04 | 2012

TriLine® PowerModules
Overview with Planing Examples

Catalog template for LSO with German prices
The rates must be adjusted to country-specific from the LSO

Power and productivity
for a better world™

TriLine® PowerModules
Contents

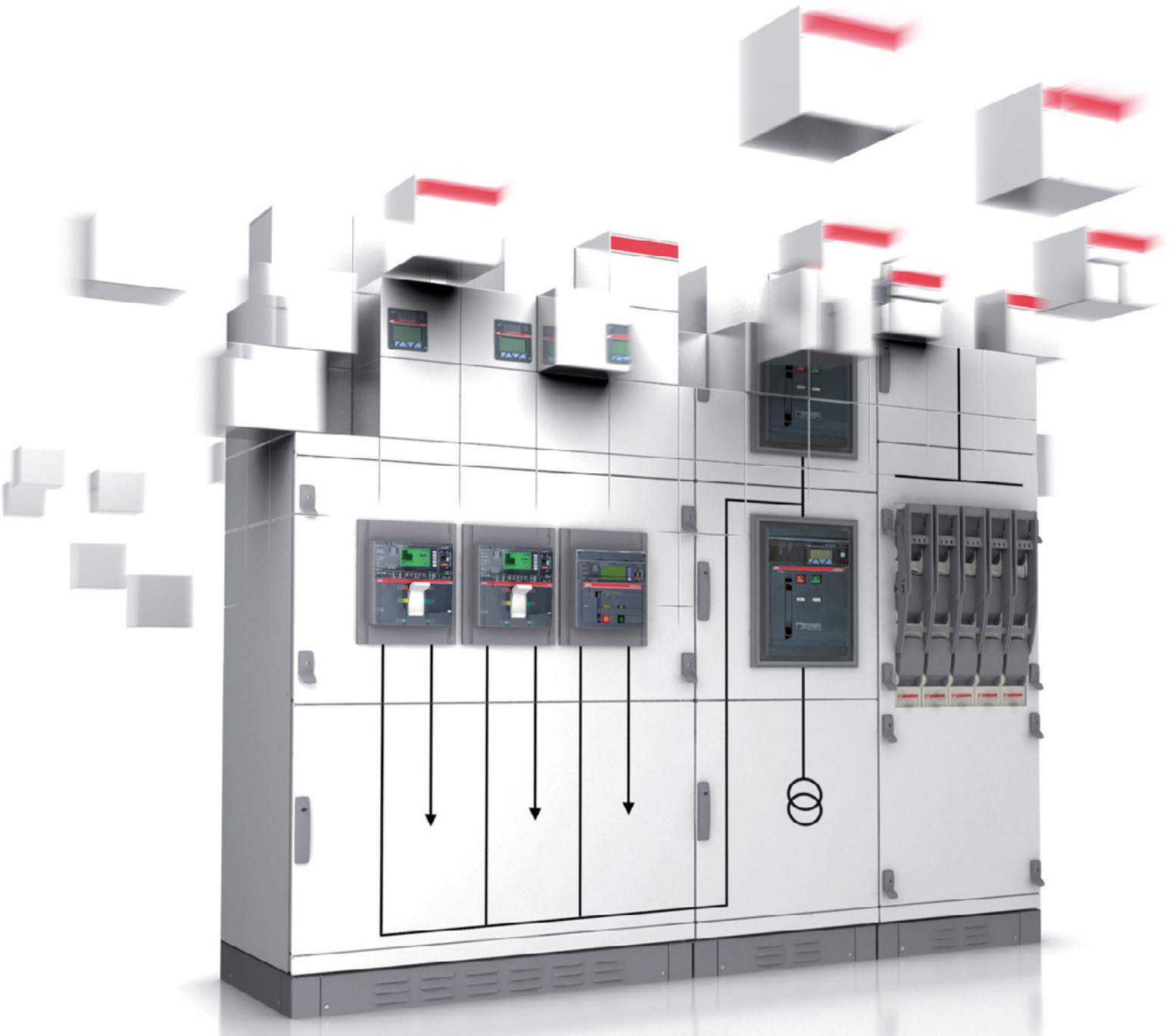
TriLine® PowerModules
The new modular system intelligence

STRIEBEL & JOHN has based its TriLine® low-voltage switchgear and controlgear assembly system on a modular design. With our new PowerModules, we can offer real added value: a high degree of flexibility thanks to versatile modular technology, simplest planning, high packing densities and optimally adapted delivery formats. This is what makes the PowerModules particularly attractive and cost-effective.

The new modular system is tested in accordance with IEC 61439 and available in the first phase for all ASSEMBLIES with a rated current of 1000 A to 2500 A. The PowerModules naturally offer you the same tried and tested functions that switchgear manufacturers have come accustomed to with TriLine®, such as maximum stability, numerous configuration options, high personal and system safety and serial manufacturing.

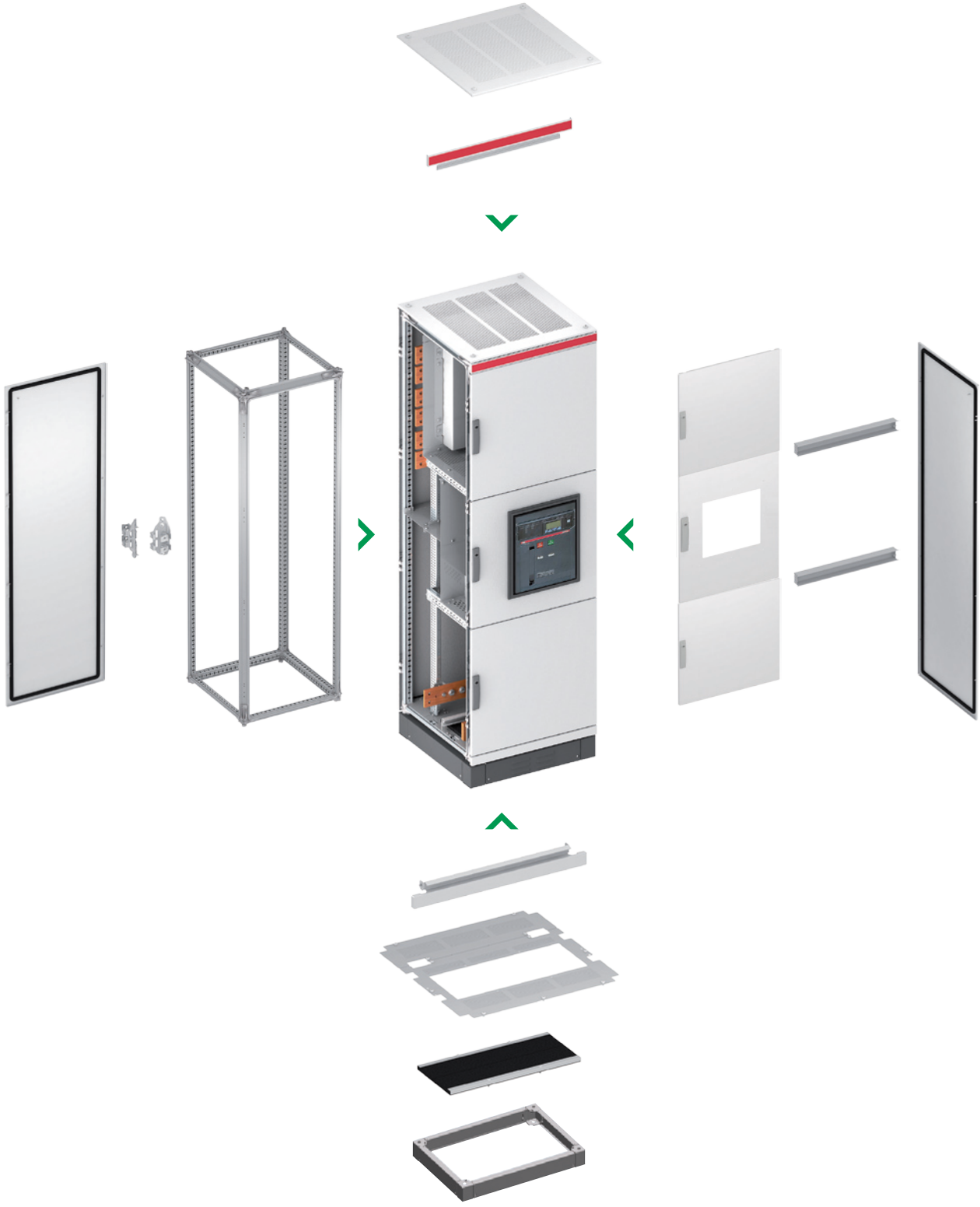
Benefits for you:

- Wide range of options thanks to intelligent modularity
- Space-saving integration of devices due to high packing density
- Optimum planning and calculation with the EDS PowerCon configuration software
- The right delivery format for every user
- The right PowerModule for every application
- Clearly structured mounting instructions for quick and easy assembly
- Saves storage space
- High level of availability
- Maximum flexibility, safety and cost-effectiveness

