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**VX25 Ri4Power – Schalt- und
Energieverteilanlagen-System**

**VX25 Ri4Power – Switchgear and
power distribution system**

**VX25 Ri4Power – Distribution de
courant**

Montageanleitung

Assembly instructions

Notice de montage

ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP





Inhaltsverzeichnis

Contents

Sommaire

DE

Abkürzungsverzeichnis	11
1. Hinweise zur Dokumentation	12
1.1 Aufbewahrung der Unterlagen	12
1.2 Verwendete Symbole	12
1.3 Mitgelieferte Unterlagen	13
1.4 Technische Daten	13
1.5 Bemaßungen	13
1.6 Abmessungen der Schränke	14
2. Sicherheitshinweise	15
3. Systembeschreibung VX25 Ri4Power	36
3.1 Allgemeines	36
3.2 Das ACB-Feld	36
3.3 Das Abgangsfeld	36
3.4 Die Form 2b	37
3.5 Das Koppelfeld	37
3.6 Das Lastschaltleistenfeld	38
3.7 Das Kabelrangierfeld	38
3.8 Das Verteilsammelschienenfeld	38
3.9 Das Hochführungsfeld	38
3.10 Das Eckfeld	39
3.11 Das Leerfeld	39
4. Montage Hauptsammelschienensystem	40
4.1 Aufbauvarianten Dachbereich	40
4.2 Aufbauvarianten Rückbereich	41
4.3 Bestückung Sammelschienenhalter 30x10 Dachbereich	42
4.4 Bestückung Sammelschienenhalter 50x10 Dachbereich – System A	43
4.5 Bestückung Sammelschienenhalter 50x10 Dachbereich – System A und B	44
4.6 Bestückung Sammelschienenhalter 30x10 Dachbereich mit Montageplatte VX25 (Position: ±0 mm)	45
4.7 Bestückung Sammelschienenhalter 50x10 Dachbereich mit Montageplatte VX25 (Position: ±0 mm)	46
4.8 Bestückung Sammelschienenhalter 50x10 Rückbereich	47
4.9 Verfügbare Klemm- und Anschlussraum Rückbereich	48
4.10 Auswahl E-Cu Sammelschienen L1, L2, L3 und N	49
4.11 Abmessungen E-Cu Sammelschienen L1, L2, L3 und N für alle drei Schrankvarianten	50
4.12 Auswahl Sammelschienenhalter	51
4.13 Sammelschienenhalter im Dachbereich für IEC-Anwendung – System A	52
4.14 Sammelschienenhalter im Dachbereich für IEC-Anwendung – System B	53
4.15 Sammelschienenhalter im Dachbereich für alternative Anwendung – System A	54
4.16 Sammelschienenhalter im Dachbereich für alternative Anwendung – System B	56
4.17 Sammelschienenhalter mit Montageplatte VX25 (Position: ±0 mm)	58
4.18 Sammelschienenhalter im Rückbereich	59
4.19 Endabdeckung Sammelschienenhalter für Dach- und Rückbereich	60
4.20 Anreihung 2 Sammelschienen 30x10 im Dachbereich	61
4.21 Anreihung 4 Sammelschienen 30x10 im Dachbereich	63
4.22 Anreihung 1 Sammelschiene 50x10 im Dachbereich	65

EN

Table of abbreviations	11
1. Notes on documentation	12
1.1 Storing the documents	12
1.2 Symbols used	12
1.3 Other applicable documents	13
1.4 Technical specifications	13
1.5 Dimensioning	13
1.6 Enclosure dimensions	14
2. Safety instructions	15
3. System description – VX25 Ri4Power	36
3.1 General	36
3.2 The ACB section	36
3.3 The outgoing section	36
3.4 The Form 2b	37
3.5 The coupling section	37
3.6 The fuse-switch disconnection section	38
3.7 The cable chamber	38
3.8 The distribution busbar section	38
3.9 The riser section	38
3.10 The corner section	39
3.11 The empty panel	39
4. Assembling the main busbar system	40
4.1 Assembly variants – Roof section	40
4.2 Assembly variants – Rear section	41
4.3 Configuring the busbar support, 30x10 – Roof section	42
4.4 Configuring the busbar support, 50x10 – Roof section – System A	43
4.5 Configuring the busbar support, 50x10 – Roof section – System A and B	44
4.6 Configuring the busbar support 30x10, roof section, with mounting plate VX25 (position: ±0 mm)	45
4.7 Configuring the busbar support 50x10, roof section, with mounting plate VX25 (position: ±0 mm)	46
4.8 Configuring the busbar support, 50x10 – Rear section	47
4.9 Available terminal and connection space – Rear section	48
4.10 Selecting the E-Cu busbars L1, L2, L3 and N	49
4.11 Dimensions of the E-Cu busbars L1, L2, L3 and N to length for all three enclosure variants	50
4.12 Selecting the busbar supports	51
4.13 Busbar support in roof section for IEC application – System A	52
4.14 Busbar support in roof section for IEC application – System B	53
4.15 Busbar support in roof section for alternative application – System A	54
4.16 Busbar support in roof section for alternative application – System B	56
4.17 Busbar support with mounting plate VX25 (position: ±0 mm)	58
4.18 Busbar support in the rear section	59
4.19 Busbar support end cover for the roof and rear section	60
4.20 Baying 2 busbars 30x10 in the roof section	61
4.21 Baying 4 busbars 30x10 in the roof section	63
4.22 Baying 1 busbar 50x10 in the roof section	65

FR

Répertoire des abréviations	11
1. Remarques relatives à la documentation	12
1.1 Conservation des documents	12
1.2 Symboles utilisés	12
1.3 Autres documents applicables	13
1.4 Caractéristiques techniques	13
1.5 Dimensions	13
1.6 Dimensions des armoires	14
2. Consignes de sécurité	15
3. Description du système VX25 Ri4Power	36
3.1 Généralités	36
3.2 La zone des disjoncteurs de puissance	36
3.3 La zone des départs	36
3.4 La forme 2b	37
3.5 La zone de raccordement	37
3.6 La zone de coupe-circuits	38
3.7 La zone de rangement de câbles	38
3.8 La zone des jeux de barres de distribution	38
3.9 La zone de cheminement vertical	38
3.10 La zone d'angle	39
3.11 La zone vide	39
4. Montage des jeux de barres principaux	40
4.1 Variantes de montage sous le toit	40
4.2 Variantes de montage dans la partie arrière	41
4.3 Équipement du support de jeux de barres 30x10 sous le toit	42
4.4 Équipement du support de jeux de barres 50x10 sous le toit – Système A	43
4.5 Équipement du support de jeux de barres 50x10 sous le toit – Système A et B	44
4.6 Équipement du support de jeux de barres 30x10 sous le toit avec plaque de montage VX25 (position : ±0 mm)	45
4.7 Équipement du support de jeux de barres 50x10 sous le toit avec plaque de montage VX25 (position : ±0 mm)	46
4.8 Équipement du support de jeux de barres 50x10 dans la partie arrière	47
4.9 Zone de serrage et de raccordement disponible dans la partie arrière	48
4.10 Sélection des jeux de barres E-Cu L1, L2, L3 et N	49
4.11 Dimension des jeux de barres E-Cu L1, L2, L3 et N pour les trois variantes d'armoire	50
4.12 Sélection des supports de jeux de barres	51
4.13 Support de jeux de barres sous le toit pour application CEI – Système A	52
4.14 Support de jeux de barres sous le toit pour application CEI – Système B	53
4.15 Support de jeux de barres sous le toit pour application alternative – Système A	54
4.16 Support de jeux de barres sous le toit pour application alternative – Système B	56
4.17 Support de jeux de barres avec plaque de montage VX25 (position : ±0 mm)	58
4.18 Support de jeux de barres dans la partie arrière	59
4.19 Couvercle d'extrémité de support de jeux de barres sous le toit et dans la partie arrière	60
4.20 Juxtaposition de 2 jeux de barres 30x10 sous le toit	61
4.21 Juxtaposition de 4 jeux de barres 30x10 sous le toit	63



Inhaltsverzeichnis

Contents

Sommaire

DE

4.23	Anreihung 2 Sammelschienen 50x10 im Dachbereich	67
4.24	Anreihung 4 Sammelschienen 50x10 im Dachbereich	69
4.25	Anreihung 2x 4 Sammelschienen 50x10 im Dachbereich	71
4.26	Anreihung 2 Sammelschienen im Rückbereich	73
4.27	Anreihung 4 Sammelschienen im Rückbereich	75
5.	Montage N-Sammelschienensystem	77
5.1	Montage Sammelschienenhalter N unten (4x 50x10)	77
5.2	Montage Sammelschienenhalter N unten (2x 4x 50x10)	78
5.3	Einlegen der E-Cu Sammelschienen N unten (4x 50x10)	80
5.4	Transportsicherung der Sammelschienen N (2x 50x10) und/oder Endausbau Einzelfeld	81
5.5	Transportsicherung der Sammelschienen N (4x 50x10) und/oder Endausbau Einzelfeld	82
5.6	Transportsicherung der Sammelschienen N (2x 4x 50x10) und/oder Endausbau Einzelfeld	83
5.7	Anreihung der E-Cu Sammelschienen N unten (2x 50x10)	84
5.8	Anreihung der E-Cu Sammelschienen N unten (4x 50x10)	86
5.9	Anreihung der E-Cu Sammelschienen N unten (2x 4x 50x10)	88
5.10	Verfügbare Klemm- und Anschlussraum auf der N-Sammelschiene (bis 4x 50x10)	90
5.11	Brückung E-Cu Sammelschienen N oben und unten (2x 4x 50x10)	91
5.12	Verfügbare Klemm- und Anschlussraum auf der N-Sammelschiene (2x 4x 50x10)	92
6.	Montage PE/PEN-Sammelschienen-system	93
6.1	Montage PE/PEN Befestigungswinkel	93
6.2	Montage PE/PEN-Sammelschiene (bis zu 4x 1x80 mm)	94
6.3	Anreihung PE/PEN-Sammelschiene (bis zu 4x 1x80 mm)	95
6.4	Montage PE/PEN-Sammelschiene (bis zu 4x 2x40 mm)	96
6.5	Anreihung PE/PEN-Sammelschiene (bis zu 4x 2x40 mm)	97
6.6	Verfügbare Klemm- und Anschlussraum auf der PE/PEN-Sammelschiene	98
7.	Montage Anschlusstechnik	99
7.1	2 Verteilsammelschienen vertikal – Direktanschlussklemme	99
7.2	2 Verteilsammelschienen vertikal – Anschlussplatten für Bolzen M10	100
7.3	2 Verteilsammelschienen vertikal – Anschlussplatten zum Anschluss von lamellierten Flachkupferschienen	101
7.4	4 Verteilsammelschienen vertikal – Direktanschlussklemme	102
7.5	4 Verteilsammelschienen vertikal – Anschlussplatten für Bolzen M10	103
7.6	4 Verteilsammelschienen vertikal – Anschlussplatten zum Anschluss von lamellierten Flachkupferschienen	104

EN

4.23	Baying 2 busbars 50x10 in the roof section	67
4.24	Baying 4 busbars 50x10 in the roof section	69
4.25	Baying 2x 4 busbars 50x10 in the roof section	71
4.26	Baying 2 busbars in the rear section	73
4.27	Baying 4 busbars in the rear section	75
5.	Assembling the N busbar system	77
5.1	Fitting the N busbar supports, bottom (4x 50x10)	77
5.2	Fitting the N busbar supports, bottom (2x 4x 50x10)	78
5.3	Inserting the E-Cu N busbars, bottom (4x 50x10)	80
5.4	Shipping brace for N busbars (2x 50x10) and/or ultimate configuration of single section	81
5.5	Shipping brace for N busbars (4x 50x10) and/or ultimate configuration of single section	82
5.6	Shipping brace for N busbars (2x 4x 50x10) and/or ultimate configuration of single section	83
5.7	Baying the E-Cu N busbars, bottom (2x 50x10)	84
5.8	Baying the E-Cu N busbars, bottom (4x 50x10)	86
5.9	Baying the E-Cu N busbars, bottom (2x 4x 50x10)	88
5.10	Available terminal and connection space on the N busbar (up to 4x 50x10)	90
5.11	Bridging the E-Cu N busbars, top and bottom (2x 4x 50x10)	91
5.12	Available terminal and connection space on the N busbar (2x 4x 50x10)	92
6.	Assembling the PE/PEN busbar system	93
6.1	Fitting the PE/PEN mounting brackets	93
6.2	Fitting the PE/PEN busbar (up to 4x 1x80 mm)	94
6.3	Baying the PE/PEN busbar (up to 4x 1x80 mm)	95
6.4	Fitting the PE/PEN busbar (up to 4x 2x40 mm)	96
6.5	Baying the PE/PEN busbar (up to 4x 2x40 mm)	97
6.6	Available terminal and connection space on the PE/PEN busbar	98
7.	Installing the connection system	99
7.1	2 vertical distribution busbars – Direct connection terminal	99
7.2	2 vertical distribution busbars – Connection plates for M10 bolts	100
7.3	2 vertical distribution busbars – Connection plates for connecting laminated flat copper bars	101
7.4	4 vertical distribution busbars – Direct connection terminal	102
7.5	4 vertical distribution busbars – Connection plates for M10 bolts	103
7.6	4 vertical distribution busbars – Connection plates for connecting laminated flat copper bars	104
7.7	4 vertical distribution busbars – Connection set with filler piece	105
7.8	4 vertical distribution busbars – Filler piece and screw connection	107

