



Januar 2010

TriLine®

Power solutions 1250 A – 4000 A

Power and productivity
for a better world™



General overview

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Introduction TR12 – TR40

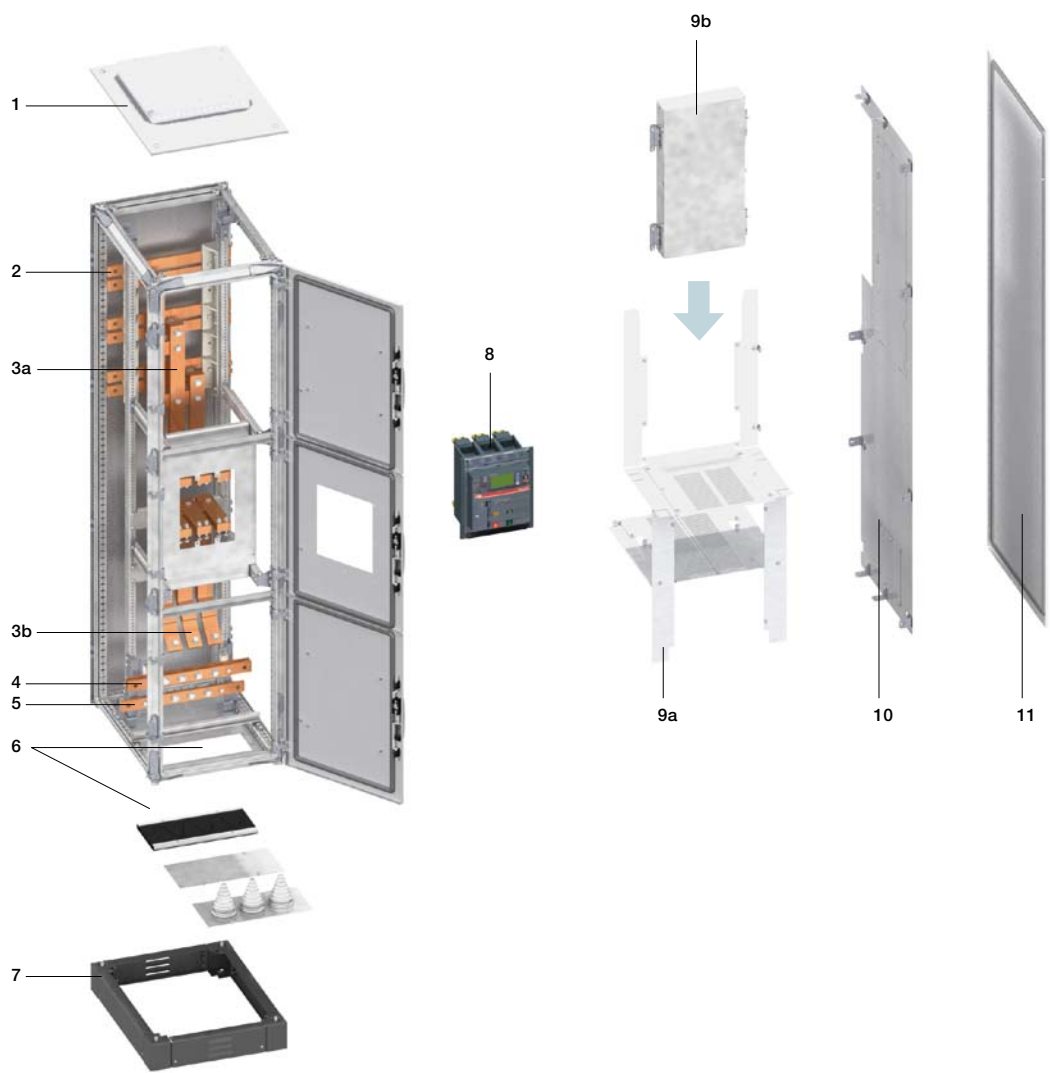
System parts



Introduction TR12 – TR40

System parts

Incoming /outgoing section



Example TR16560016

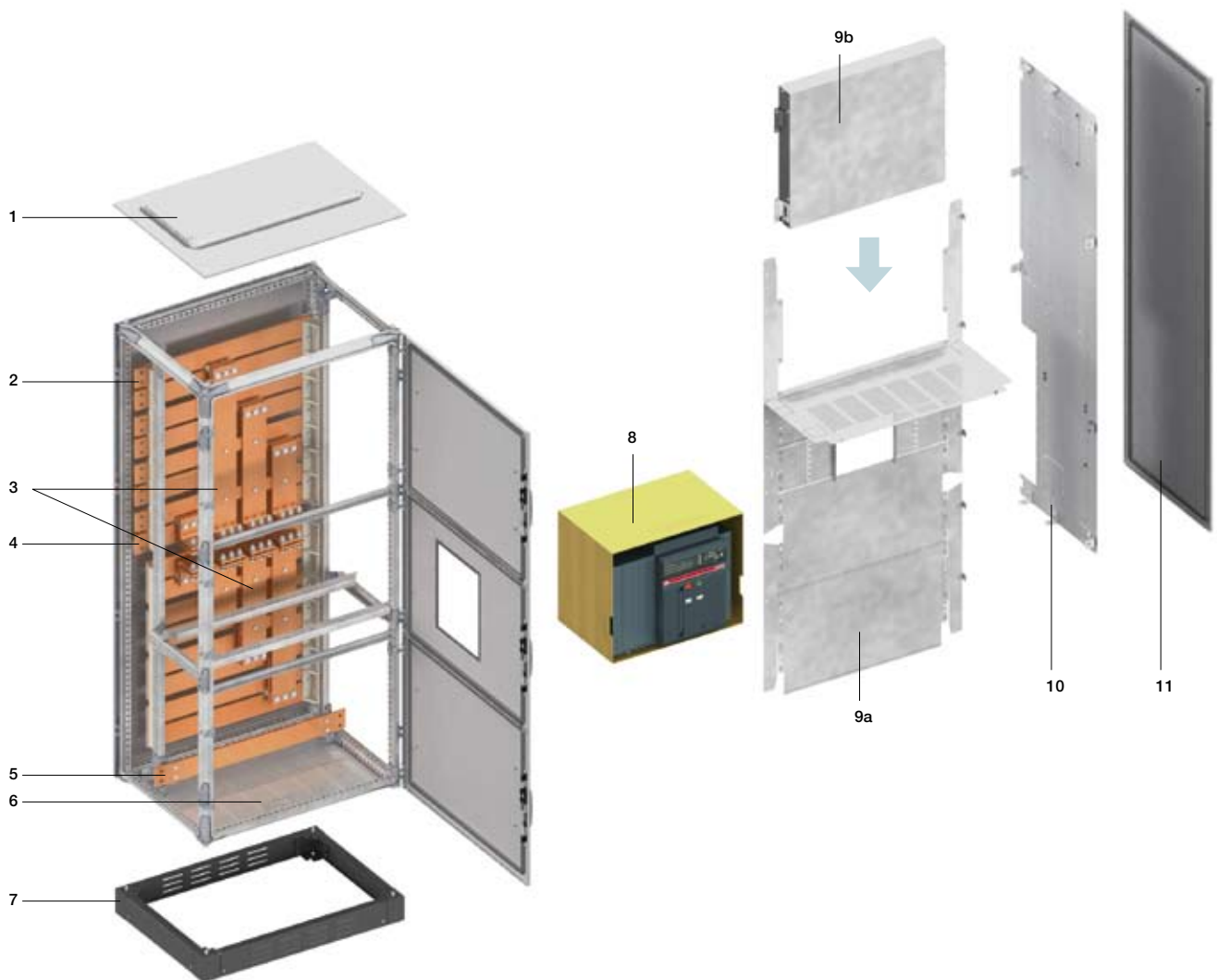
- 1. Top plate, ventilated
- 2. Main busbar system 1250 A - 4000 A
- 3a. Connection busbar system 1000 A - 4000 A
- 3b. Terminal busbar system 1000 A - 4000 A
- 4. N busbar system 100% (fitted within MBB in 4pole sections)
- 5. PE busbar system 50%
- 6. Bottom plate, ventilated, for various flanges (up to TR25)
- 7. Plinth with ventilation apertures
- 8. ABB SACE devices Tmax T6, T7 or Emax X1, E1 - E4
- 9a. Internal form of separation up to form 2b
- 9b. Measurement & control mounting plate
- 10. Cabinet segregation with removable service covers
- 11. Side wall

Note:
Main busbar system at the bottom is possible

Introduction TR12 – TR40

System parts

Coupler section



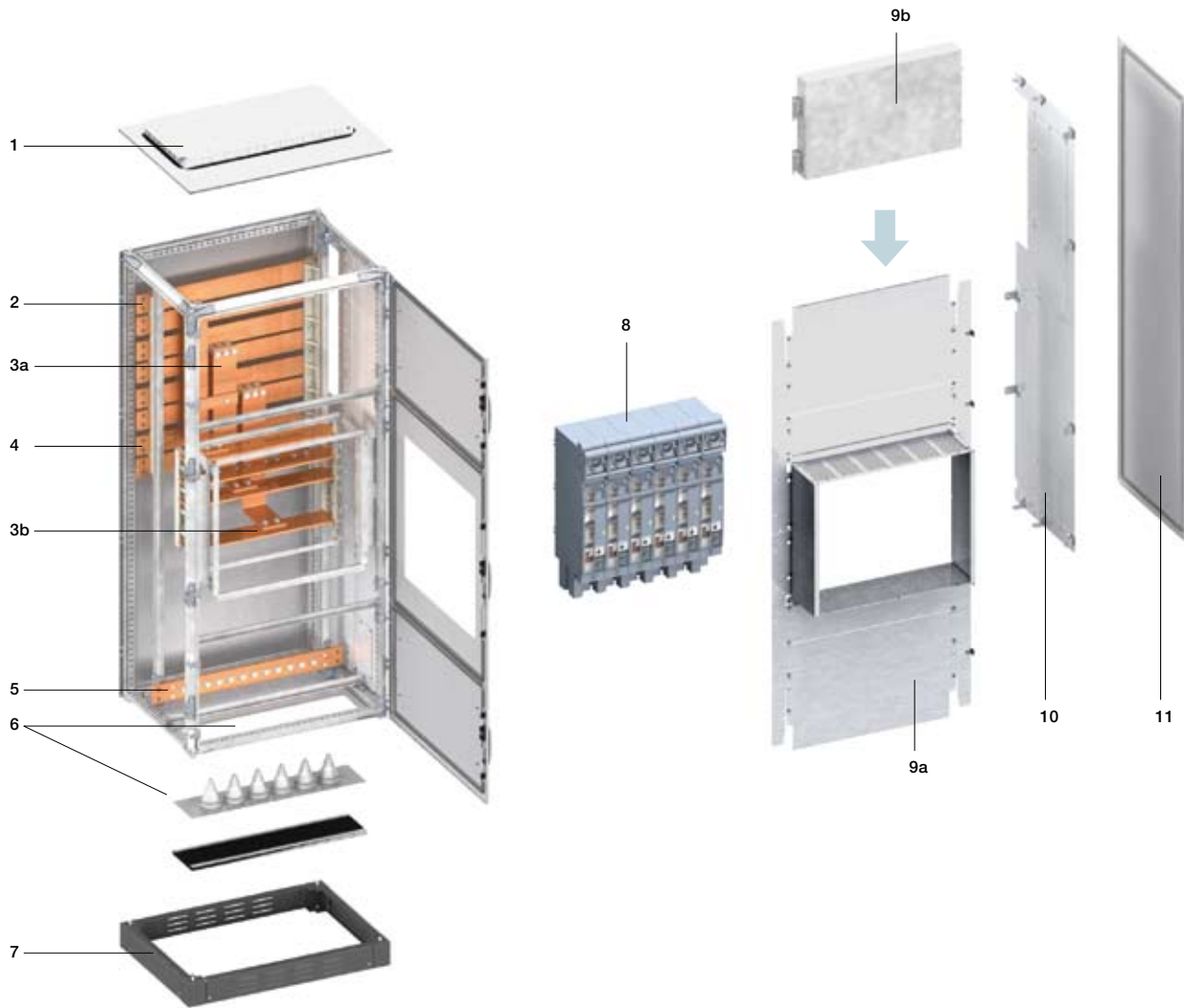
Example TR251805

1. Top plate, ventilated
2. Main busbar system 1250 A - 4000 A
3. Connection busbar system 1250 A - 4000 A
4. N busbar system 100% (fitted together with PE in 3pole sections)
5. PE busbar system 50%
6. Bottom plate, ventilated (up to TR25)
7. Plinth with ventilation apertures
8. ABB SACE devices Emax E2 - E4
- 9a. Internal form of separation up to form 2b
- 9b. Measurement & control mounting plate
10. Cabinet segregation with removable service covers
11. Side wall

Introduction TR12 – TR40

System parts

Outgoing section, vertical



Example TR257501

1. Top Plate, ventilated
2. Main busbar system 1250 A - 4000 A
- 3a. Connection busbar system 1250 A - 2000 A
- 3b. Distribution busbar system 1250 A - 2000 A
4. N busbar system 100% (fitted together with PE in 3pole sections)
5. PE busbar system 50%
6. Bottom plate, ventilated, for various flanges (up to TR25)
7. Plinth with ventilation apertures
8. ABB SlimLine devices
IPXXB busbar covers are to be used for touch protection
- 9a. Internal form of separation up to form 2b
- 9b. Measurement & control mounting plate optional
10. Cabinet segregation with removable service covers
11. Side wall

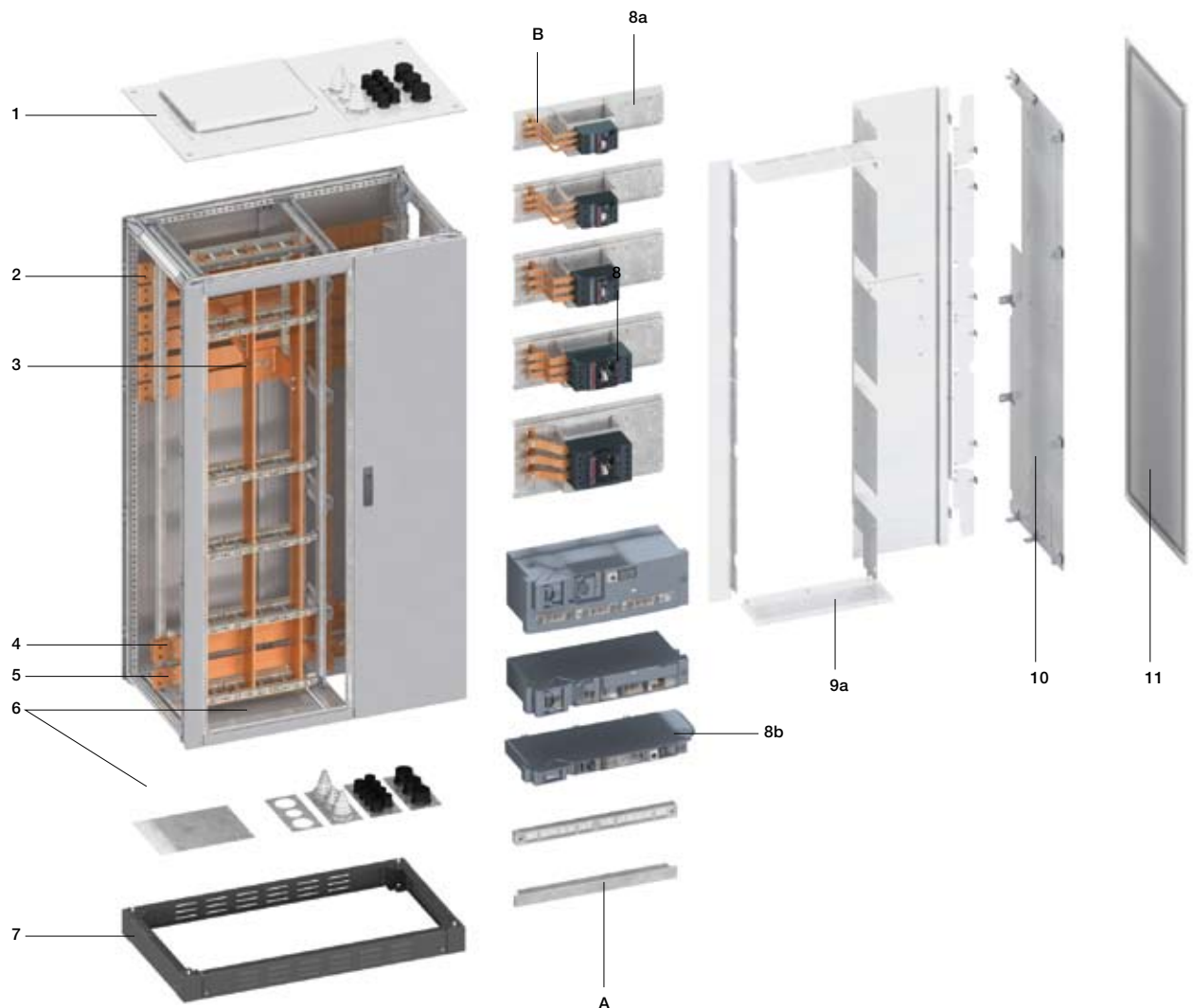
Note:

Main busbar system at the bottom is possible.

Introduction TR12 – TR40

System parts

Compartment section with cable area



Example TR25520020

1. Top Plate, ventilated, for various flanges
2. Main busbar system 1250 A - 4000 A
3. Distribution busbar system 1250 A - 2000 A
4. N busbar system 100% (fitted within MBB in 4pole sections)
5. PE busbar system 50%
6. Bottom plate, ventilated, for various flanges
7. Plinth with ventilation apertures
8. Compartments with devices Tmax T1 to T5 and other compartments
- 8a. ABB SlimLine devices
- 8b. IPXXB busbar covers are to be used for touch protection
- 9a. Internal form of separation up to form 4b (additional segregations RTW and insulating terminal covers required)
10. Cabinet segregation with removable service covers
11. Side wall

Note:

A: When using ABB SlimLine devices at the top or bottom of this section, replace the trin cover by RB7. Start populating at the top with NH1 to NH3 and from the bottom with NH00. Alternatively use a SlimLine ventilation cover.

B: Compartments with Tmax T1 to T5 must be fitted with the phase barriers (device accessory)

Main busbar system at the bottom is possible.

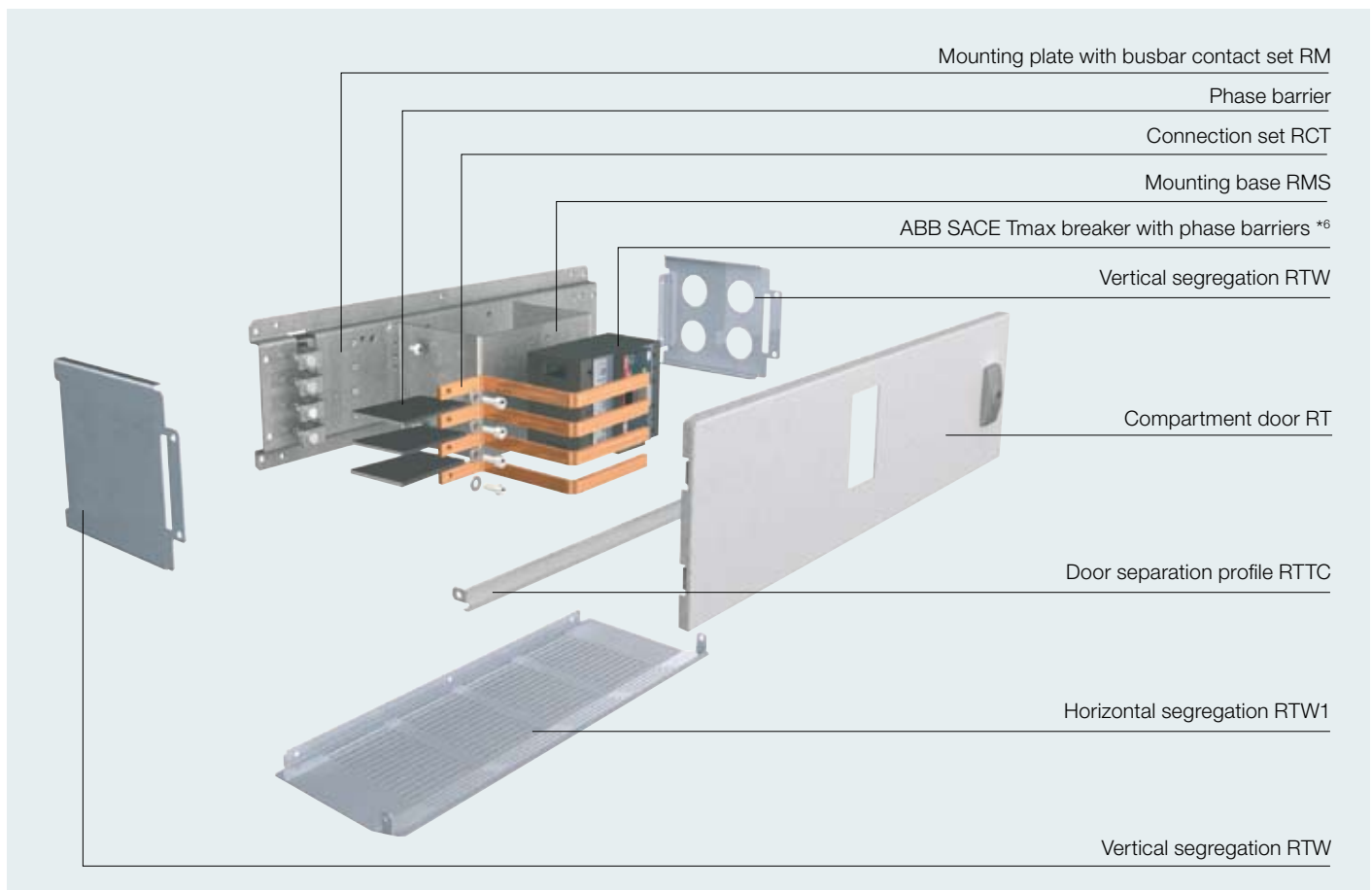
Introduction TR12 – TR40

System parts

Compartment

Description of the parts:

Mounting plate:	Pluggable mounting plate, height 150 mm, 200 mm or 300 mm, available with or without busbar contact set, 3pole or 4pole. The mounting plate has ready-prepared holes for a quick assembly of the mounting base for the circuit breaker. Attention: Please switch off the mains power before handling the mounting plate!
Mounting base:	Ready-prepared mounting base for different ABB SACE Tmax breakers.
Vertical / Horizontal segregation	Separation between compartments, as well as separation against other areas up to form 4b. To achieve form 4b with ABB SACE Tmax T1 to T5 breakers, the breakers must be equipped with insulating terminal covers for the respective breaker. The same applies when using ABB SlimLine SR/XR devices.
Compartment door:	Sheet steel door, RAL 7035, height 150 mm, 200 mm and 300 mm, with cut-out for lever or rotary handle.
Door separation profile:	Profile for assembly between compartment doors.

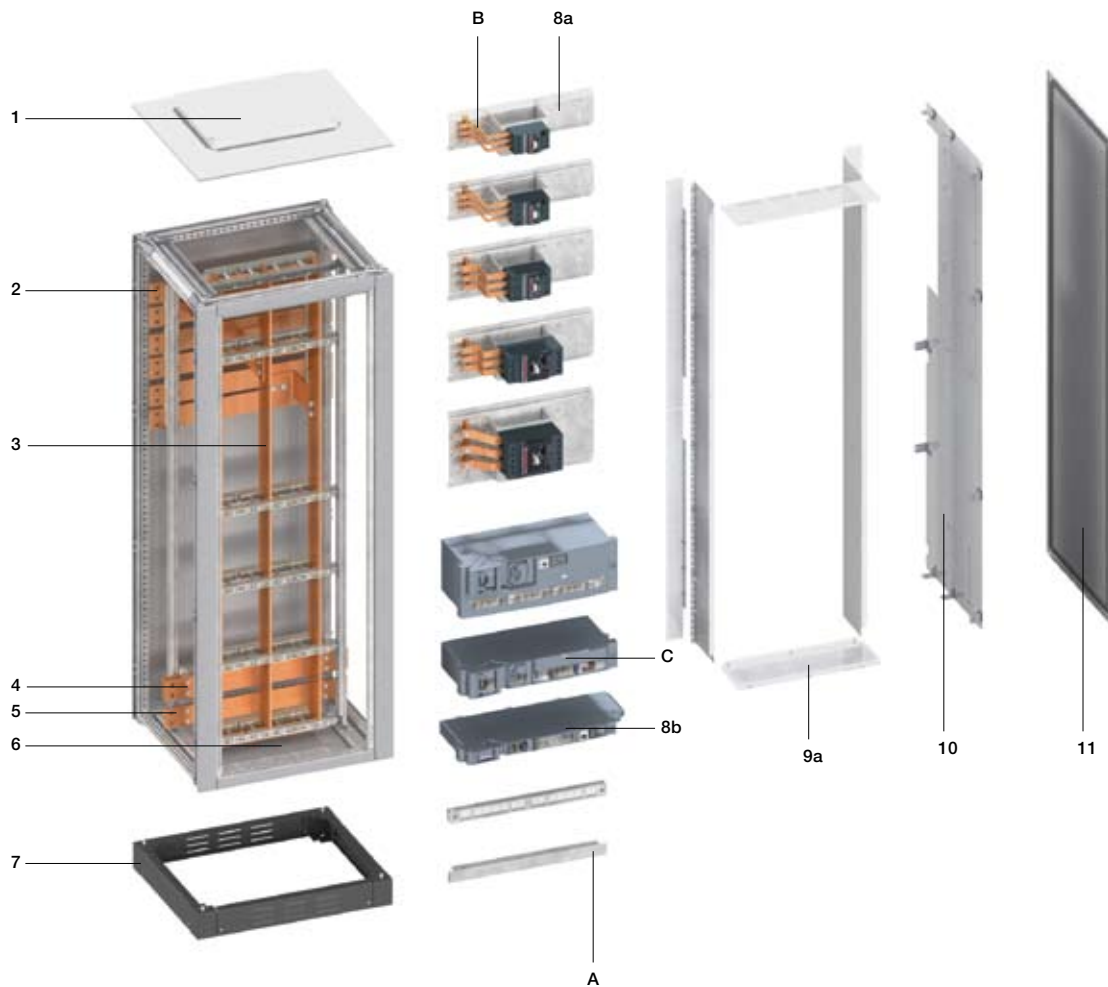


*6 200 mm Phase barriers must be ordered separately together with the breaker

Introduction TR12 – TR40

System parts

Compartment section without cable area



Example TR25530020

1. Top Plate, ventilated
2. Main busbar system 1250 A - 4000 A
3. Distribution busbar system 1250 A - 2000 A
4. N busbar system 100% (fitted within MBB in 4pole sections)
5. PE busbar system 50%
6. Bottom plate, ventilated
7. Plinth with ventilation apertures
- 8a. Compartments with devices Tmax T1 to T5 and other compartments
- 8b. ABB SlimLine XR devices
IPXXB busbar covers are to be used for touch protection
- 9a. Internal form of separation up to form 4b (additional segregations
RTW and insulating terminal covers required)
10. Cabinet segregation with removable service covers, optional
11. Side wall

Note:

A: When using ABB SlimLine devices at the top or bottom of this section, replace the trin cover by RB7. Start populating at the top with NH1 to NH3 and from the bottom with NH00. Alternatively use a SlimLine ventilation cover. In this case the horizontal segregation at the top and bottom can be omitted.