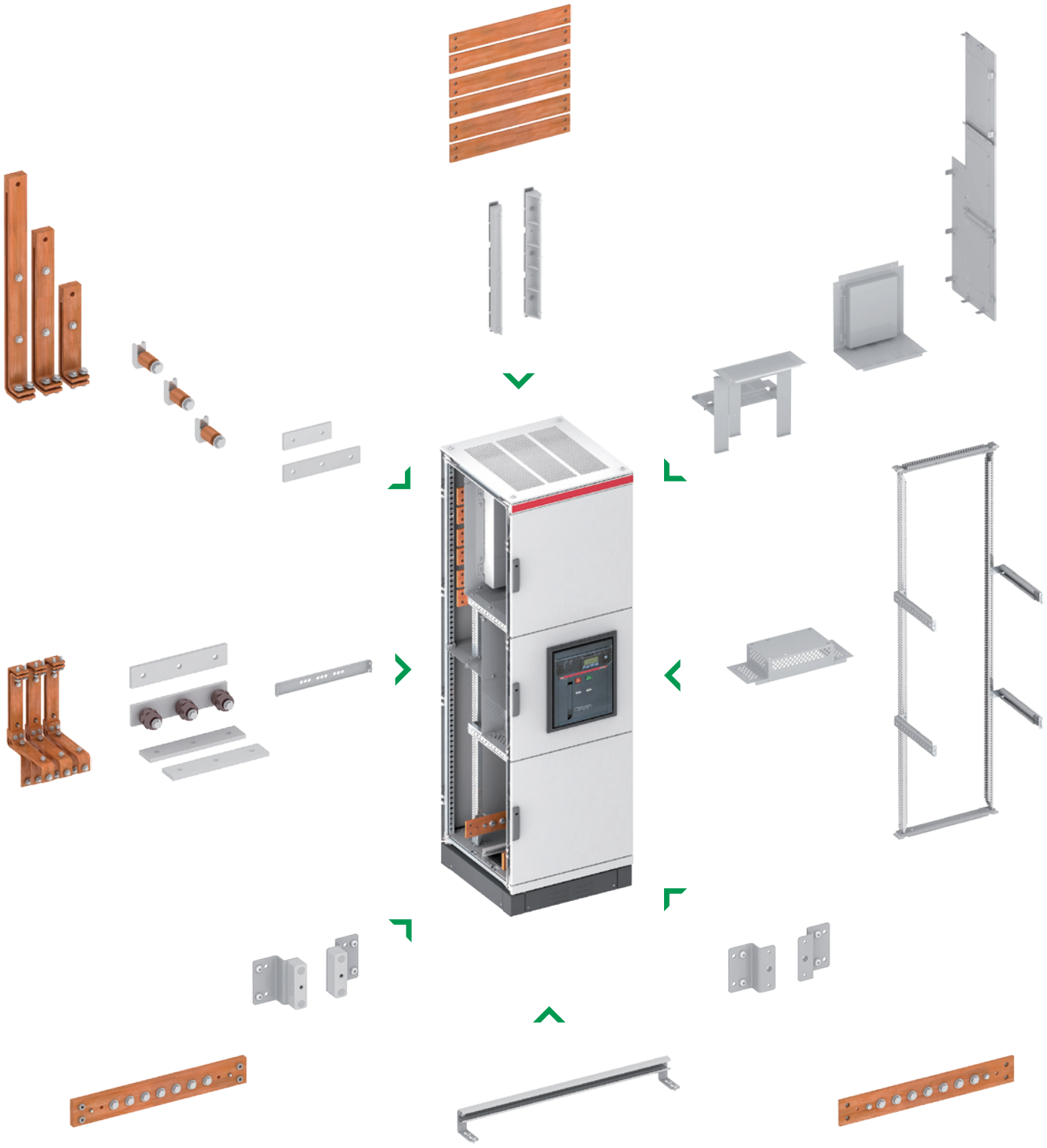


TriLine® PowerModules – The new modular system intelligence

TriLine® ASSEMBLY system
Cabinet frame and cladding



TriLine® ASSEMBLY system
PowerModules

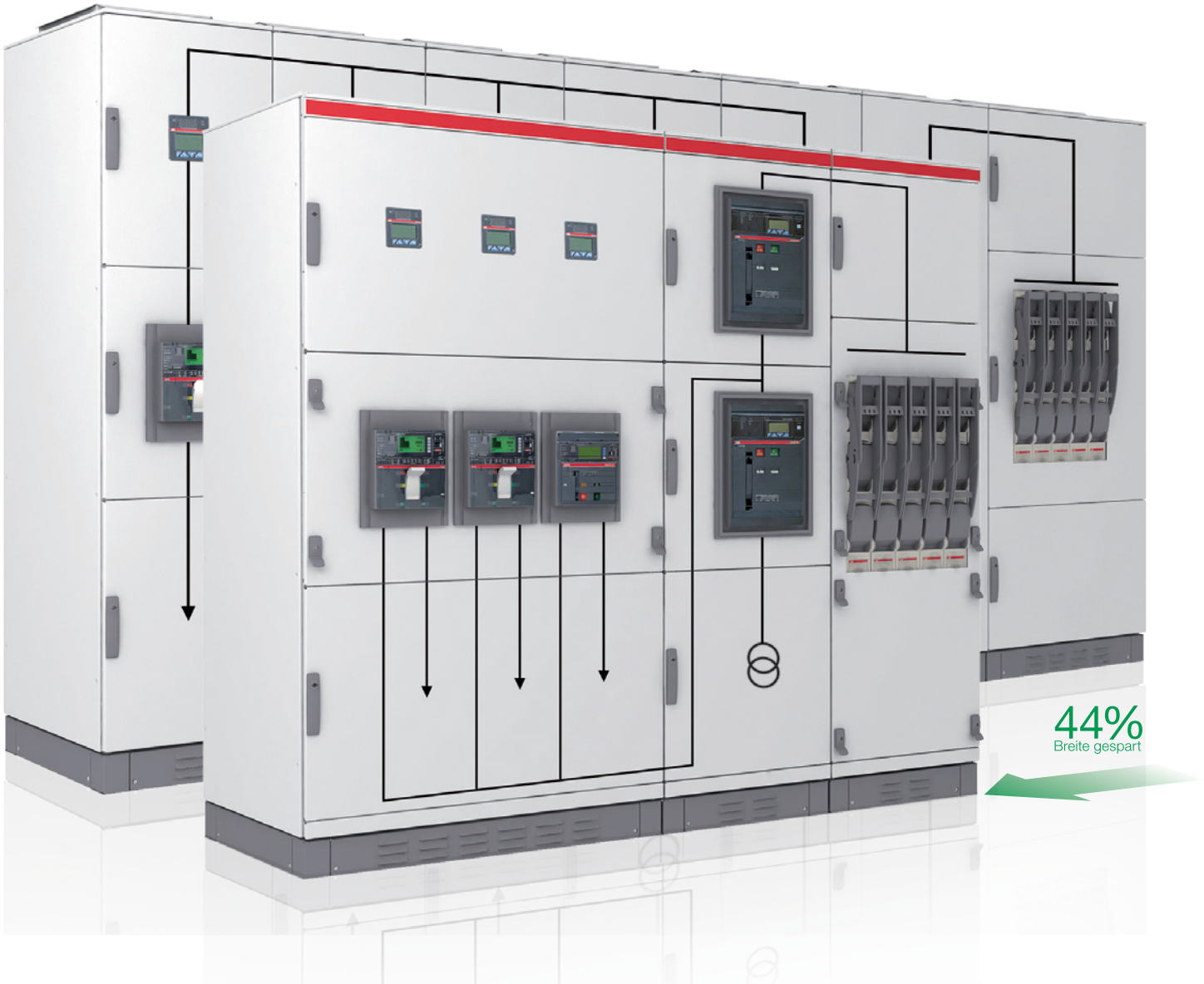


TriLine® PowerModules
High level of cost-effectiveness through optimised packing density

The new PowerModules allow a greater number of sections in an area, thanks to increased packing density. This pays off, particularly in cases where space is limited and expensive. As a result of the new, compact dimensions, you are not only saving costs in terms of the surface area. Reduced copper lengths and reduced ASSEMBLY width also offer you more in terms of cost-effectiveness.

The PowerModules enable you to install several devices adjacent to one another or on top of one another, such as the Tmax T7 moulded case circuit breaker or the Emax X1 air circuit breaker from ABB, thus allowing you to plan ASSEMBLIES in an optimum manner.

To summarise: PowerModules save you space and material costs, and you will be in safe hands – in terms of both power supply and your investments.


44%
Breite gespart

Delivery formats
The right delivery format for every user

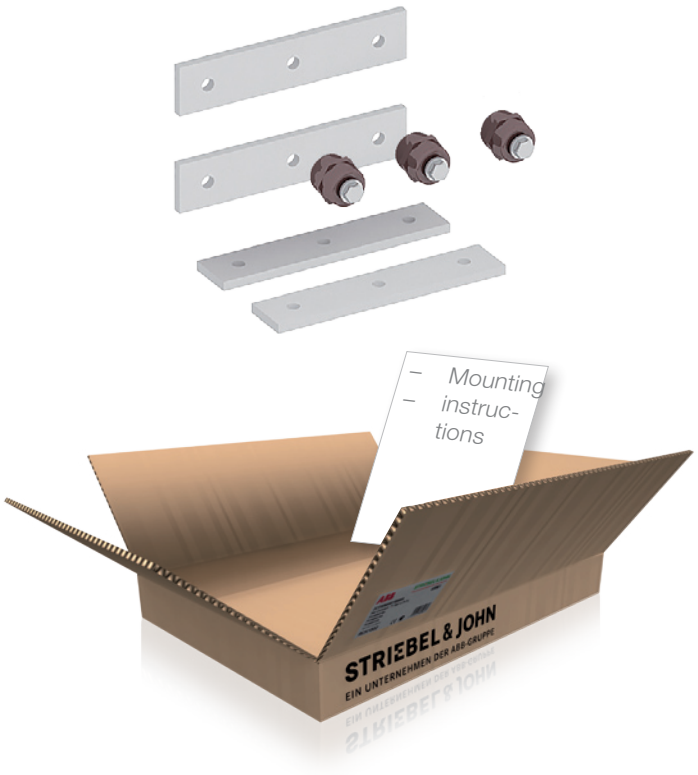
1 | A switchgear section that is factory-built according to your requirements is the right solution for you? Not a problem. In this case, the pre-assembled delivery is the optimum solution.

