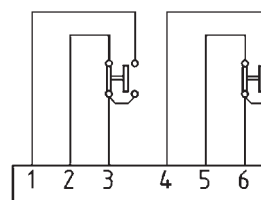
Ith 10A at 400V



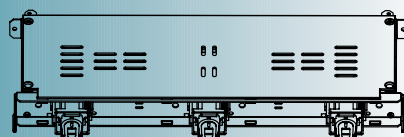
1 NO + 1 NC



2 NO + 2 NC



1SEB000064-A



1SEB000065-A

Contact extension

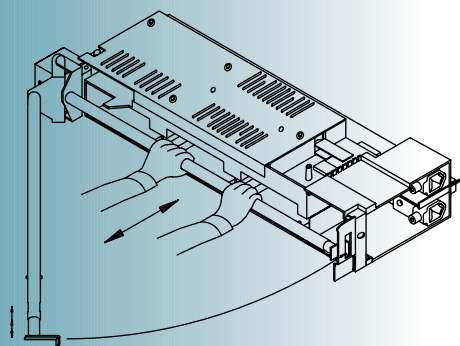
The contact extension is an adapter to be used in special applications when the total depth from the front to the busbars is 400 mm. (ex. motor control centres).

Standard depth of an SR apparatus is 200 mm.

Contact extension is available for 50 mm and 185 mm busbar distances.

Replacement tool

The replacement tool is specially designed for plugging/ replugging the SR apparatus to live busbars in the switch-board. By removing the standard SR front cover, the replacement tool can be connected in the front of the SR-apparatus. The replacement tool fits all the SR sizes.



NHP403202P0863

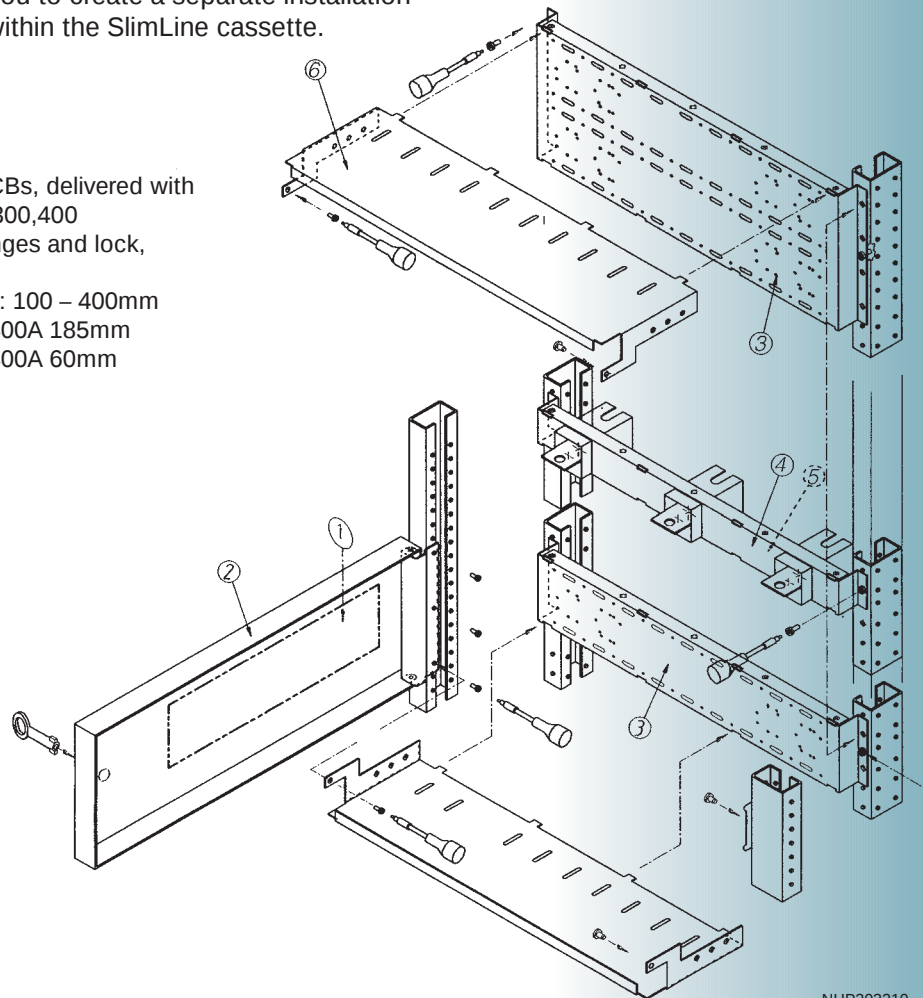
SlimLine

5. System accessories

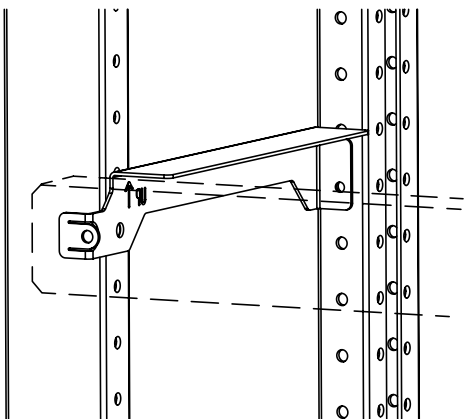
Service module

The service module allows you to create a separate installation e.g. contactors, MCBs etc. within the SlimLine cassette.

1. Front door w/cut outs for MCBs, delivered with hinges and lock H: 100,200,300,400
2. Front door, delivered with hinges and lock, H: 100 – 400mm
3. Assembly plate, predrilled, H: 100 – 400mm
4. Busbar connection module 400A 185mm
5. Busbar connection module 400A 60mm
6. Segregation plates 2 pcs



Guide rails



The guide rails may be permanently fixed in the cubicle or may be used as an installation tool. (The drawing is showing the 50 mm blind cover fixed in the front.)

Ventilated blind cover



The blind cover is 50 mm high. The ventilation ribs give an IP41 protection degree.

SlimLine

5. System accessories

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 185mm busbar distances

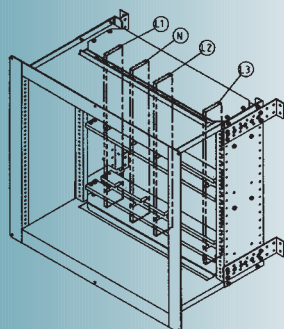
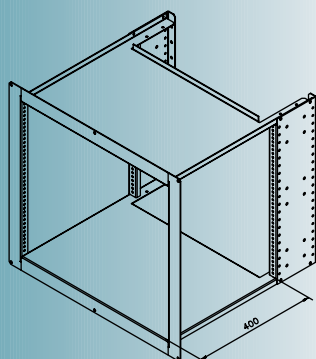
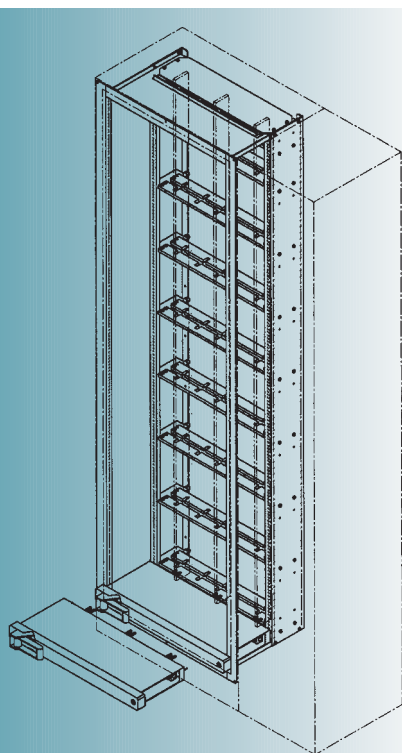
IP 20 busbar cover kit

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

Kit for 400 mm depth

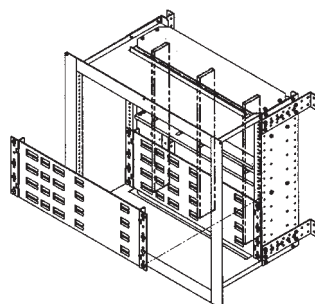
In order to extend the normal depth of 200 mm in a standard cassette to 400 mm, a special 400 mm extra top and bottom unit is available for replacing the standard top and bottom units. 2 units are required for replacement in one cassette.

Order code 1SEP102079P0001 for 1 unit.



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

H = 500 mm	NHP 101604 R1
H = 1000 mm	NHP 101604 R2
H = 1500 mm	NHP 101604 R3
H = 2000 mm	NHP 101604 R4



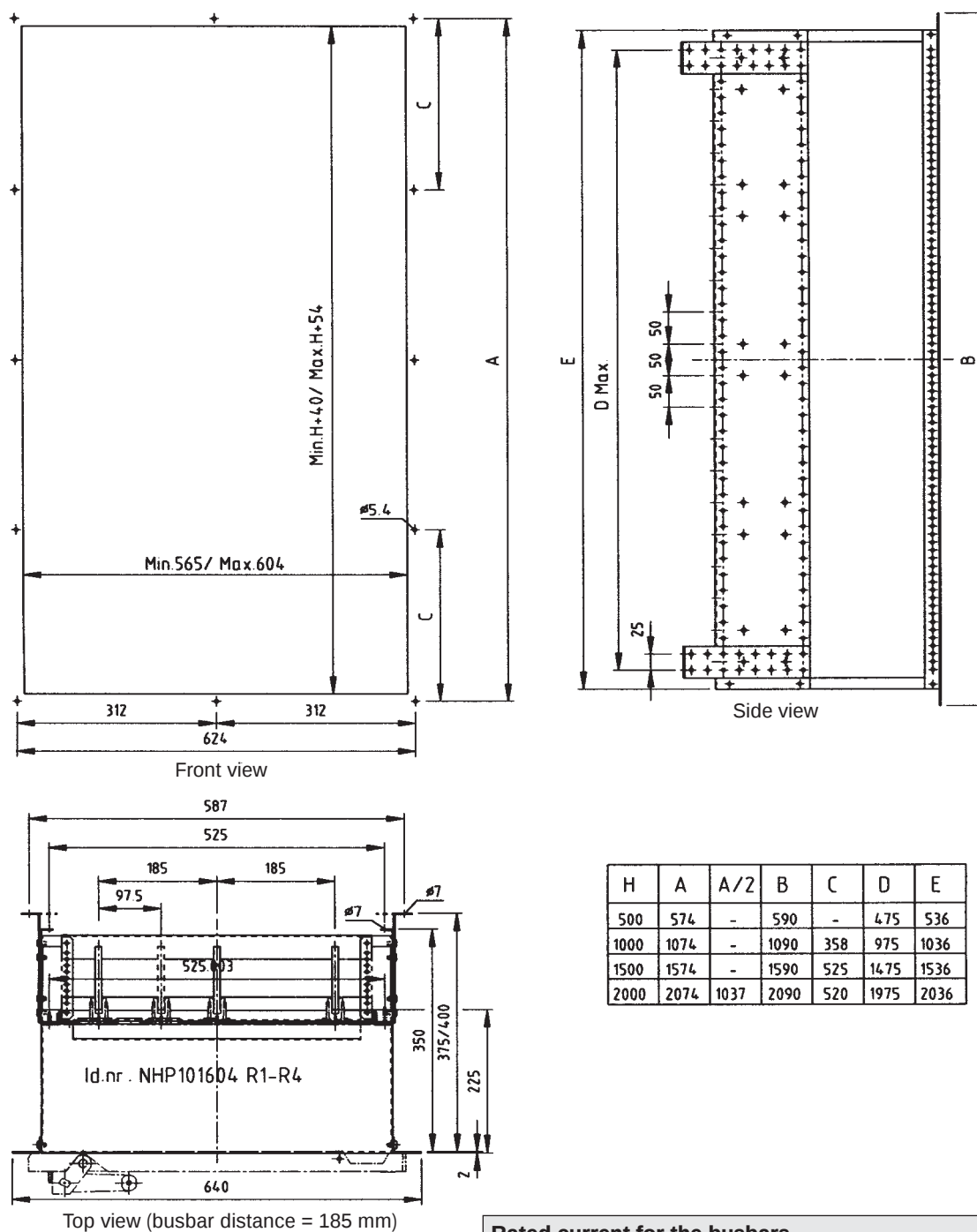
IP 20 busbar cover kit
Universal 3- and 4-pole, 185 mm

Kit for:	H = 500 mm	NHP 407062 R1
	H = 1000 mm	NHP 407062 R2
	H = 1500 mm	NHP 407062 R3
	H = 2000 mm	NHP 407062 R4

SlimLine

5. System accessories

SlimLine cassette



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

5. System accessories

Electronic fuse monitoring (EFM)

The EFM controls and monitors the state of all fuses. Condition of the individual fuse is monitored on LED indicators visible from front of the SR. The EFM is available for both AC- and DC versions. The SR's are linked together and connected to a control relay, MC50. Power supply for the EFM is integrated in the control relay.

The MC50 can supply and monitor 50 SR's with EFM when powered with 12V DC. The unit can supply 35 units when it is powered with 230V AC. When utilising the MC50 the SR's are connected as shown on the following page. The relay output of the MC50 will be activated if one or more of the fuses in the group of switches is removed or blown. The MC50 will give a common fault signal and will not identify where the fuse is blown. Fault has to be identified locally and system will automatically reset when replacement fuse is inserted.

A "High End" controller is also available. The unit can monitor 16 SR's and give an individual output for each fuse status.

The electronic fuse monitoring is EMC tested in accordance with the following standards:

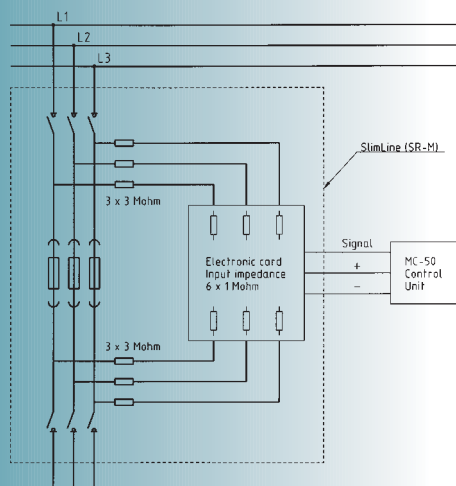
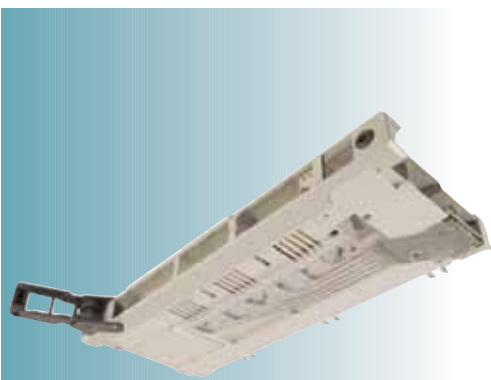
EN50081-1: 1992 Electromagnetic compability – Generic emission standard for residential, commercial and light industry.