FR

4.22	Juxtaposition d'1 jeu de barres 50x10 sous le toit	65
4.23	Juxtaposition de 2 jeux de barres 50x10 sous le toit	67
4.24	Juxtaposition de 4 jeux de barres 50x10 sous le toit	69
4.25	Juxtaposition de 2x 4 jeux de barres 50x10 sous le toit	71
4.26	Juxtaposition de 2 jeux de barres dans la partie arrière	73
4.27	Juxtaposition de 4 jeux de barres dans la partie arrière	75
5.	Montage des jeux de barres Neutre	77
5.1	Montage des supports de jeux de barres Neutre en bas (4x 50x10)	77
5.2	Montage des supports de jeux de barres Neutre en bas (2x 4x 50x10)	78
5.3	Insertion des jeux de barres E-Cu Neutre en bas (4x 50x10)	80
5.4	Blocage des jeux de barres Neutre (2x 50x10) et/ou montage final sur cellule isolée pour le transport	81
5.5	Blocage des jeux de barres Neutre (4x 50x10) et/ou montage final sur cellule isolée pour le transport	82
5.6	Blocage des jeux de barres Neutre (2x 4x 50x10) et/ou montage final sur cellule isolée pour le transport	83
5.7	Juxtaposition des jeux de barres E-Cu Neutre en bas (2x 50x10)	84
5.8	Juxtaposition des jeux de barres E-Cu Neutre en bas (4x 50x10)	86
5.9	Juxtaposition des jeux de barres E-Cu Neutre en bas (2x 4x 50x10)	88
5.10	Zone de serrage et de raccordement disponible sur le jeu de barres Neutre (jusqu'à 4x 50x10)	90
5.11	Pontage des jeux de barres E-Cu Neutre en haut et en bas (2x 4x 50x10)	91
5.12	Zone de serrage et de raccordement disponible sur le jeu de barres Neutre (2x 4x 50x10)	92
6.	Montage des jeux de barres Terre/ Terre-Neutre	93
6.1	Montage des équerres de fixation Terre/ Terre-Neutre	93
6.2	Montage du jeu de barres Terre/ Terre-Neutre (jusqu'à 4x 1x80 mm)	94
6.3	Juxtaposition du jeu de barres Terre/ Terre-Neutre (jusqu'à 4x 1x80 mm)	95
6.4	Montage du jeu de barres Terre/ Terre-Neutre (jusqu'à 4x 2x40 mm)	96
6.5	Juxtaposition du jeu de barres Terre/ Terre-Neutre (jusqu'à 4x 2x40 mm)	97
6.6	Zone de serrage et de raccordement disponible sur le jeu de barres Terre/ Terre-Neutre	98
7.	Montage des raccordements	99
7.1	2 jeux de barres de distribution verticaux – borne de raccordement direct	99
7.2	2 jeux de barres de distribution verticaux – plaques de raccordement pour boulons M10	100
7.3	2 jeux de barres de distribution verticaux – plaques de raccordement pour raccorder les barres de cuivre plates lamellées	101



Inhaltsverzeichnis

Contents

Sommaire

DE	EN	FR
7.7 4 Verteilsammelschienen vertikal – Anschluss-Set mit Füllstück 105	7.9 2 N busbars – Conductor connection clamps 108	7.4 4 jeux de barres de distribution verticaux – borne de raccordement direct 102
7.8 4 Verteilsammelschienen vertikal – Füllstück und Schraubverbindung 107	7.10 2 N busbar supports – Conductor connection clamps, push-in 110	7.5 4 jeux de barres de distribution verticaux – plaques de raccordement pour boulons M10 103
7.9 2 Sammelschienen N – Leiteranschlussklemmen 108	7.11 4 N busbars – Conductor connection clamps 111	7.6 4 jeux de barres de distribution verticaux – plaques de raccordement pour raccorder les barres de cuivre plates lamellées 104
7.10 2 Sammelschienen N – Leiteranschlussklemmen Push-In 110	7.12 4 N busbar supports – Conductor connection clamps, push-in 112	7.7 4 jeux de barres de distribution verticaux – kit de raccordement avec obturateur 105
7.11 4 Sammelschienen N – Leiteranschlussklemmen 111	7.13 4 N busbars – Direct connection terminal 113	7.8 4 jeux de barres de distribution verticaux – obturateur et connexion vissée 107
7.12 4 Sammelschienen N – Leiteranschlussklemmen Push-In 112	7.14 4 N busbars – Connection plates for M10 bolts 114	7.9 2 jeux de barres Neutre – bornes pour raccordement de câbles 108
7.13 4 Sammelschienen N – Direktanschlussklemme 113	7.15 4 busbars N – Connection plates for connecting laminated flat copper bars 115	7.10 2 jeux de barres Neutre – bornes pour raccordement de câbles Push-in 110
7.14 4 Sammelschienen N – Anschlussplatten für Bolzen M10 114	7.16 1 PE/PEN busbar up to 1x80 mm – Conductor connection clamps for 5 and 10 mm bar width 116	7.11 4 jeux de barres Neutre – bornes pour raccordement de câbles 111
7.15 4 Sammelschienen N – Anschlussplatten zum Anschluss von lamellierten Flachkupferschienen 115	7.17 1 PE/PEN busbar up to 1x80 mm – Push-in for 5 and 10 mm bar thickness 118	7.12 4 jeux de barres Neutre – bornes pour raccordement de câbles Push-in 112
7.16 1 Sammelschiene PE/PEN bis 1x80 mm – Leiteranschlussklemmen für 5 und 10 mm Schienenbreite 116	7.18 1 PE/PEN busbar up to 1x80 mm – Plate clamps for 5 and 10 mm bar thickness 119	7.13 4 jeux de barres Neutre – borne de raccordement direct 113
7.17 1 Sammelschiene PE/PEN bis 1x80 mm – Push-In für 5 und 10 mm Schienenstärke 118	7.19 1 PE/PEN busbar for 30x5 mm and 30x10 mm – Connection block 120	7.14 4 jeux de barres Neutre – plaques de raccordement pour boulons M10 114
7.18 1 Sammelschiene PE/PEN bis 1x80 mm – Plattenklemmen für 5 und 10 mm Schienenstärke 119	7.20 1 PE/PEN busbar up to 1x80 mm – Connection block 1000 – 1600 A 122	7.15 4 jeux de barres Neutre – plaques de raccordement pour raccorder les barres de cuivre plates lamellées 115
7.19 1 Sammelschiene PE/PEN für 30x5 mm und 30x10 mm – Anschlussblock 120	7.21 2 PE/PEN busbars up to 1x80 mm – Conductor connection clamps 123	7.16 1 jeu de barres Terre/Terre-Neutre de dimensions jusqu'à 1x80 mm – bornes pour raccordement de câbles pour largeur de barre de 5 et 10 mm 116
7.20 1 Sammelschiene PE/PEN bis 1x80 mm – Anschlussblock 1000 – 1600 A 122	7.22 2 PE/PEN busbars up to 1x80 mm – Conductor connection clamps, push-in 124	7.17 1 jeu de barres Terre/Terre-Neutre de dimensions jusqu'à 1x80 mm – Push-in pour épaisseur de barre de 5 et 10 mm 118
7.21 2 Sammelschienen PE/PEN bis 1x80 mm – Leiteranschlussklemmen 123	7.23 2 PE/PEN busbars up to 1x80 mm – Direct connection terminals for 10 mm bar width 125	7.18 1 jeu de barres Terre/Terre-Neutre de dimensions jusqu'à 1x80 mm – brides de raccordement pour épaisseur de barre de 5 et 10 mm 119
7.22 2 Sammelschienen PE/PEN bis 1x80 mm – Leiteranschlussklemmen Push-In 124	7.24 2 PE/PEN busbars up to 1x80 mm – Connection plates (M10 bolts) for 10 mm bar width 126	7.19 1 jeu de barres Terre/Terre-Neutre de dimensions 30x5 mm et 30x10 mm – bloc de raccordement 120
7.23 2 Sammelschienen PE/PEN bis 1x80 mm – Direktanschlussklemme für 10 mm Schienenbreite 125	7.25 2 PE/PEN busbars up to 1x80 mm – Connection plates for connecting laminated flat copper bars with 10 mm bar width 127	7.20 1 jeu de barres Terre/Terre-Neutre de dimensions jusqu'à 1x80 mm – bloc de raccordement 1000 – 1600 A 122
7.24 2 Sammelschienen PE/PEN bis 1x80 mm – Anschlussplatten (Bolzen M10) für 10 mm Schienenbreite 126	7.26 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Direct connection terminals 128	7.21 2 jeux de barres Terre/Terre-Neutre de dimensions jusqu'à 1x80 mm – bornes pour raccordement de câbles 123
7.25 2 Sammelschienen PE/PEN bis 1x80 mm – Anschlussplatten zum Anschluss von lamellierten Flachkupferschienen für 10 mm Schienenbreite 127	7.27 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Connection bolts M12 and M16 129	7.22 2 jeux de barres Terre/Terre-Neutre de dimensions jusqu'à 1x80 mm – bloc de raccordement Push-in 124
7.26 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Direktanschlussklemmen 128	7.28 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Sliding blocks with threaded bolts M8 / M10 / M12 130	7.23 2 jeux de barres Terre/Terre-Neutre de dimensions jusqu'à 1x80 mm – borne de raccordement direct pour largeur de barre de 10 mm 125
7.27 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Anschlussbolzen M12 und M16 129	7.29 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Sliding nuts with threaded bolts M6 – M12 131	7.24 2 jeux de barres Terre/Terre-Neutre de dimensions jusqu'à 1x80 mm – plaques de raccordement (boulon M10) pour largeur de barre de 10 mm 126
7.28 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Nutensteine mit Gewindebolzen M8 / M10 / M12 130	7.30 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Connection plates for connecting laminated flat copper bars 133	7.25 2 jeux de barres Terre/Terre-Neutre de dimensions jusqu'à 1x80 mm – plaques de raccordement pour raccorder les barres de cuivre plates lamellées de largeur 10 mm 127
7.29 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Gleitmutter mit Gewindebolzen M6 – M12 131	8. Fitting the roof plate 134	7.26 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – bornes de raccordement direct 128
7.30 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Anschlussplatten zum Anschluss von lamellierten Flachkupferschienen 133	8.1 Roof plate IP 55, solid 134	7.27 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – boulons de raccordement M12 et M16 129
8. Montage Dachblech 134	8.2 Roof plate IP 2X, with ventilation hole 135	
8.1 Dachblech IP 55, geschlossen 134	8.3 Roof plate for cable entry glands 136	
8.2 Dachblech IP 2X, mit Belüftungsöffnung 135	8.4 Roof plate with additional centre fixing attachment – Enclosure width > 800 mm 138	
8.3 Dachblech für Kabeleinführungsflansche 136	9. Installing forced ventilation 139	
8.4 Dachblech mit zusätzlicher Mittenebefestigung – Schrankbreite > 800 mm 138	9.1 Forced ventilation for ACB section – Fan 292 mm (front trim panel, bottom, 100 mm) 139	
	9.2 Forced ventilation for ACB section – Fan 292 mm (front trim panel, bottom, 300 mm) 140	



Inhaltsverzeichnis

Contents

Sommaire

DE

9. Montage Zwangsbelüftung	139
9.1 Zwangsbelüftung für ACB-Feld – Lüfter 292 mm (Frontblende unten 100 mm)	139
9.2 Zwangsbelüftung für ACB-Feld – Lüfter 292 mm (Frontblende unten 300 mm)	140
9.3 Zwangsbelüftung für ACB-Feld – Austrittsfilter 292 mm (Frontblende oben 100 mm)	141
9.4 Zwangsbelüftung für Abgangs- und ACB-Feld – Austrittsfilter 177 mm (Frontblende oben 300 mm)	142
9.5 Zwangsbelüftung für Abgangsfeld – Lüfter 177 mm (Frontblende unten 300 mm)	143
9.6 Zwangsbelüftung für Abgangsfeld – Austrittsfilter 177 mm (Frontblende oben 300 mm)	144
10. Montage Verdrahtungskomponenten	145
10.1 Übersicht Verdrahtungsblende und Kabelkanäle	145
10.2 Vorbereitung und Montage der Funktionsraumteiler	146
10.3 Montage der Verdrahtungsblende	149
10.4 Montage der Tragprofilschiene	152
10.5 Montage eines Kabelkanalsystems – Anwendungsbeispiel	153
10.6 Zusatzinformationen Montage	155
11. Schutz Eigenschaft Störlichtbogen-klasse A	157
11.1 Dachblech – Druckstopfen	157
11.2 Austausch der Flachteilehalter im Bereich Rückwand	159
11.3 Einbau Seitenwände VX	163
11.4 Verstärkung Verschlussstange Doppeltür	166
12. Schutz Eigenschaft Störlichtbogen-klasse B	169
12.1 Rückbereich 185 mm Mitte mit Sammelschienenanreihung	169
12.2 Dachbereich 4-polig mit Sammelschienenanreihung – Schranktiefe 600 mm	174
12.3 Besonderheit Dachbereich – Schranktiefe 800 mm	179
12.4 Besonderheit Dachbereich – Schrankbreite 400 mm	181
12.5 Besonderheiten Dachbereich 3- und 4-poliges Sammelschienen-system 6300 A	182
12.6 Besonderheiten Dachbereich 3-polige Sammelschienen-systeme	183
13. Schutz Eigenschaft Störlichtbogen-klasse C	184
13.1 Aktives Störlichtbogensystem DEHNshort	184
14. Flachanschluss für ACB Leistungsschalter	185
14.1 Montage des Leistungsschalters – unterer Verbindungssatz	185
14.2 Montage des Leistungsschalters – oberer Verbindungssatz	190
14.3 Anziehen der Schrauben	192
14.4 Montage Funktionsraumteiler	193
14.5 Montage Kabelschuhe	195
14.6 Asymmetrisch montierter ACB Leistungsschalter	196
15. Werkzeuge	197
16. Ersatzteile	200
17. Garantie	200
18. Kundendienstadressen	200

