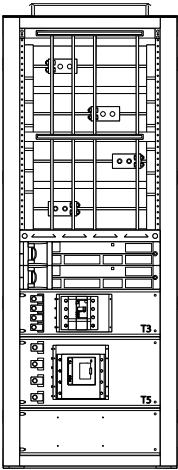
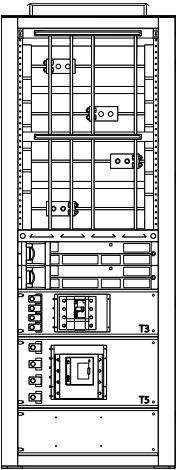
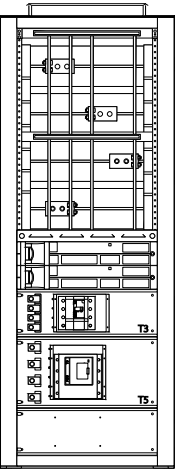


TR25 – Main busbar system 2500 A, 4pole

Outgoing sections for compartments without cable area

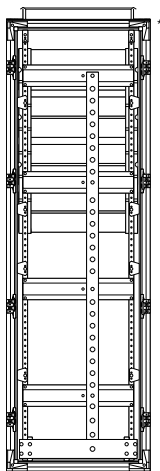
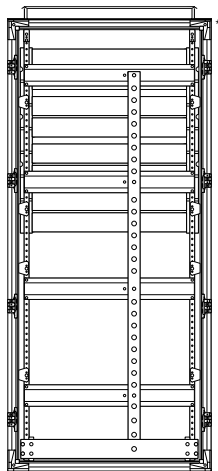
TR25530112			TR25530116			TR25530120		
Comp. section without cable area *4 ABB SlimLine / compartments DBB 1250A MBB 2500 A, 2 x Cu 80 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 80 x 10 (Dimensions in mm)			Comp. section without cable area *4 ABB SlimLine / compartments DBB 1600A MBB 2500 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 (Dimensions in mm)			Comp. section without cable area *4 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 (Dimensions in mm)		
1963 x 740 x 625			1963 x 740 x 625			1963 x 740 x 625		
213 kg			225 kg			241 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	TR25530112	65652	1	TR25530116	65653	1	TR25530120	65654
1	RTW255302	66697	1	RTW255302	66697	1	RTW255302	66697
1	RZ60	46220	1	RZ60	46220	1	RZ60	46220
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

*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
 *4 When using a cable section on the left, the DBB system has to be rearranged | *5 200 mm Phase barriers must be ordered separately together with the breaker | *7 Order segregation wall separately as required

TR25 – Main busbar system 2500 A, 4pole

Cable section

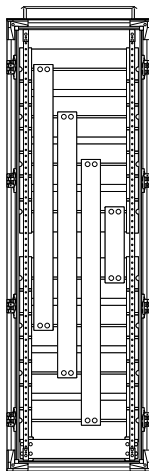
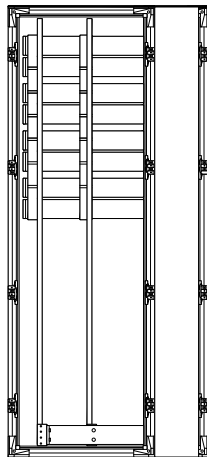
TR25 - 2500 A, 4pole		TR254801		TR254901			
System TR25 Main busbar system 2500 A, 4pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Cable section 2-panels wide MBB 2500 A, 2 x Cu 80 x 10 N 100% *3 PE 50 %, 1 x Cu 80 x 10 / 1 x Cu 50 x 10 (Dimensions in mm)		Cable section 3-panels wide MBB 2500 A, 2 x Cu 80 x 10 N 100% *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 614 x 625		1963 x 864 x 625			
Weight of complete cabinet		157 kg		183 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	TR254801	66369	1	TR254901	66372
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)							
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

Offset section

Corner section

TR255005			TR255101								
Offset section 2-panels wide MBB 2500 A, 2 x Cu 80 x 10 N 100% *3 PE 50 %, 1 x Cu 80 x 10			Corner section MBB 2500 A, 2 x Cu 80 x 10 N 100% *3 PE 50 %, 1 x Cu 80 x 10								
(Dimensions in mm)			(Dimensions in mm)								
1963 x 614 x 625			1963 x 844 x 844								
250 kg			255 kg								
											
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR255005	66646	1	TR255101	66656						
1	RTW2550021	47028									
1	RZ60	46220	1	RZ60	46220						
1	RSR26L	66800	1	RSRE61	66810						
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

Compartment

Accessories

TR35 – Main busbar system 3500 A, 4pole

Overview

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TR35 – Main busbar system 3500 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_e)	690 V AC

Main busbar system	MBB
Rated current (I_n)	3500 A
Rated peak withstand current (I_{pk})	220 kA
Rated short time withstand current (I_{cw})	100 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	without

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

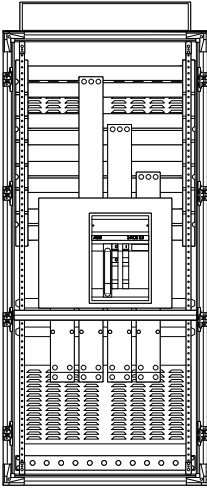
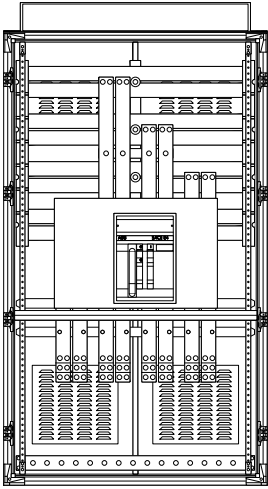
TR40 - 4000 A
3pole

Compartments

Accessories

TR35 – Main busbar system 3500 A, 4pole

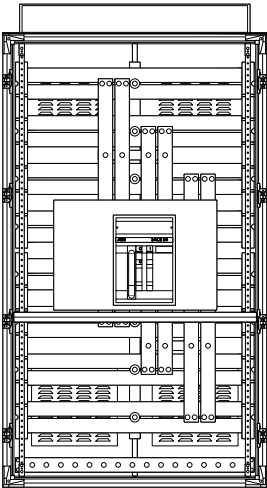
Incoming / outgoing sections for breaker,
type ABB SACE E3 und ABB SACE E4

TR35 - 3500 A, 4pole		TR350801		TR351001			
System TR35 Main busbar system 3500 A, 4pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Incoming / outgoing section ABB E3 withdrawable DBB 2500 A MBB 3500 A, 4 x Cu 60 x 10 DBB 2500 A, 2 x Cu 100 x 10 N 100% *3 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm)		Incoming / outgoing section ABB E4 withdrawable DBB 3500 A MBB 3500 A, 4 x Cu 60 x 10 DBB 3500 A, 6 x Cu 60 x 10 N 100% *3 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm)			
Height x width x depth (mm)		2033 x 864 x 825		2033 x 1114 x 825			
Weight of complete cabinet		328 kg		447 kg			
Order complete cabinet - With all parts required to fit devices - Main / distribution busbars - Top 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 100 mm x 30 mm Max width of CT's 152 mm		Window of CT's 130 mm x 50 mm Max width of CT's 230 mm			
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR350801	66590	1	TR351001	66591
Accessories	Required for form 2b	1	MSR3/600	65997	1	MSR4/600	65999
	Set for internal form of separation	1	RTW4005	46891	1	RTW4003	46893
	Flange selection						
	Microcellular rubber sinusoidal flange						
	Aluminium flange plate, closed						
	Aluminium flange plate, with cable support sleeves						
	Connection set selection	1	RZ115	46415	1	RZ115	46415
	Busbar connection set (N busbars on the same level)						
	Busbar connection set (N busbars on a different level)						
	Other accessories	1	RSR38L	66803	1	RSR48L	66805
Plinth with ventilation apertures		1	RZ148	46300	1	RZ148	46300
Mechanical cabinet / cabinet connection		1 *	RSW88P2	45823	1 *	RSW88P2	45823
Set of side walls							

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TR35 – Main busbar system 3500 A, 4pole

Coupler section, type, ABB SACE E4

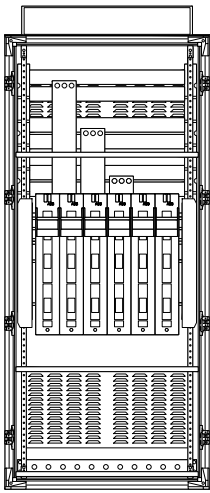
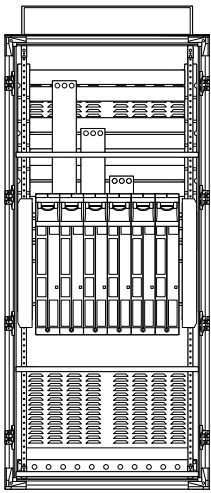
TR352005								
Coupler section ABB E4 withdrawable DBB 3500 A MBB 3500 A, 4 x Cu 60 x 10 DBB 3500 A, 6 x Cu 60 x 10 N 100% *3 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm)								
2033 x 1114 x 825								
534 kg								
								
Prepared for breaker with rear terminals - HR								
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR352005	66592						
1	MSR4/600	65999						
1	RTW4002	46892						
1	RZ115	46415						
1	RSR48L	66805						
1	RZ148	46300						
1 *	RSW88P2	45823						

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

TR35 – Main busbar system 3500 A, 4pole

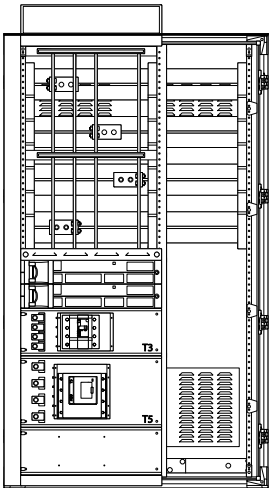
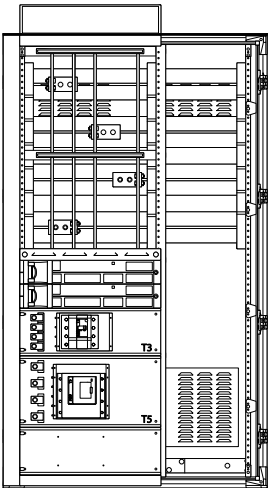
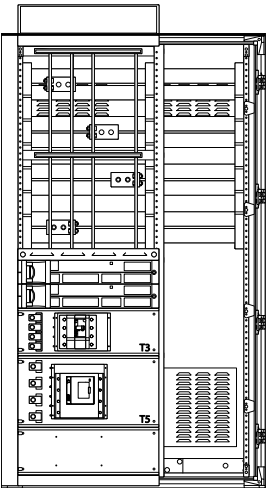
Outgoing sections for fuse switch disconnecter, type ABB SlimLine SR / XR

TR35 - 3500 A, 4pole		TR354101		TR357501			
System TR35 Main busbar system 3500 A, 4pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Outgoing section ABB SlimLine SR, 3-panels wide Devices vertical MBB 3500 A, 4 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100% *3 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm)		Outgoing section ABB SlimLine XR, 3-panels wide Devices vertical MBB 3500 A, 4 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100% *3 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm)			
Height x width x depth (mm)		2033 x 864 x 825		2033 x 864 x 825			
Weight of complete cabinet		253 kg		265 kg			
Order complete cabinet - With all parts required to fit devices - Main / distribution busbars - Top 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 600 mm		Maximum usable width 600 mm			
		Per Cabinet	Type Ord. No.*	Per Cabinet	Type Ord. No.*	Per Cabinet	Type Ord. No.*
Complete assembled cabinet		1	TR354101 66594	1	TR357501 65596		
Accessories	Required for form 2b	1	MSR3/450 *2 65996	1	MSR3/450 *2 65996		
	Set for internal form of separation	1	RTW3541021 47026	1	RTW3541021 47026		
	Aluminium multi flange plate, closed						
	Aluminium flange plate, closed						
	Aluminium flange plate, with cable support sleeves						
	Busbar connection set (N busbars on the same level)	1	RZ115 46415	1	RZ115 46415		
	Busbar connection set (N busbars on a different level)						
	Plinth with ventilation apertures	1	RSR38L 66803	1	RSR38L 66803		
	Mechanical cabinet / cabinet connection	1	RZ148 46300	1	RZ148 46300		
	Set of side walls	1 *	RSW88P2 45823	1 *	RSW88P2 45823		

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TR35 – Main busbar system 3500 A, 4pole

Outgoing sections for compartments with cable area

TR35520112			TR35520116			TR35520120		
Comp. section with cable area ABB SlimLine / compartments DBB 1250A MBB 3500 A, 4 x Cu 60 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 2 x Cu 60 x 10 / 1 x Cu 30 x 10 (Dimensions in mm) 2033 x 1114 x 825 338 kg			Comp. section with cable area ABB SlimLine / compartments DBB 1600A MBB 3500 A, 4 x Cu 60 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 100% *3 PE 50 %, 2 x Cu 60 x 10 / 1 x Cu 40 x 10 (Dimensions in mm) 2033 x 1114 x 825 355 kg			Comp. section with cable area ABB SlimLine / compartments DBB 2000A MBB 3500 A, 4 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100% *3 PE 50 %, 2 x Cu 60 x 10 / 1 x Cu 50 x 10 (Dimensions in mm) 2033 x 1114 x 825 373 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	TR35520112	65656	1	TR35520116	65657	1	TR35520120	65658
1	RTW355202	66698	1	RTW355202	66698	1	RTW355202	66698
1	RZF5	46406	1	RZF5	46406	1	RZF5	46406
4	RZF1	66832	4	RZF1	66832	4	RZF1	66832
4	RZF6	46609	4	RZF6	46609	4	RZF6	46609
1	RZ115	46415	1	RZ115	46415	1	RZ115	46415
1	RSR48L	66805	1	RSR48L	66805	1	RSR48L	66805
1	RZ148	46300	1	RZ148	46300	1	RZ148	46300
1 *	RSW88P2	45823	1 *	RSW88P2	45823	1 *	RSW88P2	45823

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* Only one set required per assembly | *3 N is included in the MBB / DBB arrangement | *6 200 mm Phase barriers must be ordered separately together with the breaker

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

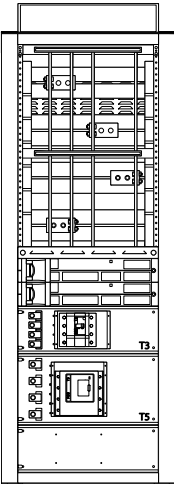
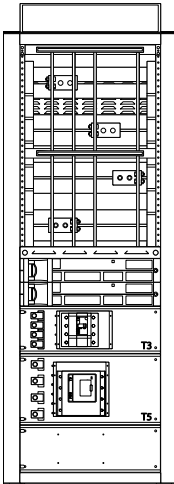
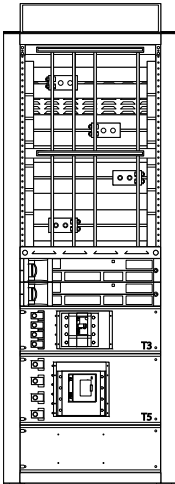
TR40 - 4000 A
3pole

Compartments

Accessories

TR35 – Main busbar system 3500 A, 4pole

Outgoing sections for compartments without cable area

TR35 - 3500 A, 4pole		TR35530112		TR35530116		TR35530120	
System TR35 Main busbar system 3500 A, 4pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Comp. section without cable area *4 ABB SlimLine / compartments DBB 1250A MBB 3500 A, 4 x Cu 60 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 100% *3 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm)		Comp. section without cable area *4 ABB SlimLine / compartments DBB 1600A MBB 3500 A, 4 x Cu 60 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 100% *3 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm)		Comp. section without cable area *4 ABB SlimLine / compartments DBB 2000A MBB 3500 A, 4 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 100% *3 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm)	
Height x width x depth (mm)		2033 x 740 x 825		2033 x 740 x 825		2033 x 740 x 825	
Weight of complete cabinet		249 kg		262 kg		279 kg	
Order complete cabinet - With all parts required to fit devices - Main / distribution busbars - Top 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	TR35530112	65660	1	TR35530116	65661
Accessories	Required for form 2b						
	Mounting plate for measurement and control applications						
	Set for internal form of separation	1	RTW355302	66699	1	RTW355302	66699
	Flange selection						
	Connection set selection						
	Other accessories						

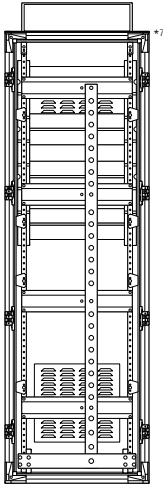
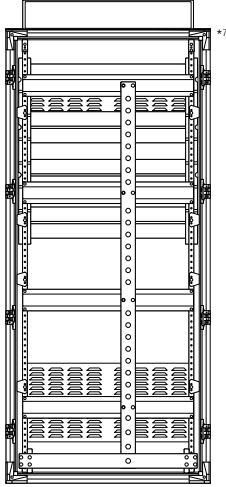
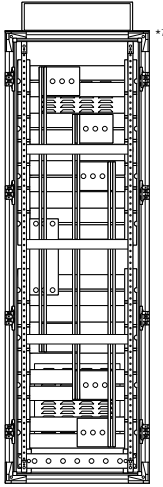
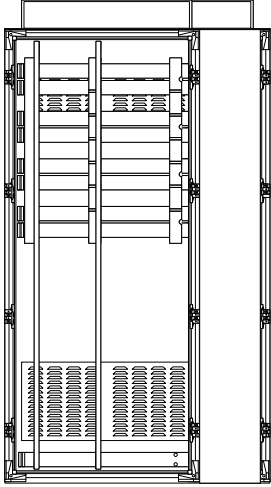
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TR35 – Main busbar system 3500 A, 4pole

Cable section

Offset section

Corner section

TR354801			TR354901			TR355005			TR355101		
Cable section 2-panels wide MBB 3500 A, 4 x Cu 60 x 10 N 100% *3 PE 50 %, 2 x Cu 60 x 10 / 1 x Cu 50 x 10 (Dimensions in mm) 2033 x 614 x 825 184 kg			Cable section 3-panels wide MBB 3500 A, 4 x Cu 60 x 10 N 100% *3 PE 50 %, 1 x Cu 80 x 10 / 1 x Cu 50 x 10 (Dimensions in mm) 2033 x 864 x 825 236 kg			Offset section 2-panels wide MBB 3500 A, 4 x Cu 60 x 10 N 100% *3 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm) 2033 x 614 x 825 357 kg			Corner section MBB 3500 A, 4 x Cu 60 x 10 N 100% *3 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm) 2033 x 1114 x 1114 mm 337 kg		
											
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR354801	66375	1	TR354901	66378	1	TR355005	66593	1	TR355101	66597
1	RTW254802	66396	1	RTW254902	66397	1	RTW2550021 *5	47028			
1	RZF4	46405	1	RZF5	46406						
3	RZF1	66832	4	RZF1	66832						
3	RZF6	46609	4	RZF6	46609						
1	RZ115	46415	1	RZ115	46415	1	RZ115	46415	1	RZ115	46415
1	RSR28L	66804	1	RSR38L	66803	1	RSR28L	66804	1	RSRE81	46440
1	RZ148	46300	1	RZ148	46300	1	RZ148	46300	1	RZ148	46300
1 *	RSW88P2	45823	1 *	RSW88P2	45823	1 *	RSW88P2	45823	1 *	RSW88P2	45823

*2CPX0*****R9999

* Only one set required per assembly | **3 N is included in the MBB / DBB arrangement | *5 Additional cross members are required for assembly (2 profiles RZULH8 and 4 brackets RZ91)

*7 Order segregation wall separately as required

TR40 – Main busbar system 4000 A, 3pole

Overview

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TR40 – Main busbar system 4000 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_e)	690 V AC

Main busbar system

MBB

Rated current (I_n)	4000 A
Rated peak withstand current (I_{pk})	220 kA
Rated short time withstand current (I_{sw})	100 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	without

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

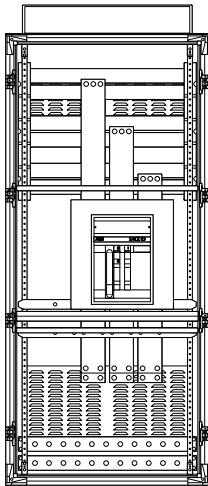
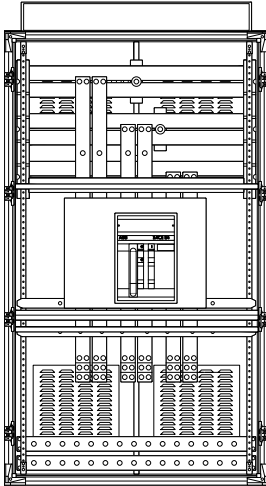
TR40 - 4000 A
3pole

Compartments

Accessories

TR40 – Main busbar system 4000 A, 3pole

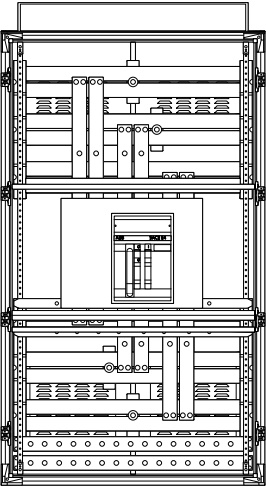
Incoming / outgoing sections for breaker,
type ABB SACE E3 und ABB SACE E4

TR40 - 4000 A, 3pole		TR400800		TR401000			
System TR40 Main busbar system 4000 A, 3pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Incoming / outgoing section ABB E3 withdrawable DBB 2500 A MBB 4000 A, 4 x Cu 60 x 10 DBB 2500 A, 2 x Cu 100 x 10 N 50 %, 2 x Cu 60 x 10 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm)		Incoming / outgoing section ABB E4 withdrawable DBB 4000 A MBB 4000 A, 4 x Cu 60 x 10 DBB 4000 A, 6 x Cu 60 x 10 N 50 %, 2 x Cu 60 x 10 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm)			
Height x width x depth (mm)		2033 x 864 x 825		2033 x 1114 x 825			
Weight of complete cabinet		295 kg		370 kg			
Order complete cabinet - With all parts required to fit devices - Main / distribution busbars - Top 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 100 mm x 30 mm Max width of CT's 152 mm		Window of CT's 130 mm x 50 mm Max width of CT's 230 mm			
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR400800	66663	1	TR401000	66664
Mounting plate for measurement and control applications		1	MSR3/600	65997	1	MSR4/600	65999
Set for internal form of separation		1	RTW4005	46891	1	RTW4003	46893
Microcellular rubber sinusoidal flange							
Aluminium flange plate, closed							
Aluminium flange plate, with cable support sleeves							
Busbar connection set (N busbars on the same level)		1	RZ117	46449	1	RZ117	46449
Busbar connection set (N busbars on a different level) *1		1	RZ118	46450	1	RZ118	46450
Plinth with ventilation apertures		1	RSR38L	66803	1	RSR48L	66805
Mechanical cabinet / cabinet connection		1	RZ148	46300	1	RZ148	46300
Set of side walls		1 *	RSW88P2	45823	1 *	RSW88P2	45823

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TR40 – Main busbar system 4000 A, 3pole

Coupler section, type ABB SACE E4

TR402004								
Coupler section ABB E4 withdrawable DBB 4000 A MBB 4000 A, 4 x Cu 60 x 10 DBB 4000 A, 6 x Cu 60 x 10 N 50 %, 2 x Cu 60 x 10 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm)								
2033 x 1114 x 825								
432 kg								
								
Prepared for breaker with rear terminals - HR								
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR402004	66665						
1	MSR4/600	65999						
1	RTW4002	46892						
1	RZ117	46449						
1	RZ118	46450						
1	RSR48L	66805						
1	RZ148	46300						
1 *	RSW88P2	45823						

*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

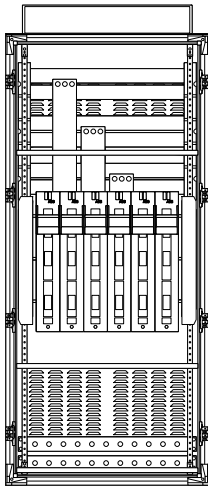
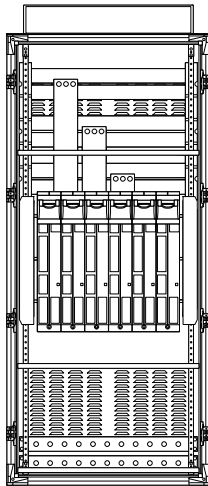
TR40 - 4000 A
3pole

Compartments

Accessories

TR40 – Main busbar system 4000 A, 3pole

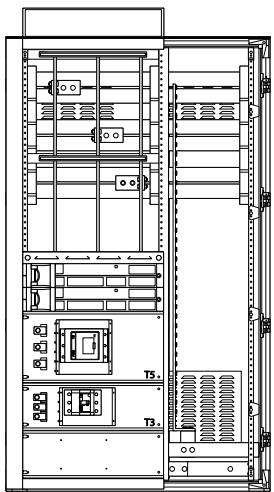
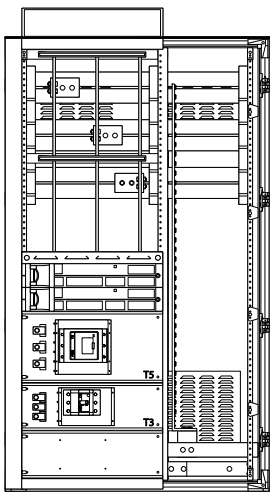
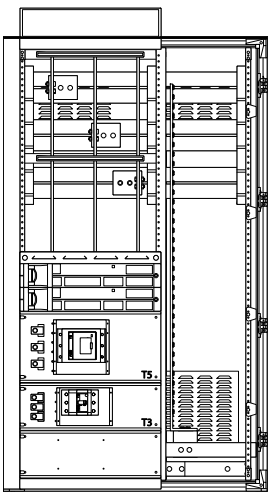
outgoing sections for fuse switch disconnecter,
type ABB SlimLine SR /XR