EN50082-2 : 1995 Electromagnetic compability – Generic immunity standard, industrial environment.

EN50130-4 : 1996 Alarm systems - Part 4: Electromagnetic compability.

Advantages:

- Local- and remote monitoring
- Local indication for each fuse
- Test function (Red LED)
- Indication of operation (Green LED)



MC 50

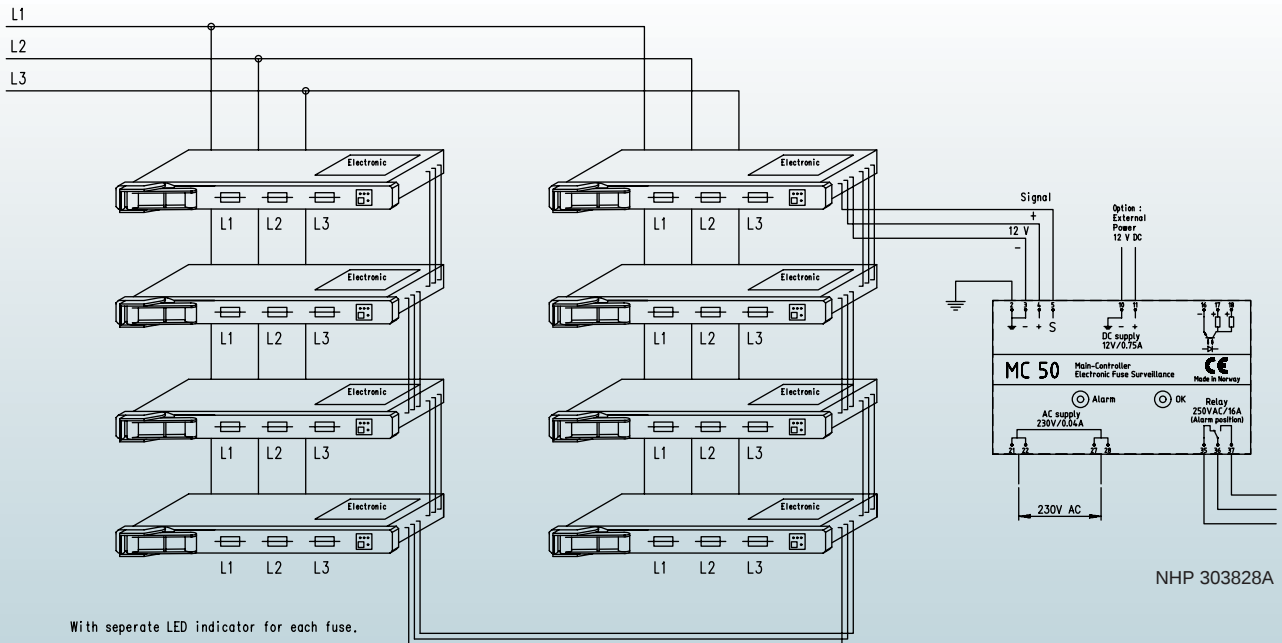


SlimLine

5. System accessories

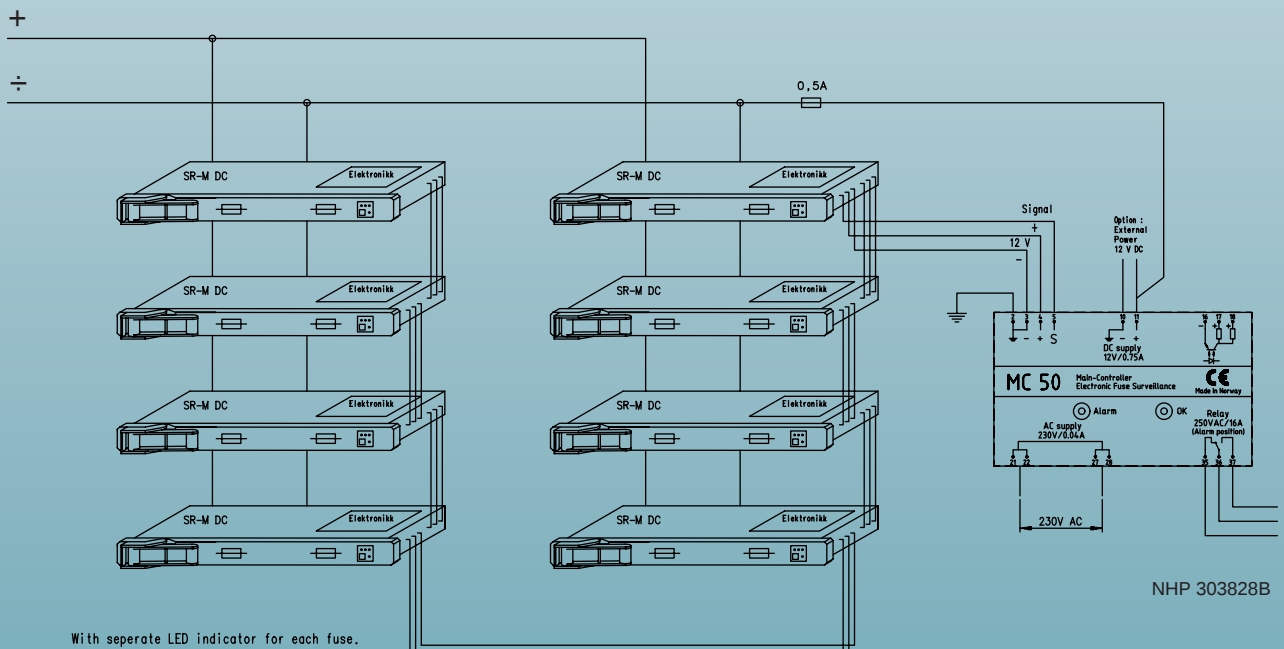
AC wiring diagram

AC concept / wiring diagram



DC wiring diagram

DC concept / wiring diagram



L1 Indicates blown fuse in phase L1 (+)
L2 not in use
L3 Indicates blown fuse in phase L3 (-)

- An ohmic load on the secondary side of the switch is needed to get indication in phase L3 (-)
- Minimum operation voltage at the busbars is 20 V DC

SlimLine

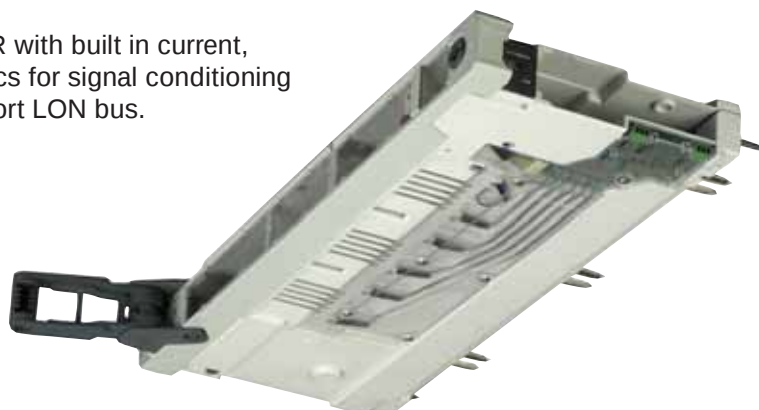
6. Intelligent Tier Switch (ITS)

ITS

SlimLine ITS (Intelligent Tier Switch) is a SR with built in current, voltage and temperature sensors. Electronics for signal conditioning and fieldbus interface is integrated to support LON bus.

The ITS measures the following:

- Current pr. phase
- Voltage
- Power
- Power consumption (kWh)
- Power factor
- Temperature



The ITS monitor the following:

- Fuse status
- Switch position

Based on these data the ITS gives alarms if fuses are blown or temperature or current exceeds your configured thresholds (over current).

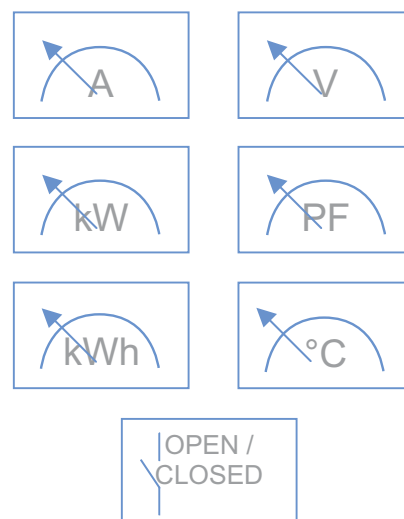
Fieldbus support to ITS:

The fieldbus supported is LonWorks with LonMark compatible network variables. The physical layer is FTT10.

How to interface the ITS:

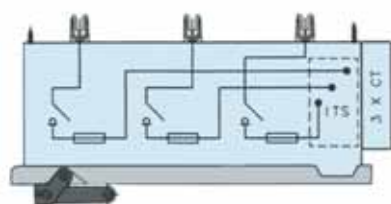
Use off-the-shelf hardware and software such as the iLon from Echelon, Internet Explorer from Microsoft and Palmy from MAC S.R.L.

- For a local application use the Palmy and a LCL104 (if relay signals are wanted).



The local application:

Daisy chain the ITS using prefabricated cables. Connect power at one point. Connect the Palmy and install the ITS using straightforward menus.

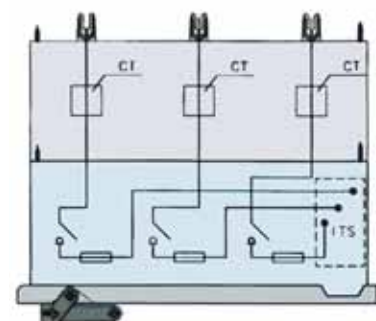


SlimLine ITS, depth 200 or 400 mm:

The SR-E ITS and SR-M BS ITS apparatuses are available in two alternative depths:

200 mm: Standard apparatus depth with triple CT's on the cable terminal side.

400 mm: Standard apparatus depth 200 mm + contact extension 200 mm with integrated 3 CT's.



SlimLine

6. Intelligent Tier Switch (ITS)



SlimLine

7. Technical data

TYPE	Size	SR-E		SR-M		SR-B	SR-M BS 88	SR-M-DC		SR-SS/SP	
Rated operational voltage U_e (V)		500	690	500	690	690	690	230	500	500	690
Rated operational current I_e (A)	00	160	100	160	100	160	63, 100, 160	160	-	-	
	1	250		250		250	250	250			
	2	400		400		400	400	400			
	3	630		630		630	630	630		630	
Rated insulation voltage U_i (V)		1000		1000		1000	1000	-		1000	
Rated impulse withstand voltage U_{imp} (V)		8000		8000		8000	8000	-		8000	
Fuse protected short circuit making (kArms)		65 100 ¹⁾	50 100 ¹⁾	65 100 ¹⁾	50 100 ¹⁾	50 ²⁾	50	60		50	
Fuse protected short circuit withstand (kArms)		100		100			100	-		100	
Rated making and breaking capacity :		AC22B		AC23B		AC22B	AC23B	DC23B	DC21B	AC23B	
Rated frequency (Hz)		50 / 60		50 / 60		50 / 60	50 / 60	-		50 / 60	
Durability: Total / With current	00	2000 / 300		2000 / 300		2000 / 300	2000 / 300	2000 / 300		2000 / 300	
	1	1600 / 200		1600 / 200		1600 / 200	1600 / 200	1600 / 200		1600 / 200	
	2 / 3	1000 / 200		1000 / 200		1000 / 200	1000 / 200	1000 / 200		1000 / 200	
Degree of protection from the front acc. to IEC / EN 60529		IP 41		IP 41		IP 41	IP41	IP 41		IP 41	

Typetested according to IEC 60947-3.

Rated current with fuses must be reduced according to IEC 60439 when mounting switches into cubicles.

1) Personal safe. (Welded switching contacts allowed).

2) With maximum rated backup fuses.

Powerlosses in SlimLine

Size	00	1	2	3
Rated Current (A)	160	250	400	630
SR-E (W)	32,4	57,9	77,7	170,7
SR-M (W)	38,7	72,9	113,7	214,5
SR-B (W)	37,8	71,1	110,7	209,1

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

Type of Fuses for SR-M BS version

Current	Fuse Type	Current	Fuse Type	Current	Fuse Type
63 A	A3	250 A	B2	400 A	B4
100 A	A3			630 A	3T Lawson
160 A	00T Lawson				

SlimLine

7. Technical data

Use of Slimline mounted in switchboard

The modules (E) of the switch-fuses, are the basis for calculating the current carrying capacity of each switch-fuse in any combination in the switchboard. The modules of the switch-fuses are given below.

- Gr. 00 = 2 E
- Gr. 1 = 4 E
- Gr. 2 = 8 E
- Gr. 3 = 8 E

The current capacity is calculated in the following way:

- The modules of each switch-fuse are added.
- This sum, multiplied by the diversity factory (IEC 439), gives the effective height $Heff$.
- The current carrying capacity or permissible current of each switch fuse is given from the figure.

The figures apply to a max average ambient air temperature during 24 hours to +35°C. When the ambient air temperature exceeds these limits, the current carrying capacity must be reduced as follows.

Ambient air temperature °C	35	40	45	50	55
Reduction factor	1	0,95	0,9	0,85	0,8

Diversity factors acc. to IEC 60439				
Number of apparatus	2-3	4-5	6-10	10 or more
Diversity factor	0,9	0,8	0,7	0,6

Example:

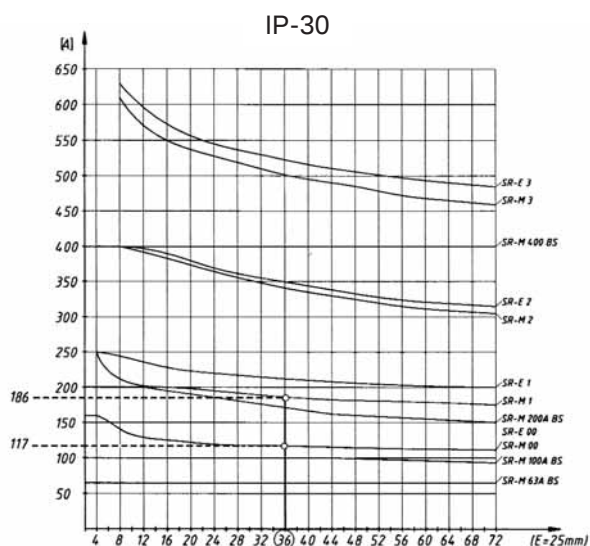
The following switch-fuses are built into a MNS switchboard.