Pre-assembled switchgear section

Many manufacturers of ASSEMBLIES have become accustomed to obtaining ASSEMBLIES from STRIEBEL & JOHN that have been pre-assembled according to their requirements. This option naturally continues in the case of the PowerModules. Our tried and tested factory assembly guarantees a high level of product quality time and time again. All your specified system parts come factory-assembled in the cabinet. You don‘t need to worry about suitable system accessories, such as brackets, screws or supports – we‘ll take care of that for you.

- No or lower levels of self-assembly
- High level of quality through tried and tested factory assembly
- Job-related delivery
- No storage

2 | You want the PowerModules as compact flatpacks? With the supplied mounting instructions, assembly will be quick and easy for you.



Flatpacks with mounting instructions

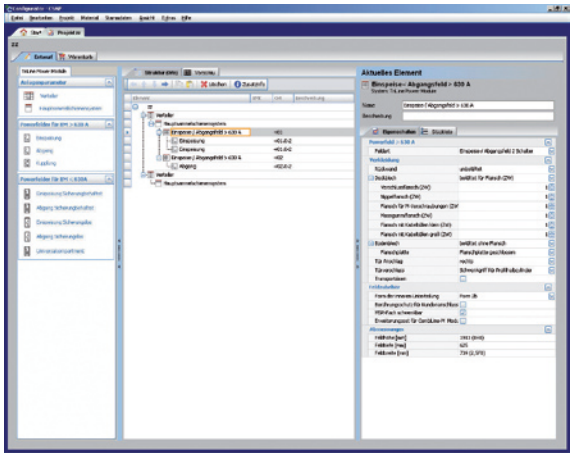
For space-saving storage of PowerModules, the flatpacks are the ideal choice for you. With a warehouse stock of the most popular PowerModules, you can respond to customers‘ requests flexibly each and every time. A flatpack contains all the required individual parts for assembling a PowerModule, including up to date mounting instructions. With the project-related delivery of flatpacks, the clear assignment of flatpacks to an enclosure helps you to achieve smooth assembly. This ensures shorter assembly times.

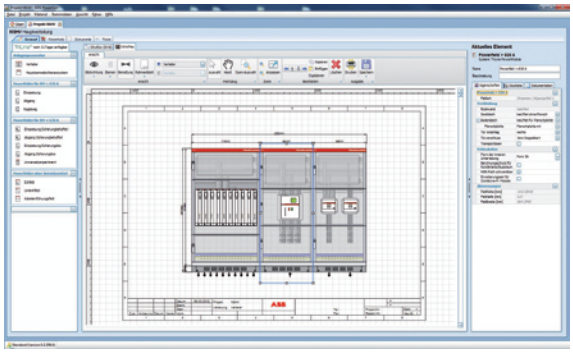
- Optimised storage through space-saving packaging
- Speedy assembly thanks to clearly structured mounting instructions
- Saves time during product selection, as the individual parts are grouped together in flatpacks
- Customer satisfaction due to short delivery times
- Project-related delivery, if desired
- Guaranteed completeness of all individual parts
- Maximum availability of products
- Short assembly times

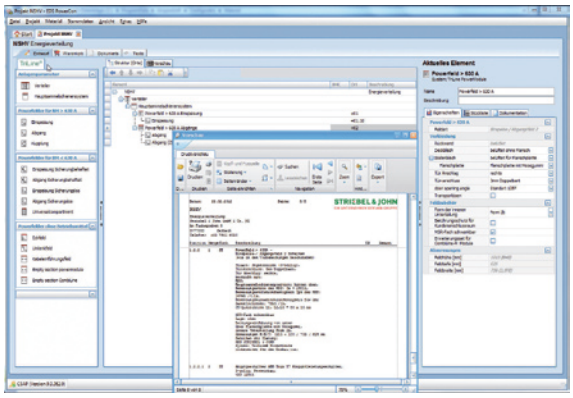
EDS PowerCon configuration software
Efficiency at the click of a button

EDS PowerCON configuration software for the TriLine PowerModules makes light work of planning and calculating ASSEMBLIES: simplicity at the click of a button with unparalleled speed.

Easy and intuitive to operate, the configuration software offers you fast, optimum support and maximum planning reliability. Do you require a detailed view drawing of the configured ASSEMBLY for descriptive offer documentation? You'll have the perfect drawing in just a few clicks. EDS PowerCon creates both part lists and order lists for you in parallel in the background, all in a convenient, clear and accurate manner.







A complete front view in no time at all

Planning an ASSEMBLY in just a few minutes? Without any prior knowledge of STRIEBEL & JOHN products? Not a problem. The exemplary user friendliness of EDS PowerCON makes this possible. The philosophy underlying the new configuration software states „think in terms of functions, not products“. This significantly simplifies the planning phase and saves valuable time.

EDS PowerCON supports you at the beginning of the planning process by means of a simple, intelligent input mask: You only have to enter the key data of the distribution, the electrical and mechanical function of the section, and EDS PowerCon takes care of the rest. In the background, parallel to your entries, EDS PowerCon configures an orderable ASSEMBLY from the given characteristics.

You will obtain a graphic display of the configured ASSEMBLY in no time at all. You will be provided information about both the price of the ASSEMBLY and the lengths and weights of the copper busbars. Open interfaces guarantee continuity of the data, and further use of the compiled planning data in PDC or your own systems. The greatest benefit to you: You save considerable time in the case of subsequent detailed planning.

Technical specifications

Standards and regulations TriLine®	
Type tests according to	IEC 61439-1 / -2
Degree of protection	IP 30
Conditions of installation	Indoor installation
Ambient air temperature average value 24 hours	+ 35°
Ambient air temperature maximum value	+ 40°
Ambient air temperature minimum value	- 5°
Relative humidity continuous	50% / 40°
Relative humidity short term	100% / 25°

Electrical parameters	
Rated impulse withstand voltage (U_{imp})	8 kV
Overvoltage category	IV
Pollution degree	3
Protection cITBB	I
Rated frequency	50 Hz
Rated insulation voltage (U_i)	1000 V
Rated operational voltage (U_e)	690 V AC

Main busbar system MBB						
Rated current (I_n)	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**	**3200 A**
Rated peak withstand current (I_{pk})	105 kA	105 kA	165 kA	165 kA	165 kA	220 kA
Rated short-time withstand current (I_{cw})	50 kA	50 kA	75 kA	75 kA	75 kA	100 kA
Cabinet depth	625 mm	625 mm	625 mm	625 mm	625 mm	625

Distribution busbar system DBB				
Rated current (I_n)	**1000 A**	**1250 A**	**1600 A**	**2000 A**
Rated peak withstand current (I_{pk})	105 kA	105 kA	165 kA	165 kA
Rated short-time withstand current (I_{cw})	50 kA	50 kA	75 kA	75 kA

Devices	
Rated conditional short-circuit current (I_{cc})	on request

Constructional features	
Cabinet frame	galvanized profiled sheet steel
Doors	sheet steel 2,0 mm
Rear wall	sheet steel 1,5 mm
Top plate	sheet steel 1,5 mm with ventilation apertures
Powder coating cabinet	RAL 7035
Powder coating plinth	RAL 7005
Bottom plate	galvanized sheet steel 1,5 mm

Notes

Planning example
Incoming / outgoing section for ABB T6 / T7 / X1
3 pole, withdrawable
For one device

Configuration example without devices

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate for cable entry
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 3200 A
- N-busbar system 100% current-carrying capacity from MBB
- PE-busbar system 50% current-carrying capacity from MBB
- Terminal busbar system (TBB) 630 A to 1600 A
- Connecting busbar system (CBB) 630 A to 1600 A
- Internal form of separation (IFOS) Form 4b

For device ABB T6 1,5 FB

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	489 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / TBB				
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A	with Cu 2000 A
without Cu	116				
with Cu 1000 A		135	138		
with Cu 1250 A		137	141		
with Cu 1600 A		141	145		
with Cu 2000 A		148	152		
with Cu 2500 A		156	159		
with Cu 3200 A		130	134		

Price* in euros without devices

MBB / N/PE	CBB / TBB				
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A	with Cu 2000 A
without Cu	2982,20				
with Cu 1000 A		4276,70	4365,70		
with Cu 1250 A		4324,70	4413,70		
with Cu 1600 A		4382,20	4471,20		
with Cu 2000 A		4568,70	4657,70		
with Cu 2500 A		4734,20	4823,20		
with Cu 3200 A		4963,20	5078,20		

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Incoming / outgoing section for ABB T6 / T7 / X1
3 pole, withdrawable
For one device

For device ABB T6 2FB

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	614 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / TBB				
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A	with Cu 2000 A
without Cu	135				
with Cu 1000 A		156	160		
with Cu 1250 A		160	163		
with Cu 1600 A		164	168		
with Cu 2000 A		174	177		
with Cu 2500 A		183	187		
with Cu 3200 A		176	198		

Price* in euros without devices

MBB / N/PE	CBB / TBB				
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A	with Cu 2000 A
without Cu	3139,40				
with Cu 1000 A		4481,90	4570,90		
with Cu 1250 A		4542,90	4631,90		
with Cu 1600 A		4616,90	4705,90		
with Cu 2000 A		4844,40	4933,40		
with Cu 2500 A		5056,40	4933,40		
with Cu 3200 A		5089,60	5416,60		