TR40 - 4000 A, 3pole		TR404100		TR407500			
System TR40 Main busbar system 4000 A, 3pole Protection class I Degree of protection IP30 Dead front assembly Without devices		Outgoing section ABB SlimLine SR, 3-panels wide Devices vertical MBB 4000 A, 4 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 50 %, 2 x Cu 60 x 10 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm)		Outgoing section ABB SlimLine XR, 3-panels wide Devices vertical MBB 4000 A, 4 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 50 %, 2 x Cu 60 x 10 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm)			
Height x width x depth (mm)		2033 x 864 x 825		2033 x 864 x 825			
Weight of complete cabinet		237 kg		253 kg			
Order complete cabinet - With all parts required to fit devices - Main / distribution busbars - Top 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 600 mm		Maximum usable width 600 mm			
		Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
Complete assembled cabinet		1	TR404100	66667	1	TR407500	65597
Mounting plate for measurement and control applications		1	MSR3/450 *2	65996	1	MSR3/450 *2	65996
Set for internal form of separation		1	RTW4041021	47027	1	RTW4041021	47027
Aluminium multi flange plate, closed							
Aluminium flange plate, closed							
Aluminium flange plate, with cable support sleeves							
Busbar connection set (N busbars on the same level)		1	RZ117	46449	1	RZ117	46449
Busbar connection set (N busbars on a different level) *1		1	RZ118	46450	1	RZ118	46450
Plinth with ventilation apertures		1	RSR38L	66803	1	RSR38L	66803
Mechanical cabinet / cabinet connection		1	RZ148	46300	1	RZ148	46300
Set of side walls		1 *	RSW88P2	45823	1 *	RSW88P2	45823

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TR40 – Main busbar system 4000 A, 3pole

Outgoing sections for compartments with cable area

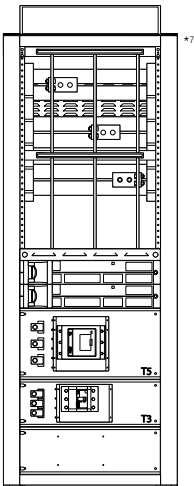
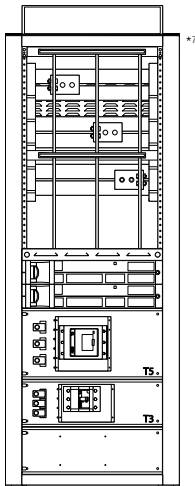
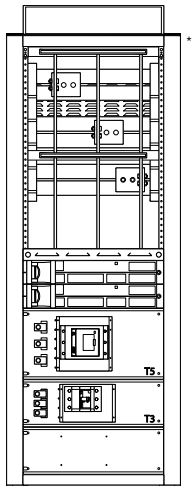
TR40520012			TR40520016			TR40520020		
Comp. section with cable area ABB SlimLine / compartments DBB 1250A MBB 4000 A, 4 x Cu 60 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 50 %, 2 x Cu 60 x 10, 1 x Cu 60 x 10 PE 50 %, 2 x Cu 60 x 10 / 1 x Cu 30 x 10 (Dimensions in mm)			Comp. section with cable area ABB SlimLine / compartments DBB 1600A MBB 4000 A, 4 x Cu 60 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 50 %, 2 x Cu 60 x 10, 1 x Cu 80 x 10 PE 50 %, 2 x Cu 60 x 10 / 1 x Cu 40 x 10 (Dimensions in mm)			Comp. section with cable area ABB SlimLine / compartments DBB 2000A MBB 4000 A, 4 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 50 %, 2 x Cu 60 x 10, 1 x Cu 100 x 10 PE 50 %, 2 x Cu 60 x 10 / 1 x Cu 50 x 10 (Dimensions in mm)		
2033 x 1114 x 825			2033 x 1114 x 825			2033 x 1114 x 825		
316 kg			341 kg			358 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	TR40520012	65664	1	TR40520016	65665	1	TR40520020	65666
1	RTW405202	47030	1	RTW405202	47030	1	RTW405202	47030
1	RZF5	46406	1	RZF5	46406	1	RZF5	46406
4	RZF1	66832	4	RZF1	66832	4	RZF1	66832
4	RZF6	46609	4	RZF6	46609	4	RZF6	46609
1	RZ117	46449	1	RZ117	46449	1	RZ117	46449
1	RZ118	46450	1	RZ118	46450	1	RZ118	46450
1	RSR48L	66805	1	RSR48L	66805	1	RSR48L	66805
1	RZ148	46300	1	RZ148	46300	1	RZ148	46300
1 *	RSW88P2	45823	1 *	RSW88P2	45823	1 *	RSW88P2	45823

*2CPX0*****R9999

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

TR40 – Main busbar system 4000 A, 3pole

Outgoing sections for compartments without cable area

TR40 - 4000 A, 3pole	TR40530012		TR40530016		TR40530020	
System TR40 Main busbar system 4000 A, 3pole Protection class I Degree of protection IP30 Dead front assembly Without devices	Comp. section without cable area *4 ABB SlimLine / compartments DBB 1250A MBB 4000 A, 4 x Cu 60 x 10 DBB 1250 A, 1 x Cu 60 x 10 N 50 %, 2 x Cu 60 x 10 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm)		Comp. section without cable area *4 ABB SlimLine / compartments DBB 1600A MBB 4000 A, 4 x Cu 60 x 10 DBB 1600 A, 1 x Cu 80 x 10 N 50 %, 2 x Cu 60 x 10 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm)		Comp. section without cable area *4 ABB SlimLine / compartments DBB 2000A MBB 4000 A, 4 x Cu 60 x 10 DBB 2000 A, 1 x Cu 100 x 10 N 50 %, 2 x Cu 60 x 10 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm)	
Height x width x depth (mm)	2033 x 740 x 825		2033 x 740 x 825		2033 x 740 x 825	
Weight of complete cabinet	221 kg		240 kg		252 kg	
Order complete cabinet - With all parts required to fit devices - Main / distribution busbars - Top 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	TR40530012	65668	1	TR40530016	65669
Mounting plate for measurement and control applications						
Set for internal form of separation	1	RTW405302	47031	1	RTW405302	47031
Aluminium multi flange plate, closed						
Aluminium flange plate, closed						
Aluminium flange plate, with cable support sleeves						
Busbar connection set (N busbars on the same level)	1	RZ117	46449	1	RZ117	46449
Busbar connection set (N busbars on a different level) *1	1	RZ118	46450	1	RZ118	46450
Plinth with ventilation apertures	1	RSR218L	66282	1	RSR218L	66282
Mechanical cabinet / cabinet connection	1	RZ148	46300	1	RZ148	46300
Set of side walls	1 *	RSW88P2	45823	1 *	RSW88P2	45823

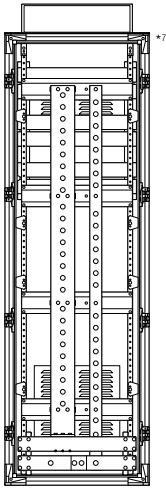
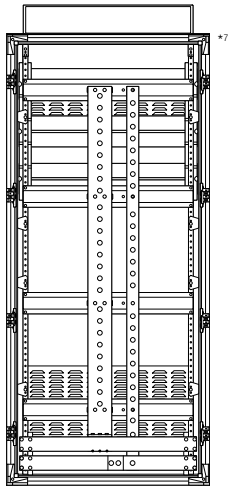
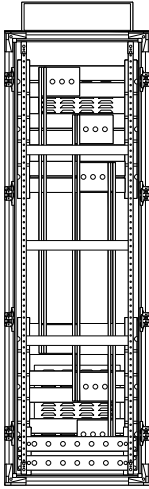
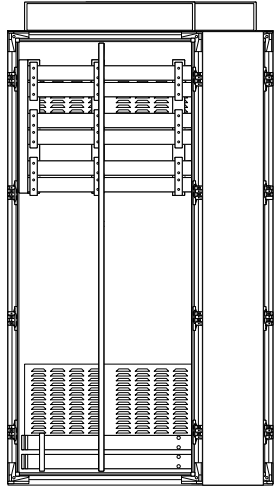
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TR40 – Main busbar system 4000 A, 3pole

Cable section

Offset section

Corner section

TR404800			TR404900			TR405004			TR405100		
Cable section 2-panels wide MBB 4000 A, 4 x Cu 60 x 10 N 50 %, 2 x Cu 60 x 10, 1 x Cu 100 x 10 PE 50 %, 2 x Cu 60 x 10 / 1 x Cu 50 x 10 (Dimensions in mm) 2033 x 614 x 825 198 kg			Cable section 3-panels wide MBB 4000 A, 4 x Cu 60 x 10 N 50 %, 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) 2033 x 864 x 825 262 kg			Offset section 2-panels wide MBB 4000 A, 4 x Cu 60 x 10 N 50 %, 2 x Cu 60 x 10 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm) 2033 x 614 x 825 304 kg			Corner section MBB 4000 A, 4 x Cu 60 x 10 N 50 %, 2 x Cu 60 x 10 PE 50 %, 2 x Cu 60 x 10 (Dimensions in mm) 2034 x 1114 x 1114 318 kg		
											
Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*	Per Cabinet	Type	Ord. No.*
1	TR404800	65613	1	TR404900	65615	1	TR405004	66666	1	TR405100	66678
1	RTW404802	46878	1	RTW404902	46879	1	RTW2550021	47028			
1	RZF4	46405	1	RZF5	46406						
3	RZF1	66832	4	RZF1	66832						
3	RZF6	46609	4	RZF6	46609						
1	RZ117	46449	1	RZ117	46449	1	RZ117	46449	1	RZ117	46449
1	RZ118	46450	1	RZ118	46450	1	RZ118	46450	1	RZ118	46450
1	RSR28L	66804	1	RSR38L	66803	1	RSR28L	66804	1	RSRE81	46440
1	RZ148	46300	1	RZ148	46300	1	RZ148	46300	1	RZ148	46300
1 *	RSW88P2	45823	1 *	RSW88P2	45823	1 *	RSW88P2	45823	1 *	RSW88P2	45823

*2CPX0*****R9999

* Only one set required per assembly | ** 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

TR12 – TR40 Compartments

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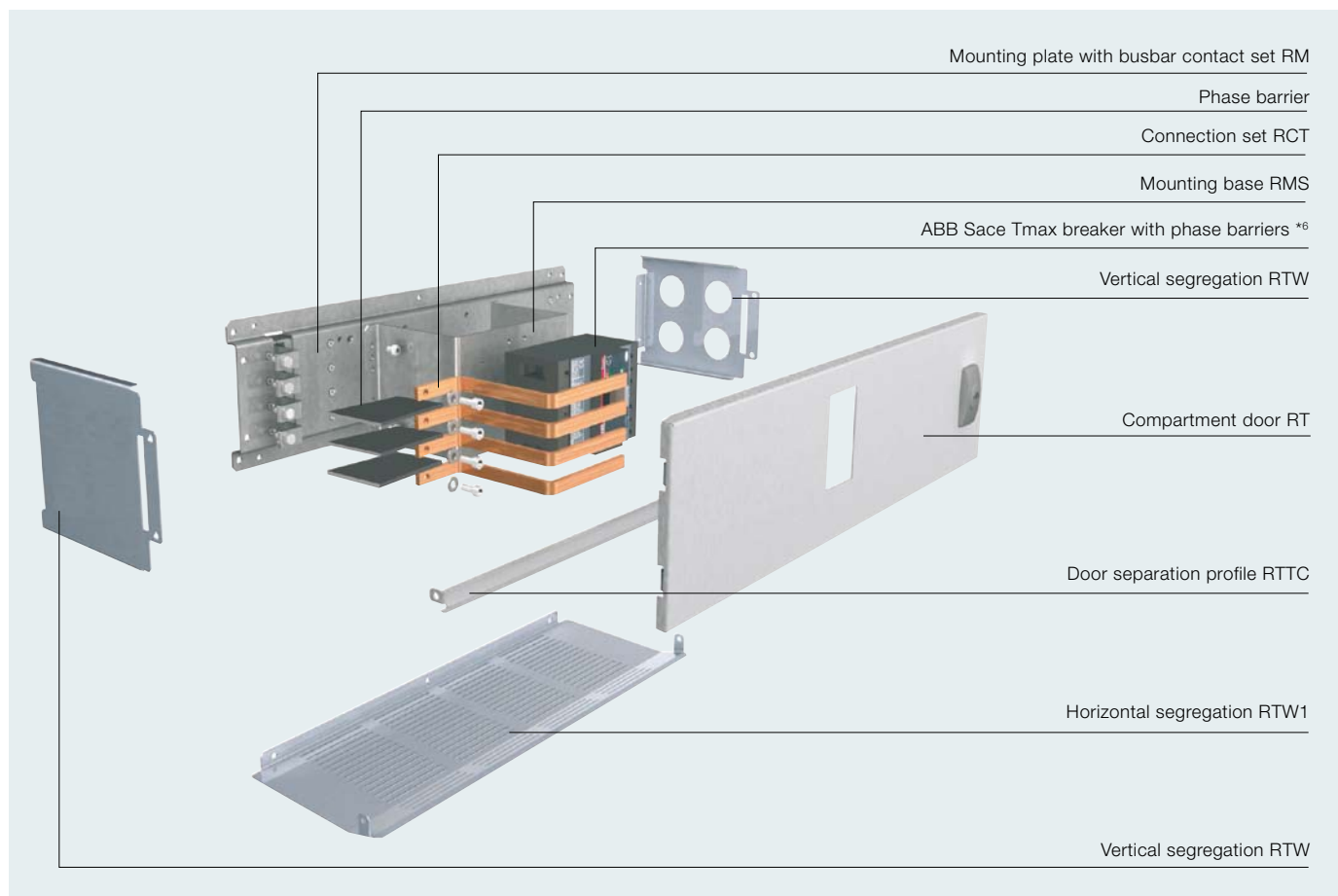


TR12 – TR40 Compartments

Description

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

TR12 – TR40 Compartments

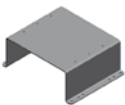
Quick selection table for MCCB type ABB SACE Tmax



		Version	Operating Mechanism		Rated Current I _e (A)	Height (mm)	Mounting plate RM....
	Tmax T1 	Fixed	Lever operating	3	160	150	RM1502
				4	160	150	RM1503
		Fixed	Rotary handle on the door	3	160	150	RM1502
				4	160	150	RM1503
		Fixed	Solenoid operator	3	160	150	RM1502
				4	160	150	RM1503
	Tmax T2 	Fixed	Lever operating	3	160	150	RM1502
				4	160	150	RM1503
		Fixed	Rotary handle on the door	3	160	150	RM1502
				4	160	150	RM1503
		Fixed	Solenoid operator	3	160	150	RM1502
				4	160	150	RM1503
		Plug-in	Lever operating	3	160	150	RM1502
				4	160	150	RM1503
	Tmax T3 	Fixed	Lever operating	3	250	200	RM2002
				4	250	200	RM2003
		Fixed	Rotary handle on the door	3	250	200	RM2002
				4	250	200	RM2003
		Fixed	Solenoid operator	3	250	200	RM2002
				4	250	200	RM2003
		Plug-in	Lever operating	3	250	200	RM2002
				4	250	200	RM2003
	Tmax T4 	Fixed	Lever operating	3	320	200	RM2002
				4	320	200	RM2003
		Fixed	Rotary handle on the door	3	320	200	RM2002
				4	320	200	RM2003
		Plug-in	Lever operating	3	320	200	RM2002
				4	320	200	RM2003
		Withdrawable	Lever operating	3	320	300	RM3002
				4	320	300	RM3003
	Tmax T5 	Fixed	Lever operating	3	630	300	RM3002
				4	630	300	RM3003
		Fixed	Rotary handle on the door	3	630	300	RM3002
				4	630	300	RM3003
		Plug-in up to 400A	Lever operating	3	400	300	RM3002
				4	400	300	RM3003
		Withdrawable up to 400A	Lever operating	3	400	300	RM3002
				4	400	300	RM3003

TR12 – TR40 Compartments

Quick selection table for MCCB type ABB SACE Tmax

						
		Required for IP 41	Standard touch protection		Prepared for form 2b	Phase barriers must be used! *6
Mounting base RMS....	Compartment door RT....	Door separation profile RTTC	Touch protection RB....	Touch protection RB....	Touch protection RB....	Connection set RCT....
RMS1501	RT1502	RTTC	RB1501			RCT113
RMS1501	RT1502	RTTC	RB1501			RCT114
RMS1502	RT1503	RTTC	RB1501		RB1505 *	RCT123
RMS1502	RT1503	RTTC	RB1501		RB1506 *	RCT124
RMS1503	RT1502	RTTC	RB1501			RCT133
RMS1503	RT1502	RTTC	RB1501			RCT134
RMS1501	RT1504	RTTC	RB1501			RCT213
RMS1501	RT1504	RTTC	RB1501			RCT214
RMS1502	RT1505	RTTC	RB1501		RB1505 *	RCT223
RMS1502	RT1505	RTTC	RB1501		RB1506 *	RCT224
RMS1503	RT1504	RTTC	RB1501			RCT233
RMS1503	RT1504	RTTC	RB1501			RCT234
RMS1503	RT1504	RTTC	RB1501			RCT243
RMS1503	RT1504	RTTC	RB1501			RCT244
RMS2001	RT2002	RTTC	RB2001			RCT313
RMS2001	RT2002	RTTC	RB2001			RCT314
RMS2002	RT2003	RTTC	RB2001		RB2005 *	RCT323
RMS2002	RT2003	RTTC	RB2001		RB2006 *	RCT324
RMS2003	RT2002	RTTC	RB2001			RCT333
RMS2003	RT2002	RTTC	RB2001			RCT334
RMS2003	RT2002	RTTC	RB2001			RCT343
RMS2003	RT2002	RTTC	RB2001			RCT344
RMS2005	RT2004	RTTC	RB2001			RCT413
RMS2005	RT2004	RTTC	RB2001			RCT414
RMS2004	RT2005	RTTC	RB2001		RB2007 *	RCT423
RMS2004	RT2005	RTTC	RB2001		RB2008 *	RCT424
RMS2006	RT2004	RTTC	RB2001			RCT433
RMS2006	RT2004	RTTC	RB2001			RCT434
RMS3002	RT3004	RTTC	RB3001			RCT443
RMS3002	RT3004	RTTC	RB3001			RCT444
RMS3001	RT3002	RTTC	RB3001			RCT513
RMS3001	RT3002	RTTC	RB3001			RCT514
RMS3002	RT3003	RTTC	RB3001		RB3006 *	RCT533
RMS3002	RT3003	RTTC	RB3001		RB3007 *	RCT524
RMS3003	RT3002	RTTC	RB3001			RCT553
RMS3003	RT3002	RTTC	RB3001			RCT534
RMS3002	RT3007	RTTC	RB3001			RCT553
RMS3002	RT3007	RTTC	RB3001			RCT534

* Can be used with the internal form of separation form 2b, with the breaker behind the door. In this case mount the MCCB, fixed, lever operated, on the mounting base RMS...02. | *6 200 mm Phase barriers must be ordered separately together with the breaker

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

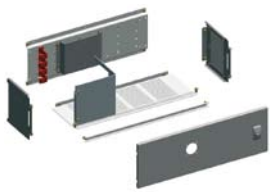
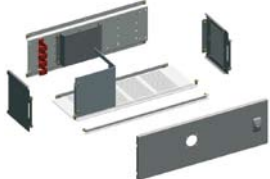
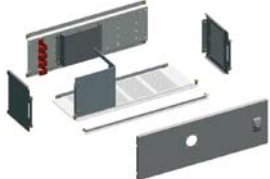
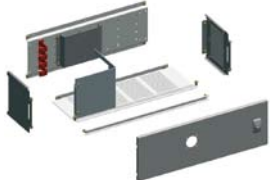
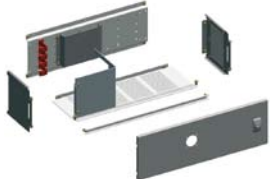
TR40 - 4000 A
3pole

Compartments

Accessoires

TR12 – TR40 Compartments

Quick selection table for MCCB type ABB SACE Tmax

		Version	Operating Mechanism		Rated Current I _e (A)	Height (mm)
	Tmax T1 	Fixed	Lever operating	3	160	150
				4	160	150
		Fixed	Rotary handle on the door	3	160	150
				4	160	150
		Fixed	Solenoid operator	3	160	150
				4	160	150
	Tmax T2 	Fixed	Lever operating	3	160	150
				4	160	150
		Fixed	Rotary handle on the door	3	160	150
				4	160	150
		Fixed	Solenoid operator	3	160	150
				4	160	150
		Plug -in	Lever operating	3	160	150
				4	160	150
	Tmax T3 	Fixed	Lever operating	3	250	200
				4	250	200
		Fixed	Rotary handle on the door	3	250	200
				4	250	200
		Fixed	Solenoid operator	3	250	200
				4	250	200
		Plug -in	Lever operating	3	250	200
				4	250	200
	Tmax T4 	Fixed	Lever operating	3	320	200
				4	320	200
		Fixed	Rotary handle on the door	3	320	200
				4	320	200
		Plug -in	Lever operating	3	320	200
				4	320	200
		Withdrawable	Lever operating	3	320	300
				4	320	300
	Tmax T5 	Fixed	Lever operating	3	630	300
				4	630	300
		Fixed	Rotary handle on the door	3	630	300
				4	630	300
		Plug -in up to 400A	Lever operating	3	400	300
				4	400	300
		Withdrawable up to 400A	Lever operating	3	400	300
				4	400	300

TR12 – TR40 Compartments

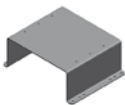
Quick selection table for other compartments



	Version		Rated current I _e (A)	Height (mm)	Mounting plate RM....
	Compartment with busbar contact set	3	160	150	RM1502
		4	160	150	RM1503
		3	320	200	RM2002
		4	320	200	RM2003
		3	630	300	RM3002
		4	630	300	RM3003
	Compartment without busbar contact set			150	RM1501
				200	RM2001
				300	RM3001
				400	RM4001
				600	RM6001
				800	RM8001
				900	RM9001
	Compartment prepared for instruments 96 mm x 96 mm			150	RM1501

TR12 – TR40 Compartments

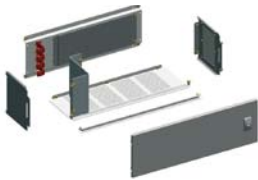
Quick selection table for other compartments

						
		Required for IP 41	Standard touch protection		Prepared for form 2b	Phase barriers must be used! *6
Mounting base RMS....	Compartment door RT....	Door separation profile RTTC	Touch protection RB....	Touch protection RB....	Touch protection RB....	Connection set RCT....
RMS1508	RT1501	RTTC		RB1502		
RMS1508	RT1501	RTTC		RB1502		
RMS2008	RT2001	RTTC		RB2002		
RMS2008	RT2001	RTTC		RB2002		
RMS3008	RT3001	RTTC		RB3002		
RMS3008	RT3001	RTTC		RB3002		
	RT1501	RTTC				
	RT2001	RTTC				
	RT3001	RTTC				
	RT4001	RTTC				
	RT6001	RTTC				
	RT8001	RTTC				
	RT9001	RTTC				
	RT1506	RTTC				

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

TR12 – TR40 Compartments

Quick selection table for other compartments

	Version		Rated current I _e (A)	Height (mm)
	Compartment with busbar contact set	3	160	150
		4	160	150
		3	320	200
		4	320	200
		3	630	300
		4	630	300
	Compartment without busbar contact set			150
				200
				300
				400
				600
				800
				900
	Compartment prepared for instruments 96 mm x 96 mm			150

TR12 – TR40 Compartments

Quick selection table for other compartments

				
Required for form 4b	Required for form 4b Optional selection for left and right segregation			
Horizontal segregation RTW	Vertical segregation RTW	Vertical segregation RTW	Vertical segregation RTW	Vertical segregation RTW
RTW1	RTW1501	RTW1502	RTW1503	RTW1504
RTW1	RTW1501	RTW1502	RTW1503	RTW1504
RTW1	RTW2001	RTW2002	RTW2003	RTW2004
RTW1	RTW2001	RTW2002	RTW2003	RTW2004
RTW1	RTW3001	RTW3002	RTW3003	RTW3004
RTW1	RTW3001	RTW3002	RTW3003	RTW3004
RTW1	RTW1501	RTW1502	RTW1503	RTW1504
RTW1	RTW2001	RTW2002	RTW2003	RTW2004
RTW1	RTW3001	RTW3002	RTW3003	RTW3004
RTW1	RTW4001			RTW4004
RTW1	RTW6001			RTW6004
RTW1	RTW8001			RTW8004
RTW1	RTW9001			RTW9004
RTW1	RTW1501	RTW1502	RTW1503	RTW1504