- 16 pcs. SR-M 00 = 32 E
- 7 pcs. SR-M 1 = 28 E
- = 60 E

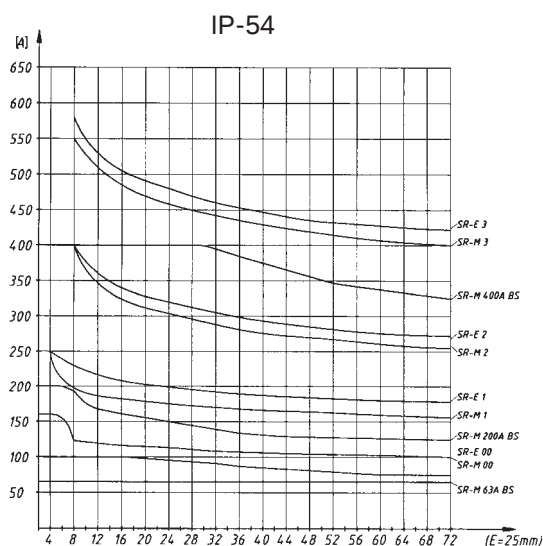
With a diversity factor = 0,6, the total effective height $Heff = 0,6 \times 60E = 36E$.

Average load current for each switch-fuse can be read from the graph for $Heff = 36E$.

- per SR-M 00 = 117 A
- per SR-M 1 = 186 A



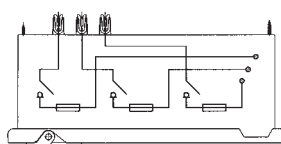
Effective height $Heff$.
Fuse-links acc. to VDE-0636/27 (reduced power-losses).
MNS switchboards with degree of protection IP-30.



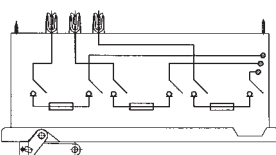
Effective height $Heff$.
Fuse-links acc. to VDE-0636/27 (reduced power-losses).
MNS switchboards with degree of protection IP-54.

SlimLine

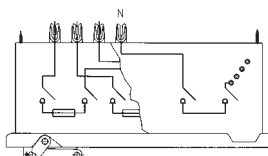
8. Ordering tables, DIN versions



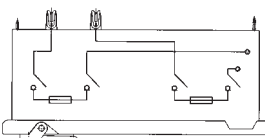
SR-E 50 mm



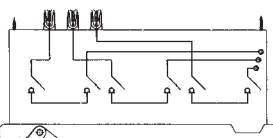
SR-M 50 mm



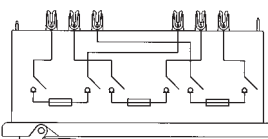
SR-M 50 mm 4-pole



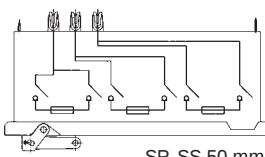
SR-M 50 mm DC



SR-B 50 mm



SR-SP 50 mm



SR-SS 50 mm

Type designation	Item description	Order code	Weight Per Unit
------------------	------------------	------------	-----------------

SR-E Switch fuse – 50 mm busbar distance

SR E00-50 3P	160A 50 mm 3 pole	NHP 100220R6003	4,0
SR E00-50 3P EFM	160A 50 mm 3 pole w/electr. fuse mon.	NHP 100220R6013	4,0
SR E1-50 3P	250A 50 mm 3 pole	NHP 100221R6003	6,9
SR E1-50 3P EFM	250A 50 mm 3 pole w/electr. fuse mon.	NHP 100221R6013	6,9
SR E2-50 3P	400A 50 mm 3 pole	NHP 100222R6003	16,5
SR E2-50 3P EFM	400A 50 mm 3 pole w/electr. fuse mon.	NHP 100222R6013	16,5
SR E3-50 3P	630A 50 mm 3 pole	NHP 100223R6003	16,8
SR E3-50 3P EFM	630A 50 mm 3 pole w/electr. fuse mon.	NHP 100223R6013	16,8

SR-M Switch fuse – 50 mm busbar distance

SR M00-50 3P	160A 50 mm 3 pole	NHP 100230R6003	4,1
SR M00-50 3P EFM	160A 50 mm 3 pole w/electr. fuse mon.	NHP 100230R6013	4,1
SR M1-50 3P	250A 50 mm 3 pole	NHP 100231R6003	6,9
SR M1-50 3P EFM	250A 50 mm 3 pole w/electr. fuse mon.	NHP 100231R6013	6,9
SR M2-50 3P	400A 50 mm 3 pole	NHP 100232R6003	16,5
SR M2-50 3P EFM	400A 50 mm 3 pole w/electr. fuse mon.	NHP 100232R6013	16,5
SR M3-50 3P	630A 50 mm 3 pole	NHP 100233R6003	16,8
SR M3-50 3P EFM	630A 50 mm 3 pole w/electr. fuse mon.	NHP 100233R6013	16,8

SR-M Switch fuse 4-pole – 50 mm busbar distance

SR M00-50 4P	160A 50 mm 4 pole	1SEP102030R6003	6,2
SR M00-50 4P EFM	160A 50 mm 4 pole w/electr. fuse mon.	1SEP102030R6013	6,2
SR M1-50 4P	250A 50 mm 4 pole	1SEP102031R6003	9,0
SR M1-50 4P EFM	250A 50 mm 4 pole w/electr. fuse mon.	1SEP102031R6013	9,0
SR M2-50 4P	400A 50 mm 4 pole	1SEP102032R6003	18,5
SR M2-50 4P EFM	400A 50 mm 4 pole w/electr. fuse mon.	1SEP102032R6013	18,5
SR M3-50 4P	630A 50 mm 4 pole	1SEP102033R6003	18,8
SR M3-50 4P EFM	630A 50 mm 4 pole w/electr. fuse mon.	1SEP102033R6013	18,8

SR-M Switch fuse 2-pole DC – 50 mm busbar distance

SR M00-50 DC	160A 50 mm 2 pole	NHP 100830R6003	3,8
SR M00-50 DC EFM	160A 50 mm 2 pole w/electr. fuse mon.	NHP 100830R6013	3,8
SR M1-50 DC	250A 50 mm 2 pole	NHP 100830R6003	6,4
SR M1-50 DC EFM	250A 50 mm 2 pole w/electr. fuse mon.	NHP 100830R6013	6,4
SR M2-50 DC	400A 50 mm 2 pole	NHP 100830R6003	14,4
SR M2-50 DC EFM	400A 50 mm 2 pole w/electr. fuse mon.	NHP 100830R6013	14,4
SR M3-50 DC	630A 50 mm 2 pole	NHP 100830R6003	14,7
SR M3-50 DC EFM	630A 50 mm 2 pole w/electr. fuse mon.	NHP 100830R6013	14,7

SR-B Switch disconnect – 50 mm busbar distance

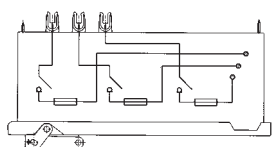
SR B00-50 3P	160A 50 mm 3 pole	NHP 100240R6003	4,1
SR B1-50 3P	250A 50 mm 3 pole	NHP 100241R6003	7,6
SR B2-50 3P	400A 50 mm 3 pole	NHP 100242R0003	16,5
SR B3-50 3P	630A 50 mm 3 pole	NHP 100243R6003	16,8

SR-S Bus-section Switch – 50 mm busbar distance

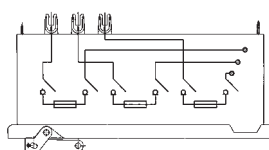
SR SP3-50 3P	630A 50 mm 3 pole – busbars in parallel	NHP 100253R6003	14,2
SR SP3-50 EFM	630A 50 mm 3 pole w/electr. fuse mon.	NHP 100253R6013	
SR SS3-50 3P	630A 50 mm 3 pole – busbars in series	NHP 100253R6006	14,5

SlimLine

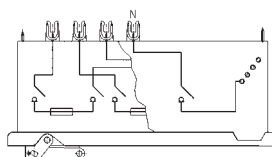
8. Ordering tables, DIN versions



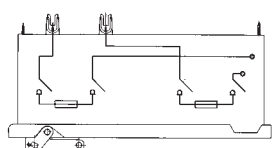
SR-E 60 mm



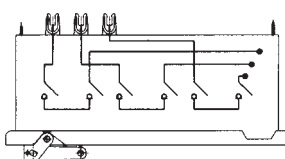
SR-M 60 mm



SR-M 60 mm 4-pole



SR-M 60 mm DC



SR-B 60 mm

Type designation	Item description	Order code	Weight Per Unit
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SR-E Switch fuse – 60 mm busbar distance

SR E00-60 3P	160A 60 mm 3 pole	NHP 101020R6003	4,0
SR E00-60 3P EFM	160A 60 mm 3 pole w/electr. fuse mon.	NHP 101020R6013	4,0
SR E1-60 3P	250A 60 mm 3 pole	NHP 101021R6003	6,9
SR E1-60 3P EFM	250A 60 mm 3 pole w/electr. fuse mon.	NHP 101021R6013	6,9
SR E2-60 3P	400A 60 mm 3 pole	NHP 101022R6003	16,5
SR E2-60 3P EFM	400A 60 mm 3 pole w/electr. fuse mon.	NHP 101022R6013	16,5
SR E3-60 3P	630A 60 mm 3 pole	NHP 101023R6003	16,8
SR E3-60 3P EFM	630A 60 mm 3 pole w/electr. fuse mon.	NHP 101023R6013	16,8

SR-M Switch fuse – 60 mm busbar distance

SR M00-60 3P	160A 60 mm 3 pole	NHP 101030R6003	4,1
SR M00-60 3P EFM	160A 60 mm 3 pole w/electr. fuse mon.	NHP 101030R6013	4,1
SR M1-60 3P	250A 60 mm 3 pole	NHP 101031R6003	6,9
SR M1-60 3P EFM	250A 60 mm 3 pole w/electr. fuse mon.	NHP 101031R6013	6,9
SR M2-60 3P	400A 60 mm 3 pole	NHP 101032R6003	16,5
SR M2-60 3P EFM	400A 60 mm 3 pole w/electr. fuse mon.	NHP 101032R6013	16,5
SR M3-60 3P	630A 60 mm 3 pole	NHP 101033R6003	16,8
SR M3-60 3P EFM	630A 60 mm 3 pole w/electr. fuse mon.	NHP 101033R6013	16,8

SR-M Switch fuse 4-pole – 60 mm busbar distance

SR M00-60 4P	160A 60 mm 4 pole	1SEP102130R6003	6,2
SR M00-60 4P EFM	160A 60 mm 4 pole w/electr. fuse mon.	1SEP102130R6013	6,2
SR M1-60 4P	250A 60 mm 4 pole	1SEP102131R6003	9,0
SR M1-60 4P EFM	250A 60 mm 4 pole w/electr. fuse mon.	1SEP102131R6013	9,0
SR M2-60 4P	400A 60 mm 4 pole	1SEP102132R6003	18,5
SR M2-60 4P EFM	400A 60 mm 4 pole w/electr. fuse mon.	1SEP102132R6013	18,5
SR M3-60 4P	630A 60 mm 4 pole	1SEP102133R6003	18,8
SR M3-60 4P EFM	630A 60 mm 4 pole w/electr. fuse mon.	1SEP102133R6013	18,8

SR-M Switch fuse 2-pole DC – 60 mm busbar distance

SR M00-60 DC	160A 60 mm 2 pole	NHP 101130R6003	3,8
SR M00-60 DC EFM	160A 60 mm 2 pole w/electr. fuse mon.	NHP 101130R6013	3,8
SR M1-60 DC	250A 60 mm 2 pole	NHP 101131R6003	6,4
SR M1-60 DC EFM	250A 60 mm 2 pole w/electr. fuse mon.	NHP 101131R6013	6,4
SR M2-60 DC	400A 60 mm 2 pole	NHP 101132R6003	14,4
SR M2-60 DC EFM	400A 60 mm 2 pole w/electr. fuse mon.	NHP 101132R6013	14,4
SR M3-60 DC	630A 60 mm 2 pole	NHP 101133R6003	14,7
SR M3-60 DC EFM	630A 60 mm 2 pole w/electr. fuse mon.	NHP 101133R6013	14,7

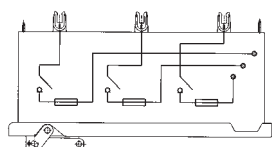
SR-B Switch disconnect – 60 mm busbar distance

SR B00-60 3P	160A 60 mm 3 pole	NHP 101040R6003	4,1
SR B1-60 3P	250A 60 mm 3 pole	NHP 101041R6003	7,6
SR B2-60 3P	400A 60 mm 3 pole	NHP 101042R6003	16,5
SR B3-60 3P	630A 60 mm 3 pole	NHP 101043R6003	16,8

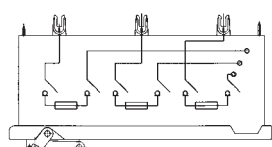
Note! 10 mm thickness as standard.
5 mm delivered on request.