For device ABB T7 / X1 1,5 FB

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	489 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / TBB				
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A	with Cu 2000 A
without Cu	112				
with Cu 1000 A		139	143	158	
with Cu 1250 A		142	145	160	
with Cu 1600 A		146	149	164	
with Cu 2000 A		153	156	171	
with Cu 2500 A		160	164	179	
with Cu 3200 A		166	169	184	

Price* in euros without devices

MBB / N/PE	CBB / TBB				
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A	with Cu 2000 A
without Cu	2956,20				
with Cu 1000 A		4440,70	4504,70	5079,70	
with Cu 1250 A		4488,70	4582,70	5127,70	
with Cu 1600 A		4546,20	4640,20	5185,20	
with Cu 2000 A		4732,70	4826,70	5371,70	
with Cu 2500 A		4898,20	4992,20	5537,20	
with Cu 3200 A		5151,40	5245,40	5816,40	

For device ABB T7 / X1 2FB

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	614 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / TBB				
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A	with Cu 2000 A
without Cu	131				
with Cu 1000 A		161	164	179	
with Cu 1250 A		164	167	183	
with Cu 1600 A		169	172	187	
with Cu 2000 A		178	181	197	
with Cu 2500 A		187	191	206	
with Cu 3200 A		191	195	210	

Price* in euros without devices

MBB / N/PE	CBB / TBB				
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A	with Cu 2000 A
without Cu	3114,40				
with Cu 1000 A		4645,90	4739,90	5312,90	
with Cu 1250 A		4706,90	4800,90	5373,90	
with Cu 1600 A		4780,90	4874,90	5447,90	
with Cu 2000 A		5008,40	5102,40	5675,40	
with Cu 2500 A		5220,40	5314,40	5887,40	
with Cu 3200 A		5428,60	5560,60	6134,60	

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Incoming / outgoing section for ABB T6 / T7 / X1
3 pole, withdrawable
For two devices

Configuration example without without devices

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate for cable entry
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 3200 A
- N-busbar system 100% current-carrying capacity from MBB
- PE-busbar system 50% current-carrying capacity from MBB
- Terminal busbar system (TBB) 630 A to 1600 A
- Connecting busbar system (CBB) 630 A to 1600 A
- Internal form of separation (IFOS) Form 2b

Planning example
Incoming / outgoing section for ABB T6 / T7 / X1
3 pole, withdrawable
For two devices

For device ABB T6 3FB

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	864 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / TBB				
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A	with Cu 2000 A
without Cu	171				
with Cu 1000 A		209	217		
with Cu 1250 A		214	221		
with Cu 1600 A		221	228		
with Cu 2000 A		234	241		
with Cu 2500 A		248	255		
with Cu 3200 A		250	257		

Price* in euros without devices

MBB / N/PE	CBB / TBB				
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A	with Cu 2000 A
without Cu	3658,30				
with Cu 1000 A		5928,30	6106,30		
with Cu 1250 A		6014,30	6192,30		
with Cu 1600 A		6123,30	6301,30		
with Cu 2000 A		6427,30	6605,30		
with Cu 2500 A		6731,30	6909,30		
with Cu 3200 A		7008,50	7186,50		

For device ABB T7 / X1 3FB

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	864 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / TBB				
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A	with Cu 2000 A
without Cu	165				
with Cu 1000 A		220	227	263	
with Cu 1250 A		225	231	262	
with Cu 1600 A		231	238	269	
with Cu 2000 A		245	251	282	
with Cu 2500 A		258	265	296	
with Cu 3200 A		261	267	298	

Price* in euros without devices

MBB / N/PE	CBB / TBB				
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A	with Cu 2000 A
without Cu	3658,30				
with Cu 1000 A		6256,30	6444,30	7761,30	
with Cu 1250 A		6342,30	6530,30	7676,30	
with Cu 1600 A		6451,30	6639,30	7785,30	
with Cu 2000 A		6755,30	6943,30	8089,30	
with Cu 2500 A		7059,30	7247,30	8393,30	
with Cu 3200 A		7336,50	7524,50	8672,50	

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Incoming / outgoing section for ABB T6 / T7 / X1
3 pole, fixed
For three devices

Configuration example without devices

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate for cable entry
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 3200 A
- N-busbar system 100% current-carrying capacity from MBB
- PE-busbar system 50% current-carrying capacity from MBB
- Terminal busbar system (TBB) 630 A to 1600 A
- Connecting busbar system (CBB) 630 A to 1600 A
- Internal form of separation (IFOS) Form 2b

Planning example
Incoming / outgoing section for ABB T6 / T7 / X1
3 pole, fixed
For three devices

For device ABB T6 4FB

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	1,114 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / TBB				
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A	with Cu 2000 A
without Cu	209				
with Cu 1000 A		268	278	289	
with Cu 1250 A		274	283	295	
with Cu 1600 A		282	292	304	
with Cu 2000 A		301	310	322	
with Cu 2500 A		318	328	339	
with Cu 3200 A		328	338	350	

Price* in euros without devices

MBB / N/PE	CBB / TBB				
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A	with Cu 2000 A
without Cu	4416,40				
with Cu 1000 A		7571,40	7847,40	8150,40	
with Cu 1250 A		7686,40	7962,40	8406,40	
with Cu 1600 A		7827,40	8103,40	8406,40	
with Cu 2000 A		8211,40	8487,40	8790,40	
with Cu 2500 A		8613,40	8889,40	9192,40	
with Cu 3200 A		8940,60	9216,60	9519,60	

For device ABB T7 / X1 4FB

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	1,114 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / TBB				
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	202				
with Cu 1000 A		285	297	353	
with Cu 1250 A		291	303	359	
with Cu 1600 A		300	311	367	
with Cu 2000 A		318	330	385	
with Cu 2500 A		336	347	403	
with Cu 3200 A		346	357	413	

Price* in euros without devices

MBB / N/PE	CBB / TBB				
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	4416,40				
with Cu 1000 A		8234,40	8501,40	10478,40	
with Cu 1250 A		8349,40	8616,40	10593,40	
with Cu 1600 A		8490,40	8757,40	10734,40	
with Cu 2000 A		8874,40	9141,40	11118,40	
with Cu 2500 A		9276,40	9543,40	11520,40	
with Cu 3200 A		9603,60	9870,60	11850,60	

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Incoming / outgoing section for ABB E2
3 pole, fixed
For one device

Configuration example without devices

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate for cable entry
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 3200 A
- N-busbar system 100% current-carrying capacity from MBB
- PE-busbar system 50% current-carrying capacity from MBB
- Terminal busbar system (TBB) 2000 A
- Connecting busbar system (CBB) 2000 A
- Internal form of separation (IFOS) Form 4b

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	614 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / TBB	
	without Cu	with Cu 2000 A
without Cu	131	
with Cu 1000 A		189
with Cu 1250 A		192
with Cu 1600 A		196
with Cu 2000 A		206
with Cu 2500 A		215
with Cu 3200 A		219

Price* in euros without devices

MBB / N/PE	CBB / TBB	
	without Cu	with Cu 2000 A
without Cu	3.267,40	
with Cu 1000 A		5.611,90
with Cu 1250 A		5.672,90
with Cu 1600 A		5.746,90
with Cu 2000 A		5.974,40
with Cu 2500 A		6.186,40
with Cu 3200 A		6.433,60

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Incoming / outgoing section for ABB E3
3 pole, fixed
For one device

Configuration example without devices

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate for cable entry
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 3200 A
- N-busbar system 100% current-carrying capacity from MBB
- PE-busbar system 50% current-carrying capacity from MBB
- Terminal busbar system (TBB) 2500 A and 3200 A
- Connecting busbar system (CBB) 2500 A and 3200 A
- Internal form of separation (IFOS) Form 4b

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	864 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / TBB		
	without Cu	with Cu 2500 A	with Cu 3,200 A
without Cu	165		
with Cu 1000 A		260	309
with Cu 1250 A		265	313
with Cu 1600 A		271	320
with Cu 2000 A		285	334
with Cu 2500 A		299	347
with Cu 3200 A		301	350

Price* in euros without devices

MBB / N/PE	CBB / TBB		
	without Cu	with Cu 2500 A	with Cu 3,200 A
without Cu	3.650,80		
with Cu 1000 A		6.783,80	9.060,30
with Cu 1250 A		6.869,80	9.146,30
with Cu 1600 A		6.978,80	9.255,30
with Cu 2000 A		7.282,80	9.559,30
with Cu 2500 A		7.586,80	9.863,30
with Cu 3200 A		7.865,00	10.158,20

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Coupler section for ABB T6
3 pole, fixed
For one device

Configuration example without devices

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate closed
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 3200 A
- N-busbar system 100% current-carrying capacity from MBB
- PE-busbar system 50% current-carrying capacity from MBB
- Connecting busbar system (CBB) 630 A to 1000 A
- Internal form of separation (IFOS) Form 4b

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	489 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB			
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A
without Cu	116			
with Cu 1000 A		136	141	146
with Cu 1250 A		142	145	150
with Cu 1600 A		149	152	157
with Cu 2000 A		161	164	169
with Cu 2500 A		173	176	181
with Cu 3200 A		183	186	191