EN

9.3 Forced ventilation for ACB section – Outlet filter 292 mm (front trim panel, top, 100 mm)	141
9.4 Forced ventilation for outgoing section and ACB section – Outlet filter 177 mm (front trim panel, top, 300 mm)	142
9.5 Forced ventilation for outgoing section – Fan 177 mm (front trim panel, bottom, 300 mm)	143
9.6 Forced ventilation for outgoing section – Outlet filter 177 mm (front trim panel, top, 300 mm)	144
10. Installing the wiring components	145
10.1 Overview of wiring panel and cable trunking	145
10.2 Preparing and fitting the compartment dividers	146
10.3 Fitting the wiring trim panel	149
10.4 Fitting the cross rail	152
10.5 Installing a cable trunking system – Application example	153
10.6 Additional information regarding installation	155
11. Protection property Arcing class A	157
11.1 Roof plate stoppers	157
11.2 Exchange of panel holders in the rear panel area	159
11.3 Installation of VX side panels	163
11.4 Reinforcement of double door locking bar	166
12. Protection property Arcing class B	169
12.1 Rear section, 185 mm centre with busbar baying	169
12.2 Roof section, 4-pole with busbar baying – enclosure depth 600 mm	174
12.3 Special feature of roof section – enclosure depth 800 mm	179
12.4 Special feature of roof section – enclosure width 400 mm	181
12.5 Special features of roof section, 3- and 4-pole busbar system 6300 A	182
12.6 Special features of roof section, 3-pole busbar systems	183
13. Protection property Arcing class C	184
13.1 Active arc fault protection system DEHNshort	184
14. Flat-type screw terminal for air circuit-breakers (ACB)	185
14.1 Fitting the circuit-breaker – Lower connector kit	185
14.2 Fitting the circuit-breaker – Upper connector kit	190
14.3 Tightening the screws	192
14.4 Fitting the compartment divider	193
14.5 Fitting the ring terminals	195
14.6 Air circuit-breakers (ACB) fitted asymmetrically	196
15. Tools	197
16. Spare parts	200
17. Warranty	200
18. Customer services addresses	200
A. Appendix	201
A.1 The roof area ACB section up to 4000 A	201
A.2 The roof area ACB section up to 6300 A	202
A.3 The rear area ACB section	203
A.4 The outgoing section	204

FR

7.28 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – coulisseaux avec boulons filetés M8 / M10 / M12	130
7.29 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – écrous coulissants avec boulons filetés M6 – M12	131
7.30 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – plaques de raccordement pour raccorder les barres de cuivre plates lamellées	133
8. Montage du toit	134
8.1 Toit IP 55 plein	134
8.2 Toit IP 2X avec ouïe d'aération	135
8.3 Toit pour plaque d'introduction de câbles	136
8.4 Toit avec fixation médiane complémentaire – largeur d'armoire > 800 mm	138
9. Montage de l'aération forcée	139
9.1 Aération forcée pour zone des disjoncteurs de puissance – ventilateur 292 mm (cache inférieur avant hauteur 100 mm)	139
9.2 Aération forcée pour zone des disjoncteurs de puissance – ventilateur 292 mm (cache inférieur avant hauteur 300 mm)	140
9.3 Aération forcée pour zone des disjoncteurs de puissance – filtre de sortie 292 mm (cache supérieur avant hauteur 100 mm)	141
9.4 Aération forcée pour zone des départs et disjoncteurs de puissance – filtre de sortie 177 mm (cache supérieur avant 300 mm)	142
9.5 Aération forcée pour zone des départs – ventilateur 177 mm (cache inférieur avant hauteur 300 mm)	143
9.6 Aération forcée pour zone des départs – filtre de sortie 177 mm (cache supérieur avant hauteur 300 mm)	144
10. Montage des composants de câblage	145
10.1 Vue d'ensemble des caches de câblage et goulottes de câbles	145
10.2 Préparation et montage des cloisons fonctionnelles	146
10.3 Montage du cache de câblage	149
10.4 Montage du montant	152
10.5 Montage d'une goulotte de câbles – exemple d'application	153
10.6 Informations complémentaires pour le montage	155
11. Propriété de protection arc électrique de catégorie A	157
11.1 Toit – bouchons de décompression	157
11.2 Remplacement des supports de pièces plates au niveau du panneau arrière	159
11.3 Montage des panneaux latéraux VX	163
11.4 Renfort de la tringlerie des portes doubles	166
12. Propriété de protection arc électrique de catégorie B	169
12.1 Zone arrière au milieu 185 mm avec juxtaposition du jeu de barres	169
12.2 Zone toit tétrapolaire avec juxtaposition du jeu de barres – armoire de profondeur 600 mm	174
12.3 Particularité zone toit – armoire de profondeur 800 mm	179
12.4 Particularité zone toit – armoire de largeur 400 mm	181



Inhaltsverzeichnis

Contents

Sommaire

DE

A. Anhang	201
A.1 Das ACB-Feld Dachbereich bis 4000 A	201
A.2 Das ACB-Feld Dachbereich bis 6300 A	202
A.3 Das ACB-Feld Rückbereich	203
A.4 Das Abgangsfeld	204
A.5 Die Form 2b	205
A.6 Das Koppelfeld Dachbereich bis 4000 A	206
A.7 Das Koppelfeld Dachbereich bis 6300 A	207
A.8 Das Koppelfeld Rückbereich	208
A.9 Das Generatorfeld	209
A.10 Das Lastschaltleistenfeld	210
A.11 Das Kabelrangierfeld	211
A.12 Das Verteilsammelschienenfeld	212
A.13 Das Hochführungsfeld	213
A.14 Das Eckfeld	214
A.15 Aktives Störlichtbogensystem DEHNshort	215
B. EU-Konformitätserklärung	216
Artikelverzeichnis	223

EN

A.5 The Form 2b	205
A.6 Coupling section, roof section, up to 4000 A	206
A.7 Coupling section, roof section, up to 6300 A	207
A.8 The rear area coupling section	208
A.9 The generator section	209
A.10 The fuse-switch disconnecter section	210
A.11 The cable chamber	211
A.12 The distribution busbar section	212
A.13 The riser section	213
A.14 The corner section	214
A15 Active arc fault protection system DEHNshort	215
B. EC Declaration of Conformity	216
List of model numbers	223

FR

12.5 Particularités zone toit – jeu de barres tripolaire et tétrapolaire 6300 A	182
12.6 Particularités zone toit - jeux de barres tripolaires	183
13. Propriété de protection arc électrique de catégorie C	184
13.1 Système de protection actif DEHNshort contre les arcs électriques	184
14. Raccordement plat pour disjoncteurs de puissance ACB	185
14.1 Montage du disjoncteur de puissance – kit de jonction inférieur	185
14.2 Montage du disjoncteur de puissance – kit de jonction supérieur	190
14.3 Serrage des vis	192
14.4 Montage du séparateur de compartiment fonctionnel	193
14.5 Montage des cosses de câbles	195
14.6 Disjoncteurs de puissance ACB monté de manière asymétrique	196
15. Outils	197
16. Pièces de rechange	200
17. Garantie	200
18. Coordonnées des services après-vente	200
A. Annexes	201
A.1 La zone des disjoncteurs de puissance avec jeux de barres jusqu'à 4000 A sous le toit	201
A.2 La zone des disjoncteurs de puissance avec jeux de barres jusqu'à 6300 A sous le toit	202
A.3 La zone des disjoncteurs de puissance – jeu de barres dans la partie l'arrière	203
A.4 La zone des départs	204
A.5 La forme 2b	205
A.6 La zone de raccordement avec jeu de barres jusqu'à 4000 A sous le toit	206
A.7 La zone de raccordement avec jeu de barres jusqu'à 6300 A sous le toit	207
A.8 La zone de raccordement avec jeu de barres dans la partie arrière	208
A.9 La zone du générateur	209
A.10 La zone de coupe-circuits	210
A.11 La zone de rangement de câbles	211
A.12 La zone de jeux de barres de distribution	212
A.13 La zone de cheminement vertical	213
A.14 La zone d'angle	214
A15 Système de protection actif DEHNshort contre les arcs électriques	215
B. Déclaration de conformité CE	216
Liste des références	223



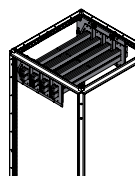
Inhaltsverzeichnis

Contents

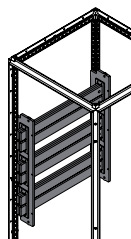
Sommaire



2-39
197-227



40



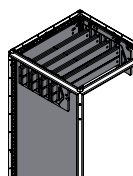
41



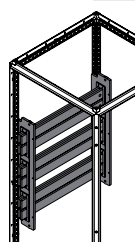
42-43



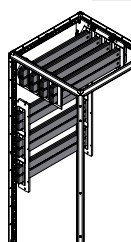
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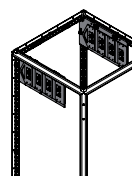
45-46



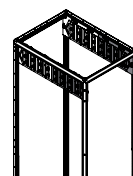
47



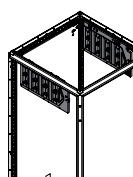
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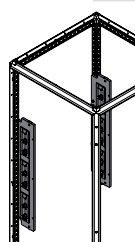
52
54-55



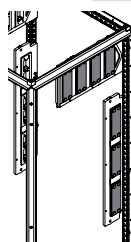
53
56-57



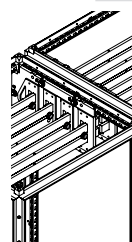
58



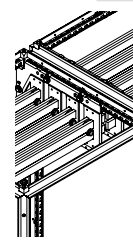
59



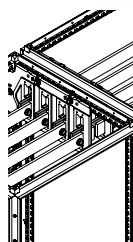
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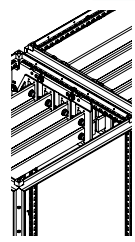
61-62



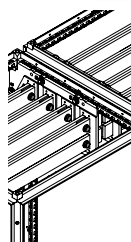
63-64



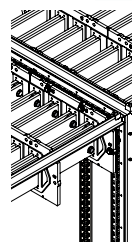
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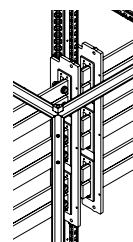
67-68



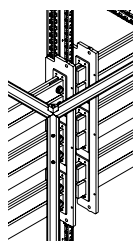
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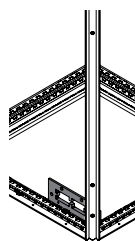
71-72



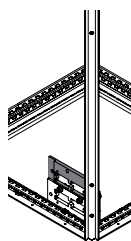
73-74



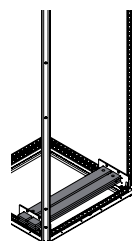
75-76



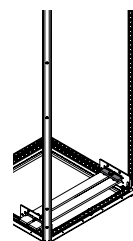
77



78-79



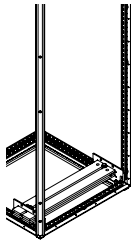
80



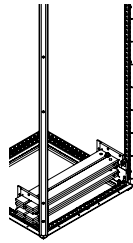
81



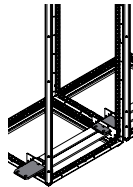
Inhaltsverzeichnis Contents Sommaire



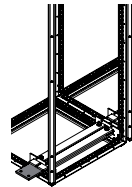
82



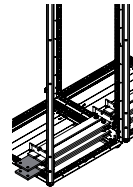
83



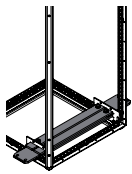
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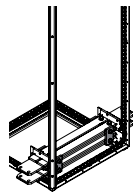
86–87



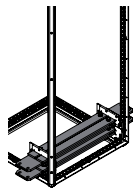
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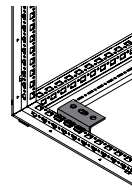
90



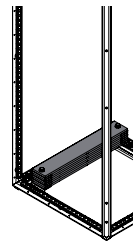
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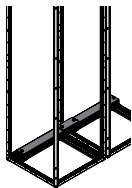
92



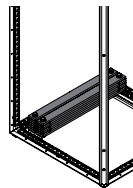
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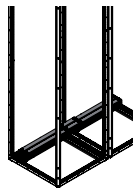
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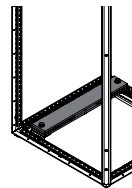
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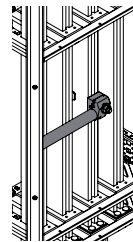
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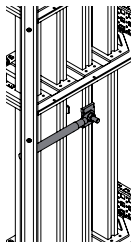
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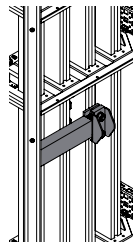
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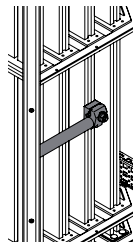
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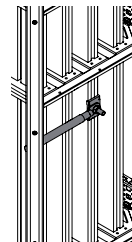
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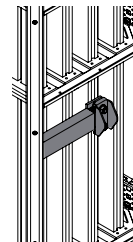
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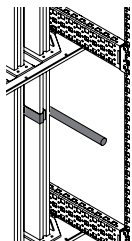
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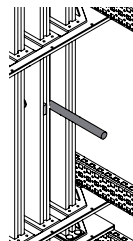
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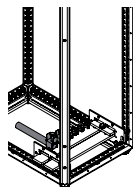
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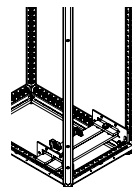
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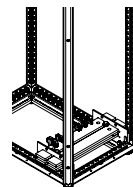
107