SlimLine

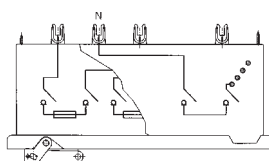
8. Ordering tables, DIN versions



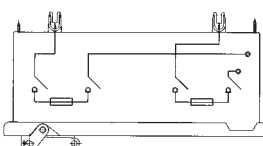
SR-E 185 mm



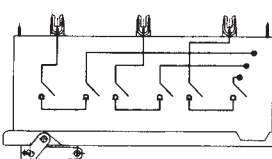
SR-M 185 mm



SR-M 185 mm 4-pole



SR-M 185 mm DC



SR-B 185 mm

Type designation	Item description	Order code	Weight Per Unit
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SR-E Switch fuse – 185 mm busbar distance

SR E00-185 3P	160A 185 mm 3 pole	NHP 100420R6003	4,0
SR E00-185 3P EFM	160A 185 mm 3 pole w/electr. fuse mon.	NHP 100420R6013	4,0
SR E1-185 3P	250A 185 mm 3 pole	NHP 100421R6003	6,9
SR E1-185 3P EFM	250A 185 mm 3 pole w/electr. fuse mon.	NHP 100421R6013	6,9
SR E2-185 3P	400A 185 mm 3 pole	NHP 100422R6003	16,5
SR E2-185 3P EFM	400A 185 mm 3 pole w/electr. fuse mon.	NHP 100422R6013	16,5
SR E3-185 3P	630A 185 mm 3 pole	NHP 100423R6003	16,8
SR E3-185 3P EFM	630A 185 mm 3 pole w/electr. fuse mon.	NHP 100423R6013	16,8

SR-M Switch fuse – 185 mm busbar distance

SR M00-185 3P	160A 185 mm 3 pole	NHP 100430R6003	4,1
SR M00-185 3P EFM	160A 185 mm 3 pole w/electr. fuse mon.	NHP 100430R6013	4,1
SR M1-185 3P	250A 185 mm 3 pole	NHP 100431R6003	6,9
SR M1-185 3P EFM	250A 185 mm 3 pole w/electr. fuse mon.	NHP 100431R6013	6,9
SR M2-185 3P	400A 185 mm 3 pole	NHP 100432R6003	16,5
SR M2-185 3P EFM	400A 185 mm 3 pole w/electr. fuse mon.	NHP 100432R6013	16,5
SR M3-185 3P	630A 185 mm 3 pole	NHP 100433R6003	16,8
SR M3-185 3P EFM	630A 185 mm 3 pole w/electr. fuse mon.	NHP 100433R6013	16,8

SR-M Switch fuse 4-pole – 185 mm busbar distance

SR M00-185 4P	160A 185 mm 4 pole	1SEP102330R6003	6,2
SR M00-185 4P EFM	160A 185 mm 4 pole w/electr. fuse mon.	1SEP102330R6013	6,2
SR M1-185 4P	250A 185 mm 4 pole	1SEP102331R6003	9,0
SR M1-185 4P EFM	250A 185 mm 4 pole w/electr. fuse mon.	1SEP102331R6013	9,0
SR M2-185 4P	400A 185 mm 4 pole	1SEP102332R6003	18,5
SR M2-185 4P EFM	400A 185 mm 4 pole w/electr. fuse mon.	1SEP102332R6013	18,5
SR M3-185 4P	630A 185 mm 4 pole	1SEP102333R6003	18,8
SR M3-185 4P EFM	630A 185 mm 4 pole w/electr. fuse mon.	1SEP102333R6013	18,8

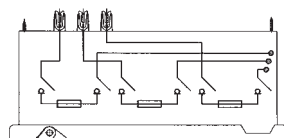
SR-M Switch fuse 2-pole DC – 185 mm busbar distance

SR M00-185 DC	160A 185 mm 2 pole	NHP 100930R6003	3,8
SR M00-185 DC EFM	160A 185 mm 2 pole w/electr. fuse mon.	NHP 100930R6013	3,8
SR M1-185 DC	250A 185 mm 2 pole	NHP 100931R6003	6,4
SR M1-185 DC EFM	250A 185 mm 2 pole w/electr. fuse mon.	NHP 100931R6013	6,4
SR M2-185 DC	400A 185 mm 2 pole	NHP 100932R6003	14,4
SR M2-185 DC EFM	400A 185 mm 2 pole w/electr. fuse mon.	NHP 100932R6013	14,4
SR M3-185 DC	630A 185 mm 2 pole	NHP 100933R6003	14,7
SR M3-185 DC EFM	630A 185 mm 2 pole w/electr. fuse mon.	NHP 100933R6013	14,7

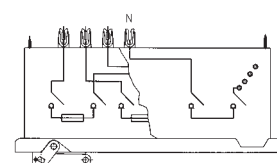
SR-B Switch disconnect – 185 mm busbar distance

SR B00-185 3P	160A 185 mm 3 pole	NHP 100440R6003	4,1
SR B1-185 3P	250A 185 mm 3 pole	NHP 100441R6003	7,6
SR B2-185 3P	400A 185 mm 3 pole	NHP 100442R6003	16,5
SR B3-185 3P	630A 185 mm 3 pole	NHP 100443R6003	16,8

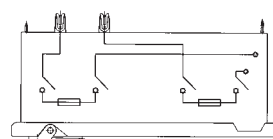
8. Ordering tables, BS versions



SR-M 50 mm



SR-M 50 mm 4-pole



SR-M 50 mm DC

Type designation	Item description	Order code	Weight Per Unit
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SR-M Switch fuse - 50 mm busbar distance BS - British Standard

SR M63BS-50-3P	63A 50mm BS 3 pole	NHP 100230R6203	4,1
SR M63BS-50-3P-EFM	63A 50mm BS 3 pole w/ electr. fuse mon.	NHP 100230R6213	4,2
SR M100BS-50-3P	100A 50mm BS 3 pole	NHP 100230R6103	4,1
SR M100BS-50-3P-EFM	100A 50mm BS 3 pole w/ electr. fuse mon.	NHP 100230R6113	4,2
SR M160BS-50-3P	160A 50mm BS 3 pole	NHP 100230R6403	4,1
SR M160BS-50-3P-EFM	160A 50mm BS 3 pole w/ electr. fuse mon.	NHP 100230R6413	4,2
SR M250BS-50-3P	250A 50mm BS 3 pole	NHP 100231R6103	7,6
SR M250BS-50-3P-EFM	250A 50mm BS 3 pole w/ electr. fuse mon.	NHP 100231R6113	7,7
SR M400BS-50-3P	400A 50mm BS 3 pole	NHP 100233R6103	16,5
SR M400BS-50-3P-EFM	400A 50mm BS 3 pole w/ electr. fuse mon.	NHP 100233R6113	16,6
SR M630BS-50-3P	630A 50mm BS 3 pole	NHP 100233R6203	16,8
SR M630BS-50-3P-EFM	630A 50mm BS 3 pole w/ electr. fuse mon.	NHP 100233R6213	16,9

SR-M Switch fuse 4-pole - 50 mm busbar distance BS - British Standard

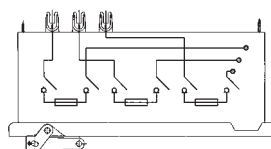
SR M63BS-50-4P	63A 50mm BS 4 pole	1SEP102030R6203	7,1
SR M63BS-50-4P-EFM	63A 50mm BS 4 pole w/ electr. fuse mon.	1SEP102030R6213	7,2
SR M100BS-50 4P	100A 50mm BS 4 pole	1SEP102030R6103	7,3
SR M100BS-50-4P-EFM	100A 50mm BS 4 pole w/ electr. fuse mon.	1SEP102030R6113	7,4
SR M160BS-185-4P	160A 50mm BS 4 pole	1SEP102030R6403	6,2
SR M160BS-185-4P-EFM	160A 50mm BS 4 pole w/ electr. fuse mon.	1SEP102030R6413	6,3
SR M250BS-50 4P	250A 50mm BS 4 pole	1SEP102031R6103	12,2
SR M250BS-50-4P-EFM	250A 50mm BS 4 pole w/ electr. fuse mon.	1SEP102031R6113	12,3
SR M400BS-50-4P	400A 50mm BS 4 pole	1SEP102033R6103	18,5
SR M400BS-50-4P-EFM	400A 50mm BS 4 pole w/ electr. fuse mon.	1SEP102033R6113	18,6
SR M630BS-50-4P	630A 50mm BS 4 pole	1SEP102033R6203	18,8
SR M630BS-50-4P-EFM	630A 50mm BS 4 pole w/ electr. fuse mon.	1SEP102033R6213	18,9

SR-M Switch fuse 2-pole DC - 50 mm busbar distance BS - British Standard

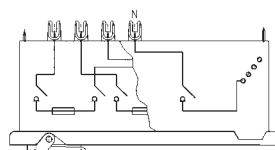
SR M63BS-50-DC	63 A 50mmDC BS 2 pole	NHP 100830R6203	4,6
SR M63BS-50-DC-EFM	63 A 50mmDC BS 2 pole w/ electr. fuse mon.	NHP 100830R6213	4,7
SR M100BS-50-DC	100A 50mmDC BS 2 pole	NHP 100830R6103	4,9
SR M100BS-50-DC-EFM	100A 50mmDC BS 2 pole w/ electr. fuse mon.	NHP 100830R6113	5
SR M250BS-50-DC	250A 50mmDC BS 2 pole	NHP 100831R6103	8,3
SR M250BS-50-DC-EFM	250A 50mmDC BS 2 pole w/ electr. fuse mon.	NHP 100831R6113	8,4
SR M400BS-50-DC	400A 50mmDC BS 2 pole	NHP 100833R6103	20,2
SR M400BS-50-DC-EFM	400A 50mmDC BS 2 pole w/ electr. fuse mon.	NHP 100833R6113	20,3

SlimLine

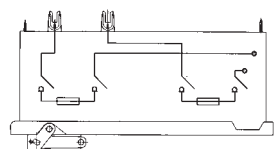
8. Ordering tables, BS versions



SR-M 60 mm



SR-M 60 mm 4-pole



SR-M 60 mm DC

Type designation	Item description	Order code	Weight Per Unit
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SR-M Switch fuse - 60 mm busbar distance BS - British Standard

SR M63BS-60-3P	63A 60mm BS 3 pole	NHP 101030R6203	4,1
SR M63BS-60-3P-EFM	63A 60mm BS 3 pole w/ electr. fuse mon.	NHP 101030R6213	4,2
SR M100BS-60-3P	100A 60mm BS 3 pole	NHP 101030R6103	4,1
SR M100BS-60-3P-EFM	100A 60mm BS 3 pole w/ electr. fuse mon.	NHP 101030R6113	4,2
SR M160BS-60-3P	160A 60mm BS 3 pole	NHP 101030R6403	4,1
SR M160BS-60-3P-EFM	160A 60mm BS 3 pole w/ electr. fuse mon.	NHP 101030R6413	4,2
SR M250BS-60-3P	250A 60mm BS 3 pole	NHP 101031R6103	7,6
SR M250BS-60-3P-EFM	250A 60mm BS 3 pole w/ electr. fuse mon.	NHP 101031R6113	7,7
SR M400BS-60-3P	400A 60mm BS 3 pole	NHP 101033R6103	16,5
SR M400BS-60-3P-EFM	400A 60mm BS 3 pole w/ electr. fuse mon.	NHP 101033R6113	16,6
SR M630BS-60-3P	630A 60mm BS 3 pole	NHP 101033R6203	16,8
SR M630BS-60-3P-EFM	630A 60mm BS 3 pole w/ electr. fuse mon.	NHP 101033R6213	16,9

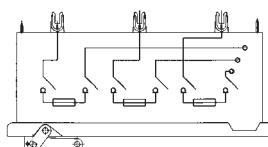
SR-M Switch fuse 4-pole - 60 mm busbar distance BS - British Standard

SR M63BS-60-4P	63A 60mm BS 4 pole	1SEP102130R6203	7,1
SR M63BS-60-4P-EFM	63A 60mm BS 4 pole w/ electr. fuse mon.	1SEP102130R6213	7,2
SR M100BS-60-4P	100A 60mm BS 4 pole	1SEP102130R6103	7,3
SR M100BS-60-4P-EFM	100A 60mm BS 4 pole w/ electr. fuse mon.	1SEP102130R6113	7,4
SR M160BS-60-4P	160A 60mm BS 4 pole	1SEP102130R6403	6,2
SR M160BS-60-4P-EFM	160A 60mm BS 4 pole w/ electr. fuse mon.	1SEP102130R6413	6,3
SR M250BS-60-4P	250A 60mm BS 4 pole	1SEP102131R6103	12,2
SR M250BS-60-4P-EFM	250A 60mm BS 4 pole w/ electr. fuse mon.	1SEP102131R6113	12,3
SR M400BS-60-4P	400A 60mm BS 4 pole	1SEP102133R6103	18,5
SR M400BS-60-4P-EFM	400A 60mm BS 4 pole w/ electr. fuse mon.	1SEP102133R6113	18,6
SR M630BS-60-4P	630A 60mm BS 4 pole	1SEP102133R6203	18,8
SR M630BS-60-4P-EFM	630A 60mm BS 4 pole w/ electr. fuse mon.	1SEP102133R6213	18,9

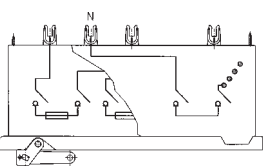
SR-M Switch fuse 2-pole DC - 60 mm busbar distance BS - British Standard

SR M63BS-60-DC	63 A 60mm BS DC 2 pole	NHP 101130R6203	4,6
SR M63BS-60-DC-EFM	63 A 60mm BS DC 2 pole w/ electr. fuse mon.	NHP 101130R6213	4,7
SR M100BS-60-DC	100A 60mm BS DC 2 pole	NHP 101130R6103	4,9
SR M100BS-60-DC-EFM	100A 60mm BS DC 2 pole w/ electr. fuse mon.	NHP 101130R6113	5
SR M250BS-60-DC	250A 60mm BS DC 2 pole	NHP 101131R6103	8,3
SR M250BS-60-DC-EFM	250A 60mm BS DC 2 pole w/ electr. fuse mon.	NHP 101131R6113	8,4
SR M400BS-60-DC	400A 60mm BS DC 2 pole	NHP 101133R6103	20,2
SR M400BS-60-DC-EFM	400A 60mm BS DC 2 pole w/ electr. fuse mon.	NHP 101133R6113	20,3

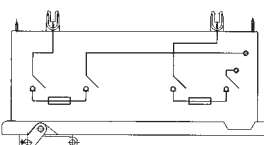
8. Ordering tables, BS versions



SR-M 185 mm



SR-M 185 mm 4-pole



SR-M 185 mm DC

Type designation	Item description	Order code	Weight Per Unit
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SR-M Switch fuse - 185 mm busbar distance BS - British Standard

SR M63BS-185-3P	63A 185mm BS 3 pole	NHP 100430R6203	4,1
SR M63BS-185-3P-EFM	63A 185mm BS 3 pole w/ electr. fuse mon.	NHP 100430R6213	4,2
SR M100BS-185-3P	100A 185mm BS 3 pole	NHP 100430R6103	4,1
SR M100BS-185-3P-EFM	100A 185mm BS 3 pole w/ electr. fuse mon.	NHP 100430R6113	4,2
SR M160BS-185-3P	160A 185mm BS 3 pole	NHP 100430R6403	4,1
SR M160BS-185-3P-EFM	160A 185mm BS 3 pole w/ electr. fuse mon.	NHP 100430R6413	4,2
SR M250BS-185-3P	250A 185mm BS 3 pole	NHP 100431R6103	7,6
SR M250BS-185-3P-EFM	250A 185mm BS 3 pole w/ electr. fuse mon.	NHP 100431R6113	7,7
SR M400BS-185-3P	400A 185mm BS 3 pole	NHP 100433R6103	16,5
SR M400BS-185-3P-EFM	400A 185mm BS 3 pole w/ electr. fuse mon.	NHP 100433R6113	16,6
SR M630BS-185-3P	630A 185mm BS 3 pole	NHP 100433R6203	16,8
SR M630BS-185-3P-EFM	630A 185mm BS 3 pole w/ electr. fuse mon.	NHP 100433R6213	16,9

