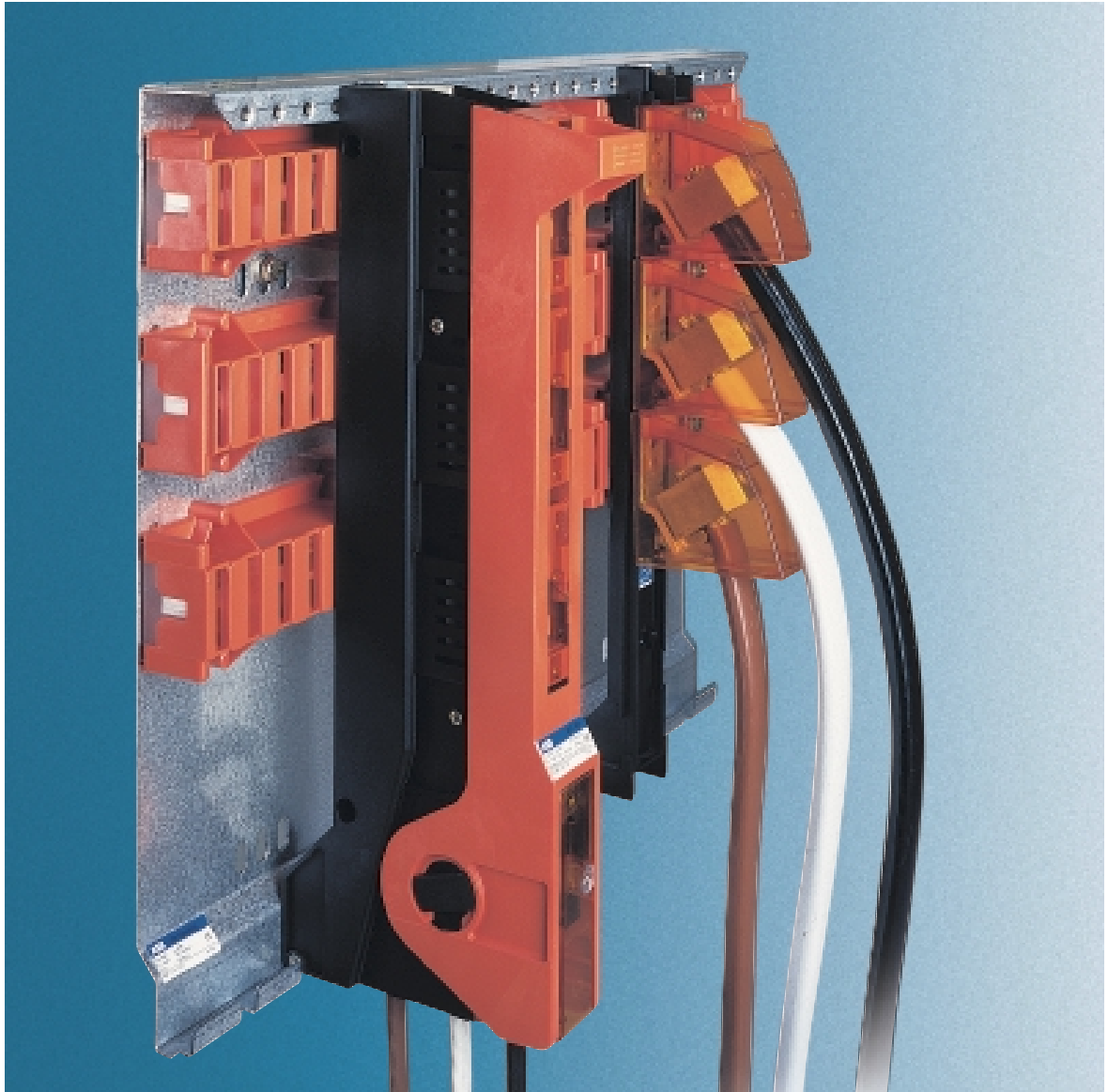


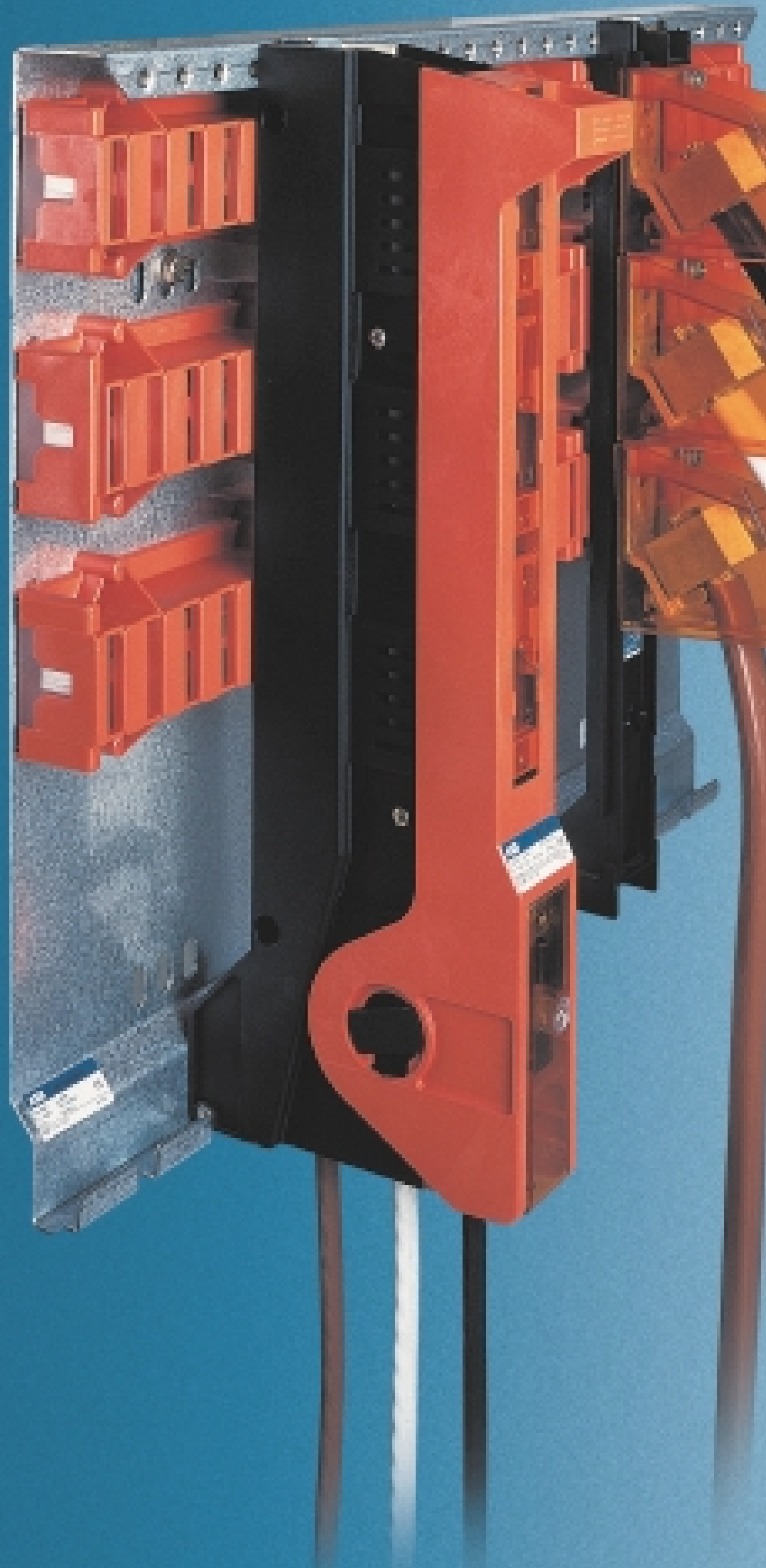
FastLine

Distribution System

400–2500 A



ABB





Contents

General

1

Description

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Module types

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FastLine

1. General

General

The distribution system FastLine is a modular system consisting of a busbar assembly plate with plug in modules as incoming and outgoing circuits.

Properties of FastLine

- Complete distribution system up to 2500 A
- Very fast and easy assembly
- Modular design
- Personal safety, IP 20
- Modern cable connection technology for Al and Cu cables
- Integrated IP 20 degree of protection
- Flexibility by use within several areas
- Typetested in accordance with IEC / EN 60947-3
- Developed and produced in accordance to ISO 9001
- Easy to recycle in accordance with ISO 14001 standards

Areas of application

- Cable distribution cabinets (CDC)
- Installation
- Low voltage distribution in transformer substations
- Switchboards for industry, housing and office buildings
- FastLine is also approved for horizontal assembly

FastPlan

- software for FastLine

FastPlan is a software for planning and document applications where FastLine/SLK is being used.

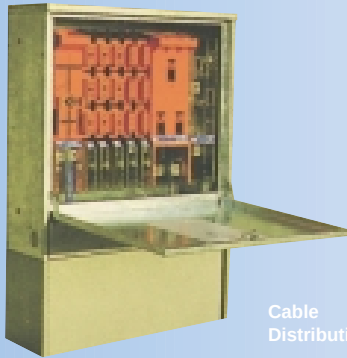
With FastPlan you have the possibility to make a fast and simple arrangement where the result is:

- Front view drawing
- Single line diagram
- Material list

These can all be printed and used for documentation, requests, offers, orders or circuit list in cabinets, secondary substations or installations.

FastPlan may be installed on PC's having Windows® 95/98/2000 or the NT operating system. One of the challenges of distributing software has been to keep track of the users and ensure that the latest program updates are being sent out. In FastPlan we will solve this problem by sending out the first release on a CD. All future updates will automatically be made via the Internet.

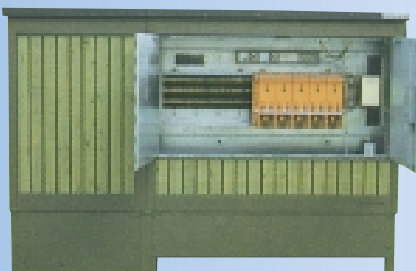
FastPlan is available free of charge and may be used by both sales people and customers.