108–109



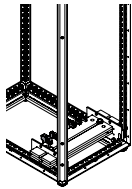
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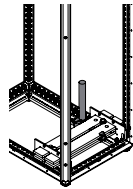
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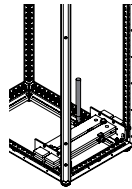
Inhaltsverzeichnis Contents Sommaire



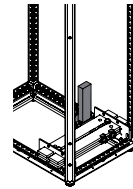
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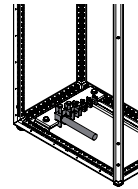
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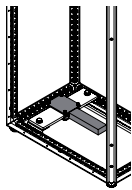
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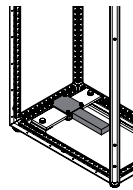
115



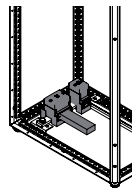
116-117



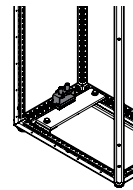
119



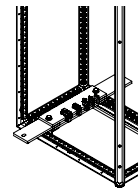
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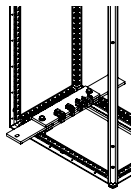
120-121



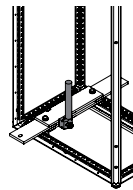
122



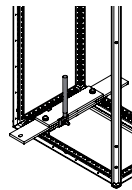
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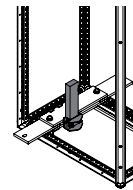
124



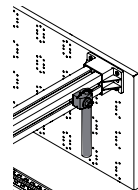
125



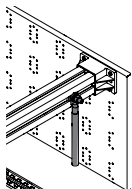
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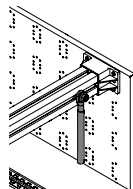
127



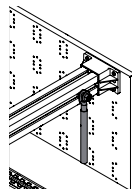
128



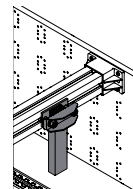
129



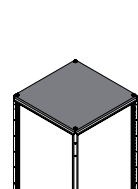
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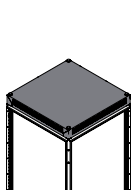
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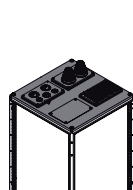
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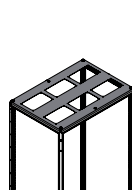
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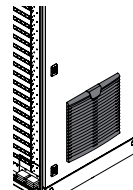
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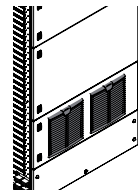
136-137



138



139



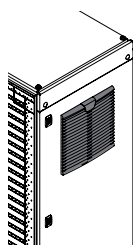
140



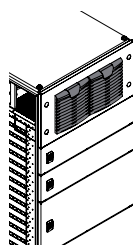
Inhaltsverzeichnis

Contents

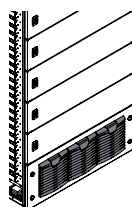
Sommaire



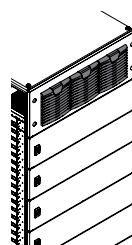
141



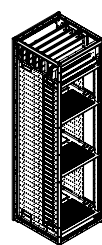
142



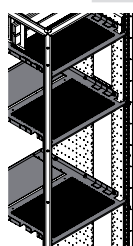
143



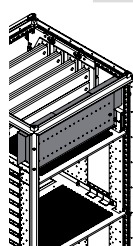
144



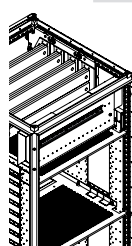
145



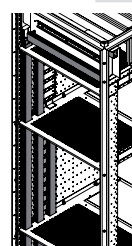
146-148



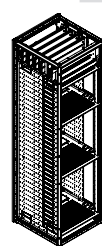
149-151



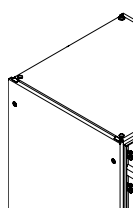
152



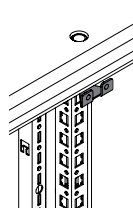
153-154



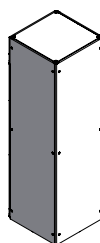
155-156



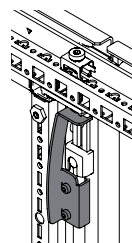
157-158



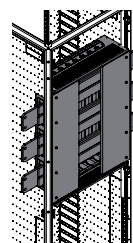
159-162



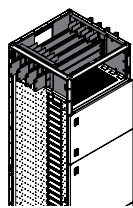
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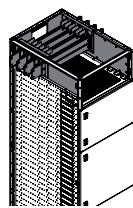
166-168



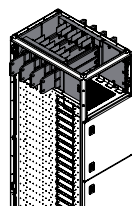
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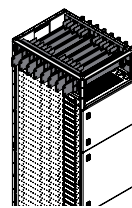
174-178



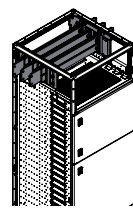
179-180



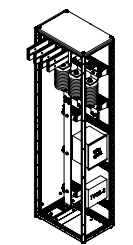
181



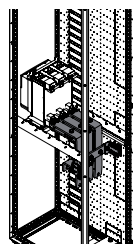
182



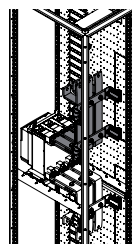
183



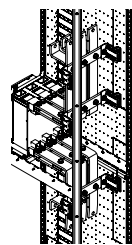
184



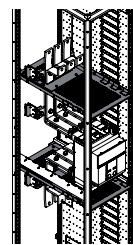
185-189



190-191



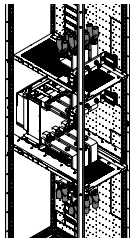
192



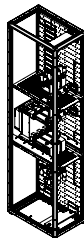
193-194



Inhaltsverzeichnis Contents Sommaire



195



196



Abkürzungsverzeichnis Table of abbreviations Répertoire des abréviations

DE

- HSS: Hauptsammelschienensystem
- N: Neutraleiter
- PE: Schutzleiter
- PEN: PEN-Leiter
- M_A : Anzugsdrehmoment
- ACB: Offener Leistungsschalter
- SW: Schlüsselweite
- IS: Innensechskant
- TX: Innensechsrund
- PH: Phillips-Kreuzschlitz

EN

- MBS: Main busbar system
- N: Neutral conductor
- PE: Protective earth conductor
- PEN: Combined protective earth and neutral conductor
- M_A : Tightening torque
- ACB: Air circuit-breaker
- SW: Width across flats
- IS: Hex socket
- TX: Multi-tooth
- PH: Phillips-head

FR

- JBP : jeux de barres principaux
- N : conducteur Neutre
- PE : conducteur Terre
- PEN : conducteur Terre-Neutre
- M_A : couple de serrage
- ACB : disjoncteur de puissance ouvert
- SW : largeur de clé
- IS : six pans creux
- TX : Torx
- PH : cruciforme Phillips



1. Hinweise zur Dokumentation

1. Notes on documentation

1. Remarques relatives à la documentation

DE

Die **Montageanleitung** richtet sich an alle Personen, die über eine entsprechende Fachausbildung verfügen, um Schaltschränke normgerecht mit elektrischen, elektronischen, mechanischen oder pneumatischen Betriebsmitteln auszurüsten, am Bestimmungsort aufzustellen bzw. zu montieren und betriebsfertig anzuschließen.

1.1 Aufbewahrung der Unterlagen

Die Dokumentation ist Teil des Produktes. Sie muss dem Anlagenbetreiber ausgehändigt werden. Dieser übernimmt die Aufbewahrung, damit die Unterlagen im Bedarfsfall zur Verfügung stehen.

1.2 Verwendete Symbole

Beachten Sie folgende Sicherheits- und sonstige Hinweise in der Anleitung:

Sicherheits- und andere Hinweise:



Gefahr!
Unmittelbare Gefahr für Leib und Leben.



Achtung!
Mögliche Gefahr für Produkt und Umwelt.



Hinweis:
Nützliche Informationen und Besonderheiten.



Hinweis:
Front-/Rückansicht.



Hinweis:
Seitenansicht links/rechts.

EN

The **assembly instructions** are aimed at all persons who have an appropriate specialist training to allow them to equip enclosures to conform to standards with electrical, electronic, mechanical or pneumatic operating equipment, to place or install at the destination site and to connect ready to operate.

1.1 Storing the documents

The documentation is part of the product. It must be given to the plant operator, who is then responsible for the storage of the documents so that they are readily available when needed.

1.2 Symbols used

Please observe the following safety instructions and other notes in this guide:

Safety and other notes:



Danger!
Immediate danger to life and limb.



Caution!
Potential threat to the product and its environment.



Note:
Useful information and special features.



Note:
Front/rear view.



Note:
Side view left/right.

FR

La **notice de montage** s'adresse à toutes les personnes qui possèdent les compétences professionnelles correspondantes, pour équiper les armoires électriques avec du matériel électrique, électronique, mécanique ou pneumatique dans le respect des normes, pour les installer ou les implanter sur le lieu d'exploitation.

1.1 Conservation des documents

La documentation fait partie du produit. Elle doit être remise à l'exploitant de l'installation. Celui-ci les conservera de manière à ce qu'elles soient disponibles en cas de besoin.

1.2 Symboles utilisés

Tenir compte des consignes de sécurité et autres directives contenues dans cette notice :

Consignes de sécurité et autres directives :



Danger !
Risque de blessure grave, voire mortelle.



Attention !
Danger éventuel pour le produit et l'environnement.



Remarque :
Informations utiles et particularités.



Remarque :
F = vue frontale
R = vue arrière

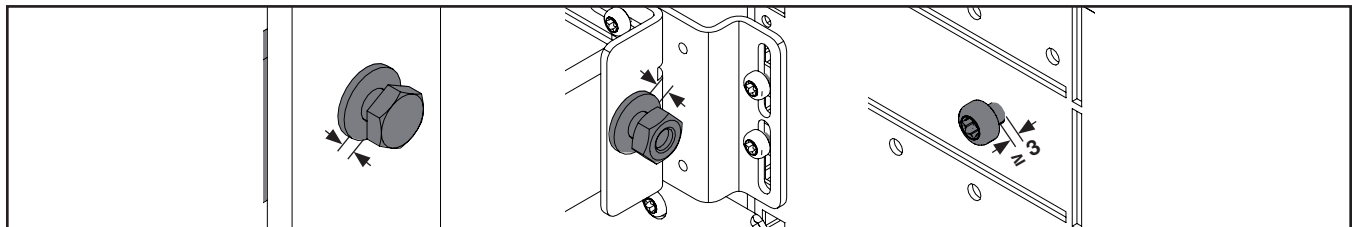


Remarque :
L = vue latérale gauche
R = vue latérale droite

Lose Schraubverbindungen

Loose screw connections

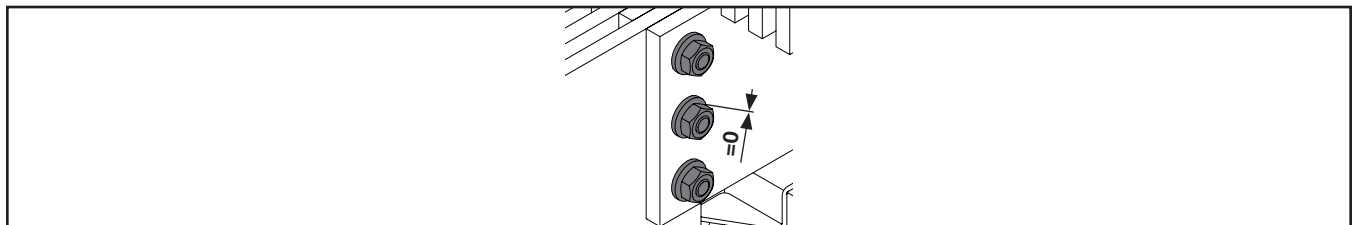
Connexions à vis desserrées



Vorgespannte Schraubverbindungen

Pre-tensioned screw connections

Connexions à vis pré-tendues





1. Hinweise zur Dokumentation

1. Notes on documentation

1. Remarques relatives à la documentation

DE

1.3 Mitgeltende Unterlagen

Für die hier beschriebenen Sammelschienenkomponenten steht diese Montage- und Bedienungsanleitung als Download unter www.rittal.de zur Verfügung. Für Schäden, die durch Nichtbeachtung dieser Anleitung entstehen, übernehmen wir keine Haftung. Zusätzlich gelten auch die Anleitungen des verwendeten Zubehörs.

1.4 Technische Daten

1.4.1 Umgebungstemperatur für Innenraumaufstellung

Die Umgebungstemperatur darf nicht höher als +40 °C sein und ihr Mittelwert darf über eine Dauer von 24 h nicht höher als +35 °C sein. Die untere Grenze der Umgebungstemperatur ist -5 °C.