SR-M Switch fuse 4-pole - 185 mm busbar distance BS - British Standard

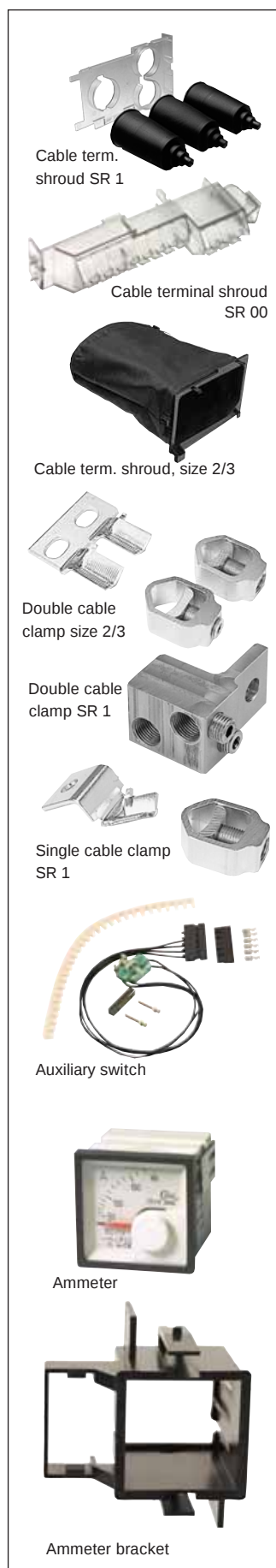
SR M63BS-185-4P	63A 185mm BS 4 pole	1SEP102330R6203	7,1
SR M63BS-185-4P-EFM	63A 185mm BS 4 pole w/ electr. fuse mon.	1SEP102330R6213	7,2
SR M100BS-185-4P	100A 185mm BS 4 pole	1SEP102330R6103	7,3
SR M100BS-185-4P-EFM	100A 185mm BS 4 pole w/ electr. fuse mon.	1SEP102330R6113	7,4
SR M160BS-185-4P	160A 185mm BS 4 pole	1SEP102330R6403	6,2
SR M160BS-185-4P-EFM	160A 185mm BS 4 pole w/ electr. fuse mon.	1SEP102330R6413	6,3
SR M250BS-185-4P	250A 185mm BS 4 pole	1SEP102331R6103	12,2
SR M250BS-185-4P-EFM	250A 185mm BS 4 pole w/ electr. fuse mon.	1SEP102331R6113	12,3
SR M400BS-185-4P	400A 185mm BS 4 pole	1SEP102333R6103	18,5
SR M400BS-185-4P-EFM	400A 185mm BS 4 pole w/ electr. fuse mon.	1SEP102333R6113	18,6
SR M630BS-185-4P	630A 185mm BS 4 pole	1SEP102333R6203	18,8
SR M630BS-185-4P-EFM	630A 185mm BS 4 pole w/ electr. fuse mon.	1SEP102333R6213	18,9

SR-M Switch fuse 2-pole DC - 185 mm busbar distance BS - British Standard

SR M63BS-185-DC	63 A 185mm BS DC 2 pole	NHP 100930R6203	4,6
SR M63BS-185-DC-EFM	63 A 185mm BS DC 2 pole w/ electr. fuse mon.	NHP 100930R6213	4,7
SR M100BS-185-DC	100A 185mm BS DC 2 pole	NHP 100930R6103	4,9
SR M100BS-185-DC-EFM	100A 185mm BS DC 2 pole w/ electr. fuse mon.	NHP 100930R6113	5
SR M250BS-185-DC	250A 185mm BS DC 2 pole	NHP 100931R6103	8,3
SR M250BS-185-DC-EFM	250A 185mm BS DC 2 pole w/ electr. fuse mon.	NHP 100931R6113	8,4
SR M400BS-185-DC	400A 185mm BS DC 2 pole	NHP 100933R6103	20,2
SR M400BS-185-DC-EFM	400A 185mm BS DC 2 pole w/ electr. fuse mon.	NHP 100933R6113	20,3

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8. Ordering tables, accessories



Type designation	Item description	Order code	Weight Per Unit
Cable shrouds			
SR-00 Cable terminal shroud 2 and 3 pole	Order qty 60 pcs each carton	1SEP407843R0001	0,1
SR-00 Cable terminal shroud 60 pcs in carton		1SEP407843R0060	6,3
SR-1 Cable terminal shroud for double clamps		NHP 405670R0003	0,1
SR-1 Cable terminal shroud cable lug	Order qty 28 pcs each carton	NHP 405670R0004	0,1
SR-1 Cable terminal shroud cable lug		NHP 405670R0030	3,0
SR-1 Cable terminal shroud universal		NHP 405670R0006	0,1
SR-1 3-phase CT Cable terminal shroud 50-120 mm2	3 pcs in a packet	GLBS200526R0001	0,4
SR-1 3-phase CT Cable terminal shroud 150-240 mm2	3 pcs in a packet	GLBS200526R0003	0,6
SR-2/3 Cable terminal shroud	For SR- 00 ,1,2,3 4.th pole	NHP 405670R0005	0,2
SR - Cable terminal shroud 4th pole size 00 - 3		1SEP407775R0001	0,1
Cable clamps			
SR-00 Cable clamp single for 3 pole	10-95 mm2	1SEP408203R0001	0,1
SR-00 Cable clamp single for 4 pole	10-95 mm2	1SEP408203R0002	0,2
SR-1 Cable clamp single for 3 pole	95-240 mm2	1SEP408204R0001	0,3
SR-1 Cable clamp single for 4 pole	95-240 mm2	1SEP408204R0002	0,4
SR-1 Cable clamp double for 3 pole	2 x 10-95 mm2	1SEP408205R0001	0,3
SR-1 Cable clamp double for 4 pole	2 x 10-95 mm2	1SEP408205R0002	0,4
SR-2/3 Cable clamp double for 2 and 3 pole	2 x 95-240 mm2	1SEP408206R0001	0,2
SR-2/3 Cable clamp double for 4 pole	2 x 95-240 mm2	1SEP408206R0002	0,2
Auxiliary switches			
SR-00 Auxiliary switch 1NO+1NC		NHP 404640R0001	0,1
SR-00 Auxiliary switch 2NO+2NC		NHP 404640R0002	0,1
SR-1 Auxiliary switch 1NO+1NC		NHP 404641R0001	0,1
SR-1 Auxiliary switch 2NO+2NC		NHP 404641R0002	0,1
SR-2/3 Auxiliary switch 1NO+1NC		NHP 404721R0001	0,1
SR-2/3 Auxiliary switch 2NO+2NC		NHP 404721R0002	0,1
A-meters			
SR-00 A-meter 0-150-180/1A		NHSN714003P0150	0,1
SR-00 A-meter 0-150-180/5A		NHSN714003P1150	0,1
SR-1 A-meter 0-250-300/1A		NHSN714003P0250	0,1
SR-1 A-meter 0-250-300/5A		NHSN714003P1250	0,1
SR-2 A-meter 0-400-480/1A		NHSN714003P0400	0,1
SR-2 A-meter 0-400-480/5A		NHSN714003P1400	0,1
SR-3 A-meter 0-600-720/1A		NHSN714003P0600	0,1
SR-3 A-meter 0-600-720/5A		NHSN714003P1600	0,1
SR-1/2/3 A-meter bracket		NHP 200829P0001	0,1
Current transformers			
SR-00 Current transformer (150/1A). With clamps	ASR 201.3 3,75 VA, Cl.1	NHSN718042P1015	0,1
SR-00 Current transformer (150/5A). With clamps	ASR 201.3 3,75 VA, Cl.1	NHSN718042P5015	0,1
SR-00 Current transformer (150/1A). With cables	ASG 210.3 3,75 VA, Cl.1	NHSN718043P1015	0,1
SR-00 Current transformer (150/5A). With cables	ASG 210.3 3,75 VA, Cl.1	NHSN718043P5015	0,1
SR-00 Current transformer (50/1A). 3 Phase	ASRD 210.3 1 VA, Cl.1	1SEP304462R0001	0,5
SR-00 Current transformer (50/5A). 3 Phase	ASRD 210.3 1 VA, Cl.1	1SEP304462R0002	0,5
SR-00 Current transformer (100/1A). 3 Phase	ASRD 210.3 1,5 VA, Cl.1	1SEP304462R0003	0,5
SR-00 Current transformer (100/5A). 3 Phase	ASRD 210.3 1,5 VA, Cl.1	1SEP304462R0004	0,5
SR-00 Current transformer (150/1A). 3 Phase	ASRD 210.3 2,5 VA, Cl.1	1SEP304462R0005	0,5
SR-00 Current transformer (150/5A). 3 Phase	ASRD 210.3 2,5 VA, Cl.1	1SEP304462R0006	0,5
SR-00 Current transformer (100/1A). 3 Phase	ASRD 210.3 1,5 VA, Cl.0,5	1SEP304462R0013	0,5
SR-00 Current transformer (100/5A). 3 Phase	ASRD 210.3 1,5 VA, Cl.0,5	1SEP304462R0014	0,5
SR-00 Current transformer (150/1A). 3 Phase	ASRD 210.3 2,5 VA, Cl.0,5	1SEP304462R0015	0,5
SR-00 Current transformer (150/5A). 3 Phase	ASRD 210.3 2,5 VA, Cl.0,5	1SEP304462R0016	0,5
SR-1 Current transformer 250/1 A for 3-phase Kit	ASK 231.5 5 VA, Cl.1	NHSN718048P1025	0,2
SR-1 Current transformer 250/5 A for 3-phase Kit	ASK 231.5 5 VA, Cl.1	NHSN718048P5025	0,2
SR-1 Current transformer 250/1 A for 3-phase Kit	ASK 231.5 5VA, Cl.0,5	NHSN718049P1025	0,2

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8. Ordering tables, accessories



Current transformer



Contact extension 50 mm



Contact extension 185 mm

Type designation	Item description	Order code	Weight Per Unit
SR-1 Current transformer (250/1A)	ASR 42.45 7,5 VA, Cl.1	NHSN718044P1025	0,2
SR-1 Current transformer (250/5A)	ASR 42.45 7,5 VA, Cl.1	NHSN718044P5025	0,2
SR-1 Kit of Cu ext.bars for 3 phase CT's	Prepared for 3 x ASK 231.5	1SEP408073R0001	0,9
SR-2 Current transformer (400/1A) Cl. 1	ASK 31.3 10 VA, Cl.1	NHSN718045P1040	0,3
SR-2 Current transformer (400/5A) Cl. 1	ASK 31.3 10 VA, Cl.1	NHSN718045P5040	0,3
SR-2 Current transformer (400/1A) Cl. 0,5	ASK 31.3 5 VA, Cl.0,5	NHSN718046P1040	0,3
SR-2 Current transformer (400/5A) Cl. 0,5	ASK 31.3 5 VA, Cl.0,5	NHSN718046P5040	0,3
SR-2 Current transf for Contact Ext. (300/1A) Cl. 1	ASK 41.4 10 VA Cl.1	NHSN718047P1030	0,3
SR-2 Current transf for Contact Ext. (400/1A) Cl. 1	ASK 41.4 10 VA, Cl.1	NHSN718047P1040	0,3
SR-2 Current transf for Contact Ext. (300/5A) Cl. 1	ASK 41.4 10 VA, Cl.1	NHSN718047P5030	0,3
SR-2 Current transf for Contact Ext. (400/5A) Cl. 1	ASK 41.4 10 VA, Cl.1	NHSN718047P5040	0,3
SR-3 Current transformer (600/1A) Cl. 1	ASK 31.3 10 VA, Cl.1	NHSN718045P1060	0,3
SR-3 Current transformer (600/5A) Cl. 1	ASK 31.3 10 VA, Cl.1	NHSN718045P5060	0,3
SR-3 Current transformer (600/1A) Cl. 0,5	ASK 31.3 5 VA, Cl.0,5	NHSN718046P1060	0,3
SR-3 Current transformer (600/5A) Cl. 0,5	ASK 31.3 5 VA, Cl.0,5	NHSN718046P5060	0,3
SR-3 Current transf for Contact Ext. (500/1A) Cl. 1	ASK 41.4 10 VA, Cl.1	NHSN718047P1050	0,3
SR-3 Current transf for Contact Ext. (600/1A) Cl. 1	ASK 41.4 10 VA, Cl.1	NHSN718047P1060	0,3
SR-3 Current transf for Contact Ext. (500/5A) Cl. 1	ASK 41.4 10 VA, Cl.1	NHSN718047P5050	0,3
SR-3 Current transf for Contact Ext. (600/5A) Cl. 1	ASK 41.4 10 VA, Cl.1	NHSN718047P5060	0,3
SR-2/3 Kit of Cu ext.bars for 3 phase CT's	Prepared for 3 x ASK 31.3	1SEP407988R0001	1,1

Contact extensions

SR-00 Contact extension for 50mm 2 pole DC	NHP 100011R0002	1,5
SR-00 Contact extension for 50mm 3 pole	NHP 100011R0001	1,6
SR-00 Contact extension for 50mm 4 pole	NHP 101364R0001	2,0
SR-00 Contact extension for 185mm 3 pole	NHP 100803R0001	1,7
SR-1 Contact extension for 50mm 2 pole DC	NHP 100014R0002	2,2
SR-1 Contact extension for 50mm 3 pole	NHP 100014R0001	2,3
SR-1 Contact extension for 50mm 4 pole	NHP 101376R0001	2,7
SR-1 Contact extension for 185mm 3 pole	NHP 100885R0001	2,4
SR-2/3 Contact extension for 50mm 3 pole	NHP 100495R0001	6,5
SR-2/3 Contact extension for 50mm 4 pole	1SEP101861R0001	9,2
SR-2/3 Contact extension for 185mm 3 pole	NHP 100886R0001	
SR-2/3 Contact extension for 185mm 4 pole	1SEP102198R0001	
SR-2/3 L2 Cu-extension for 2x240 mm ² cable lug	1SEP304277R0001	
SR-S 3 Contact extension	NHP 100495R0002	9,3