B: Compartments with Tmax T1 to T5 must be fitted with the phase barriers (device accessory)

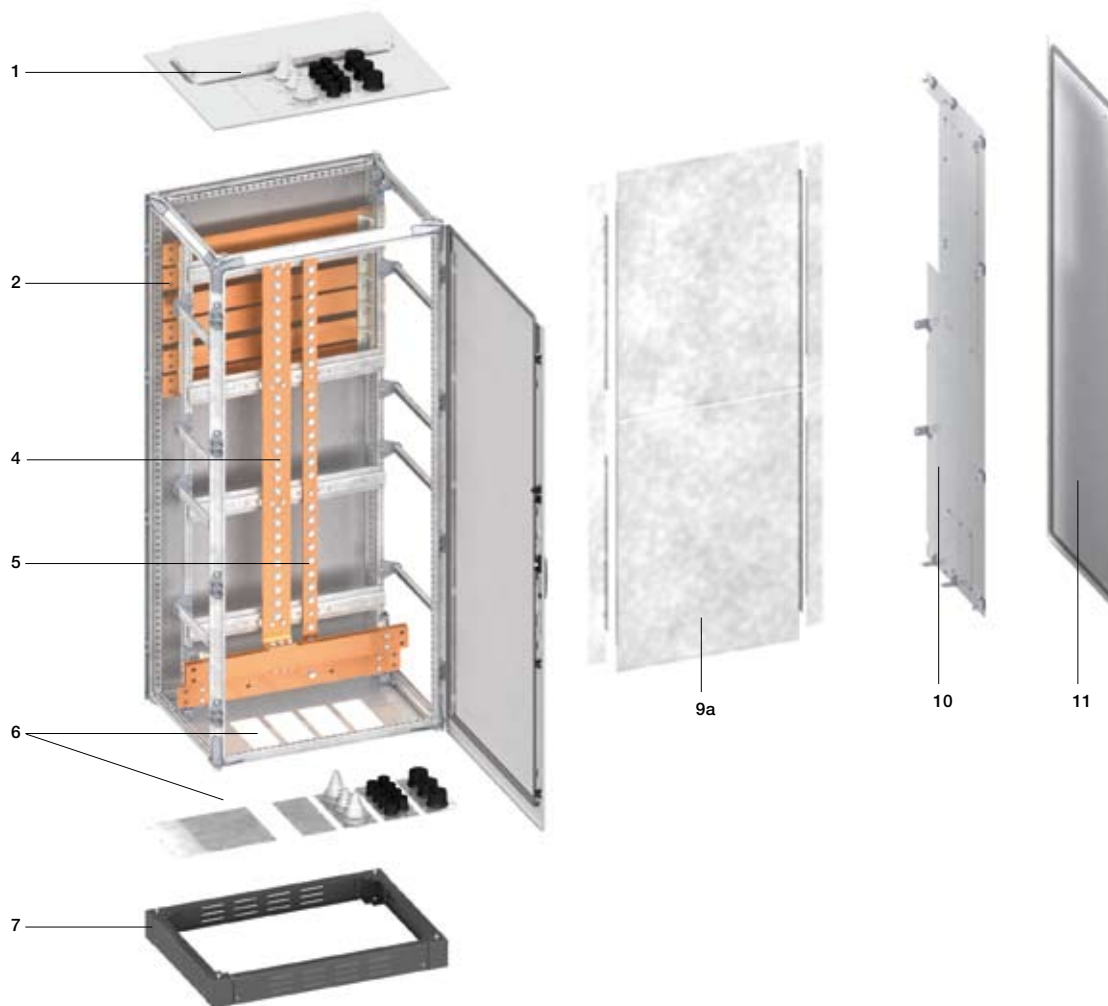
C: For touch protection of cable terminals, use the ABB SlimLine cable covers.
Size 00 + size 1 --> GZAH200093P0001,
Size 2 + size 3 --> GZAH200093P0002

Main busbar system at the bottom is possible.

Introduction TR12 – TR40

System parts

Cable section for compartment section without cable area



Example TR254900

1. Top Plate, ventilated, for various flanges
2. Main busbar system 1250 A - 4000 A
4. N busbar system 100% (fitted within MBB in 4pole sections)
5. PE busbar system 50%
6. Bottom plate, ventilated, for various flanges
7. Plinth with ventilation apertures
- 9a. Internal form of separation up to form 2b
10. Cabinet segregation with removable service covers, optional
11. Side wall

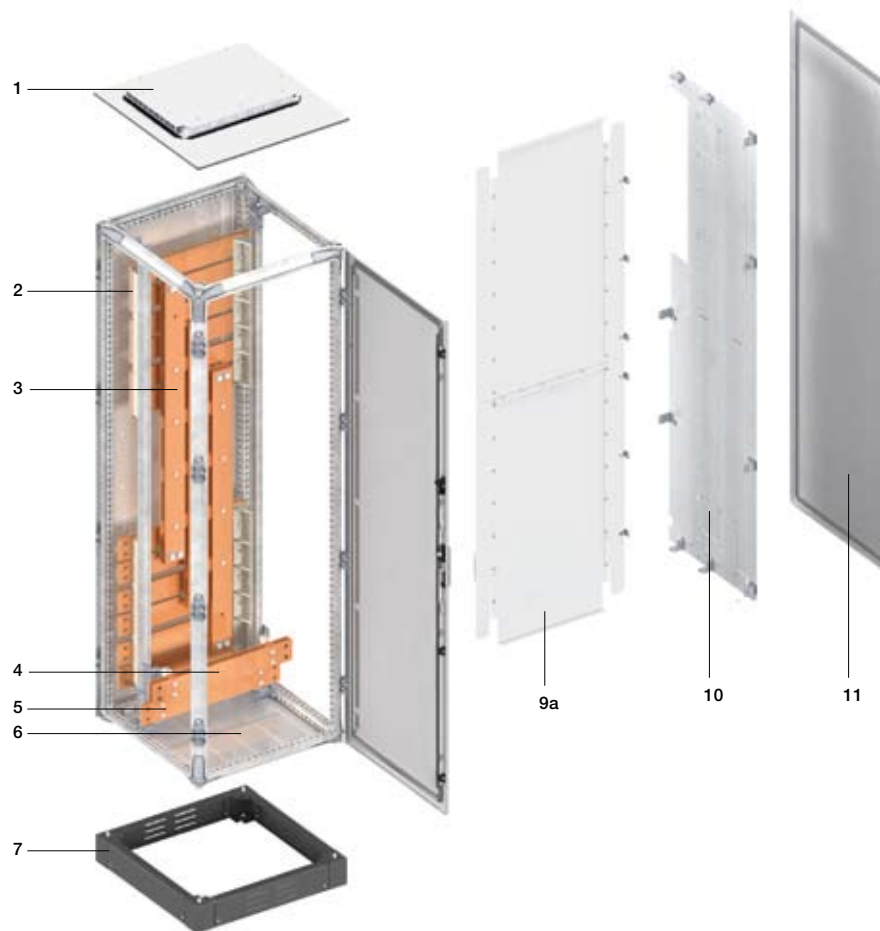
Note:

Main busbar system at the bottom is possible.

Introduction TR12 – TR40

System parts

Busbar offset section



Example TR255004

1. Top Plate, ventilated
2. Main busbar system 1250 A - 4000 A
3. Connection busbar system 2500 A - 4000 A
4. N busbar system 100% (fitted within MBB in 4pole sections)
5. PE busbar system 50%
6. Bottom plate, ventilated
7. Plinth with ventilation apertures
- 9a. Internal form of separation up to form 2b
10. Cabinet segregation with removable service covers
11. Side wall

Note:

Main busbar system at the bottom is possible.

Introduction TR12 – TR40

System parts

Corner section



Example TR255101

- 1. Top Plate, ventilated
- 2. Main busbar system 1250 A - 4000 A
- 4. N busbar system 100% (fitted together with PE in 3pole sections)
- 5. PE busbar system 50%
- 6. Bottom plate, ventilated
- 7. Plinth with ventilation apertures
- 10. Cabinet segregation with removable service covers
- 11. Side wall

Note:

Main busbar system at the bottom is possible.

Introduction TR12 – TR40

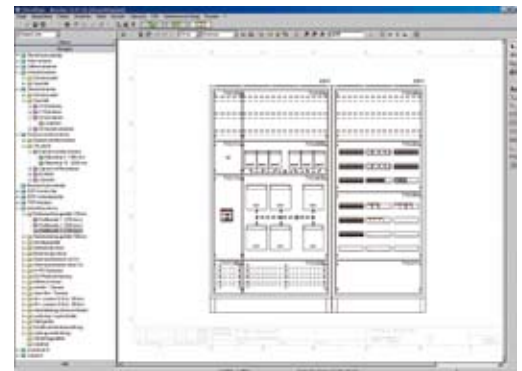
Panel Design Configurator

an all-round solution for project planning

Panel Design Configurator is an all round solution – perfectly designed, fully flexible and totally open-ended. The software is just the thing for the complete planning and design of electrical distribution systems and switchgear. You can use efficient offer documentation including part lists, design and circuit diagrams. With PDC you can work faster, better and more efficiently.

PDC-Basis – project planning made simple

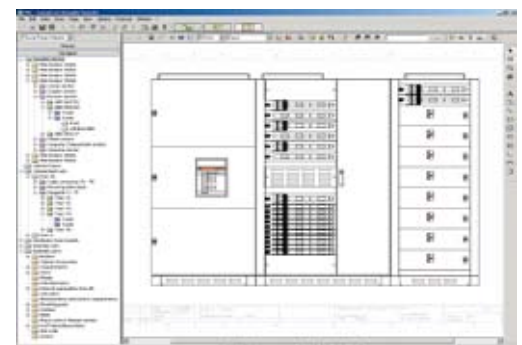
Projects can be clearly managed with Windows-standard hierarchical folder structures with direct access to parts lists, circuit diagrams and front views. Projects can be displayed and processed in the parts lists or in the front view. The easy-to-use product navigator allows you to select the items and paste them in using drag & drop.



ADD-ON MODULE

PDC-TPS – TriLine® Power Solutions

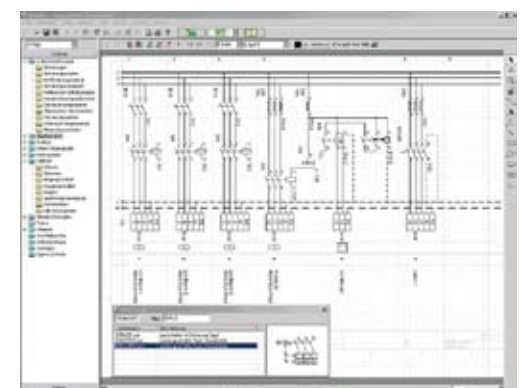
This add-on, available to registered and TTA-partners, incorporates all the information required to plan switchboards with higher rated currents. From 1250 A to 4000 A you can plan your layout and calculate your project quickly and effectively. Whether you are planning your incoming circuit breaker, outgoing breakers or fuse switch disconnectors, this add-on allows you to configure according to your requirements and provides you with front views and parts lists accordingly.



ADD-ON MODULE

PDC-SLP – compiling circuit diagrams is simplicity itself

The new PDC-SLP module for designing circuit diagrams will now replace the tried and tested StrieCad program. PDC-SLP combines the simple, modern interface of PDC with the tried and tested functions of StrieCad, while offering a wide range of new functions for compiling circuit diagrams. PDC-SLP offers maximum flexibility in planning projects.

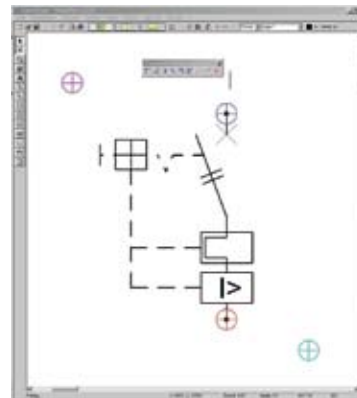




ADD-ON MODULE

PDC-GEN – generate your own symbols

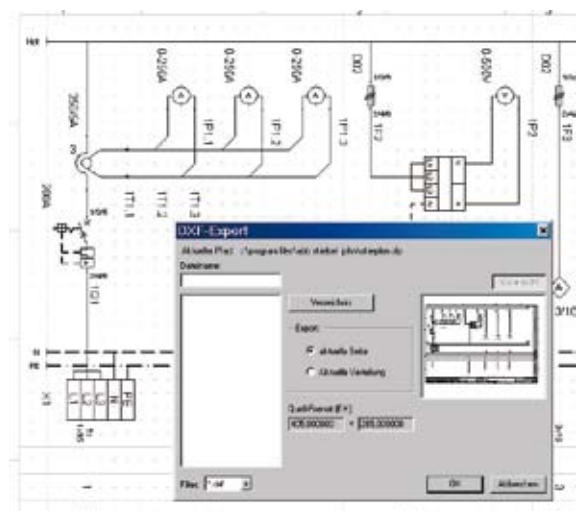
You can produce your own symbols using the symbol generator module. The free basic version of Panel Design Configurator comes with over 5,000 graphical symbols. Another 1,500 symbols are contained in the add-on module Panel Design Configurator-SLP. If you wish to add other vital symbols to your designs, the symbol generator is the tool you need to create them.



ADD-ON MODULE

PDC-EXP – data exports in various formats

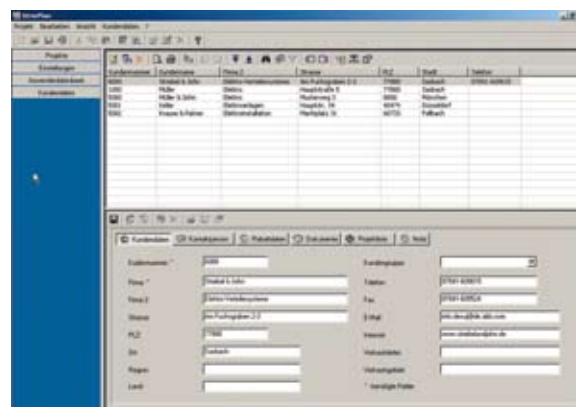
Panel Design Configurator-EXP is available for exporting data to other application programs. Offers, parts lists, circuit diagrams and front views can be transmitted in various formats. Circuit diagrams and plan views are exported in DXF format. Offers and parts lists are exported in Acrobat PDF, RTF, Word, Excel or Text formats.



ADD-ON MODULE

Panel Design Configurator-CPM – customer management

The Panel Design Configurator-CPM add-on module provides all the necessary information and activities for configuration with the Panel Design Configurator. The software comprises address data, contacts, customer-specific discounts, documents, notes and all customer-specific projects.



Introduction TR12 – TR40

Comprehensive Information

At STRIEBEL & JOHN, dialog with the practitioners who actually use our products is very important. This is why our brochures and catalogues are designed around the needs of our customers. We have combined product information for all fields and targeted it towards installation engineers, planners, switchgear manufacturers and electrical wholesale dealers. Our catalogues and brochures provide information that you will find useful in your day to day work.

Main Catalogues

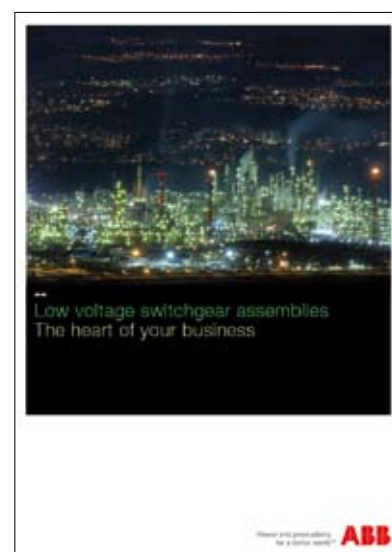
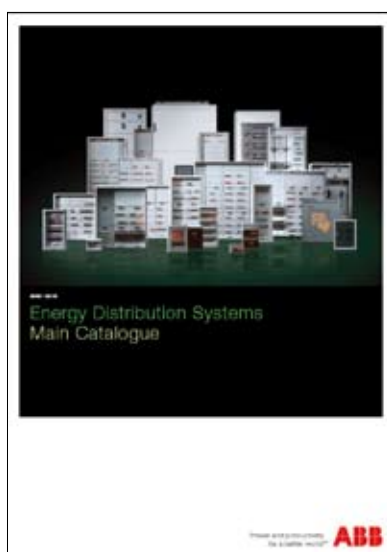
The main catalogue, and TriLine® power solutions catalogue present STRIEBEL & JOHN's entire range of products, from consumer units for domestic buildings to wall and floor-standing cabinets for large building complexes, through to modular switchgear cabinets for powerful industrial plants.

The contents of the catalogues have been adapted to the specific needs and requirements of the relevant individual groups of consumers and areas of application. The catalogues also provide comprehensive information on configuring, costing and assembling electrical distribution systems. Technical specifications, notes on standards and much more, complete the catalogues and ensure that they are an indispensable tool for the electrical specialist.

All our catalogues can be ordered in a print version, or can be downloaded as a PDF file from our website at www.striebelundjohn.com.

Product Brochures

In addition to our main catalogues, we also offer other product brochures. The technical specifications and comprehensive product information they contain provide you with valuable support when planing and configuring our distribution systems. The brochures are available in a print version or as download from the website at www.striebelundjohn.com.

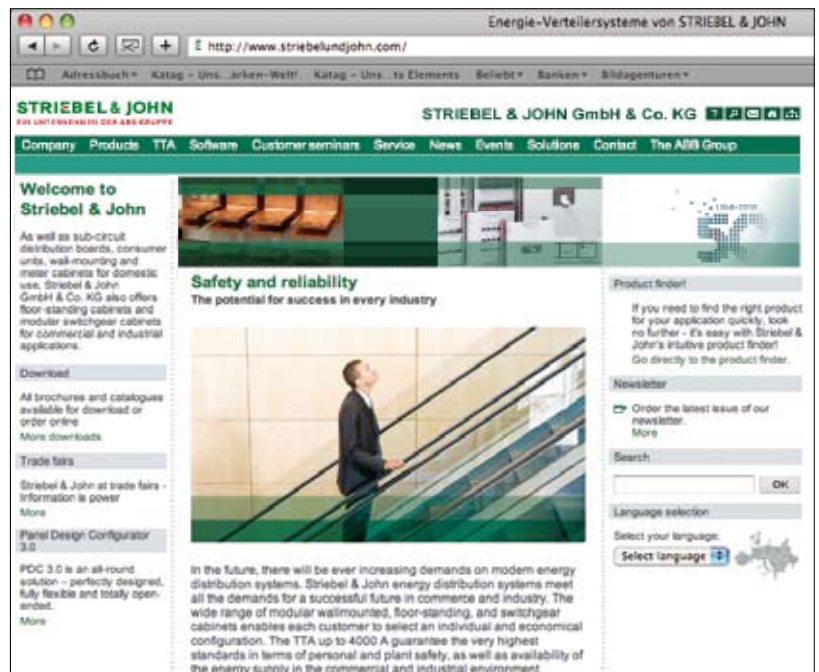


www.striebelundjohn.com

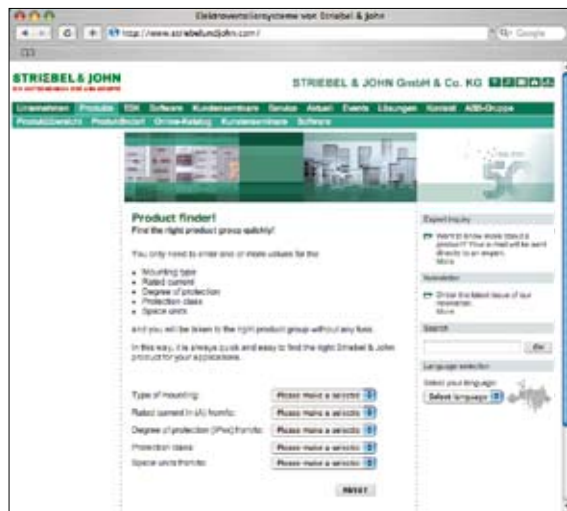
Go online to find valuable, useful information. Our homepage provides an overview of our company, our products and our services. Our download area contains current product brochures and the latest technology from the world of electrical distribution systems.

E-mail Newsletter

For our registered and TTA-partners, we have set up a "Premium Forum". Here you will find additional information such as documentation, mounting instruction and software.



You can download or order our current product brochures from www.striebelundjohn.com.



Introduction TR12 – TR40

National and international standards

Nothing is more important to us than safety. When it comes to the safety of our products, we make no compromises. Compliance with laws, standards, specifications, and guidelines in accordance with the latest technology is therefore a prerequisite for product development at STRIEBEL & JOHN. The TriLine® modular switchgear cabinet system is manufactured in accordance with the following standards, specifications, and certifications:

- IEC 61439-1
- IEC 61439-2
- IEC 60439-1
- DIN EN 60439-1
- VDE 0660-500
- DIN 43660
- DIN 43880
- GOST R 51321.1-2000
- UL508A Type 1 (empty cabinet)

Inspection certificate to IEC 60439-1 VDE 0660 Part 500

Company:			
Order/			
Project:			
Position:			
Type:			

No.	Type tests	Sub-clauses	☐ TTA (type-tested)	☐ PTTA (partially type-tested)
1	Temperature rise limits	8.2.1	☐	☐
2	Dielectric properties	8.2.2	☐	☐
3	Short-circuit withstand strength	8.2.3	☐	☐
4	Effectiveness of the protective circuit	8.2.4	☐	☐
	Effective connection between the exposed conductive parts of the assembly and the protective circuit	8.2.4.1	☐	☐
	Short-circuit withstand strength of the protective circuit	8.2.4.2	☐	☐
5	Clearances and creepage distances	8.2.5	☐	☐
6	Mechanical operation	8.2.6	☐	☐
7	Degree of protection	8.2.7	☐	☐
Routine tests				
8	Wiring, electrical operation	8.3.1	☐	☐
9	Insulation	8.3.2	☐	☐
10	Protective measures	8.3.3	☐	☐
	General visual inspection		☐	☐
	Mechanical testing		☐	☐
	Documentation		☐	☐

Testing carried out in accordance with standard ISO 9001 /

Date: _____ Tested by: _____ Production manager: _____

* Type test
☐ Type test/Inspection/Certification
Marked B



Technical specifications

Standards/Regulations

Compliance with standards	IEC 60439-1 (EN 60439-1) / IEC 61439-1, IEC 61439-2
Degree of Protection	IP 30
Conditions of installations	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 class	I
Rated frequency	50 Hz
Rated insulation voltage (U)	1000 V
Rated operational voltage (U_g)	690 V AC

Main busbar system MBB

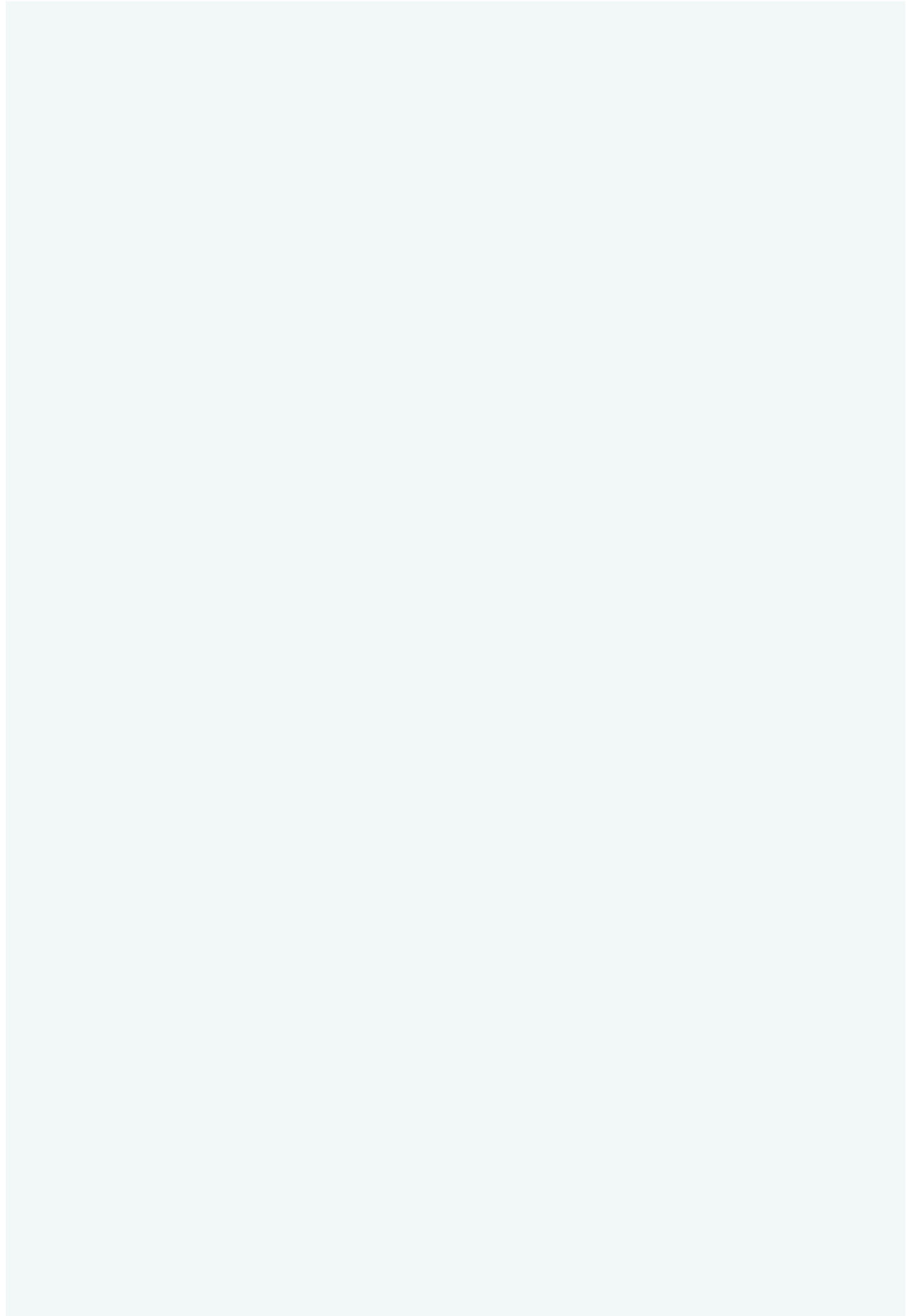
Rated current (I_n)	1250 A	1600 A	2000 A	2500 A	3500 A	4000 A
Rated peak withstand current (I_{pk})	105 kA	165 kA	165 kA	165 kA	220 kA	220 kA
Rated short-time withstand current (I_{cw})	50 kA	75 kA	75 kA	75 kA	100 kA	100 kA
Cabinet depth	625 mm	625 mm	625 mm	625 mm	825 mm	825 mm