1.4.2 Bedingungen hinsichtlich Luftfeuchte für Innenraumaufstellung

Die relative Luftfeuchte der Umgebungsluft darf 50 % bei einer höchsten Temperatur von +40 °C nicht überschreiten. Bei niedrigeren Temperaturen dürfen höhere Luftfeuchtwerte zugelassen werden, z. B. 90 % bei +20 °C. Gelegentlich auftretende mäßige Kondenswasserbildung infolge von Temperaturschwankungen sollte berücksichtigt werden.

1.4.3 Verschmutzungsgrad

Der Verschmutzungsgrad bezieht sich auf die Umgebungsbedingungen, für die die Schaltgerätekombination vorgesehen ist. Für Schaltgeräte und Bauteile in einem Gehäuse gilt der Verschmutzungsgrad der Umgebungsbedingungen im Gehäuse.

1.4.4 Höhenlage

Die Höhenlage des Aufstellungsorts liegt nicht über 2000 m über N.N.

1.5 Bemaßungen

Sämtliche Bemaßungen in dieser Anleitung beziehen sich auf die Gerüstinnenseite, sofern keine weiteren Angaben gemacht sind.

EN

1.3 Other applicable documents

These assembly instructions and operating instructions for the described busbar components can be downloaded from www.rittal.com. We cannot accept any liability for damage associated with failure to observe these instructions. The instructions for any accessories used also apply.

1.4 Technical specifications

1.4.1 Ambient temperature for indoor installation

The ambient temperature must not exceed +40 °C and its average value over 24 hours must not exceed +35 °C. The lower limit of the ambient temperature is -5 °C.

1.4.2 Humidity conditions for indoor installation

The relative humidity of the ambient air must not exceed 50% for a highest temperature of +40 °C. Higher humidity values may be permitted for lower temperatures, e.g. 90% at +20 °C. The occasional occurrence of limited condensation resulting from temperature fluctuations should be taken into consideration.

1.4.3 Level of contamination

The level of contamination applies to the ambient conditions specified for the switching devices combination. For switching devices and components in a housing, the level of contamination for the ambient conditions in the housing apply.

1.4.4 Altitude

The site altitude does not exceed 2000 m above sea level.

1.5 Dimensioning

All dimensioning in these instructions apply to the inside frame, unless further details have been shown.

FR

1.3 Autres documents applicables

La présente notice de montage et d'emploi pour les composants du jeu de barres mentionnés ici peut être téléchargée sur le site internet www.rittal.fr. Nous déclinons toute responsabilité en cas de dommages imputables à la non-observation des instructions contenues dans ces documents. Veuillez également tenir compte des instructions relatives aux accessoires utilisés.

1.4 Caractéristiques techniques

1.4.1 Température ambiante pour installation en intérieur

La température ambiante ne doit pas être supérieure à +40 °C et sa moyenne sur une durée de 24 h ne doit pas être supérieure à +35 °C. La limite inférieure pour la température ambiante est de -5 °C.

1.4.2 Conditions en matière d'hygrométrie pour installation dans des locaux

L'humidité relative de l'air ambiant ne doit pas dépasser 50 % pour une température maximale de +40 °C. Des taux d'humidité de l'air supérieurs sont autorisés à des températures plus faibles, p. ex. 90 % à +20 °C. Il faut tenir compte d'une éventuelle formation d'eau de condensation suite aux variations de température.

1.4.3 Taux d'encrassement

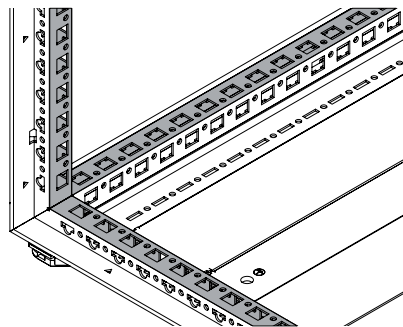
Le taux d'encrassement dépend des conditions ambiantes pour lesquelles le TGBT est conçu. Le taux d'encrassement des conditions ambiantes dans l'armoire vaut pour les disjoncteurs et les équipements installés dans celle-ci.

1.4.4 Altitude

L'altitude du lieu d'installation ne doit pas dépasser 2000 m au-dessus du niveau de la mer.

1.5 Dimensions

Toutes les dimensions dans cette notice se rapportent au côté intérieur de l'ossature, sauf avis contraire.





1. Hinweise zur Dokumentation

1. Notes on documentation

1. Remarques relatives à la documentation

DE

1.6 Abmessungen der Schränke

Die Angaben „B“ (Breite), „H“ (Höhe) und „T“ (Tiefe) der Schränke beziehen sich jeweils auf die nominalen Abmessungen.

EN

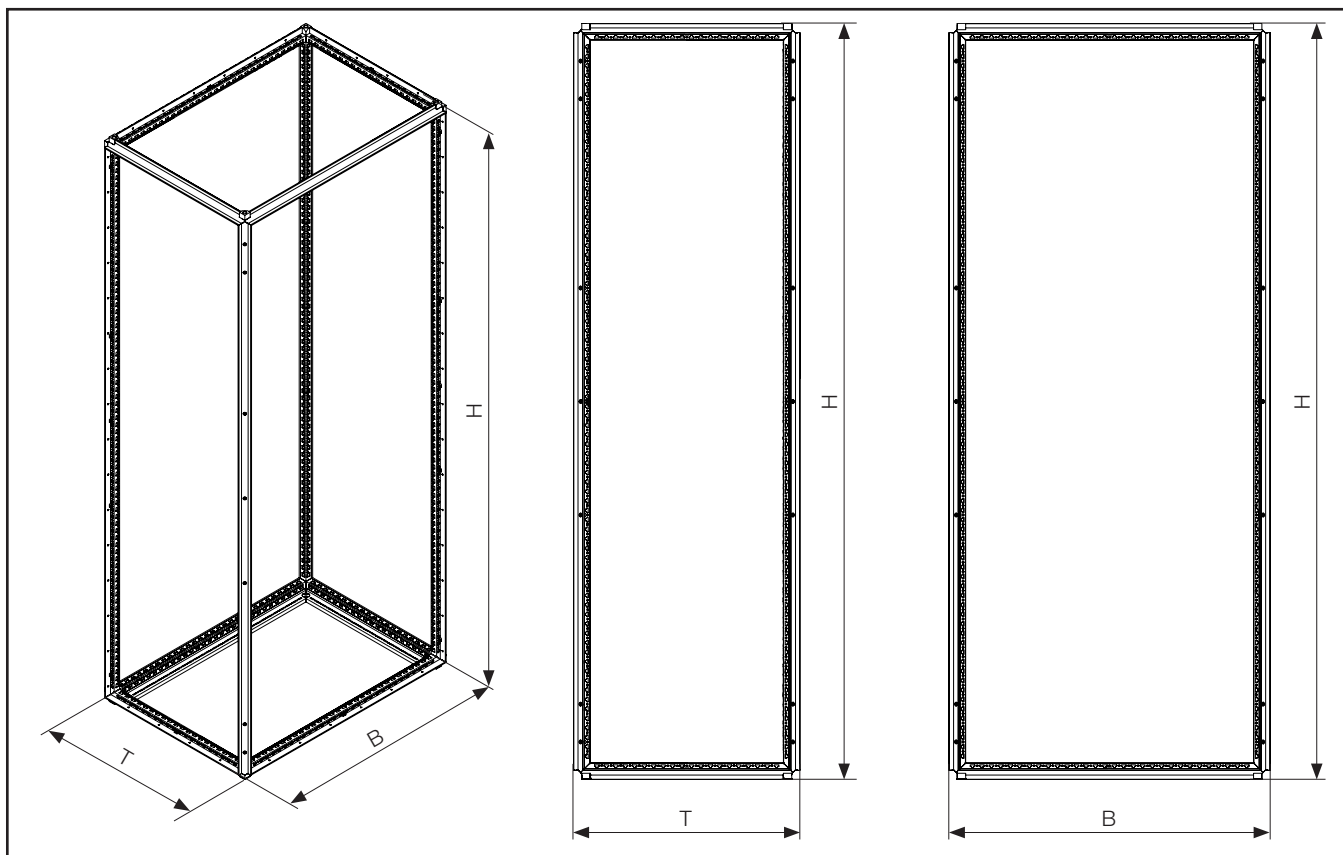
1.6 Enclosure dimensions

The information "B" (width), "H" (height) and "T" (depth) each refer to the nominal dimensions.

FR

1.6 Dimensions des armoires

Les informations « B » (largeur), « H » (hauteur) et « T » (profondeur) se réfèrent chacune aux dimensions nominales.

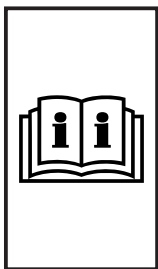


Beispiele „nominale Abmessungen“

Examples „nominal dimensions“

Exemples „dimensions nominales“

Breite B mm Width B mm Largeur B mm	Tiefe T mm Depth T mm Profondeur T mm	Höhe H mm Height H mm Hauteur H mm	Best.-Nr. Model No. Référence
600	600	2000	9680.606
600	800	2000	9680.608
...	...	...	...

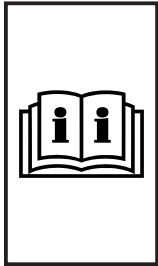


2. Sicherheitshinweise
2. Safety instructions
2. Consignes de sécurité

2. Veiligheidsvoorschriften
2. Säkerhetsinstruktioner
2. Avvertenze di sicurezza

2. Advertencias de seguridad

	DE	EN	FR	NL	SE	IT	ES
	Warnung vor der Schließbewegung von mechanischen Teilen einer Maschine/Einrichtung	Warning against closing movements for mechanical parts of a machine/device	Danger dû à la fermeture des pièces mécaniques d'une machine / installation	Waarschuwing voor de sluitbeweging van mechanische onderdelen van een machine/voorziening	Varning för stängningsrörelse på mekaniska delar i en maskin/enhet	Prestare attenzione alla chiusura delle parti meccaniche di una macchina o di un dispositivo	Atención, movimiento de cierre de componentes mecánicos en una máquina/instalación
	Warnung vor sich bewegenden mechanischen Teilen	Warning against independently moving parts	Danger dû à des pièces mécaniques mobiles	Waarschuwing voor bewegende mechanische onderdelen	Varning för rörliga mekaniska delar	Prestare attenzione alle parti meccaniche in movimento	Atención, componentes mecánicos en movimiento
	Warnung vor Umkippen durch Schwerpunktverlagerung	Risk of tipping due to displacement of centre of gravity	Attention au basculement lors du déplacement du centre de gravité	Waarschuwing voor kantelen als gevolg van zwaartepunt-verschuiving	Varning för väl-tande föremål på grund av förskjuten tyngdpunkt	Pericolo di cadute tramite lo spostamento del baricentro	Advertencia de vuelco si se desplaza el centro de gravedad
	Warnung vor spitzem Gegenstand	Caution: Sharp object	Attention aux objets pointus	Waarschuwing voor scherpe voorwerpen	Varning för vassa föremål	Pericolo oggetto affilato	Advertencia de objetos puntiagudos
	Warnung vor Hindernissen am Boden	Caution: Obstructions on floor	Attention aux obstacles au sol	Waarschuwing voor obstakels op de grond	Varning för hinder på marken	Pericolo ostacolo in basso	Advertencia de obstáculos en el suelo
	Warnung vor schweren Lasten	Caution: Heavy loads	Attention aux charges lourdes	Waarschuwing voor zware belastingen	Varning för tung last	Pericolo carichi pesanti	Advertencia de cargas pesadas
	Warnung vor Hindernissen im Kopfbereich	Caution: Obstructions in head area	Attention aux obstacles au niveau de la tête	Waarschuwing voor obstakels op hoofdhoogte	Varning för hinder i huvudhöjd	Pericolo ostacolo in alto	Advertencia de obstáculos en la zona de la cabeza
	Die Anleitung ist zu lesen	The instructions must be read	La notice doit être lue	Lees de gebruiksaanwijzing	Bruksanvisningen måste läsas	Leggere le istruzioni	Leer el manual de instrucciones