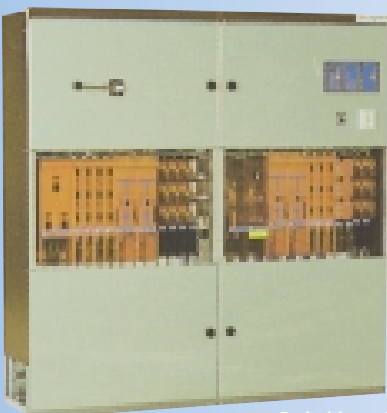
Cable
Distribution Cabinet



Installation



Transformer substations



Switchboards

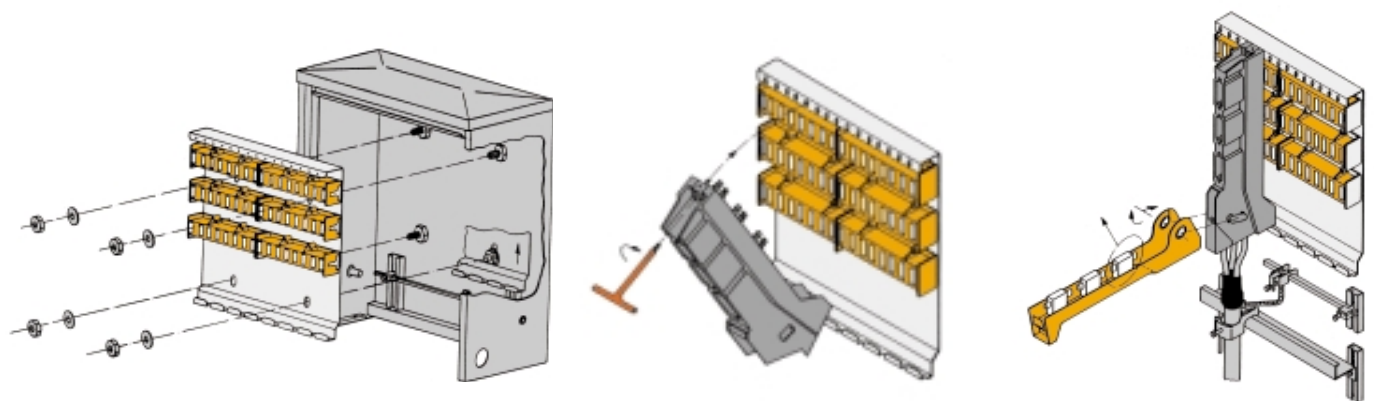
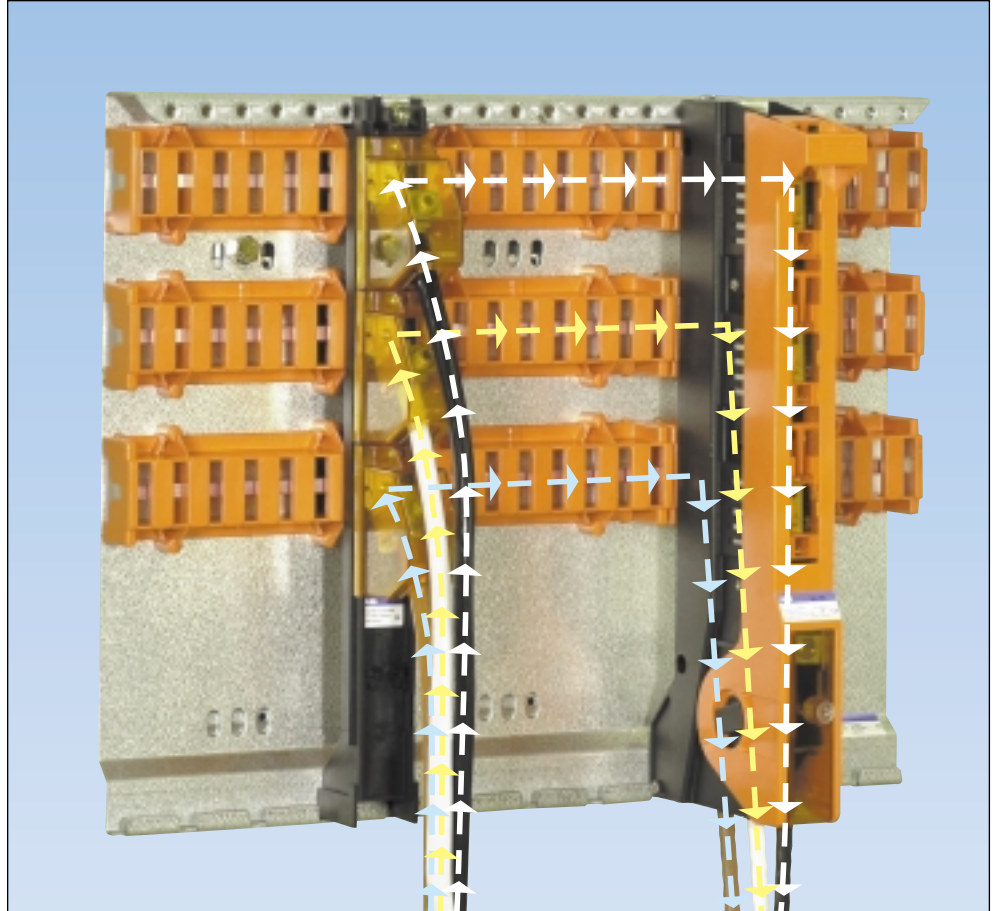
FastLine

2. Description

FastLine - A LEGO system for the smart engineer

The FastLine distribution system is a modular system consisting of :

- Busbar assembly plates type FS, FD, FM or FST
- Direct incomer modules
- Incomer modules with disconnecting function
- Fuse switch disconnecter modules
- Fuse switch modules, single poles
- SLK-E adapters for ISOMAX



1: FS busbar assembly plate bolted into a cable distribution cabinet

2: Plus the module into the FS, FD, FM or FST busbar assembly plate

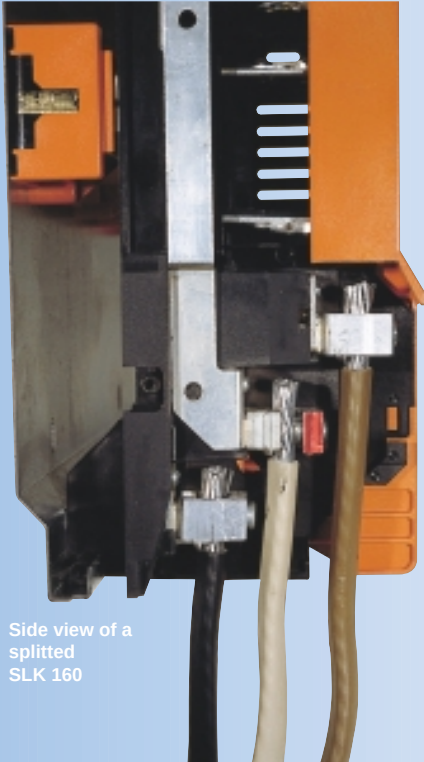
3: Connect the cables
4: Hook the front cover with fuses on the base and switch in to ON position

FastLine

2. Description



V-shaped cable terminal
used in SLK 160



Side view of a
splitted
SLK 160

Modern cable termination

During the development of the FastLine product range, focus was dedicated on the technique of the cable terminals.

Based on many years of experience from the end users daily situations. The different modules has been developed with the most optimal cable terminal technique available for easy installation.

Neutral bar

A separate PEN Cu bar can be provided. It is a 10x30 mm tinplated Cu bar with bolt connection for PEN/PE clamps in steps of each 50 mm. It is used together with a FS / FD / FM assembly plate up to 630 A for the neutral/ earthing connection.

The bar includes:

- 1 Cu bar tinplated.
Width = 350 - 1100 mm
- 2 metalbrackets with bolts / washers
- 2 folding marking labels:
Side 1 for PEN indication : Yellow / Green / Blue
Side 2 for PE indication : Yellow / Green
- 2 strips

Applications for the neutral bar:

PEN : in 400 V TN-C system
PE : in 230 V
N : by using 2 neutral insulators
(GZN 560029P0016)

FastLine

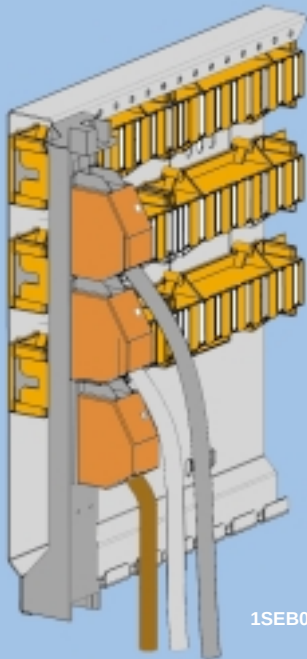
2. Description

How to feed the Busbar plates

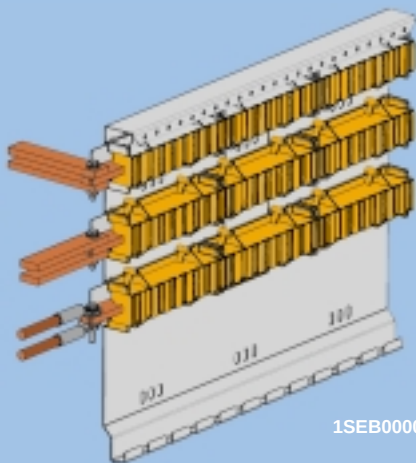
FS, FD, FM

From front by use of:

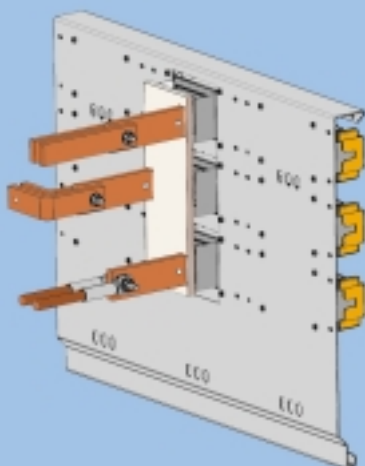
- Direct incomer modules page 12
- Modules with disconnecting function page 13
- Circuit breaker in adapter page 17
- Fuse switch disconnecter page 14



1SEB000023



1SEB000024



1SEB000025

FS - SR/SL

- From side R (right) or L (left) by your own cu-bars or cables.

FS - R

- From rear side by your own cu-bars or cables.

FastLine

2. Description

How to feed the Busbar plates

FST

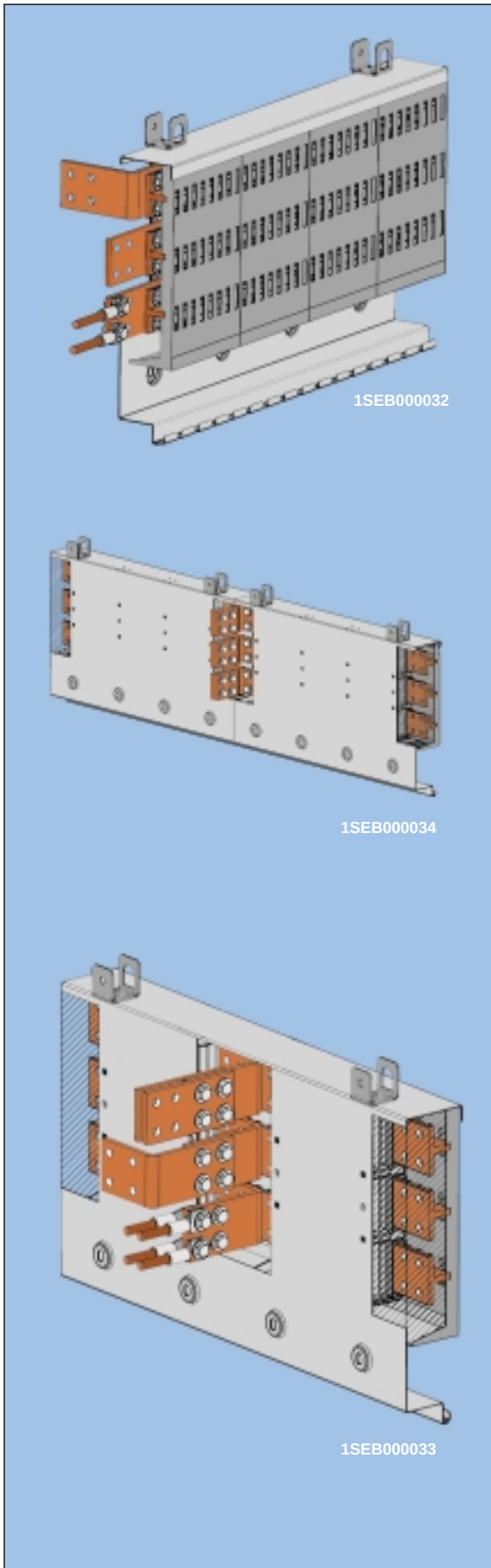
From front by use of:

- Direct incomer modul page 12
- With disconnection function page 13
- Circuit breaker in adapter page 17
- FST-links at page 11

- 2xFST with FST links S/B rear side connection.