Distribution busbar system DBB

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

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	galvanised sheet steel 1,5 mm



TR12 -TR40

Main busbar ordering information



TR12 – Main busbar system 1250 A, 3pole

Overview

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Technical Specifications.....	1 - 1
Incoming / outgoing sections for breaker, type ABB SACE T6, T7, X1	1 - 2
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Coupler sections for breaker, type ABB SACE E2	1 - 4
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Outgoing sections for fuse switch disconnecter, type ABB SlimLine XR.....	1 - 5
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Cable section	1 - 7



TR12 – Main busbar system 1250 A, 3pole

Technical specifications

Standards/Regulations

Compliance with standards	IEC 60439-1 (EN 60439-1) / IEC 61439-1, IEC 61439-2
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 class	I
Rated frequency	50 Hz
Rated insulation voltage (U_i)	1000 V
Rated operational voltage (U_o)	690 V AC

Main busbar system

MBB

Rated current (I_n)	1250 A
Rated peak withstand current (I_{pk})	105 kA
Rated short time withstand current (I_{sw})	50 kA

Distribution busbar system

DBB

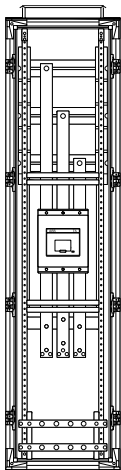
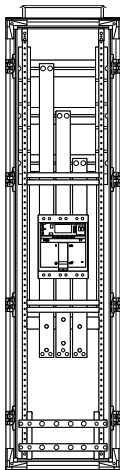
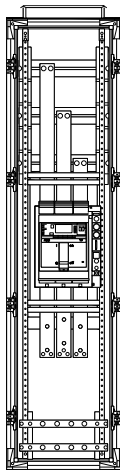
Rated current (I_n)	1250 A
Rated peak withstand current (I_{pk})	105 kA
Rated short time withstand current (I_{sw})	50 kA

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	galvanised sheet steel 1,5 mm

TR12 – Main busbar system 1250 A, 3pole

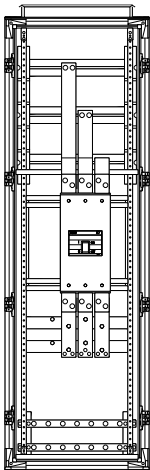
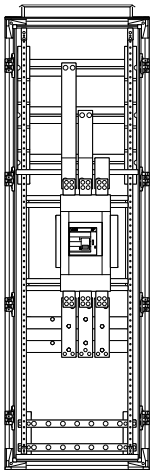
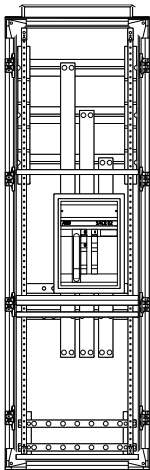
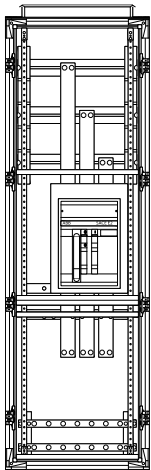
Incoming / outgoing sections for breaker,
type ABB SACE T6, T7, X1

TR12 - 1250 A, 3pole		TR12540010		TR12560012		TR12570012	
System TR12 Main busbar system 1250 A, 3pole Protection class 1 Degree of protection IP 30 Dead front assembly Without devices		Incoming / outgoing section ABB T6 fixed DBB 1000 A MBB 1250 A, 2 x Cu 30 x 10 DBB 1000 A, 1 x Cu 50 x 10 N 100 %, 2 x Cu 30 x 10 PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)		Incoming / outgoing section ABB T7 / X1 fixed DBB 1250 A MBB 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 30 x 10 PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)		Incoming / outgoing section ABB T7 / X1 withdrawable DBB 1250 A MBB 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 30 x 10 PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)	
Height x width x depth (mm)		1963 x 489 x 625		1963 x 489 x 625		1963 x 489 x 625	
Weight of complete cabinet		131 kg		135 kg		131 kg	
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Rear terminals - R		Prepared for breaker with rear terminals - HR		Prepared for breaker with rear terminals - R	
Dimensions of CT's		Window of CT's 50 mm x 10 mm Max width of CT's 90 mm		Window of CT's 60 mm x 10 mm Max width of CT's 88 mm		Window of CT's 60 mm x 10 mm Max width of CT's 88 mm	
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR12540010	65869	1	TR12560012	65875
Accessories	Required for Form 2b	1	MSR11/600	65993	1	MSR11/600	65993
	Set for internal form of separation	1	RTW255402	46943	1	RTW255602	46944
	Flange selection	1	RZ68	46946	1	RZ68	46946
	Aluminium flange plate, closed	1	RZF20	46948	1	RZF20	46948
	Aluminium flange plate, with cable support sleeves	1	RZF21	46949	1	RZF21	46949
	Connection set selection	1	RZ190	46638	1	RZ190	46638
	Busbar connection set (N busbars on the same level)	1	RZ191	46639	1	RZ191	46639
	Busbar connection set (N busbars on a different level) *1	1	RZ191	46639	1	RZ191	46639
	Other accessories	1	RSR116L	46936	1	RSR116L	46936
	Mechanical cabinet / cabinet connection	1	RZ148	46300	1	RZ148	46300
	Set of side walls	1 *	RSW86P2	45822	1 *	RSW86P2	45822

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TR12 – Main busbar system 1250 A, 3pole

Incoming / outgoing sections for breaker,
type ABB SACE S7 and ABB SACE E2

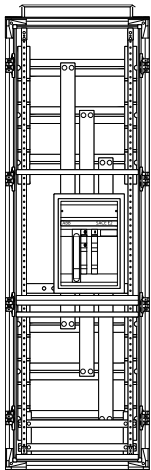
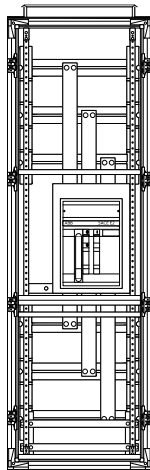
TR120100			TR120200			TR120500			TR120600		
Incoming / outgoing section ABB S7 fixed DBB 1250 A MBB 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 30 x 10 PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)			Incoming / outgoing section ABB S7 withdrawable DBB 1250 A MBB 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 30 x 10 PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)			Incoming / outgoing section ABB E2 fixed DBB 1250 A MBB 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 30 x 10 PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)			Incoming / outgoing section ABB E2 withdrawable DBB 1250 A MBB 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 30 x 10 PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)		
1963 x 614 x 625			1963 x 614 x 625			1963 x 614 x 625			1963 x 614 x 625		
155 kg			147 kg			142 kg			139 kg		
											
Front extended terminals - EF			Front extended terminals - EF			Prepared for breaker with rear terminals - R			Prepared for breaker with rear terminals - R		
Window of CT's 60 mm x 10 mm Max width of CT's 86 mm			Window of CT's 60 mm x 10 mm Max width of CT's 86 mm			Window of CT's 60 mm x 10 mm Max width of CT's 120 mm			Window of CT's 60 mm x 10 mm Max width of CT's 120 mm		
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR120100	65764	1	TR120200	65765	1	TR120500	65766	1	TR120600	65767
1	MSR2/450	65994	1	MSR2/450	65994	1	MSR2/600	65995	1	MSR2/600	65995
1	RTW2501	46881	1	RTW2501	46881	1	RTW2502	46882	1	RTW2503	46883
1	RZ65	46225	1	RZ65	46225	1	RZ65	46225	1	RZ65	46225
1	RZF12	46615	1	RZF12	46615	1	RZF12	46615	1	RZF12	46615
1	RZ190	46638	1	RZ190	46638	1	RZ190	46638	1	RZ190	46638
1	RZ191	46639	1	RZ191	46639	1	RZ191	46639	1	RZ191	46639
1	RSR26L	66800	1	RSR26L	66800	1	RSR26L	66800	1	RSR26L	66800
1	RZ148	46300	1	RZ148	46300	1	RZ148	46300	1	RZ148	46300
1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822

*2CPX0*****R9999

* Only one set required per assembly

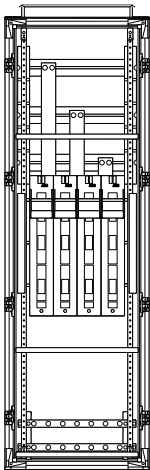
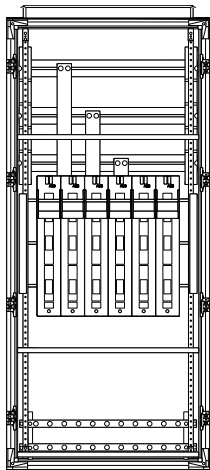
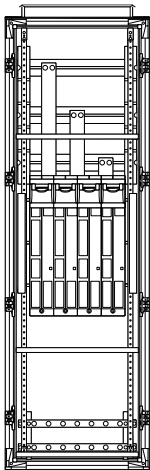
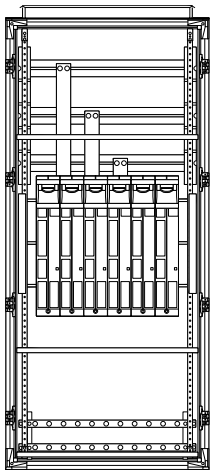
TR12 – Main busbar system 1250 A, 3pole

Coupler section, type ABB SACE E2

TR12 - 1250 A, 3pole		TR121504		TR121604			
System TR12 Main busbar system 1250 A, 3pole Protection class 1 Degree of protection IP 30 Dead front assembly Without devices		Coupler section ABB E2 fixed DBB 1250 A MBB 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 30 x 10 PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)		Coupler section ABB E2 withdrawable DBB 1250 A MBB 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 30 x 10 PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)			
Height x width x depth (mm)		1963 x 614 x 625		1963 x 614 x 625			
Weight of complete cabinet		153 kg		149 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Prepared for breaker with rear terminals - R		Prepared for breaker with rear terminals - R			
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR121504	65768	1	TR121604	65769
Accessories	Required for form 2b	1	MSR2/600	65995	1	MSR2/600	65995
	Set for internal form of separation	1	RTW2506	46886	1	RTW2507	46887
	Flange selection						
	Microcellular rubber sinusoidal flange						
	Aluminium flange plate, closed						
	Aluminium flange plate, with cable support sleeves						
	Connection set selection	1	RZ190	46638	1	RZ190	46638
	Busbar connection set (N busbars on the same level)	1	RZ191	46639	1	RZ191	46639
	Busbar connection set (N busbars on a different level) *1	1	RZ191	46639	1	RZ191	46639
Other accessories	Plinth with ventilation apertures	1	RSR26L	66800	1	RSR26L	66800
	Mechanical cabinet / cabinet connection	1	RZ148	46300	1	RZ148	46300
	Set of side walls	1 *	RSW86P2	45822	1 *	RSW86P2	45822

TR12 – Main busbar system 1250 A, 3pole

Outgoing sections for fuse switch disconnecter,
type ABB SlimLine SR / XR

TR124000			TR124100			TR127400			TR127500		
Outgoing section ABB SlimLine SR, 2-panels wide			Outgoing section ABB SlimLine SR, 3-panels wide			Outgoing section ABB SlimLine XR, 2-panels wide			Outgoing section ABB SlimLine XR, 3-panels wide		
Devices vertical			Devices vertical			Devices vertical			Devices vertical		
MBB 1250 A, 2 x Cu 30 x 10			MBB 1250 A, 2 x Cu 30 x 10			MBB 1250 A, 2 x Cu 30 x 10			MBB 1250 A, 2 x Cu 30 x 10		
DBB 1250 A, 1 x Cu 60 x 10			DBB 1250 A, 1 x Cu 60 x 10			DBB 1250 A, 1 x Cu 60 x 10			DBB 1250 A, 1 x Cu 60 x 10		
N 100 %, 2 x Cu 30 x 10			N 100 %, 2 x Cu 30 x 10			N 100 %, 2 x Cu 30 x 10			N 100 %, 2 x Cu 30 x 10		
PE 50 %, 1 x Cu 30 x 10			PE 50 %, 1 x Cu 30 x 10			PE 50 %, 1 x Cu 30 x 10			PE 50 %, 1 x Cu 30 x 10		
(Dimensions in mm)			(Dimensions in mm)			(Dimensions in mm)			(Dimensions in mm)		
1963 x 614 x 625			1963 x 864 x 625			1963 x 614 x 625			1963 x 864 x 625		
141 kg			153 kg			134 kg			163 kg		
											
Maximum usable width 400 mm			Maximum usable width 600 mm			Maximum usable width 400 mm			Maximum usable width 600 mm		
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR124000	65774	1	TR124100	65775	1	TR127400	65580	1	TR127500	65581
1	MSR2/450 *2	65994	1	MSR3/450 *2	65996	1	MSR2/450 *2	65994	1	MSR3/450 *2	65996
1	RTW2540021	47024	1	RTW2541021	47025	1	RTW2540021	47024	1	RTW2541021	47025
1	RZ65	46225	1	RZ66	46226	1	RZ65	46225	1	RZ66	46226
1	RZF12	46615	1	RZF13	46616	1	RZF12	46615	1	RZF13	46616
1	RZ190	46638	1	RZ190	46638	1	RZ190	46638	1	RZ190	46638
1	RZ191	46639	1	RZ191	46639	1	RZ191	46639	1	RZ191	46639
1	RSR26L	66800	1	RSR36L	66801	1	RSR26L	66800	1	RSR36L	66801
1	RZ148	46300	1	RZ148	46300	1	RZ148	46300	1	RZ148	46300
1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822

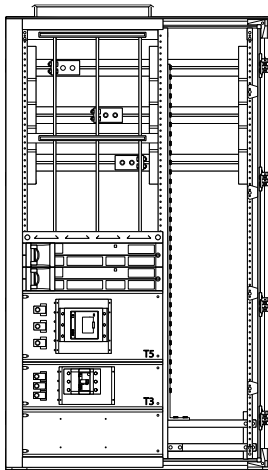
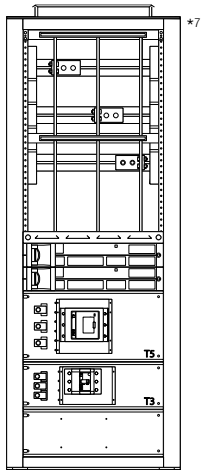
*2CPX0*****R9999

* Only one set required per assembly | *2 The measurement & control mounting plate can easily be added, due to prepared perforations on the internal segregation

TR12 – Main busbar system 1250 A, 3pole

Outgoing sections for compartments with cable area

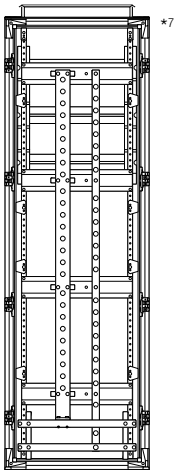
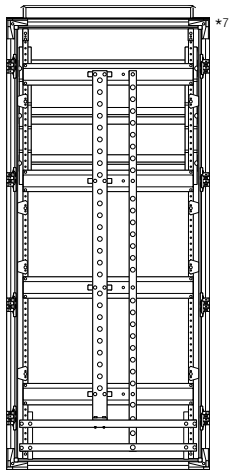
Outgoing sections for compartments without cable area

TR12 - 1250 A, 3pole		TR12520012		TR12530012			
System TR12 Main busbar system 1250 A, 3pole Protection class 1 Degree of protection IP 30 Dead front assembly Without devices		Comp. section with cable area ABB SlimLine / compartments ABB DBB 1250A MBB 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 30 x 10 / 1 x Cu 60 x 10 PE 50 %, 1 x Cu 30 x 10 / 1 x Cu 30 x 10 (Dimensions in mm)		Comp. section without cable area SlimLine / compartments ABB DBB 1250A MBB 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 30 x 10 PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)			
Height x width x depth (mm)		1963 x 1114 x 625		1963 x 740 x 625			
Weight of complete cabinet		232 kg		173 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Maximum usable height 1800 mm		Maximum usable height 1800 mm			
		Always use Tmax breaker phase barriers*6		Always use Tmax breaker phase barriers*6			
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR12520012	65617	1	TR12530012	65619
Accessories	Required for form 2b						
	Mounting plate for measurement and control applications						
	Set for internal form of separation	1	RTW255202	66696	1	RTW255302	66697
	Flange selection	2	RZF4	46405			
		6	RZF1	66832			
		6	RZF6	46609			
	Connection set selection	1	RZ190	46638	1	RZ190	46638
		1	RZ191	46639	1	RZ191	46639
	Other accessories	1	RSR46L	66802	1	RSR216L	66281
		1	RZ148	46300	1	RZ148	46300
		1 *	RSW86P2	45822	1 *	RSW86P2	45822

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TR12 – Main busbar system 1250 A, 3pole

Cable section

TR124800			TR124900					
Cable section 2-panels wide MBB 1250 A, 2 x Cu 30 x 10 N 100 %, 2 x Cu 30 x 10 / 1 x Cu 60 x 10 PE 50 %, 1 x Cu 30 x 10 / 1 x Cu 30 x 10 (Dimensions in mm) 1963 x 614 x 625 124 kg			Cable section 3-panels wide MBB 1250 A, 2 x Cu 30 x 10 N 100 %, 2 x Cu 30 x 10 / 1 x Cu 60 x 10 PE 50 %, 1 x Cu 30 x 10 / 1 x Cu 30 x 10 (Dimensions in mm) 1963 x 864 x 625 148 kg					
								
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR124800	65783	1	TR124900	65784			
1	RTW254802	66396	1	RTW254902	66397			
2	RZF4	46405	2	RZF5	46406			
6	RZF1	66832	8	RZF1	66832			
6	RZF6	46609	8	RZF6	46609			
1	RZ190	46638	1	RZ190	46638			
1	RZ191	46639	1	RZ191	46639			
1	RSR26L	66800	1	RSR36L	66801			
1	RZ148	46300	1	RZ148	46300			
1 *	RSW86P2	45822	1 *	RSW86P2	45822			

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* Only one set required per assembly | *6 200 mm Phase barriers must be ordered separately together with the breaker | *7 Order segregation wall separately as required

TR12 – Main busbar system 1250 A, 4pole

Overview

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Outgoing sections for compartments with cable area.....	2 - 6
Outgoing sections for compartments without cable area	2 - 6
Cable section	2 - 7



TR12 – Main busbar system 1250 A, 4pole

Technical specifications

Standards/Regulations

Compliance with standards	IEC 60439-1 (EN 60439-1) / IEC 61439-1, IEC 61439-2
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

impulse withstand voltage (U_{imp})	8 kV
Overvoltage category	IV
Pollution degree	3
Protection class	I
Rated frequency	50 Hz
Rated insulation voltage (U)	1000 V
Rated operating voltage (U_o)	690 V AC

Main busbar system

MBB

Rated current (I_n)	1250 A
Rated peak withstand current (I_{pk})	105 kA
Rated short time withstand current (I_{sw})	50 kA

Distribution busbar system

BDD

Rated current (I_n)	1250 A
Rated peak withstand current (I_{pk})	105 kA
Rated short time withstand current (I_{sw})	50 kA

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	galvanised sheet steel 1,5 mm

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

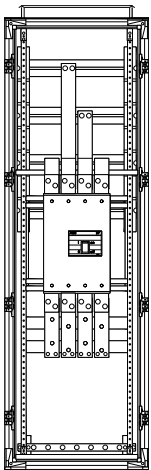
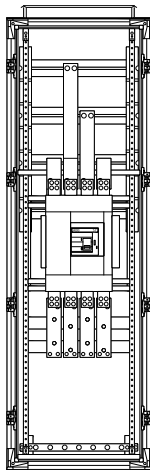
TR40 - 4000 A
3pole

Compartments

Accessories

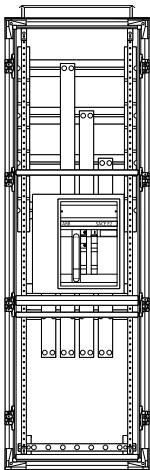
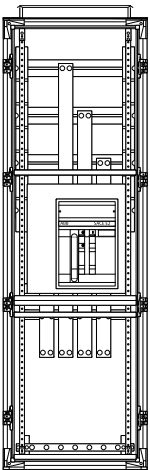
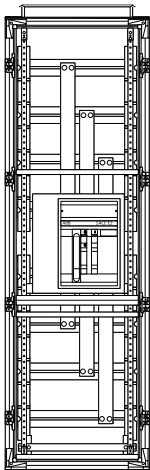
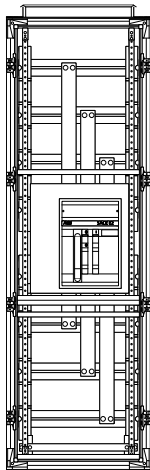
TR12 – Main busbar system 1250 A, 4pole

Incoming / outgoing sections for breaker,
type ABB SACE S7

TR12 - 1250 A, 4pole		TR120101		TR120201			
System TR12 Main busbar system 1250 A, 4pole Protection class 1 Degree of protection IP30 Dead front assembly Without devices		Incoming / outgoing section ABB S7 fixed DBB 1250 A HSS 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N100% *3 PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)		Incoming / outgoing section ABB S7 withdrawable DBB 1250 A HSS 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N100% *3 PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)			
Height x width x depth (mm)		1963 x 614 x 625		1963 x 614 x 625			
Weight of complete cabinet		162 kg		153 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Front extended terminals - EF		Front extended terminals - EF			
Dimensions of CT's		Window of CT's 60 mm x 10 mm Max width of CT's 86 mm		Window of CT's 60 mm x 10 mm Max width of CT's 86 mm			
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR120101	65785	1	TR120201	65786
Accessories	Required for form 2b	1	MSR2/450	65994	1	MSR2/450	65994
	Set for internal form of separation	1	RTW2501	46881	1	RTW2501	46881
	Flange selection	1	RZ65	46225	1	RZ65	46225
	Aluminium flange plate, closed						
	Aluminium flange plate, with cable support sleeves	1	RZF12	46615	1	RZF12	46615
	Connection set selection	1	RZ190	46638	1	RZ190	46638
	Busbar connection set (N busbars on the same level)						
	Busbar connection set (N busbars on a different level)						
	Other accessories	1	RSR26L	66800	1	RSR26L	66800
Mechanical cabinet / cabinet connection		1	RZ148	46300	1	RZ148	46300
Set of side walls		1 *	RSW86P2	45822	1 *	RSW86P2	45822

TR12 – Main busbar system 1250 A, 4pole

Incoming / outgoing sections for breaker, coupler section, type ABB SACE E2

TR120501			TR120601			TR121505			TR121605		
Incoming / outgoing section ABB E2 fixed DBB 1250 A HSS 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N100% * ₃ PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)			Incoming / outgoing section ABB E2 withdrawable DBB 1250 A HSS 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N100% * ₃ PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)			Coupler section ABB E2 fixed DBB 1250 A HSS 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N100% * ₃ PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)			Coupler section ABB E2 withdrawable DBB 1250 A HSS 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N100% * ₃ PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)		
1963 x 614 x 625			1963 x 614 x 625			1963 x 614 x 625			1963 x 614 x 625		
146 kg			143 kg			159 kg			159 kg		
											
Prepared for breaker with rear terminals - HR			Prepared for breaker with rear terminals - HR			Prepared for breaker with rear terminals - HR			Prepared for breaker with rear terminals - HR		
Window of CT's 60 mm x 10 mm Max width of CT's 120 mm			Window of CT's 60 mm x 10 mm Max width of CT's 120 mm								
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR120501	65787	1	TR120601	65788	1	TR121505	65789	1	TR121605	65790
1	MSR2/600	65995	1	MSR2/600	65995	1	MSR2/600	65995	1	MSR2/600	65995
1	RTW2502	46882	1	RTW2503	46883	1	RTW2506	46886	1	RTW2507	46887
1	RZ65	46225	1	RZ65	46225						
1	RZF12	46615	1	RZF12	46615						
1	RZ190	46638	1	RZ190	46638	1	RZ190	46638	1	RZ190	46638
1	RSR26L	66800	1	RSR26L	66800	1	RSR26L	66800	1	RSR26L	66800
1	RZ148	46300	1	RZ148	46300	1	RZ148	46300	1	RZ148	46300
1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822

*2CPX0*****R9999

* Only one set required per assembly | *₃ N is included in the MBB / DBB arrangement

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

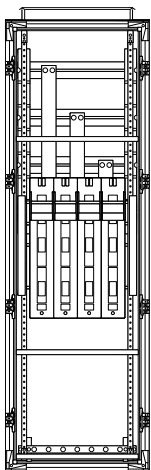
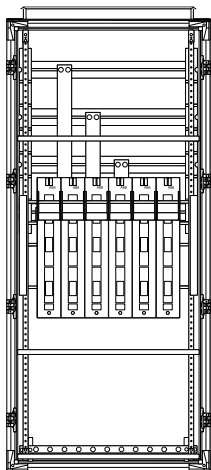
TR40 - 4000 A
3pole

Compartment

Accessories

TR12 – Main busbar system 1250 A, 4pole

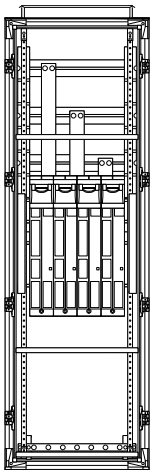
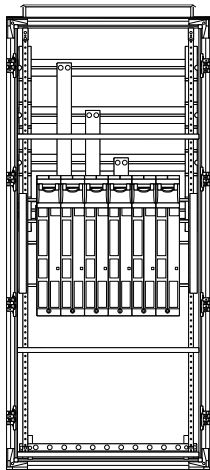
Outgoing sections for fuse switch disconnecter, type ABB SlimLine SR

TR12 - 1250 A, 4pole		TR124001		TR124101			
System TR12 Main busbar system 1250 A, 4pole Protection class 1 Degree of protection IP30 Dead front assembly Without devices		Outgoing section ABB SlimLine SR, 2-panels wide Devices vertical HSS 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)		Outgoing section ABB SlimLine SR, 3-panels wide Devices vertical HSS 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)			
Height x width x depth (mm)		1963 x 614 x 625 mm		1963 x 864 x 625 mm			
Weight of complete cabinet		145 kg		159 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Maximum usable width 400 mm		Maximum usable width 600 mm			
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR124001	65795	1	TR124101	65796
Accessories	Required for form 2b	1	MSR2/450 *2	65994	1	MSR3/450 *2	65996
	Set for internal form of separation	1	RTW2540021	47024	1	RTW2541021	47025
	Flange selection	1	RZ65	46225	1	RZ66	46226
	Aluminium flange plate, closed						
	Aluminium flange plate, with cable support sleeves	1	RZF12	46615	1	RZF13	46616
	Connection set selection	1	RZ190	46638	1	RZ190	46638
	Busbar connection set (N busbars on the same level)						
	Busbar connection set (N busbars on a different level)						
	Other accessories	1	RSR26L	66800	1	RSR36L	66801
Mechanical cabinet / cabinet connection		1	RZ148	46300	1	RZ148	46300
Set of side walls		1 *	RSW86P2	45822	1 *	RSW86P2	45822