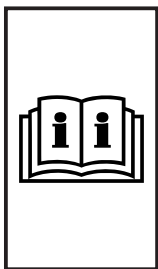


2. Turvallisuusohjeet
2. Sikkerhedsanvisninger
2. Faisnéis sábháilteachta

2. Wskazówki dotyczące bezpieczeństwa
2. Bezpečnostní pokyny
2. Инструкции за безопасност

2. Меры безопасности

	FI	DK	IE	PL	CZ	BG	RU
	Varoitus koneen/ laitteen mekaa- nisten osien sulkuliikkeestä	Advarsel mod lukkebevægelse af mekaniske dele i en maskine/ind- retning	Rabhadh: Gluaiseacht dúnta comhpháirteanna meicniúla meaisín/gléis	Uwaga na zamy- kające się części mechaniczne maszyny lub urządzenia	Výstraha před rizikem úrazu ruky	Предупреждение за движение от затваращи се механични части на машина/обо- рудване	Предупреждение об опасности при закрывании механических частей машины/ установки
	Varoitus liikkuvista mekaanisista osista	Advarsel mod uafhængigt bevægelige dele	Rabhadh: Comhpháirteanna gluaisteachta	Uwaga na ruchome części mechaniczne	Výstraha; Rozmačkání	Предупреждение за движущи се механични части	Предупреждение об опасности движущихся механических частей
	Varo painopisteen siirtymisestä johtuva kaatumisvaara	Risiko for væltning på grund af forskydning af tyngdepunktet	Riosca titime má dhéantar an meáchanlár a dhíláithriú	Ostrzeżenie przed przewróceniem się z powodu przesunięcia środka ciężkości	Varování před převrácením způsobeným posunutím těžiště	Предупреждение за опасност от преобръ- щане поради изместване на центъра на тежестта	Предупреждение об опрокидыва- нии ввиду сме- щения центра тяжести
	Varo teräviä esineitä	Advarsel: Spidse genstande	Aire: Rud géar	Ostrzeżenie przed ostrym przed- miotem	Varování před ostrým předmětem	Предупреждение за опасност от остър предмет	Предупрежде- ние об остром предмете
	Varo kompastu- misvaara	Advarsel: Forhindringer på gulvet	Aire: Baic ar an urlár	Ostrzeżenie przed przeszkodami na podłożu	Varování před překážkami na zemi	Предупреждение за опасност от препятствия по земята	Предупреждение о препятствиях на полу
	Varo raskasta kuormaa	Advarsel: Tunge belastninger	Aire: Ualaí troma	Ostrzeżenie przed dużymi ciężarami	Varování před těžkými břemeny	Предупреждение за опасност от тежки товари	Предупрежде- ние о тяжелых нагрузках
	Varo putoavia esineitä	Advarsel: Forhindringer i hovedhøjde	Aire: Baic i limistéar an chinn	Ostrzeżenie przed przeszkodami w pobliżu głowy	Varování před překážkami v oblasti hlavy	Предупреждение за опасност от препятствия в областта около главата	Предупреждение о препятствиях в верхней области
	Lue käyttöohjeet	Vejlledningen skal læses	Ní mór an treoirleabhar a léamh	Przeczytać instrukcję	Odkaz na instrukce návodu k použití/brožury	Прочетете ръко- водството	Прочитать руко- водство

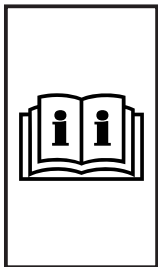


2. Υποδείξεις ασφαλείας
2. Instrucțiuni de siguranță
2. Sigurnosne upute

2. Biztonsági tudnivalók
2. Saugos nurodymai
2. Ohutusteatist

2. Drošības prasības

	GR	RO	HR	HU	LT	EE	LV
	Προειδοποίηση πριν από την κίνηση κλειδώματος μηχανικών μερών μίας εγκατάστασης/μηχανήματος	Avertizare cu privire la mișcarea de închidere a pieselor mecanice ale unei mașini/ale unui dispozitiv	Upozorenje na uklopno kretanje mehaničkih dijelova stroja/uređaja	Gép/berendezés mechanikai részének zárómozgására történő figyelmeztetés	Įspėjimas dėl mašinos / įrenginio mechaninių dalių judėjimo, užsidarymo metu	Hoiatus masina/seadme mehhaaniliste osade sulgemisliikumise eest	Uzmanieties iekārtas/mašīnas mehānisko daļu aizvēršanās laikā
	Προειδοποίηση από κινούμενα μηχανικά μέρη	Avertisment cu privire la piesele mecanice aflate în mișcare	Upozorenje na mehaničke dijelove koji su u pokretu	Mozgó mechanikai részekre történő figyelmeztetés	Įspėjimas dėl judančių mechaninių dalių	Hoiatus liikuvate mehhaaniliste osade eest	Uzmanieties no kustīgām mehāniskām daļām
	Προειδοποίηση ανατροπής λόγω μετατόπισης του κέντρου βάρους	Avertizare de răsturnare prin deplasarea centrului de greutate	Upozorenje na prevrtanje zbog pomicanja težišta	Figyelmeztetés a feldőlés veszélyére a súlypont eltolódása miatt	Įspėjimas apie galimą apvirtimą dėl svorio centro perkėlimo	Hoiatus ümberkukkumise eest raskuskeskme nihkumise tõttu	Brīdinājums par apgāšanos smaguma centra novirzīšanās dēļ
	Προειδοποίηση αιχμηρού αντικειμένου	Avertizare privind obiecte ascuțite	Upozorenje na šiljati predmet	Figyelmeztetés hegyes tárgyak veszélyére	Įspėjimas apie aštrų daiktą	Hoiatus terava eseme eest	Brīdinājums par asiem priekšmetiem
	Προειδοποίηση για εμπόδια στο έδαφος	Avertizare privind obstacole la sol	Upozorenje na zapreke na tlu	Figyelmeztetés a padlón található akadályokra	Įspėjimas apie kliūtis ant žemės	Hoiatus põrandal asuvate takistuste eest	Brīdinājums par šķēršļiem uz grīdas
	Προειδοποίηση για βαριά φορτία	Avertizare privind sarcini grele	Upozorenje na teške terete	Figyelmeztetés nehéz teherre	Įspėjimas apie sunkius krovinis	Hoiatus raskete koormate eest	Brīdinājums par lielu slodzi
	Προειδοποίηση για εμπόδια στην περιοχή της κεφαλής	Avertizare privind obstacole în zona capului	Upozorenje na zapreke u području glave	Figyelmeztetés fejmagasságban található akadályokra	Įspėjimas apie kliūtis galvos aukštyje	Hoiatus pea piirkonnas asuvate takistuste eest	Brīdinājums par šķēršļiem galvas zonā
	Απαιτείται το διάβασμα των οδηγιών	A se citi manualul	Pročitajte upute	Az utasítást el kell olvasni	Skaityti instrukciją	Lugeda kasutusjuhendit	Izlasiet instrukciju



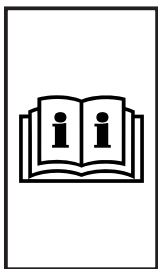
2. Varnostni napotki

2. Bezpečnostné pokyny

2. Instruções de segurança

2. Struzzjonijiet ta' prekawzjoni

	SI	SK	PT	MT
	Opozorilo pred zapiranjem mehanskih delov stroja/naprave	Dávajte pozor na zatvárací pohyb mechanických častí stroja/zariadenia	Cuidado quando as partes mecânicas de uma máquina/instalação se fecham	Twissija dwar l-gheluq ta' partijiet mekkaniċi ta' magna/tagħmir
	Opozorilo pred premikajočimi se mehanskimi deli	Dávajte pozor na pohyblivé mechanické časti	Cuidado com as partes mecânicas móveis	Twissija dwar partijiet mekkaniċi li jiċċaqilqu
	Opozorilo pred prevrtnitvijo zaradi spremenjenega težišča	Varovanie pred prevrátením v dôsledku premiestnenia ťažiska	Cuidado com o risco de queda pelo deslocamento do centro de gravidade	Twissija kontra t-telfien tal-bilanċ minhabba xift tal-gravità
	Opozorilo pred ostrim predmetom	Varovanie pred predmetom s ostrým hrotom	Cuidado com objetos pontiagudos	Twissija kontra oġġett bil-ponta
	Opozorilo pred ovirami na tleh	Varovanie pred prekážkami na podlahe	Cuidado com objetos no chão	Twissija kontra ostakoli mal-art
	Opozorilo pred težkimi bremenii	Varovanie pred ťažkými bremenami	Cuidado com cargas pesadas	Twissija kontra tagħbijiet tqal
	Opozorilo pred ovirami v višini glave	Varovanie pred prekážkami v priestore hlavy	Cuidado com objeto à altura da cabeça	Twissija kontra ostakoli fiż-żona prinċipali
	Preberite navodila	Prečítajte si návod	Ler as instruções	Il-manwal għandu jinqara

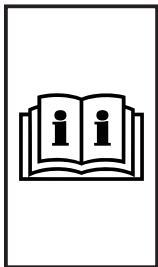


2. Sicherheitshinweise
2. Safety instructions
2. Consignes de sécurité

2. Veiligheidsvoorschriften
2. Säkerhetsinstruktioner
2. Avvertenze di sicurezza

2. Instrucciones de seguridad

	DE	EN	FR	NL	SE	IT	ES
	Augenschutz benutzen	Wear eye protection	Utiliser des protections oculaires	Draag een veiligheidsbril	Använd skyddsglasögon	Utilizzare occhiali protettivi	Utilizar protección ocular
	Handschutz benutzen	Wear protective gloves	Protéger vos mains	Draag veiligheidshandschoenen	Använd skyddshandskar	Utilizzare protezioni per le mani	Utilizar protección para las manos
	Kopfschutz benutzen	Wear head protection	Protéger votre tête	Draag een veiligheidshelm	Använd hjälm	Utilizzare protezione per la testa	Utilizar protección para la cabeza
	Fußschutz benutzen	Wear protective footwear	Protéger vos pieds	Draag veiligheidschoenen	Använd skyddsskor	Utilizzare protezioni per i piedi	Utilizar protección para los pies
	Gehörschutz benutzen	Wear ear protection	Utiliser des protections auditives	Gebruik gehoorbescherming	Använd hörselskydd	Utilizzare paraorecchie	Utilizar protectores auditivos
	Maske benutzen	Wear a mask	Masque obligatoire	Masker gebruiken	Använd andningskydd	Obbligatorio indossare la maschera	Usar mascarilla protectora
	Aufsteigen auf eine Fläche ist verboten	Climbing on surfaces is prohibited	Il est interdit de marcher sur toute surface	Het is verboden het oppervlak te betreden	Förbjudet att stå på maskinens ytor	Divieto di salire sulla superficie	Prohibido subirse en toda la superficie
	Installation durch Elektro-Fachkraft	Installation by specialist electricians	Installation par un électricien confirmé	Installatie door elektrotechnisch personeel	Ska installeras av behörig elektriker	L'installazione deve essere eseguita da un elettricista qualificato	Instalación a realizar por un técnico electricista cualificado
	Installation durch Mechanik-Fachkraft	Installation by specialist mechanics	Installation par un mécanicien confirmé	Installatie door monteur	Ska installeras av behörig montör	L'installazione deve essere eseguita da un meccanico qualificato	Instalación a realizar por un técnico mecánico cualificado

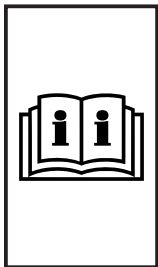


2. Turvallisuusohjeet
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2. Bezpečnostní pokyny
2. Инструкции за безопасност

2. Меры безопасности

	FI	DK	IE	PL	CZ	BG	RU
	Käytä silmäsuojusta	Brug øjenbeskyttelse	Caith súilchosaint	Stosować ochronę oczu	Nosit ochranu očí	Използвайте предпазни очила	Использовать защиту органов зрения
	Käytä käsinsuojusta	Brug sikkerhedshandsker	Caith lámhchosaint	Używać rękawic	Nosit ochranné rukavice	Използвайте предпазни ръкавици	Использовать защитные перчатки
	Käytä pääsuojusta	Brug sikkerhedshjelm	Caith ceannchosaint	Chronić głowę	Nosit ochranu hlavy	Използвайте предпазна каска	Использовать защиту головы
	Käytä jalkasuojusta	Brug sikkerhedssko	Caith coisbheart cosanta	Nosić obuwie ochronne	Nosit ochranu nohou	Използвайте предпазни обувки	Использовать защитную обувь
	Käytä kuulosuojaimia	Brug høreværn	Caith cluaschosaint	Chronić słuch	Nosit ochranu sluchu	Използвайте антифони	Использовать защиту органов слуха
	Käytä hiukkasilta suojaavaa hengityssuojainta	Brug maske	Caith masc	Nakaz stosowania maski przeciwpyłowej	Nosit roušku	Поставете маска	Использовать маску
	Nousu päälle on kielletty	Det er forbudt at klatre på maskinens overflader	Tá cosc ar dhreapadh ar an dromchla	Zakaz wchodzenia na powierzchnię	Nešlapat na povrch	Качването върху повърхностите е забранено	Становиться на поверхность запрещается
	Asennuksen saa suorittaa vain sähköalan ammattilainen	Skal installeres af uddannede elektriker	Ní cheadaítear ach amháin do leictreoir cáilithe é a shuiteáil	Instalacja przez elektryka	Instalace odborně způsobilou osobou	Монтажът се извършва от електротехник	Установка силами специалистов по электрике
	Asennuksen saa suorittaa vain mekaniikka-alan ammattilainen	Skal installeres af uddannede mekaniker	Ní cheadaítear ach amháin do meicneoir cáilithe é a shuiteáil	Instalacja przez mechanika	Instalace odborným mechanikem	Монтажът се извършва от механик	Установка силами специалистов по механике

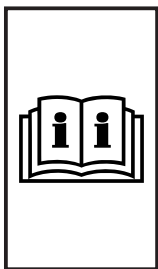


2. Υποδείξεις ασφαλείας
2. Instrucțiuni de siguranță
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2. Biztonsági tudnivalók
2. Saugos nurodymai
2. Ohutusteatist