Price* in euros without devices

MBB / N/PE	CBB			
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A
without Cu	2.950,30			
with Cu 1000 A		4.518,30	4.637,10	4.781,10
with Cu 1250 A		4.647,10	4.733,10	4.877,10
with Cu 1600 A		4.745,60	4.831,60	4.975,60
with Cu 2000 A		5.055,60	5.141,60	5.285,60
with Cu 2500 A		5.333,10	5.419,10	5.563,10
with Cu 3200 A		5.833,00	5.919,00	6.063,00

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Coupler section for ABB T7 / X1
3 pole, withdrawable
For one device

Configuration example without devices

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate closed
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 3200 A
- N-busbar system 100% current-carrying capacity from MBB
- PE-busbar system 50% current-carrying capacity from MBB
- Connecting busbar system (CBB) 1000 A to 1600 A
- Internal form of separation (IFOS) Form 4b

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	489 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB			
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A
without Cu	116			
with Cu 1000 A		143	147	163
with Cu 1250 A		148	151	168
with Cu 1600 A		154	158	174
with Cu 2000 A		166	170	187
with Cu 2500 A		179	182	199
with Cu 3200 A		188	192	208

Price* in euros without devices

MBB / N/PE	CBB			
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A
without Cu	2.952,30			
with Cu 1000 A		4.696,30	4.768,30	5.304,30
with Cu 1250 A		4.792,30	4.864,30	5.400,30
with Cu 1600 A		4.890,80	4.962,80	5.498,80
with Cu 2000 A		5.200,80	5.272,80	5.808,80
with Cu 2500 A		5.478,30	5.550,30	6.086,30
with Cu 3200 A		5.978,20	6.050,20	6.588,20

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Coupler section for ABB E2
3 pole, fixed
For one device

Configuration example without devices

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate closed
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 3200 A
- N-busbar system 100% current-carrying capacity from MBB
- PE-busbar system 50% current-carrying capacity from MBB
- Connecting busbar system (CBB) 2000 A
- Internal form of separation (IFOS) Form 4b

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	614 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB	
	without Cu	with Cu 2000 A
without Cu	139	
with Cu 1000 A		195
with Cu 1250 A		201
with Cu 1600 A		209
with Cu 2000 A		225
with Cu 2500 A		240
with Cu 3200 A		248

Price* in euros without devices

MBB / N/PE	CBB	
	without Cu	with Cu 2000 A
without Cu	3.385,60	
with Cu 1000 A		5.800,50
with Cu 1250 A		5.922,50
with Cu 1600 A		6.044,50
with Cu 2000 A		6.424,50
with Cu 2500 A		6.778,50
with Cu 3200 A		7.274,90

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Coupler section for ABB E3
3 pole, fixed
For one device

Configuration example without devices

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate closed
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 3200 A
- N-busbar system 100% current-carrying capacity from MBB
- PE-busbar system 50% current-carrying capacity from MBB
- Terminal busbar system (TBB) 2500 A and 3200 A
- Connecting busbar system (CBB) 2500 A and 3200 A
- Internal form of separation (IFOS) Form 4b

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	864 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB		
	without Cu	with Cu 2500 A	with Cu 3,200 A
without Cu	171		
with Cu 1000 A		268	305
with Cu 1250 A		277	314
with Cu 1600 A		288	325
with Cu 2000 A		311	347
with Cu 2500 A		333	369
with Cu 3200 A		338	376

Price* in euros without devices

MBB / N/PE	CBB		
	without Cu	with Cu 2500 A	with Cu 3,200 A
without Cu	3.696,80		
with Cu 1000 A		7.040,80	8.981,60
with Cu 1250 A		7.212,80	9.153,60
with Cu 1600 A		7.392,30	9.333,10
with Cu 2000 A		7.899,80	9.840,60
with Cu 2500 A		8.407,80	10.348,60
with Cu 3200 A		8.964,20	11.028,40

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Incoming / outgoing / coupler combination for ABB T6 / T7 / X1
3 pole, fixed
For two devices on top of one another

Configuration example without devices

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate for cable entry
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 3200 A
- N-busbar system 100% current-carrying capacity from MBB
- PE-busbar system 50% current-carrying capacity from MBB
- Terminal busbar system (TBB) 630 A to 1600 A
- Connecting busbar system (CBB) 630 A to 1600 A
  Internal form of separation (IFOS) Form 4

Note:

- Connecting busbar systems CBB may only be configured with the same current value
- The two current breakers must be configured as a fixed installation

For device ABB T6 1.5FB

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	489 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / TBB			
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A
without Cu	123			
with Cu 1000 A		160	167	174
with Cu 1250 A		165	172	179
with Cu 1600 A		171	172	185
with Cu 2000 A		183	190	198
with Cu 2500 A		196	203	210
with Cu 3200 A		207	214	221

Price* in euros without devices

MBB / N/PE	CBB / TBB			
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A
without Cu	3380,20			
with Cu 1000 A		5752,70	5925,70	6102,30
with Cu 1250 A		5848,70	6021,70	6198,30
with Cu 1600 A		5945,20	6021,70	6294,80
with Cu 2000 A		6255,70	6428,70	6605,30
with Cu 2500 A		6532,20	6705,20	6881,80
with Cu 3200 A		7038,60	7211,60	7388,20

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Incoming / outgoing / coupler combination for ABB T6 / T7 / X1
3 pole, fixed
For two devices on top of one another

For device ABB T6 2FB

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	614 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / TBB			
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A
without Cu	135			
with Cu 1000 A		177	183	191
with Cu 1250 A		183	190	197
with Cu 1600 A		191	197	205
with Cu 2000 A		206	213	221
with Cu 2500 A		222	229	236
with Cu 3200 A		230	237	245

Price* in euros without devices

MBB / N/PE	CBB / TBB			
	without Cu	with Cu 630 A	with Cu 800 A	with Cu 1000 A
without Cu	3512,40			
with Cu 1000 A		5973,30	6146,30	6322,90
with Cu 1250 A		6095,30	6268,30	6444,90
with Cu 1600 A		6218,30	6391,30	6567,90
with Cu 2000 A		6597,80	6770,80	6947,40
with Cu 2500 A		6950,80	7123,80	7300,40
with Cu 3200 A		7444,20	7617,20	7793,80

For device ABB T7 / X1 1.5FB

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	489 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / TBB			
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A
without Cu	119			
with Cu 1000 A		169	176	209
with Cu 1250 A		174	181	214
with Cu 1600 A		180	187	220
with Cu 2000 A		193	200	232
with Cu 2500 A		205	212	245
with Cu 3200 A		216	223	255

Price* in euros without devices

MBB / N/PE	CBB / TBB			
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A
without Cu	3372,30			
with Cu 1000 A		6093,80	6259,30	7689,80
with Cu 1250 A		6189,80	6355,30	7785,80
with Cu 1600 A		6286,30	6451,80	7882,30
with Cu 2000 A		6596,80	6762,30	8192,80
with Cu 2500 A		6873,30	7038,80	8469,30
with Cu 3200 A		7379,70	7545,20	8977,70

For device ABB T7 / X1 2FB

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	614 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / TBB			
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A
without Cu	136			
with Cu 1000 A		191	201	233
with Cu 1250 A		198	207	239
with Cu 1600 A		207	215	247
with Cu 2000 A		223	230	263
with Cu 2500 A		239	246	279
with Cu 3200 A		247	254	287

Price* in euros without devices

MBB / N/PE	CBB / TBB			
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A
without Cu	3458,90			
with Cu 1000 A		6297,40	6435,90	7866,40
with Cu 1250 A		6419,40	6557,90	7988,40
with Cu 1600 A		6515,40	6680,90	8111,40
with Cu 2000 A		6894,90	7060,40	8490,90
with Cu 2500 A		7247,90	7413,40	8843,90
with Cu 3200 A		7741,30	7906,80	9339,30

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Incoming / outgoing / coupler combination for ABB E2
3 pole, fixed
For two devices on top of one another

Configuration example without devices

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate for cable entry
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 2500 A
- N-busbar system 100% current-carrying capacity from MBB
- PE-busbar system 50% current-carrying capacity from MBB
- Terminal busbar system (TBB) 2000 A
- Connecting busbar system (CBB) 2000 A
- Internal form of separation (IFOS) Form 4b

Note:

- Connecting busbar systems CBB may only be configured with the same current value
- The two current breakers must be configured as a fixed installation

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	614 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / TBB	
	without Cu	with Cu 2000 A
without Cu	137	
with Cu 1000 A		237
with Cu 1250 A		243
with Cu 1600 A		251
with Cu 2000 A		267
with Cu 2500 A		283
with Cu 3200 A		291

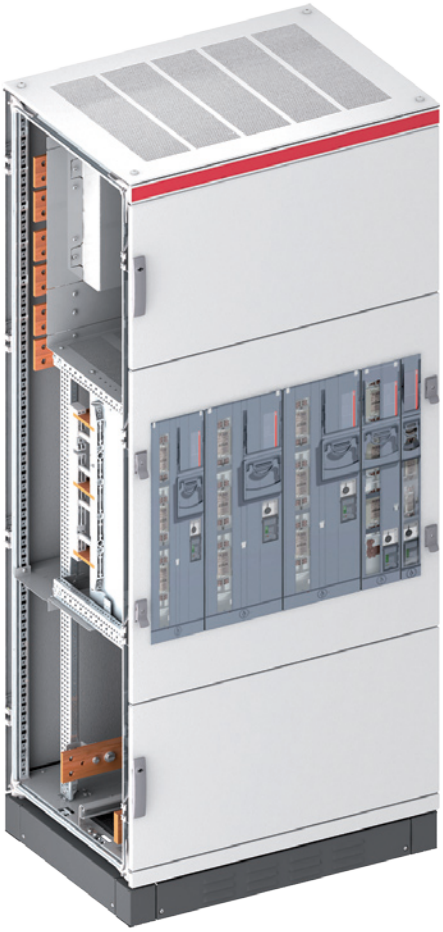
Price* in euros without devices

MBB / N/PE	CBB / TBB	
	without Cu	with Cu 2000 A
without Cu	3.737,60	
with Cu 1000 A		7.863,10
with Cu 1250 A		7.985,10
with Cu 1600 A		8.108,10
with Cu 2000 A		8.487,60
with Cu 2500 A		8.840,60
with Cu 3200 A		9.336,00

* The gross price indication serves the purpose of a non-committal cost estimation.