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TR12 – Main busbar system 1250 A, 4pole

Outgoing sections for fuse switch disconnecter,
type ABB SlimLine XR

TR127401			TR127501					
Outgoing section ABB SlimLine XR, 2-panels wide Devices vertical HSS 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)			Outgoing section ABB SlimLine XR, 3-panels wide Devices vertical HSS 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)					
1963 x 614 x 625			1963 x 864 x 625					
138 kg			168 kg					
								
Maximum usable width 400 mm			Maximum usable width 600 mm					
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR127401	65582	1	TR127501	65583			
1	RTW2540021	47024	1	RTW2541021	47025			
1	RZ65	46225	1	RZ66	46226			
1	RZF12	46615	1	RZF13	46616			
1	RZ190	46638	1	RZ190	46638			
1	RSR26L	66800	1	RSR36L	66801			
1	RZ148	46300	1	RZ148	46300			
1 *	RSW86P2	45822	1 *	RSW86P2	45822			

*2CPX0*****R9999

* Only one set required per Assembly | ** The measurement & control mounting plate can easily be added, due to prepared perforations on the internal segregation | ** N is included in the MBB / DBB arrangement

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

TR40 - 4000 A
3pole

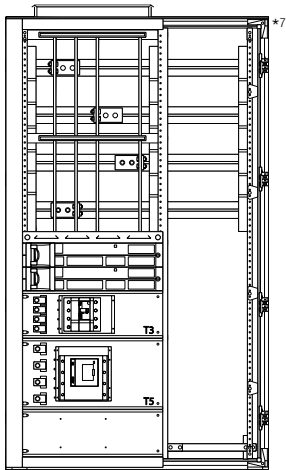
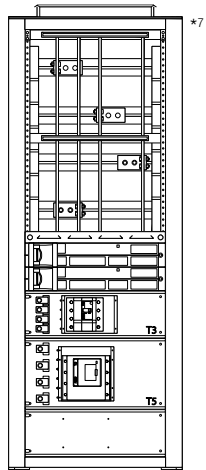
Compartments

Accessories

TR12 – Main busbar system 1250 A, 4pole

Outgoing sections for compartments with cable area

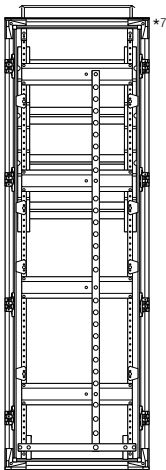
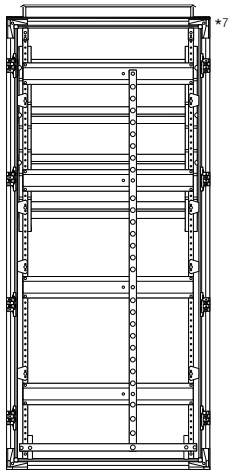
Outgoing sections for compartments without cable area

TR12 - 1250 A, 4pole		TR12520112		TR12530112			
System TR12 Main busbar system 1250 A, 4pole Protection class 1 Degree of protection IP30 Dead front assembly Without devices		Comp. section with cable area ABB SlimLine / compartments DBB 1250A HSS 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% * ₃ PE 50 %, 1 x Cu 30 x 10 / 1 x Cu 30 x 10 (Dimensions in mm)		Comp. section without cable area * ₄ ABB SlimLine / compartments DBB 1250A HSS 1250 A, 2 x Cu 30 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% * ₃ PE 50 %, 1 x Cu 30 x 10 (Dimensions in mm)			
Height x width x depth (mm)		1963 x 1114 x 625		1963 x 740 x 625			
Weight of complete cabinet		235 kg		185 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Maximum usable height 1800 mm		Maximum usable height 1800 mm			
		Always use Tmax breaker phase barriers* ₆		Always use Tmax breaker phase barriers* ₆			
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR12520112	65618	1	TR12530112	65620
Accessories	Required for form 2b						
	Mounting plate for measurement and control applications						
	Set for internal form of separation	1	RTW255202	66696	1	RTW255302	66697
	Flange selection						
		2	RZF4	46405			
		6	RZF1	66832			
		6	RZF6	46609			
	Connection set selection	1	RZ190	46638	1	RZ190	46638
	Other accessories	1	RSR46L	66802	1	RSR216L	66281
		1	RZ148	46300	1	RZ148	46300
		1 *	RSW86P2	45822	1 *	RSW86P2	45822

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TR12 – Main busbar system 1250 A, 4pole

Cable section

TR124801			TR124901					
Cable section 2-panels wide HSS 1250 A, 2 x Cu 30 x 10 N 100% * ₃ PE 50 %, 1 x Cu 30 x 10 / 1 x Cu 30 x 10 (Dimensions in mm) 1963 x 614 x 625 118 kg			Cable section 3-panels wide HSS 1250 A, 2 x Cu 30 x 10 N 100% * ₃ PE 50 %, 1 x Cu 30 x 10 / 1 x Cu 30 x 10 (Dimensions in mm) 1963 x 864 x 625 141 kg					
								
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR124801	65804	1	TR124901	65805			
1	RTW254802	66396	1	RTW254902	66397			
2	RZF4	46405	2	RZF5	46406			
6	RZF1	66832	8	RZF1	66832			
6	RZF6	46609	8	RZF6	46609			
1	RZ190	46638	1	RZ190	46638			
1	RSR26L	66800	1	RSR36L	66801			
1	RZ148	46300	1	RZ148	46300			
1 *	RSW86P2	45822	1 *	RSW86P2	45822			

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* Only one set required per assembly | *₃ N is included in the MBB / DBB arrangement | *₇ Order segregation wall separately as required

TR16 – Main busbar system 1600 A, 3pole

Overview

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Outgoing sections for compartments without cable area	3 - 9
Cable section	3 - 9



TR16 – Main busbar system 1600 A, 3pole

Technical specifications

Standards/Regulations

Compliance with standards	IEC 60439-1 (EN 60439-1) / IEC 61439-1, IEC 61439-2
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 class	I
Rated frequency	50 Hz
Rated insulation voltage (U_i)	1000 V
Rated operational voltage (U_o)	690 V AC

Main busbar system

MBB

Rated current (I_n)	1600 A
Rated peak withstand current (I_{pk})	165 kA
Rated short time withstand current (I_{sw})	75 kA

Distribution busbar system

DBB

Rated current (I_n)	1250 A	1600 A
Rated peak withstand current (I_{pk})	105 kA	165 kA
Rated short time withstand current (I_{sw})	50 kA	75 kA

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	galvanised sheet steel 1,5 mm

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

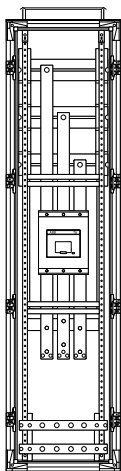
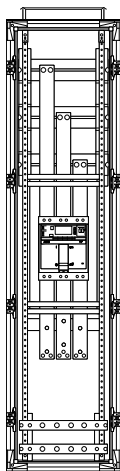
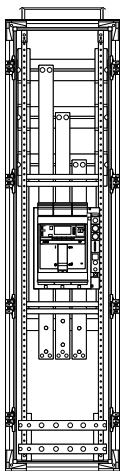
TR40 - 4000 A
3pole

Compartments

Accessories

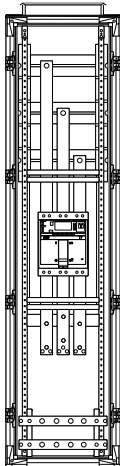
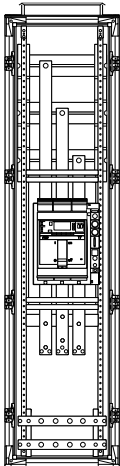
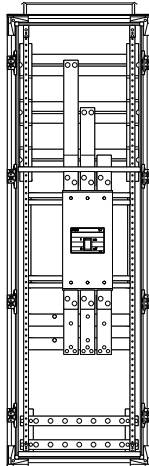
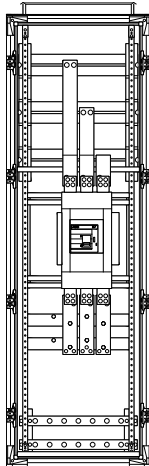
TR16 – Main busbar system 1600 A, 3pole

Incoming / outgoing sections for breaker,
type ABB SACE T6, T7, X1

TR16 - 1600 A, 3pole		TR16540010		TR16560012		TR16570012	
System TR16 Main busbar system 1600 A, 3pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Incoming / outgoing section ABB T6 fixed DBB 1000 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1000 A, 1 x Cu 50 x 10 N 100 %, 2 x Cu 40 x 10 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)		Incoming / outgoing section ABB T7 / X1 fixed DBB 1250 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 40 x 10 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)		Incoming / outgoing section ABB T7 / X1 withdrawable DBB 1250 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 40 x 10 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)	
Height x width x depth (mm)		1963 x 489 x 625		1963 x 489 x 625		1963 x 489 x 625	
Weight of complete cabinet		132 kg		136 kg		132 kg	
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Rear terminals - R		Prepared for breaker with rear terminals - HR		Prepared for breaker with rear terminals - HR	
Dimensions of CT's		Window of CT's 50 mm x 10 mm Max width of CT's 90 mm		Window of CT's 60 mm x 10 mm Max width of CT's 88 mm		Window of CT's 60 mm x 10 mm Max width of CT's 88 mm	
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR16540010	65870	1	TR16560012	65879
Accessories	Required for form 2b	1	MSR11/600	65993	1	MSR11/600	65993
	Set for internal form of separation	1	RTW255402	46943	1	RTW255602	46944
	Flange selection	1	RZ68	46946	1	RZ68	46946
	Aluminium flange plate, closed	1	RZF20	46948	1	RZF20	46948
	Aluminium flange plate, with cable support sleeves	1	RZF21	46949	1	RZF21	46949
	Connection set selection	1	RZ192	46640	1	RZ192	46640
	Busbar connection set (N busbars on the same level)	1	RZ193	46641	1	RZ193	46641
	Other accessories	1	RSR116L	46936	1	RSR116L	46936
	Mechanical cabinet / cabinet connection	1	RZ148	46300	1	RZ148	46300
	Set of side walls	1 *	RSW86P2	45822	1 *	RSW86P2	45822

TR16 – Main busbar system 1600 A, 3pole

Incoming / outgoing sections for breaker,
type ABB SACE T7, X1, S7

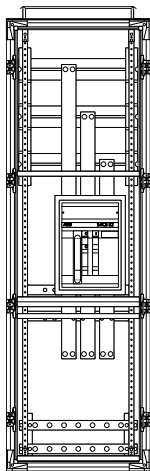
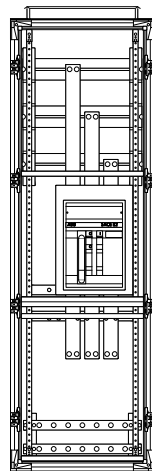
TR16560016			TR16570016			TR160100			TR160200		
Incoming / outgoing section ABB T7 / X1 fixed DBB 1600 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1600 A, 2 x Cu 50 x 10 N 100 %, 2 x Cu 40 x 10 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)			Incoming / outgoing section ABB T7 / X1 withdrawable DBB 1600 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1600 A, 2 x Cu 50 x 10 N 100 %, 2 x Cu 40 x 10 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)			Incoming / outgoing section ABB S7 fixed DBB 1250 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 40 x 10 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)			Incoming / outgoing section ABB S7 withdrawable DBB 1250 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 40 x 10 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)		
1963 x 489 x 625			1963 x 489 x 625			1963 x 614 x 625			1963 x 614 x 625		
152 kg			146 kg			158 kg			152 kg		
											
Prepared for breaker with rear terminals - HR			Prepared for breaker with rear terminals - HR			Front extended terminals - EF			Front extended terminals - EF		
Window of CT's 50 mm x 30 mm Max width of CT's 90 mm			Window of CT's 50 mm x 30 mm Max width of CT's 90 mm			Window of CT's 60 mm x 10 mm Max width of CT's 86 mm			Window of CT's 60 mm x 10 mm Max width of CT's 86 mm		
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR16560016	65881	1	TR16570016	65882	1	TR160100	65722	1	TR160200	65723
1	MSR11/600	65993	1	MSR11/600	65993	1	MSR2/450	65994	1	MSR2/450	65994
1	RTW255602	46944	1	RTW255702	46945	1	RTW2501	46881	1	RTW2501	46881
1	RZ68	46946	1	RZ68	46946	1	RZ65	46225	1	RZ65	46225
1	RZF20	46948	1	RZF20	46948						
1	RZF21	46949	1	RZF21	46949	1	RZF12	46615	1	RZF12	46615
1	RZ192	46640	1	RZ192	46640	1	RZ192	46640	1	RZ192	46640
1	RZ193	46641	1	RZ193	46641	1	RZ193	46641	1	RZ193	46641
1	RSR116L	46936	1	RSR116L	46936	1	RSR26L	66800	1	RSR26L	66800
1	RZ148	46300	1	RZ148	46300	1	RZ148	46300	1	RZ148	46300
1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822

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* Only one set required per assembly

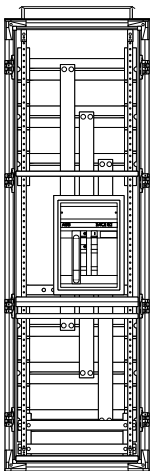
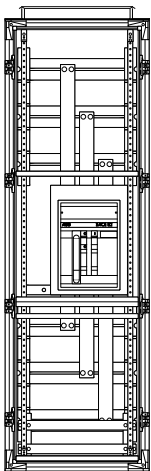
TR16 – Main busbar system 1600 A, 3pole

Incoming / outgoing sections for breaker,
type ABB SACE E2

TR16 - 1600 A, 3pole	TR160500		TR160600			
System TR16 Main busbar system 1600 A, 3pole Protection class I Degree of protection IP30 Dead front assembly Without devices	Incoming / outgoing section ABB E2 fixed DBB 1250 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 40 x 10 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)		Incoming / outgoing section ABB E2 withdrawable DBB 1250 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 40 x 10 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)			
Height x width x depth (mm)	1963 x 614 x 625		1963 x 614 x 625			
Weight of complete cabinet	146 kg		148 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall						
Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software						
Devices	Prepared for breaker with rear terminals - HR		Prepared for breaker with rear terminals - HR			
Dimensions of CT's	Window of CT's 60 mm x 10 mm Max width of CT's 120 mm		Window of CT's 60 mm x 10 mm Max width of CT's 120 mm			
	Per Cabinet	Type Ord. No.*	Per Cabinet	Type Ord. No.*	Per Cabinet	Type Ord. No.*
Complete assembled cabinet	1	TR160500 65724	1	TR160600 65725		
Mounting plate for measurement and control applications	1	MSR2/600 65995	1	MSR2/600 65995		
Set for internal form of separation	1	RTW2502 46882	1	RTW2503 46883		
Microcellular rubber sinusoidal flange	1	RZ65 46225	1	RZ65 46225		
Aluminium flange plate, closed						
Aluminium flange plate, with cable support sleeves	1	RZF12 46615	1	RZF12 46615		
Busbar connection set (N busbars on the same level)	1	RZ192 46640	1	RZ192 46640		
Busbar connection set (N busbars on a different level)	1	RZ193 46641	1	RZ193 46641		
Plinth with ventilation apertures	1	RSR26L 66800	1	RSR26L 66800		
Mechanical cabinet / cabinet connection	1	RZ148 46300	1	RZ148 46300		
Set of side walls	1 *	RSW86P2 45822	1 *	RSW86P2 45822		

TR16 – Main busbar system 1600 A, 3pole

Couple section, type ABB SACE E2

TR162504			TR162604					
Coupler section ABB E2 fixed DBB 1600 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1600 A, 2 x Cu 60 x 10 N 100 %, 2 x Cu 40 x 10 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)			Coupler section ABB E2 withdrawable DBB 1600 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1600 A, 2 x Cu 60 x 10 N 100 %, 2 x Cu 40 x 10 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)					
1963 x 614 x 625			1963 x 614 x 625					
181 kg			175 kg					
								
Prepared for breaker with rear terminals - HR			Prepared for breaker with rear terminals - HR					
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR162504	65726	1	TR162604	65727			
1	MSR2/600	65995	1	MSR2/600	65995			
1	RTW2506	46886	1	RTW2507	46887			
1	RZ192	46640	1	RZ192	46640			
1	RZ193	46641	1	RZ193	46641			
1	RSR26L	66800	1	RSR26L	66800			
1	RZ148	46300	1	RZ148	46300			
1 *	RSW86P2	45822	1 *	RSW86P2	45822			

*2CPX0*****R9999

* Only one set required per assembly

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

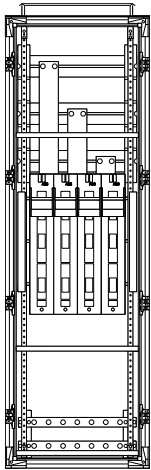
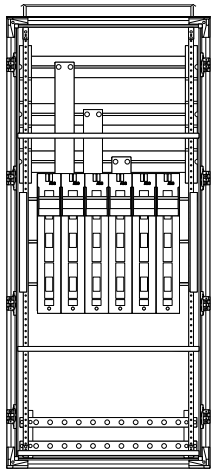
TR40 - 4000 A
3pole

Compartment

Accessories

TR16 – Main busbar system 1600 A, 3pole

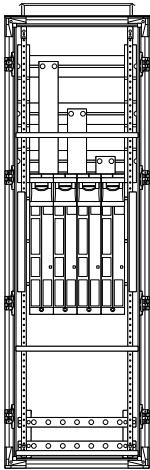
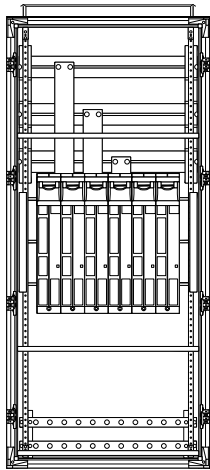
Outgoing sections for fuse switch disconnecter, type ABB SlimLine SR

TR16 - 1600 A, 3pole		TR164000		TR164100			
System TR16 Main busbar system 1600 A, 3pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Outgoing section ABB SlimLine SR, 2-panels wide Devices vertical MBB 1600 A, 2 x Cu 40 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 100 %, 2 x Cu 40 x 10 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)		Outgoing section ABB SlimLine SR, 3-panels wide Devices vertical MBB 1600 A, 2 x Cu 40 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 100 %, 2 x Cu 40 x 10 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)			
Height x width x depth (mm)		1963 x 614 x 625		1963 x 864 x 625			
Weight of complete cabinet		152 kg		167 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Maximum usable width 400 mm		Maximum usable width 600 mm			
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR164000	65732	1	TR164100	65733
Accessories	Required for form 2b	1	MSR2/450 *2	65994	1	MSR3/450 *2	65996
	Set for internal form of separation	1	RTW2540021	47024	1	RTW2541021	47025
	Microcellular rubber sinusoidal flange	1	RZ65	46225	1	RZ66	46226
	Aluminium flange plate, closed						
	Aluminium flange plate, with cable support sleeves	1	RZF12	46615	1	RZF13	46616
	Busbar connection set (N busbars on the same level)	1	RZ192	46640	1	RZ192	46640
	Busbar connection set (N busbars on a different level)	1	RZ193	46641	1	RZ193	46641
	Plinth with ventilation apertures	1	RSR26L	66800	1	RSR36L	66801
	Mechanical cabinet / cabinet connection	1	RZ148	46300	1	RZ148	46300
	Set of side walls	1 *	RSW86P2	45822	1 *	RSW86P2	45822

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TR16 – Main busbar system 1600 A, 3pole

Outgoing sections for fuse switch disconnecter,
type ABB SlimLine XR

TR167400			TR167500					
Outgoing section ABB SlimLine XR, 2-panels wide Devices vertical MBB 1600 A, 2 x Cu 40 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 100 %, 2 x Cu 40 x 10 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)			Outgoing section ABB SlimLine XR, 3-panels wide Devices vertical MBB 1600 A, 2 x Cu 40 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 100 %, 2 x Cu 40 x 10 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)					
1963 x 614 x 625			1963 x 864 x 625					
144 kg			177 kg					
								
Maximum usable width 400 mm			Maximum usable width 600 mm					
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR167400	65584	1	TR167500	65585			
1	MSR2/450 *2	65994	1	MSR3/450 *2	65996			
1	RTW2540021	47024	1	RTW2541021	47025			
1	RZ65	46225	1	RZ66	46226			
1	RZF12	46615	1	RZF13	46616			
1	RZ192	46640	1	RZ192	46640			
1	RZ193	46641	1	RZ193	46641			
1	RSR26L	66800	1	RSR36L	66801			
1	RZ148	46300	1	RZ148	46300			
1 *	RSW86P2	45822	1 *	RSW86P2	45822			

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* Only one set required per assembly | *2 The measurement & control mounting plate can easily be added, due to prepared perforations on the internal segregation

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

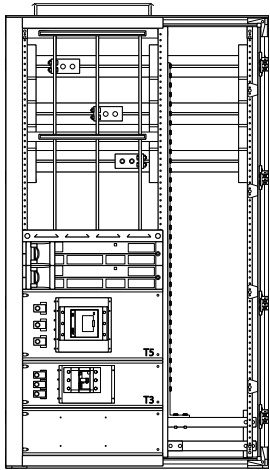
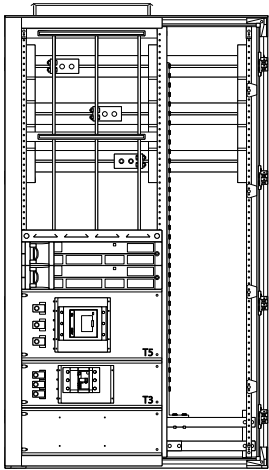
TR40 - 4000 A
3pole

Compartments

Accessories

TR16 – Main busbar system 1600 A, 3pole

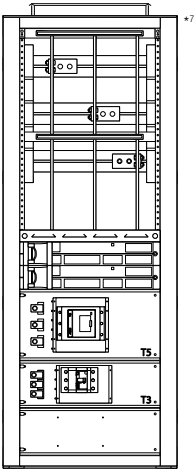
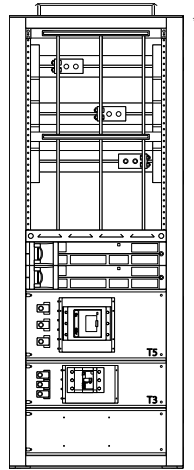
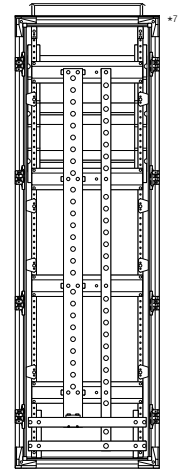
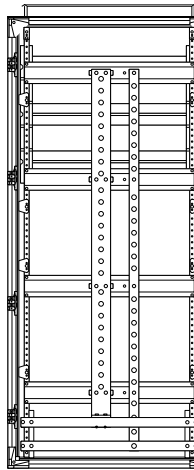
Outgoing sections for compartments with cable area

TR16 - 1600 A, 3pole		TR16520012		TR16520016			
System TR16 Main busbar system 1600 A, 3pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Comp. section with cable area ABB SlimLine / compartment DBB 1250A MBB 1600 A, 2 x Cu 40 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 40 x 10 / 1 x Cu 60 x 10 PE 50 %, 1 x Cu 40 x 10 / 1 x Cu 30 x 10 (Dimensions in mm)		Comp. section with cable area ABB SlimLine / compartment DBB 1600A MBB 1600 A, 2 x Cu 40 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 100 %, 2 x Cu 40 x 10 / 1 x Cu 80 x 10 PE 50 %, 1 x Cu 40 x 10 / 1 x Cu 40 x 10 (Dimensions in mm)			
Height x width x depth (mm)		1963 x 1114 x 625		1963 x 1114 x 625			
Weight of complete cabinet		241 kg		256 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Maximum usable height 1800 mm		Maximum usable height 1800 mm			
		Always use Tmax breaker phase barriers*6		Always use Tmax breaker phase barriers*6			
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR16520012	65621	1	TR16520016	65622
Accessories	Required for form 2b						
	Mounting plate for measurement and control applications						
	Set for internal form of separation	1	RTW255202	66696	1	RTW255202	66696
	Flange selection						
		2	RZF4	46405	2	RZF4	46405
		6	RZF1	66832	6	RZF1	66832
		6	RZF6	46609	6	RZF6	46609
	Connection set selection						
		1	RZ192	46640	1	RZ192	46640
		1	RZ193	46641	1	RZ193	46641
Other accessories	Plinth with ventilation apertures	1	RSR46L	66802	1	RSR46L	66802
	Mechanical cabinet / cabinet connection	1	RZ148	46300	1	RZ148	46300
	Set of side walls	1 *	RSW86P2	45822	1 *	RSW86P2	45822

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TR16 – Main busbar system 1600 A, 3pole

Outgoing sections for compartments without cable area,

TR16530012			TR16530016			TR164800			TR164900		
Comp. section without cable area ABB SlimLine / compartment DBB 1250A MBB 1600 A, 2 x Cu 40 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 40 x 10 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)			Comp. section without cable area ABB SlimLine / compartment DBB 1600A MBB 1600 A, 2 x Cu 40 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 100 %, 2 x Cu 40 x 10 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)			Cable section 2-panels wide MBB 1600 A, 2 x Cu 40 x 10 N 100 %, 2 x Cu 40 x 10 / 1 x Cu 80 x 10 PE 50 %, 1 x Cu 40 x 10 / 1 x Cu 40 x 10 (Dimensions in mm)			Cable section 3-panels wide MBB 1600 A, 2 x Cu 40 x 10 N 100 %, 2 x Cu 40 x 10 / 1 x Cu 80 x 10 PE 50 %, 1 x Cu 40 x 10 / 1 x Cu 40 x 10 (Dimensions in mm)		
1963 x 740 x 625			1963 x 740 x 625			1963 x 614 x 625			1963 x 864 x 625		
178 kg			186 kg			133 kg			158 kg		
											
Maximum usable height 1800 mm			Maximum usable height 1800 mm								
Always use Tmax breaker phase barriers* ⁶			Always use Tmax breaker phase barriers* ⁶								
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR16530012	65625	1	TR16530016	65626	1	TR164800	65741	1	TR164900	65742
1	RTW255302	66697	1	RTW255302	66697	1	RTW254802	66396	1	RTW254902	66397
						2	RZF4	46405	2	RZF5	46406
						6	RZF1	66832	8	RZF1	66832
						6	RZF6	46609	8	RZF6	46609
1	RZ192	46640	1	RZ192	46640	1	RZ192	46640	1	RZ192	46640
1	RZ193	46641	1	RZ193	46641	1	RZ193	46641	1	RZ193	46641
1	RSR216L	66281	1	RSR216L	66281	1	RSR26L	66800	1	RSR36L	66801
1	RZ148	46300	1	RZ148	46300	1	RZ148	46300	1	RZ148	46300
1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822