2. Drošības prasības

	GR	RO	HR	HU	LT	EE	LV
	Χρήση προστασίας οφθαλμών	Utilizați protecție pentru ochi	Obavezna zaštita očiju	Használjon védőszemüveget	Naudokite akių apsaugos priemones	Kandke kaitseprille	Jālieto aizsargbrilles
	Χρήση προστασίας άνω άκρων	Utilizați protecție pentru mâini	Obavezna zaštita ruku	Használjon védőkesztyűt	Naudokite rankų apsaugos priemones	Kandke kaitsekindaid	Jālieto aizsargcimdi
	Χρήση προστασίας κεφαλιού	Utilizați protecție pentru cap	Obavezna zaštita glave	Használjon védősisakot	Naudokite galvos apsaugos priemones	Kandke kaitsekiivrit	Jālieto aizsargķivere
	Χρήση προστασίας κάτω άκρων	Utilizați protecție pentru picioare	Obavezna zaštita stopala	Használjon bizonysági lábbelit	Naudokite kojų apsaugos priemones	Kandke kaitsejalatseid	Jālieto darba apavi
	Χρήση ωτασπίδων	Utilizați protecție pentru auz	Obavezna zaštita sluha	Használjon fülvédőt	Naudokite klausos apsaugos priemones	Kasutage kuulmiskaitset	Jālieto dzirdes aizsardzības līdzekļi
	Φορέστε μάσκα	Purtati masca	Obavezna upotreba respiratora	Porvédő maszk használata kötelező!	Naudoti kaukę	Kanna kaitsemaski	Jālieto sejas maska
	Απαγορεύεται η ανάβαση σε μία επιφάνεια	Urcarea pe o suprafață este interzisă	Zabranjeno je penjanje na površinu	A felületre lépni tilos	Draudžiama lipti ant paviršiaus	Pinna peale astumine on keelatud	Aizliegts kāpt uz virsmas
	Εγκατάσταση από εκπαιδευμένο ηλεκτρολόγο	Instalarea se va face de un electrician calificat	Instalaciju smije provesti samo ovlašteno stručno osoblje za električarske radove	A szerelés elektromos szakembernek kell elvégeznie	Turi įrengti elektrikas	Kvalifitseeritud elektriku poolne paigaldamine	Uzstādīšanu drīkst veikt tikai kvalificēts elektriķis
	Εγκατάσταση από εκπαιδευμένο μηχανικό	Instalarea se va face de un mecanic calificat	Instalaciju smije provesti samo ovlašteno stručno osoblje za mehaničarske radove	A szerelés mechanikus szakembernek kell elvégeznie	Turi įrengti mechanikas	Kvalifitseeritud mehhaaniku poolne paigaldamine	Uzstādīšanu drīkst veikt tikai kvalificēts mehāniķis



2. Varnostni napotki

2. Bezpečnostné pokyny

2. Instruções de segurança

2. Struzzjonijiet ta' prekawzjoni

	SI	SK	PT	MT
	Uporabljajte zaščito za oči	Používajte ochranu očí	Usar proteção ocular	Uża protezzjoni tal-ghajnejn
	Uporabljajte zaščito za roke	Používajte ochranu rúk	Usar proteção das mãos	Uża protezzjoni tal-idejn
	Uporabljajte zaščito za glavo	Používajte ochranu hlavy	Usar proteção da cabeça	Uża protezzjoni tar-ras
	Uporabljajte zaščito za noge	Používajte ochranu chodidiel	Usar proteção dos pés	Uża protezzjoni tas-saqajn
	Uporabljajte zaščito za sluh	Používajte ochranu sluchu	Usar proteção auricular	Uża protezzjoni tas-smigh
	Obvezna uporaba zaščitne maske	Používaj ochrannú masku	Uso obrigatório de máscara	Ilbes maskla
	Vzpenjanje na površino je prepovedano	Je zakázané vystupovať na plošinu	É proibido subir para a superfície	Mhuxwix permiss li wiehed jirfes fuq zona
	Namestitev lahko izvajajo samo usposobljeni strokovnjaki za elektrotehnična dela	Inštaláciu smie vykonávať len špecializovaný elektrotechnik	A instalação deve ser feita por um técnico electricista especializado	Installazzjoni minn elettricista kwalifikat/a
	Namestitev lahko izvajajo samo usposobljeni strokovnjaki za mehanična dela	Inštaláciu smie vykonávať len špecializovaný mechanik	A instalação deve ser feita por um técnico mecânico especializado	Installazzjoni minn mekkaniku kwalifikat/a



2. Sicherheitshinweise 2. Safety instructions



DE

Bestimmungsgemäße Verwendung

Das VX25 Ri4Power System ist als Niederspannungs-Schaltgerätekombinationen mit einer Bemessungsspannung von höchstens 1000 V AC oder 1500 V DC im Innenraum zu verwenden.

Bei der Entwicklung des VX25 Ri4Power Systems wurden bereits im Konstruktionsstadium sicherheitskritische Punkte über eine Risikobewertung nach DIN EN ISO 12100 bewertet und vermieden. Da sich einige wenige Restrisiken nicht ausschließen lassen, sind folgende Hinweise zu beachten.

Bei einem Nichtbeachten der Sicherheitshinweise besteht die Möglichkeit der Gefahr für Gesundheit und Leben.

Allgemeine Sicherheitshinweise:

- Die VX25 Ri4Power Montageanleitungen sind zu beachten
- Das Gehäuse muss während Transport, Auf- und Ausbau sowie Demontage gegen Umkippen und Verrutschen gesichert werden – ACHTUNG: Schwerpunktverlagerung!
- Nicht fixierte Hauptsammelschienen L1, L2, L3 und N sind vor dem Transport aus den Schränken zu entfernen
- Quetsch- und Schnittgefahr beim Ein-/Ausbau der Komponenten
- Gehäusetüren gegen unbeabsichtigtes Aushängen sichern
- Bei Verwendung von Rittal Zubehörkomponenten ist eine Beeinflussung der Gehäuseeigenschaften möglich
- Das Öffnen und Arbeiten an der Anlage ist nur im spannungsfreien Zustand gestattet
- Abhängig von den Einsatz- und Umgebungsbedingungen sind regelmäßige Wartungsarbeiten an der Anlage durchzuführen und entsprechend zu dokumentieren
- Die Montage- und Bedienungsanleitung Anreih-Schranksystem VX25 (Artikelnummer auf www.rittal.com) ist zu beachten

Vor Inbetriebnahme:

- Vorhandene Transportsicherungen entfernen
- Eventuell Druckentlastungsstopfen einsetzen
- Sichtprüfung aller Befestigungsstellen
- Kontrolle aller Anzugsdrehmomente
- Den festen Sitz aller Kabel überprüfen – Zugkraft > 30 N
- Kriech- und Luftstrecken (z. B. bei jeder Einbaulage der Kabelschuhe) nach verwendetem Standard überprüfen
- Werkzeug und Montagerestmaterialien entfernen
- Elektrische Sicherheitsprüfung durchführen

EN

Intended use

The VX25 Ri4Power System can be used at indoor locations as a low-voltage switchgear combination with a maximum rated voltage of 1000 V AC or 1500 V DC.

During the development of the VX25 Ri4Power System, safety-critical points were already assessed and avoided at the design stage by means of a risk assessment according to DIN EN ISO 12100. The following notes must be observed as a few residual risks cannot be ruled out.

There is a risk to life and health if the safety instructions are not observed.

General safety information:

- The VX25 Ri4Power assembly instructions must be observed.
- The enclosure must be secured against falling over and slipping during transport, assembly, configuration and dismantling – CAUTION: Shift of the centre of gravity!
- Non-fixed main busbars L1, L2, L3 and N must be removed from the enclosures before transport.
- Risk of crushing and cutting when installing/dismantling components.
- Secure enclosure doors against accidental unhinging.
- The use of Rittal accessory components may possibly influence the enclosure properties.
- Opening and working on the system is only allowed in a de-energised state.
- Depending on the usage and ambient conditions, regular maintenance work must be performed on the system and documented accordingly.
- The enclosure baying system VX25 assembly and operating instructions (item number at www.rittal.com) must be observed.

Prior to commissioning:

- Remove any existing transport locks.
- If necessary, insert the pressure relief plug.
- Visual inspection of all fixing points.
- Control of all tightening torques.
- Check the tightness of all cables – tensile force >30 N.
- Check the creepage distances and clearances (e.g. in each installation position of the cable lugs) in accordance with the standard applied.
- Remove tools and unused assembly materials.
- Carry out an electrical safety check.



2. Consignes de sécurité 2. Veiligheidsvoorschriften



FR

Utilisation correcte du produit

Le système Ri4Power VX25 est un ensemble d'appareillages à basse tension avec tension nominale maximale de 1000 V CA ou 1500 V CC prévu pour une utilisation en intérieur.

Lors de la conception du système Ri4Power VX25 des aspects déterminants en matière de sécurité ont été évalués et éliminés grâce à une analyse des risques conforme à la norme EN ISO 12100. Étant donné que certains risques résiduels ne peuvent être exclus, les indications suivantes doivent être respectées.

Le non-respect des consignes de sécurité entraîne un danger pour la santé ou la vie.

Consignes générales de sécurité :

- Les instructions de montage du système Ri4Power VX25 doivent être respectées.
- Les chutes ou les glissements de l'enveloppe doivent être prévenus pendant son transport, son installation, son équipement et son démontage – ATTENTION : déplacement du centre de gravité !
- Les jeux de barres L1, L2, L3 et Neutre non fixés doivent être retirés des armoires électriques avant expédition.
- Risque de pincement ou de coupure lors du montage / démontage des composants.
- Prévenir le dégonflage involontaire des portes de l'enveloppe.
- En cas d'utilisation d'accessoires Rittal, il est possible que les propriétés de l'enveloppe soient influencées.
- L'ouverture de l'installation et les travaux sur l'installation ne sont autorisés que si l'installation est hors tension.
- En fonction des conditions environnementales et d'utilisation, des travaux réguliers d'entretien sur l'installation doivent être effectués et documentés en conséquence.
- Respecter les instructions mentionnées dans la notice de montage et d'emploi « Armoires électriques juxtaposables VX25 » (références sur www.rittal.com).

Avant toute mise en service :

- Retirer tous les dispositifs de sécurité de transport existants.
- Poser éventuellement des bouchons de décompression.
- Contrôler visuellement tous les points de fixation.
- Contrôler tous les couples de serrage.
- Contrôler que tous les câbles soient solidement installés - force de traction > 30 N.
- Contrôler la ligne de fuite et la distance d'isolement (par exemple pour toutes les positions de montage des cosses de câble) conformément à la norme utilisée.
- Retirer les outils et les matériaux de montage.
- Effectuer un test de sécurité électrique.

NL

Voorgesproken gebruik

Het VX25 Ri4Power-systeem is als laagspannings-schakelkastcombinatie met een maximale nominale spanning van 1000 V AC of 1500 V DC te gebruiken voor indoor-toepassingen.

Bij de ontwikkeling van het VX25 Ri4Power-systeem werd al tijdens de constructiefase een risico-analyse uitgevoerd, waarbij veiligheidskritische punten volgens DIN EN ISO 12100 in kaart werden gebracht en vermeden. Omdat niet alle risico's volledig zijn uit te sluiten, moeten de volgende aanwijzingen in acht worden genomen.

Worden de veiligheidsinstructies niet in acht genomen, dan bestaan er mogelijke gevaren voor de gezondheid en kunnen er levensbedreigende risico's ontstaan.

Algemene veiligheidsinstructies:

- De informatie in de VX25 Ri4Power-montagehandleidingen moet in acht worden genomen.
- De behuizing moet tijdens transport, montage, installatie en demontage tegen omvallen worden beveiligd.
LET OP: zwaartepuntverschuiving!
- Niet gefixeerde hoofdstroomrails L1, L2, L3 en N dienen voor het transport te worden verwijderd.
- Gevaar voor bekknelling en snijwonden bij de in-/opbouw van componenten.
- Beveilig de behuizingsdeuren tegen onbedoeld uitnemen.
- Bij de toepassing van Rittal toebehorencomponenten is er mogelijk beïnvloeding van de behuizingseigenschappen.
- Het openen van de installatie en het uitvoeren van werkzaamheden daaraan mag alleen in spanningsvrije toestand plaatsvinden.
- Afhankelijk van de toepassings- en omgevingsomstandigheden moeten periodiek onderhoudswerkzaamheden aan de installatie worden uitgevoerd. Deze werkzaamheden moeten worden gedocumenteerd.
- De informatie in de handleiding van de VX25 systeemkast (artikelnummer op www.rittal.com) moet in acht worden genomen.

Vóór de inbedrijfstelling:

- Verwijder de aanwezige transportbeveiligingen.
- Breng eventueel een drukontlastingsventiel aan.
- Voer bij alle bevestigingsplaatsen een visuele controle uit.
- Controleer alle aanhaalmomenten.
- Controleer of alle kabels goed zijn aangesloten - trekkracht > 30 N.
- Controleer lucht- en kruipwegen (bijv. bij elke inbouwpositie van kabelschoenen) conform de gebruikte standaard.
- Verwijder gereedschap en montage materiaal.
- Voer een elektrische veiligheidscontrole uit.



2. Säkerhetsinstruktioner 2. Avvertenze di sicurezza



SE

Ändamålsenlig användning

VX25 Ri4Power System är avsett att användas inomhus med en märkspänning på högst 1000 V AC eller 1500 V DC.

Vid utvecklingen av VX25 Ri4Power System har hänsyn tagits till säkerhetskritiska punkter redan på konstruktionsstadiet genom en riskbedömning i enlighet med DIN EN ISO 12100, för att undvika risker. Eftersom några få kvarvarande risker inte går att förebygga, ska följande observeras.

Om säkerhetsanvisningarna inte efterlevs kan livsfara eller fara för människors hälsa uppstå.