Notes

Planning example
Outgoing section for switch disconnector fuse ABB XR
For vertical device installation



Configuration example without devices

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate for cable entry
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 3200 A
- N-busbar system 100% current-carrying capacity from MBB
- PE-busbar system 50% current-carrying capacity from MBB
- Distribution busbar system (DBB) 1250 A to 2000 A
- Connecting busbar system (CBB) 1250 A to 2000 A
- Internal form of separation (IFOS) Form 4b

- Useable mounting width 750 mm

Planning example
Outgoing section for switch disconnector fuse ABB XR
For vertical device installation

Useable mounting width 500 mm

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	614 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / DBB			
	without Cu	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	127			
with Cu 1000 A		153	160	164
with Cu 1250 A		160	163	167
with Cu 1600 A		164	168	172
with Cu 2000 A		174	177	181
with Cu 2500 A		183	187	191
with Cu 3200 A		176	198	188

Price* in euros without devices

MBB / N/PE	CBB / DBB			
	without Cu	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	3139,40			
with Cu 1000 A		4481,90	4570,90	4641,90
with Cu 1250 A		4542,90	4631,90	4702,90
with Cu 1600 A		4616,90	4705,90	4776,90
with Cu 2000 A		4844,40	4933,40	5004,40
with Cu 2500 A		5056,40	4933,40	5216,40
with Cu 3200 A		5089,60	5416,60	5304,60

Useable mounting width 750 mm

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	864 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / DBB			
	without Cu	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	154			
with Cu 1000 A		193	205	209
with Cu 1250 A		197	209	213
with Cu 1600 A		204	216	220
with Cu 2000 A		217	230	234
with Cu 2500 A		231	243	247
with Cu 3200 A		232	246	250

Price* in euros without devices

MBB / N/PE	CBB / DBB			
	without Cu	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	2956,20			
with Cu 1000 A		4440,70	4504,70	5079,70
with Cu 1250 A		4488,70	4582,70	5127,70
with Cu 1600 A		4546,20	4640,20	5185,20
with Cu 2000 A		4732,70	4826,70	5371,70
with Cu 2500 A		4898,20	4992,20	5537,20
with Cu 3200 A		5151,40	5245,40	5816,40

Useable mounting width 1000 mm

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	1,114 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / DBB			
	without Cu	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	185			
with Cu 1000 A		223	241	250
with Cu 1250 A		237	247	256
with Cu 1600 A		246	256	265
with Cu 2000 A		264	274	283
with Cu 2500 A		282	292	301
with Cu 3200 A		290	302	310

Price* in euros without devices

MBB / N/PE	CBB / DBB			
	without Cu	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	3692,90			
with Cu 1000 A		5405,90	5529,90	5706,90
with Cu 1250 A		5326,90	5644,90	5821,90
with Cu 1600 A		5467,90	5785,90	5962,90
with Cu 2000 A		5851,90	6169,90	6346,90
with Cu 2500 A		6253,90	6571,90	6748,90
with Cu 3200 A		6503,10	6860,10	7037,10

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Outgoing section for fuse switch disconnectors in tier format ABB InLine
For vertical device installation

Configuration example without devices

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate for cable entry
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 3200 A
- N-busbar system 100% current-carrying capacity from MBB
- PE-busbar system 50% current-carrying capacity from MBB
- Distribution busbar system (DBB) 1000 A to 2000 A
- Connecting busbar system (CBB) 1000 A to 2000 A
- Internal form of separation (IFOS) Form 2b

- Useable mounting width 750 mm

Planning example
Outgoing section for fuse switch disconnectors in tier format ABB InLine
For vertical device installation

Useable mounting width 500 mm

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	614 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / DBB				
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	118				
with Cu 1000 A		145	149	157	164
with Cu 1250 A		148	152	160	167
with Cu 1600 A		153	156	165	171
with Cu 2000 A		162	166	175	181
with Cu 2500 A		172	175	184	190
with Cu 3200 A		176	180	189	196

Price* in euros without devices

MBB / N/PE	CBB / DBB				
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	2828,30				
with Cu 1000 A		4165,90	4236,90	4502,00	4612,80
with Cu 1250 A		4226,90	4297,90	4563,00	4673,80
with Cu 1600 A		4300,90	4371,90	4637,00	4747,80
with Cu 2000 A		4528,40	4599,40	4864,50	4975,30
with Cu 2500 A		4740,40	4811,40	5076,50	5187,30
with Cu 3200 A		4986,60	5057,60	5361,70	5472,50

Useable mounting width 750 mm

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	864 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / DBB				
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	156				
with Cu 1000 A		181	185	195	203
with Cu 1250 A		186	190	200	207
with Cu 1600 A		192	196	206	214
with Cu 2000 A		206	210	220	228
with Cu 2500 A		219	224	233	241
with Cu 3200 A		221	225	236	244

Price* in euros without devices

MBB / N/PE	CBB / DBB				
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	3233,30				
with Cu 1000 A		4577,40	4662,40	4959,50	5091,30
with Cu 1250 A		4663,40	4748,40	5045,50	488,00
with Cu 1600 A		4772,40	4857,40	5154,50	5286,30
with Cu 2000 A		5076,40	5161,40	5458,50	5590,30
with Cu 2500 A		5380,40	5465,40	5762,50	5894,30
with Cu 3200 A		5618,60	5703,60	6039,70	6171,50

Useable mounting width 1000 mm

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	1,114 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / DBB				
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	187				
with Cu 1000 A		231	235	247	255
with Cu 1250 A		237	241	252	261
with Cu 1600 A		245	250	261	270
with Cu 2000 A		263	268	279	288
with Cu 2500 A		281	285	297	305
with Cu 3200 A		290	294	307	315

Price* in euros without devices

MBB / N/PE	CBB / DBB				
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	3764,90				
with Cu 1000 A		5520,00	5619,00	5947,10	6100,90
with Cu 1250 A		5635,00	5734,00	6062,10	573,00
with Cu 1600 A		5776,00	5875,00	6203,10	6356,90
with Cu 2000 A		6160,00	6281,90	6587,10	6740,90
with Cu 2500 A		6562,00	6661,00	6989,10	7142,90
with Cu 3200 A		6811,20	6910,20	7277,30	7431,10

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Outgoing section with a vertical cable compartment for switch disconnector fuse ABB XR and compartment, fixed, with plug-in contacts

Configuration example without devices / compartments

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate for cable entry
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 3200 A
- N-busbar system 100% current-carrying capacity from MBB/DBB
- PE-busbar system 50% current-carrying capacity from MBB/DBB
- Distribution busbar system (DBB) 1250 A to 2000 A
- Connecting busbar system (CBB) 1250 A to 2000 A
- Internal form of separation (IFOS) Form 4b

- Usable mounting height 1650 mm

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	1,114 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / DBB				
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	214				
with Cu 1000 A			271	287	296
with Cu 1250 A			277	293	302
with Cu 1600 A			286	301	308
with Cu 2000 A			303	319	328
with Cu 2500 A			321	336	345
with Cu 3200 A			331	347	356

Price* in euros without devices

MBB / N/PE	CBB / DBB				
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	4.008,00				
with Cu 1000 A			6.154,30	6.566,30	7.089,30
with Cu 1250 A			6.269,30	6.681,30	7.204,30
with Cu 1600 A			6.410,80	6.822,80	7.313,80
with Cu 2000 A			6.795,80	7.207,80	7.730,80
with Cu 2500 A			7.196,80	7.608,80	8.131,80
with Cu 3200 A			7.547,20	7.959,20	8.482,20

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Compartment, fixed, with plug-in contacts
For horizontal device installation

Configuration example without devices

- Mounting plate with set of contacts
- Compartment door
- Mounting plinth
- Horizontal partition
- Door division profile
- Vertical partition left and right
- Connection set for devices
- Internal form of separation (IFOS) Form 4b

Compartment height in mm

Type	Design				
	Fixed Toggle through door	Fixed Rotary with shaft extension	Fixed solenoid operated through door	Plugable Toggle through door	Withdrawable Toggle through door
160 A	T1	150	150	150		
160 A	T2	150	150	150	150	
250 A	T3	200	200	200	200	
320 A	T4	200	200		200	300
400 A	T5				300	300
630 A	T5	300	300			

Weight in kg without devices

Type	Design				
	Fixed Toggle through door	Fixed Rotary with shaft extension	Fixed solenoid operated through door	Plugable Toggle through door	Withdrawable Toggle through door
160 A	T1	7.1	7.0	5.9		
160 A	T2	7.1	5.8	5.9	5.9	
250 A	T3	13.8	13.0	13.1	13.1	
320 A	T4	14.1	13.1		13.1	10.2
400 A	T5				11.2	10.9
630 A	T5	12.3	11.3			