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* Only one set required per assembly | *⁶ 200 mm Phase barriers must be ordered separately together with the breaker | *⁷ Order segregation wall separately as required

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

TR40 - 4000 A
3pole

Compartments

Accessories

TR16 – Main busbar system 1600 A, 4pole

Overview

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TR16 – Main busbar system 1600 A, 4pole

Technical specifications

Standards/Regulations

Compliance with standards	IEC 60439-1 (EN 60439-1) / IEC 61439-1, IEC 61439-2
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 class	I
Rated frequency	50 Hz
Rated insulation voltage (U)	1000 V
Rated operational voltage (U_o)	690 V AC

Main busbar system

MBB

Rated current (I_n)	1600 A
Rated peak withstand current (I_{pk})	165 kA
Rated short time withstand current (I_{sw})	75 kA

Distribution busbar system

DBB

Rated current (I_n)	1250 A	1600 A
Rated peak withstand current (I_{pk})	105 kA	165 kA
Rated short time withstand current (I_{sw})	50 kA	75 kA

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 Cabinet	RAL 7035
Powder coating plinth	RAL 7005
Bottom plate	galvanised sheet steel 1,5 mm

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

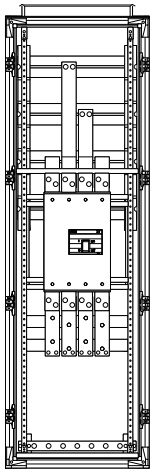
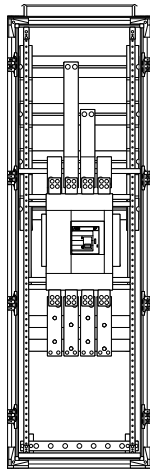
TR40 - 4000 A
3pole

Compartments

Accessories

TR16 – Main busbar system 1600 A, 4pole

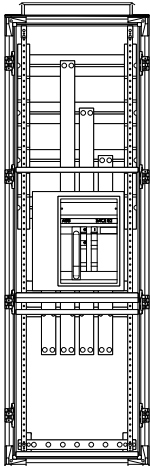
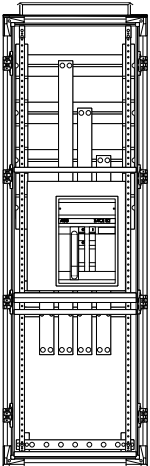
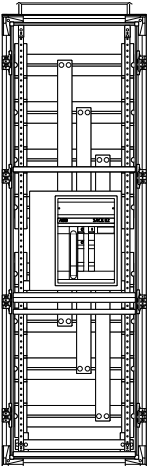
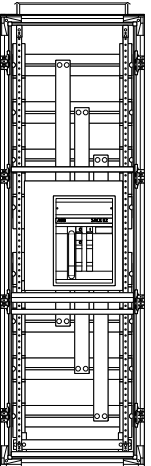
Incoming / outgoing sections for breaker,
type ABB SACE S7

TR16 - 1600 A, 4pole		TR160101		TR160201			
System TR16 Main busbar system 1600 A, 4pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Incoming / outgoing section ABB S7 fixed DBB 1250 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)		Incoming / outgoing section ABB S7 withdrawable DBB 1250 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)			
Height x width x depth (mm)		1963 x 614 x 625		1963 x 614 x 625			
Weight of complete cabinet		167 kg		157 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Front extended terminals - EF		Front extended terminals - EF			
Dimensions of CT's		Window of CT's 60 mm x 10 mm Max width of CT's 86 mm		Window of CT's 60 mm x 10 mm Max width of CT's 86 mm			
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR160101	65743	1	TR160201	65744
Accessories	Required for form 2b	1	MSR2/450	65994	1	MSR2/450	65994
	Set for internal form of separation	1	RTW2501	46881	1	RTW2501	46881
	Microcellular rubber sinusoidal flange	1	RZ65	46225	1	RZ65	46225
	Aluminium flange plate, closed						
	Aluminium flange plate, with cable support sleeves	1	RZF12	46615	1	RZF12	46615
	Busbar connection set (N busbars on the same level)	1	RZ192	46640	1	RZ192	46640
	Busbar connection set (N busbars on a different level)						
	Plinth with ventilation apertures	1	RSR26L	66800	1	RSR26L	66800
	Mechanical cabinet / cabinet connection	1	RZ148	46300	1	RZ148	46300
	Set of side walls	1 *	RSW86P2	45822	1 *	RSW86P2	45822

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TR16 – Main busbar system 1600 A, 4pole

Incoming / outgoing sections for breaker/
coupler sections, type ABB SACE E2

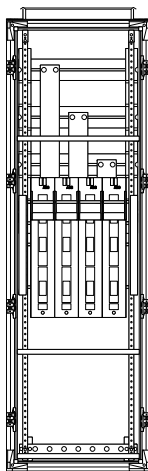
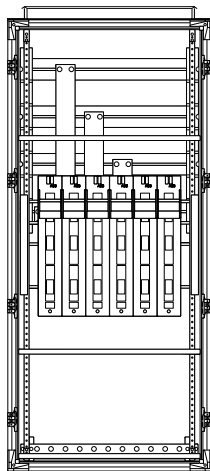
TR160501			TR160601			TR162505			TR162605		
Incoming / outgoing section ABB E2 fixed DBB 1250 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)			Incoming / outgoing section ABB E2 withdrawable DBB 1250 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)			Coupler section ABB E2 fixed DBB 1600 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1600 A, 2 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)			Coupler section ABB E2 withdrawable DBB 1600 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1600 A, 2 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)		
1963 x 614 x 625			1963 x 614 x 625			1963 x 614 x 625			1963 x 614 x 625		
152 kg			148 kg			213 kg			183 kg		
											
Prepared for breaker with rear terminals - HR			Prepared for breaker with rear terminals - HR			Front extended terminals - EF			Front extended terminals - EF		
Window of CT's 60 mm x 10 mm Max width of CT's 120 mm			Window of CT's 60 mm x 10 mm Max width of CT's 120 mm								
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR160501	65745	1	TR160601	65746	1	TR162505	65747	1	TR162605	65748
1	MSR2/600	65995	1	MSR2/600	65995	1	MSR2/600	65995	1	MSR2/600	65995
1	RTW2502	46882	1	RTW2503	46883	1	RTW2506	46886	1	RTW2507	46887
1	RZ65	46225	1	RZ65	46225						
1	RZF12	46615	1	RZF12	46615						
1	RZ192	46640	1	RZ192	46640	1	RZ192	46640	1	RZ192	46640
1	RSR26L	66800	1	RSR26L	66800	1	RSR26L	66800	1	RSR26L	66800
1	RZ148	46300	1	RZ148	46300	1	RZ148	46300	1	RZ148	46300
1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822

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* Only one set required per assembly | *3 N is included in the MBB / DBB arrangement

TR16 – Main busbar system 1600 A, 4pole

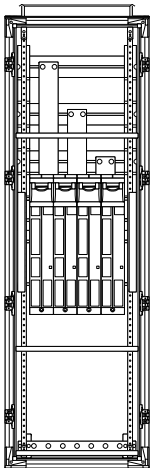
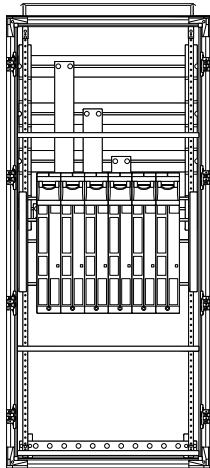
Outgoing sections for fuse switch disconnecter, type ABB SlimLine SR

TR16 - 1600 A, 4pole		TR164001		TR164101			
System TR16 Main busbar system 1600 A, 4pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Outgoing section ABB SlimLine SR, 2-panels wide Devices vertical MBB 1600 A, 2 x Cu 40 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 100% *3 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)		Outgoing section ABB SlimLine SR, 3-panels wide Devices vertical MBB 1600 A, 2 x Cu 40 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 100% *3 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)			
Height x width x depth (mm)		1963 x 614 x 625		1963 x 864 x 625			
Weight of complete cabinet		156 kg		172 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall							
Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Maximum usable width 400 mm		Maximum usable width 600 mm			
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR164001	65753	1	TR164101	65754
Mounting plate for measurement and control applications		1	MSR2/450 *2	65994	1	MSR3/450 *2	65996
Set for internal form of separation		1	RTW2540021	47024	1	RTW2541021	47025
Microcellular rubber sinusoidal flange		1	RZ65	46225	1	RZ66	46226
Aluminium flange plate, closed							
Aluminium flange plate, with cable support sleeves		1	RZF12	46615	1	RZF13	46616
Busbar connection set (N busbars on the same level)		1	RZ192	46640	1	RZ192	46640
Busbar connection set (N busbars on a different level)							
Plinth with ventilation apertures		1	RSR26L	66800	1	RSR36L	66801
Mechanical cabinet / cabinet connection		1	RZ148	46300	1	RZ148	46300
Set of side walls		1 *	RSW86P2	45822	1 *	RSW86P2	45822

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TR16 – Main busbar system 1600 A, 4pole

Outgoing sections for fuse switch disconnecter, type ABB SlimLine XR

TR167401			TR167501					
Outgoing section ABB SlimLine XR, 2-panels wide Devices vertical MBB 1600 A, 2 x Cu 40 x 10 DBB 1600 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)			Outgoing section ABB SlimLine XR, 3-panels wide Devices vertical MBB 1600 A, 2 x Cu 40 x 10 DBB 1600 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)					
1963 x 614 x 625			1963 x 864 x 625					
149 kg			183 kg					
								
Maximum usable width 400 mm			Maximum usable width 600 mm					
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR167401	65586	1	TR167501	65587			
1	MSR2/450 *2	65994	1	MSR3/450 *2	65996			
1	RTW2540021	47024	1	RTW2541021	47025			
1	RZ65	46225	1	RZ66	46226			
1	RZF12	46615	1	RZF13	46616			
1	RZ192	46640	1	RZ192	46640			
1	RSR26L	66800	1	RSR36L	66801			
1	RZ148	46300	1	RZ148	46300			
1 *	RSW86P2	45822	1 *	RSW86P2	45822			

*2CPX0*****R9999

* Only one set required per assembly | *2 The measurement & control mounting plate can easily be added, due to prepared perforations on the internal segregation | *3 N is included in the MBB / DBB arrangement

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

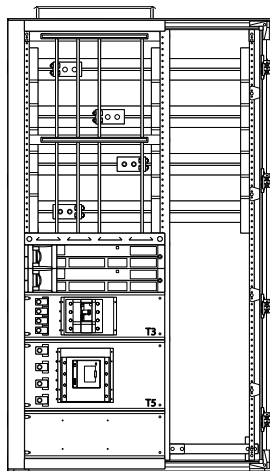
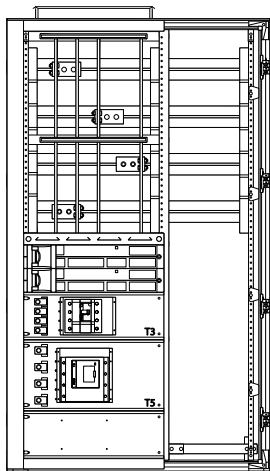
TR40 - 4000 A
3pole

Compartments

Accessories

TR16 – Main busbar system 1600 A, 4pole

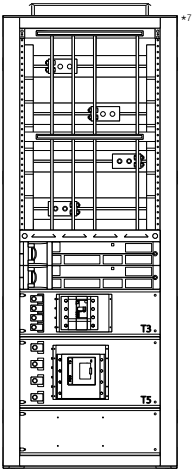
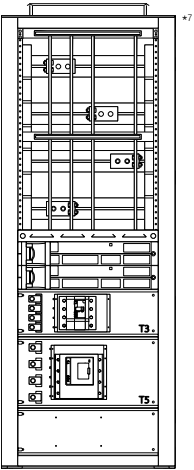
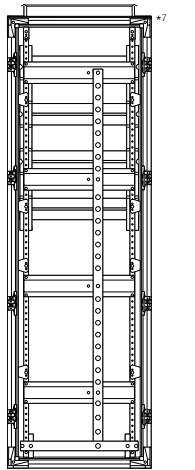
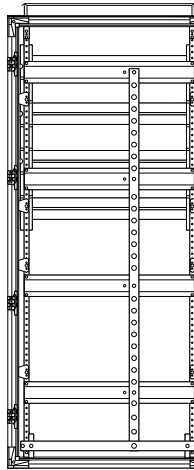
Outgoing sections for compartments with cable area

TR16 - 1600 A, 4pole	TR16520112		TR16520116			
System TR16 Main busbar system 1600 A, 4pole Protection class I Degree of protection IP30 Dead front assembly Without devices	Comp. section with cable area ABB SlimLine / compartment DBB 1250 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 40 x 10 / 1 x Cu 30 x 10 (Dimensions in mm)		Comp. section with cable area ABB SlimLine / compartment DBB 1600 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 100 % *3 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)			
Height x width x depth (mm)	1963 x 1114 x 625		1963 x 1114 x 625			
Weight of complete cabinet	244 kg		258 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall						
Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software						
Devices	Maximum usable height 1800 mm		Maximum usable height 1800 mm			
	Always use Tmax breaker phase barriers*6		Always use Tmax breaker phase barriers*6			
	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet	1	TR16520112	65623	1	TR16520116	65624
Mounting plate for measurement and control applications						
Set for internal form of separation	1	RTW255202	66696	1	RTW255202	66696
Aluminium multi flange plate, closed	2	RZF4	46405	2	RZF4	46405
Aluminium flange plate, closed	6	RZF1	66832	6	RZF1	66832
Aluminium flange plate, with cable support sleeves	6	RZF6	46609	6	RZF6	46609
Busbar connection set (N busbars on the same level)	1	RZ192	46640	1	RZ192	46640
Busbar connection set (N busbars on a different level)						
Plinth with ventilation apertures	1	RSR46L	66802	1	RSR46L	66802
Mechanical cabinet / cabinet connection	1	RZ148	46300	1	RZ148	46300
Set of side walls	1 *	RSW86P2	45822	1 *	RSW86P2	45822

*2CPX0*****R9999

TR16 – Main busbar system 1600 A, 4pole

Outgoing sections for compartments without cable area, cable section

TR16530112			TR16530116			TR164801			TR164901		
Comp. section without cable area *4 ABB SlimLine / compartment DBB 1250 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)			Comp. section without cable area *4 ABB SlimLine / compartment DBB 1600 A MBB 1600 A, 2 x Cu 40 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 100% *3 PE 50 %, 1 x Cu 40 x 10 (Dimensions in mm)			Cable section 2-panels wide MBB 1600 A, 2 x Cu 40 x 10 N 100% *3 PE 50 %, 1 x Cu 40 x 10 / 1 x Cu 40 x 10 (Dimensions in mm)			Cable section 3-panels wide MBB 1600 A, 2 x Cu 40 x 10 N 100% *3 PE 50 %, 1 x Cu 40 x 10 / 1 x Cu 40 x 10 (Dimensions in mm)		
1963 x 740 x 625			1963 x 740 x 625			1963 x 614 x 625			1963 x 864 x 625		
190 kg			202 kg			125 kg			150 kg		
											
Maximum usable height 1800 mm			Maximum usable height 1800 mm								
Always use Tmax breaker phase barriers*6			Always use Tmax breaker phase barriers*6								
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR16530112	65627	1	TR16530116	65628	1	TR164801	65762	1	TR164901	65763
1	RTW255302	66697	1	RTW255302	66697	1	RTW254802	66396	1	RTW254902	66397
						2	RZF4	46405	2	RZF5	46406
						6	RZF1	66832	8	RZF1	66832
						6	RZF6	46609	8	RZF6	46609
1	RZ192	46640	1	RZ192	46640	1	RZ192	46640	1	RZ192	46640
1	RSR216L	66281	1	RSR216L	66281	1	RSR26L	66800	1	RSR36L	66801
1	RZ148	46300	1	RZ148	46300	1	RZ148	46300	1	RZ148	46300
1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822

*2CPX0*****R9999

* Only one set required per assembly | ** N is included in the MBB / DBB arrangement | *4 When using a cable section on the left, the DBB system has to be rearranged | *6 200 mm Phase barriers must be ordered separately together with the breaker | ** Order segregation wall separately as required

TR20 – Main busbar system 2000 A, 3pole

Overview

Page

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Incoming / outgoing sections for breaker, type ABB SACE T7, X1, S7	5 - 3
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Outgoing sections for compartments with cable area.....	5 - 8
Outgoing sections for compartments without cable area	5 - 9
Cable section	5 - 10



TR20 – Main busbar system 2000 A, 3pole

Technical specifications

Standards/Regulations

Compliance with standards	IEC 60439-1 (EN 60439-1) / IEC 61439-1, IEC 61439-2
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 class	I
Rated frequency	50 Hz
Rated insulation voltage (U_i)	1000 V
Rated operational voltage (U_o)	690 V AC

Main busbar system

MBB

Rated current (I_n)	2000 A
Rated peak withstand current (I_{pk})	165 kA
Rated short time withstand current (I_{RW})	75 kA

Distribution busbar system

DBB

Rated current (I_n)	1250 A	1600 A	2000 A
Rated peak withstand current (I_{pk})	105 kA	165 kA	165 kA
Rated short time withstand current (I_{RW})	50 kA	75 kA	75 kA

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 Cabinet	RAL 7035
Powder coating plinth	RAL 7005
Bottom plate	galvanised sheet steel 1,5 mm

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

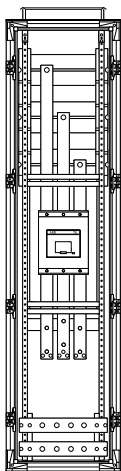
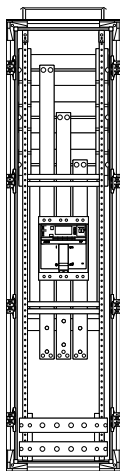
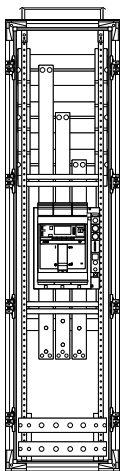
TR40 - 4000 A
3pole

Compartments

Accessories

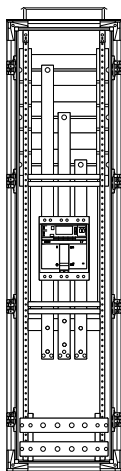
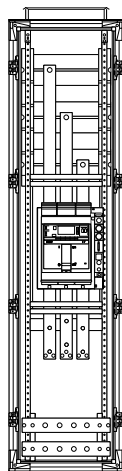
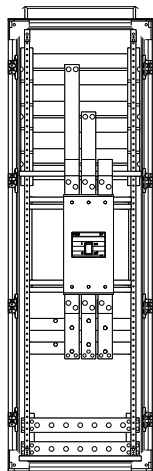
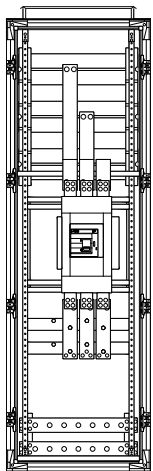
TR20 – Main busbar system 2000 A, 3pole

Incoming / outgoing sections for breaker,
type ABB SACE T6, T7, X1

TR20 - 2000 A, 3pole		TR20540010		TR20560012		TR20570012	
System TR20 Main busbar system 2000 A, 3pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Incoming / outgoing section ABB T6 fixed DBB 1000 A MBB 2000 A, 2 x Cu 60 x 10 DBB 1000 A, 1 x Cu 50 x 10 N 100 %, 2 x Cu 60 x 10 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)		Incoming / outgoing section ABB T7 / X1 fixed DBB 1250 A MBB 2000 A, 2 x Cu 60 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 60 x 10 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)		Incoming / outgoing section ABB T7 / X1 withdrawable DBB 1250 A MBB 2000 A, 2 x Cu 60 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 60 x 10 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)	
Height x width x depth (mm)		1963 x 489 x 625		1963 x 489 x 625		1963 x 489 x 625	
Weight of complete cabinet		139 kg		143 kg		139 kg	
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Rear terminals - R		Prepared for breaker with rear terminals - HR		Prepared for breaker with rear terminals - HR	
Dimensions of CT's		Window of CT's 50 mm x 10 mm Max width of CT's 90 mm		Window of CT's 60 mm x 10 mm Max width of CT's 88 mm		Window of CT's 60 mm x 10 mm Max width of CT's 88 mm	
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR20540010	65871	1	TR20560012	65883
Accessories	Required for form 2b	1	MSR11/600	65993	1	MSR11/600	65993
	Set for internal form of separation	1	RTW255402	46943	1	RTW255602	46944
	Microcellular rubber sinusoidal flange	1	RZ68	46946	1	RZ68	46946
	Aluminium flange plate, closed	1	RZF20	46948	1	RZF20	46948
	Aluminium flange plate, with cable support sleeves	1	RZF21	46949	1	RZF21	46949
	Busbar connection set (N busbars on the same level)	1	RZ194	46642	1	RZ194	46642
	Busbar connection set (N busbars on a different level)	1	RZ195	46643	1	RZ195	46643
	Plinth with ventilation apertures	1	RSR116L	46936	1	RSR116L	46936
	Mechanical cabinet / cabinet connection	1	RZ148	46300	1	RZ148	46300
Set of side walls		1 *	RSW86P2	45822	1 *	RSW86P2	45822

TR20 – Main busbar system 2000 A, 3pole

Incoming / outgoing sections for breaker,
type ABB SACE T7, X1, S7

TR20560016			TR20570016			TR200100			TR200200		
Incoming / outgoing section ABB T7 / X1 fixed DBB 1600 A MBB 2000 A, 2 x Cu 60 x 10 DBB 1600 A, 2 x Cu 50 x 10 N 100 %, 2 x Cu 60 x 10 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)			Incoming / outgoing section ABB T7 / X1 withdrawable DBB 1600 A MBB 2000 A, 2 x Cu 60 x 10 DBB 1600 A, 2 x Cu 50 x 10 N 100 %, 2 x Cu 60 x 10 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)			Incoming / outgoing section ABB S7 fixed DBB 1250 A MBB 2000 A, 2 x Cu 60 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 60 x 10 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)			Incoming / outgoing section ABB S7 withdrawable DBB 1250 A MBB 2000 A, 2 x Cu 60 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 60 x 10 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)		
1963 x 489 x 625			1963 x 489 x 625			1963 x 614 x 625			1963 x 614 x 625		
159 kg			153 kg			171 kg			163 kg		
											
Prepared for breaker with rear terminals - HR			Prepared for breaker with rear terminals - HR			Front extended terminals - EF			Front extended terminals - EF		
Window of CT's 50 mm x 30 mm Max width of CT's 90 mm			Window of CT's 50 mm x 30 mm Max width of CT's 90 mm			Window of CT's 60 mm x 10 mm Max width of CT's 86 mm			Window of CT's 60 mm x 10 mm Max width of CT's 86 mm		
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR20560016	65885	1	TR20570016	65886	1	TR200100	65680	1	TR200200	65681
1	MSR11/600	65993	1	MSR11/600	65993	1	MSR2/450	65994	1	MSR2/450	65994
1	RTW255602	46944	1	RTW255702	46945	1	RTW2501	46881	1	RTW2501	46881
1	RZ68	46946	1	RZ68	46946	1	RZ65	46225	1	RZ65	46225
1	RZF20	46948	1	RZF20	46948						
1	RZF21	46949	1	RZF21	46949	1	RZF12	46615	1	RZF12	46615
1	RZ194	46642	1	RZ194	46642	1	RZ194	46642	1	RZ194	46642
1	RZ195	46643	1	RZ195	46643	1	RZ195	46643	1	RZ195	46643
1	RSR116L	46936	1	RSR116L	46936	1	RSR26L	66800	1	RSR26L	66800
1	RZ148	46300	1	RZ148	46300	1	RZ148	46300	1	RZ148	46300
1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822

*2CPX0*****R9999

* Only one set required per assembly

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

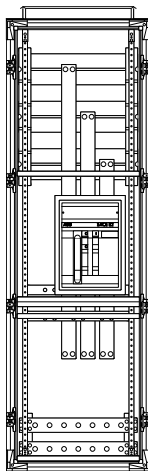
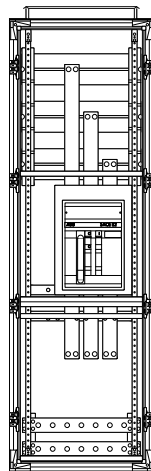
TR40 - 4000 A
3pole

Compartments

Accessories

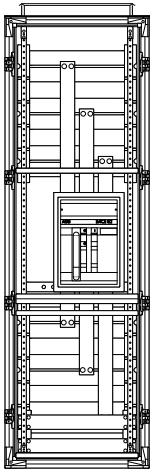
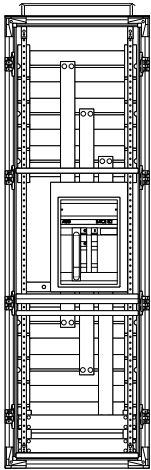
TR20 – Main busbar system 2000 A, 3pole

Incoming / outgoing sections for breaker, type ABB SACE E2

TR20 - 2000 A, 3pole	TR200500		TR200600			
System TR20 Main busbar system 2000 A, 3pole Protection class I Degree of protection IP30 Dead front assembly Without devices	Incoming / outgoing section ABB E2 fixed DBB 1250 A MBB 2000 A, 2 x Cu 60 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 60 x 10 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)		Incoming / outgoing section ABB E2 withdrawable DBB 1250 A MBB 2000 A, 2 x Cu 60 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 60 x 10 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)			
Height x width x depth (mm)	1963 x 614 x 625		1963 x 614 x 625			
Weight of complete cabinet	158 kg		156 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall						
Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software						
Devices	Prepared for breaker with rear terminals - HR		Prepared for breaker with rear terminals - HR			
Dimensions of CT's	Window of CT's 60 mm x 10 mm Max width of CT's 120 mm		Window of CT's 60 mm x 10 mm Max width of CT's 120 mm			
	Per Cabinet	Type Ord. No.*	Per Cabinet	Type Ord. No.*	Per Cabinet	Type Ord. No.*
Complete assembled cabinet	1	TR200500 65682	1	TR200600 65683		
Mounting plate for measurement and control applications	1	MSR2/600 65995	1	MSR2/600 65995		
Set for internal form of separation	1	RTW2502 46882	1	RTW2503 46883		
Microcellular rubber sinusoidal flange	1	RZ65 46225	1	RZ65 46225		
Aluminium flange plate, closed						
Aluminium flange plate, with cable support sleeves	1	RZF12 46615	1	RZF12 46615		
Busbar connection set (N busbars on the same level)	1	RZ194 46642	1	RZ194 46642		
Busbar connection set (N busbars on a different level)	1	RZ195 46643	1	RZ195 46643		
Plinth with ventilation apertures	1	RSR26L 66800	1	RSR26L 66800		
Mechanical cabinet / cabinet connection	1	RZ148 46300	1	RZ148 46300		
Set of side walls	1 *	RSW86P2 45822	1 *	RSW86P2 45822		