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

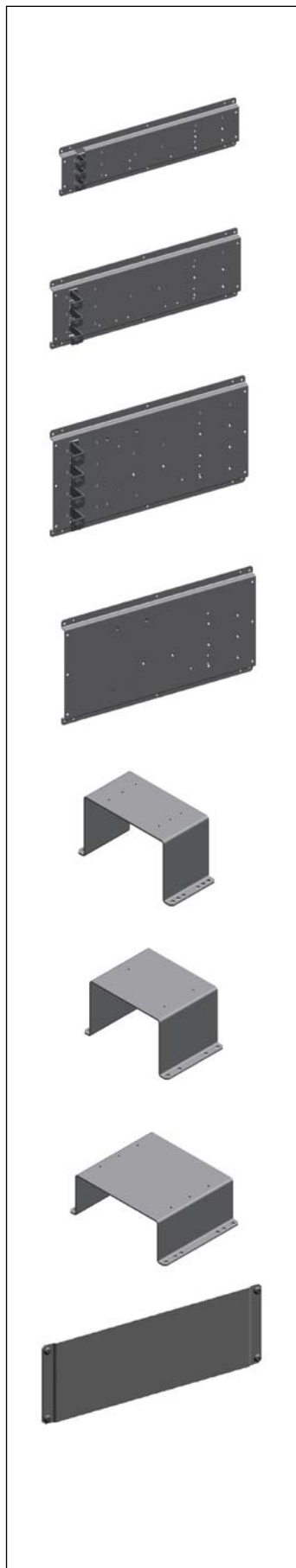
TR40 - 4000 A
3pole

Compartments

Accessoires

TR12 - TR40 Compartments

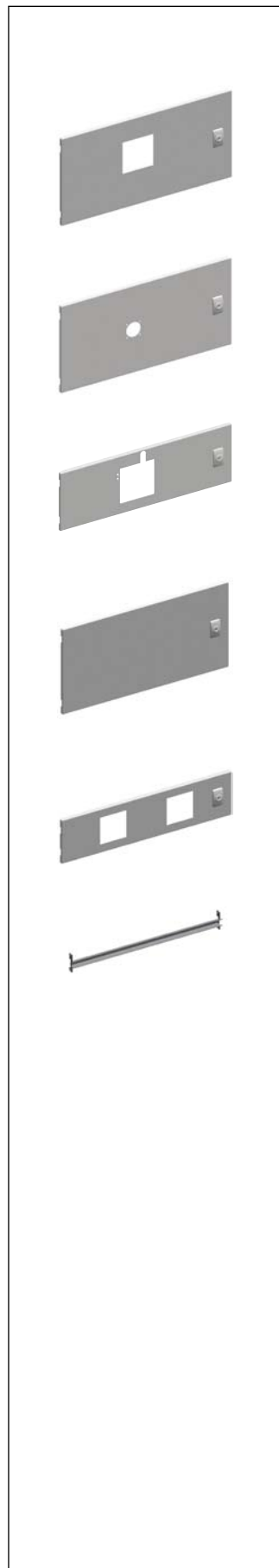
Mounting plates, mounting bases



Article	Type	Ord. No. +
Mounting plate with busbar contact set, I_n max. 160 A		
Height: 150 mm		
3pole	RM1502	66320
4pole	RM1503	66321
Mounting plate with busbar contact set, I_n max. 320 A		
Height: 200 mm		
3pole	RM2002	66323
4pole	RM2003	66324
Mounting plate with busbar contact set, I_n max. 630 A		
Height: 300 mm		
3pole	RM3002	66326
4pole	RM3003	66327
Mounting plate without busbar contact set,		
Height: 150 mm	RM1501	66319
Height: 200 mm	RM2001	66322
Height: 300 mm	RM3001	66325
Height: 400 mm	RM4001	66441
Height: 600 mm	RM6001	66442
Height: 800 mm	RM8001	66443
Height: 900 mm	RM9001	66444
Mounting base for circuit breaker Tmax T1 / T2		
Compartment height: 150 mm		
T1/T2, fixed with lever operating,	3- / 4pole	RMS1501
T1/T2, fixed with rotary handle operating mechanism,	3- / 4pole	RMS1502
T1/T2, fixed with lever operating or plug in with lever operating,	3- / 4pole	RMS1503
Mounting base for circuit breaker Tmax T3 / T4		
Compartment height: 200 mm		
T3, fixed with lever operating,	3- / 4pole	RMS2001
T3, fixed with rotary handle,	3- / 4pole	RMS2002
T3, fixed with solenoid operator or plug in with lever operating,	3- / 4pole	RMS2003
T4, fixed with rotary handle,	3- / 4pole	RMS2004
T4, fixed with lever operating,	3- / 4pole	RMS2005
T4, plug in with lever operating	3- / 4pole	RMS2006
Mounting base for circuit breaker Tmax T5		
Compartment height: 300 mm		
T5, fixed with lever operating,	3- / 4pole	RMS3001
T4/T5, fixed with rotary handle or withdrawable (uo to 400 A),	3- / 4pole	RMS3002
T5, plug in with lever operating (up to 400 A),	3- / 4pole	RMS3003
Mounting base universal		
Compartment height: 150 mm	RMS1508	66503
Compartment height: 200 mm	RMS2008	66504
Compartment height: 300 mm	RMS3008	66505

TR12 - TR40 Compartments

Compartment doors, door separation profile



Article	Type	Ord. No. ▶
Compartment door for lever operating, fixed		
Height: 150 mm for Tmax T1	3- / 4pole	RT1502 66307
Height: 150 mm for Tmax T2	3- / 4pole	RT1504 66309
Height: 200 mm for Tmax T3	3- / 4pole	RT2002 66312
Height: 200 mm for Tmax T4	3- / 4pole	RT2004 66314
Height: 300 mm for Tmax T5	3- / 4pole	RT3002 66317
Compartment door for rotary handle operating mechanism, fixed		
Height: 150 mm for Tmax T1	3- / 4pole	RT1503 66308
Height: 150 mm for Tmax T2	3- / 4pole	RT1505 66310
Height: 200 mm for Tmax T3	3- / 4pole	RT2003 66313
Height: 200 mm for Tmax T4	3- / 4pole	RT2005 66315
Height: 300 mm for Tmax T5	3- / 4pole	RT3003 66318
Compartment door for lever operating, withdrawable		
Height: 300 mm for Tmax T4	3- / 4pole	RT3004 66362
Height: 300 mm for Tmax T5	3- / 4pole	RT3007 66515
Compartment door		
Height: 150 mm		RT1501 66306
Height: 200 mm		RT2001 66311
Height: 300 mm		RT3001 66316
Height: 400 mm		RT4001 66451
Height: 600 mm		RT6001 66452
Height: 800 mm		RT8001 66453
Height: 900 mm		RT9001 66454
Compartment door for instruments, 96 mm x 96 mm		
Height: 150 mm		RT1506 66447
Door separation profile		
For assembly between compartment doors	RTTC	66358

TR12 - TR40 Compartments

Internal form of separation, touch protection



Article	Type	Ord. No. +
Horizontal Segregation		
Between device area and device area (one partition is required per compartment)	RTW1	66337
Horizontal Segregation set		
For the top and the bottom compartment (One set required per cabinet)	RTW2P2	66296
Vertical Segregation between device area and cable area		
Closed		
Height: 150 mm	RTW1501	66328
Height: 200 mm	RTW2001	66331
Height: 300 mm	RTW3001	66334
Height: 400 mm	RTW4001	66455
Height: 600 mm	RTW6001	66456
Height: 800 mm	RTW8001	66457
Height: 900 mm	RTW9001	66458
Vertical Segregation between device area and cable area		
With cable support sleeves for small cable diameters		
Height: 150 mm	RTW1502	66329
Height: 200 mm	RTW2002	66332
Height: 300 mm	RTW3002	66335
Vertical Segregation between device area and cable area		
With cable support sleeves for big cable diameters		
Height: 150 mm	RTW1503	66330
Height: 200 mm	RTW2003	66333
Height: 300 mm	RTW3003	66336
Vertical Segregation between device area and cable area		
With plastic insert for optional cable entry		
Height: 150 mm	RTW1504	46407
Height: 200 mm	RTW2004	46408
Height: 300 mm	RTW3004	46409
Height: 400 mm	RTW4004	66459
Height: 600 mm	RTW6004	66460
Height: 800 mm	RTW8004	66461
Height: 900 mm	RTW9004	66462
Touch protection made of transparent plastic		
For the incoming side of the breaker		
Compartment height: 150 mm	Type T1/T2	RB1501 66349
Compartment height: 200 mm	T3/T4	RB2001 66350
Compartment height: 300 mm	T4/T5	RB3001 66351
Touch protection made of transparent plastic		
(universal for mounting plate with busbar contact set)		
Compartment height: 150 mm	RB1502	66463
Compartment height: 200 mm	RB2002	66464
Compartment height: 300 mm	RB3002	66465
Touch protection made of transparent plastic		
Prepared for form 2b in combination with a complete door type RT48L2/RT218		
Tmax T1 / T2, 3pole	Compartment height: 150 mm	RB1505 62670
Tmax T1 / T2, 4pole	Compartment height: 150 mm	RB1506 62671
Tmax T3, 3pole	Compartment height: 200 mm	RB2005 62672
Tmax T3, 4pole	Compartment height: 200 mm	RB2006 62673
Tmax T4, 3pole	Compartment height: 200 mm	RB2007 62674
Tmax T4, 4pole	Compartment height: 200 mm	RB2008 62675
Tmax T5, 3pole	Compartment height: 300 mm	RB3006 62676
Tmax T5, 4pole	Compartment height: 300 mm	RB3007 62677

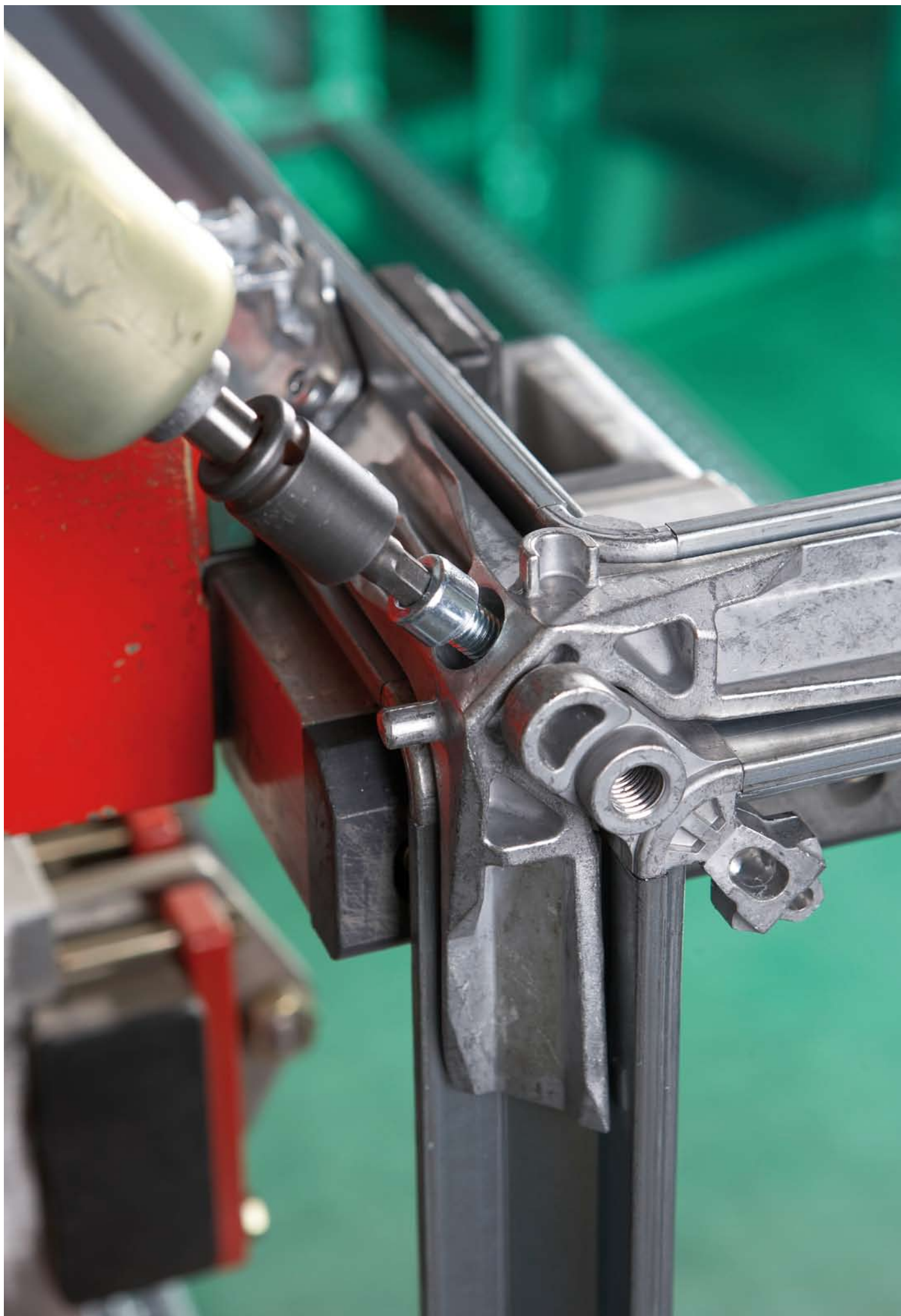
TR12 - TR40 Compartments

Connection sets for Tmax breakers^{*6}



Article					Type	Ord. No. ▶
Version	Operating mechanism	Poles	Max. rated current (A)	Height (mm)		
Connection set for Tmax T1						
Fixed	Lever operating	3	160	150	RCT113	66174
Fixed	Lever operating	4	160	150	RCT114	66155
Fixed	Rotary handle on the door	3	160	150	RCT123	66175
Fixed	Rotary handle on the door	4	160	150	RCT124	66156
Fixed	Solenoid operator	3	160	150	RCT133	66176
Fixed	Solenoid operator	4	160	150	RCT134	66157
Connection set for Tmax T2						
Fixed	Lever operating	3	160	150	RCT213	66177
Fixed	Lever operating	4	160	150	RCT214	66158
Fixed	Rotary handle on the door	3	160	150	RCT223	66178
Fixed	Rotary handle on the door	4	160	150	RCT224	66159
Fixed	Solenoid operator	3	160	150	RCT233	66179
Fixed	Solenoid operator	4	160	150	RCT234	66160
Plug in	Lever operating	3	160	150	RCT243	66180
Plug in	Lever operating	4	160	150	RCT244	66161
Connection set for Tmax T3						
Fixed	Lever operating	3	250	200	RCT313	66181
Fixed	Lever operating	4	250	200	RCT314	66162
Fixed	Rotary handle on the door	3	250	200	RCT323	66182
Fixed	Rotary handle on the door	4	250	200	RCT324	66163
Fixed	Solenoid operator	3	250	200	RCT333	66183
Fixed	Solenoid operator	4	250	200	RCT334	66164
Plug in	Lever operating	3	250	200	RCT343	66184
Plug in	Lever operating	4	250	200	RCT344	66165
Connection set for Tmax T4						
Fixed	Lever operating	3	320	200	RCT413	66185
Fixed	Lever operating	4	320	200	RCT414	66166
Fixed	Rotary handle on the door	3	320	200	RCT423	66186
Fixed	Rotary handle on the door	4	320	200	RCT424	66167
Plug in	Lever operating	3	320	200	RCT433	66187
Plug in	Lever operating	4	320	200	RCT434	66168
Withdrawable	Lever operating	3	320	200	RCT443	66188
Withdrawable	Lever operating	4	320	200	RCT444	66169
Connection set for Tmax T5						
Fixed	Lever operating	3	630	300	RCT513	66189
Fixed	Lever operating	4	630	300	RCT514	66170
Fixed	Rotary handle on the door	3	630	300	RCT533	66191
Fixed	Rotary handle on the door	4	630	300	RCT524	66171
Plug in	Lever operating	3	400	300	RCT553	66193
Plug in	Lever operating	4	400	300	RCT534	66172
Withdrawable	Lever operating	3	400	300	RCT553	66193
Withdrawable	Lever operating	4	400	300	RCT534	66172

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



TR12 – TR40 Mounting parts

Overview

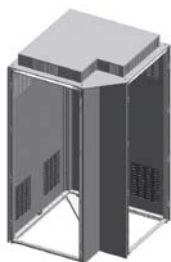
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TR12 - TR40 Mounting parts

TriLine® switchgear cabinet frames



Article						Type	Ord. No. +
TriLine® switchgear cabinet frame, overall height 8, depth 625 mm							
Rear wall closed							
Height	x	Width	x	Depth			
1913 mm	x			489 mm	x	625 mm	11/8RG6 45692
1913 mm	x	614 mm	x	625 mm			2/8RG6 45662
1913 mm	x	740 mm	x	625 mm			21/8RG6 66204
1913 mm	x	864 mm	x	625 mm			3/8RG6 45663
1913 mm	x	1114 mm	x	625 mm			4/8RG6 45664
TriLine® switchgear cabinet frame, overall height 8, depth 825 mm							
Rear wall with ventilation apertures							
Height	x	Width	x	Depth			
1913 mm	x	614 mm	x	825 mm			2/8RG8L 45682
1913 mm	x	740 mm	x	825 mm			21/8RG8L 66205
1913 mm	x	864 mm	x	825 mm			3/8RG8L 45683
1913 mm	x	1114 mm	x	825 mm			4/8RG8L 45684
TriLine® corner section, overall height 8, depth 625 mm							
Rear wall closed							
Top plate / bottom plate closed							
Height	x	Width	x	Depth			
1913 mm	x	848 mm	x	848 mm			E8R61 66809
TriLine® corner section, overall height 8, depth 825 mm							
Rear wall with ventilation apertures							
Top plate with ventilation apertures							
Height	x	Width	x	Depth			
2033 mm	x	1114 mm	x	1114 mm			E8R81L 45691

TR12 - TR40 Mounting parts

TriLine® side walls



Article	Type	Ord. No. ▶
---------	------	------------

Side walls

2 pcs.
For cabinet width 625 mm
For cabinet width 825 mm

RSW86P2
RSW88P2

45822
45823

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

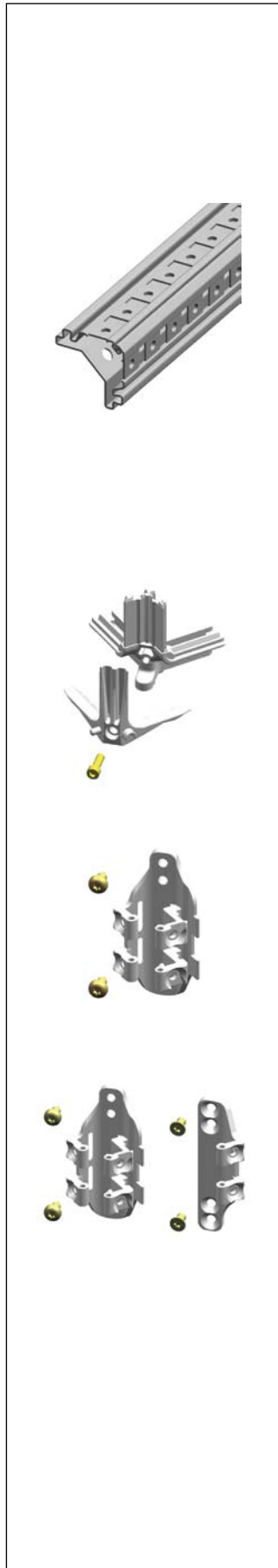
Compartments

Accessories

TR12 - TR40 Mounting parts

TriLine® cabinet frame parts

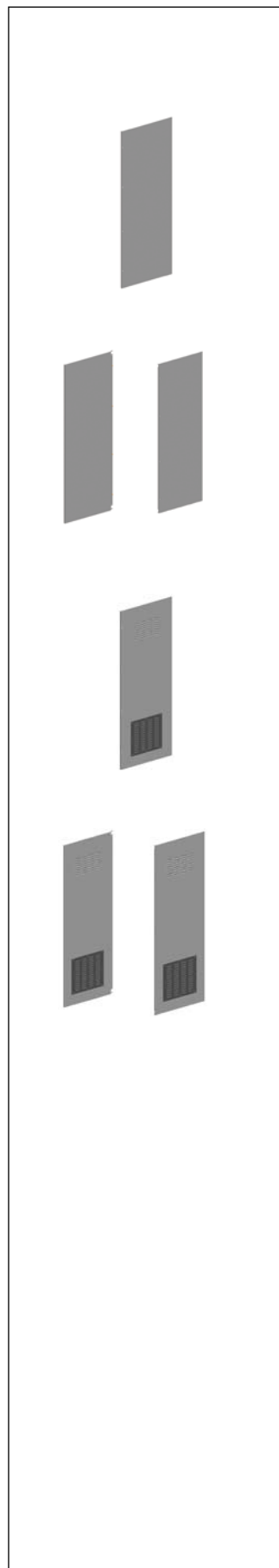
Flatpacks



Article	Type	Ord. No. +
TriLine® cabinet frame profiles The profiles are packed with 4 profiles per flatpack. Per cabinet frame 3 profile flatpacks are required. Height, width and depth profiles respectively. In addition a flatpack with corner pieces, and a flatpack with hinges are required.		
Width profiles: 1,5-panels wide 2-panels wide 2,5-panels wide 3-panels wide 4-panels wide	RPB11P4 RPB2P4 RPB21P4 RPB3P4 RPB4P4	46933 46772 46773 46774 46775
Depth profiles: Depth 6 Depth 8	RPB2P4 RPT8P4	46772 46781
Height profiles: Overall height 8	RPH8P4	46777
TriLine® cabinet corner pieces 8 inner and 8 outer corner pieces including the fastening screws. Flatpack for one cabinet frame.	RZ200	46782
Hinges for standard doors 16 hinges including the fastening screws. Flatpack for one cabinet frame.	RZ201	46783
Hinges, and fixing for side walls 8 hinges for the rear of the cabinet, and 8 fixing parts (required to assemble the side walls, because the standard hinges can not be assembled in the front when using hinges for sectional doors). Fastening screws are included. Flatpack for one cabinet frame.	RZ202	46784

TR12 - TR40 Mounting parts

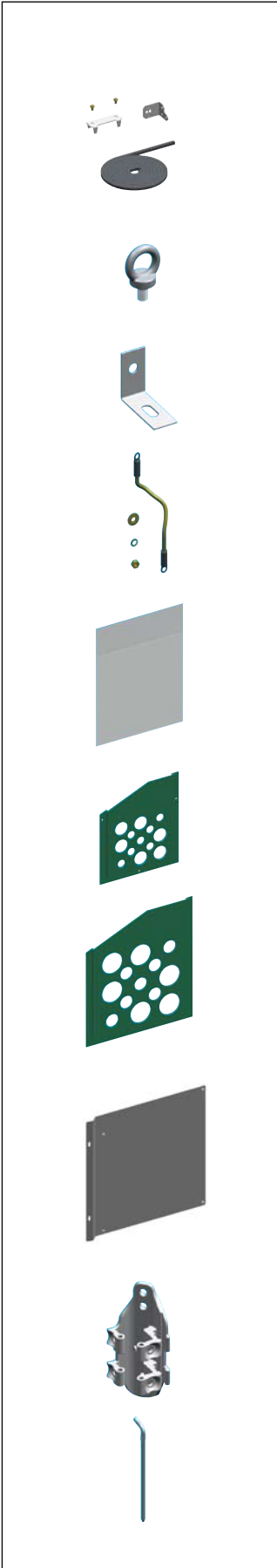
TriLine® rear walls



Article	Type	Ord. No. ▶
Rear walls for 1250 A up to 2500 A MBB > TR12 - TR25		
Overall height 8 for cabinet frames		
1,5-panels wide	RRW118	46935
2-panels wide	RRW28	46512
2,5-panels wide	RRW218	46594
3-panels wide	RRW38	46513
4-panels wide, left	RRW48L	46514
4-panels wide, right	RRW48R	46515
Rear walls for 3500 A up to 4000 A MBB > TR35 – TR40		
Overall height 8 for cabinet frames		
2-panels wide	RRW28L	46593
2,5-panels wide	RRW218L	46594
3-panels wide	RRW38L	46595
4 panels wide, left	RRW48LL	46596
4 panels wide, right	RRW48RL	46597

TR12 - TR40 Mounting parts

Assembly parts and accessories

	Article	Type	Ord. No. +
	Connection set for the mechanical combination of cabinets in series with sealing strip, for cabinets with segregation wall type RTW864 or RTW887 between cabinets	RZ148	46300
	Transportation lugs For crane handling 4 pcs.	RZ11P4	45995
	External fastening bracket For securing cabinets to the wall 2 pcs.	RZ32P2	45996
	Earthing set For doors, rear walls, side walls and top plates	RZ36	46013
	Circuit diagram pocket DIN A4 Adhesive with transparent cover 1 pcs. 10 pcs.	ZA6 ZA6P10	38227 62380
	Circuit diagram pocket DIN A5 adhesive 1 pcs. 10 pcs.	ZA5 ZA5P10	38228 62382
	Circuit diagram pocket DIN A4 adhesive 1 pcs. 10 pcs.	ZA13 ZA13P10	38233 62381
	Fixing bracket for circuit diagram pocket DIN A4 (ZA13) DIN A5 (ZA5)	ZA123 ZA125	38471 38472
	Hinge (Spare part) Door opening angle 135° with fastening material 4 pcs.	RZ8P4	45992
	Hinge pin (Spare part) Can also be used for joining cabinets during workshop assembly 4 pcs.	RZ34P4	46009

TR12 - TR40 Mounting parts

Plinth and plinth assembly parts

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

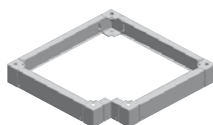
TR35 - 3500 A
4pole

TR40 - 4000 A
3pole

Compartments

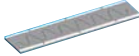
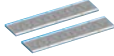
Accessories

Article	Type	Ord. No. ▶
Plinth with ventilation apertures Hight: 100 mm Color: RAL 7005 front, rear and side panels removable		
Plinth for cabinet depth 625 mm 1,5-panel wide 2-panels wide 2,5-panels wide 3-panels wide 4-panels wide		
	RSR116L	46936
	RSR26L	66800
	RSR216L	66281
	RSR36L	66801
	RSR46L	66802
Plinth for cabinet depth 825 mm 2-panels wide 2,5-panels wide 3-panels wide 4-panels wide		
	RSR28L	66804
	RSR218L	66282
	RSR38L	66803
	RSR48L	66805
Plinth for corner sections Hight: 100 mm Color: RAL 7005 Front, rear and side panels removable Plinth for cabinet depth: 625 mm Plinth for cabinet depth: 825 mm		
	RSRE61	66810
	RSRE81	46440
Routing plinth connector To screw two plinths together, one above the other 4 pcs.		
	RZ5P4	46008
Floor fastening for plinth For securing the plinth to the floor 4 pcs.		
	RZ3P4	46006
Level adjustment for plinth 4 pcs.		
	RZ4P4	46007
Mounting bracket to assemble the cable fastening rail in the plinth 2 pcs.		
	RZ35P2	46010
Cable fastening rail for plinth 1-panel wide 2-panels wide 3-panels wide 4-panels wide		
	RZB110	46039
	RZB210	46040
	RZB310	46041
	RZB410	46042



TR12 - TR40 Mounting parts

Bottom plates and accessories

	Article	Type	Ord. No. +
      	Bottom plate with ventilation apertures (without cable entry) For cabinet type: 2/8RG6 21/8RG6 3/8RG6 21/8RG8L	RB26L RB216L RB36L RB218L	46243 66202 46244 66203
	Bottom plate with flange openings and ventilation apertures For cabinet type: 11/8RG6 2/8RG6 3/8RG6	RB116LS RB26LS RB36LS	45764 46240 46241
	Microcellular rubber sinusoidal-flange 1,5-panel wide for bottom plate RB116LS 2-panels wide for bottom plate RB26LS 3-panels wide for bottom plate RB36LS	RZ68 RZ65 RZ66	46946 46225 46226
	Aluminium flange plate, closed 1,5-panel wide for bottom plate RB116LS	RZF20	46948
	Aluminium flange plate with cable support sleeves 14 - 68 mm 1,5-panel wide for bottom plate RB116LS (3 cable sleeves) 2-panels wide for bottom plate RB26LS (4 cable sleeves) 3-panels wide for bottom plate RB36LS (6 cable sleeves)	RZF21 RZF12 RZF13	46949 46615 46616
	Base plate with flange openings and ventilation apertures For cabinet type: 4/8RG6	RB46LS	46242
	Microcellular rubber sinusoidal-flange 4-panels wide for bottom plate RB46LS (2 pcs.)	RZ67P2	46227