Price* in euros without devices

Type	Design				
	Fixed Toggle through door	Fixed Rotary with shaft extension	Fixed solenoid operated through door	Plugable Toggle through door	Withdrawable Toggle through door
160 A	T1	442,50	439,50	450,00		
160 A	T2	455,50	449,00	451,00	450,00	
250 A	T3	492,10	473,60	481,60	479,10	
320 A	T4	487,60	472,70		480,60	544,20
400 A	T5				552,70	552,70
630 A	T5	575,70	562,20			

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Outgoing section with a vertical cable compartment for Compartment, fixed, for connecting cables For horizontal device installation

Configuration example without devices / compartments

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate for cable entry
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 2500 A
- N-busbar system 100% current-carrying capacity from MBB/DBB
- PE-busbar system 50% current-carrying capacity from MBB/DBB
- Distribution busbar system (DBB) 1000 A to 2000 A
- Connecting busbar system (CBB) 1000 A to 2000 A
- Internal form of separation (IFOS) Form 4b

- Usable mounting height 1650 mm

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	1,114 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / DBB				
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	182				
with Cu 1000 A		230	237	250	257
with Cu 1250 A		236	243	255	263
with Cu 1600 A		244	252	264	274
with Cu 2000 A		262	269	282	289
with Cu 2500 A		279	287	299	307
with Cu 3200 A		287	295	307	314

Price* in euros without devices

MBB / N/PE	CBB / DBB				
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	3.669,00				
with Cu 1000 A		5.896,50	6.093,80	6.430,80	6.928,80
with Cu 1250 A		6.011,50	6.208,80	6.545,80	7.043,80
with Cu 1600 A		6.153,00	6.350,30	6.687,30	7.052,30
with Cu 2000 A		6.562,30	6.735,30	7.072,30	7.570,30
with Cu 2500 A		6.963,30	7.136,30	7.473,30	7.971,30
with Cu 3200 A		76,00	7.380,60	7.717,60	7.828,00

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Compartment, fixed, for connecting cables
For horizontal device installation

Configuration example without devices

- Mounting plate
- Compartment cover
- Horizontal partition including door division profile
- Vertical partition left and right
- Without connection set for devices
- Internal form of separation (IFOS) Form 4b

Compartment height in mm

Type	Design				
	Fixed Toggle through door	Fixed Rotary with shaft extension	Fixed solenoid operated through door	Plugable Toggle through door	Withdrawable Toggle through door
160 A I T1	150	150			
160 A I T2	150	150	150		
250 A I T3	200	200	200		
320 A I T4	200	200	200	300	200
400 A I T5			300	300	300
630 A I T5	300	300	300	300	

Weight in kg without devices

Type	Design				
	Fixed Toggle through door	Fixed Rotary with shaft extension	Fixed solenoid operated through door	Plugable Toggle through door	Withdrawable Toggle through door
160 A I T1	3.9	3.7			
160 A I T2	3.9	3.7	3.9		
250 A I T3	4.3	4.3	4.5		
320 A I T4	4.3	4.3	4.5	5.4	4.5
400 A I T5			5.5	5.4	5.6
630 A I T5	5.4	5.1	5.2	5.3	

Price* in euros without devices

Type	Design				
	Fixed Toggle through door	Fixed Rotary with shaft extension	Fixed solenoid operated through door	Plugable Toggle through door	Withdrawable Toggle through door
160 A I T1	152,40	154,40			
160 A I T2	152,40	154,40	154,40		
250 A I T3	162,40	164,40	164,40		
320 A I T4	162,40	164,40	164,40	174,40	164,40
400 A I T5			174,40	174,40	174,40
630 A I T5	171,40	174,40	174,40	174,40	

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Outgoing section for switch disconnector fuse ABB XR and compartment, fixed, with plug-in contacts

Configuration example without devices / compartments

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate closed
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 3200 A
- N-busbar system 100% current-carrying capacity from MBB
- PE-busbar system 50% current-carrying capacity from MBB
- Distribution busbar system (DBB) 1250 A to 2000 A
- Connecting busbar system (CBB) 1250 A to 2000 A
- Internal form of separation (IFOS) Form 4b

- Usable mounting height 1650 mm

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	739 mm	625 mm

Weight in kg without devices

MBB / N/PE	CBB / DBB				
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	140				
with Cu 1000 A			185	195	206
with Cu 1250 A			189	199	209
with Cu 1600 A			194	205	215
with Cu 2000 A			206	216	226
with Cu 2500 A			217	227	238
with Cu 3200 A			221	232	242

Price* in euros without devices

MBB / N/PE	CBB / DBB				
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	2.684,90				
with Cu 1000 A			4.319,30	4.628,30	4.860,30
with Cu 1250 A			4.393,30	4.702,30	4.934,30
with Cu 1600 A			4.486,80	4.795,80	5.027,80
with Cu 2000 A			4.749,80	5.058,80	5.290,80
with Cu 2500 A			5.008,80	5.317,80	5.549,80
with Cu 3200 A			5.284,10	5.593,10	5.825,10

* The gross price indication serves the purpose of a non-committal cost estimation.

Notes

Planning example
Cable entry panel

Configuration example

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate for cable entry
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 3200 A
- N-busbar system 100% current-carrying capacity from MBB
- PE-busbar system 50% current-carrying capacity from MBB
- Internal form of separation (IFOS) Form 4b

Planning example
Cable entry panel

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	614 mm	625 mm

Weight in kg without devices

MBB / N/PE	N/PE vertical				
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	123				
with Cu 1000 A		147	147	152	151
with Cu 1250 A		150	150	155	154
with Cu 1600 A		155	155	160	159
with Cu 2000 A		164	164	169	168
with Cu 2500 A		173	173	179	177
with Cu 3200 A		177	177	182	198

Price* in euros without devices

MBB / N/PE	N/PE vertical				
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	2248,70				
with Cu 1000 A		3486,70	3486,70	3589,70	3880,70
with Cu 1250 A		3547,70	3547,70	3650,70	3941,70
with Cu 1600 A		3397,70	3620,70	3723,70	4014,70
with Cu 2000 A		3848,70	3848,70	3951,70	4242,70
with Cu 2500 A		4061,70	4061,70	4164,70	4455,70
with Cu 3200 A		4269,90	4269,90	4372,90	4855,90

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	864 mm	625 mm

Weight in kg without devices

MBB / N/PE	N/PE vertical				
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	139				
with Cu 1000 A		164	164	169	168
with Cu 1250 A		167	167	173	171
with Cu 1600 A		172	172	0	176
with Cu 2000 A		181	181	187	185
with Cu 2500 A		191	191	196	195
with Cu 3200 A		194	194	199	223

Price* in euros without devices

MBB / N/PE	N/PE vertical				
	without Cu	with Cu 1000 A	with Cu 1250 A	with Cu 1600 A	with Cu 2000 A
without Cu	2459,30				
with Cu 1000 A		3671,30	3671,30	3774,30	4065,30
with Cu 1250 A		3732,30	3732,30	3835,30	4126,30
with Cu 1600 A		3805,30	3805,30	0,00	4199,30
with Cu 2000 A		4033,30	4033,30	4136,30	4427,30
with Cu 2500 A		4246,30	4246,30	4349,30	4640,30
with Cu 3200 A		4454,50	4454,50	4557,50	5100,50

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Offset section for N/PE

Configuration example

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate closed
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 3200 A
- N-busbar system 100% current-carrying capacity from MBB
- PE-busbar system 50% current-carrying capacity from MBB
- Internal form of separation (IFOS) Form 4b

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	364 mm	625 mm

Weight in kg without devices

MBB / N/PE	without Cu	with Cu
without Cu	95	
with Cu 1000 A		115
with Cu 1250 A		117
with Cu 1600 A		127
with Cu 2000 A		145
with Cu 2500 A		166
with Cu 3200 A		177

Price* in euros without devices

MBB / N/PE	without Cu	with Cu
without Cu	2.286,60	
with Cu 1000 A		3.494,60
with Cu 1250 A		3.518,60
with Cu 1600 A		3.687,60
with Cu 2000 A		4.173,60
with Cu 2500 A		4.604,60
with Cu 3200 A		5.151,30

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Offset section for MBB / N/PE

Configuration example

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate closed
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 3200 A
- N-busbar system 100% current-carrying capacity from MBB
- PE-busbar system 50% current-carrying capacity from MBB
- Internal form of separation (IFOS) Form 4b

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	614 mm	625 mm

Weight in kg without devices

MBB / N/PE	without Cu	with Cu
without Cu	127	
with Cu 1000 A		172
with Cu 1250 A		184
with Cu 1600 A		206
with Cu 2000 A		250
with Cu 2500 A		296
with Cu 3200 A		300

Price* in euros without devices

MBB / N/PE	without Cu	with Cu
without Cu	2.755,10	
with Cu 1000 A		5.141,10
with Cu 1250 A		5.546,10
with Cu 1600 A		6.047,10
with Cu 2000 A		7.082,10
with Cu 2500 A		8.131,10
with Cu 3200 A		9.378,10

* The gross price indication serves the purpose of a non-committal cost estimation.