Front covers

SR-M 00 Front cover with handle	NCS 1704 (Beige)	NHP 302073R0001	0,4
SR-E 00 Front cover with handle	NCS 1704 (Beige)	NHP 302073R0002	0,4
SR-B 00 Front cover with handle	NCS 1704 (Beige)	NHP 302073R0003	0,4
SR-M 00 Front cover with handle	RAL 7035 (ABB Grey)	NHP 302073R6001	0,4
SR-E 00 Front cover with handle	RAL 7035 (ABB Grey)	NHP 302073R6002	0,4
SR-B 00 Front cover with handle	RAL 7035 (ABB Grey)	NHP 302073R6003	0,4
SR-M 63 A BS Front cover with handle	NCS 1704 (Beige)	NHP 302073R0013	0,4
SR-M 100 A BS Front cover with handle	NCS 1704 (Beige)	NHP 302073R0014	0,4
SR-M 160 A BS Front cover with handle	NCS 1704 (Beige)	NHP 302073R0017	0,4
SR-M 63 A BS Front cover with handle	RAL 7035 (ABB Grey)	NHP 302073R6013	0,4
SR-M 100 A BS Front cover with handle	RAL 7035 (ABB Grey)	NHP 302073R6014	0,4
SR-M 160 A BS Front cover with handle	RAL 7035 (ABB Grey)	NHP 302073R6017	0,4
SR-M 1 Front cover with handle	NCS 1704 (Beige)	NHP 302073R0004	0,4
SR-E 1 Front cover with handle	NCS 1704 (Beige)	NHP 302073R0005	0,4
SR-B 1 Front cover with handle	NCS 1704 (Beige)	NHP 302073R0006	0,4
SR-M 1 Front cover with handle	RAL 7035 (ABB Grey)	NHP 302073R6004	0,4
SR-E 1 Front cover with handle	RAL 7035 (ABB Grey)	NHP 302073R6005	0,4
SR-B 1 Front cover with handle	RAL 7035 (ABB Grey)	NHP 302073R6006	0,4
SR-M 250 A BS Front cover with handle	NCS 1704 (Beige)	NHP 302073R0015	0,4
SR-M 250 A BS Front cover with handle	RAL 7035 (ABB Grey)	NHP 302073R6015	0,4
SR-M 2 Front cover with handle	NCS 1704 (Beige)	NHP 302073R0007	0,7
SR-E 2 Front cover with handle	NCS 1704 (Beige)	NHP 302073R0008	0,7
SR-B 2 Front cover with handle	NCS 1704 (Beige)	NHP 302073R0009	0,7
SR-M 2 Front cover with handle	RAL 7035 (ABB Grey)	NHP 302073R6007	0,7
SR-E 2 Front cover with handle	RAL 7035 (ABB Grey)	NHP 302073R6008	0,7

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8. Ordering tables, accessories



Type designation	Item description	Order code	Weight Per Unit
SR-B 2 Front cover with handle	RAL 7035 (ABB Grey)	NHP 302073R6009	0,7
SR-M 400 A BS Front cover with handle	NCS 1704 (Beige)	NHP 302073R0016	0,7
SR-M 400 A BS Front cover with handle	RAL 7035 (ABB Grey)	NHP 302073R6016	0,7
SR-M 3 Front cover with handle	NCS 1704 (Beige)	NHP 302073R0010	0,7
SR-E 3 Front cover with handle	NCS 1704 (Beige)	NHP 302073R0011	0,7
SR-B 3 Front cover with handle	NCS 1704 (Beige)	NHP 302073R0012	0,7
SR-S Front cover with handle	NCS 1704 (Beige)	NHP 302073R0019	0,7
SR-M 3 Front cover with handle	RAL 7035 (ABB Grey)	NHP 302073R6010	0,7
SR-E 3 Front cover with handle	RAL 7035 (ABB Grey)	NHP 302073R6011	0,7
SR-B 3 Front cover with handle	RAL 7035 (ABB Grey)	NHP 302073R6012	0,7
SR-M 630 A BS Front cover with handle	NCS 1704 (Beige)	NHP 302073R0018	0,7
SR-M 630 A BS Front cover with handle	RAL 7035 (ABB Grey)	NHP 302073R6018	0,7
SR-S Front cover with handle	RAL 7035 (ABB Grey)	NHP 302073R6019	0,7

SlimLine Cassette

SR - SlimLine cassette 185mm/500mm	RAL 7012	1SEP102223R0001	12,7
SR - SlimLine cassette 185mm/1000mm	RAL 7012	1SEP102223R0002	21,2
SR - SlimLine cassette 185mm/1500mm	RAL 7012	1SEP102223R0003	30,0
SR - SlimLine cassette 185mm/2000mm	RAL 7012	1SEP102223R0004	38,0
SR - IP20 busbar cover 500mm		NHP 407062R0001	1,5
SR - IP20 busbar cover 1000mm		NHP 407062R0002	2,8
SR - IP20 busbar cover 1500mm		NHP 407062R0003	4,1
SR - IP20 busbar cover 2000mm		NHP 407062R0004	5,4
SR - Single IP20 busbar cover 200mm		NHP 101474P0001	0,5
SR - Busbar holder 185mm		NHP 343139P0001	0,4
SR - Bracket for busb. holder 185mm		NHP 350325P0001	0,2

SlimLine Service Module

SR - Service module top/bottom seg. plate		NHP 101155R0001	0,2
SR - Service module mount. plate 100mm		NHP 405897R0001	0,8
SR - Service module mount. plate 200mm		NHP 405897R0002	1,5
SR - Service module mount. plate 300mm		NHP 405897R0003	2,2
SR - Service module mount. plate 400mm		NHP 405897R0004	2,9
SR - Front blind cover 100mm hinged	RAL 7035 (ABB Grey)	NHP 101323R6001	1,4
SR - Front blind cover 200mm hinged	RAL 7035 (ABB Grey)	NHP 101323R6002	2,5
SR - Front blind cover 300mm hinged	RAL 7035 (ABB Grey)	NHP 101323R6003	3,7
SR - Front blind cover 400mm hinged	RAL 7035 (ABB Grey)	NHP 101323R6004	4,8
SR - Busbar connection module 60mm/400A		NHP 101194R0001	2,2
SR - Busbar connection module 185mm/400A		NHP 101193R0001	3,4

Common accessories

SR - MC 50 Main controller for EFM		NHP 303821R0001	1,2
SR - Front cover key		GMN 436770P0022	0,1
SR - Replacement tool		1SEP304128R0001	1,2
SR - Ventilated blind cover 50mm IP41	NCS 1704 (Beige)	NHP 405609R0001	0,8
SR - Ventilated blind cover 50mm IP41	RAL 7035 (ABB Grey)	NHP 405609R6001	0,8
SR - Ventilated blind cover 50mm IP41	Order qty 50 pcs each carton	NHP 405609R6050	
SR - Vent.b.cover 50mm IP41, without fix. matr.	Order qty 60 pcs each carton	NHP 405609R6060	
SR - Module guide rails 200mm for 50mm vent.bl. cover		NHP 200947R0002	1,3
SR - Module guide rails 400mm for 50mm vent.bl. cover		NHP 200947R0003	1,8
SR - SLM Blind cover 12,5 mm	RAL 7035 (ABB Grey)	1SEP407947R6001	
SR - SLM Blind cover 25 mm	RAL 7035 (ABB Grey)	1SEP407947R6002	
SR - SLM Blind cover 37,5 mm	RAL 7035 (ABB Grey)	1SEP407947R6003	
SR - Marking labels, 50 pcs		1SEP407969R0001	0,1

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8. Ordering tables, ITS



SlimLine SR00

Type designation	Item description	Order code	Weight Per Unit
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ITS

For DIN / NH Fuse links w/ 50 mm busbar distance

SR E00-50 3P IT2	160A 50 mm 3-pole ITS for cable lugs Depth 200 mm	NHP 100220R6043	4,0
SR E1-50 3P IT2	250A 50 mm 3-pole ITS for cable lugs Depth 200 mm	NHP 100221R6043	6,9
SR E2-50 3P IT2	400A 50 mm 3-pole ITS for cable lugs Depth 200 mm	NHP 100222R6043	16,5
SR E3-50 3P IT2	630A 50 mm 3-pole ITS for cable lugs Depth 200 mm	NHP 100223R6043	16,8
SR E00-50 3P IT4	160A 50 mm 3-pole ITS for cable lugs Depth 400 mm	NHP 100220R6033	5,8
SR E1-50 3P IT4	250A 50 mm 3-pole ITS for cable lugs Depth 400 mm	NHP 100221R6033	9,5
SR E2-50 3P IT4	400A 50 mm 3-pole ITS for cable lugs Depth 400 mm	NHP 100222R6033	25,9
SR E3-50 3P IT4	630A 50 mm 3-pole ITS for cable lugs Depth 400 mm	NHP 100223R6033	26,2

For BS links w/ 50 mm busbar distance

SR M160BS 50-3P IT2	160A 50mm BS 3-pole ITS for cable lugs Depth 200mm	NHP 100230R0443	4,2
SR M250BS 50-3P IT2	250A 50mm BS 3-pole ITS for cable lugs Depth 200mm	NHP 100231R0143	7,7
SR M400BS 50-3P IT2	400A 50mm BS 3-pole ITS for cable lugs Depth 200mm	NHP 100233R0143	16,6
SR M630BS 50-3P IT2	630A 50mm BS 3-pole ITS for cable lugs Depth 200mm	NHP 100233R0243	16,9
SR M160BS 50-3P IT4	160A 50mm BS 3-pole ITS for cable lugs Depth 400mm	NHP 100230R0433	6
SR M250BS 50-3P IT4	250A 50mm BS 3-pole ITS for cable lugs Depth 400mm	NHP 100231R0133	10,3
SR M400BS 50-3P IT4	400A 50mm BS 3-pole ITS for cable lugs Depth 400mm	NHP 100233R0133	26
SR M630BS 50-3P IT4	630A 50mm BS 3-pole ITS for cable lugs Depth 400mm	NHP 100233R0233	26,3

For DIN / NH Fuse links w/ 185 mm busbar distance

SR E00-185 3P IT2	160A 185 mm 3-pole ITS for cable lugs Depth 200 mm	NHP 100420R6043	4,0
SR E1-185 3P IT2	250A 185 mm 3-pole ITS for cable lugs Depth 200 mm	NHP 100421R6043	6,9
SR E2-185 3P IT2	400A 185 mm 3-pole ITS for cable lugs Depth 200 mm	NHP 100422R6043	16,5
SR E3-185 3P IT2	630A 185 mm 3-pole ITS for cable lugs Depth 200 mm	NHP 100423R6043	16,8
SR E00-185 3P IT4	160A 185 mm 3-pole ITS for cable lugs. Depth 400 mm	NHP 100420R6033	5,8
SR E1-185 3P IT4	250A 185 mm 3-pole ITS for cable lugs. Depth 400 mm	NHP 100421R6033	9,5
SR E2-185 3P IT4	400A 185 mm 3-pole ITS for cable lugs. Depth 400 mm	NHP 100422R6033	25,9
SR E3-185 3P IT4	630A 185 mm 3-pole ITS for cable lugs. Depth 400 mm	NHP 100423R6033	26,2

For BS links w/ 185 mm busbar distance

SR M160BS -185-3P-IT2	160A 185mm BS 3-pole ITS for cable lugs Depth 200mm	NHP 100430R0443	4,57
SR M250BS -185-3P-IT2	250A 185mm BS 3-pole ITS for cable lugs Depth 200mm	NHP 100431R0143	8,35
SR M400BS -185-3P-IT2	400A 185mm BS 3-pole ITS for cable lugs Depth 200mm	NHP 100433R0143	18,5
SR M630BS -185-3P-IT2	630A 185mm BS 3-pole ITS for cable lugs Depth 200mm	NHP 100433R0243	18,8
SR M160BS -185-3P IT4	160A 185mm BS 3-pole ITS for cable lugs Depth 400mm	NHP 100430R0433	6,37
SR M250BS -185-3P IT4	250A 185mm BS 3-pole ITS for cable lugs Depth 400mm	NHP 100431R0133	10,95
SR M400BS -185-3P IT4	400A 185mm BS 3-pole ITS for cable lugs Depth 400mm	NHP 100433R0133	27,9
SR M630BS -185-3P IT4	630A 185mm BS 3-pole ITS for cable lugs Depth 400mm	NHP 100433R0233	28,2

SlimLine

8. Ordering tables, ITS



Palmy display unit



Relayblock LCL 104

Type designation	Item description	Order code	Weight Per Unit
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ITS Equipment

SR-ITS Palmy display		1SEP304318R0002	
SR-ITS Relayblock LCL 104 with cable conn. Palmy-LCL 104		1SEP304318R0003	
SR-ITS Palmy mount.plate w/ cut out	Metal plate in Aluzink	1SEP408122R0001	
SR- ITS Cable connection SR ITS Palmy	L=3000 mm	1SEP407929R0001	0,1
SR-ITS Cable connection SR ITS - SR ITS,	L=500 mm	1SEP407797R0001	0,1
SR-ITS Cable connection SR ITS - SR ITS,	L=1000 mm	1SEP407797R0002	0,1

Explanation:

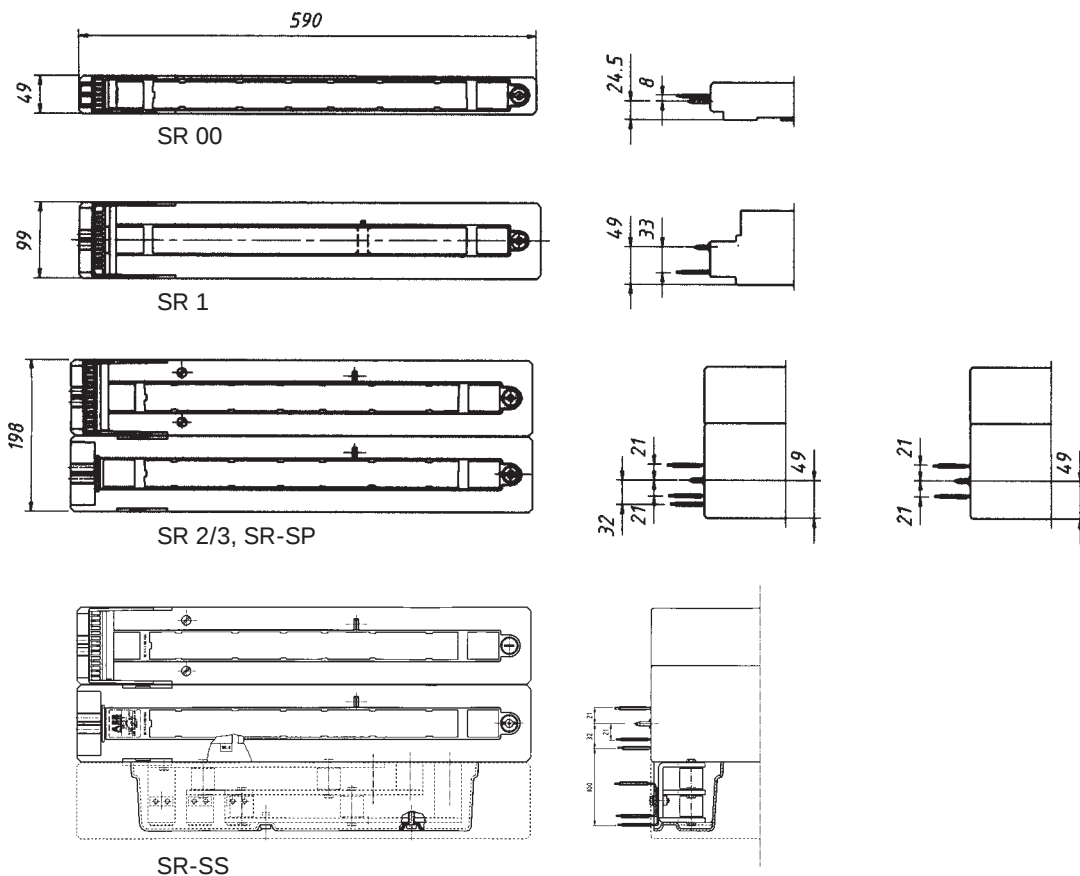
SR	E / M / B	00 / 1 / 2 / 3	ITS	50 / 185	DC / 3P / 4P	EFM	Depth
Family	Type	Size	Intelligent Tier Switch	Distance between phases	Number of poles	Electronic fuse monitoring	200/400 mm