TR12 - TR40 Mounting parts

Bottom plates and accessories

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

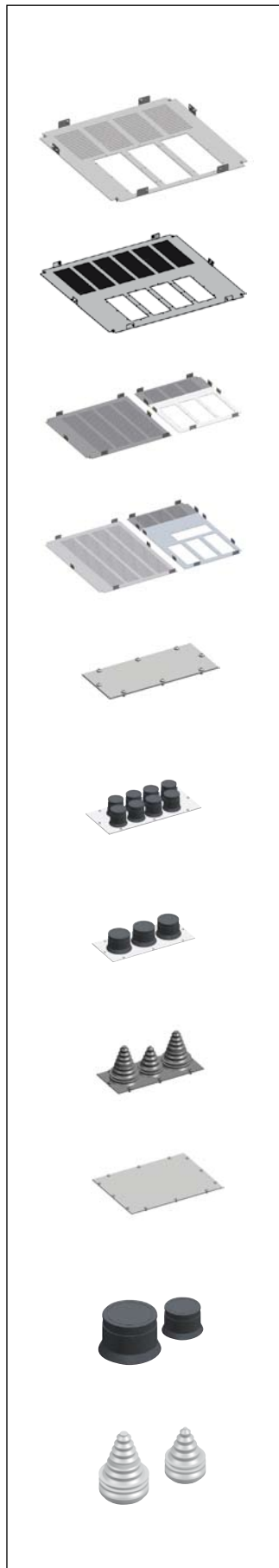
TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

TR40 - 4000 A
3pole

Compartments

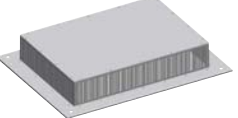
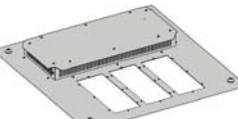
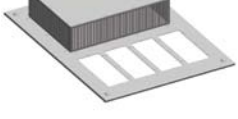
Accessories



Article	Type	Ord. No. ▶
Bottom plate with flange openings and ventilation apertures For cabinet type: 2/8RG6 3/8RG6	RB261L RB361L	66398 66400
Bottom plate with flange openings and ventilation apertures For cabinet type: 2/8RG8 3/8RG8	RB281L RB381L	66399 66401
Bottom plate with flange openings and ventilation apertures For cabinet type: 4/8RG6	RB461L	66275
Bottom plate with flange openings and ventilation apertures For cabinet type: 4/8RG8	RB481L	66276
Aluminium flange plate, closed For compartment sections or cable sections	RZF1	66832
Aluminium flange plate with 8 cable support sleeves ø 10 – 34 mm with cable strain relief	RZF2	66833
Aluminium flange plate with 3 cable support sleeves ø 18 – 54 mm with cable strain relief	RZF3	66834
Aluminium flange plate with 3 cable support sleeves 2x ø 14 – 68 mm 1x ø 14 – 54 mm	RZF6	46609
Aluminium multi flange plate, closed For top or bottom plate, to close 3 flange openings (375 mm x 280 mm) For top or bottom plate, to close 4 flange openings (500 mm x 280 mm)	RZF4 RZF5	46405 46406
Cable support sleeves with cable strain relief Cable diameter ø 10 – 34 mm ø 18 – 54 mm Hole diameter ø 40,5 mm ø 63,5 mm	RZF18 RZF19	46900 46901
Cable support sleeves Cable diameter ø 14 – 54 mm ø 14 – 68 mm Hole diameter ø 60 mm ø 78 mm	RZF9 RZF10	46612 46613

TR12 - TR40 Mounting parts

Top plates and accessories

       	Article	Type	Ord. No. +
	Top plate with ventilation apertures IP30, without flange openings For cabinet type: 11/8RG6 2/8RG6 21/8RG6 3/8RG6 4/8RG6	RD116L RD26L RD216L RD36L RD46L	46934 46294 66277 46295 46296
	Top plate with ventilation apertures IP30, without flange openings For cabinet type: 2/8RG8L 21/8RG8L 3/8RG8L 4/8RG8L	RD28L RD218L RD38L RD48L	46362 66278 46363 46364
	Top plate with ventilation apertures IP30, with flange openings For cabinet type: 2/8RG6	RD261L	66379
	Top plate with ventilation apertures IP30, with flange openings For cabinet type: 3/8RG6	RD361L	66381
	Top plate with ventilation apertures IP30, with flange openings For cabinet type: 4/8RG6	RD461L	66279
	Top plate with ventilation apertures IP30, with flange openings For cabinet type: 2/8RG8	RD281L	66380
	Top plate with ventilation apertures IP30, with flange openings For cabinet type: 3/8RG8	RD381L	66382
	Top plate with ventilation apertures IP30, with flange openings For cabinet type: 4/8RG8	RD481L	66280

TR12 - TR40 Mounting parts

Top plates and accessories

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

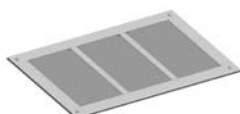
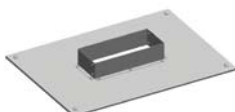
TR35 - 3500 A
4pole

TR40 - 4000 A
3pole

Compartments

Accessories

Article	Type	Ord. No. ▶
Aluminium flange plate, closed For compartment sections or cable sections	RZF1	66832
Aluminium flange plate with 8 cable support sleeves ø 10 – 34 mm with cable strain relief	RZF2	66833
Aluminium flange plate with 3 cable support sleeves ø 18 – 54 mm with cable strain relief	RZF3	66834
Aluminium flange plate with 3 cable support sleeves 2x ø 14 – 68 mm 1x ø 14 – 54 mm	RZF6	46609
Aluminium flange plate, closed For top or bottom plate, to close 3 flange openings For top or bottom plate, to close 4 flange openings	RZF4 RZF5	46405 46406
Cable support sleeves with cable strain relief Cable diameter Hole diameter ø 10 – 34 mm ø 40,5 mm ø 18 – 54 mm ø 63,5 mm	RZF18 RZF19	46900 46901
Cable support sleeves Cable diameter Hole diameter ø 14 – 54 mm ø 60 mm ø 14 – 68 mm ø 78 mm	RZF9 RZF10	46612 46613
Top plate prepared for busbar trunking systems For cabinet type: 2/8RG6 3/8RG6 3/8RG8	RD26E RD36E RD38E	46897 46898 46899
Top plate with ventilation apertures for PFC sections IP30 For cabinet type: 2/8RG6 3/8RG6 2/8RG8 3/8RG8	RD26K RD36K RD28K RD38K	46917 46918 46919 46920



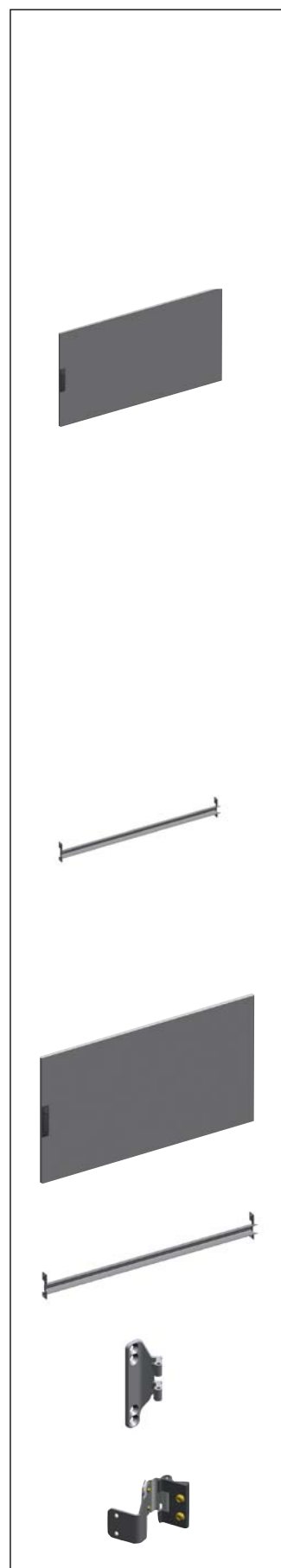
TR12 - TR40 Mounting parts

Sectional doors and accessories

Article			Type	Ord. No. +
Door type	Hight	Prepared for device type		
1,5 panel wide sectional doors, Hinged right is standard, with door locking rod and 3 mm double bit key For doors hinged left, use the top door at the bottom, and the bottom door at the top				
Top door, closed	650 mm		RT11/600T	46940
Middle door with cut-out	600 mm	ABB SACE T6 fixed	RT11/6001M	46937
	600 mm	ABB SACE T7 / X1 fixed	RT11/6002M	46938
	600 mm	ABB SACE T7 / X1 withdrawable	RT11/6003M	46939
Bottom door, closed	650 mm		RT11/600U	46941
Door separation profile For assembly between the sectional doors Supports the segregations for the internal form of separation 1,5 panel wide			RTT11	46942
2 panel wide sectional doors, Hinged right is standard, with door locking rod and 3 mm double bit key For doors hinged left, use the top door at the bottom, and the bottom door at the top				
Top door, closed	350 mm		RT2/300T	46178
	500 mm		RT2/450T	46179
	500 mm	Door with window	RT2/450TS	46208
	650 mm		RT2/600T	46180
	800 mm		RT2/750T	46181
	950 mm		RT2/900T	46182
	1250 mm		RT2/1200T	46578
Middle door, closed	300 mm		RT2/300M	46183
	450 mm		RT2/450M	46184
	600 mm		RT2/600M	46185
	750 mm		RT2/750M	46186
	900 mm		RT2/900M	46187
Middle door with cut-out	600 mm	ABB SACE S7 withdrawable	RT2/6001M	46582
	600 mm	ABB SACE S7 fixed	RT2/6002M	46583
	600 mm	ABB SACE E1 / E2	RT2/6003M	46584
	900 mm	ABB SlimLine SR	RT2/9001M	46585
	900 mm	ABB SlimLine XR	RT2/9004M	46923
Bottom door, closed	350 mm		RT2/300U	46188
	500 mm		RT2/450U	46189
	650 mm		RT2/600U	46190
	800 mm		RT2/750U	46191
	950 mm		RT2/900U	46192
	1250 mm		RT2/1200U	46579
	1400 mm		RT2/1350U	46209
Door separation profile For assembly between the sectional doors Supports the segregations for the internal form of separation 2 panels wide			RTT2	45880

TR12 - TR40 Mounting parts

Sectional doors and accessories



Article			Type	Ord. No. +
Door type	Hight	Prepared for device type		
3 panel wide sectional doors, Hinged right is standard, with door locking rod and 3 mm double bit key For doors hinged left, use the top door at the bottom, and the bottom door at the top				
Top door, closed	350 mm		RT3/300T	46193
	500 mm		RT3/450T	46194
	650 mm		RT3/600T	46195
	800 mm		RT3/750T	46196
	950 mm		RT3/900T	46197
	1250 mm		RT3/1200T	46580
Middle door, closed	300 mm		RT3/300M	46198
	450 mm		RT3/450M	46199
	600 mm		RT3/600M	46200
	750 mm		RT3/750M	46201
	900 mm		RT3/900M	46202
Middle door with cut-out	600 mm	ABB SACE E3	RT3/6001M	46588
	900 mm	ABB SlimLine SR	RT3/9001M	46589
	900 mm	ABB SlimLine XR	RT3/9004M	46924
Bottom door, closed	350 mm		RT3/300U	46203
	500 mm		RT3/450U	46204
	650 mm		RT3/600U	46205
	800 mm		RT3/750U	46206
	950 mm		RT3/900U	46207
	1250 mm		RT3/1200U	46581
Door separation profile For assembly between the sectional doors Supports the segregations for the internal form of separation 3 panels wide			RTT3	45881
4 panel wide sectional doors, Hinged right is standard, with door locking rod and 3 mm double bit key For doors hinged left, use the top door at the bottom, and the bottom door at the top				
Top door, closed	625 mm		RT4/600T	46216
Middle door, closed	600 mm		RT4/600M	46217
Middle door with cut-out	600 mm	ABB SACE E4	RT4/6001M	46592
Bottom door, closed	625 mm		RT4/600U	46218
Door separation profile For assembly between the sectional doors Supports the segregations for the internal form of separation 4 panels wide			RTT4	46432
Accessories for sectional doors Fixing part for side walls Required for the assembly of side walls in conjunction with sectional doors, as the standard hinges have to be removed. Also used for cabinet-cabinet connection.			RZ170P8	46213
180° hinge for sectional doors Door opening angle 180° With fastening material 2 pcs.			RZ54P2	46165

TR12 - TR40 Mounting parts

Doors and accessories

Article		Type	Ord. No. +
Door type	Prepared for section		
Door for cable area of outgoing sections, overall hight 8, 4 panels wide			
Hinged right, door locking rod and 3 mm double bit key			
1,5 panel wide	Compartment sections	RT48R2	46342
Door for compartment section with cable area , overall hight 8, 4 panels wide for form 2b			
Hinged left, door locking rod and 3 mm double bit key			
2,5 panels wide	Compartment section	RT48L2	46307
Door for compartment section without cable area, overall hight 8, 2,5 panels wide for form 2b			
Hinged left, door locking rod and 3 mm double bit key			
2,5 panels wide	Compartment section	RT218	46308
Door for cable section, overall hight 8 2 and 3 panels wide			
Hinged right, door locking rod and 3 mm double bit key			
2 panels wide	Cable sections	RT28	45831
3 panels wide	Cable sections	RT38	45832
180° hinge for standard doors			
With fastening material 4 pcs.			
		RZ9P4	45993



TR12 - TR40 Mounting parts

Trim profiles for outgoing sections



Article	Type	Ord. No. ▶
Prepared for:		
Horizontal trim profile for compartment section, 2,5 and 4 panels wide		
Prepared for compartment doors (included in the scope of delivery of the section)		
2 pcs. Compartments	RB6P2	66356
Horizontal trim profile for compartment section, 2,5 and 4 panels wide		
Prepared for ABB Slimline devices (included in the scope of delivery of the section)		
1 pcs. SlimLine SR, XR	RB7	64145
Vertical trim profile for compartment section, 2,5 and 4 panels wide		
Overall height 8 Compartments / SlimLine SR, XR	RB1	46343

TR12 - TR40 Mounting parts

Lock parts

	Article	Type	Ord. No.*
	Latch plate for standard and sectional doors* For double bit operating pin	ZH130 / ZH131	ZH220 45700
	Latch plate for sectional and compartment doors* For double bit operating pin	ZH130 / ZH131	ZH224 45704
	Operating pin Double bit 3 mm* Double bit 5 mm	ZH130 ZH131	60490 60491
	Operating keys Triangular 7 mm Triangular 8 mm	ZH157 ZH158	60657 60658
	Latch plate for standard and sectional doors For triangular and square operating pins and also for Daimler-Benz operating pins	ZH132 up to ZH 136 ZH137	ZH221 45701
	Latch plate for sectional and compartment doors For triangular and square operating pins and also for Daimler-Benz operating pins	ZH132 up to ZH 136 ZH137	ZH225 45705
	Operating pin Triangular 7 mm Triangular 8 mm	ZH132 ZH133	60492 60493
	Operating pin Square 6 mm Square 7 mm Square 8 mm	ZH134 ZH135 ZH136	60494 60495 60496
	Operating pin Daimler-Benz	ZH137	60497
	Operating keys Double bit 3 mm* Double bit 5 mm	ZH160 ZH161	60660 60661
	Operating keys Square 6 mm Square 7 mm Square 8 mm	ZH162 ZH163 ZH164	60662 60663 60664
	Operating keys Daimler-Benz	ZH165	60665
	Universal key Double bit 3 mm / 5 mm, triangular 8 mm Square 6 mm / 8 mm	ZH91	66091

* Included in the scope of delivery

TR12 - TR40 Mounting parts

Lock parts



Article	Type	Ord. No. ▶
Latch plate for standard and sectional doors For chrome plated T-handle and latch type handle ZH138 up to ZH141	ZH222	45702
Latch plate for compartment and sectional doors For chrome plated T-handle and latch type handle, and for lockable compartment door handle ZH138 up to ZH141 ZH237	ZH226	45706
T-handle, chrome plated Without lock	ZH138	60498
T-handle, chrome plated With lock	ZH139	60499
Latch handle, chrome plated Without lock	ZH140	60500
Latch handle, chrome plated With lock	ZH141	60501
Lockable compartment door handle With lock	ZH237	66359
Swivel handle for semi-cylinder 40 mm, with sealable cap	ZH223	45703
Dummy insert (instead of a semi-cylinder)	ZH142	60502

TR12 - TR40 Mounting parts

Internal form of separation and measurement & control mounting plates for incoming and coupler sections

	Article	Type	Ord. No. +
Example	Version:	Height:	For section with device:
MSR11/600	TriLine® measurement & control mounting plate		
	For installation in incoming, outgoing, and coupler sections For internal form of separation up to form 2b (Form 1 if used without RTW set) All the required assembly parts are included		
RTW255402	1,5 PW	600 mm	T6, T7, X1
	2 PW	450 mm	S7 / SlimLine
RTW256302	2 PW	600 mm	E2
	3 PW	450 mm	SlimLine
RTW2540021	3 PW	600 mm	E3
	4 PW	450 mm	MSR4/450
	4 PW	600 mm	MSR4/600
	TriLine® internal form of separation, form 2b		
	For installation in incoming or outgoing sections (also order the respective measurement & control mounting plate) All the required assembly parts are included		
	MBB up to 2500 A	ABB SACE	T6 lever operated fixed
	MBB up to 2500 A	ABB SACE	T7 / X1 lever operated fixed
	MBB up to 2500 A	ABB SACE	T7 / X1 withdrawable
	MBB up to 2500 A	ABB SACE	S7 fixed / withdrawable
	MBB up to 2500 A	ABB SACE	E2 fixed
	MBB up to 2500 A	ABB SACE	E2 withdrawable
	MBB up to 2500 A	ABB SACE	E3 fixed
	MBB up to 2500 A	ABB SACE	E3 withdrawable
	MBB 3500 A, 4000 A	ABB SACE	E3 withdrawable
	MBB 3500 A, 4000 A	ABB SACE	E4 withdrawable
	TriLine® internal form of separation, form 2b		
	For installation in incoming sections for busbar trunking systems All the required assembly parts are included		
	MBB 2500 A	ABB SACE	E2 withdrawable
	MBB 2500 A	ABB SACE	E3 withdrawable
	MBB 3500 A	ABB SACE	E4 withdrawable
	TriLine® internal form of separation, form 2b		
	For installation in coupler sections (also order the respective measurement & control mounting plate) All the required assembly parts are included		
	MBB up to 2500 A	ABB SACE	E2 fixed
	MBB up to 2500 A	ABB SACE	E2 withdrawable
	MBB up to 2500 A	ABB SACE	E3 fixed
	MBB up to 2500 A	ABB SACE	E3 withdrawable
	MBB 3500 A, 4000 A	ABB SACE	E4 withdrawable

TR12 - TR40 Mounting parts

Internal form of separation for outgoing, offset, cable sections
TriLine® segregation walls

Article		Type	Ord. No. *
Version:		For section with device:	
TriLine® internal form of separation, form 2b			
For installation in outgoing sections			
All the required assembly parts are included			
RTW2540021	MBB up to 2500 A Type ABB SlimLine SR / XR, 2 panel wide *1	RTW2540021	47024
	MBB up to 2500 A Type ABB SlimLine SR / XR, 3 panel wide *1	RTW2541021	47025
	MBB 3500 A Type ABB SlimLine SR / XR, 3 panel wide	RTW3541021	47026
	MBB 4000 A Type ABB SlimLine SR / XR, 3 panel wide	RTW4041021	47027
RTW355202	MBB up to 2500 A Compartments / Type ABB SlimLine SR,XR 4 panel wide	RTW255202	66696
	MBB up to 2500 A Compartments / Type ABB SlimLine SR,XR 2,5 panel wide	RTW255302	66697
	MBB 3500 A Compartments / Type ABB SlimLine SR,XR 4 panel wide	RTW355202	66698
	MBB 3500 A Compartments / Type ABB SlimLine SR,XR 2,5 panel wide	RTW355302	66699
	MBB 4000 A Compartments / Type ABB SlimLine SR,XR 4 panel wide	RTW405202	47030
	MBB 4000 A Compartments / Type ABB SlimLine SR,XR 2,5 panel wide	RTW405302	47031
TriLine® internal form of separation, form 2b			
For installation in offset sections			
All the required assembly parts are included			
RTW2550021	MBB 2500 A / 3500 A * / 4000 A, 2 panel wide	RTW2550021	47028
TriLine® internal form of separation, form 2b			
For installation in cable sections			
All the required assembly parts are included			
RTW254802	MBB up to 3500 A, 2 panel wide	RTW254802	66396
	MBB up to 3500 A, 3 panel wide	RTW254902	66397
	MBB up to 4000 A, 2 panel wide	RTW404802	46878
	MBB up to 4000 A, 3 panel wide	RTW404902	46879
TriLine® segregation wall for cabinet-cabinet separation			
With removeable service covers for better MBB access			
Included in the scope of delivery of the complete section			
All the required assembly parts are included			
RTW864	MBB up to 2500 A cabinet depth 625 mm	RTW864	47014
	MBB 3500 A / 4000 A cabinet depth 825 mm	RTW887	47015
* Additional cross members are required for assembly (2 profiles RZULH8 and 4 brackets RZ91)			
*1 Use of the measurement & control mounting plate optional			

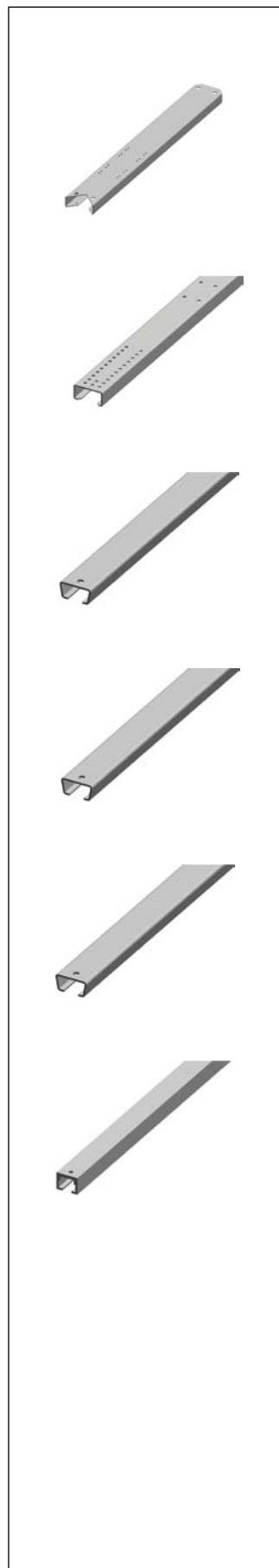
TR12 - TR40 Mounting parts

Profiles, universal cross members

	Article	Type	Ord. No. +
	Universal cross members		
	Width universal cross member 50 x 25 mm with holes, pitch 12,5 mm		
	For mounting between cabinet profiles		
	For cabinet width 1	RZULB1	46058
	For cabinet width 2	RZULB2	46059
	Depth universal cross member 50 x 25 mm with holes, pitch 12,5 mm		
	For mounting between cabinet profiles		
	For cabinet depth 3	RZULT3	46054
	For cabinet depth 4	RZULT4	46055
	For cabinet depth 6	RZULT6	46056
	Height universal cross member 50 x 25 mm with holes, pitch 12,5 mm		
	For mounting between cabinet profiles		
	For cabinet height 8	RZULH8	46063
	Height universal cross member 50 x 25 mm with holes, pitch 12,5 mm		
	For mounting between cabinet profiles		
	For cabinet height 8, for use in compartment sections for assembly of DBB holders and the mounting plates (one extra hole at the top and bottom, compared to RZULH8)	RZULH81	66352
	Universal cross member 50 x 25 mm with holes, pitch 12,5 mm		
	Special length:		
	344 mm	RZUL1	46293
	294 mm	RZUL2	46430
	263 mm	RZUL3	46431
	168 mm	RZUL4	46463

TR12 - TR40 Mounting parts

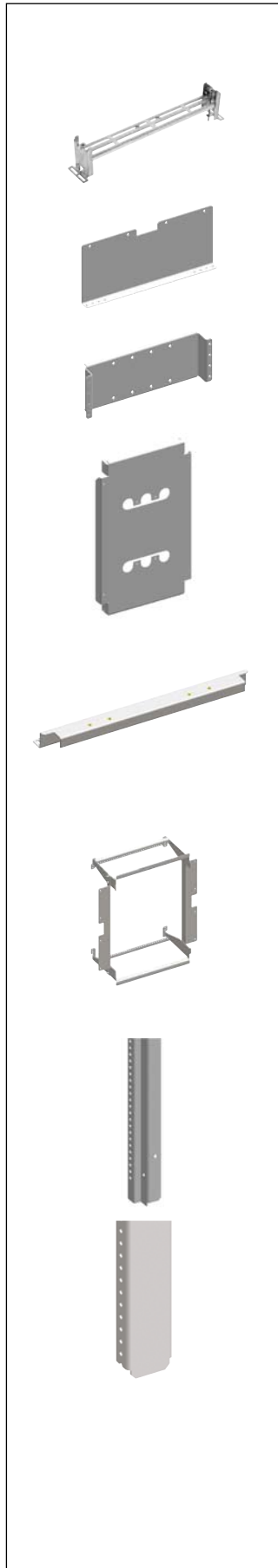
Profiles, cable fastening rails and others



Article	Type	Ord. No. ▶
Cross member, diagonal For corner section For corner section	Depth 625 mm Depth 825 mm RZ92 RZ114	46276 46414
Height cross member For corner section, cabinet height 8	RZ125	46454
Cable fastening rail Width profile rail 1,5 panel wide 2 panels wide 3 panels wide 4 panels wide	RZBA1110 RZBA210 RZBA310 RZBA410	46947 46050 46051 46052
Cable fastening rail Depth profile rail For TR12320 For TR354201 and TR354501	RZ121 RZ123	46298 46423
Cable fastening rail Depth profile rail For TR40420 and TR40450	RZTA310	46045
Mounting profile rail For ZX156	RZB231	46433