Planning example
Corner section

Configuration example

- Cabinet frame and cladding
- Top plate, ventilated
- Bottom plate closed
- Plinth, ventilated
- Main busbar system (MBB) from 1000 A to 3200 A
- N-busbar system 100% current-carrying capacity from MBB
- PE-busbar system 50% current-carrying capacity from MBB

Cabinet measurements with plinth	Height	Width	Depth
	2013 mm	744 mm	625 mm

Weight in kg without devices

MBB / N/PE	without Cu
without Cu	139
with Cu 1000 A	151
with Cu 1250 A	155
with Cu 1600 A	162
with Cu 2000 A	173
with Cu 2500 A	188
with Cu 3200 A	197

Price* in euros without devices

MBB / N/PE	without Cu
without Cu	2.438,30
with Cu 1000 A	3.048,80
with Cu 1250 A	3.220,80
with Cu 1600 A	3.343,30
with Cu 2000 A	3.677,30
with Cu 2500 A	4.015,30
with Cu 3200 A	4.559,50

* The gross price indication serves the purpose of a non-committal cost estimation.

Notes

TriLine® Devices
Contents

Devices
Moulded-case circuit breakers ABB T1 to T4

Rated current (I_n)	Switch version	Operating mechanism	Weight in kg	Price* in €
T1, 3 pole, I_{cu} 36 kA				
Thermomagnetic release, including auxiliary contact and phase barriers				
160 A	Fixed	Toggle	1,3	584,70
Fixed		Rotary with shaft extension	1,9	661,20
Fixed		Solenoid operated	2,6	971,70

T2, 3 pole, I_{cu} 70 kA				
Thermomagnetic release, including auxiliary contact and phase barriers				
160 A	Fixed	Toggle	1,4	675,70
Fixed		Rotary with shaft extension	2,0	752,20
Fixed		Solenoid operated	2,7	1.043,90
Plugable		Toggle	2,6	852,70
Electronic release (PR221 DS-LS/I), including auxiliary contact and phase barriers				
160 A	Fixed	Toggle	1,4	731,70
	Fixed	Rotary with shaft extension	2,0	808,20
	Fixed	Solenoid operated	2,8	1.118,70
	Plugable	Toggle	2,6	908,70

T3, 3 pole, I_{cu} 50 kA				
Thermomagnetic release, including auxiliary contact and phase barriers				
250 A	Fixed	Toggle	1,9	895,70
	Fixed	Rotary with shaft extension	2,5	972,20
	Fixed	Solenoid operated	3,2	1.282,70
	Plugable	Toggle	3,6	1.090,70

T4, 3 pole, I_{cu} 70 kA				
Thermomagnetic release, including auxiliary contact and phase barriers				
320 A	Fixed	Toggle	2,9	990,60
	Fixed	Rotary with shaft extension	3,7	1.067,10
	Fixed	Motor operated	5,2	1.706,60
	Plugable	Toggle	4,6	1.213,60
	Withdrawable	Toggle	6,4	1.388,60
Electronic release (PR221 DS-LS/I), including auxiliary contact and phase barriers				
320 A	Fixed	Toggle	2,9	1.335,60
	Fixed	Rotary with shaft extension	3,7	1.412,10
	Fixed	Motor operated	5,2	2.051,60
	Plugable	Toggle	4,6	1.558,60
	Withdrawable	Toggle	6,4	1.733,60

* The gross price indication serves the purpose of a non-committal cost estimation.

Devices
Moulded-case circuit breakers ABB T5 to T7
Air circuit breaker ABB X1

Rated current (I_n)	Switch version	Operating mechanism	Weight in kg	Price* in €
T5, 3 pole, I_{cu} 70 kA				
Thermomagnetic release, including auxiliary contact and phase barriers				
400 A	Plugable	Toggle	6,6	1.677,60
	Withdrawable	Toggle	8,4	1.974,60
500 A	Fixed	Toggle	4,2	1.661,60
	Fixed	Rotary with shaft extension	5,0	1.738,10
	Fixed	Motor operated	6,5	2.377,60
	Plugable	Toggle	8,9	2.120,60
	Withdrawable	Toggle	8,4	2.388,60
Electronic release (PR221 DS-LS/I), including auxiliary contact and phase barriers				
400 A	Plugable	Toggle	6,6	1.800,60
	Withdrawable	Toggle	8,4	2.097,60
630 A	Fixed	Toggle	4,2	1.820,60
	Fixed	Rotary with shaft extension	5,0	1.897,10
	Fixed	Motor operated	6,5	2.536,60
	Plugable	Toggle	8,9	2.279,60
	Withdrawable	Toggle	8,4	2.547,60

T7, 3 pole, I_{cu} 70 kA, Electronic release (PR232-LS/I)				
including auxiliary contact, SOR/UVR and rear terminals				
1000 A	Fixed	Hand operated	11,9	4.084,50
	Withdrawable	Hand operated	32,2	5.202,50
1250 A	Fixed	Hand operated	11,9	4.686,50
	Withdrawable	Hand operated	32,2	5.804,50
1600 A	Fixed	Hand operated	11,9	6.364,50
	Withdrawable	Hand operated	32,2	7.482,50

X1, 3 pole, I_{cu} 65 kA, Electronic release (PR331-LS/I)				
including auxiliary contact, SOR/UVR and rear terminals				
1000 A	Fixed	Hand operated	13,0	3.661,50
	Fixed	Motor operated	15,3	4.555,50
1000 A	Withdrawable	Hand operated	36,3	4.976,50
	Withdrawable	Motor operated	38,3	5.870,50
1250 A	Fixed	Hand operated	13,0	4.240,50
	Fixed	Motor operated	15,3	5.134,50
1250 A	Withdrawable	Hand operated	36,3	5.556,50
	Withdrawable	Motor operated	38,6	5.804,50
1600 A	Fixed	Hand operated	13,0	6.435,50
	Fixed	Motor operated	15,3	7.329,50
1600 A	Withdrawable	Hand operated	36,3	7.828,50
	Withdrawable	Motor operated	38,6	8.722,50

* The gross price indication serves the purpose of a non-committal cost estimation.

Devices
Air circuit breakers ABB E2 and E3
Switch disconnector fuse ABB XR
Fuse switch disconnector in tier format ABB InLine

Rated current (I_n)	Switch version	Operating mechanism	Weight in kg	Price* in €
E2, 3 pole, I_{cu} 65 kA, Electronic release (PR121-LS/I)				
including auxiliary contact, SOR/UVR and rear terminals				
2000 A	Fixed	Hand operated	64,3	7.908,00
	Fixed	Motor operated	66,2	8.942,00
	Withdrawable	Hand operated	104,3	10.229,00
	Withdrawable	Motor operated	106,3	11.263,00
E3, 3 pole, I_{cu} 75 kA, Electronic release (PR121-LS/I)				
including auxiliary contact, SOR/UVR and rear terminals				
2500 A	Fixed	Hand operated	90,3	11.405,00
	Fixed	Motor operated	92,2	12.439,00
	Withdrawable	Hand operated	138,3	13.031,00
	Withdrawable	Motor operated	140,2	14.065,00

ABB XR, 3 pole, busbar centre spacing 185 mm, AC22			
including terminal covers and busbar protection covers IPXXB, without NH-fuses			
160 A	NH00	4,0	365,95
250 A	NH1	7,5	590,40
400 A	NH2	16,0	1.000,80
630 A	NH3	17,0	1.095,80
ABB XR, 3 pole, busbar centre spacing 185 mm, AC23			
including terminal covers and busbar protection covers IPXXB, without NH-fuses			
160 A	NH00	4,0	414,95
250 A	NH1	7,5	790,40
400 A	NH2	16,0	1.126,80
630 A	NH3	17,0	1.155,00

ABB InLine, 3 pole, busbar centre spacing 185 mm			
Type XLBM, without NH-fuses			
160 A	NH00	2,5	148,90
250 A	NH1	4,5	232,00
400 A	NH2	5,0	243,00
630 A	NH3	5,5	261,00

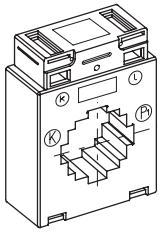
* The gross price indication serves the purpose of a non-committal cost estimation.

Devices
Switch disconnector fuse Jean Müller SASIL Plus
Fuse switch disconnector in tier format ABB InLine Jean Müller SL Measuring instruments / current transformers

Rated current (I_n)	Switch version	Operating mechanism	Weight in kg	Price* in €
Jean Müller SASIL Plus, 3 pole, busbar centre spacing 185 mm, AC-22B				
including terminal covers and busbar protection covers IPXXB, without NH-fuses				
160 A		NH00	4,0	*1
250 A		NH1	7,0	*1
400 A		NH2	14,5	*1
630 A		NH3	15,5	*1
Jean Müller SASIL Plus, 3 pole, busbar centre spacing 185 mm, AC-23B				
including terminal covers and busbar protection covers IPXXB, without NH-fuses				
160 A		NH00	4,0	*1
250 A		NH1	7,0	*1
400 A		NH2	14,5	*1
630 A		NH3	15,5	*1

Jean Müller SL, 3 pole, busbar centre spacing 185 mm				
without NH-fuses				
160 A		NH00	2,5	*1
250 A		NH1	4,5	*1
400 A		NH2	5,0	*1
630 A		NH3	5,5	*1

For manufacturer	Rated current (I_n)	For Cu bars dimensions in mm	Weight in kg	Price* in €
Multi measurement device				
including motor starter, short circuit protected				
			1,5	350,00



Current transformer manufacturer: Redur				
3 pole, incl. CT terminals				
T7	**1000 A**	1 x Cu 50 x 10	1,0	148,50
	1250 A	1 x Cu 60 x 10	1,0	148,50
	1600 A	2 x Cu 50 x 10	1,0	152,70
E2	**2000 A**	2 x Cu 60 x 10	1,5	152,70
E3	**2500 A**	2 x Cu 100 x 10	2.0	180,00

* The gross price indication serves the purpose of a non-committal cost estimation.

Contact

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