SlimLine

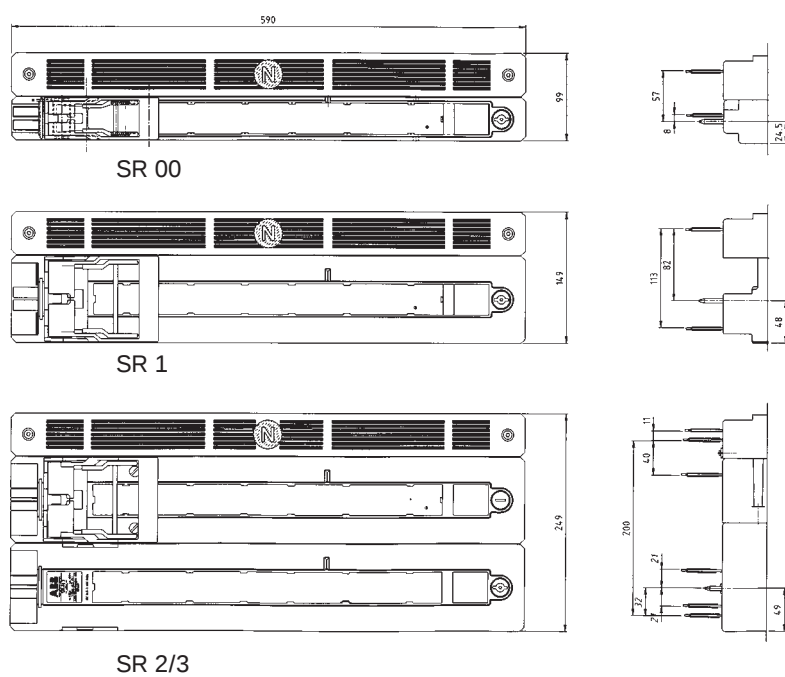
9. Dimensional drawings

SlimLine front / side view

3 pole / 2 pole



4 pole

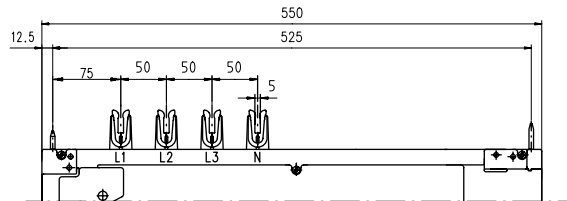


SlimLine

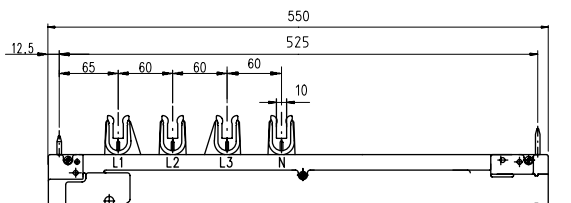
9. Dimensional drawings

SlimLine distance between busbars (top view)

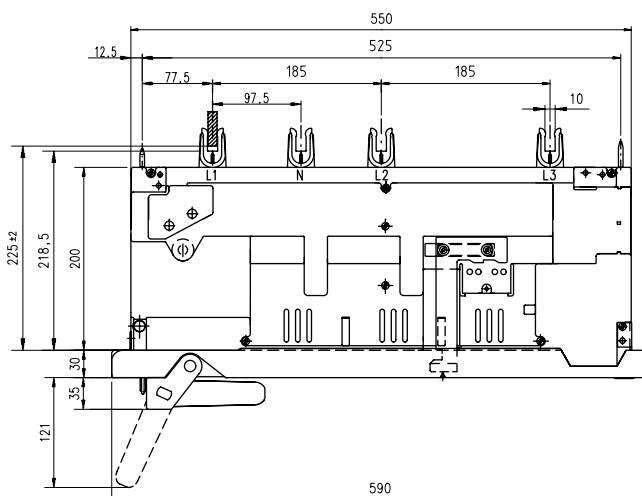
AC versions 3 and 4 pole



Distance between busbars: 50 mm

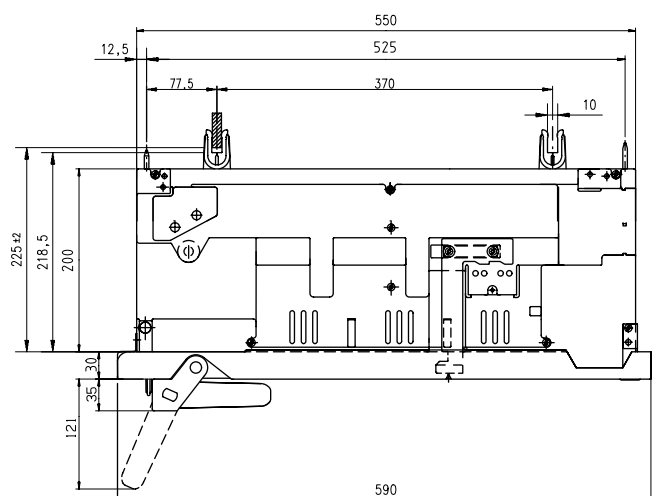


Distance between busbars: 60 mm



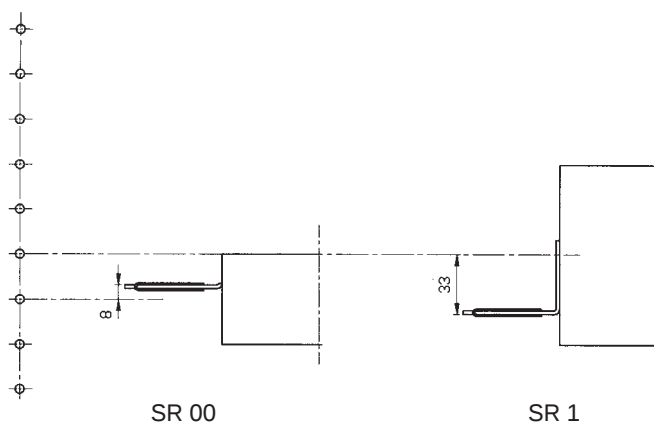
1SEB000118

Distance between busbars: 185 mm



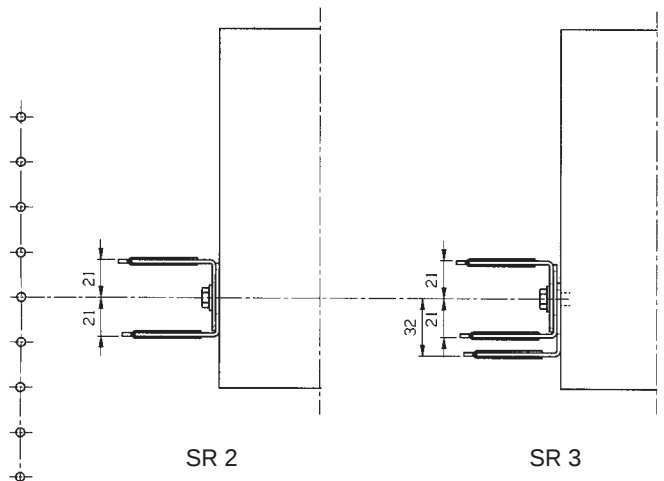
1SEB000119

Position of the contact fingers



SR 00

SR 1



SR 2

SR 3

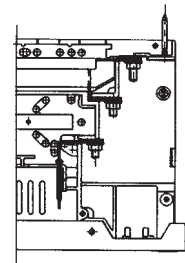
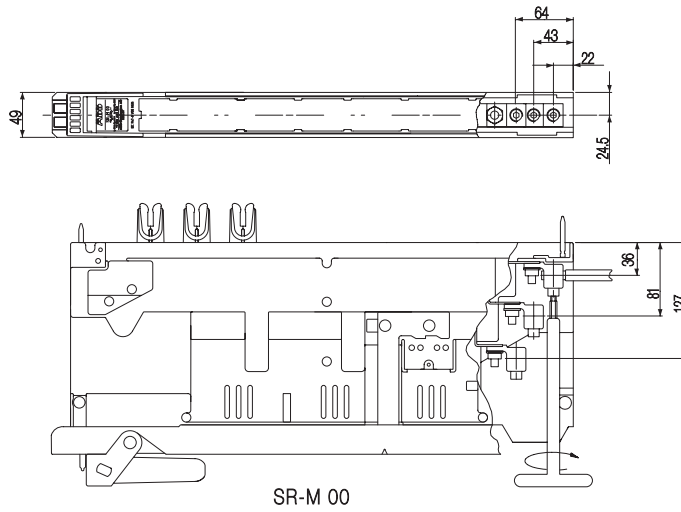
SlimLine

9. Dimensional drawings

SlimLine cable connection

SR 00

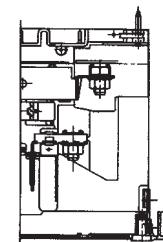
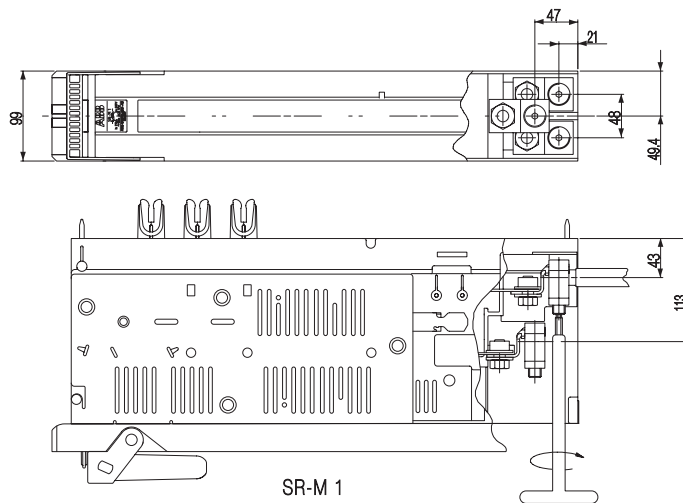
with cable clamps



for cable lugs

SR 1

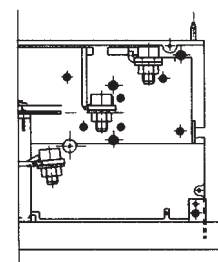
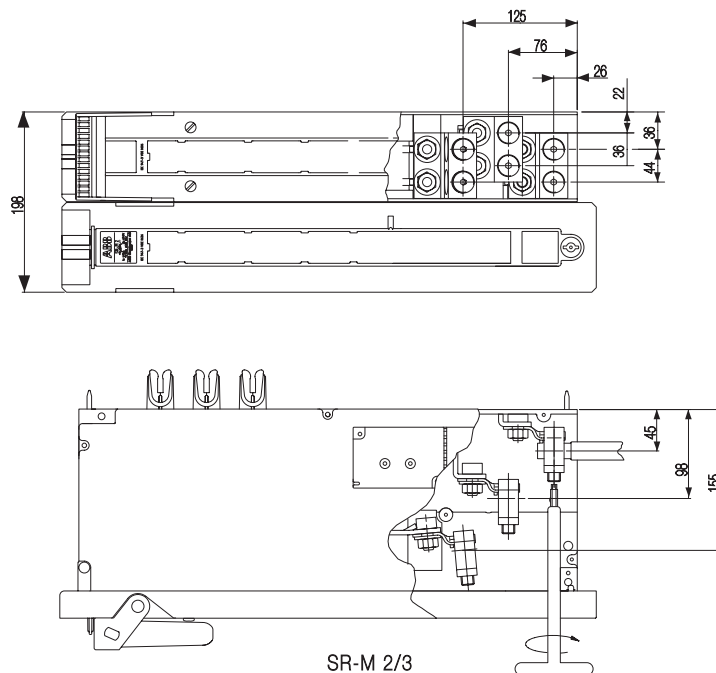
with cable clamps