FST-R

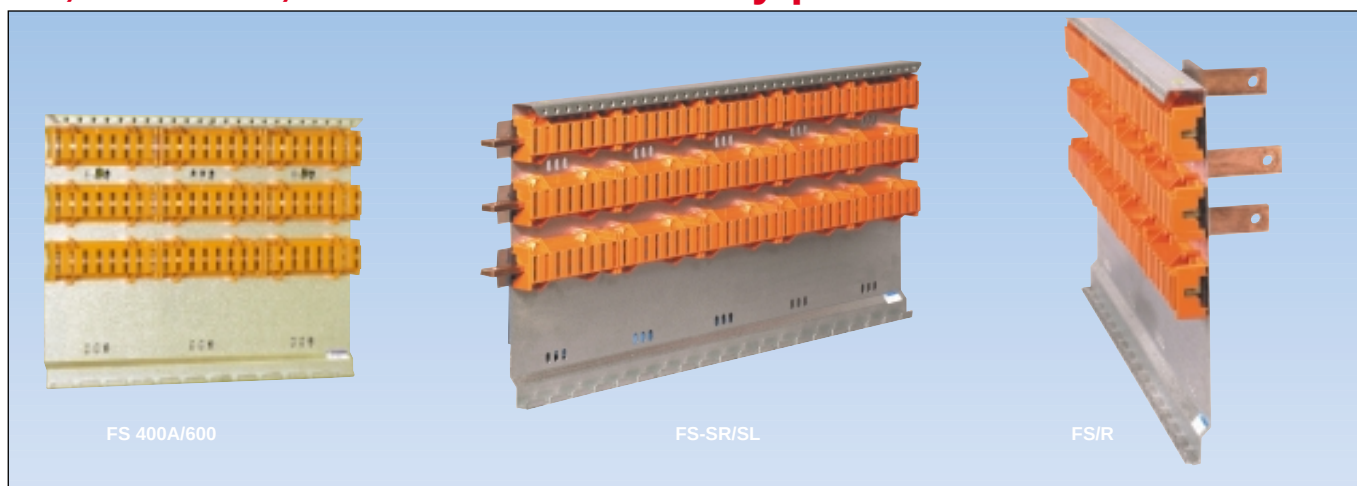
- From rear side by your own cu bars or cables.



FastLine

3. Module types

FS, FS-SR/SL, FS-R busbar assembly plates



The busbar assembly plates are delivered as shown above.

The FS busbar assembly plate is the base for all types of SLK plug in modules

FS	Rated current	Width ¹⁾	Order code
FS 400 A/150	400 A	150 mm	NHP 406455R0001
FS 400 A/250	400 A	250 mm	NHP 139201R0001
FS 400 A/400	400 A	400 mm	NHP 139202R0001
FS 400 A/600	400 A	600 mm	NHP 139203R0001
FS 630 A/400	630 A	400 mm	NHP 139212R0001
FS 630 A/600	630 A	600 mm	NHP 139213R0001
FS 630 A/800	630 A	800 mm	NHP 139214R0001
FS 630 A/1000	630 A	1000 mm	NHP 139215R0001
FS 1200 A/600	1200 A	600 mm	NHP 139216R0001
FS 1200 A/800	1200 A	800 mm	NHP 139217R0001
FS 1200 A/1000	1200 A	1000 mm	NHP 139218R0001

1) Assembly plate width denotes available space for modules.

Ex.: There is space for 5 fuse modules each 50 mm on a 250 mm assembly plate.

The FS busbar assembly plate has bolted side connection

FS-SR/SL	Rated current	Width	Order code
FS-SR 630A/250	630 A	250 mm	1SEP201480R0001
FS-SL 630A/250	630 A	250 mm	1SEP201480R0002
FS-SR 630A/400	630 A	400 mm	1SEP201475R0001
FS-SL 630A/400	630 A	400 mm	1SEP201475R0002
FS-SR 630A/600	630 A	600 mm	1SEP201468R0001
FS-SL 630A/600	630 A	600 mm	1SEP201468R0002
FS-SR 630A/800	630 A	800 mm	1SEP201469R0001
FS-SL 630A/800	630 A	800 mm	1SEP201469R0002
FS-SR 630A/1000	630 A	1000 mm	1SEP201470R0001
FS-SL 630A/1000	630 A	1000 mm	1SEP201470R0002
FS-SR 1200A/1600	1200 A	1600 mm	1SEP201513R0001
FS-SL 1200A/1600	1200 A	1600 mm	1SEP201513R0002

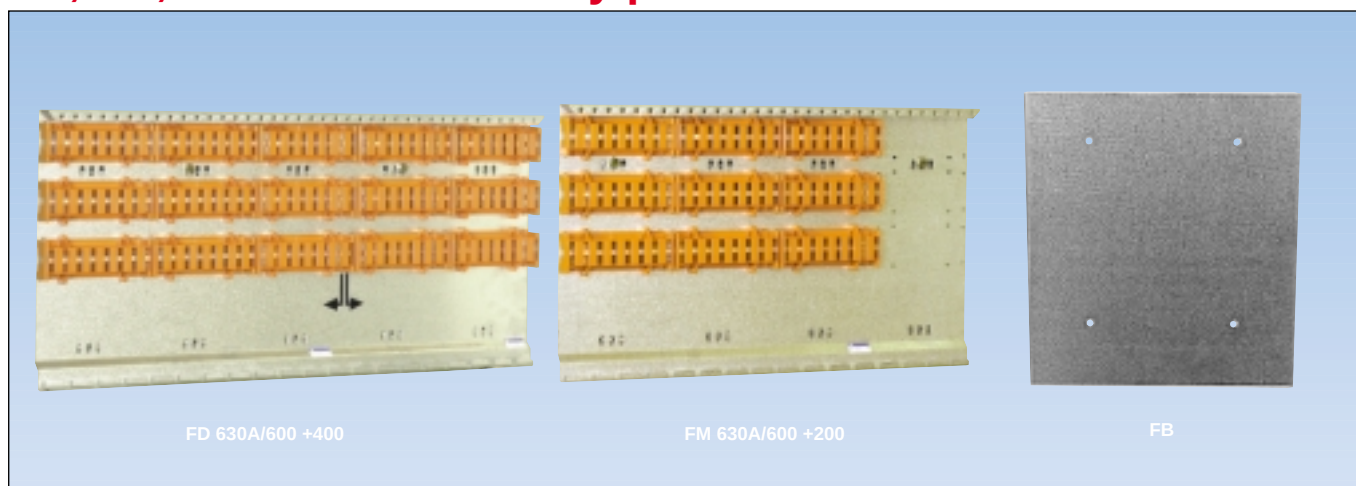
The FS busbar assembly plate has rear connection

FS-R	Rated current	Width	Order code
FS-R 630 A/400	630 A	400 mm	1SEP201476R0001
FS-R 630 A/600	630 A	600 mm	1SEP201471R0001
FS-R 630 A/800	630 A	800 mm	1SEP201472R0001
FS-R 630 A/1000	630 A	1000 mm	1SEP201473R0001

FastLine

3. Module types

FD, FM, FB busbar assembly plates



The FD busbar assembly plate has sectionalized busbars

FD	Rated current	Width	Order code
FD 630 A/200+200	630A	400 mm	1SEP304282R0001
FD 630 A/400+400	630 A	800 mm	1SEP304262R0001
FD 630 A/600+400	630 A	1000 mm	1SEP304261R0001

The FM busbar assembly plate has additional space at the right hand side for extra installations

FM	Rated current	Width	Order code
FM 630 A/200+200	630 A	400 mm	1SEP304282R0001
FM 630 A/400+200	630 A	600 mm	1SEP304264R0001
FM 630 A/400+400	630 A	800 mm	1SEP304265R0001
FM 630 A/600+200	630 A	800 mm	1SEP304263R0001
FM 630 A/600+400	630 A	1000 mm	1SEP304306R0001

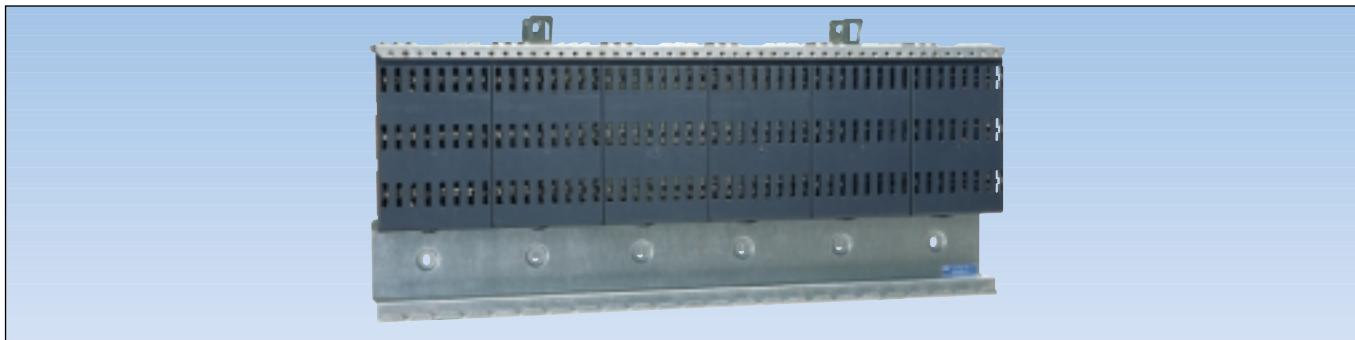
The FB assembly plate is the basic metal sheet from FS, but without busbars for extra installations

FB	Rated current	Width	Order code
FB 350	-	350 mm	NHP 350802R0001
FB 500	-	500 mm	NHP 350802R0002
FB 700	-	700 mm	NHP 350802R0003
FB 900	-	900 mm	NHP 350802R0004
FB 1100	-	1100 mm	NHP 350802R0005

FastLine

3. Module types

FST busbar assembly plate system



The busbar assembly plates are delivered as shown above.

The FST busbar assembly plate is the base for all types of SLK plug in modules

FST	Rated current	Width	Order code
FST 1200A/ 800	1200 A	800 mm	NHP 139243R0001
FST 1200A/1200	1200 A	1200 mm	NHP 139247R0001
FST 1600A/ 800	1600 A	800 mm	NHP 139241R0001
FST 1600A/1200	1600 A	1200 mm	NHP 139245R0001
FST 2500A/ 800	2500 A	800 mm	NHP 139242R0001
FST 2500A/1200	2500 A	1200 mm	NHP 139246R0001
FST-R 2500A/800 ¹⁾	2500 A	800 mm	NHP 139248R0001
FST-R 2500A/1200 ¹⁾	2500 A	1200 mm	NHP 139249R0001

1) Only for connection from the rear in the middle of the busbars. FST links, screws and washers are included.