TR20 – Main busbar system 2000 A, 3pole

Coupler sections, type ABB SACE E2

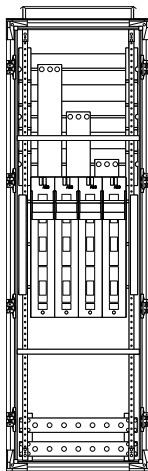
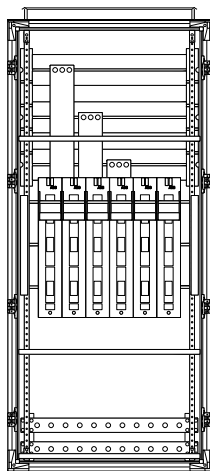
TR202704			TR202804					
Coupler section ABB E2 fixed DBB 2000 A MBB 2000 A, 2 x Cu 60 x 10 DBB 2000 A, 2 x Cu 60 x 10 N 100 %, 2 x Cu 60 x 10 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)			Coupler section ABB E2 withdrawable DBB 2000 A MBB 2000 A, 2 x Cu 60 x 10 DBB 2000 A, 2 x Cu 60 x 10 N 100 %, 2 x Cu 60 x 10 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)					
1963 x 614 x 625			1963 x 614 x 625					
196 kg			189 kg					
								
Prepared for breaker with rear terminals - HR			Prepared for breaker with rear terminals - HR					
Per Cabinet	Type	Ord. No. +	Per Cabinet	Type	Ord. No. +	Per Cabinet	Type	Ord. No. +
1	TR202704	65684	1	TR202804	65685			
1	MSR2/600	65995	1	MSR2/600	65995			
1	RTW2506	46886	1	RTW2507	46887			
1	RZ194	46642	1	RZ194	46642			
1	RZ195	46643	1	RZ195	46643			
1	RSR26L	66800	1	RSR26L	66800			
1	RZ148	46300	1	RZ148	46300			
1 *	RSW86P2	45822	1 *	RSW86P2	45822			

+2CPX0*****R9999

* Only one set required per assembly

TR20 – Main busbar system 2000 A, 3pole

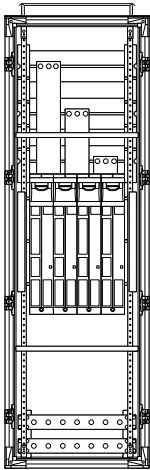
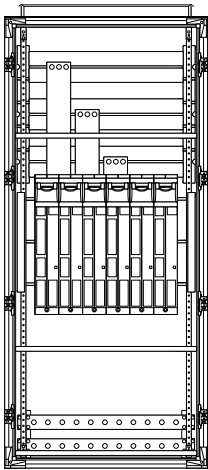
Outgoing sections for fuse switch disconnecter, type ABB SlimLine SR

TR20 - 2000 A, 3pole		TR204000		TR204100			
System TR20 Main busbar system 2000 A, 3pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Outgoing section ABB SlimLine SR, 2-panels wide Devices vertical MBB 2000 A, 2 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100 %, 2 x Cu 60 x 10 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)		Outgoing section ABB SlimLine SR, 3-panels wide Devices vertical MBB 2000 A, 2 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100 %, 2 x Cu 60 x 10 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)			
Height x width x depth (mm)		1963 x 614 x 625		1963 x 864 x 625			
Weight of complete cabinet		169 kg		197 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall							
Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Maximum usable width 400 mm		Maximum usable width 600 mm			
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR204000	65690	1	TR204100	65691
Mounting plate for measurement and control applications		1	MSR2/450 *2	65994	1	MSR3/450 *2	65996
Set for internal form of separation		1	RTW2540021	47024	1	RTW2541021	47025
Microcellular rubber sinusoidal flange		1	RZ65	46225	1	RZ66	46226
Aluminium flange plate, closed							
Aluminium flange plate, with cable support sleeves		1	RZF12	46615	1	RZF13	46616
Busbar connection set (N busbars on the same level)		1	RZ194	46642	1	RZ194	46642
Busbar connection set (N busbars on a different level)		1	RZ195	46643	1	RZ195	46643
Plinth with ventilation apertures		1	RSR26L	66800	1	RSR36L	66801
Mechanical cabinet / cabinet connection		1	RZ148	46300	1	RZ148	46300
Set of side walls		1 *	RSW86P2	45822	1 *	RSW86P2	45822

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TR20 – Main busbar system 2000 A, 3pole

Outgoing sections for fuse switch disconnecter,
type ABB SlimLine XR

TR207400			TR207500					
Outgoing section ABB SlimLine XR, 2-panels wide Devices vertical MBB 2000 A, 2 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100 %, 2 x Cu 60 x 10 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)			Outgoing section ABB SlimLine XR, 3-panels wide Devices vertical MBB 2000 A, 2 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100 %, 2 x Cu 60 x 10 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)					
1963 x 614 x 625			1963 x 864 x 625					
162 kg			201 kg					
								
Maximum usable width 400 mm			Maximum usable width 600 mm					
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR207400	65588	1	TR207500	65589			
1	MSR2/450 *2	65994	1	MSR3/450 *2	65996			
1	RTW2540021	47024	1	RTW2541021	47025			
1	RZ65	46225	1	RZ66	46226			
1	RZF12	46615	1	RZF13	46616			
1	RZ194	46642	1	RZ194	46642			
1	RZ195	46643	1	RZ195	46643			
1	RSR26L	66800	1	RSR36L	66801			
1	RZ148	46300	1	RZ148	46300			
1 *	RSW86P2	45822	1 *	RSW86P2	45822			

*2CPX0*****R9999

* Only one set required per assembly | *2 The measurement & control mounting plate can easily be added, due to prepared perforations on the internal segregation

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

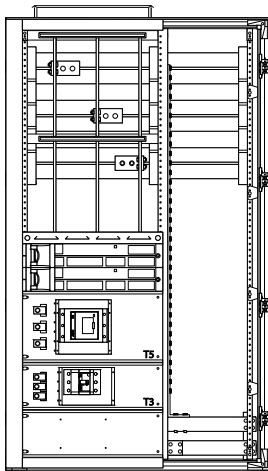
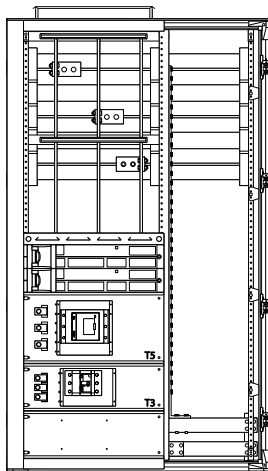
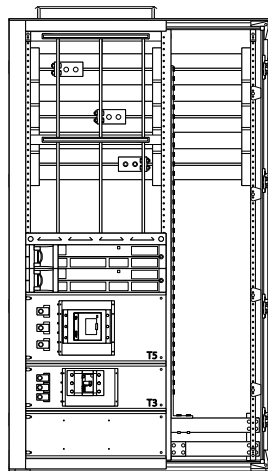
TR40 - 4000 A
3pole

Compartments

Accessories

TR20 – Main busbar system 2000 A, 3pole

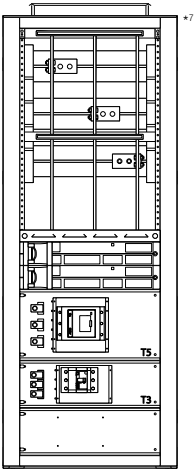
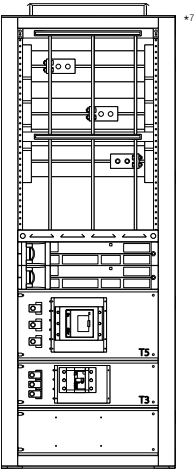
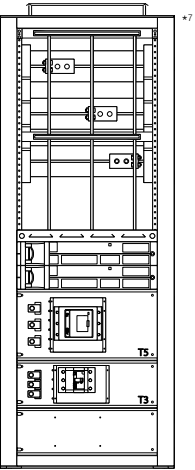
Outgoing sections for compartments with cable area

TR20 - 2000 A, 3pole		TR20520012		TR20520016		TR20520020	
System TR20 Main busbar system 2000 A, 3pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Comp. section with cable area ABB SlimLine / compartment DBB 1250A MBB 2000 A, 2 x Cu 60 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 60 x 10 / 1 x Cu 60 x 10 PE 50 %, 1 x Cu 60 x 10 / 1 x Cu 30 x 10 (Dimensions in mm)		Comp. section with cable area ABB SlimLine / compartment DBB 1600A MBB 2000 A, 2 x Cu 60 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 100 %, 2 x Cu 60 x 10 / 1 x Cu 80 x 10 PE 50 %, 1 x Cu 60 x 10 / 1 x Cu 40 x 10 (Dimensions in mm)		Comp. section with cable area ABB SlimLine / compartment DBB 2000A MBB 2000 A, 2 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100 %, 2 x Cu 60 x 10 / 1 x Cu 100 x 10 PE 50 %, 1 x Cu 60 x 10 / 1 x Cu 50 x 10 (Dimensions in mm)	
Height x width x depth (mm)		1963 x 1114 x 625		1963 x 1114 x 625		1963 x 1114 x 625	
Weight of complete cabinet		259 kg		273 kg		288 kg	
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Maximum usable height 1800 mm		Maximum usable height 1800 mm		Maximum usable height 1800 mm	
		Always use Tmax breaker phase barriers*6		Always use Tmax breaker phase barriers*6		Always use Tmax breaker phase barriers*6	
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR20520012	65629	1	TR20520016	65630
Accessories	Required for form 2b						
	Mounting plate for measurement and control applications						
	Set for internal form of separation	1	RTW255202	66696	1	RTW255202	66696
	Flange selection	2	RZF4	46405	2	RZF4	46405
		6	RZF1	66832	6	RZF1	66832
		6	RZF6	46609	6	RZF6	46609
	Connection set selection	1	RZ194	46642	1	RZ194	46642
		1	RZ195	46643	1	RZ195	46643
	Other accessories	1	RSR46L	66802	1	RSR46L	66802
		1	RZ148	46300	1	RZ148	46300
		1 *	RSW86P2	45822	1 *	RSW86P2	45822

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TR20 – Main busbar system 2000 A, 3pole

Outgoing sections for compartments without cable area

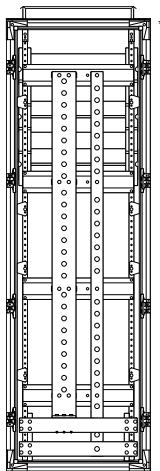
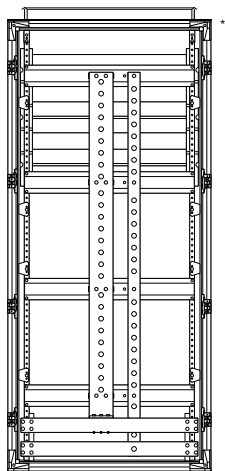
TR20530012			TR20530016			TR20530020		
Comp. section without cable area ABB SlimLine / compartment DBB 1250A MBB 2000 A, 2 x Cu 60 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 60 x 10 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)			Comp. section without cable area ABB SlimLine / compartment DBB 1600A MBB 2000 A, 2 x Cu 60 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 100 %, 2 x Cu 60 x 10 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)			Comp. section without cable area ABB SlimLine / compartment DBB 2000A MBB 2000 A, 2 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100 %, 2 x Cu 60 x 10 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)		
1963 x 740 x 625			1963 x 740 x 625			1963 x 740 x 625		
189 kg			198 kg			209 kg		
								
Maximum usable height 1800 mm			Maximum usable height 1800 mm			Maximum usable height 1800 mm		
Always use Tmax breaker phase barriers*6			Always use Tmax breaker phase barriers*6			Always use Tmax breaker phase barriers*6		
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR20530012	65635	1	TR20530016	65636	1	TR20530020	65637
1	RTW255302	66697	1	RTW255302	66697	1	RTW255302	66697
1	RZ194	46642	1	RZ194	46642	1	RZ194	46642
1	RZ195	46643	1	RZ195	46643	1	RZ195	46643
1	RSR216L	66281	1	RSR216L	66281	1	RSR216L	66281
1	RZ148	46300	1	RZ148	46300	1	RZ148	46300
1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822

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* Only one set required per assembly | *6 200 mm Phase barriers must be ordered separately together with the breaker | *7 Order segregation wall separately as require

TR20 – Main busbar system 2000 A, 3pole

Cable section

TR20 - 2000 A, 3pole		TR204800		TR204900			
System TR20 Main busbar system 2000 A, 3pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Cable section 2-panels wide MBB 2000 A, 2 x Cu 60 x 10 N 100 %, 2 x Cu 60 x 10 / 1 x Cu 100 x 10 PE 50 %, 1 x Cu 60 x 10 / 1 x Cu 50 x 10 (Dimensions in mm)		Cable section 3-panels wide MBB 2000 A, 2 x Cu 60 x 10 N 100 %, 2 x Cu 60 x 10 / 1 x Cu 100 x 10 PE 50 %, 1 x Cu 60 x 10 / 1 x Cu 50 x 10 (Dimensions in mm)			
Height x width x depth (mm)		1963 x 614 x 625		1963 x 864 x 625			
Weight of complete cabinet		146 kg		175 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall							
Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR204800	65699	1	TR204900	65700
Mounting plate for measurement and control applications							
Set for internal form of separation		1	RTW254802	66396	1	RTW254902	66397
Aluminium multi flange plate, closed		2	RZF4	46405	1	RZF5	46406
Aluminium flange plate, closed		6	RZF1	66832	8	RZF1	66832
Aluminium flange plate, with cable support sleeves		6	RZF6	46609	8	RZF6	46609
Busbar connection set (N busbars on the same level)		1	RZ194	46642	1	RZ194	46642
Busbar connection set (N busbars on a different level)		1	RZ195	46643	1	RZ195	46643
Plinth with ventilation apertures		1	RSR26L	66800	1	RSR36L	66801
Mechanical cabinet / cabinet connection		1	RZ148	46300	1	RZ148	46300
Set of side walls		1 *	RSW86P2	45822	1 *	RSW86P2	45822

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For your own notes

This image shows a full page of blank graph paper. The grid consists of small squares formed by thin green lines. There are 20 columns and 20 rows of squares, creating a total area of 400 small squares. The background is white, and the grid lines are a consistent light green color.

TR20 - 2000 A
3pole

TR20 – Main busbar system 2000 A, 4pole

Overview

Page

Technical specifications	6 - 1
Incoming / outgoing sections for breaker, type ABB SACE S7	6 - 2
Incoming / outgoing sections for breaker, type ABB SACE E2	6 - 3
Coupler sections for breaker, type ABB SACE E2	6 - 3
Outgoing sections for fuse switch disconnecter, type ABB SlimLine SR	6 - 4
Outgoing sections for fuse switch disconnecter, type ABB SlimLine XR.....	6 - 5
Outgoing sections for compartments with cable area.....	6 - 6
Outgoing sections for compartments without cable area	6 - 7
Cable section	6 - 8



TR20 – Main busbar system 2000 A, 4pole

Technical specifications

Standards/Regulations

Compliance with standards	IEC 60439-1 (EN 60439-1) / IEC 61439-1, IEC 61439-2
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 class	I
Rated frequency	50 Hz
Rated insulation voltage (U_i)	1000 V
Rated operational voltage (U_o)	690 V AC

Main busbar system

MBB

Rated current (I_n)	2000 A
Rated peak withstand current (I_{pk})	165 kA
Rated short time withstand current (I_{sw})	75 kA

Distribution busbar system

DBB

Rated current (I_n)	1250 A	1600 A	2000 A
Rated peak withstand current (I_{pk})	105 kA	165 kA	165 kA
Rated short time withstand current (I_{sw})	50 kA	75 kA	75 kA

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 Cabinet	RAL 7035
Powder coating plinth	RAL 7005
Bottom plate	galvanised sheet steel 1,5 mm

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

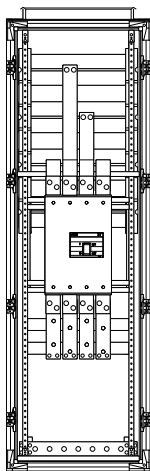
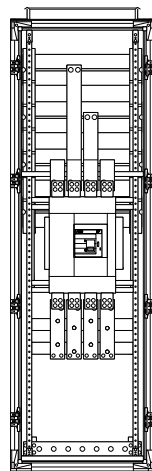
TR40 - 4000 A
3pole

Compartments

Accessories

TR20 – Main busbar system 2000 A, 4pole

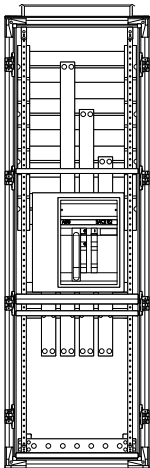
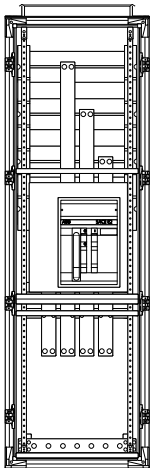
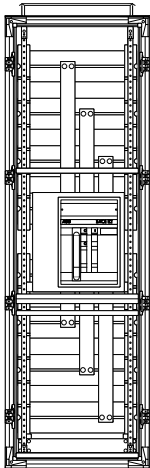
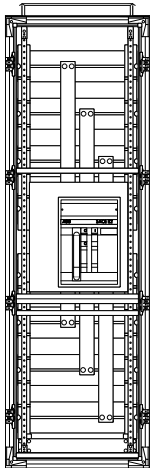
Incoming / outgoing sections for breaker,
type ABB SACE S7

TR20 - 2000 A, 4pole		TR200101		TR200201			
System TR20 Main busbar system 2000 A, 4pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Incoming / outgoing section ABB S7 fixed DBB 1250 A MBB 2000 A, 2 x Cu 60 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)		Incoming / outgoing section ABB S7 withdrawable DBB 1250 A MBB 2000 A, 2 x Cu 60 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)			
Height x width x depth (mm)		1963 x 614 x 625		1963 x 614 x 625			
Weight of complete cabinet		175 kg		167 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall							
Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Front extended terminals - EF		Front extended terminals - EF			
Dimensions of CT's		Window of CT's 60 mm x 10 mm Max width of CT's 86 mm		Window of CT's 60 mm x 10 mm Max width of CT's 86 mm			
		Per Cabinet	Type Ord. No.*	Per Cabinet	Type Ord. No.*	Per Cabinet	Type Ord. No.*
Complete assembled cabinet		1	TR200101 65701	1	TR200201 65702		
Mounting plate for measurement and control applications		1	MSR2/450 65994	1	MSR2/450 65994		
Set for internal form of separation		1	RTW2501 46881	1	RTW2501 46881		
Microcellular rubber sinusoidal flange		1	RZ65 46225	1	RZ65 46225		
Aluminium flange plate, closed							
Aluminium flange plate, with cable support sleeves		1	RZF12 46615	1	RZF12 46615		
Busbar connection set (N busbars on the same level)		1	RZ194 46642	1	RZ194 46642		
Busbar connection set (N busbars on a different level)							
Plinth with ventilation apertures		1	RSR26L 66800	1	RSR26L 66800		
Mechanical cabinet / cabinet connection		1	RZ148 46300	1	RZ148 46300		
Set of side walls		1 *	RSW86P2 45822	1 *	RSW86P2 45822		

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TR20 – Main busbar system 2000 A, 4pole

Incoming / outgoing sections for breaker / coupler sections,
type ABB SACE E2

TR200501			TR200601			TR202705			TR202805		
Incoming / outgoing section ABB E2 fixed DBB 1250 A MBB 2000 A, 2 x Cu 60 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)			Incoming / outgoing section ABB E2 withdrawable DBB 1250 A MBB 2000 A, 2 x Cu 60 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)			Coupler section ABB E2 fixed DBB 2000 A MBB 2000 A, 2 x Cu 60 x 10 DBB 2000 A, 2 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)			Coupler section ABB E2 withdrawable DBB 2000 A MBB 2000 A, 2 x Cu 60 x 10 DBB 2000 A, 2 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)		
1963 x 614 x 625			1963 x 614 x 625			1963 x 614 x 625			1963 x 614 x 625		
162 kg			158 kg			209 kg			198 kg		
											
Prepared for breaker with rear terminals - HR			Prepared for breaker with rear terminals - HR			Prepared for breaker with rear terminals - HR			Prepared for breaker with rear terminals - HR		
Window of CT's 60 mm x 10 mm Max width of CT's 120 mm			Window of CT's 60 mm x 10 mm Max width of CT's 120 mm								
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR200501	65703	1	TR200601	65704	1	TR202705	65705	1	TR202805	65706
1	MSR2/600	65995	1	MSR2/600	65995	1	MSR2/600	65995	1	MSR2/600	65995
1	RTW2502	46882	1	RTW2503	46883	1	RTW2506	46886	1	RTW2507	46887
1	RZ65	46225	1	RZ65	46225						
1	RZF12	46615	1	RZF12	46615						
1	RZ194	46642	1	RZ194	46642	1	RZ194	46642	1	RZ194	46642
1	RSR26L	66800	1	RSR26L	66800	1	RSR26L	66800	1	RSR26L	66800
1	RZ148	46300	1	RZ148	46300	1	RZ148	46300	1	RZ148	46300
1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822

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* Only one set required per assembly | *3 N is included in the MBB / DBB arrangement

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

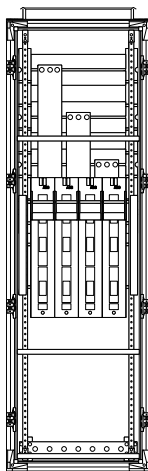
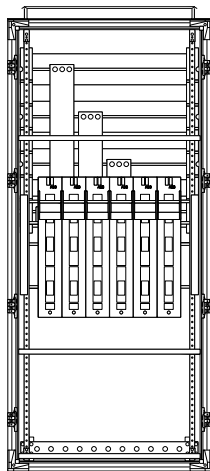
TR40 - 4000 A
3pole

Compartments

Accessories

TR20 – Main busbar system 2000 A, 4pole

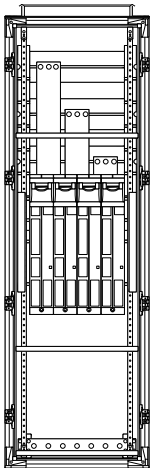
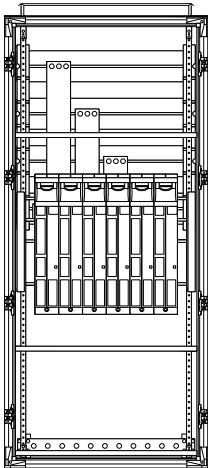
Outgoing sections for fuse switch disconnecter, type ABB SlimLine SR

TR20 - 2000 A, 4pole		TR204001		TR204101			
System TR20 Main busbar system 2000 A, 4pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Outgoing section ABB SlimLine SR, 2-panels wide Devices vertical MBB 2000 A, 2 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100% *3 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)		Outgoing section ABB SlimLine SR, 3-panels wide Devices vertical MBB 2000 A, 2 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100% *3 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)			
Height x width x depth (mm)		1963 x 614 x 625		1963 x 864 x 625			
Weight of complete cabinet		173 kg		195 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall							
Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Maximum usable width 400 mm		Maximum usable width 600 mm			
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR204001	65711	1	TR204101	65712
Mounting plate for measurement and control applications		1	MSR2/450 *2	65994	1	MSR3/450 *2	65996
Set for internal form of separation		1	RTW2540021	47024	1	RTW2541021	47025
Microcellular rubber sinusoidal flange		1	RZ65	46225	1	RZ66	46226
Aluminium flange plate, closed							
Aluminium flange plate, with cable support sleeves		1	RZF12	46615	1	RZF13	46616
Busbar connection set (N busbars on the same level)		1	RZ194	46642	1	RZ194	46642
Busbar connection set (N busbars on a different level)							
Plinth with ventilation apertures		1	RSR26L	66800	1	RSR36L	66801
Mechanical cabinet / cabinet connection		1	RZ148	46300	1	RZ148	46300
Set of side walls		1 *	RSW86P2	45822	1 *	RSW86P2	45822

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TR20 – Main busbar system 2000 A, 4pole

Outgoing sections for fuse switch disconnecter,
type ABB SlimLine XR

TR207401			TR207501					
Outgoing section ABB SlimLine XR, 2-panels wide Devices vertical MBB 2000 A, 2 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100% *3 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)			Outgoing section ABB SlimLine XR, 3-panels wide Devices vertical MBB 2000 A, 2 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100% *3 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)					
1963 x 614 x 625			1963 x 864 x 625					
166 kg			206 kg					
								
Maximum usable width 400 mm			Maximum usable width 600 mm					
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR207401	65590	1	TR207501	65591			
1	MSR2/450 *2	65994	1	MSR3/450 *2	65996			
1	RTW2540021	47024	1	RTW2541021	47025			
1	RZ65	46225	1	RZ66	46226			
1	RZF12	46615	1	RZF13	46616			
1	RZ194	46642	1	RZ194	46642			
1	RSR26L	66800	1	RSR36L	66801			
1	RZ148	46300	1	RZ148	46300			
1 *	RSW86P2	45822	1 *	RSW86P2	45822			

*2CPX0*****R9999

* Only one set required per assembly | *2 The measurement & control mounting plate can easily be added, due to prepared perforations on the internal segregation | *3 N is included in the MBB / DBB arrangement

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

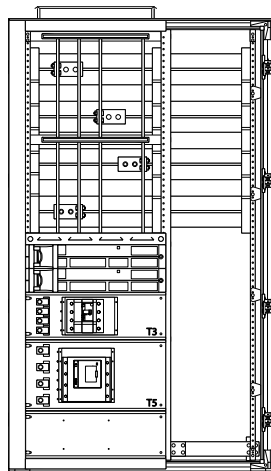
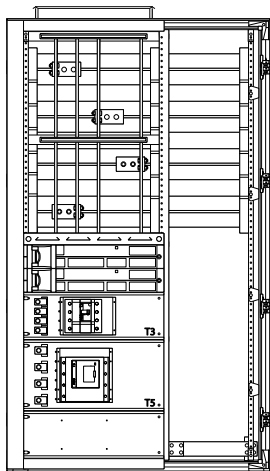
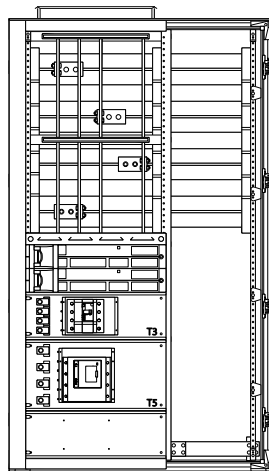
TR40 - 4000 A
3pole