for cable lugs

SR 2 / 3

with cable clamps



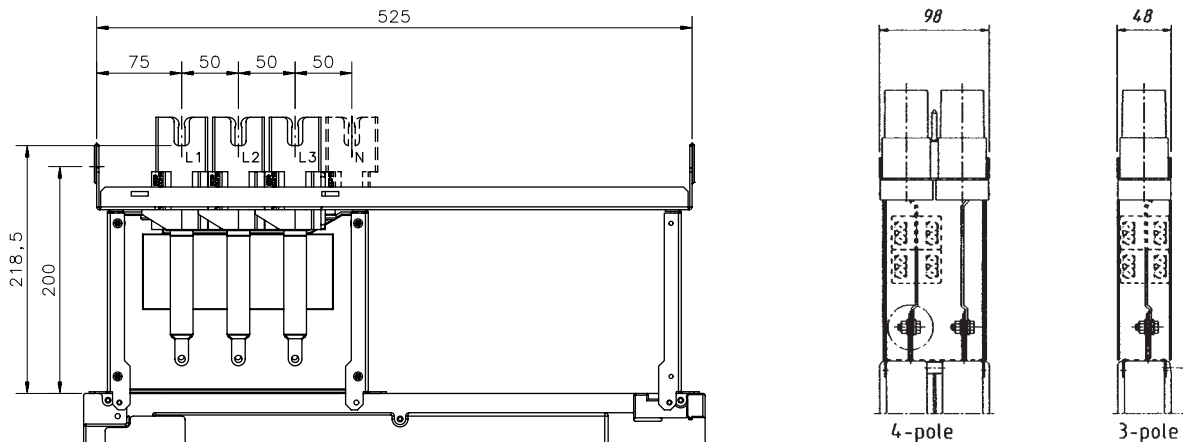
for cable lugs

SlimLine

9. Dimensional drawings

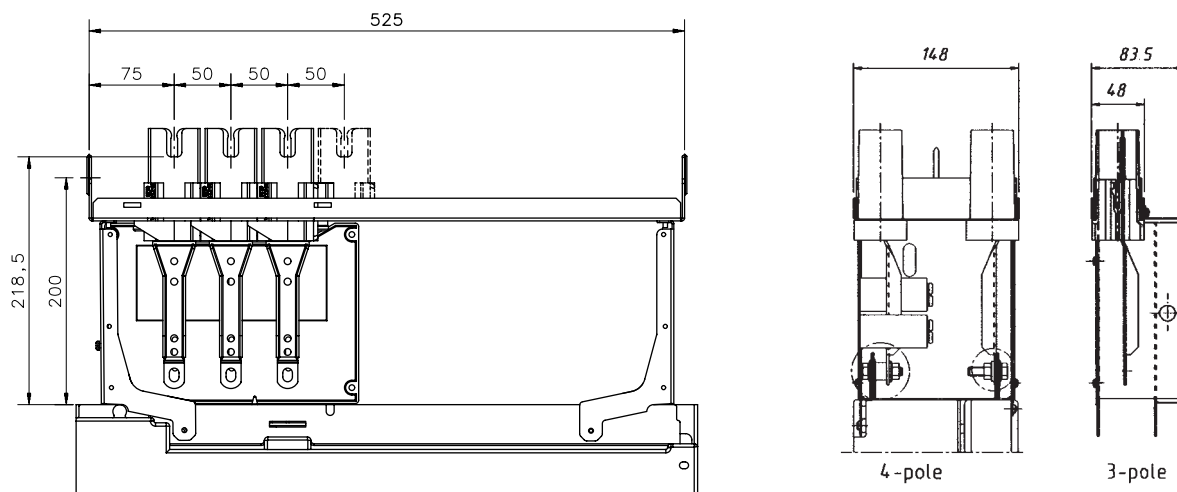
SlimLine contact extension

SR 00, 50 mm distance between phases



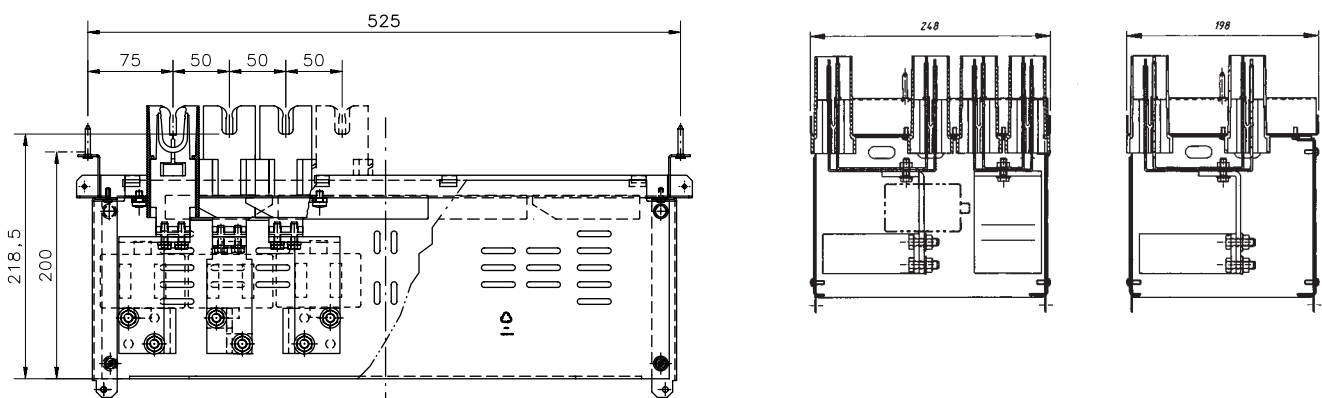
1 SEB000067

SR 1, 50 mm distance between phases



1 SEB000068

SR 2 / 3, 50 mm distance between phases



1 SEB000069

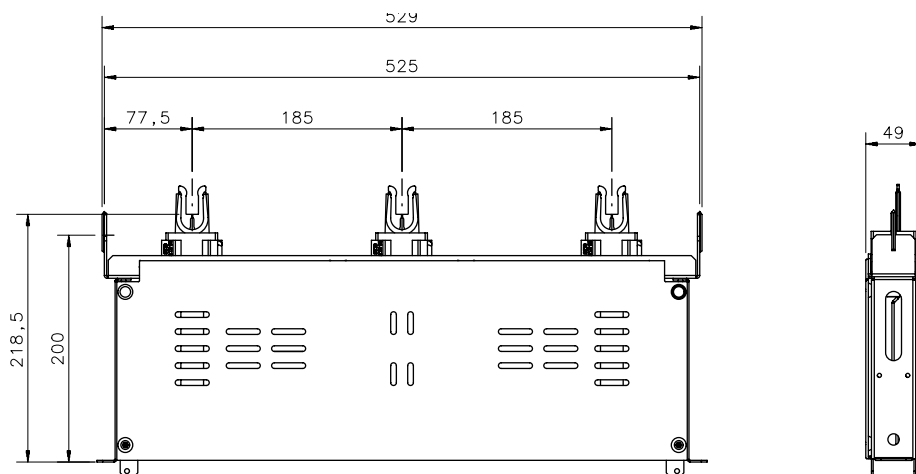
ABB

SlimLine

9. Dimensional drawings

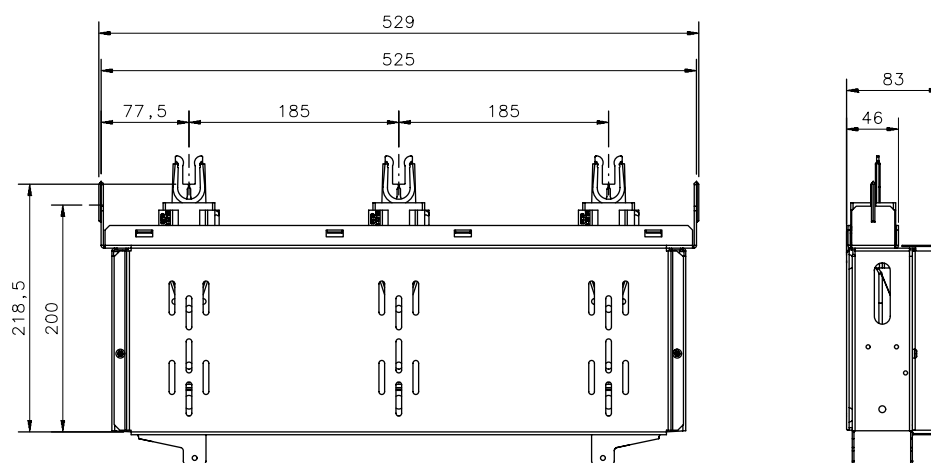
Contact extension

SR 00, 185 mm distance between phases



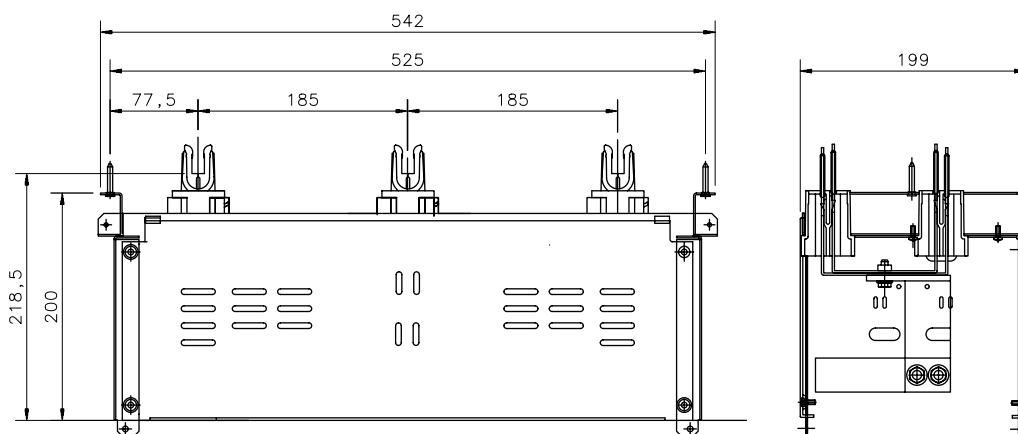
1SEB000070

SR 1, 185 mm distance between phases



1SEB000071

SR 2/3, 185 mm distance between phases



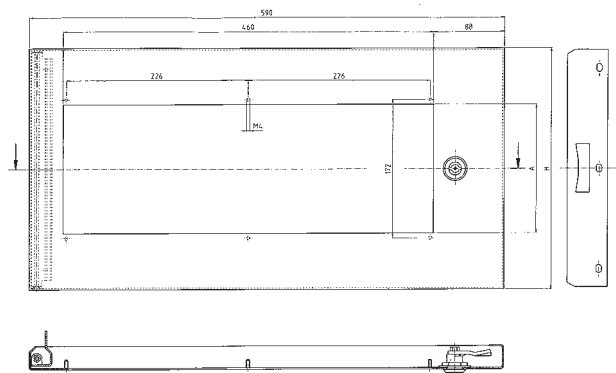
1SEB000072

SlimLine

9. Dimensional drawings

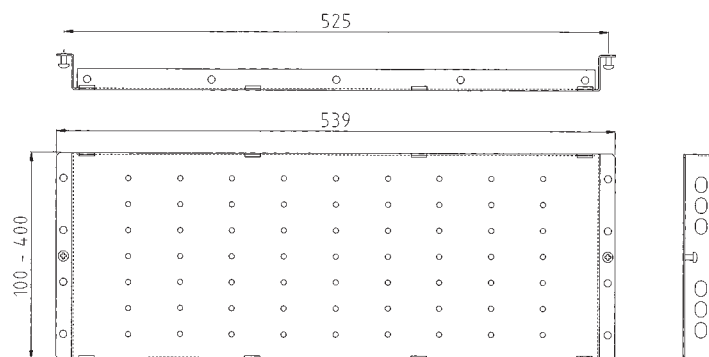
SlimLine Servicemodule

Blind cover complete H: 100-400 mm

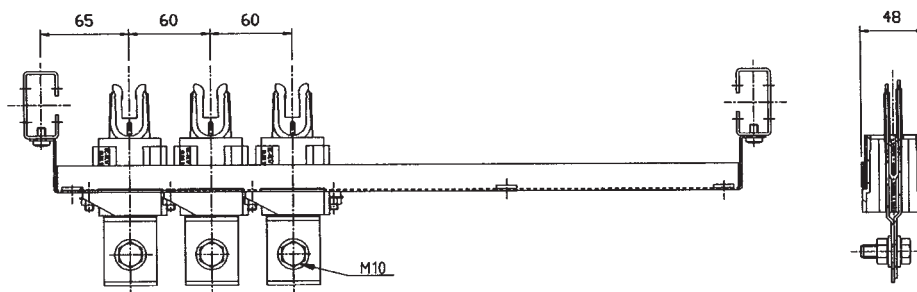


H	A
100	60
200	160
300	160
400	160

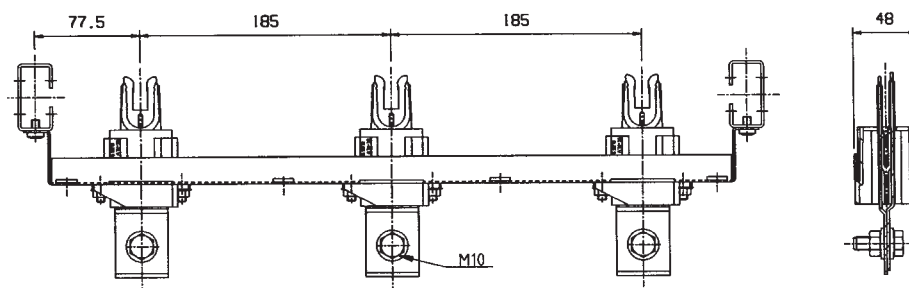
Mounting plate 100-400 mm



Busbar connection module 400 A



60 mm distance between busbars



185 mm distance between busbars

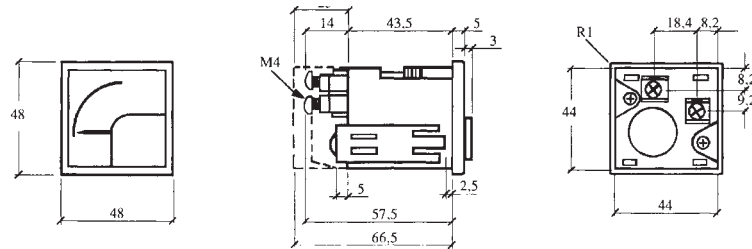
SlimLine

9. Dimensional drawings

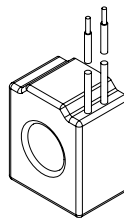
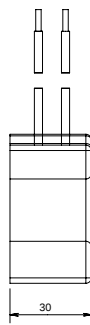
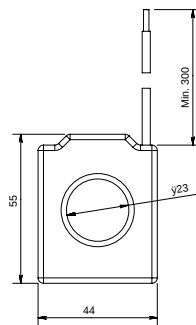
Ammeters and current transformers for SlimLine

CEWE QB 48 maximum demand ammeters

Id. no. NHSN 71005P....

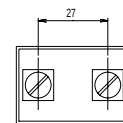
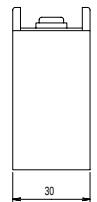
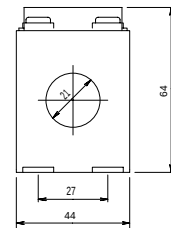


Current transformer, SR 00 ASG 210.3



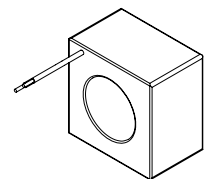
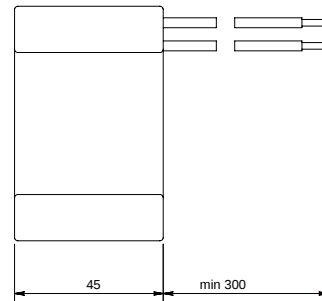
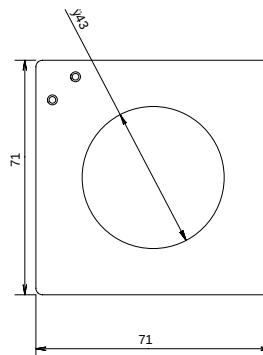
NHP 1 SEB000029

ASR 201.3



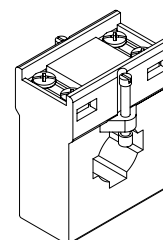
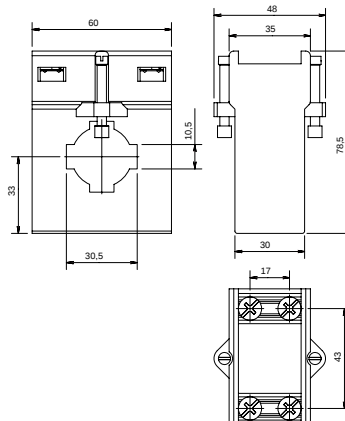
1SEP407499

Current transformer, SR 1 ASR 42.45



1SEB000030

Current transformer, SR 2/3 ASK 31.3



1SEB000031



ISO 9001 Certified



Certificate no.000000

ISO 14001 Certified



Certificate no.000000

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