FST accessories :

FST-link 1600 S/B	FST-link 1600 S	FST-link 1600 E/B	FST-link 1600 E
Feeding from rear side between 2 pcs FST 1200A/1600 A assembly plates Order code: NHP 403073R001	Cu link between 2 pcs FST 1200A/1600 A assembly plates Order code: NHP 403073R002	Feeding from rear side at end of FST 1200A/1600 A assembly plate Order code: NHP 403073R003	Feeding from end of FST 1200A/1600 A assembly plate Order code: NHP 403073R004

FST-link 2500 S/B	FST-link 2500 S	FST-link 2500 E/B	FST-link 2500 E
Feeding from rear side between 2 pcs FST 2500 A assembly plates Order code: NHP 403070R001	Cu link between 2 pcs FST 2500 A assembly plate Order code: NHP 403070R002	Feeding from rear side at end of FST 2500 A assembly plate Order code: NHP 403070R003	Feeding from end of FST 2500 A assembly plates Order code: NHP 403070R004

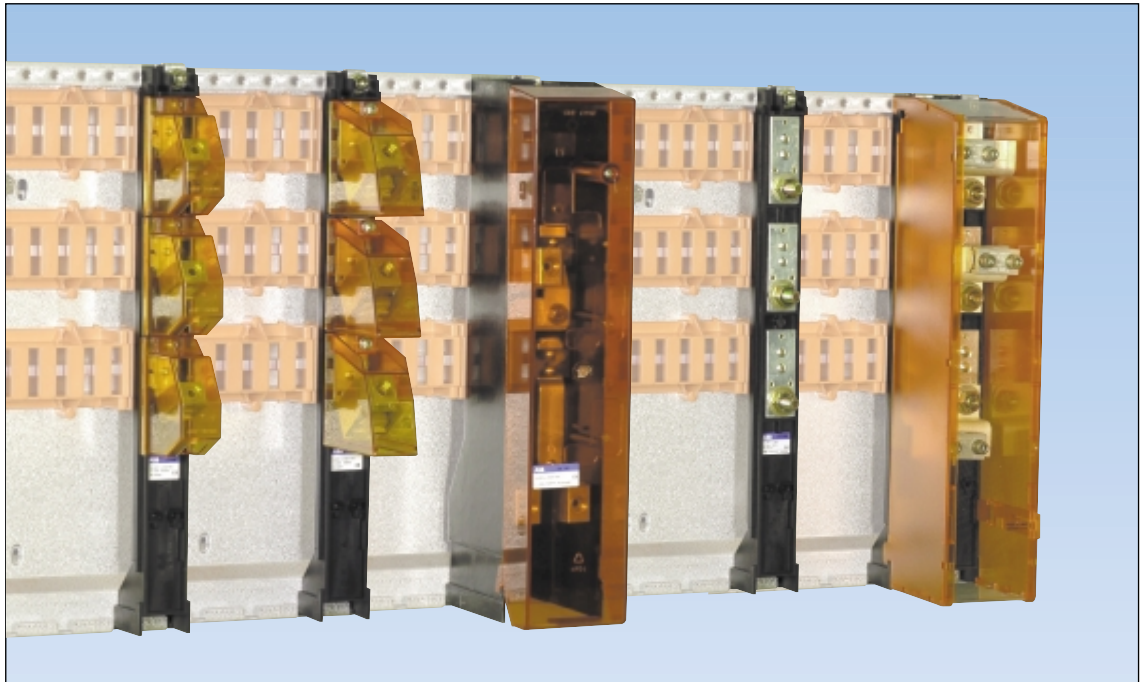
FST-link 1200/1600 A
NHP 200711R001 Feeding from end of FST for current transformer 1200/1600 A assembly plates Order code: NHP 200711R001

FST Mounting kit
The kit includes : • PE/PEN bar • Cable holder bar • Insulators • Expansion bolts for concrete wall • Washers, nuts, bolts • Installation instruction. Note: FST plate to be ordered separately
FST 1200-2500 A / 800 Order code: 1SEP407703R001 FST 1200-2500 A / 1200 Order code: 1SEP407704R001

FastLine

3. Module types

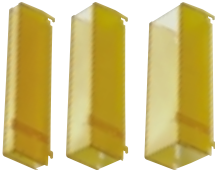
Direct incomer modules



The modules are delivered as shown above.

	DK 95	DK 240 / 50	DK 240 / 100	DS 400	DK 300
Rated current	250 A	400 A	400 A	400 A	800 A
Module width	50 mm	50 mm	100 mm	50 mm	100 mm Cable
Al / Cu	10 - 95 mm ²	95 - 240 mm ²	95 - 240 mm ²		120 - 300 mm ²
Cable terminal	Clamps	Clamps	Clamps	M 12 bolts	Clamps
Order code	NHP 139226R0001	NHP 100009R0001	NHP 139227R0001	NHP 139230R0001	NHP 139228R0001
Special description				Can be linked together by copper links 2xDS 400 = 800 A 3xDS 400 = 1200 A	

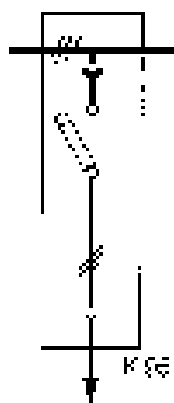
Module accessories :

	For DK 95	For DK 240/ 50	For DK 240/100	For DS 400	For DK 300
				 Copper links	
				 Protection cover	

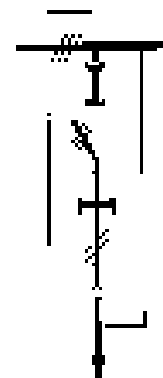
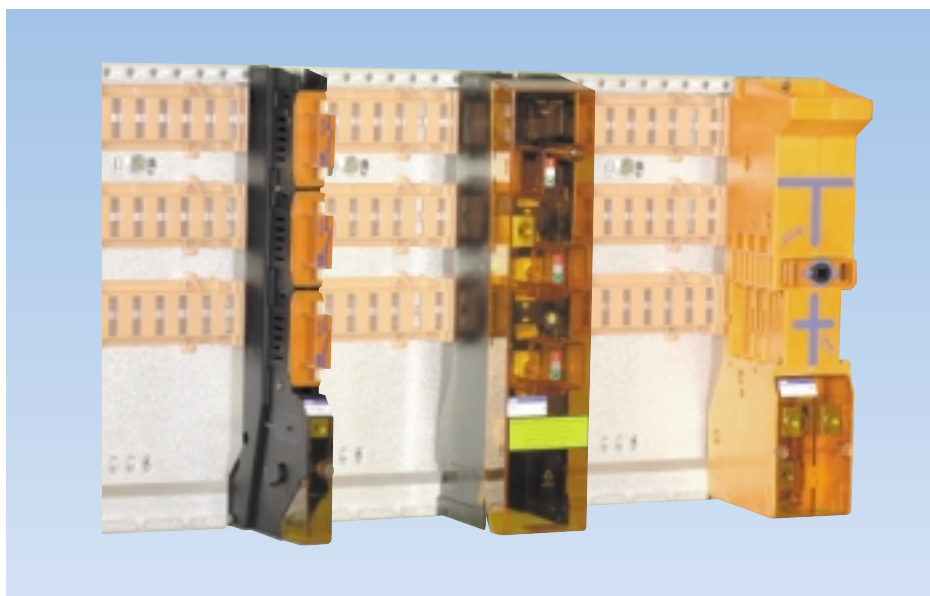
FastLine

3. Module types

Incomer modules with disconnecting function



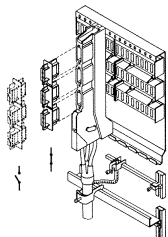
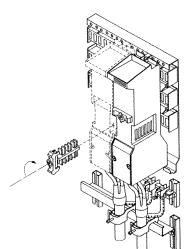
K 95 / K 240



MP 240

3

The modules are delivered as shown above.

	K 95	K 240	MP 240
Rated current	250 A	400 A	400 A
Module width	50 mm	100 mm	100 mm
Cable Al / Cu	10 - 95 mm ²	95 - 240 mm ²	95 - 240 mm ²
Cable terminal	Clamps	Clamps	Clamps
Order code	NHP 139220R0001	NHP 139221R0001	NHP 139222R0001
Special description			Bypass connection by using 2 modules MP 240 

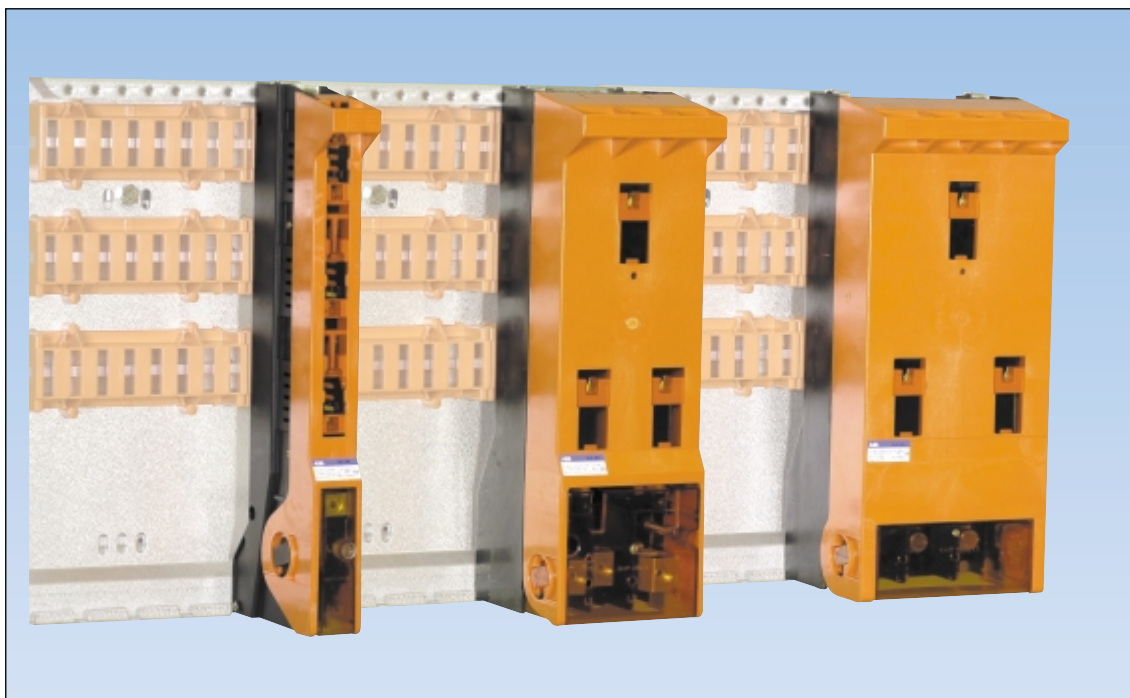
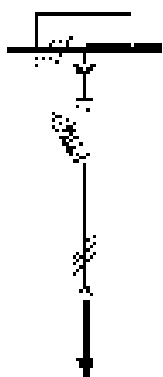
Module accessories :

For K 95	For K 240	For MP 240
 Earthing front cover KJK 95	 Earthing front cover KJK 240	 Operating handle  Earthing front cover KJM 240  Extra switch element

FastLine

3. Module types

Fuse switch disconnecter modules



The modules are delivered as shown above.

	SLK 160	SLK 400	SLK 630
Fuse link	NH 00	NH 1 - 2	NH 3
Rated current	160 A	400 A	630 A
Module width	50 mm	150 mm	200 mm
Cable Al / Cu	10 - 95 mm ²	95 - 240 mm ²	2 x 120 - 300 mm ²
Cable terminal	Clamps	Clamps	M 12 bolts
Order code	NHP 139224R0001	NHP 139225R0001	NHP 139235R0001
Special description			