Compartments

Accessories

TR20 – Main busbar system 2000 A, 4pole

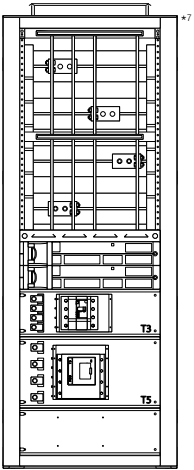
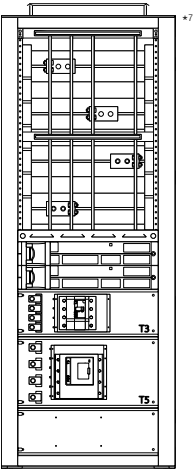
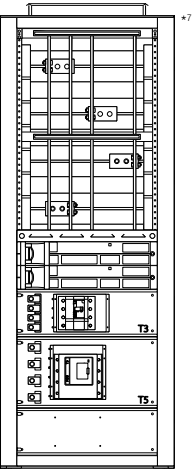
Outgoing sections for compartments with cable area

TR20 - 2000 A, 4pole	TR20520112		TR20520116		TR20520120	
System TR20 Main busbar system 2000 A, 4pole Protection class I Degree of protection IP30 Dead front assembly Without devices	Comp. section with cable area ABB SlimLine / compartment DBB 1250A MBB 2000 A, 2 x Cu 60 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 60 x 10 / 1 x Cu 30 x 10 (Dimensions in mm)		Comp. section with cable area ABB SlimLine / compartment DBB 1600A MBB 2000 A, 2 x Cu 60 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 100% *3 PE 50 %, 1 x Cu 60 x 10 / 1 x Cu 40 x 10 (Dimensions in mm)		Comp. section with cable area ABB SlimLine / compartment DBB 2000A MBB 2000 A, 2 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100% *3 PE 50 %, 1 x Cu 60 x 10 / 1 x Cu 50 x 10 (Dimensions in mm)	
Height x width x depth (mm)	1963 x 1114 x 625		1963 x 1114 x 625		1963 x 1114 x 625	
Weight of complete cabinet	261 kg		276 kg		293 kg	
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall						
Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software						
Devices	Maximum usable height 1800 mm		Maximum usable height 1800 mm		Maximum usable height 1800 mm	
	Always use Tmax breaker phase barriers*6		Always use Tmax breaker phase barriers*6		Always use Tmax breaker phase barriers*6	
	Per Cabinet	Type Ord. No.*	Per Cabinet	Type Ord. No.*	Per Cabinet	Type Ord. No.*
Complete assembled cabinet	1	TR20520112 65632	1	TR20520116 65633	1	TR20520120 65634
Mounting plate for measurement and control applications						
Set for internal form of separation	1	RTW255202 66696	1	RTW255202 66696	1	RTW255202 66696
Aluminium multi flange plate, closed	2	RZF4 46405	2	RZF4 46405	2	RZF4 46405
Aluminium flange plate, closed	6	RZF1 66832	6	RZF1 66832	6	RZF1 66832
Aluminium flange plate, with cable support sleeves	6	RZF6 46609	6	RZF6 46609	6	RZF6 46609
Busbar connection set (N busbars on the same level)	1	RZ194 46642	1	RZ194 46642	1	RZ194 46642
Busbar connection set (N busbars on a different level)						
Plinth with ventilation apertures	1	RSR46L 66802	1	RSR46L 66802	1	RSR46L 66802
Mechanical cabinet / cabinet connection	1	RZ148 46300	1	RZ148 46300	1	RZ148 46300
Set of side walls	1 *	RSW86P2 45822	1 *	RSW86P2 45822	1 *	RSW86P2 45822

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TR20 – Main busbar system 2000 A, 4pole

Outgoing sections for compartments without cable area

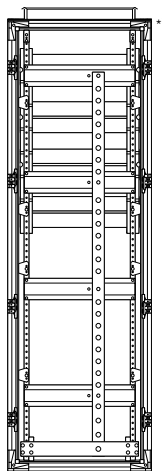
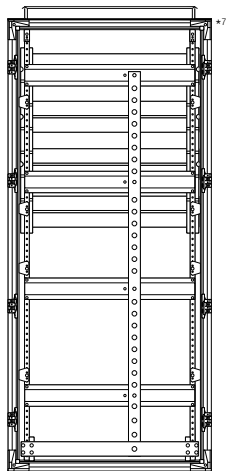
TR20530112			TR20530116			TR20530120		
Comp. section without cable area *4 ABB SlimLine / compartment DBB 1250A MBB 2000 A, 2 x Cu 60 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)			Comp. section without cable area *4 ABB SlimLine / compartment DBB 1600A MBB 2000 A, 2 x Cu 60 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 100% *3 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)			Comp. section without cable area *4 ABB SlimLine / compartment DBB 2000A MBB 2000 A, 2 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100% *3 PE 50 %, 1 x Cu 60 x 10 (Dimensions in mm)		
1963 x 740 x 625			1963 x 740 x 625			1963 x 740 x 625		
201 kg			213 kg			229 kg		
								
Maximum usable height 1800 mm			Maximum usable height 1800 mm			Maximum usable height 1800 mm		
Always use Tmax breaker phase barriers*6			Always use Tmax breaker phase barriers*6			Always use Tmax breaker phase barriers*6		
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR20530112	65638	1	TR20530116	65639	1	TR20530120	65640
1	RTW255302	66697	1	RTW255302	66697	1	RTW255302	66697
1	RZ194	46642	1	RZ194	46642	1	RZ194	46642
1	RSR216L	66281	1	RSR216L	66281	1	RSR216L	66281
1	RZ148	46300	1	RZ148	46300	1	RZ148	46300
1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822

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* Only one set required per assembly | *3 N is included in the MBB / DBB arrangement | *4 When using a cable section on the left, the DBB system has to be rearranged | *6 200 mm Phase barriers must be ordered separately together with the breaker | *7 Order segregation wall separately as required

TR20 – Main busbar system 2000 A, 4pole

Cable section

TR20 - 2000 A, 4pole		TR204801		TR204901			
System TR20 Main busbar system 2000 A, 4pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Cable section 2-panels wide MBB 2000 A, 2 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 60 x 10 / 1 x Cu 50 x 10 (Dimensions in mm)		Cable section 3-panels wide MBB 2000 A, 2 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 60 x 10 / 1 x Cu 50 x 10 (Dimensions in mm)			
Height x width x depth (mm)		1963 x 614 x 625		1963 x 864 x 625			
Weight of complete cabinet		133 kg		164 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall							
Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR204801	65720	1	TR204901	65721
Mounting plate for measurement and control applications							
Set for internal form of separation		1	RTW254802	66396	1	RTW254902	66397
Aluminium multi flange plate, closed		2	RZF4	46405	2	RZF5	46406
Aluminium flange plate, closed		6	RZF1	66832	8	RZF1	66832
Aluminium flange plate, with cable support sleeves		6	RZF6	46609	8	RZF6	46609
Busbar connection set (N busbars on the same level)		1	RZ194	46642	1	RZ194	46642
Busbar connection set (N busbars on a different level)							
Plinth with ventilation apertures		1	RSR26L	66800	1	RSR36L	66801
Mechanical cabinet / cabinet connection		1	RZ148	46300	1	RZ148	46300
Set of side walls		1 *	RSW86P2	45822	1 *	RSW86P2	45822

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For your own notes

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TR25 – Main busbar system 2500 A, 3pole

Overview

Page

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Incoming / outgoing sections for breaker, type ABB SACE T7, X1, S7	7 - 3
Incoming / outgoing sections for breaker, type ABB SACE E2	7 - 4
Incoming / outgoing sections for breaker, type ABB SACE E3	7 - 5
Coupler sections for breaker, type ABB SACE E3	7 - 5
Outgoing sections for fuse switch disconnecter, type ABB SlimLine SR	7 - 6
Outgoing sections for fuse switch disconnecter, type ABB SlimLine XR	7 - 7
Outgoing sections for compartments with cable area	7 - 8
Outgoing sections for compartments without cable area	7 - 9
Cable section	7 - 10
Offset section	7 - 11
Corner section	7 - 11



TR25 – Main busbar system 2500 A, 3pole

Technical specifications

Standards/Regulations

Compliance with standards	IEC 60439-1 (EN 60439-1) / IEC 61439-1, IEC 61439-2
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 class	I
Rated frequency	50 Hz
Rated insulation voltage (U)	1000 V
Rated operational voltage (U_o)	690 V AC

Main busbar system

MBB

Rated current (I_n)	2500 A
Rated peak withstand current (I_{pk})	165 kA
Rated short time withstand current (I_{cw})	75 kA

Distribution busbar system

DBB

Rated current (I_n)	1250 A	1600 A	2000 A
Rated peak withstand current (I_{pk})	105 kA	165 kA	165 kA
Rated short time withstand current (I_{cw})	50 kA	75 kA	75 kA

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 Cabinet	RAL 7035
Powder coating plinth	RAL 7005
Bottom plate	galvanised sheet steel 1,5 mm

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

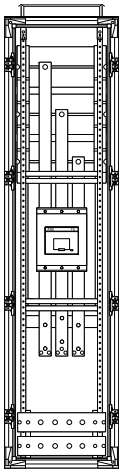
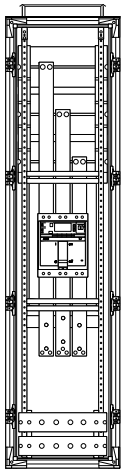
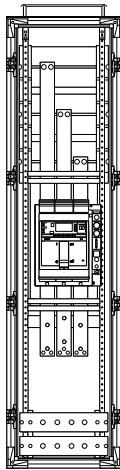
TR40 - 4000 A
3pole

Compartments

Accessories

TR25 – Main busbar system 2500 A, 3pole

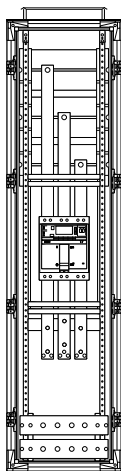
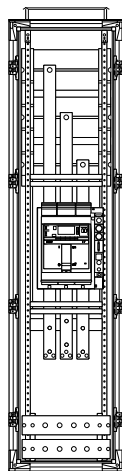
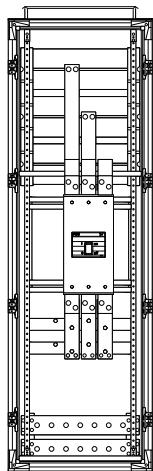
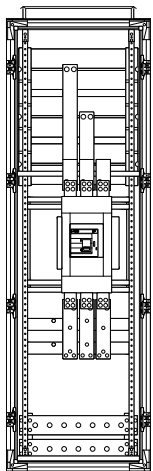
Incoming / outgoing sections for breaker,
type ABB SACE T6, T7, X1

TR25 - 2500 A 3pole		TR25540010		TR25560012		TR25570012	
System TR25 Main busbar system 2500 A, 3pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Incoming / outgoing section ABB T6 fixed DBB 1000 A MBB 2500 A, 2 x Cu 80 x 10 DBB 1000 A, 1 x Cu 50 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)		Incoming / outgoing section ABB T7 / X1 fixed DBB 1250 A MBB 2500 A, 2 x Cu 80 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)		Incoming / outgoing section ABB T7 / X1 withdrawable DBB 1250 A MBB 2500 A, 2 x Cu 80 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)	
Height x width x depth (mm)		1963 x 489 x 625		1963 x 489 x 625		1963 x 489 x 625	
Weight of complete cabinet		154 kg		157 kg		154 kg	
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Rear terminals - R		Prepared for breaker with rear terminals - HR		Prepared for breaker with rear terminals - HR	
Dimensions of CT's		Window of CT's 50 mm x 10 mm Max width of CT's 90 mm		Window of CT's 60 mm x 10 mm Max width of CT's 88 mm		Window of CT's 60 mm x 10 mm Max width of CT's 88 mm	
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR25540010	65872	1	TR25560012	65887
Accessories	Required for form 2b	1	MSR11/600	65993	1	MSR11/600	65993
	Set for internal form of separation	1	RTW255402	46943	1	RTW255602	46944
	Microcellular rubber sinusoidal flange	1	RZ68	46946	1	RZ68	46946
	Aluminium flange plate, closed	1	RZF20	46948	1	RZF20	46948
	Aluminium flange plate, with cable support sleeves	1	RZF21	46949	1	RZF21	46949
	Busbar connection set (N busbars on the same level)	1	RZ60	46220	1	RZ60	46220
	Busbar connection set (N busbars on a different level) *1	1	RZ61	46221	1	RZ61	46221
	Plinth with ventilation apertures	1	RSR116L	46936	1	RSR116L	46936
	Mechanical cabinet / cabinet connection	1	RZ148	46300	1	RZ148	46300
Set of side walls		1 *	RSW86P2	45822	1 *	RSW86P2	45822

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TR25 – Main busbar system 2500 A, 3pole

Incoming / outgoing sections for breaker,
type ABB SACE T7, X1, S7

TR25560016			TR25570016			TR250100			TR250200		
Incoming / outgoing section ABB T7 / X1 fixed DBB 1600 A MBB 2500 A, 2 x Cu 80 x 10 DBB 1600 A, 2 x Cu 50 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)			Incoming / outgoing section ABB T7 / X1 withdrawable DBB 1600 A MBB 2500 A, 2 x Cu 80 x 10 DBB 1600 A, 2 x Cu 50 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)			Incoming / outgoing section ABB S7 fixed DBB 1250 A MBB 2500 A, 2 x Cu 80 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)			Incoming / outgoing section ABB S7 withdrawable DBB 1250 A MBB 2500 A, 2 x Cu 80 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)		
1963 x 489 x 625			1963 x 489 x 625			1963 x 614 x 625			1963 x 614 x 625		
174 kg			168 kg			180 kg			173 kg		
											
Prepared for breaker with rear terminals - HR			Prepared for breaker with rear terminals - HR			Front extended terminals - EF			Front extended terminals - EF		
Window of CT's 50 mm x 30 mm Max width of CT's 90 mm			Window of CT's 50 mm x 30 mm Max width of CT's 90 mm			Window of CT's 60 mm x 10 mm Max width of CT's 86 mm			Window of CT's 60 mm x 10 mm Max width of CT's 86 mm		
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR25560016	65889	1	TR25570016	65890	1	TR250100	66619	1	TR250200	66620
1	MSR11/600	65993	1	MSR11/600	65993	1	MSR2/450	65994	1	MSR2/450	65994
1	RTW255602	46944	1	RTW255702	46945	1	RTW2501	46881	1	RTW2501	46881
1	RZ68	46946	1	RZ68	46946	1	RZ65	46225	1	RZ65	46225
1	RZF20	46948	1	RZF20	46948						
1	RZF21	46949	1	RZF21	46949	1	RZF12	46615	1	RZF12	46615
1	RZ60	46220	1	RZ60	46220	1	RZ60	46220	1	RZ60	46220
1	RZ61	46221	1	RZ61	46221	1	RZ61	46221	1	RZ61	46221
1	RSR116L	46936	1	RSR116L	46936	1	RSR26L	66800	1	RSR26L	66800
1	RZ148	46300	1	RZ148	46300	1	RZ148	46300	1	RZ148	46300
1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822

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* Only one set required per assembly

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

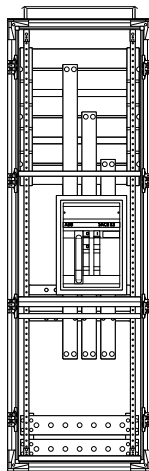
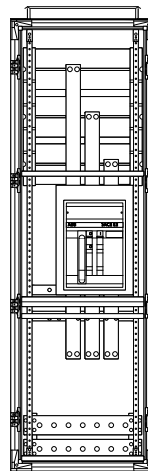
TR40 - 4000 A
3pole

Compartments

Accessories

TR25 – Main busbar system 2500 A, 3pole

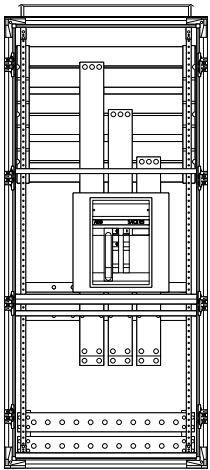
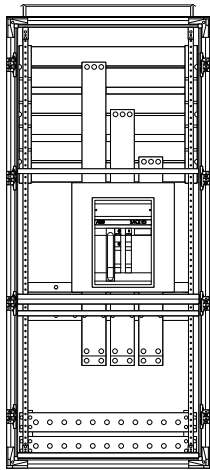
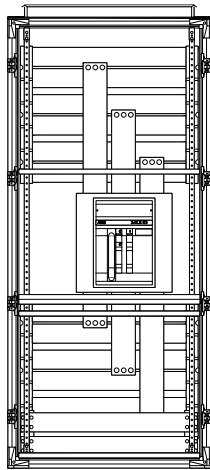
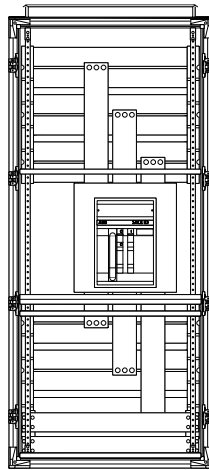
Incoming / outgoing sections for breaker,
type ABB SACE E2

TR25 - 2500 A 3pole		TR250500		TR250600			
System TR25 Main busbar system 2500 A, 3pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Incoming / outgoing section ABB E2 fixed DBB 1250 A MBB 2500 A, 2 x Cu 80 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)		Incoming / outgoing section ABB E2 withdrawable DBB 1250 A MBB 2500 A, 2 x Cu 80 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)			
Height x width x depth (mm)		1963 x 614 x 625		1963 x 614 x 625			
Weight of complete cabinet		163 kg		173 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall							
Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Prepared for breaker with rear terminals - HR		Prepared for breaker with rear terminals - HR			
Dimensions of CT's		Window of CT's 60 mm x 10 mm Max width of CT's 120 mm		Window of CT's 60 mm x 10 mm Max width of CT's 120 mm			
		Per Cabinet	Type Ord. No.*	Per Cabinet	Type Ord. No.*	Per Cabinet	Type Ord. No.*
Complete assembled cabinet		1	TR250500 66621	1	TR250600 66622		
Mounting plate for measurement and control applications		1	MSR2/600 65995	1	MSR2/600 65995		
Set for internal form of separation		1	RTW2502 46882	1	RTW2503 46883		
Microcellular rubber sinusoidal flange		1	RZ65 46225	1	RZ65 46225		
Aluminium flange plate, closed							
Aluminium flange plate, with cable support sleeves		1	RZF12 46615	1	RZF12 46615		
Busbar connection set (N busbars on the same level)		1	RZ60 46220	1	RZ60 46220		
Busbar connection set (N busbars on a different level) *1		1	RZ61 46221	1	RZ61 46221		
Plinth with ventilation apertures		1	RSR26L 66800	1	RSR26L 66800		
Mechanical cabinet / cabinet connection		1	RZ148 46300	1	RZ148 46300		
Set of side walls		1 *	RSW86P2 45822	1 *	RSW86P2 45822		

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TR25 - Main busbar system 2500 A, 3pole

Incoming / outgoing sections for breaker/coupler sections, type ABB SACE E3

TR250700			TR250800			TR251704			TR251804		
Incoming section ABB E3 fixed DBB 2500 A MBB 2500 A, 2 x Cu 80 x 10 DBB 2500 A, 2 x Cu 100 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)			Incoming section ABB E3 withdrawable DBB 2500 A MBB 2500 A, 2 x Cu 80 x 10 DBB 2500 A, 2 x Cu 100 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)			Coupler section ABB E3 fixed DBB 2500 A MBB 2500 A, 2 x Cu 80 x 10 DBB 2500 A, 2 x Cu 100 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)			Coupler section ABB E3 withdrawable DBB 2500 A MBB 2500 A, 2 x Cu 80 x 10 DBB 2500 A, 2 x Cu 100 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)		
1963 x 864 x 625			1963 x 864 x 625			1963 x 864 x 625			1963 x 864 x 625		
250 kg			244 kg			293 kg			280 kg		
											
Prepared for breaker with rear terminals - HR			Prepared for breaker with rear terminals - HR			Prepared for breaker with rear terminals - HR			Prepared for breaker with rear terminals - HR		
Window of CT's 100 mm x 46 mm Max width of CT's 152 mm			Window of CT's 100 mm x 30 mm Max width of CT's 152 mm								
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR250700	66623	1	TR250800	66624	1	TR251704	66625	1	TR251804	66626
1	MSR3/600	65997	1	MSR3/600	65997	1	MSR3/600	65997	1	MSR3/600	65997
1	RTW2504	46884	1	RTW2505	46885	1	RTW2508	46888	1	RTW2509	46889
1	RZ66	46226	1	RZ66	46226						
1	RZF13	46616	1	RZF13	46616						
1	RZ60	46220	1	RZ60	46220	1	RZ60	46220	1	RZ60	46220
1	RZ61	46221	1	RZ61	46221	1	RZ61	46221	1	RZ61	46221
1	RSR36L	66801	1	RSR36L	66801	1	RSR36L	66801	1	RSR36L	66801
1	RZ148	46300	1	RZ148	46300	1	RZ148	46300	1	RZ148	46300
1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822

*2CPX0*****R9999

* Only one set required per assembly

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

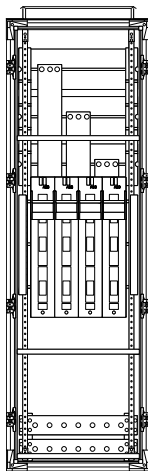
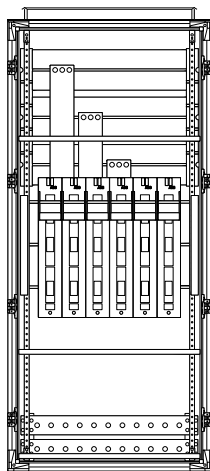
TR40 - 4000 A
3pole

Compartments

Accessories

TR25 – Main busbar system 2500 A, 3pole

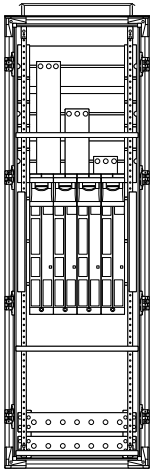
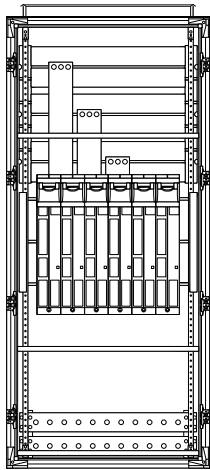
Outgoing sections for fuse switch disconnecter, type ABB SlimLine SR

TR25 - 2500 A 3pole		TR254000		TR254100			
System TR25 Main busbar system 2500 A, 3pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Outgoing section ABB SlimLine SR, 2-panels wide Devices vertical MBB 2500 A, 2 x Cu 80 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)		Outgoing section ABB SlimLine SR, 3-panels wide Devices vertical MBB 2500 A, 2 x Cu 80 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)			
Height x width x depth (mm)		1963 x 614 x 625		1963 x 864 x 625			
Weight of complete cabinet		157 kg		203 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall							
Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Maximum usable width 400 mm		Maximum usable width 600 mm			
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR254000	66631	1	TR254100	66632
Mounting plate for measurement and control applications		1	MSR2/450 *2	65994	1	MSR3/450 *2	65996
Set for internal form of separation		1	RTW2540021	47024	1	RTW2541021	47025
Microcellular rubber sinusoidal flange		1	RZ65	46225	1	RZ66	46226
Aluminium flange plate, closed							
Aluminium flange plate, with cable support sleeves		1	RZF12	46615	1	RZF13	46616
Busbar connection set (N busbars on the same level)		1	RZ60	46220	1	RZ60	46220
Busbar connection set (N busbars on a different level) *1		1	RZ61	46221	1	RZ61	46221
Plinth with ventilation apertures		1	RSR26L	66800	1	RSR36L	66801
Mechanical cabinet / cabinet connection		1	RZ148	46300	1	RZ148	46300
Set of side walls		1 *	RSW86P2	45822	1 *	RSW86P2	45822

*2CPX0*****R9999

TR25 – Main busbar system 2500 A, 3pole

Outgoing sections for fuse switch disconnecter, type ABB SlimLine XR

TR257400			TR257500					
Outgoing section ABB SlimLine XR, 2-panels wide Devices vertical MBB 2500 A, 2 x Cu 80 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)			Outgoing section ABB SlimLine XR, 3-panels wide Devices vertical MBB 2500 A, 2 x Cu 80 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)					
1963 x 614 x 625			1963 x 864 x 625					
172 kg			215 kg					
								
Maximum usable width 400 mm			Maximum usable width 600 mm					
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR257400	65592	1	TR257500	65593			
1	MSR2/450 *2	65994	1	MSR3/450 *2	65996			
1	RTW2540021	47024	1	RTW2541021	47025			
1	RZ65	46225	1	RZ66	46226			
1	RZF12	46615	1	RZF13	46616			
1	RZ60	46220	1	RZ60	46220			
1	RZ61	46221	1	RZ61	46221			
1	RSR26L	66800	1	RSR36L	66801			
1	RZ148	46300	1	RZ148	46300			
1 *	RSW86P2	45822	1 *	RSW86P2	45822			

*2CPX0*****R9999

* Only one set required per assembly | *2 The measurement & control mounting plate can easily be added, due to prepared perforations on the internal segregation

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

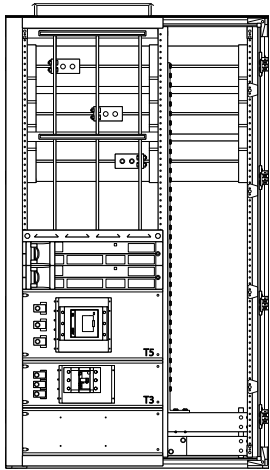
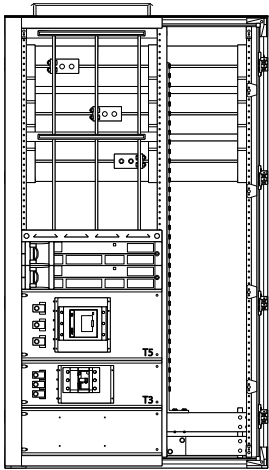
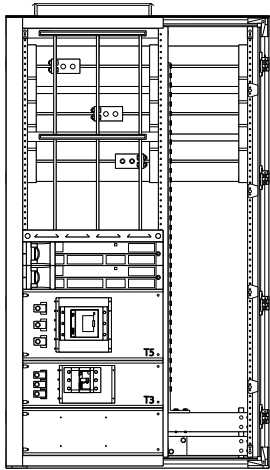
TR40 - 4000 A
3pole