TR12 - TR40 Mounting parts

Mounting parts for devices



Article	Type	Ord. No. +
For breaker S7		
Mounting member for breaker type: S7 fixed	2 panels wide	ZT29 68729
Sheet steel support For the mounting member type ZT29 (used for S7 fixed)		RZ127 46291
Mounting plate for breaker type: S7 withdrawable	2 panels wide	RZ128 46292
For breaker T6, T7, X1		
Mounting plate for breaker type: T6 fixed	1,5 panel wide	RZ157 46950
T7 fixed	1,5 panel wide	RZ158 46951
T7/X1 withdrawable	1,5 panel wide	RZ159 46952
For breaker E1 - E4		
Mounting cross member for breaker type: E2 fixed	2 panels wide	RZ98 46282
E2 withdrawable	2 panels wide	RZ100 46284
E3 fixed	3 panels wide	RZ99 46283
E3 withdrawable	3 panels wide	RZ101 46285
E4 withdrawable	4 panels wide	RZ104 46394
For outgoing sections		
Mounting console for vertical assembly of: ABB SlimLine SR	2 panels wide 3 panels wide	RZ106 46396 RZ107 46397
ABB SlimLine XR	2 panels wide 3 panels wide	RZ1061 46925 RZ1071 46926
Vertical device support profile left / right For compartment sections Used on the left and right in 2,5 panel wide sections Used on the left in 4 panel wide sections	2,5 / 4 panels wide	RZ135 66354
Vertical device support profile right For compartment sections Used on the right in 4 panel wide sections	4-panels wide	RZ134 66353

TR12 - TR40 Mounting parts

Mounting brackets

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

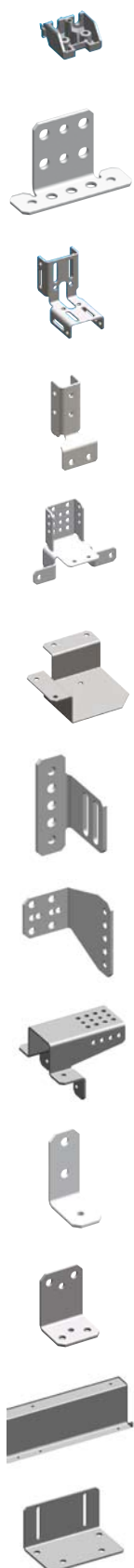
TR35 - 3500 A
4pole

TR40 - 4000 A
3pole

Compartments

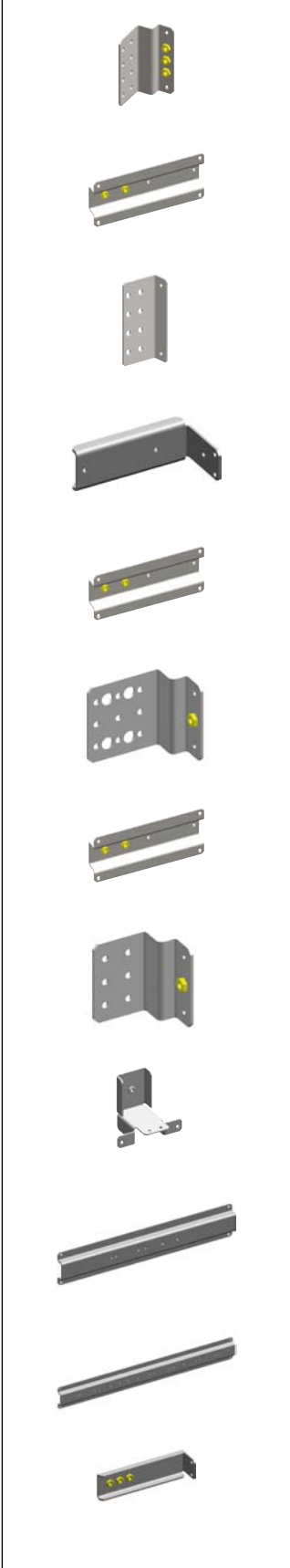
Accessories

Article	Type	Ord. No. ▶
Cross member holder For assembling cross members between the cabinet frame profiles 2 pcs. 20 pcs.	RZ6P2 RZ6P20	45990 46011
Mounting bracket For assembling cross members between the cabinet frame profiles 2 pcs. 20 pcs.	RZ7P2 RZ7P20	45991 46012
Mounting bracket For mounting universal cross members 50 x 25 mm through 90° 2 pcs. 20 pcs.	RZ39P2 RZ39P20	46017 46018
Mounting bracket For assembly of the vertical device support profile RZ134 in outgoing compartment section 4PW	RZ85	46269
Mounting bracket For assembly of the vertical profiles RZULH8, which support the MBB holders	RZ91	46275
Mounting bracket For corner sections	RZ93	46277
Mounting bracket 2 pcs. For stepless positioning of cross members	RZ95P2	46279
Mounting bracket Generally used for cross members between the cabinet frame and the MBB holder supports (Due to the offset, RZ7 is used on one side of the cross member, and RZ102 on the other side)	RZ102	46286
Mounting bracket, heavy duty For assembling the MBB holder supports at the top in TR35 and TR40 applications	RZ113	46413
Mounting bracket for cable fastening rails 2 pcs.	RZ122P2	46297
Mounting bracket for cable fastening rails	RZ129	46299
Mounting bracket, stainless steel (V2A) For MBB holder 4000 A	RZ130	46455
Mounting bracket For assembly of busbar trunking systems	RZ141	46906



TR12 - TR40 Mounting parts

Brackets for N / PE busbar system

	Article	Type	Ord. No. +
	N system		
	Mounting bracket For N busbar holder ZX561 or ZX563 Cu busbars horizontal	RZ80	46256
	Mounting bracket For N busbar holder ZX561 Cu busbars vertical	RZ81	46257
	Mounting bracket For N busbar holder ZX561 Cu busbars horizontal	RZ82	46258
	Mounting bracket For N busbar holder ZX561 Cu busbars vertical	RZ83	46259
	Mounting bracket For N busbar holder ZX561 Cu busbars vertical	RZ111	46411
	Mounting bracket For N busbar holder ZX561 Cu busbars horizontal	RZ112	46412
	Mounting bracket For N busbar holder ZX561 Cu busbars vertical	RZ120	46452
	Mounting bracket For N busbar holder ZX563 Cu busbars horizontal	RZ124	46453
	Mounting bracket For PE busbars Cu busbars horizontal 4000 A	RZ119	46451
	Mounting bracket In the cable section 2 panels wide Cu busbars vertical	RZ137	66197
	Mounting bracket In the cable section 3 panels wide Cu busbars vertical	RZ138	66198
	Mounting bracket For rerouting the PE busbars from the busbar trunking system to the cable area Cu busbars vertical	RZ142	46907

TR12 - TR40 Mounting parts

Mounting parts for distribution and connection busbar system

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

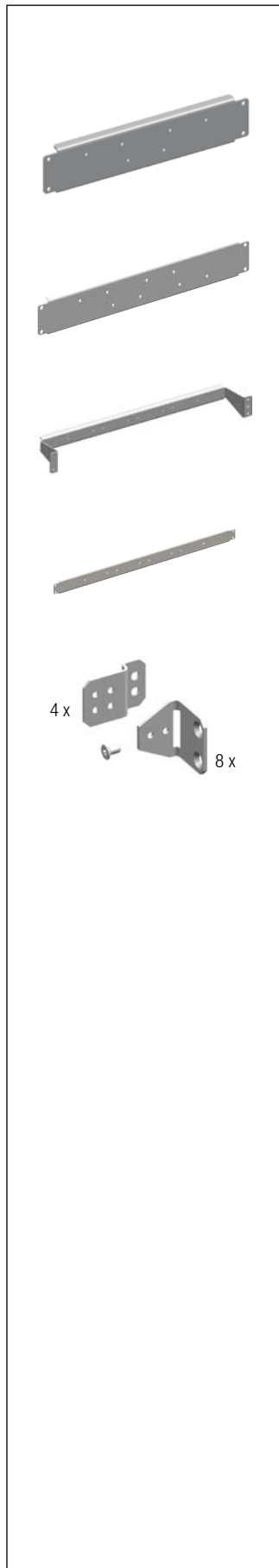
TR25 - 2500 A
4pole

TR35 - 3500 A
4pole

TR40 - 4000 A
3pole

Compartments

Accessories



Article	Type	Ord. No. ▶
Mounting cross member To support the connection busbar system Incoming section T6, T7, X1	1,5 panel wide RZ160	46973
Mounting cross member To support the connection busbar system Incoming section S7	2 panels wide RZ126	46290
Mounting cross member To support the distribution busbar system Incoming section E3 Incoming section E4	3 panels wide 4 panels wide RZ131 RZ132	46456 46457
Mounting cross member To support the connection busbar system Incoming section E2 Incoming section E3 Incoming section E4	2 panels wide 3 panels wide 4 panels wide RZ86 RZ96 RZ97	46270 46280 46387
Mounting bracket set for compartment section To support the distribution busbar system	RZ140	46335

TR12 - TR40 Mounting parts

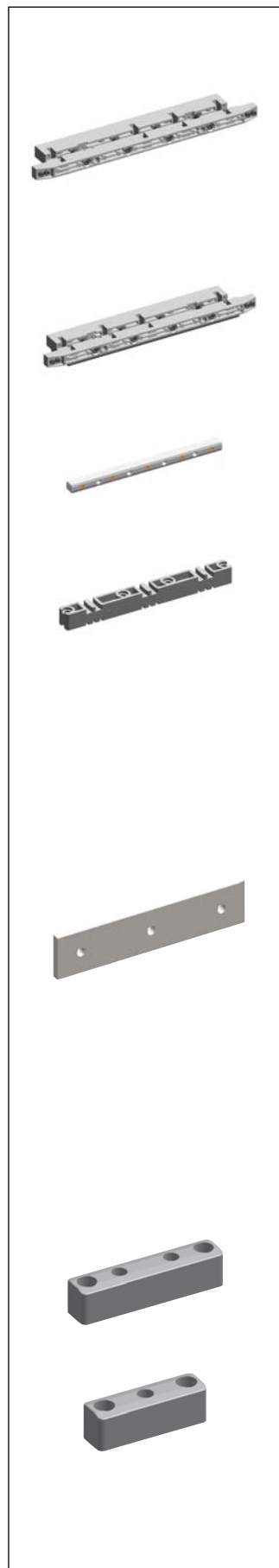
Busbar holders and accessories for main busbar system



Article		Type	Ord. No. +
Busbar holder Busbar centre spacing 200 mm For Cu busbars: 2 x 30 x 10 mm 2 x 40 x 10 mm 2 x 60 x 10 mm 2 x 80 x 10 mm	3 pole 1250 A 1600 A 2000 A 2500 A	ZX640	46077
Busbar holder Busbar centre spacing 200 mm For Cu busbars: 2 x 30 x 10 mm 2 x 40 x 10 mm 2 x 60 x 10 mm 2 x 80 x 10 mm 4 x 60 x 10 mm	4 pole 1250 A 1600 A 2000 A 2500 A 3500 A	ZX641	46078
Busbar holder Busbar centre spacing 300 mm For Cu busbars: 4 x 60 x 10 mm	3 pole 4000 A	ZX639	46922
Busbar separating part Busbar centre spacing 200 mm For Cu busbars: 4 x 60 x 10 mm	4 pole 3500 A	ZX643	46080
Busbar separating part Busbar centre spacing 300 mm One required per pole For Cu busbars: 4 x 60 x 10 mm	1 pole 4000 A	ZX649	46459
Clamp for busbar holder ZX 640/641 One required per pole For Cu busbars: 2 x 30 x 10 mm 1 pcs. 20 pcs.	1250 A	ZX644 ZX644P20	46081 46600
Clamp for busbar holder ZX 640/641 One required per pole For Cu busbars: 2 x 40 x 10 mm 1 pcs. 20 pcs.	1600 A	ZX647 ZX647P20	46084 46603
Clamp for busbar holder ZX 639/640/641 One required per pole For Cu busbars: 2 x 60 x 10 mm For Cu busbars: 4 x 60 x 10 mm 1 pcs. 20 pcs.	2000 A 3500 A / 4000 A	ZX645 ZX645P20	46082 46601
Clamp for busbar holder ZX 640/641 One required per pole For Cu busbars: 2 x 80 x 10 mm 1 pcs. 20 pcs.	2500 A	ZX646 ZX646P20	46083 46602
Clamp for busbar holder ZX639 One required per pole For Cu busbars: 4 x 60 x 10 mm 1 pcs.	4000 A	ZX648	46458
Threaded plate M12 For connection of DBB to MBB 1 pcs. 20 pcs.		ZX657 ZX657P20	46094 46303

TR12 - TR40 Mounting parts

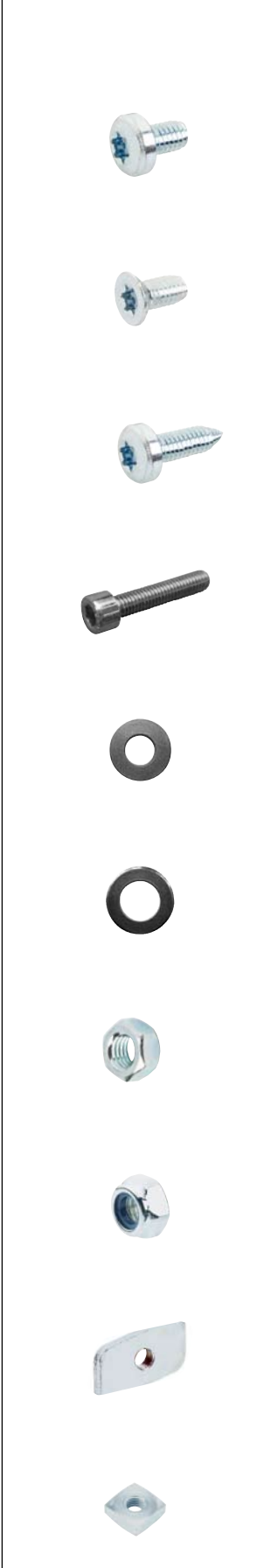
Busbar holders and accessories for distribution and N busbar system



Article	Type	Ord. No. ▶
Busbar holder		
Busbar centre spacing 185 mm		
For Cu busbars:		
1 x 60 x 10 mm	DBB 1250 A	ZX551 68515
1 x 80 x 10 mm	DBB 1600 A	ZX555 68676
1 x 100 x 10 mm	DBB 2000 A	ZX559 68737
Busbar holder with stop plate (bottom with vertical DBB)		
Busbar centre spacing 185 mm		
For Cu busbars:		
1 x 60 x 10 mm	DBB 1250 A	ZX552 61457
1 x 80 x 10 mm	DBB 1600 A	ZX556 61458
1 x 100 x 10 mm	DBB 2000 A	ZX560 61459
Busbar holder 3pole		
Busbar centre spacing 100/185 mm		
1 pcs.	ZX522	67909
10 pcs.	ZX522P10	62553
Busbar holder		
2 pcs. required per support point		
	ZX156	44013
Fibreglass busbar intermediate spacer		
Material 50 mm x 10 mm		
Length:		
120 mm	ZX670	46976
190 mm	ZX671	46977
208 mm	ZX672	46978
150 mm	ZX680	46260
240 mm	ZX681	46261
226 mm	ZX682	46262
352 mm	ZX683	46263
175 mm	ZX684	46264
270 mm	ZX685	46265
365 mm	ZX686	46266
223 mm	ZX687	46267
134 mm	ZX688	46268
480 mm	ZX689	46435
310 mm	ZX690	46438
670 mm	ZX691	46436
490 mm	ZX692	46439
245 mm	ZX693	46437
352 mm	ZX694	46460
490 mm	ZX695	46461
203 mm	ZX696	46902
478 mm	ZX697	46903
330 mm	ZX698	46904
Busbar holder N		
For Cu busbars:		
1 x 80 x 10 mm or 1 x 100 x 10 mm		
1 pcs.	ZX561	68732
10 pcs.	ZX561P10	68733
Busbar holder N		
For Cu busbars:		
Max. 1 x 60 x 10 mm		
1 pcs.	ZX563	68735
10 pcs.	ZX563P10	68736

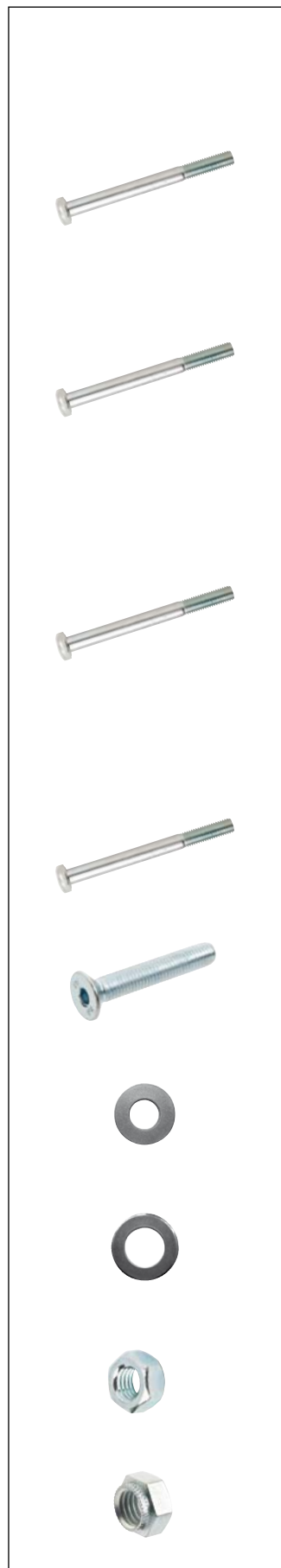
TR12 - TR40 Mounting parts

Screws, washers and nuts for mechanical assembly

	Article	Type	Ord. No. +
	Hexalobular socket pan head thread rolling screw (DIN 7500 Torx T30) For cross members, brackets and TriLine® cabinet frame profiles		
	M6 x 10 mm 20 pcs. 500 pcs.	RZ12P20 RZ12P500	46000 46001
	M6 x 16 mm 20 pcs.	RZ15P20	46004
	Hexalobular socket countersunk head thread rolling screw (Torx T30) For rear wall and side walls		
	M6 x 12 mm 20 pcs.	RZ13P20	46002
	Hexalobular socket pan head tapping screw (Duo-Taptite screw DIN 7500 Torx T30) For assembly of hinges on the TriLine® frame profiles		
	M6 x 14 mm 20 pcs.	RZ14P20	46003
	Hexagon socket head cap screw (DIN 912 8.8) M6 x 25 mm 20 pcs. M6 x 20 mm 10 pcs. M6 x 30 mm 20 pcs.	ZX663P20 ZX261P10 ZX257P20	46251 62518 68588
	Conical spring washer (DIN 6796 B/C galv.) M6 10 pcs.	ZX216P10	62590
	Plain washer (DIN 125 galv.) M6 10 pcs.	ZX283P10	60281
	Hexagon nut (DIN 934 galv.) M6 10 pcs.	ZX293P10	62605
	Prevailing torque type hexagon nut, with non-metallic insert (DIN 985) M6 20 pcs.	ZX292P20	62593
	Insertion nut Required for mounting of clamp ZX648 on busbar holder ZX639 M8 1 pcs. 50 pcs.	ZW62 ZW62P50	39462 62479
	Square nut (sliding nut) M12 25 x 25 x 8mm 4 pcs. required for assembly of busbar holder type ZX156 on aluminium profile rail type RZB231	ZX190	44153

TR12 - TR40 Mounting parts

Bolts, washers and nuts for Cu busbar assembly



Article	Type	Ord. No. ▶
Hexagon bolt M8 (DIN 933 8.8 galv.)		
M8 x 25 mm 10 pcs.	ZX721P10	62595
M8 x 30 mm 10 pcs.	ZX722P10	46252
M8 x 35 mm 10 pcs.	ZX723P10	46301
M8 x 40 mm 10 pcs.	ZX724P10	46253
M8 x 45 mm 10 pcs.	ZX725P10	66357
M8 x 50 mm 10 pcs.	ZX726P10	46254
M8 x 60 mm 10 pcs.	ZX728P10	46434
Hexagon bolt M10 (DIN 933 8.8 galv.)		
M10 x 30 mm 10 pcs.	ZX742P10	62634
M10 x 35 mm 10 pcs.	ZX743P10	62606
M10 x 40 mm 10 pcs.	ZX744P10	62607
M10 x 50 mm 10 pcs.	ZX746P10	62613
M10 x 60 mm 10 pcs.	ZX748P10	62616
Hexagon bolt M12 (DIN 933 8.8 galv.)		
M12 x 30 mm 10 pcs.	ZX762P10	62618
M12 x 35 mm 10 pcs.	ZX763P10	62608
M12 x 40 mm 10 pcs.	ZX764P10	62619
M12 x 50 mm 10 pcs.	ZX766P10	62620
M12 x 55 mm 10 pcs.	ZX767P10	62623
M12 x 60 mm 10 pcs.	ZX768P10	62614
M12 x 65 mm 10 pcs.	ZX769P10	62624
M12 x 70 mm 10 pcs.	ZX770P10	62621
M12 x 80 mm 10 pcs.	ZX772P10	62609
M12 x 90 mm 10 pcs.	ZX774P10	46255
M12 x 100 mm 1 pcs.	ZX181	44035
M12 x 110 mm 1 pcs.	ZX182	44036
Hexagon bolt M12, stainless steel V2A (DIN 931 A2)		
M12 x 130 mm 1 pcs.	ZX210	60630
M12 x 150 mm 1 pcs.	ZX211	60631
M12 x 190 mm 1 pcs.	ZX213	60633
Hexagon socket countersunk head screw (DIN 7991 8.8 galv.)		
M10 x 60 mm 10 pcs.	ZX714P10	68681
Conical spring washer (DIN 6796 B/C galv.)		
M8 10 pcs.	ZX217P10	60635
M10 10 pcs.	ZX218P10	60636
M12 10 pcs.	ZX219P10	60637
Plain washer (DIN 125 galv.)		
M8 10 pcs.	ZX284P10	62532
M10 10 pcs.	ZX285P10	62533
M12 10 pcs.	ZX286P10	62534
Hexagon nut (DIN 934 galv.)		
M8 10 pcs.	ZX294P10	62538
M10 10 pcs.	ZX295P10	62539
M12 10 pcs.	ZX296P10	62540
Press in type hexagon nut		
M8 10 pcs.	ZX377P10	62546
M10 10 pcs.	ZX397P10	62586
M12 10 pcs.	ZX398P10	62587

TR12 - TR40 Mounting parts

Parts for Cu assembly and Cu busbars

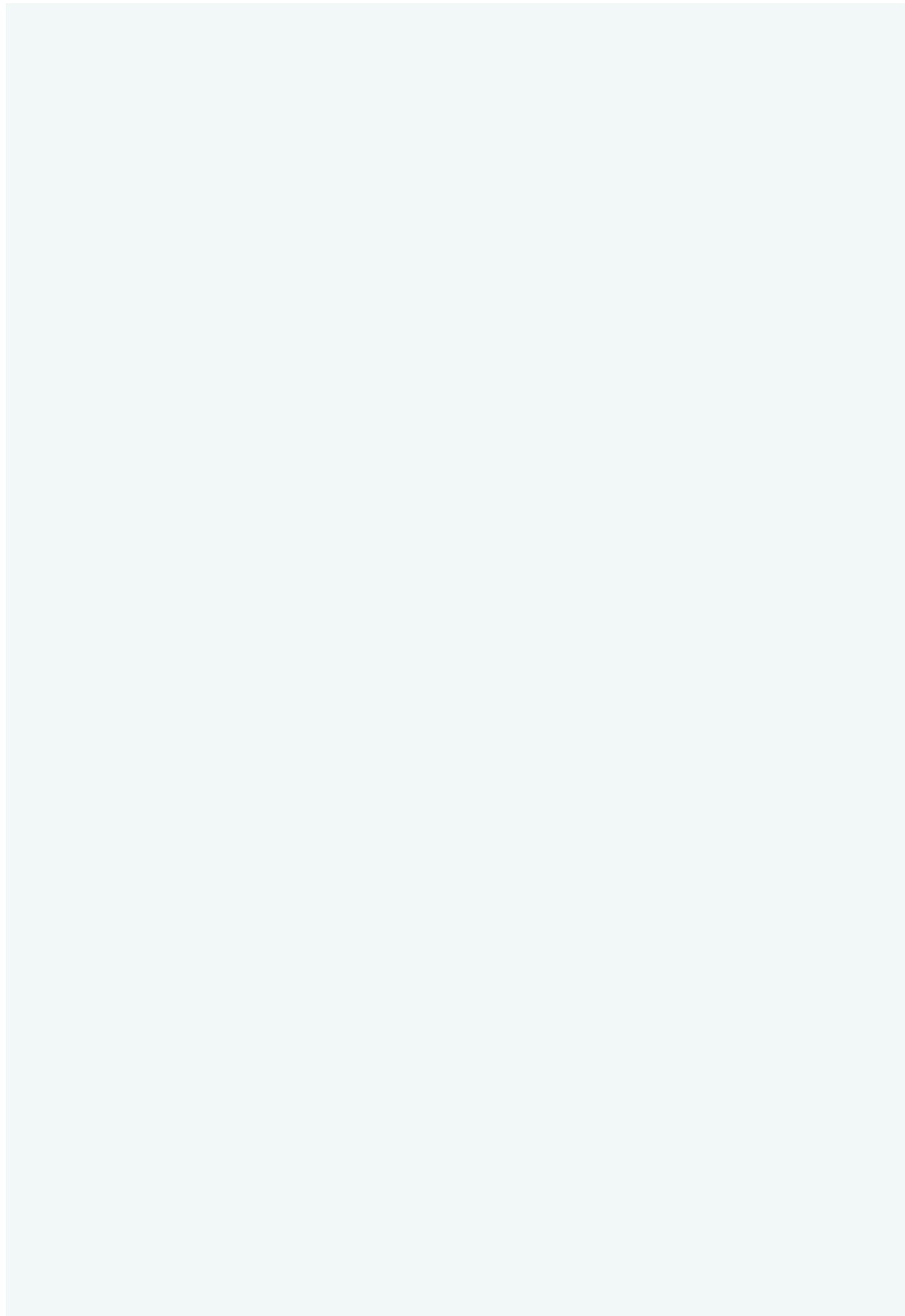
	Article		Type	Order No.
	Cu cylindrical spacer			
	ø 30 x 10 mm, ø 12,5 mm		ZX651	46088
	ø 30 x 20 mm, ø 12,5 mm		ZX652	46089
	ø 30 x 30 mm, ø 12,5 mm		ZX653	46090
	ø 30 x 40 mm, ø 12,5 mm		ZX654	46091
	ø 30 x 45 mm, ø 12,5 mm		ZX664	46086
	ø 30 x 50 mm, ø 12,5 mm		ZX655	46092
	ø 30 x 11 mm, ø 10 mm		ZX39	60213
	Cu spacer		ZX650	46087
	To be used as a spacer between two busbars spaced 10 mm apart			
	T-head bolt			
	M10 x 50	for Cu busbars 30 mm	ZX197	60242
	M10 x 60	for Cu busbars 40 mm	ZX198	60243
	M10 x 70	for Cu busbars 50 mm	ZX199	60244
	M10 x 80	for Cu busbars 60 mm	ZX200	60245
	M10 x 100	for Cu busbars 70 mm	ZX201	60246
	M10 x 120	for Cu busbars 80 mm	ZX202	60247
	Cu busbar 30 x 10 mm 1 m = 2,670 kg			
	1 m		ZX412	61412
	2 m		ZX413	61413
	3 m		ZX414	61414
	4 m		ZX356	61356
	Cu busbar 40 x 10 mm 1 m = 3,560 kg			
	1 m		ZX415	61415
	2 m		ZX416	61416
	3 m		ZX417	61417
	4 m		ZX357	61357
	Cu busbar 50 x 10 mm 1 m = 4,450 kg			
	1 m		ZX418	61418
	2 m		ZX419	61419
	3 m		ZX420	61420
	4 m		ZX358	61358
	Cu busbar 60 x 10 mm 1 m = 5,340 kg			
	1 m		ZX421	61421
	2 m		ZX422	61422
	3 m		ZX423	61423
	4 m		ZX359	61359
	Cu busbar 80 x 10 mm 1 m = 7,120 kg			
	1 m		ZX424	61424
	2 m		ZX425	61425
	3 m		ZX426	61426
	4 m		ZX360	61360
	Cu busbar 100 x 10 mm 1 m = 8,900 kg			
	1 m		ZX427	61427
	2 m		ZX428	61428
	3 m		ZX429	61429
	4 m		ZX361	61361