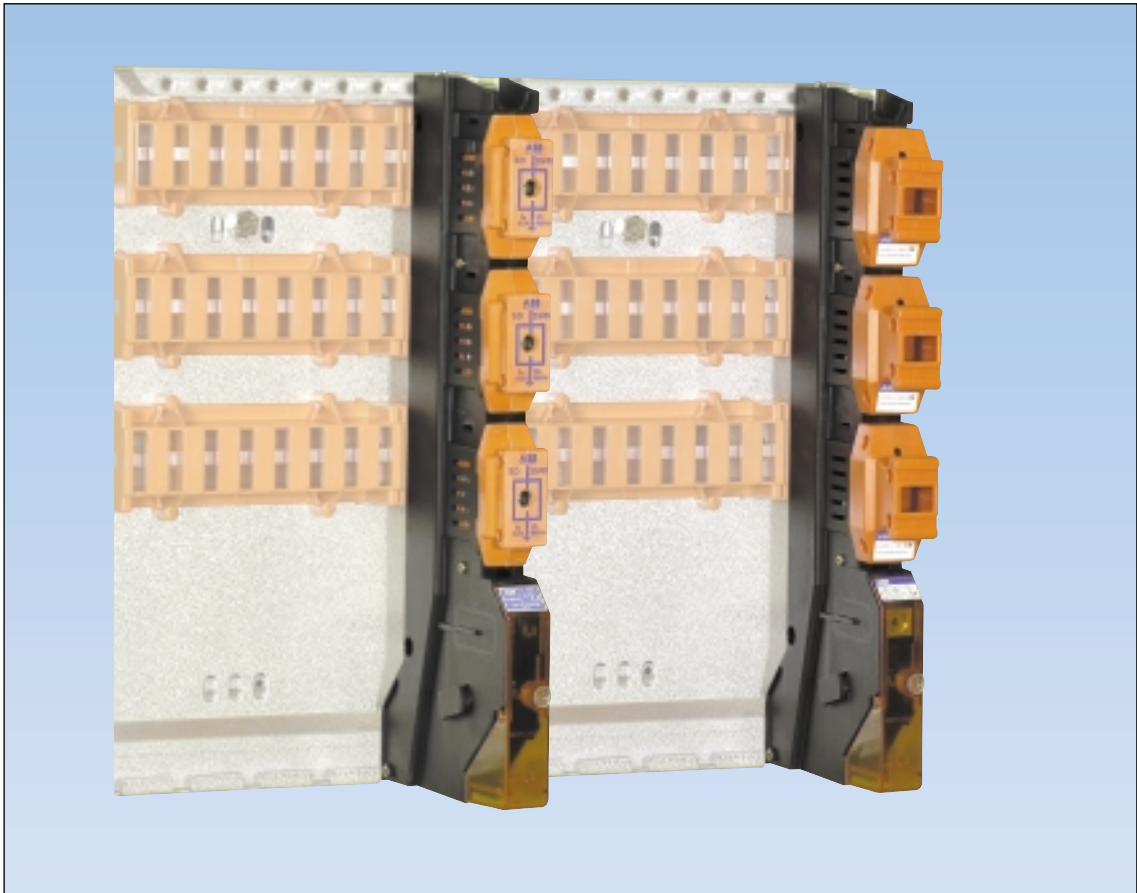
Module accessories :

For SLK 160	For SLK 400	For SLK 630
 Earthing front cover KJK 95	 Earthing front cover KJS 240	 Cable terminal single 70 - 240 mm²  Cable terminal single 120 - 300 mm²  Cable terminal double 2 x 120 - 300 mm²

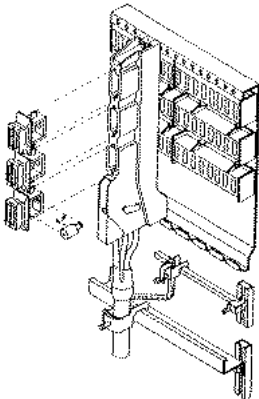
FastLine

3. Module types

Fuse switch modules, single poles



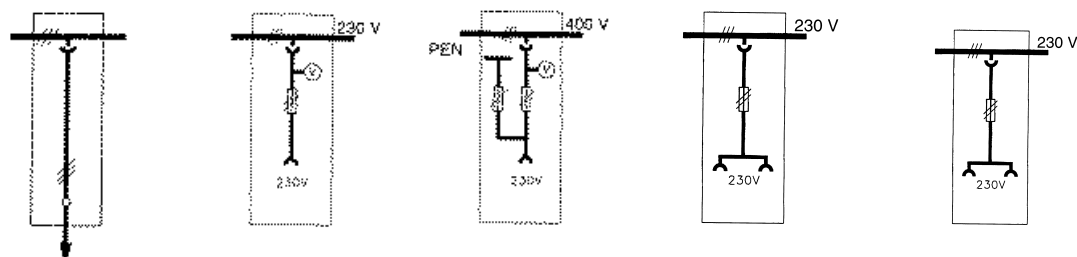
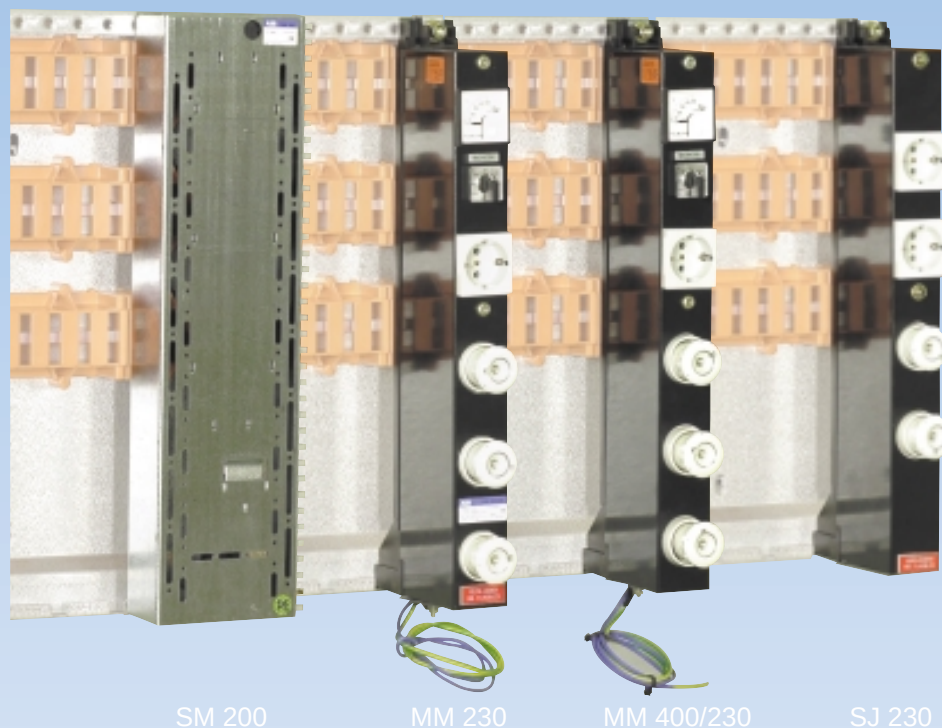
The modules are delivered as shown above.

	SLKD 63	SLK-NH 160
Fuse link	Diazed D II-25 A / D III-63 A	NH 00
Rated current	63 A	160 A
Module width	50 mm	50 mm
Cable Al / Cu	6 - 50 mm ²	10 - 95 mm ²
Cable terminal	Clamps	Clamps
Order code	NHP 139225R0001	NHP 139238R0001
Special description		

FastLine

3. Module types

Service modules



The modules are delivered as shown above.

	SM 200	MM 230	MM 400 / 230	S 230	SJ 230
Rated current	200 A	16 A	16 A	16 A	16 A
Module width	150 mm	50 mm	50 mm	50 mm	50 mm
Cable Al / Cu					
Cable terminal					
Order code	NHP 139237R0001	NHTF001990R0001	NHTF001990R0002	NHTF001990R0003	NHTF001990R0004
Special description	Module for your own arrangement	Module for 230 V system The module includes: 3 Fuseholders 1 Contact 16A w/ earth 1 Voltmeter 0-250 V w/ switch	Module for 400 V system The module includes: 3 Fuseholders 1 Contact 16A w/ earth 1 Voltmeter 0-500 V w/ switch	Module for 230 V system The module includes: 2 Fuseholders 2 Contacts 16A w/ earth	Module for 230 V system The module includes: 2 Fuseholders 2 Contacts 16A w/ earth 1 Earthfailure switch

FastLine

3. Module types

SLK-E adapters for ISOMAX



The modules are delivered as shown above.

	Adapter S 1	Adapter S 2	Adapter S 3	Adapter S 5	Adapter S 6	Adapter S 7
Module width	100 mm	100 mm	150 mm	150 mm	250 mm	250 mm
Suitable for ISOMAX type:	3 P S1 N 125/R 125 FFC	3 P S1 N 125/R 125 FFC 3 P S2 N 160/R 160 FFC	3 P S3 N 250/R 3 P S5 N 400/ 250 FF	3 P S6 N 630/ 400 LI, FF	3 P S7 N 1250/ 630 LI, FF 3 P S6 N 800/ 800 LI, FF	1250 LI, FF 3 P S7 N 1600/ 1600 LI, FF
Ordercode	NHP 101371R0001	NHP 101432R0001	NHP 101433R0001	NHP 101437R0001	NHP 101438R0001	NHP 101439R0001

The SLK-E adapters are designed for mounting the ISOMAX circuit breaker range from ABB SACE.

All adapters are delivered as empty units for mounting the ISOMAX circuit breaker locally by the end user.

The SLK-E adapters are designed to be plugged in to the busbar systems FS, FD, FM and FST.

FastLine

4. Applications

FastLine in Cable Distribution Cabinets

For the FastLine system, ABB can supply either steel or polyester cable distribution cabinets.

Polyester cable distribution cabinets

ABB's cable distribution cabinets (CDC) are made of reinforced polyester and satisfy DIN 43629 Parts 1 and 3, and IEC 439-5.

They are available in three different widths to take FastLine assembly plates sizes 400 mm, 600 mm and 1000 mm.

The cable distribution cabinet consists of one upper part (cabinet) and a lower part (base). The cabinet has a lockable, side hinged door which can be opened approx. 160 degrees.

For further details, please see catalogue NOCRL 05031 GB.



Steel cable distribution cabinets

The steel cable distribution cabinet (CDC) family consists of 5 different widths. The upper part is available in two versions:

- made of hot galvanized steel plate.
- made of aluzinc steel plate and painted (green RAL 6012).

The lower part with foundation can also be delivered in stainless steel. The front door can easily be removed.

To get access to the PE/PEN bar and the top part of the cable joint, a cover situated below the door has to be lifted and removed.

For further details; please study catalogue NOCRL 05031 GB.

FastLine

4. Applications

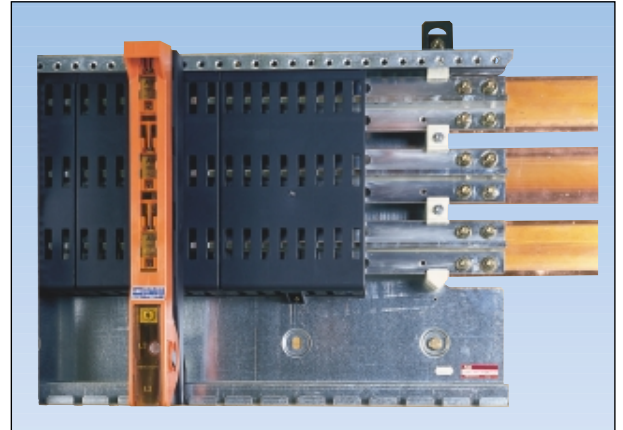
FastLine in Secondary Substations

Direct connection

Transformer – FST

Easy access to arrange bolted connection with standard Cu-bars to the FST Busbar assembly plate by:

- removing left or right IP 20 front shroud from the FST Busbar assembly plate
- and remove the transparent side protection shroud



Switched connection

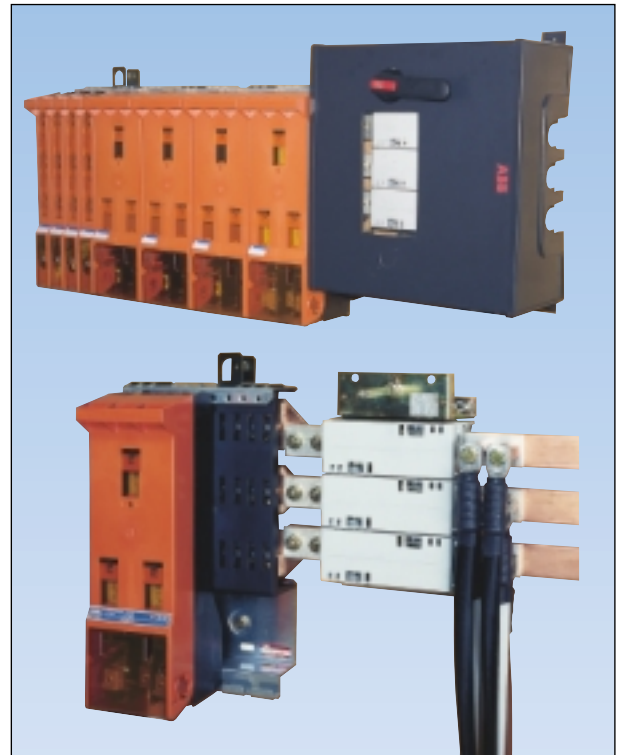
Different complete **FST-OETL Installation kits** are available to connect a switch disconnector type OETL as a switchable incomer to the Busbar assembly plate type FST.