Compartments

Accessories

TR25 – Main busbar system 2500 A, 3pole

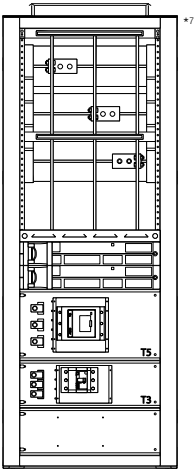
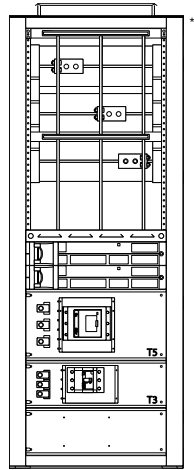
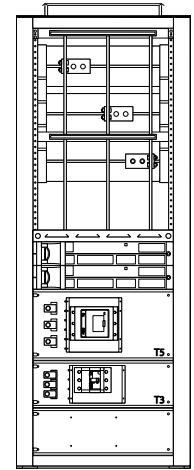
Outgoing sections for compartments with cable area

TR25 - 2500 A 3pole		TR25520012		TR25520016		TR25520020	
System TR25 Main busbar system 2500 A, 3pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Comp. section with cable area ABB SlimLine / compartments DBB 1250A MBB 2500 A, 2 x Cu 80 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 80 x 10 / 1 x Cu 60 x 10 PE 50 %, 1 x Cu 80 x 10 / 1 x Cu 30 x 10 (Dimensions in mm)		Comp. section with cable area ABB SlimLine / compartments DBB 1600A MBB 2500 A, 2 x Cu 80 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 100 %, 2 x Cu 80 x 10 / 1 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 / 1 x Cu 40 x 10 (Dimensions in mm)		Comp. section with cable area ABB SlimLine / compartments DBB 2000A MBB 2500 A, 2 x Cu 80 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100 %, 2 x Cu 80 x 10 / 1 x Cu 100 x 10 PE 50 %, 1 x Cu 80 x 10 / 1 x Cu 50 x 10 (Dimensions in mm)	
Height x width x depth (mm)		1963 x 1114 x 625		1963 x 1114 x 625		1963 x 1114 x 625	
Weight of complete cabinet		278 kg		293 kg		309 kg	
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Maximum usable height 1800 mm		Maximum usable height 1800 mm		Maximum usable height 1800 mm	
		Always use Tmax breaker phase barriers*6		Always use Tmax breaker phase barriers*6		Always use Tmax breaker phase barriers*6	
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR25520012	65642	1	TR25520016	65643
Accessories	Required for form 2b						
	Mounting plate for measurement and control applications						
	Set for internal form of separation	1	RTW255202	66696	1	RTW255202	66696
	Flange selection	2	RZF4	46405	2	RZF4	46405
		6	RZF1	66832	6	RZF1	66832
		6	RZF6	46609	6	RZF6	46609
	Connection set selection	1	RZ60	46220	1	RZ60	46220
		1	RZ61	46221	1	RZ61	46221
	Other accessories	1	RSR46L	66802	1	RSR46L	66802
		1	RZ148	46300	1	RZ148	46300
		1 *	RSW86P2	45822	1 *	RSW86P2	45822

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TR25 – Main busbar system 2500 A, 3pole

Outgoing sections for compartments without cable area

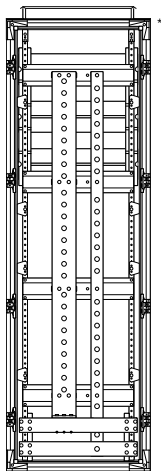
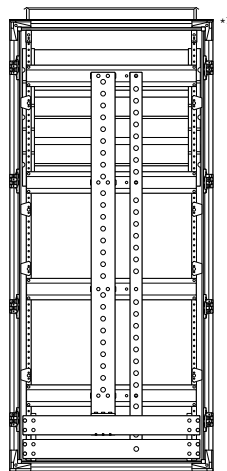
TR25530012			TR25530016			TR25530020		
Comp. section without cable area ABB SlimLine / compartments DBB 1250A MBB 2500 A, 2 x Cu 80 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)			Comp. section without cable area ABB SlimLine / compartments DBB 1600A MBB 2500 A, 2 x Cu 80 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)			Comp. section without cable area ABB SlimLine / compartments DBB 2000A MBB 2500 A, 2 x Cu 80 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)		
1963 x 740 x 625			1963 x 740 x 625			1963 x 740 x 625		
201 kg			209 kg			221 kg		
								
Maximum usable height 1800 mm			Maximum usable height 1800 mm			Maximum usable height 1800 mm		
Always use Tmax breaker phase barriers* ⁶			Always use Tmax breaker phase barriers* ⁶			Always use Tmax breaker phase barriers* ⁶		
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR25530012	65649	1	TR25530016	65650	1	TR25530020	65651
1	RTW255302	66697	1	RTW255302	66697	1	RTW255302	66697
1	RZ60	46220	1	RZ60	46220	1	RZ60	46220
1	RZ61	46221	1	RZ61	46221	1	RZ61	46221
1	RSR216L	66281	1	RSR216L	66281	1	RSR216L	66281
1	RZ148	46300	1	RZ148	46300	1	RZ148	46300
1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822

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* Only one set required per assembly | *⁶ 200 mm Phase barriers must be ordered separately together with the breaker | *⁷ Order segregation wall separately as required

TR25 – Main busbar system 2500 A, 3pole

Cable section

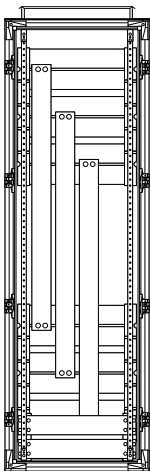
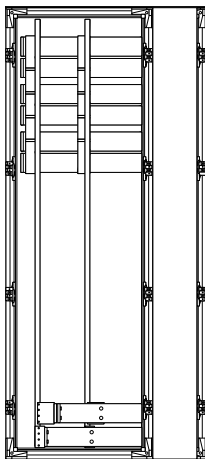
TR25 - 2500 A 3pole		TR254800		TR254900			
System TR25 Main busbar system 2500 A, 3pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Cable section 2-panels wide MBB 2500 A, 2 x Cu 80 x 10 N 100 %, 2 x Cu 80 x 10 / 1 x Cu 100 x 10 PE 50 %, 1 x Cu 80 x 10 / 1 x Cu 50 x 10 (Dimensions in mm)		Cable section 3-panels wide MBB 2500 A, 2 x Cu 80 x 10 N 100 %, 2 x Cu 80 x 10 / 1 x Cu 100 x 10 PE 50 %, 1 x Cu 80 x 10 / 1 x Cu 50 x 10 (Dimensions in mm)			
Height x width x depth (mm)		1963 x 614 x 625		1963 x 864 x 625			
Weight of complete cabinet		163 kg		196 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall							
Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
		Per Cabinet	Type Ord. No.*	Per Cabinet	Type Ord. No.*	Per Cabinet	Type Ord. No.*
Complete assembled cabinet		1	TR254800 66368	1	TR254900 66371		
Mounting plate for measurement and control applications							
Set for internal form of separation		1	RTW254802 66396	1	RTW254902 66397		
Aluminium multi flange plate, closed		2	RZF4 46405	2	RZF5 46406		
Aluminium flange plate, closed		6	RZF1 66832	8	RZF1 66832		
Aluminium flange plate, with cable support sleeves		6	RZF6 46609	8	RZF6 46609		
Busbar connection set (N busbars on the same level)		1	RZ60 46220	1	RZ60 46220		
Busbar connection set (N busbars on a different level) *1		1	RZ61 46221	1	RZ61 46221		
Plinth with ventilation apertures		1	RSR26L 66800	1	RSR36L 66801		
Mechanical cabinet / cabinet connection		1	RZ148 46300	1	RZ148 46300		
Set of side walls		1 *	RSW86P2 45822	1 *	RSW86P2 45822		

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TR25 – Main busbar system 2500 A, 3pole

Offset section

Corner section

TR255004				TR255100			
Offset section 2-panels wide MBB 2500 A, 2 x Cu 80 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm) 1963 x 614 x 625 217 kg				Corner section MBB 2500 A, 2 x Cu 80 x 10 N 100 %, 2 x Cu 80 x 10 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm) 1913 x 844 x 844 215 kg			
							
Per Cabinet	Type	Ord. No. +		Per Cabinet	Type	Ord. No. +	
1	TR255004	66627		1	TR255100	66637	
1	RTW2550021	47028					
1	RZ60	46220		1	RZ60	46220	
1	RZ61	46221		1	RZ61	46221	
1	RSR26L	66800		1	RSRE61	66810	
1	RZ148	46300		1	RZ148	46300	
1 *	RSW86P2	45822		1 *	RSW86P2	45822	

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* Only one set required per assembly

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

TR40 - 4000 A
3pole

Compartment

Accessories

TR25 – Main busbar system 2500 A, 4pole

Overview

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TR25 – Main busbar system 2500 A, 4pole

Technical specifications

Standards/Regulations

Compliance with standards	IEC 60439-1 (EN 60439-1) / IEC 61439-1, IEC 61439-2
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 class	I
Rated frequency	50 Hz
Rated insulation voltage (U)	1000 V
Rated operational voltage (U_o)	690 V AC

Main busbar system

MBB

Rated current (I_n)	2500 A
Rated peak withstand current (I_{pk})	165 kA
Rated short time withstand current (I_{sw})	75 kA

Distribution busbar system

DBB

Rated current (I_n)	1250 A	1600 A	2000 A
Rated peak withstand current (I_{pk})	105 kA	165 kA	165 kA
Rated short time withstand current (I_{sw})	50 kA	75 kA	75 kA

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 Cabinet	RAL 7035
Powder coating plinth	RAL 7005
Bottom plate	galvanised sheet steel 1,5 mm

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

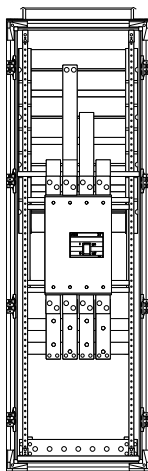
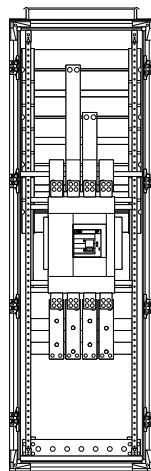
TR40 - 4000 A
3pole

Compartments

Accessories

TR25 – Main busbar system 2500 A, 4pole

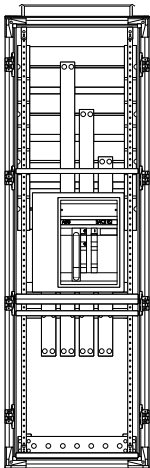
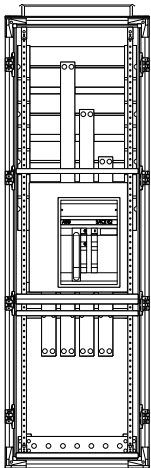
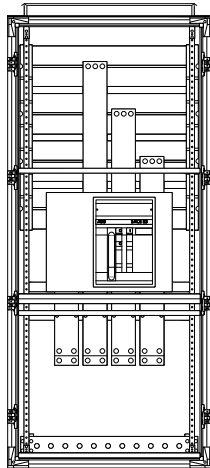
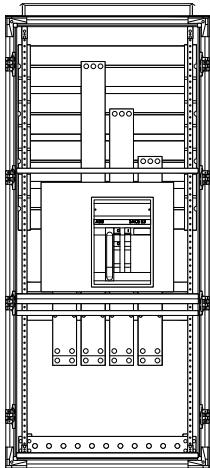
Incoming / outgoing sections for breaker,
type ABB SACE S7

TR25 - 2500 A, 4pole		TR250101		TR250201			
System TR25 Main busbar system 2500 A, 4pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Incoming / outgoing section ABB S7 fixed DBB 1250 A MBB 2500 A, 2 x Cu 80 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% * ³ PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)		Incoming / outgoing section ABB S7 withdrawable DBB 1250 A MBB 2500 A, 2 x Cu 80 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% * ³ PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)			
Height x width x depth (mm)		1963 x 614 x 625		1963 x 614 x 625			
Weight of complete cabinet		184 kg		205 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall							
Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Front extended terminals - EF		Front extended terminals - EF			
Dimensions of CT's		Window of CT's 60 mm x 10 mm Max width of CT's 86 mm		Window of CT's 60 mm x 10 mm Max width of CT's 86 mm			
		Per Cabinet	Type Ord. No.*	Per Cabinet	Type Ord. No.*	Per Cabinet	Type Ord. No.*
Complete assembled cabinet		1	TR250101 66638	1	TR250201 66639		
Mounting plate for measurement and control applications		1	MSR2/450 65994	1	MSR2/450 65994		
Set for internal form of separation		1	RTW2501 46881	1	RTW2501 46881		
Microcellular rubber sinusoidal flange		1	RZ65 46225	1	RZ65 46225		
Aluminium flange plate, closed							
Aluminium flange plate, with cable support sleeves		1	RZF12 46615	1	RZF12 46615		
Busbar connection set (N busbars on the same level)		1	RZ60 46220	1	RZ60 46220		
Busbar connection set (N busbars on a different level)							
Plinth with ventilation apertures		1	RSR26L 66800	1	RSR26L 66800		
Mechanical cabinet / cabinet connection		1	RZ148 46300	1	RZ148 46300		
Set of side walls		1 *	RSW86P2 45822	1 *	RSW86P2 45822		

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TR25 – Main busbar system 2500 A, 4pole

Incoming / outgoing sections for breaker,
type ABB SACE E2 and ABB SACE E3

TR250501			TR250601			TR250701			TR250801		
Incoming / outgoing section ABB E2 fixed DBB 1250 A MBB 2500 A, 2 x Cu 80 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)			Incoming / outgoing section ABB E2 withdrawable DBB 1250 A MBB 2500 A, 2 x Cu 80 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)			Incoming section ABB E3 fixed DBB 2500 A MBB 2500 A, 2 x Cu 80 x 10 DBB 2500 A, 2 x Cu 100 x 10 N 100% *3 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)			Incoming section ABB E3 withdrawable DBB 2500 A MBB 2500 A, 2 x Cu 80 x 10 DBB 2500 A, 2 x Cu 100 x 10 N 100% *3 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)		
1963 x 614 x 625			1963 x 614 x 625			1963 x 864 x 625			1963 x 864 x 625		
170 kg			175 kg			264 kg			253 kg		
											
Prepared for breaker with rear terminals - HR			Prepared for breaker with rear terminals - HR			Prepared for breaker with rear terminals - HR			Prepared for breaker with rear terminals - HR		
Window of CT's 60 mm x 10 mm Max width of CT's 120 mm			Window of CT's 60 mm x 10 mm Max width of CT's 120 mm			Window of CT's 100 mm x 46 mm Max width of CT's 152 mm			Window of CT's 100 mm x 30 mm Max width of CT's 152 mm		
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR250501	66640	1	TR250601	66641	1	TR250701	66642	1	TR250801	66643
1	MSR2/600	65995	1	MSR2/600	65995	1	MSR3/600	65997	1	MSR3/600	65997
1	RTW2502	46882	1	RTW2503	46883	1	RTW2504	46884	1	RTW2505	46885
1	RZ65	46225	1	RZ65	46225	1	RZ66	46226	1	RZ66	46226
1	RZF12	46615	1	RZF12	46615	1	RZF13	46616	1	RZF13	46616
1	RZ60	46220	1	RZ60	46220	1	RZ60	46220	1	RZ60	46220
1	RSR26L	66800	1	RSR26L	66800	1	RSR36L	66801	1	RSR36L	66801
1	RZ148	46300	1	RZ148	46300	1	RZ148	46300	1	RZ148	46300
1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822	1 *	RSW86P2	45822

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* Only one set required per assembly | *3 N is included in the MBB / DBB arrangement

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

TR40 - 4000 A
3pole

Compartments

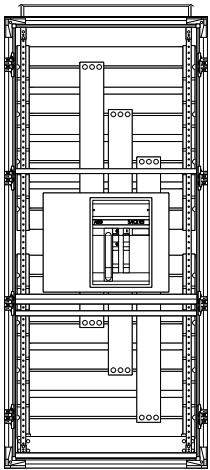
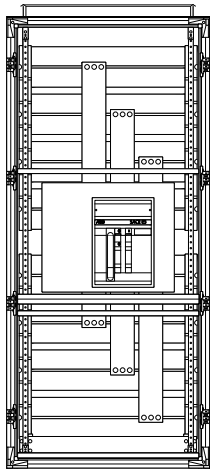
Accessories

TR25 - 2500 A, 4pole							
System TR25 Main busbar system 2500 A, 4pole Protection class I Degree of protection IP30 Dead front assembly Without devices							
Height x width x depth (mm)							
Weight of complete cabinet							
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall							
Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices							
Dimensions of CT's							
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet							
Accessories	Required for form 2b		Mounting plate for measurement and control applications				
			Set for internal form of separation				
	Flange selection		Microcellular rubber sinusoidal flange				
			Aluminium flange plate, closed				
			Aluminium flange plate, with cable support sleeves				
	Connection set selection		Busbar connection set (N busbars on the same level)				
			Busbar connection set (N busbars on a different level)				
	Other accessories		Plinth with ventilation apertures				
			Mechanical cabinet / cabinet connection				
			Set of side walls				

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TR25 – Main busbar system 2500 A, 4pole

Coupler sections, type ABB SACE E3

TR251705			TR251805					
Coupler section ABB E3 fixed DBB 2500 A MBB 2500 A, 2 x Cu 80 x 10 DBB 2500 A, 2 x Cu 100 x 10 N 100% *3 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)			Coupler section ABB E3 withdrawable DBB 2500 A MBB 2500 A, 2 x Cu 80 x 10 DBB 2500 A, 2 x Cu 100 x 10 N 100% *3 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)					
1963 x 864 x 625			1963 x 864 x 625					
318 kg			305 kg					
								
Prepared for breaker with rear terminals - HR			Prepared for breaker with rear terminals - HR					
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR251705	66644	1	TR251805	66645			
1	MSR3/600	65997	1	MSR3/600	65997			
1	RTW2508	46888	1	RTW2509	46889			
1	RZ60	46220	1	RZ60	46220			
1	RSR36L	66801	1	RSR36L	66801			
1	RZ148	46300	1	RZ148	46300			
1 *	RSW86P2	45822	1 *	RSW86P2	45822			

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* Only one set required per assembly | *3 N is included in the MBB / DBB arrangement

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

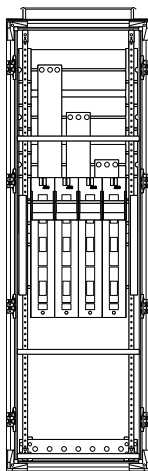
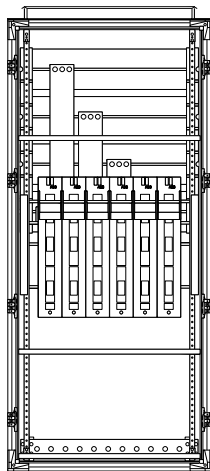
TR40 - 4000 A
3pole

Compartment

Accessories

TR25 – Main busbar system 2500 A, 4pole

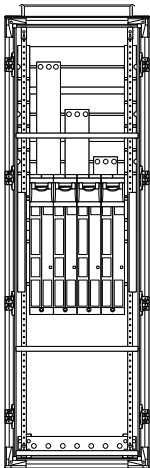
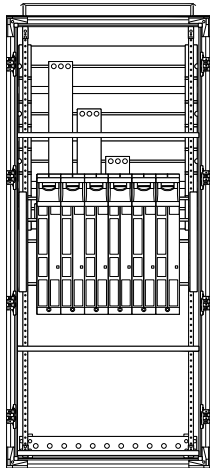
Outgoing sections for fuse switch disconnecter, type ABB SlimLine SR

TR25 - 2500 A, 4pole		TR254001		TR254101			
System TR25 Main busbar system 2500 A, 4pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Outgoing section ABB SlimLine SR, 2-panels wide Devices vertical MBB 2500 A, 2 x Cu 80 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100% *3 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)		Outgoing section ABB SlimLine SR, 3-panels wide Devices vertical MBB 2500 A, 2 x Cu 80 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100% *3 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)			
Height x width x depth (mm)		1963 x 614 x 625		1963 x 864 x 625			
Weight of complete cabinet		181 kg		201 kg			
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall							
Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software							
Devices		Maximum usable width 400 mm		Maximum usable width 600 mm			
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR254001	66650	1	TR254101	66651
Mounting plate for measurement and control applications		1	MSR2/450 *2	65994	1	MSR3/450 *2	65996
Set for internal form of separation		1	RTW2540021	47024	1	RTW2541021	47025
Microcellular rubber sinusoidal flange		1	RZ65	46225	1	RZ66	46226
Aluminium flange plate, closed							
Aluminium flange plate, with cable support sleeves		1	RZF12	46615	1	RZF13	46616
Busbar connection set (N busbars on the same level)		1	RZ60	46220	1	RZ60	46220
Busbar connection set (N busbars on a different level)							
Plinth with ventilation apertures		1	RSR26L	66800	1	RSR36L	66801
Mechanical cabinet / cabinet connection		1	RZ148	46300	1	RZ148	46300
Set of side walls		1 *	RSW86P2	45822	1 *	RSW86P2	45822

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TR25 – Main busbar system 2500 A, 4pole

Outgoing sections for fuse switch disconnecter, type ABB SlimLine XR

TR257401			TR257501					
Outgoing section ABB SlimLine XR, 2-panels wide Devices vertical MBB 2500 A, 2 x Cu 80 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100% *3 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)			Outgoing section ABB SlimLine XR, 3-panels wide Devices vertical MBB 2500 A, 2 x Cu 80 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100% *3 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)					
1963 x 614 x 625			1963 x 864 x 625					
176 kg			220 kg					
								
Maximum usable width 400 mm			Maximum usable width 600 m					
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR257401	65594	1	TR257501	65595			
1	MSR2/450 *2	65994	1	MSR3/450 *2	65996			
1	RTW2540021	47024	1	RTW2541021	47025			
1	RZ65	46225	1	RZ66	46226			
1	RZF12	46615	1	RZF13	46616			
1	RZ60	46220	1	RZ60	46220			
1	RSR26L	66800	1	RSR36L	66801			
1	RZ148	46300	1	RZ148	46300			
1 *	RSW86P2	45822	1 *	RSW86P2	45822			

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* Only one set required per assembly | *2 The measurement & control mounting plate can easily be added, due to prepared perforations on the internal segregation | *3 N is included in the MBB / DBB arrangement

TR12 - 1250 A
3pole

TR12 - 1250 A
4pole

TR16 - 1600 A
3pole

TR16 - 1600 A
4pole

TR20 - 2000 A
3pole

TR20 - 2000 A
4pole

TR25 - 2500 A
3pole

TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

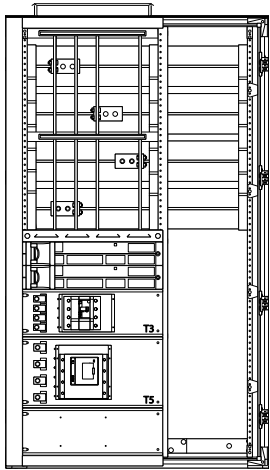
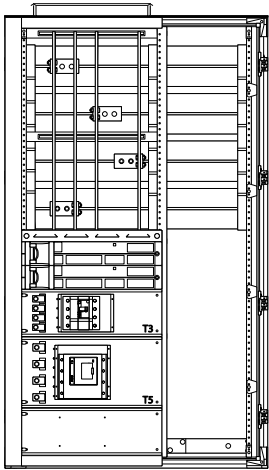
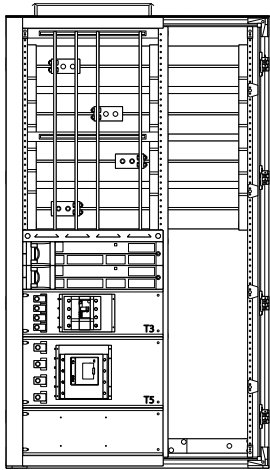
TR40 - 4000 A
3pole

Compartments

Accessories

TR25 – Main busbar system 2500 A, 4pole

Outgoing sections for compartments with cable area

TR25 - 2500 A, 4pole		TR25520112	TR25520116	TR25520120
System TR25 Main busbar system 2500 A, 4pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Comp. section with cable area ABB SlimLine / compartments DBB 1250A MBB 2500 A, 2 x Cu 80 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 80 x 10 / 1 x Cu 30 x 10 (Dimensions in mm)	Comp. section with cable area ABB SlimLine / compartments DBB 1600A MBB 2500 A, 2 x Cu 80 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 100% *3 PE 50 %, 1 x Cu 80 x 10 / 1 x Cu 40 x 10 (Dimensions in mm)	Comp. section with cable area ABB SlimLine / compartments DBB 2000A MBB 2500 A, 2 x Cu 80 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100% *3 PE 50 %, 1 x Cu 80 x 10 / 1 x Cu 50 x 10 (Dimensions in mm)
Height x width x depth (mm)		1963 x 1114 x 625	1963 x 1114 x 625	1963 x 1114 x 625
Weight of complete cabinet		281 kg	295 kg	313 kg
Order complete cabinet - With all parts required to fit devices, - Main / distribution busbars, - Top plate, bottom plate, - Partition wall Ordering in parts - The parts list and the mounting instructions are supplied in the software PDC 3 - Additional accessories as shown below, must be ordered separately - The drawings for all the copper busbars are also in the mounting instructions - The standard copper busbars can be ordered separately - The parts list for the devices is also included in the software				
Devices		Maximum usable height 1800 mm	Maximum usable height 1800 mm	Maximum usable height 1800 mm
		Always use Tmax breaker phase barriers*6	Always use Tmax breaker phase barriers*6	Always use Tmax breaker phase barriers*6
		Per Cabinet	Per Cabinet	Per Cabinet
		Type	Type	Type
		Ord. No.*	Ord. No.*	Ord. No.*
Complete assembled cabinet		1	1	1
		TR25520112	TR25520116	TR25520120
		65645	65646	65647
Accessories	Required for form 2b			
	Mounting plate for measurement and control applications			
	Set for internal form of separation	1	1	1
		RTW255202	RTW255202	RTW255202
		66696	66696	66696
	Flange selection			
	Aluminium multi flange plate, closed	2	2	2
		RZF4	RZF4	RZF4
		46405	46405	46405
	Aluminium flange plate, closed	6	6	6
		RZF1	RZF1	RZF1
		66832	66832	66832
	Aluminium flange plate, with cable support sleeves	6	6	6
		RZF6	RZF6	RZF6
		46609	46609	46609
	Connection set selection			
	Busbar connection set (N busbars on the same level)	1	1	1
		RZ60	RZ60	RZ60
		46220	46220	46220
	Busbar connection set (N busbars on a different level)			
	Other accessories			
	Plinth with ventilation apertures	1	1	1
		RSR46L	RSR46L	RSR46L
		66802	66802	66802
	Mechanical cabinet / cabinet connection	1	1	1
		RZ148	RZ148	RZ148
		46300	46300	46300
	Set of side walls	1 *	1 *	1 *
		RSW86P2	RSW86P2	RSW86P2
		45822	45822	45822

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