TR12 - TR40 Mounting parts

Busbar connection sets



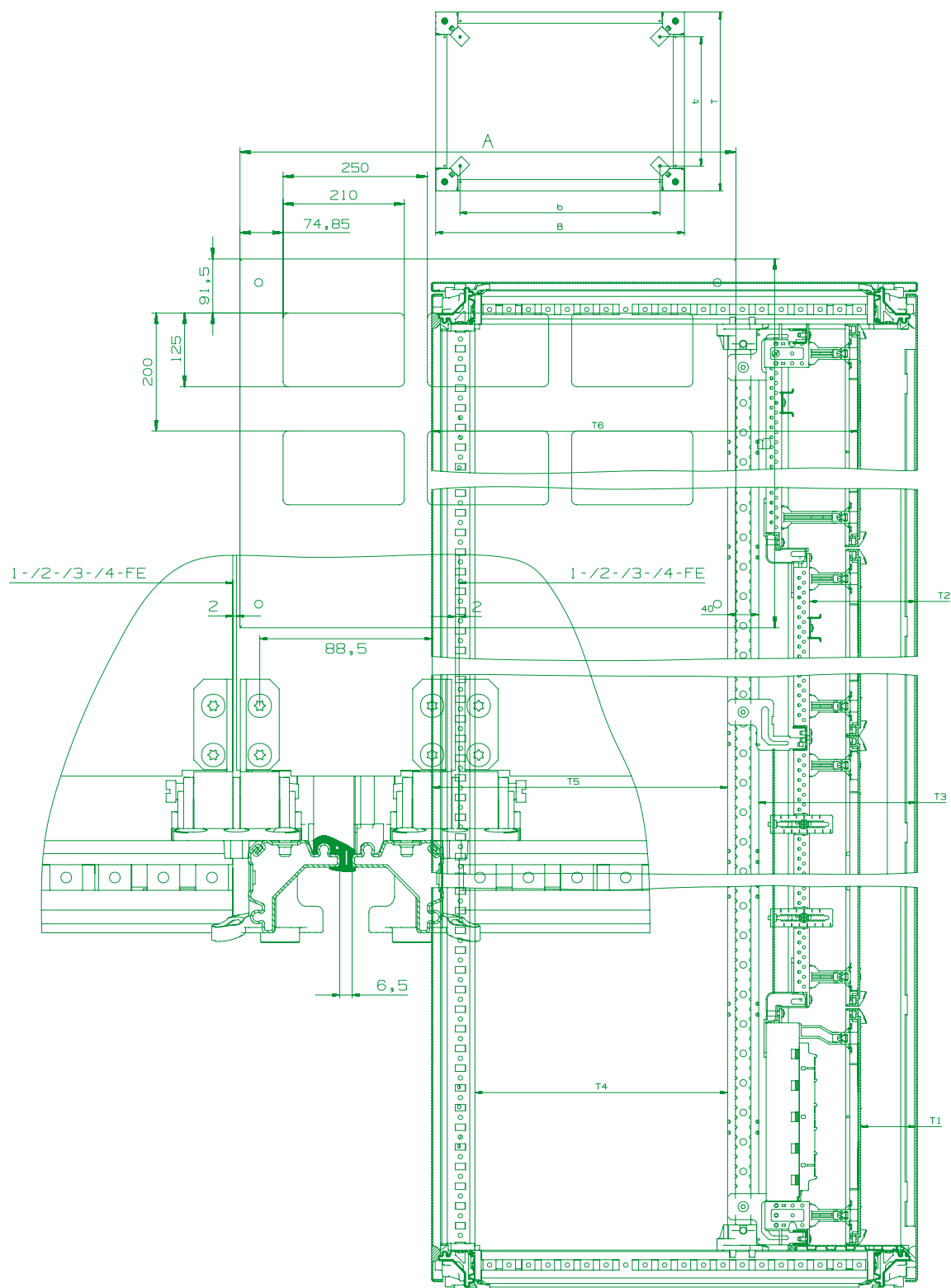
Article	Type	Ord. No. ▶
TR12 1250 A		
Busbar connection set 1250 A (Neutral busbars are on the same level) Cabinet/cabinet, 1 set consisting of: 9 pcs. 30 x 10 x 155 mm Cu busbar	RZ190	46638
Busbar connection set 1250 A (Neutral busbars are offset, on different level) Required for connection of 3 pole compartment sections, cable sections, or sections for horizontal SlimLine devices to other sections, where the neutral conductor is on a different level Cabinet/cabinet, 1 set consisting of: 9 pcs. 30 x 10 x 155 mm Cu busbar, 2 pcs. 10 mm Cu spacer plates, and 1 piece Cu cylindrical spacer ø 30 x 45 mm	RZ191	46639
TR16 1600 A		
Busbar connection set 1600 A (Neutral busbars are on the same level) Cabinet/cabinet, 1 set consisting of: 9 pcs. 40 x 10 x 155 mm Cu busbar	RZ192	46640
Busbar connector 1600 A (Neutral busbars are offset, on different level) Required for connection of 3 pole compartment sections, cable sections, or sections for horizontal SlimLine devices to other sections, where the neutral conductor is on a different level Cabinet/cabinet, 1 set consisting of: 9 pcs. 40 x 10 x 155 mm Cu busbar, 2 pcs. 10 mm Cu spacer plates, and 1 piece Cu cylindrical spacer ø 30 x 45 mm	RZ193	46641
TR20 2000 A		
Busbar connection set 2000 A (Neutral busbars are on the same level) Cabinet/cabinet, 1 set consisting of: 9 pcs. 60 x 10 x 155 mm Cu busbar	RZ194	46642
Busbar connector 2000 A (Neutral busbars are offset, on different level) Required for connection of 3 pole compartment sections, cable sections, or sections for horizontal SlimLine devices to other sections, where the neutral conductor is on a different level Cabinet/cabinet, 1 set consisting of: 9 pcs. 60 x 10 x 155 mm Cu busbar, 2 pcs. 10 mm Cu spacer plates, and 2 pcs. Cu cylindrical spacer ø 30 x 45 mm	RZ195	46643
TR25 2500 A		
Busbar connection set 2500 A (Neutral busbars are on the same level) Cabinet/cabinet, 1 set consisting of: 9 pcs. 80 x 10 x 155 mm Cu busbar	RZ60	46220
Busbar connector 2500 A (Neutral busbars are offset, on different level) Required for connection of 3 pole compartment sections, cable sections, or sections for horizontal SlimLine devices to other sections, where the neutral conductor is on a different level Cabinet/cabinet, 1 set consisting of: 9 pcs. 80 x 10 x 155 mm Cu busbar, 2 pcs. 10 mm Cu spacer plates, and 2 pcs. Cu cylindrical spacer ø 30 x 45 mm	RZ61	46221
TR35 3500 A		
Busbar connection set 3500 A Cabinet/cabinet, 1 set consisting of: 18 pcs. 60 x 10 x 160 mm Cu busbar 1 Satz, 18 pcs.	RZ115	46415
TR40 4000 A		
Busbar connection set 4000 A Cabinet/cabinet, 1 set consisting of: 6 pcs. 133 x 10 x 120 mm Cu busbar, 4 pcs. 60 x 10 x 120 mm Cu busbar (N and PE 50%)	RZ117	46449
Busbar connection set 4000 A Required for connection to offset section TR40500 Cabinet/cabinet, 1 set consisting of: 10 pcs. 133 x 10 x 120 mm Cu busbar, 2 pcs. 60 x 10 x 120 mm Cu busbar	RZ118	46450



TR12 - TR40 Technical information, general conditions, index



13-2 TriLine®-Power solutions 1250 A - 4000 A

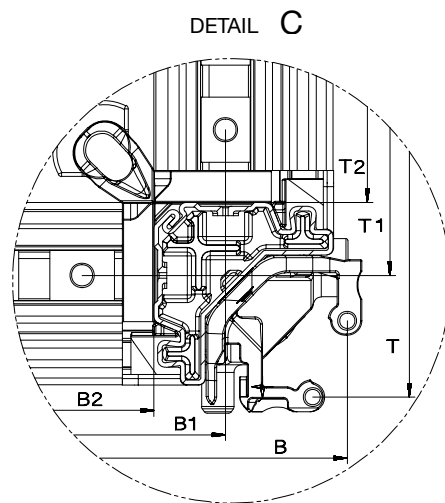
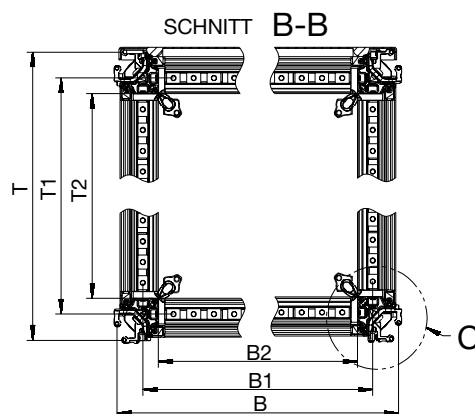
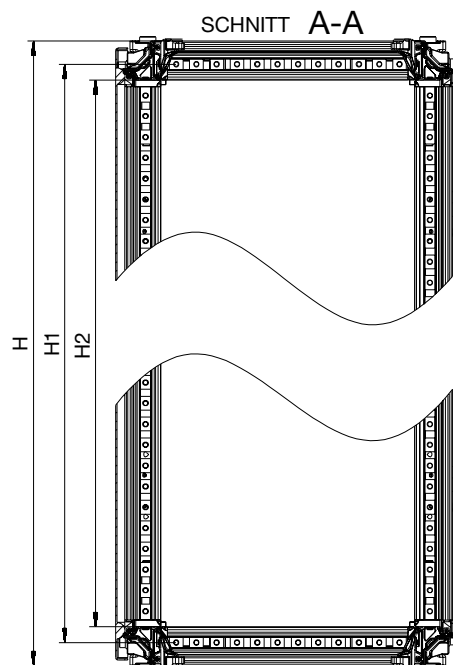
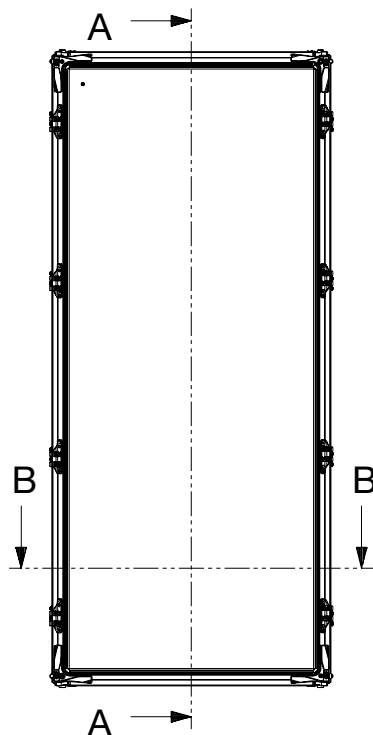


TR12 - TR40 Technical information

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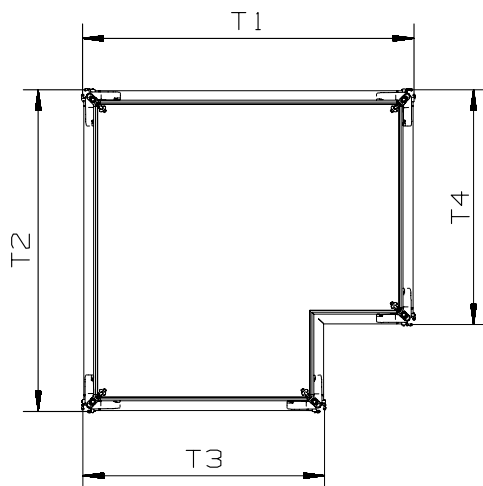
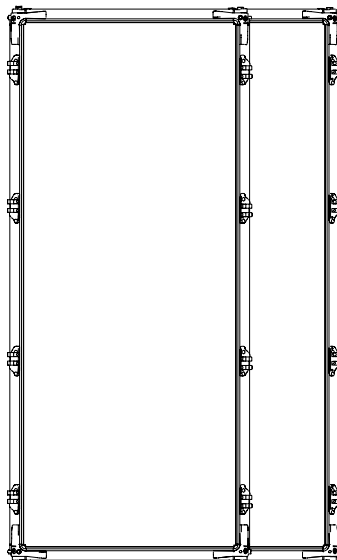
TR12 - TR40 Technical information TriLine® switchgear cabinet frame



Type	H	B	T	H1	B1	T1	H2	B2	T2	Power loss Pv in W	Weight in kg
11/8RG6	1906	489	613	1850	425	550	1813	388	513	302	37
2/8RG6	1906	614	613	1850	550	550	1813	513	513	357	53
21/8RG6	1906	739	613	1850	675	550	1813	638	513	412	55
3/8RG6	1906	864	613	1850	800	550	1813	763	513	466	60
4/8RG6	1906	1114	613	1850	1050	550	1813	1013	513	525	70
2/8RG8L	1906	614	813	1850	550	750	1813	513	713	433	55
21/8RG8L	1906	739	813	1850	675	750	1813	638	713	482	57
3/8RG8L	1906	864	813	1850	800	750	1813	763	713	531	63
4/8RG6	1906	1114	813	1850	1050	750	1813	1013	713	597	73

Dimensions in mm

TR12 - TR40 Technical information
TriLine® corner section



Type	T1	T2	T3	T4
E8R61	841	841	624	624
E8R81L	1116	1116	824	824

Dimensions in mm

TR12 - TR40 Technical information

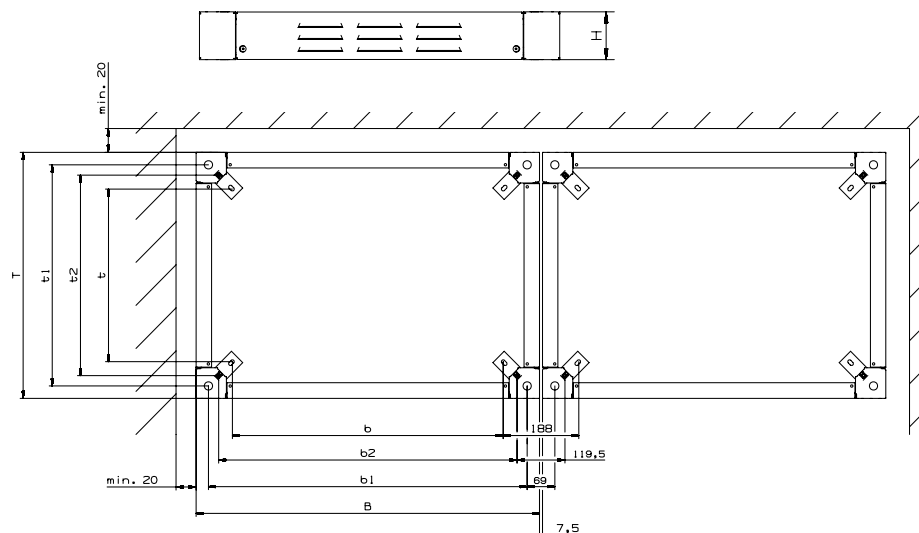
TriLine® plinth



The plinth has to be assembled with a minimum space of 20 mm between the rear of the plinth and the wall, due to overhang of the rear or side walls.

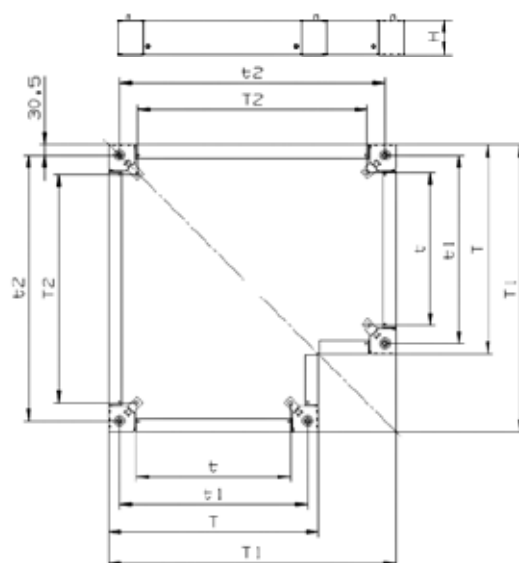
There is a space of 7,5 mm between plinths (see page 13-17).

Assemble the cabinet on the plinth prior to fixing the plinth to the floor.



Type	B	b	b1	b2	T	t	t1	t2	H
RSR116L	481	300	420	369	606	425	545	494	100
RSR26L	606	425	545	494	606	425	545	494	100
RSR216L	731	550	670	619	606	425	545	494	100
RSR36L	856	675	795	744	606	425	545	494	100
RSR46L	1106	925	1045	994	606	425	545	494	100
RSR28L	606	425	545	494	806	625	745	694	100
RSR218L	731	550	670	619	806	625	745	694	100
RSR38L	856	675	795	744	806	625	745	694	100
RSR48L	1106	925	1045	994	806	625	745	694	100

Dimensions in mm

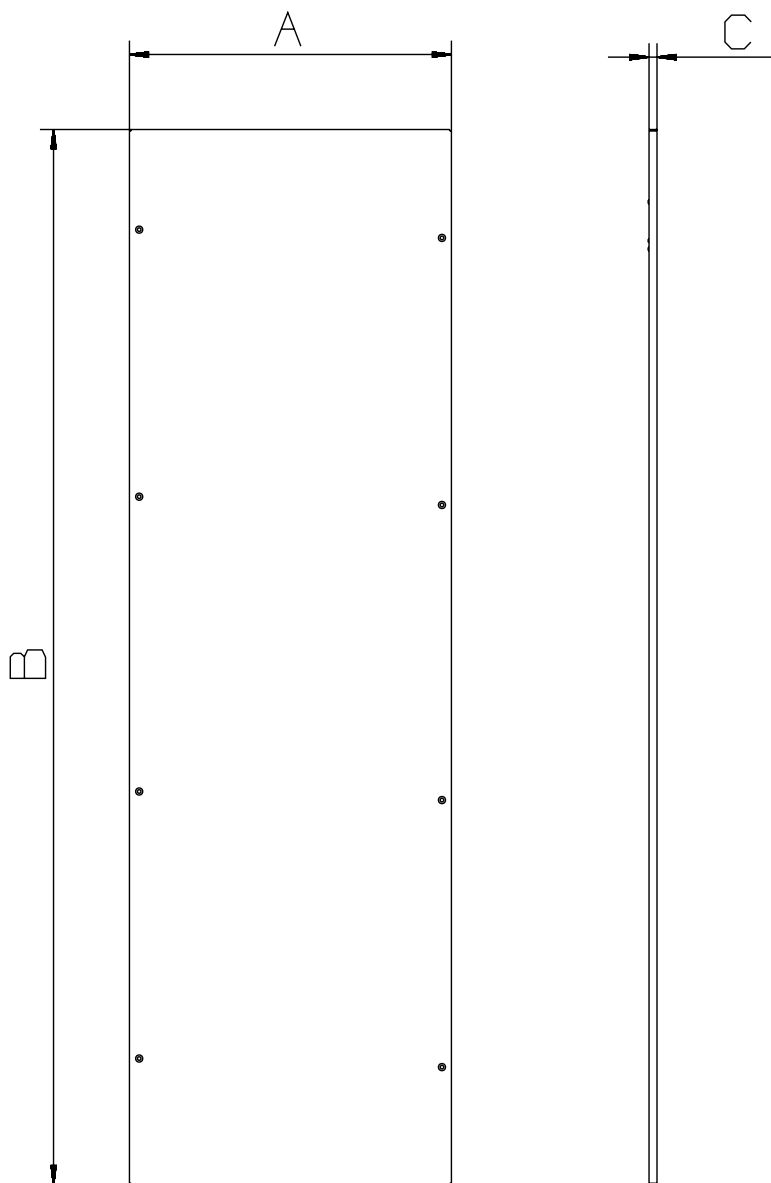


Type	T	T1	T2	t	t1	t2	H
RSRE61	606	833	652	425	545	772	100
RSRE81	806	1106	925	625	745	1045	100

Dimensions in mm

TR12 - TR40 Technical information

TriLine® side wall



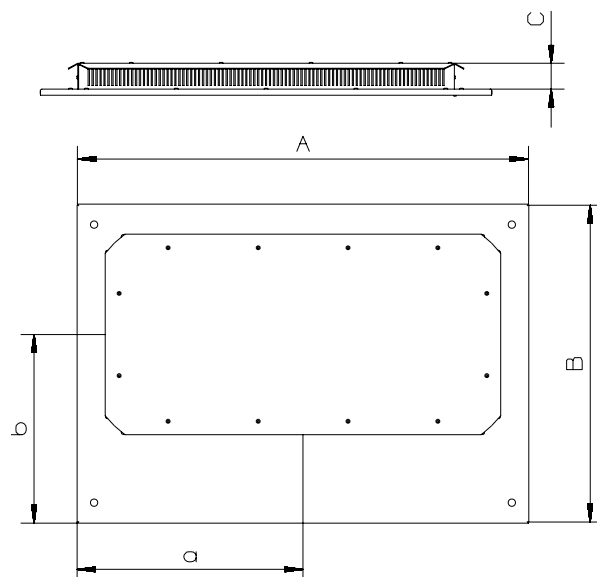
Total width of the cabinet combination = dimensions of the individual cabinets + 10 mm (5 mm each)
for left and right side walls

Type	A	B	C	kg
RSW86P2	590	1891	13	28
RSW88P2	790	1891	13	37,1

Dimensions in mm

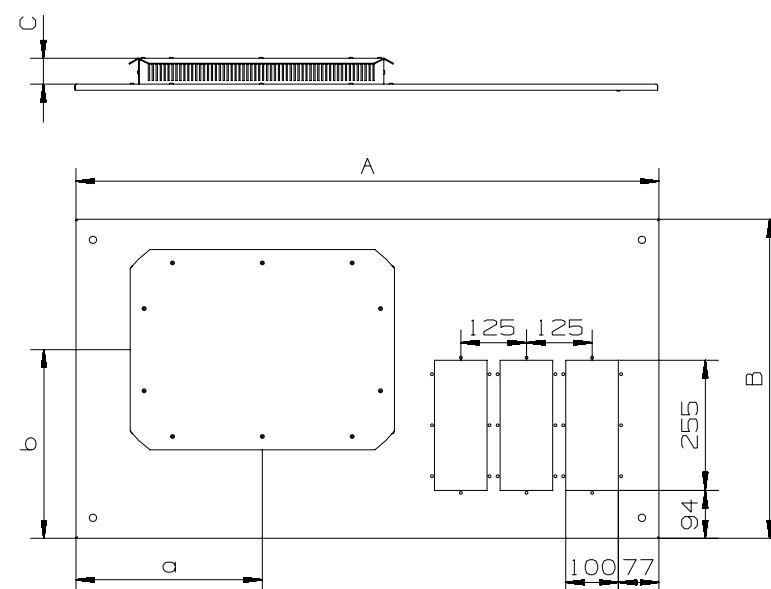
TR12 - TR40 Technical information

TriLine® top plate



Type	A	B	C	a	b
RD116L	484	625	50	242	370
RD26L	609	625	50	305	370
RD216L	734	625	50	367	370
RD36L	859	625	50	430	370
RD46L	1109	625	50	355	370
RD28L	609	825	120	305	412
RD218L	734	825	120	367	412
RD38L	859	825	120	430	412
RD48L	1109	825	120	555	412