The kits are suitable for:

OETL 1000 K3 / 1250 K3 and 1600 K3.

The FST-OETL Installation kits include:

- Cu-links between FST-OETL
- Distance pieces for cable connection (when cable kit)
- Bolts / nuts / distance pieces / washers
- OETL Protection cover



Alternative feeding for Switched connection: Transformer – OETL –FST

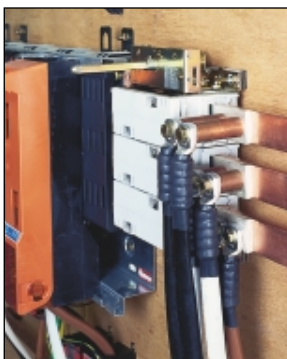


Fig. 1 Cable con. below /
alt. Busbar con. sideways



Fig. 2 Cable con. above



Fig. 3 Cable con. sideways



Fig. 4 Cable con. sideways with
OETL protection cover mounted

For more detailed information, please ask for the special leaflet NOCRL 03042

Modules															
	Unit	Module type													
		DK95	DK240/ 50	DS400	DK300	DK240	K95	K240	SM200	M/P240	SLKD63	SLK-NH160	SLK160	SLK400	SLK630
Width of module	mm	50	50	50	100	100	50	100	150	100	50	50	50	150	200
Weight	kg	1,2	3,5	1,4	5	3,5	2,2	4,2	2,0	4,2	2,0	2,1	2,1	6,5	7,3
Cable Al/Cu.	mm ²	10-95	95-240	³⁾	300	95-240	10-95	95-240	-	95-240	6-50	10-95	10-95	95-240	2(120-300)
Rated current I 1)	A									400		160	160	400	630
Thermal load capacity Ith 1)	A	250	400	400	800	400	250	400	200		63	160			
Rated voltage Ue	V	500	500	500	500	500	500	500	500	500	400	500	500	500	500
Insulation voltage Ui	V	1000	1000	1000	1000	1000	1000	1000		1000	660	1000	1000	1000	1000
Frequency zone	Hz	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Breaking capacity: at 400 V, cat. AC 21 B	A									X					
at 500 V, cat. AC 22 B	A											X	X	X	X
Closing capacity with: Short-circuiting at 500 V	kAeff									50	50	50	50	50	50
With largest fuses	A									630 ²⁾	63	160	160 ³⁾	400 ²⁾	630 ²⁾
Electrical lifetime, number of operations 2)										200			200	200	200
Mechanical lifetime, number of operations										800			1400	800	800
Type of fuse: Diazed NH-fuse-link											DII / DII	00	00	1-2	3
Degree of protection	IP	20	20	20	20	20	20	20	-	20	20	20	20	20	20

Typetested according to IEC 60947-3.

¹⁾ When built in to a box, the power load must be reduced in accordance with the reduction factor in the table (IED 60439) on page 11.

²⁾ With fuses connected.

³⁾ Cable lugs, bars or cable clamps (please consult).

Service Modules						
	Unit	Module type				
		SM 200	MM 230	MM 400 / 230	S 230	SJ 230
Width	mm	150	50	50	50	50
Weight	kg	2,0	2,2	2,3	2,4	2,7
Rated current I	A	200	16	16	16	16
Rated voltage Ue	V	230	230	400	230	230
Isolation voltage Ui	V	1000	1000	1000	1000	1000
Frequency zone	Hz	50	50	50	50	50
Type of fuse			DII	DII	DII	DII
Degree of protection		IP 20	IP 20	IP 20	IP 20	IP 20

Busbars type FS and FST							
Technical specifications	Unit	FS			FST		
		400	630	1200	1200	1600	2500
Rated voltage Ue	V	500	500	500	500	500	500
Insulation voltage Ui	V	1000	1000	1000	1000	1000	1000
Rated current Ie	A	400	630	1200	1200	1600	2500
Short-circuit rating 1 sec	kArms	40	40	50	50	50	50
Degree of protection		IP20					

6. Ordering tables



Item description	Type designation	Order code	Weight Per Unit
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FS Busbar assembly plates

(kg)

FS 400 A/150	Assembly plate w/ insulated busbars	NHP 406455R0001	1,9
FS 400 A/250	Assembly plate w/ insulated busbars	NHP 139201R0001	4,2
FS 400 A/400	Assembly plate w/ insulated busbars	NHP 139202R0001	6,7
FS 400 A/600	Assembly plate w/ insulated busbars	NHP 139203R0001	10
FS 630 A/400	Assembly plate w/ insulated busbars	NHP 139212R0001	7,7
FS 630 A/600	Assembly plate w/ insulated busbars	NHP 139213R0001	11,4
FS 630 A/800	Assembly plate w/ insulated busbars	NHP 139214R0001	15,4
FS 630 A/1000	Assembly plate w/ insulated busbars	NHP 139215R0001	19,4
FS 1200 A/600	Assembly plate w/ insulated busbars	NHP 139216R0001	15,8
FS 1200 A/800	Assembly plate w/ insulated busbars	NHP 139217R0001	21,2
FS 1200 A/1000	Assembly plate w/ insulated busbars	NHP 139218R0001	26,7

FS-SR/SL Busbar assembly plates with bolted side connection

FS-SR 630A/250	Assembly plate with bolted side conn. from the right	1SEP201480R0001	5,5
FS-SL 630A/250	Assembly plate with bolted side conn. from the left	1SEP201480R0002	5,5
FS-SR 630A/400	Assembly plate with bolted side conn. from the right	1SEP201475R0001	8,3
FS-SL 630A/400	Assembly plate with bolted side conn. from the left	1SEP201475R0002	8,3
FS-SR 630A/600	Assembly plate with bolted side conn. from the right	1SEP201468R0001	12,2
FS-SL 630A/600	Assembly plate with bolted side conn. from the left	1SEP201468R0002	12,2
FS-SR 630A/800	Assembly plate with bolted side conn. from the right	1SEP201469R0001	16,1
FS-SL 630A/800	Assembly plate with bolted side conn. from the left	1SEP201469R0002	16,1
FS-SR 630A/1000	Assembly plate with bolted side conn. from the right	1SEP201470R0001	20
FS-SL 630A/1000	Assembly plate with bolted side conn. from the left	1SEP201470R0002	20
FS-SR 1200A/1600	Assembly plate with bolted side conn. from the right / ArTu	1SEP201513R0001	44
FS-SL 1200A/1600	Assembly plate with bolted side conn. from the left / ArTu	1SEP201513R0002	44

FS-R Busbar assembly plates with rear connection

FS-R 630 A/400	Assembly plate with bolted rear connection	1SEP201476R0001	10,3
FS-R 630 A/600	Assembly plate with bolted rear connection	1SEP201471R0001	14,1
FS-R 630 A/800	Assembly plate with bolted rear connection	1SEP201472R0001	18
FS-R 630 A/1000	Assembly plate with bolted rear connection	1SEP201473R0001	22

FD Busbar assembly plates with sectionalised busbars

FD 630 A/200+200	Assembly plate with sectionalized busbars	1SEP304282R0001	7,3
FD 630 A/400+400	Assembly plate with sectionalized busbars	1SEP304262R0001	14,6
FD 630 A/600+400	Assembly plate with sectionalized busbars	1SEP304261R0001	14,6

FM Busbar assembly plates with space at the right hand side for extra installations

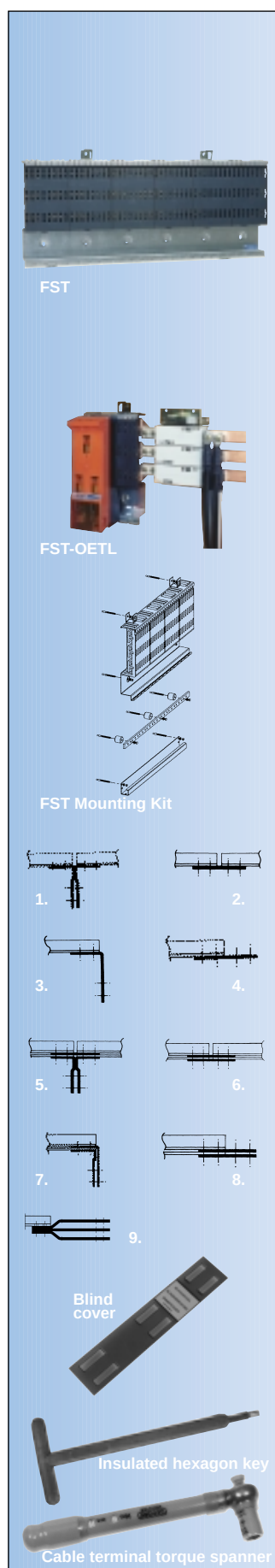
FM 630 A/200+200	Assembly plate with extra space for installations	1SEP304282R0001	5
FM 630 A/400+200	Assembly plate with extra space for installations	1SEP304264R0001	8,7
FM 630 A/400+400	Assembly plate with extra space for installations	1SEP304265R0001	10
FM 630 A/600+200	Assembly plate with extra space for installations	1SEP304263R0001	11,8
FM 630 A/600+400	Assembly plate with extra space for installations	1SEP304306R0001	14

FB Busbar assembly plates without busbars, for extra installations

FB 350	Assembly plates without busbars	NHP 350802R0001	2
FB 500	Assembly plates without busbars	NHP 350802R0002	4
FB 700	Assembly plates without busbars	NHP 350802R0003	4,8
FB 900	Assembly plates without busbars	NHP 350802R0004	
FB 1100	Assembly plates without busbars	NHP 350802R0005	

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6. Ordering tables



Item description	Type designation	Order code	Weight Per Unit
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FST Busbar assembly plates

(kg)

FST 1200A/ 800	Assembly plate w/ insulated busbars	NHP 139243R0001	30
FST 1200A/1200	Assembly plate w/ insulated busbars	NHP 139247R0001	46
FST 1600A/ 800	Assembly plate w/ insulated busbars	NHP 139241R0001	30
FST 1600A/1200	Assembly plate w/ insulated busbars	NHP 139245R0001	46
FST 2500A/ 800	Assembly plate w/ insulated busbars	NHP 139242R0001	44
FST 2500A/1200	Assembly plate w/ insulated busbars	NHP 139246R0001	65
FST-R 2500A/800 ¹⁾	Assembly plate w/ ins. busb. for rear conn.	NHP 139248R0001	44,5
FST-R 2500A/1200 ¹⁾	Assembly plate w/ ins. busb. for rear conn.	NHP 139249R0001	65,5

¹⁾ Only for connection from the rear in the middle of the busbars. FST links, screws and washers are included.

FST-OETL installation kits

FST-OETL 1250A	Inst. kit. Cable con. below/ above	1SEP407718R0001	9,5
FST-OETL 1250A	Inst. kit. Cable con. sidew.	1SEP407718R0002	7,5
FST-OETL 1600A	Inst. kit. Cable con. below/ above	1SEP407751R0001	13,9
FST-OETL 1600A	Inst. kit. Cable con. sidew.	1SEP407751R0002	10,1
FST-OETL 1600A	Inst. kit. Busbar con. sidew.	1SEP407751R000	7,7

FST Mounting Kit

FST 800	installation kit For concrete substations	1SEP407703R0001	6
FST 1200	installation kit For concrete substations	1SEP407704R0001	8,4

Accessories for FST-busbar

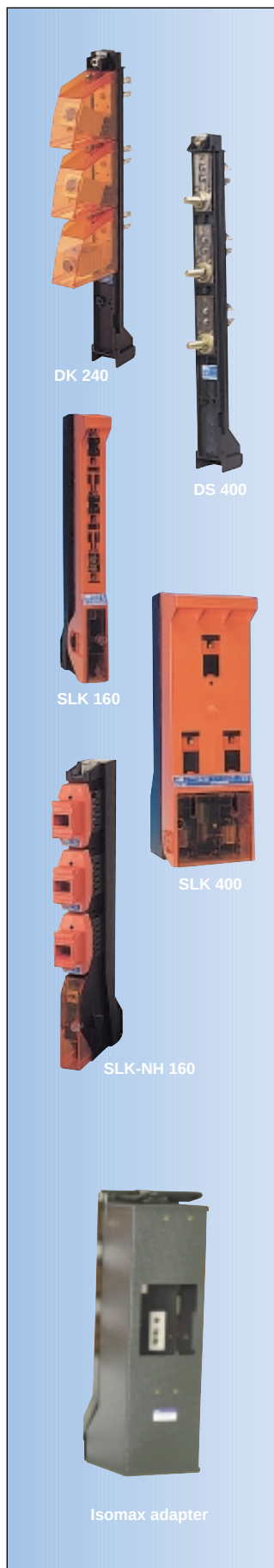
1. FST 1200/1600-S/B	FST-link 1200/1600-S/B	NHP 403073R0001	10,1
2. FST 1200/1600-S	FST-link 1200/1600-S	NHP 403073R0002	5,2
3. FST 1200/1600-E/B	FST-link 1200/1600-E/B	NHP 403073R0003	5,6
4. FST 1200/1600-E	FST-link 1200/1600-E	NHP 403073R0004	4,2
5. FST 2500-S/B	FST-link 2500-S/B	NHP 403070R0001	13,4
6. FST 2500-S	FST-link 2500-S	NHP 403070R0002	8,5
7. FST 2500-E/B	FST-link 12500-E/B	NHP 403070R0003	9,9
8. FST 2500-E	FST-link 2500-E	NHP 403070R0004	8,2
9. FST 1200/1600-E	FST-link for current transformer	NHP 200711R0001	14,4

Accessories for assembly plates

Cable terminal torque spanner		NHSN950001P0002	
Insulated hexagon key NV 6		NHSN950001P0006	0,1
Blind cover (50mm)		NHP 300185R0001	0,1

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6. Ordering labels



Item description	Type designation / Cable size / Module width	Order code	Weight Per Unit
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Incomer modules

(kg)

DK 95 / 250 A	Direct conn. module 10-95 sqmm / 50 mm	NHP 139226R0001	1,2
DK 240 / 50 / 400 A	Direct conn. module 95-24 sqmm / 50 mm	NHP 100009R0001	1,5
DK 240 / 100 / 400 A	Direct conn. module 95-240 sqmm / 100 mm	NHP 139227R0001	3,5
DK 300 / 800 A	Direct conn. module 120-300 sqmm / 100 mm	NHP 139228R0001	5
DS 400 / 400 A	Direct conn. module (bolt) / 50 mm	NHP 139230R0001	1,4
K 95 / 250 A	Cable conn. module 10-95 sqmm / 50 mm	NHP 139220R0001	2,2
K 240 / 400 A	Cable conn. module 95-240 sqmm / 100 mm	NHP 139221R0001	4,2
M/P 240 / 400 A	Cable switch module 95-240 sqmm / 100 mm	NHP 139222R0001	4,8

Fuse switch disconnecter modules

SLK 160 / 160 A	Fuse switch module 10-95 sqmm / 50 mm	NHP 139224R0001	2,1
SLK 400 / 400 A	Fuse switch module 95-240 sqmm / 150 mm	NHP 139225R0001	6,5
SLK 630 / 630 A	Fuse switch module 2x(120-300) sqmm / 200 mm	NHP 139235R0001	7,3

Fuse disconnecter modules – single phase

SLKD 63 / 63 A	Fuse switch module Diazed DII 10-95 sqmm / 50 mm	NHP 139223R0001	2
SLK-NH 160 / 160 A	Fuse switch module 10-95 sqmm / 50 mm	NHP 139238R0001	2

Service module

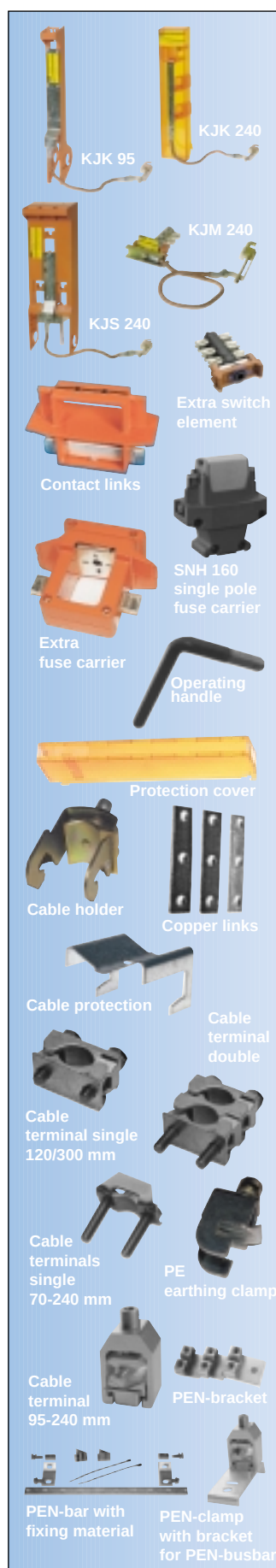
SM 200 / 200 A	Service module / 150 mm	NHP 139237R0001	2
MM 230 / 16 A	Service module / 50 mm	NHTF001990R0001	2,2
MM 400 / 230/16 A	Service module / 50 mm	NHTF001990R0002	2,3
S 230 / 16 A	Service module / 50 mm	NHTF001990R0003	2,4
SJ 230 / 16 A	Service module / 50 mm	NHTF001990R0004	2,7

SLK-E adapters for ISOMAX

Adapter for MCCB Isomax S1	3 P S1 N 125 FFC / 100 mm	NHP 101371R0001	2,6
Adapter for MCCB Isomax S2	3 P S2 N 160 FFC / 100 mm	NHP 101432R0001	2,8
Adapter for MCCB Isomax S3	3 P S3 N 250 FF 150 mm	NHP 101433R0001	3,4
Adapter for MCCB Isomax S5	3 P S5 N 400 LI, FF / 150 mm	NHP 101437R0001	3,7
Adapter for MCCB Isomax S6	3 P S6 N 630 & N 800 LI, FF / 250 mm	NHP 101438R0001	6,7
Adapter for MCCB Isomax S7	3 P S7 N 1250 & N 1600 LI, FF / 250 mm	NHP 101439R0001	10,1

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6. Ordering tables



Item description	Type designation / Cable size / Module width	Order code	Units Per Weight Package Per Unit
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Accessories for modules

(kg)

KJK 95	Earthing cover for SLK 160	NHP 139231R0001	1	1,3
KJK 240	Earthing cover for K 240	NHP 139232R0001	1	1,6
KJM 240	Earthing device for M/P 240	NHP 139233R0001	1	1,5
KJS 240	Earthing cover SLK 400	NHP 139234R0001	1	2,2
Contact links	K 95	NHP 300221R0001	1	0,3
Extra switch element	M/P 240	NHP 300222R0001	1	1
Extra fuse carrier	SLKD 63	NHP 300223R0001	1	0,5
SNH 160 single pole fuse carrier	SLK-NH 160	NHP 301570R0001	1	0,3
Protection cover	DS 400	NHP 139236R0001	1	0,6
Protection cover	2 x DS 400	NHP 139236R0002	1	0,7
Protection cover	3 x DS 400	NHP 139236R0003	1	0,8
Copper links	2 x DS 400	NHP 300213R0001	3	0,3
Copper links	3 x 400 DS	NHP 300214R0001	3	0,5
Cable holder Ø 20-40	Cable 10-95 mm ²	NHP 300141R0001	1	0,17
Cable holder Ø 35-60	Cable 95-240 mm ²	NHP 300143R0001	1	0,27
Cable protection	Cable 10-95 mm ²	NHP 300142R0001	1	0,02
Cable protection	Cable 95-240 mm ²	NHP 300144R0001	1	0,03
Operating handle	f.Switch module M/P 240	NHP 300212P0001	1	0,01

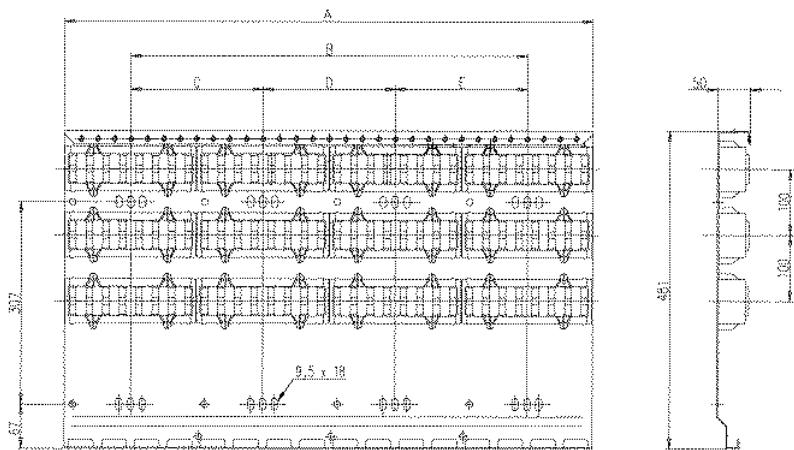
Cable terminal single	120-300 mm ²	NHP 300173R0001	1	
Cable terminal double	2 x (120-300 mm ²)	NHP 300174R0001	1	0,8
Cable terminal single	Cu/Al cable 70-240 mm ²	NHP 300175R0001	1	0,2
PE earthing clamp	Up to 50 mm ²	GSLB 230010R0002	1	0,01
PE earthing clamp	Up to 120 mm ²	NHP 300162R0001	1	0,05
PE earthing clamp	Up to 240 mm ²	NHP 300163R0001	1	0,08
Cable terminal 10-95 mm ² _M8	10-95 mm ²	NHP 407190R0001	1	0,08
Cable terminal 95-240 mm ² _M10	95-240 mm ²	NHP 407194R0001	1	0,24
PEN-clamp	Cu/Al cable 16-95 mm ²	NHP 406213R0001	1	0,12
PEN-clamp	Cu/Al cable 95- mm	NHP 406214R0001	1	0,18
Bracket with 6 PEN clamps	Cu/Al cable 10-95 mm ²	NHP 405108R0001	1	1,8
PEN-clamp with bracket	Cu/Al cable 10-95 mm ²	NHP 407174R0001	1	0,21
PEN clamp with bracket	Cu/Al cable 95-240 mm ²	NHP 407178R0001	1	0,4
PEN-bar 350 mm		NHP 405065R0001	1	0,8
PEN-bar 500 mm	Separate	NHP 405065R0002	1	1,19
PEN-bar 700 mm	PEN-bar for FS	NHP 405065R0003	1	1,69
PEN-bar 900 mm	assembly plates	NHP 405065R0004	1	2,25
PEN-bar 1100 mm		NHP 405065R0005	1	2,75
Neutral isolator	For N. bar	GZN 560029P0016	1	