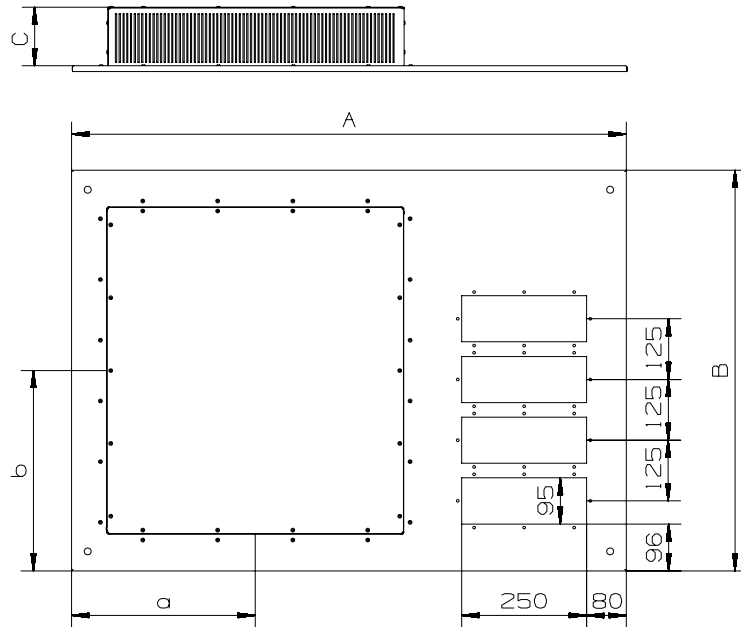
Dimensions in mm



Type	A	B	C	a	b
RD461L	1109	625	50	355	370

Dimensions in mm

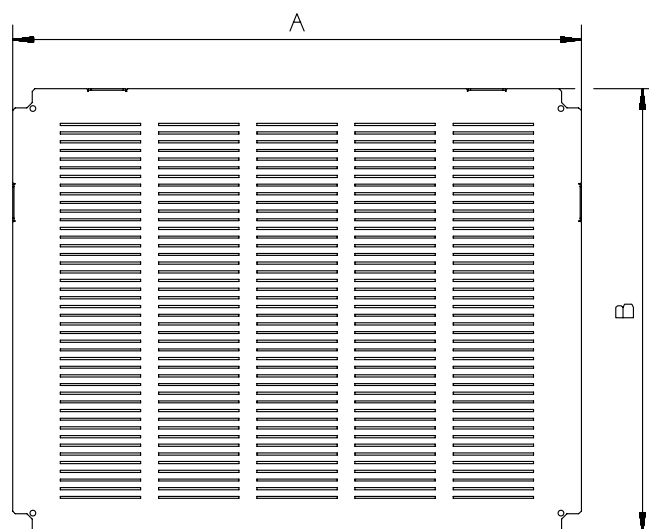
TriLine® top plate



.....
Dimensions in mm

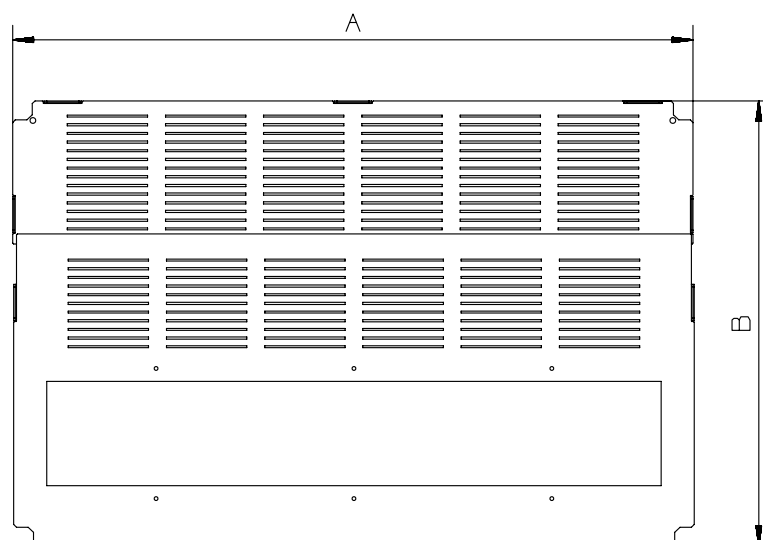
TR12 - TR40 Technical information

TriLine® bottom plate



Type	A	B
RB26L	512	512
RB216L	637	512
RB218L	637	712
RB36L	762	512

Dimensions in mm

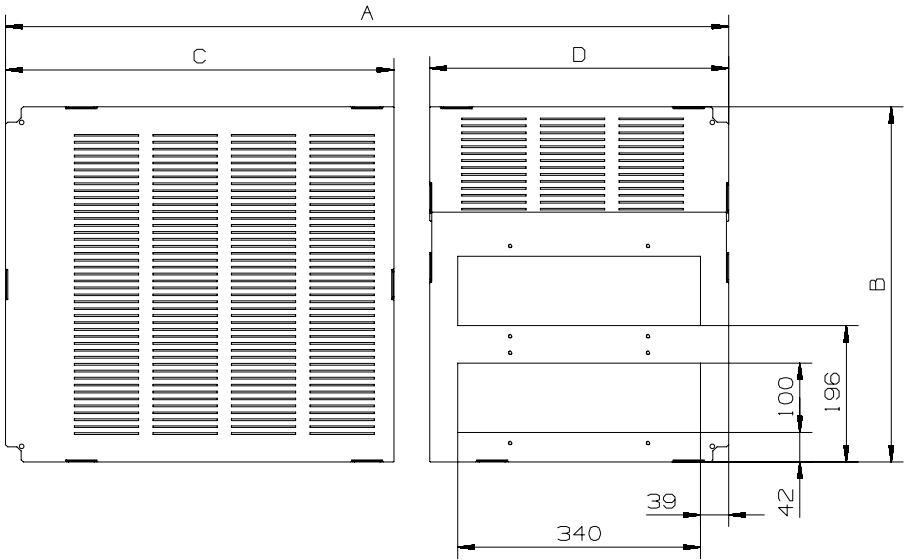


Type	A	B
RB116LS	387	512
RB26LS	512	512
RB36LS	762	512

Dimensions in mm

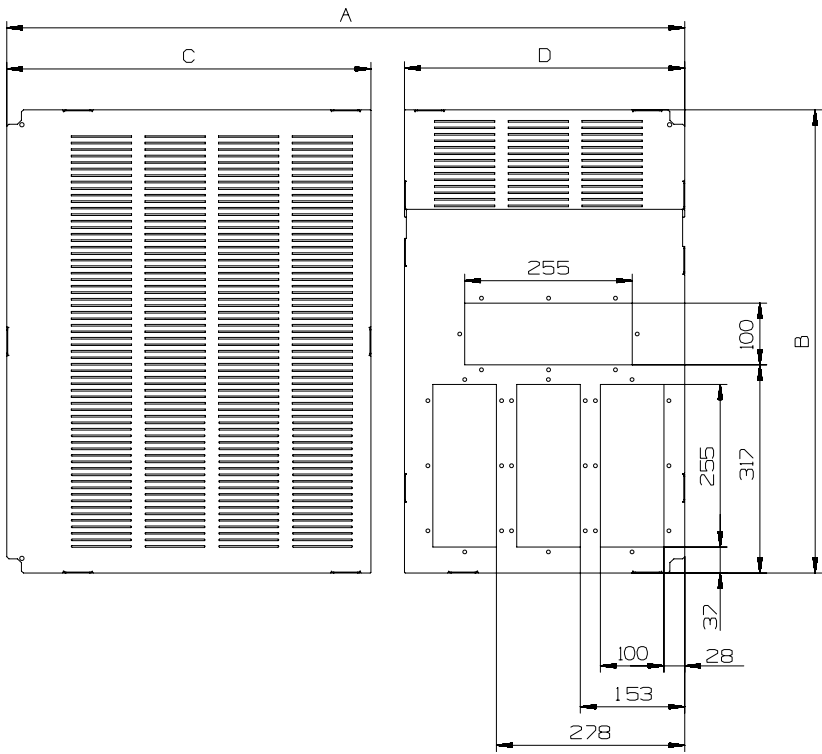
TR12 - TR40 Technical information

TriLine® bottom plate



Type	A	B	C	D
RB46LS	1012	512	544	418

Dimensions in mm

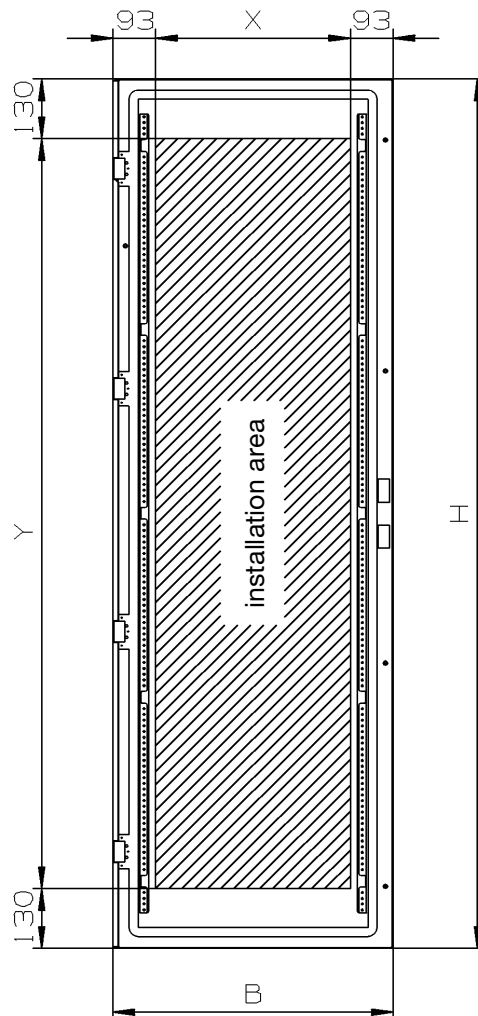


Type	A	B	C	D
RB461L	1012	512	544	418
RB481L	1012	712	544	418

Dimensions in mm

TR12 - TR40 Technical information

TriLine® doors, 2 or 3 panel wide

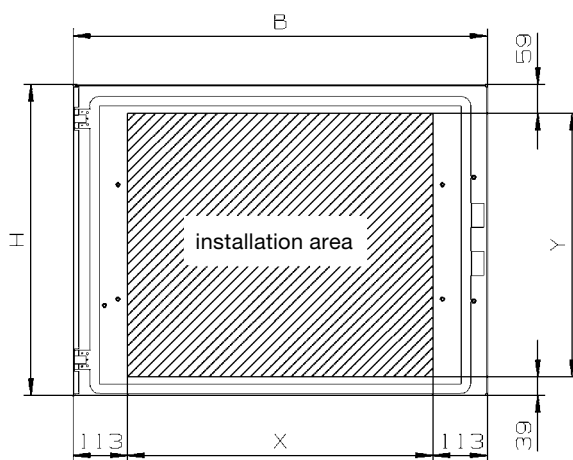
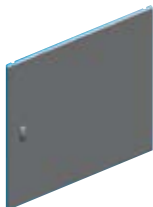


Type	B	H	X	Y
RT28	609,5	1891	423,5	1631
RT38	859,5	1891	673,5	1631

Dimensions in mm

TR12 - TR40 Technical information

TriLine® sectional door top

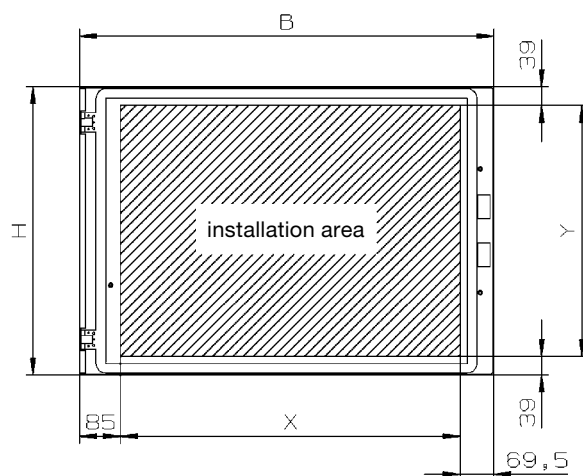
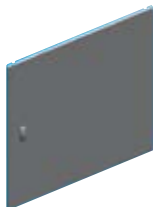


Type	B	H	X	Y
RT2/300T	609,5	344,5	383,5	246,5
RT2/450T	609,5	494,5	383,5	396,5
RT2/600T	609,5	644,5	383,5	546,5
RT2/750T	609,5	794,5	383,5	696,5
RT2/900T	609,5	944,5	383,5	846,5
RT3/300T	859,5	344,5	633,5	246,5
RT3/450T	859,5	494,5	633,5	396,5
RT3/600T	859,5	644,5	633,5	546,5
RT3/750T	859,5	794,5	633,5	696,5
RT3/900T	859,5	944,5	633,5	846,5
RT4/450T	1109,5	494,5	883,5	396,5
RT4/600T	1109,5	644,5	883,5	546,5

Dimensions in mm

TR12 - TR40 Technical information

TriLine® sectional door, middle

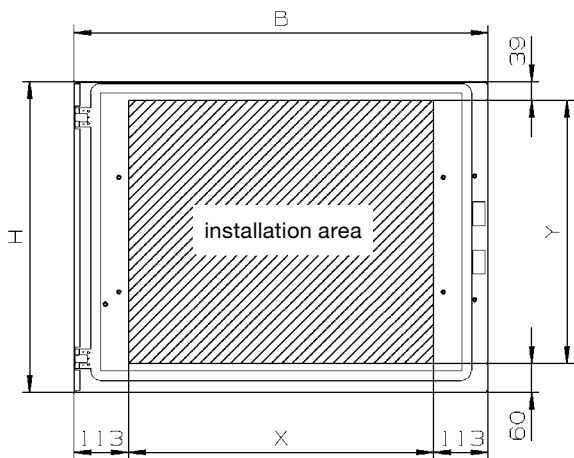
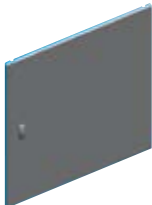


Type	B	H	X	Y
RT2/300M	609,5	298,5	455	220,5
RT2/450M	609,5	448,5	455	370,5
RT2/600M	609,5	598,5	455	520,5
RT2/750M	609,5	748,5	455	670,5
RT2/900M	609,5	898,5	455	820,5
RT3/300M	859,5	298,5	705	220,5
RT3/450M	859,5	448,5	705	370,5
RT3/600M	859,5	598,5	705	520,5
RT3/750M	859,5	748,5	705	670,5
RT3/900M	859,5	898,5	705	820,5
RT4/450M	1109,5	448,5	955	370,5
RT4/600M	1109,5	598,5	955	520,5
RT4/900M	1109,5	898,5	955	820,5

Dimensions in mm

TR12 - TR40 Technical information

TriLine® sectional door, bottom



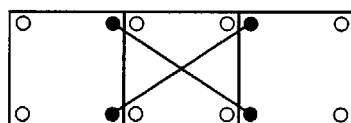
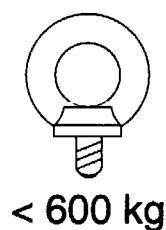
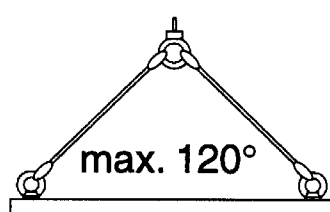
Type	B	H	X	Y
RT2/300U	609,5	344,5	383,5	245,5
RT2/450U	609,5	494,5	383,5	395,5
RT2/600U	609,5	644,5	383,5	545,5
RT2/750U	609,5	794,5	383,5	695,5
RT2/900U	609,5	944,5	383,5	845,5
RT3/300U	859,5	344,5	633,5	245,5
RT3/450U	859,5	494,5	633,5	395,5
RT3/600U	859,5	644,5	633,5	545,5
RT3/750U	859,5	794,5	633,5	695,5
RT3/900U	859,5	944,5	633,5	845,5
RT4/450U	1109,5	494,5	883,5	395,5
RT4/600U	1109,5	644,5	883,5	545,5

Dimensions in mm

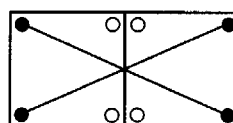
TR12 - TR40 Technical information

TriLine® crane transport, cabinet combination

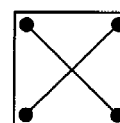
Lifting of TriLine® enclosures is possible as indicated.
 Always use the STRIEBEL & JOHN transportation lugs type RZ11P4.
 Also consider the weight limits of cabinet combinations as indicated.



max.
400 kg + 400 kg + 400 kg



max.
600 kg + 600 kg



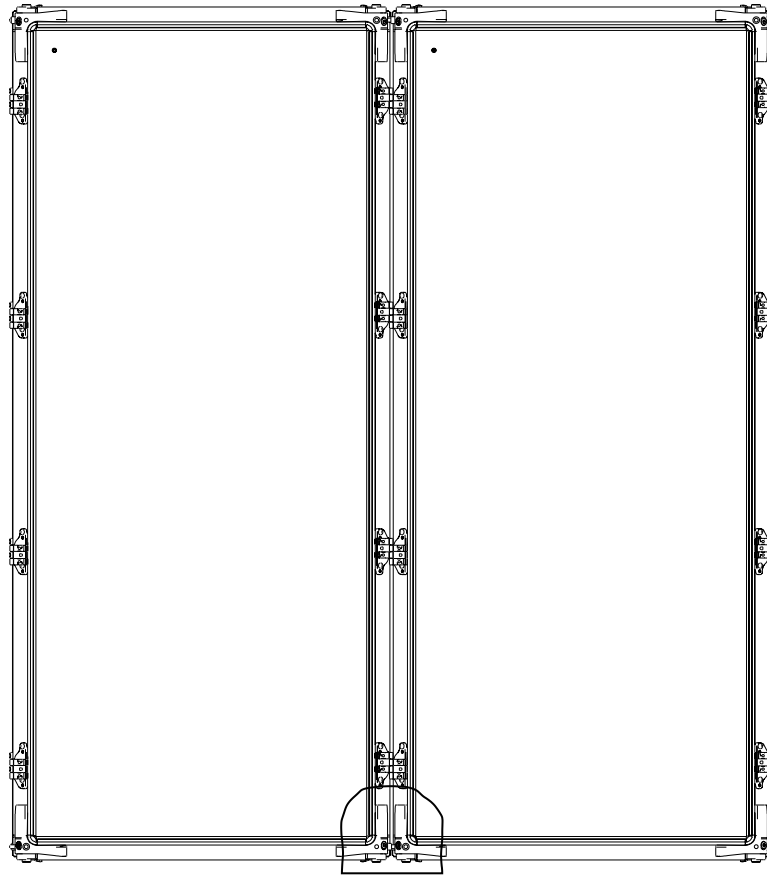
max.
1200 kg

Cabinet connection with RZ33, RZ147 or RZ148

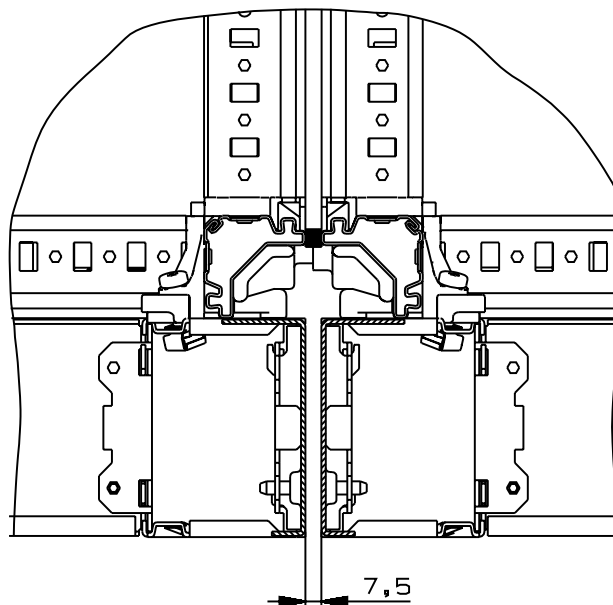
		1 PW	1,5 PW	2 PW	2,5 PW	3 PW	4 PW	5 PW
	maximum weight per cabinet	1200 kg	1200 kg	1200 kg	1200 kg	1200 kg	1200 kg	1200 kg
	maximum total weight	1200 kg	1200 kg	1200 kg	1200 kg	1200 kg	1200 kg	1200 kg
	maximum weight per cabinet	600 kg	600 kg	600 kg	600 kg	600 kg	-	-
	maximum total weight	1200 kg	1200 kg	1200 kg	1200 kg	1200 kg	-	-
	maximum weight per cabinet	400 kg	400 kg	400 kg	400 kg	400 kg	-	-
	maximum total weight	1200 kg	1200 kg	1200 kg	1200 kg	1200 kg	-	-

TR12 - TR40 Technical information

TriLine® cabinet combination



Total width of the cabinet combination = Dimensions of the individual cabinets + 10 mm (5 mm each) for left and right side walls



Plinths are spaced 7,5 mm apart.
Mount the cabinet on the plinth before fixing the plinth to the floor.
Dimensions in mm.

TR12 - TR40 Technical information

Rated currents and short-circuit currents
of standard transformers

Rated voltage U_n	400 V / 240 V			525 V			693 V / 400 V		
Short-circuit voltage U_k		4%	6%		4%	6%		4%	6%
Rated power (kVA)	Rated current I_N (A)	Short-circuit current I_k (A)		Rated current I_N (A)	Short-circuit current I_k (A)		Rated current I_N (A)	Short-circuit current I_k (A)	

50	72	1805	-	55	1375	-	42	1042	-
100	144	3610	2406	110	2750	1833	84	2084	1392
160	230	5776	3850	176	4400	2933	133	3325	2230
200	288	7220	4812	220	5500	3667	168	4168	2784
250	360	9025	6015	275	6875	4580	210	5220	3560
315	455	11375	7583	346	8660	5775	263	6650	4380
400	578	14450	9630	440	11000	7333	336	8336	5568
500	722	18050	12030	550	13750	9166	420	10440	7120
630	910	22750	15166	693	17320	11550	526	13300	8760
800	1156	-	19260	880	-	14666	672	-	11136
1000	1444	-	24060	1100	-	18333	840	-	13920
1250	1805	-	30080	1375	-	22916	1050	-	17480
1600	2312	-	38530	1760	-	29333	1330	-	22300
2000	2888	-	48120	2200	-	36666	1680	-	27840
2500	3610	-	60200	2750	-	45800	2060	-	34300

$$I_k = \frac{I_N}{U_k (\%)} \times 100\%$$

U_k = short-circuit voltage in %

TR12 - TR40 Technical information

Rated current of cables

Rated current (three-phase operation) as per DIN VDE 0276-603

Cables with $U_0/U = 0,6/1$ kV

Laid in air

1	2	3	4	5	6	7	8	9
Insulation material	PVC					VPE		
Permissible operating temperature	70°C					90°C		
Type designation	N(A)YY			N(A)YCWY		N(A)2XY; N(A)2X2Y		
Configuration	¹⁾ 					¹⁾ 		
Number of loaded conductors	1	3	3	3	3	1	3	3
Cross-section in mm ²	Copper conductor: rated current in A							
1,5	27	19,5	21	19,5	22	33	24	26
2,5	35	25	28	26	29	43	32	34
4	47	34	37	34	39	57	42	44
6	59	43	47	44	49	72	53	56
10	81	59	64	60	67	99	74	77
16	107	79	84	80	89	131	98	102
25	144	106	114	108	119	177	133	138
35	176	129	139	132	146	217	162	170
50	214	157	169	160	177	265	197	207
70	270	199	213	202	221	336	250	263
95	334	246	264	249	270	415	308	325
120	389	285	307	289	310	485	359	380
150	446	326	352	329	350	557	412	437
185	516	374	406	377	399	646	475	507
240	618	445	483	443	462	774	564	604
300	717	511	557	504	519	901	649	697
400	843	597	646	577	583	1060	761	811
500	994	669	747	626	657	1252	866	940
Cross-section in mm ²	Aluminium conductor: rated current in A							
25	110	82	87	83	91	136	102	106
35	135	100	107	101	112	166	126	130
50	166	119	131	121	137	205	149	161
70	210	152	166	155	173	260	191	204
95	259	186	205	189	212	321	234	252
120	302	216	239	220	247	376	273	295
150	345	246	273	249	280	431	311	339
185	401	285	317	287	321	501	360	395
240	479	338	378	339	374	600	427	472
300	555	400	437	401	426	696	507	547
400	653	472	513	468	488	821	600	643
500	772	539	600	524	556	971	695	754

1) Rated current in DC systems with remote return conductors

TR12 - TR40 Technical information

Degree of protection

1st digit: Protection against penetration of solid bodies

2nd digit: Protection against penetration of water

IP

0	No protection
1 	Protected against solid bodies larger than 50 mm (accidental contact with hands)
2 	Protected against solid bodies larger than 12 mm or objects of length not exceeding 80 mm
3 	Protected against solid bodies larger than 2.5 mm
4 	Protected against solid bodies larger than 1.0 mm
5 	Protected against dust (no harmful deposit)
6 	Totally protected against dust

Erste Ziffer definiert durch die Normen IEC 60529

IP

0	No protection
1 	Protected against vertical fall drops of water (condensation)
2 	Protected against drops of water up to 15° from vertical
3 	Protected against drops of water up to 60° from vertical
4 	Protected against splashes of water from all directions
5 	Protected against jets of water from all directions by means of a hose
6 	Protected against jets of water similar to sea waves
7 	Protected against the effects of temporary immersion
8 	Protected against the effects of continual immersion

2nd digit defined by the IEC 60529 Standards

As shown in the above table, the IP degree of protection is indicated by two digits, which are allocated according to the behavior of the product as per IEC 60529 standard

TR12 - TR40 Technical information

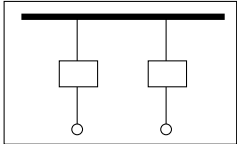
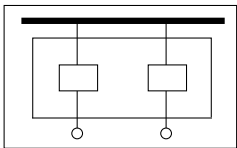
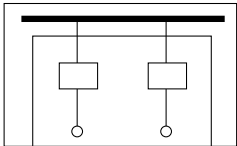
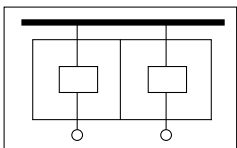
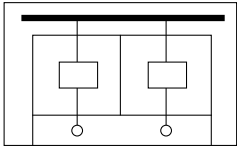
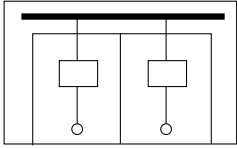
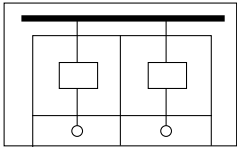
Temperature rise limits

Temperature rise limits for switchgear assemblies to IEC/EN 60439-1

Parts of the switchgear assembly	Temperature rise limit in K
Built in components	In accordance with the relevant product standard requirements for the individual components or, in accordance with the component manufacturer's instructions, taking into consideration the temperature in the ASSEMBLY
– conventional switchgear and controlgear	
– electronic sub-assemblies	
– parts of the equipment	
Terminals of external insulated conductors	70 K
– busbars	Limited by:
– conductors	– mechanical strength of conducting material
– plug in contacts of removable or withdrawable parts	– possible effect on adjacent equipment
	– permissible temperature limit of the insulating materials in contact with the conductor
	– effect of the temperature of the conductor on the apparatus connected to it
	– nature and surface treatment of the contact material
Operating parts accessible from outside	
– of metal	15 K
– of insulating material	25 K
Touchable external parts of enclosure or cladding, which are accessible from outside	
– of metal	30 K
– of insulating material	40 K
Touchable external parts of enclosure or cladding, which are accessible from outside, but do not need to be touched during normal operation	
– of metal	40 K
– of insulating material	50 K
Plug and socket type connections	Determined by the limit for those components of the related equipment of which they form part

TR12 - TR40 Technical information

Internal form of separation

Form	Main criteria	Subcriteria	Figure
Form 1	No internal separation		
Form 2a	Separation of busbars from the functional units	Terminals for external conductors not separated from busbars	
Form 2b	Separation of busbars from the functional units	Terminals for external conductors separated from busbars	
Form 3a	Separation of busbars from all functional units Separation of all functional units from one another Separation of terminals for external conductors from the functional units, but not from those of other functional units	Terminals for external conductors not separated from busbars	
Form 3b	Separation of busbars from all functional units Separation of all functional units from one another Separation of terminals for external conductors from the functional units, but not from those of other functional units	Terminals for external conductors separated from busbars	
Form 4a	Separation of busbars from all functional units Separation of all functional units from one another Separation of terminals for external conductors associated with a functional unit from those of any other functional unit and the busbars	Terminals for external conductors in the same compartment as the associated functional unit	
Form 4b	Separation of busbars from all functional units Separation of all functional units from one another Separation of terminals for external conductors associated with a functional unit from those of any other functional unit and the busbars	Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments	

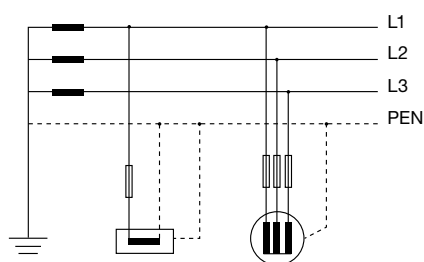
TR12 - TR40 Technical information

Grid systems

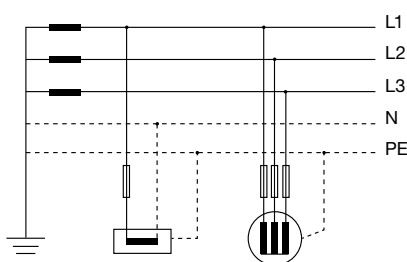
Evaluation of the types of earthing for systems, and protective measures in low voltage switchgear assemblies

System	Advantages	Disadvantages	Preferred application
TN system	Fast disconnection of errors or short circuits, Least dangers for persons and equipment.	High cable laying effort due to protective conductor, every fault leads to system downtime.	Power stations, public power supply.
TT system	Low cable laying effort, different voltages allowed in different areas, can be combined with TN system.	Complicated system earthing ($\leq 2 \Omega$). Supplementary (local) equipotential bonding required for every building.	Animal farming applications.
IT system	Low cable laying effort, high availability of supply: 1. Fault is signalled, 2. Fault is disconnected.	All equipment must be insulated for the voltage between the outer conductors. Equipotential bonding necessary.	Hospitals, industrial applications.
Protective insulation	Highest safety level, can be combined with other systems.	Double insulation of equipment is only economic with smaller equipment. Fire hazard with thermal equipment due to insulating materials.	Household, electrical distribution and equipment in smaller dimensions.
Protection by extra low voltage	No dangerous voltage in case of direct or indirect contact.	Restricted power for equipment in commercial applicatons, special specifications apply for circuits.	Small appliances.

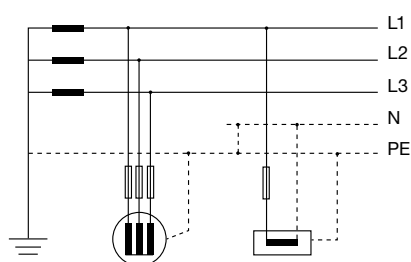
TN - C system



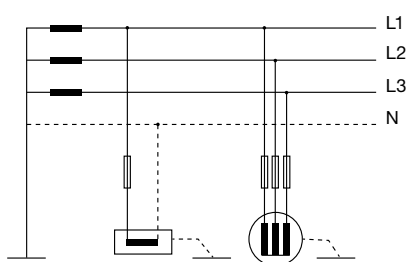
TN - S system



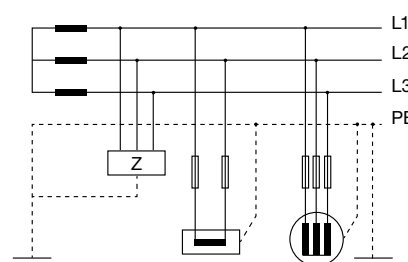
TN - C - S system



TT - system



IT - system



TR12 - TR40 Technical information

Utilization categories for switchgear

Utilization categories for switchgear to IEC 60947-3 (VDE 0660 Part 107) for alternating current

Utilization category		
Frequent operation	Occasional operation	Typical applications
AC-20A*)	AC-20B*	Closing and opening without load
AC-21A	AC-21B	Switching resistive load including minor overload
AC-22A	AC-22B	Switching mixed resistive and inductive load including minor overload
AC-23A	AC-23B	Switching motors or other highly inductive loads

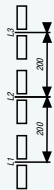
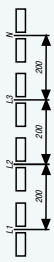
* Application of these utilization categories is not permitted in the USA

Rated currents for HRC fuse bases and fuse rails and also for gG fuse links (VDE 0636 Part 201), values in brackets = deviations for aM links

Size	HRC fuse bases	HRC fuse rails	HRC fuse links		
	A	A	~ 400 V ~ 500 V A	~ 690 V A	= 440 V
000	100	-	2 to 100	2 to 100	-
00	160	160	6 to 160 (100)	to 100	100
0	160	160	6 to 160	to 100	160
1	250	250	80 to 250	to 200 (250)	250
2	400	400	125 to 400	to 315 (400)	400
3	630	630	315 to 630	to 500 (630)	630
4	1000	-	500 to 1000	to 800 (1000)	1250
4a	1600	-	500 to 1600	to 1000(1250)	-

TR12 - TR40 Technical information

Main busbar system TriLine®

Installation position	Busbarholder Type	No. of busbars and dimensions	Rated current I_n A (35°C)	Rated short-time withstand current I_{cw} (kA)	Rated peak withstand current I_{pk} (kA)	Note
	ZX640 3pole	2 Cu 30 x 10 mm	1250 A	50 kA	105 kA	
		2 Cu 40 x 10 mm	1600 A	75 kA	165 kA	
		2 Cu 60 x 10 mm	2000 A	75 kA	165 kA	
		2 Cu 80 x 10 mm	2500 A	75 kA	165 kA	
	ZX640 3pole	4 Cu 60 x 10 mm Busbar spacing x = 200 mm	3500 A	100 kA	220 kA	
	ZX639 3pole	4 Cu 60 x 10 mm Busbar spacing x = 300 mm	4000 A	100 kA	220 kA	N + PE 50%
	ZX641 4pole	2 Cu 30 x 10 mm	1250 A	50 kA	105 kA	
		2 Cu 40 x 10 mm	1600 A	75 kA	165 kA	
		2 Cu 60 x 10 mm	2000 A	75 kA	165 kA	
		2 Cu 80 x 10 mm	2500 A	75 kA	165 kA	
	ZX641 4pole	4 Cu 60 x 10 mm	3500 A	100 kA	220 kA	

PREAMBLE

1. These General Conditions shall apply when the parties agree in writing or otherwise thereto. When the General Conditions apply to a specific contract, modifications of or deviations from them must be agreed in writing.

The object(s) to be supplied under these General Conditions is (are) hereinafter referred to as the Product.

Wherever these General Conditions use the term in writing, this shall mean by document signed by the parties, or by letter, fax, electronic mail and by such other means as are agreed by the parties.

PRODUCT INFORMATION

2. All information and data contained in general product documentation and price lists, whether in electronic or any other form, are binding only to the extent that they are by reference expressly included in the contract.

DRAWINGS AND DESCRIPTIONS

3. All drawings and technical documents relating to the Product or its manufacture submitted by one party to the other, prior or subsequent to the formation of the contract, shall remain the property of the submitting party.
Drawings, technical documents or other technical information received by one party shall not, without the consent of the other party, be used for any other purpose than that for which they were provided. They may not, without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to a third party.

4. The Supplier shall, not later than at the date of delivery, provide free of charge information and drawings which are necessary to permit the Purchaser to erect, commission, operate and maintain the Product. Such information and drawings shall be supplied in the number of copies agreed upon or at least one copy of each. The Supplier shall not be obliged to provide manufacturing drawings for the Product or for spare parts.

ACCEPTANCE TESTS

5. Acceptance tests provided for in the contract shall, unless otherwise agreed, be carried out at the place of manufacture during normal working hours.
If the contract does not specify the technical requirements, the tests shall be carried out in accordance with general practice in the appropriate branch of industry concerned in the country of manufacture.

6. The Supplier shall notify the Purchaser in writing of the acceptance tests in sufficient time to permit the Purchaser to be represented at the tests. If the Purchaser is not represented, the test report shall be sent to the Purchaser and shall be accepted as accurate.

7. If the acceptance tests show the Product not to be in accordance with the contract, the Supplier shall without delay remedy any deficiencies in order to ensure that the Product complies with the contract. New tests shall then be carried out at the Purchaser's request, unless the deficiency was insignificant.

8. The Supplier shall bear all costs for acceptance tests carried out at the place of manufacture. The Purchaser shall however bear all travelling and living expenses for his representatives in connection with such tests.

DELIVERY. PASSING OF RISK

9. Any agreed trade term shall be construed in accordance with the INCOTERMS in force at the formation of the contract.
If no trade term is specifically agreed, the delivery shall be Ex works (EXW).
If, in the case of delivery Ex works, the Supplier, at the request of the Purchaser, undertakes

to send the Product to its destination, the risk will pass not later than when the Product is handed over to the first carrier.
Partial shipments shall be permitted unless otherwise agreed.

TIME FOR DELIVERY. DELAY

10. If the parties, instead of specifying the date for delivery, have specified a period of time on the expiry of which delivery shall take place, such period shall start to run as soon as the contract is entered into, all official formalities have been completed, payments due at the formation of the contract have been made, any agreed securities have been given and any other preconditions have been fulfilled.

11. If the Supplier anticipates that he will not be able to deliver the Product at the time for delivery, he shall forthwith notify the Purchaser thereof in writing, stating the reason, and, if possible, the time when delivery can be expected.
If the Supplier fails to give such notice, the Purchaser shall be entitled to compensation for any additional costs which he incurs and which he could have avoided had he received such notice.

12. If delay in delivery is caused by any of the circumstances mentioned in Clause 39 or by an act or omission on the part of the Purchaser, including suspension under Clauses 20 or 42, the time for delivery shall be extended by a period which is reasonable having regard to all the circumstances in the case. This provision applies regardless of whether the reason for the delay occurs before or after the agreed time for delivery.

13. If the Product is not delivered at the time for delivery (as defined in Clauses 10 and 12), the Purchaser is entitled to liquidated damages from the date on which delivery should have taken place.

The liquidated damages shall be payable at a rate of 0.5 per cent of the purchase price for each completed week of delay. The liquidated damages shall not exceed 7.5 per cent of the purchase price.

If only part of the Product is delayed, the liquidated damages shall be calculated on that part of the purchase price which is attributable to such part of the Product as cannot in consequence of the delay be used as intended by the parties.

The liquidated damages become due at the Purchaser's demand in writing but not before delivery has been completed or the contract is terminated under Clause 14.

The Purchaser shall forfeit his right to liquidated damages if he has not lodged a claim in writing for such damages within six months after the time when delivery should have taken place.

14. If the delay in delivery is such that the Purchaser is entitled to maximum liquidated damages under Clause 13 and if the Product is still not delivered, the Purchaser may in writing demand delivery within a final reasonable period which shall not be less than one week.

If the Supplier does not deliver within such final period and this is not due to any circumstance for which the Purchaser is responsible, then the Purchaser may by notice in writing to the Supplier terminate the contract in respect of such part of the Product as cannot in consequence of the Supplier's failure to deliver be used as intended by the parties. If the Purchaser terminates the contract he shall be entitled to compensation for the loss he has suffered as a result of the Supplier's delay. The total compensation, including the liquidated damages which are payable under Clause 13, shall not exceed 15 per cent of that part of the purchase price which is attributable to the part of the Product in respect of which the contract is terminated.

The purchaser shall also have the right to terminate the contract by notice in writing to the Supplier, if it is clear from the circumstances that there will occur a delay in delivery which, under Clause 13 would entitle the Purchaser to maximum liquidated damages.

In case of termination on this ground, the Purchaser shall be entitled to maximum liquidated damages and compensation under the third paragraph of this Clause 14.

15. Liquidated damages under Clause 13 and termination of the contract with limited compensation under Clause 14 are the only remedies available to the Purchaser in case of delay on the part of the Supplier. All other claims against the Supplier based on such delay shall be excluded, except where the Supplier has been guilty of gross negligence.

In these General Conditions gross negligence shall mean an act or omission implying either a failure to pay due regard to serious consequences, which a conscientious supplier would normally foresee as likely to ensue, or a deliberate disregard of the consequences of such act or omission.

16. If the Purchaser anticipates that he will be unable to accept delivery of the Product at the delivery time, he shall forthwith notify the Supplier in writing thereof, stating the reason and, if possible, the time when he will be able to accept delivery.

If the Purchaser fails to accept delivery at the delivery time, he shall nevertheless pay any part of the purchase price which becomes due on delivery, as if delivery had taken place.

The Supplier shall arrange for storage of the Product at the risk and expense of the Purchaser. The Supplier shall also, if the Purchaser so requires, insure the Product at the Purchaser's expense.

17. Unless the Purchaser's failure to accept delivery is due to any such circumstance as mentioned in Clause 39, the Supplier may by notice in writing require the Purchaser to accept delivery within a final reasonable period.

If, for any reason for which the Supplier is not responsible, the Purchaser fails to accept delivery within such period, the Supplier may by notice in writing terminate the contract in whole or in part. The Supplier shall then be entitled to compensation for the loss he has suffered by reason of the Purchaser's default. The compensation shall not exceed that part of the purchase price which is attributable to that part of the Product in respect of which the contract is terminated.

PAYMENT

18. Unless otherwise agreed, the purchase price shall be paid with one third at the formation of the contract and one third when the Supplier notifies the Purchaser that the Product, or the essential part of it, is ready for delivery. Final payment shall be made when the Product is delivered.

Payments shall be made within 30 days of the date of the invoice.

19. Whatever the means of payment used, payment shall not be deemed to have been effected before the Supplier's account has been fully and irrevocably credited.

20. If the Purchaser fails to pay by the stipulated date, the Supplier shall be entitled to interest from the day on which payment was due. The rate of interest shall be as agreed between the parties. If the parties fail to agree on the rate of interest, it shall be 8 percentage points above the rate of the main refinancing facility of the European Central Bank in force on the due date of payment.

In case of late payment the Supplier may, after having notified the Purchaser in writing, suspend his performance of the contract until he receives payment.

If the Purchaser has not paid the amount due within three months the Supplier shall be entitled to terminate the contract by notice in writing to the Purchaser and to claim compensation for the loss he has incurred. The compensation shall not exceed the agreed purchase price.

RETENTION OF TITLE

21. The Product shall remain the property of the Supplier until paid for in full to the extent that such retention of title is valid under the applicable law.

The Purchaser shall at the request of the Supplier assist him in taking any measures necessary to protect the Supplier's title to the Product in the country concerned.

The retention of title shall not affect the passing of risk under Clause 9.

LIABILITY FOR DEFECTS

22. Pursuant to the provisions of Clauses 23-37 inclusive, the Supplier shall remedy any defect or nonconformity (hereinafter termed defect(s)) resulting from faulty design, materials or workmanship.

23. The Supplier's liability is limited to defects which appear within a period of one year from delivery. If the daily use of the Product exceeds that which is agreed, this period shall be reduced proportionately.

24. When a defect in a part of the Product has been remedied, the Supplier shall be liable for defects in the repaired or replaced part under the same terms and conditions as those applicable to the original Product for a period of one year. For the remaining parts of the Product the period mentioned in Clause 23 shall be extended only by a period equal to the period during which the Product has been out of operation as a result of the defect.

25. The Purchaser shall without undue delay notify the Supplier in writing of any defect which appears. Such notice shall under no circumstance be given later than two weeks after the expiry of the period given in Clause 23.

The notice shall contain a description of the defect.

If the Purchaser fails to notify the Supplier in writing of a defect within the time limits set forth in the first paragraph of this Clause, he loses his right to have the defect remedied. Where the defect is such that it may cause damage, the Purchaser shall immediately inform the Supplier in writing. The Purchaser shall bear the risk of damage resulting from his failure so to notify.

26. On receipt of the notice under Clause 25 the Supplier shall remedy the defect without undue delay and at his own cost as stipulated in Clauses 22-37 inclusive.

Repair shall be carried out at the place where the Product is located unless the Supplier deems it appropriate that the defective part or the Product is returned to him for repair or replacement.

The Supplier is obliged to carry out dismantling and reinstallation of the part if this requires special knowledge. If such special knowledge is not required, the Supplier has fulfilled his obligations in respect of the defect when he delivers to the Purchaser a duly repaired or replaced part.

27. If the Purchaser has given such notice as mentioned in Clause 25 and no defect is found for which the Supplier is liable, the Supplier shall be entitled to compensation for the costs he has incurred as a result of the notice.

28. The Purchaser shall at his own expense arrange for any dismantling and reassembly of equipment other than the Product, to the extent that this is necessary to remedy the defect.

29. Unless otherwise agreed, necessary transport of the Product and/or parts thereof to and from the Supplier in connection with the remedying of defects for which the Supplier is liable shall be at the risk and expense of the Supplier. The Purchaser shall follow the Supplier's instructions regarding such transport.

30. Unless otherwise agreed, the Purchaser shall bear any additional costs which the Supplier incurs for repair, dismantling, installation and transport as a result of the Product being located in a place other than the destination stated in the contract or - if no destination is stated - the place of delivery.

31. Defective parts which have been replaced shall be made available to the Supplier and shall be his property.

32. If, within a reasonable time, the Supplier does not fulfil his obligations under Clause 26, the Purchaser may by notice in writing fix a final time for completion of the Supplier's obligations.

If the Supplier fails to fulfil his obligations within such final time, the Purchaser may himself undertake or employ a third party to undertake necessary remedial works at the risk and expense of the Supplier.

Where successful remedial works have been undertaken by the Purchaser or a third party, reimbursement by the Supplier of reasonable costs incurred by the Purchaser shall be in full settlement of the Supplier's liabilities for the said defect.

33. Where the defect has not been successfully remedied, as stipulated under Clause 32,

a) the Purchaser is entitled to a reduction of the purchase price in proportion to the reduced value of the Product, provided that under no circumstance shall such reduction exceed 15 per cent of the purchase price, or

b) where the defect is so substantial as to significantly deprive the Purchaser of the benefit of the contract, the Purchaser may terminate the contract by notice in writing to the Supplier. The Purchaser is then entitled to compensation for the loss he has suffered up to a maximum of 15 per cent of the purchase price.

34. The Supplier is not liable for defects arising out of materials provided, or a design stipulated or specified by the Purchaser.

35. The Supplier is liable only for defects which appear under the conditions of operation provided for in the contract and under proper use of the Product.

The Supplier's liability does not cover defects which are caused by faulty maintenance, incorrect erection or faulty repair by the Purchaser, or by alterations carried out without the Supplier's consent in writing.

Finally the Supplier's liability does not cover normal wear and tear or deterioration.

36. Notwithstanding the provisions of Clauses 22-35 the Supplier shall not be liable for defects in any part of the Product for more than two years from the beginning of the period given in Clause 23.

37. Save as stipulated in Clauses 22-36, the Supplier shall not be liable for defects. This applies to any loss the defect may cause including loss of production, loss of profit and other indirect loss. This limitation of the Supplier's liability shall not apply if he has been guilty of gross negligence as defined in Clause 15.

ALLOCATION OF LIABILITY FOR DAMAGE CAUSED BY THE PRODUCT

38. The supplier shall not be liable for any damage to property caused by the Product after it has been delivered and whilst it is in the possession of the Purchaser. Nor shall the Supplier be liable for any damage to products manufactured by the Purchaser, or to products of which the Purchaser's products form a part.

If the Supplier incurs liability towards any third party for such damage to property as described in the preceding paragraph, the Purchaser shall indemnify, defend and hold the Supplier harmless.

If a claim for damage as described in this Clause is lodged by a third party against one of the parties, the latter party shall forthwith inform the other party thereof in writing.

The supplier and the Purchaser shall be mutually obliged to let themselves be summoned to the court or arbitral tribunal examining claims for damages lodged against one of them on the basis of damage allegedly caused by the Product.

The limitation of the Supplier's liability in the first paragraph of this Clause shall not apply where the Supplier has been guilty of gross negligence as defined in Clause 15.

FORCE MAJEURE

39. Either party shall be entitled to suspend performance of his obligations under the contract to the extent that such performance is impeded or made unreasonably onerous by any of the following circumstances: industrial disputes and any other circumstance beyond the control of the parties such as fire, war, extensive military mobilization, insurrection, requisition, seizure, embargo, restrictions in the use of power and defects or delays in deliveries by sub-contractors caused by any such circumstance referred to in this Clause. A circumstance referred to in this Clause whether occurring prior to or after the formation of the contract shall give a right to suspension only if its effect on the performance of the contract could not be foreseen at the time of the formation of the contract.

40. The party claiming to be affected by Force Majeure shall notify the other party in writing without delay on the intervention and on the cessation of such circumstance.

If Force Majeure prevents the Purchaser from fulfilling his obligations, he shall compensate the Supplier for expenses incurred in securing and protecting the Product.

41. Regardless of what might otherwise follow from these General Conditions, either party shall be entitled to terminate the contract by notice in writing to the other party if performance of the contract is suspended under Clause 39 for more than six months.

General conditions

for the supply of mechanical, electrical and electronic products
Brussels, August 2000

ANTICIPATED NON-PERFORMANCE

42. Notwithstanding other provisions in these General Conditions regarding suspension, each party shall be entitled to suspend the performance of his obligations under the contract, where it is clear from the circumstances that the other party will not be able to

perform his obligations. A party suspending his performance of the contract shall forthwith notify the other party thereof in writing.

CONSEQUENTIAL LOSSES

43. Save as otherwise stated in these General Conditions there shall be no liability for either party towards the other party for loss of production, loss of profit, loss of use, loss of contracts or for any other consequential or indirect loss whatsoever.

DISPUTES AND APPLICABLE LAW

44. All disputes arising out of or in connection with the contract shall be finally settled under the Rules of Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with the said rules.

45. The contract shall be governed by the substantive law of the Supplier's country.

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TR251705	66644	8	0509010	8-5	ZA123	38471	7	0701010	12-6	ZX357	61357	2	0711010	12-30	ZX688	46268	2	0713010	12-27
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TR254100	66632	5	0509010	7-6	ZA6	38227	0	0701010	12-6	ZX39	60213	2	0701010	12-30	ZX694	46460	0	0713010	12-27
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TR254800	66368	3	0509010	7-10	ZH130	60490	7	0701010	12-16	ZX398P10	62587	2	0701010	12-29	ZX696	46902	5	0713010	12-27
TR254801	66369	0	0509010	8-10	ZH131	60491	4	0701010	12-16						ZX697	46903	2	0713010	12-27
TR254900	66371	3	0509010	7-10	ZH132	60492	1	0701010	12-16	ZX412	61412	8	0711010	12-30	ZX698	46904	9	0713010	12-27
TR254901	66372	0	0509010	8-10	ZH133	60493	8	0701010	12-16	ZX413	61413	5	0711010	12-30					
					ZH134	60494	5	0701010	12-16	ZX414	61414	2	0711010	12-30	ZX714P10	68681	1	0701010	12-29
TR255004	66627	1	0509010	7-11	ZH135	60495	2	0701010	12-16	ZX415	61415	9	0711010	12-30	ZX721P10	62595	7	0701010	12-29
TR255005	66646	2	0509010	8-11	ZH136	60496	9	0701010	12-16	ZX416	61416	6	0711010	12-30	ZX722P10	46252	1	0710010	12-29
TR255100	66637	0	0509010	7-11	ZH137	60497	6	0701010	12-16	ZX417	61417	3	0711010	12-30	ZX723P10	46301	6	0701010	12-29
TR255101	66656	1	0509010	8-11	ZH138	60498	3	0701010	12-17	ZX418	61418	0	0711010	12-30	ZX724P10	46253	8	0710010	12-29
					ZH139	60499	0	0701010	12-17	ZX419	61419	7	0711010	12-30	ZX725P10	66357	7	0701010	12-29
TR25520012	65642	5	0509010	7-8	ZH140	60500	3	0701010	12-17	ZX420	61420	3	0711010	12-30	ZX726P10	46254	5	0710010	12-29
TR25520016	65643	2	0509010	7-8	ZH141	60501	0	0701010	12-17	ZX421	61421	0	0711010	12-30	ZX728P10	46434	1	0713010	12-29
TR25520020	65644	9	0509010	7-8	ZH142	60502	7	0701010	12-17	ZX422	61422	7	0711010	12-30	ZX744P10	62607	7	0701010	12-29
TR25520112	65645	6	0509010	8-8	ZH143	60503	4	0701010	12-16	ZX423	61423	4	0711010	12-30	ZX746P10	62613	8	0701010	12-29
TR25520116	65646	3	0509010	8-8	ZH157	60657	4	0701010	12-16	ZX424	61424	1	0711010	12-30	ZX748P10	62616	9	0701010	12-29
TR25520120	65647	0	0509010	8-8	ZH158	60658	1	0701010	12-16	ZX425	61425	8	0711010	12-30	ZX762P10	62618	3	0701010	12-29
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