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7. Dimensional drawings

Busbars

FS 400 – 630 – 1200 A

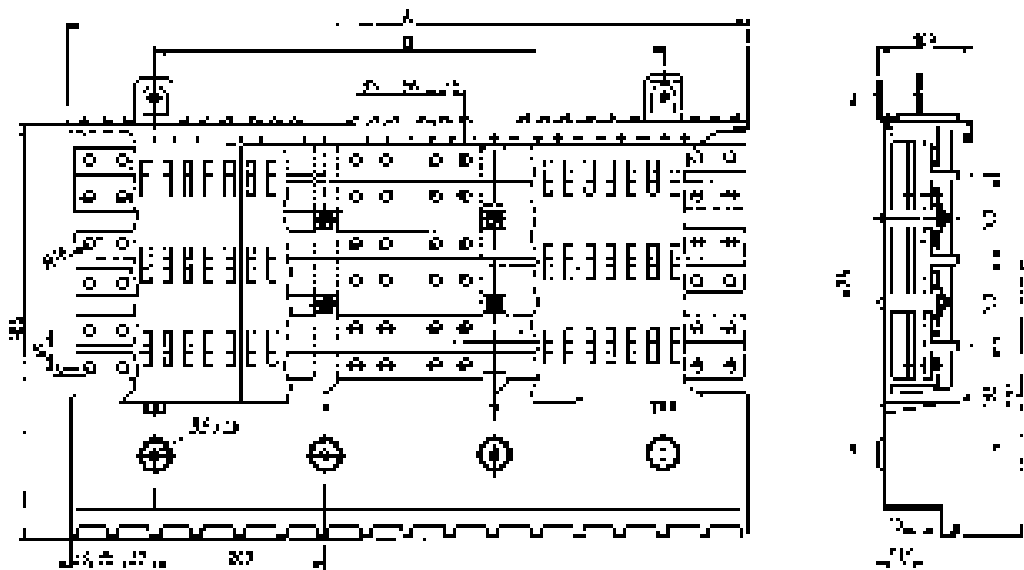


NHP 300983

Type	A	B	C	D	E
FS 400A/150	150	100			
FS 400A/250	250	150			
FS 400A/400	400	200			
FS 400A/600	600	400	200		200
FS 630A/400	400	200			
FS 630A/600	600	400	200		200
FS 630A/800	800	600	200	200	200
FS 630A/1000	1000	800	200	400	200
FS 1200A/600	600	400	200		200
FS 1200A/800	800	600	200	200	200
FS 1200A/1000	1000	800	200	400	200

Busbars

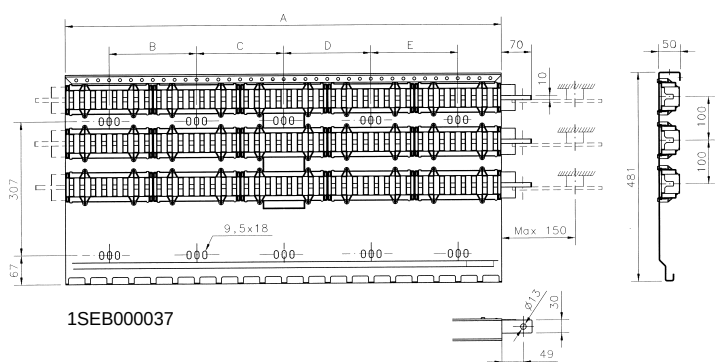
FST 1200 – 1600 - 2500 A



NHP 139332

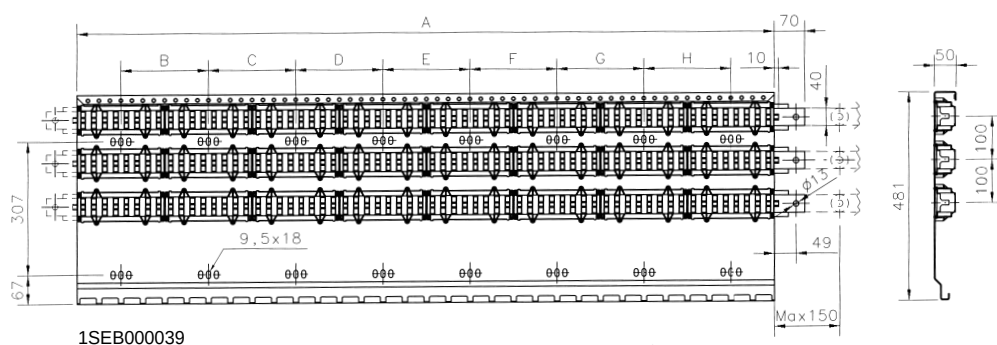
Type	A	B
FS 1200A/800	800	600
FS 1200A/1200	1200	1000
FS 1600A/800	800	600
FS 1600A/1200	1200	1000
FS 2500A/800	800	600
FS 2500A/1200	1200	1000

7. Dimensional drawings

FS-SR/SL 630 A

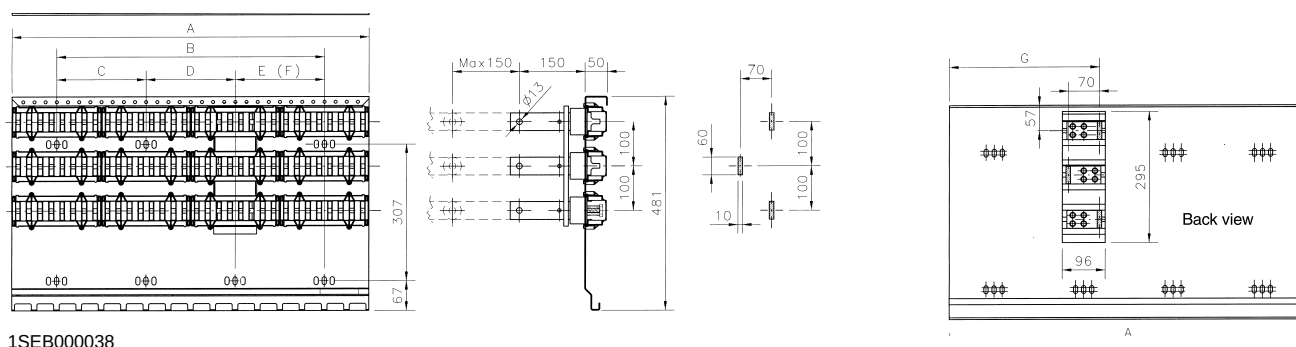
Type	A	B	C	D	E	F
FS-SR 630A-250	250					
FS-SL 630A-250	250					
FS-SR 630A-400	400	236				
FS-SL 630A-400	400	236				
FS-SR 630A-600	600	364				
FS-SL 630A-600	600	364				
FS-SR 630A-800	800	600	200	200	200	
FS-SL 630A-800	800	600	200	200	200	
FS-SR 630A-1000	1000	800	200	200	200	200
FS-SL 630A-1000	1000	800	200	200	200	200

FS-SR/SL 1200 A



Type	A	B	C	D	E	F	G	H
FS-SR 1200A-1600	1600	200	200	200	200	200	200	200
FS-SI 1200A-1600	1600	200	200	200	200	200	200	200

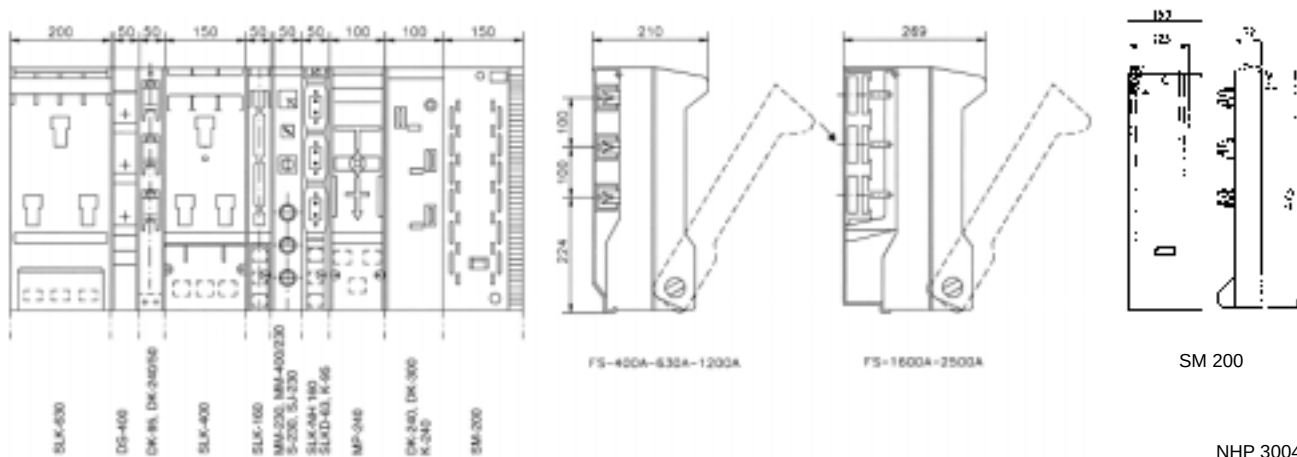
FS-R 630 A



Type	A	B	C	D	E	F	G
FS-R 630A-400	400	236					135
FS-R 630A-600	600	364					335
FS-R 630A-800	800		200	200	200		335
FS-R 630A-1000	1000		200	200	200	200	535

7. Dimensional drawings

Module types



Adapters for ISOMAX

Adapter												
Type	A	B	C	D	E	F	G	H	I	K1	K2	M
SLK-E, S1 125 A	99	228	291	256	169	210	197	178		119		490
SLK-E,S2 160 A	99	228	291	256	169	210	197	178		119		490
SLK-E,S3 250 A	149	244	291	278	185	210	219	180		121		403
SLK-E, S5 400A	149	244	291	278	185	210	219	180		121		403
SLK-E,S6 630/800 A	249	244	291	309	185	210	250	196		137		490
SLK-E, S7 1250/1600 A	249	277	303	358	218	254	299	212	252	153	193	560

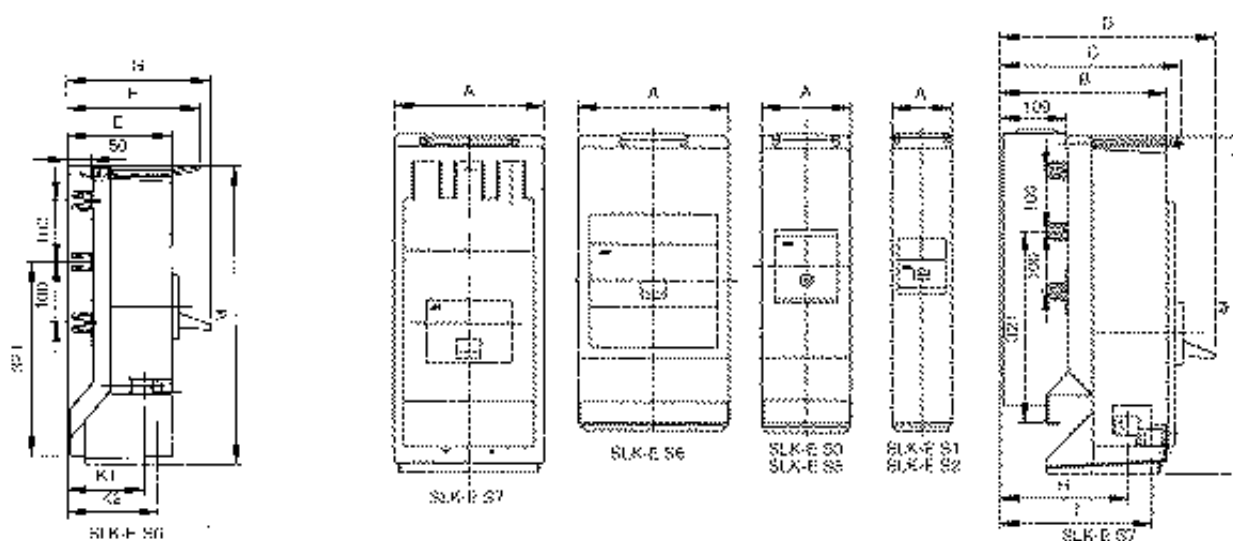




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