Allmänna säkerhetsanvisningar:

- Montageanvisningarna för VX25 Ri4Power måste följas.
- Skåpet måste säkras mot att välta och glida under transport, montage, installation och demontage – OBS: Förskjuten tyngdpunkt!
- Ofixerade huvudsamlingsskenor L1, L2, L3 och N är skall tas bort från skåpen före transport.
- Risk för kläm- och skårskador vid montage/demontage av komponenterna.
- Säkra lådans luckor så att de inte kan hakas ur av misstag.
- Om Rittals tillbehörskomponenter används kan skåpets egenskaper påverkas.
- Att öppna och arbeta på anläggningen är endast tillåtet i spänningsfritt tillstånd.
- Beroende på användnings- och omgivningsförhållanden måste regelbundna underhållsarbeten utföras på anläggningen och dokumenteras korrekt.
- Skåpets bruksanvisning "Golvskåp för ihopbyggnad VX25" (artikelnummer på www.rittal.com) måste följas.

Före driftstart:

- Avlägsna transportsäkringarna om sådana finns.
- Använd tryckavlastningspluggar vid behov.
- Gör en visuell kontroll av alla fästpunkter.
- Kontrollera alla åtdragningsmoment.
- Se till att alla kablar sitter fast ordentligt – dragkraft > 30 N.
- Kontrollera kryp- och luftsträckor (t.ex. för kabelskornas respektive montageålag) i enlighet med tillämpad standard.
- Avlägsna verktyg och montagematerial.
- Gör en elektrisk säkerhetskontroll.

IT

Impiego conforme alle norme

Il sistema VX25 Ri4Power deve essere utilizzato in un ambiente interno come combinazione di dispositivi di commutazione a bassa tensione con una tensione nominale di massimo 1.000 V CA o 1.500 V CC.

Durante lo sviluppo del sistema VX25 Ri4Power, una valutazione del rischio sulla base della norma DIN EN ISO 12100 ha consentito di valutare ed evitare punti critici per la sicurezza già in fase di costruzione. Dal momento che permangono alcuni rischi residui, occorre osservare le seguenti indicazioni.

La mancata osservanza delle avvertenze in materia di sicurezza può comportare un rischio per la salute e la vita.

Avvertenze generali in materia di sicurezza:

- Osservare le istruzioni per il montaggio di VX25 Ri4Power.
- L'armadio deve essere protetto contro la caduta e lo scivolamento durante il trasporto, il montaggio, la configurazione e lo smantellamento.

ATTENZIONE: spostamento del baricentro.

- Le busbar principali non fissate L1, L2, L3 e N devono essere rimosse dagli armadi prima del trasporto.
- Rischio di schiacciamento e contusioni durante il montaggio/lo smontaggio dei componenti.
- Bloccare le porte dell'alloggiamento per evitarne un distacco accidentale.
- L'uso di componenti accessori Rittal può influire sulle caratteristiche dell'alloggiamento.
- L'apertura e i lavori all'impianto sono consentiti solo in assenza di tensione.
- A seconda delle condizioni ambientali e di impiego, è necessario eseguire regolari interventi di manutenzione all'impianto, da documentare in maniera adeguata.
- Osservare le istruzioni relative agli armadi componibili VX25 (numero dell'articolo su www.rittal.com).

Prima della messa in funzione:

- Rimuovere i blocchi di sicurezza per il trasporto presenti.
- Inserire eventualmente tappi di depressurizzazione.
- Controllare visivamente tutti i punti di fissaggio.
- Verificare tutte le coppie di avviamento.
- Verificare che tutti i cavi siano saldamente fissati. Forza di trazione > 30 N.
- Verificare le vie di dispersione e i traferri (ad es. per ogni posizione di montaggio dei capicorda) in base allo standard utilizzato.
- Rimuovere l'attrezzatura e i materiali di montaggio.
- Eseguire un collaudo elettrico di sicurezza.



2. Instrucciones de seguridad

2. Turvallisuusohjeet



ES

Uso del producto según las normas

El sistema Ri4Power VX25 debe utilizarse como conjunto de aparamenta de baja tensión con una tensión de máximo 1000 V c.a. o 1500 V c.c. para interiores.

Durante el desarrollo del sistema Ri4Power VX25, en la fase de diseño, ya se evaluaron y redujeron riesgos para la seguridad mediante una evaluación de riesgos según DIN EN ISO 12100. Puesto que no es posible descartar algunos riesgos residuales, deben tenerse en cuenta las siguientes indicaciones.

La no observación de las indicaciones de seguridad puede provocar riesgos para la salud y la vida.

Indicaciones generales de seguridad:

- Deben tenerse en cuenta las instrucciones de montaje Ri4Power VX25.
- El armario debe asegurarse durante el transporte, el montaje, la configuración y el desmontaje para evitar el vuelco y deslizamientos – ATENCIÓN: ¡Desplazamiento del centro de gravedad!
- Las barras colectoras no fijas L1, L2, L3 y N deben retirarse de los armarios antes del transporte.
- Riesgo de aplastamiento y corte al realizar el montaje y desmontaje de los componentes.
- Asegure las puertas del armario contra el desacoplamiento involuntario.
- El uso de accesorios Rittal puede modificar las características del armario.
- La abertura y manipulación de la instalación solo se permite en modo libre de tensión.
- En función de las condiciones de aplicación y del entorno deben realizarse trabajos de mantenimiento regulares en la instalación y documentarlos adecuadamente.
- Debe tenerse en cuenta el manual del sistema de armarios ensamblables VX25 (Ref. en www.rittal.com).

Antes de la puesta en marcha:

- Retirar los seguros de transporte.
- En caso necesario utilizar tapones de descarga de presión.
- Inspección visual de todos los puntos de fijación.
- Control de todos los pares de apriete.
- Comprobar la sujeción de todos los cables - tracción > 30 N.
- Comprobar las líneas de fuga y las distancias (por ej. en cada posición de montaje de los terminales) según la norma utilizada.
- Recoger las herramientas y los materiales de montaje.
- Realizar una prueba de seguridad eléctrica.

FI

Määräystenmukainen käyttö

VX25 Ri4Power System -järjestelmää saa käyttää pienjännitelaitteyhdistelmänä enintään 1 000 V AC:n tai 1 500 V DC:n nimellijännitteellä sisätiloissa.

VX25 Ri4Power System -järjestelmää kehitettäessä on arvioitu jo suunnitteluvaiheessa turvallisuuden kannalta kriittiset kohdat standardin DIN EN ISO 12100 mukaisella riskiarviolla ja vältetty ne. Koska joitakin vähäisiä jännönsriskejä ei voi poissulkea, on noudatettava seuraavia ohjeita.

Turvallisuusohjeiden noudattamatta jättäminen voi aiheuttaa vaaran terveydelle ja hengelle.

Yleiset turvallisuusohjeet:

- Noudata VX25 Ri4Power -asennusohjeita.
- Kaapit on suojattava kuljetuksen, purkamisen ja asennuksen aikana kaatumiselta ja liikkumiselta – HUOMAA: painopistevastointi!
- Ei-kiinteät pääkiskot L1, L2, L3 ja N on poistettava kotelosta ennen kuljetusta.
- Puristumis- ja leikkautumisvaara komponenttien asennuksen/purkamisen yhteydessä.
- Estä kotelon ovien ei-toivottu roikkuminen.
- Rittal-lisävarustekomponenttien käyttäminen saattaa vaikuttaa kotelon ominaisuuksiin.
- Laitteen saa avata ja sille saa tehdä töitä vain jännitteettömässä tilassa.
- Käyttökohteesta ja ympäristön olosuhteista riippuen laitteelle on suoritettava säännöllisesti huoltotöitä ja ne on dokumentoitava.
- Noudata kotelon ohjeita "Rivikaappijärjestelmä VX25" (tuotenumero osoitteessa www.rittal.com).

Ennen käyttöönottoa:

- Poista kuljetustuet.
- Aseta mahdolliset paineentasaustulpat.
- Tarkista kaikki kiinnityskohdat silmämääräisesti.
- Tarkista kaikki vääntömomentit.
- Tarkista kaikkien kaapelien tiivis kiinnitys – vetovoima > 30 N.
- Tarkista irrotus ja ilmareitit (esim. kaapelikengän jokaisen asennuskohdan yhteydessä) käytetyn standardin mukaisesti.
- Poista työkalut ja asennusmateriaalit.
- Suorita sähköinen turvallisuustarkastus.



2. Sikkerhedsanvisninger 2. Faisnéis sábháilteachta



DK

Forskriftsmæssig anvendelse

VX25 Ri4Power-systemet skal anvendes som lavspændings-styrebokskombination med en mærkespænding på maks. 1000 V AC eller 1500 V DC indvendigt.

Ved udviklingen af VX25 Ri4Power-systemet har vi allerede i konstruktionsstadiet kunnet vurdere og undgå sikkerhedskritiske punkter via en risikovurdering iht. DIN EN ISO 12100. Da visse resterende risici ikke helt kan udelukkes, skal man være opmærksom på følgende. Ved en tilsidesættelse af sikkerhedsanvisningerne kan der muligvis opstå fare for liv og helbred.

Generelle sikkerhedsanvisninger:

- Monteringsvejledningerne til VX25 Ri4Power skal læses grundigt.
- Skabet skal sikres mod at skabet vælter og det skal fastspændes under transport, montering og installation – OBS: Forskydning af tyngdepunktet!
- Ikke-faste hovedbøsninger L1, L2, L3 og N skal fjernes fra kabinettet før transport.
- Fare for knusning eller snitsår ved ind-/udbygning af komponenterne.
- Husdørene sikres mod utilsigtet frigørelse.
- Husegenskabene kan blive påvirket ved anvendelse af Rittal tilbehørskomponenter.
- Det er kun tilladt at åbne og arbejde med systemet, når strømmen er slået fra.
- Afhængigt af indsats- og miljøbetingelserne skal der udføres regelmæssige serviceeftersyn af systemet, som så også skal dokumenteres.
- Sørg for at følge installations- og betjeningsvejledningen på VX25 (artikelnummer på www.rittal.com).

Før ibrugtagning:

- Transportsikringer skal fjernes.
- Indsæt eventuelt trykafastningsprop.
- Visuel kontrol af alle fastgørelsessteder.
- Kontrol af alle tilspændingsmomenter.
- Kontroller, at alle kabler sidder fast – trækraft > 30 N.
- Kontroller krybestrækninger og frigang (f.eks. ved alle kabelskoenes monteringspositioner) iht. den anvendte standard.
- Fjern værktøj og monteringsmaterialer.
- Gennemfør en visuel kontrol af elsystemet.

IE

Úsáid bheartaithe

Is féidir an córas VX25 Ri4Power a úsáid taobh istigh mar chumasc ísealvoltais lascthrealaimh lena mbaineann uasvoltas rátáilte 1000 V SA nó 1500 V SD.

Le linn don chóras VX25 Ri4Power a bheith á fhorbairt, rinneadh pointí atá criticiúil ó thaobh na sábháilteachta a mheas agus rinneadh na pointí sin a sheachaint agus an córas á dhearadh. Rinneadh na rudaí sin trí mheasúnú riosca i gcomhréir le DIN EN ISO 12100 a dhéanamh. Ní mór na nótaí seo a leanas a chomhlíonadh toisc go bhfuil seans ann go bhfuil rioscaí iarmharacha ann fós. Mura gcomhlíontar na treoracha sábháilteachta, seans go gcuirfean an saol agus an tsláinte i mbaol.

Faisnéis ghinearálta sábháilteachta:

- Ní mór treoracha cóimeála VX25 Ri4Power a chomhlíonadh.
- Ní mór an chásáil a dhaingniú le linn iompair, cóimeála agus díchoimeála ionas nach dtitfidh nó nach sleamhnóidh sí – AIRE: Bogadh an mheáchanláir!
- Roimh na cásálacha a iompar, ní mór na busbharraí príomha neamhdhaingnithe L1, L2, L3 agus N a bhaint díobh.
- Riosca brúite agus gearrtha nuair a dhéantar comhpháirteanna a shuiteáil/dhíchóimeáil.
- Daingnigh doirse na cásála ionas nach dícheanglóidh siad de thaisme.
- D'fhéadfadh tionchar a bheith ag úsáid oiriúintí Rittal ar airíonna na cásála.
- Ní ceadmhach an córas a oscailt agus obair a dhéanamh air ach amháin nuair a bhíonn sé difhuinnmhithe.
- Ag brath ar na coinníollacha úsáide agus timpeallachta, ní mór obair chothabhála a dhéanamh ar an gcóras go rialta agus an obair sin a dhoiciméadú mar is cuí.
- Ní mór cloí le treoracha cóimeála agus oibriúcháin chóras nasctha cásála VX25 (uimhir earra faoi www.rittal.com).

Roimh choimisiúnú:

- Bain aon ghlais iompair atá ann.
- Más gá, ionsáigh an pluga faoisimh brú.
- Déan iniúchadh físiúil ar phointí daingnithe.
- Déan na toirc theannta a rialú.
- Seiceáil teinne na gcáblaí – fórsa inteannta >30 N.
- Seiceáil na faid ligin agus glanspásanna (m.sh. i ngach suíomh suiteála de na cluasóga cábla) i gcomhréir leis an gcaighdeán atá curtha i bhfeidhm.
- Bain na huirlisí agus aon ábhair feistithe.
- Déan scrúdú ar an tsábháilteacht leictreach.



2. Wskazówki dotyczące bezpieczeństwa

2. Bezpečnostní pokyny



PL

Zastosowanie zgodne z przeznaczeniem

System VX25 Ri4Power może być stosowany jako zestaw rozdzielnic i sterownic niskonapięciowych o napięciu znamionowym nieprzekraczającym 1000 V AC lub 1500 V DC wewnątrz budynków.

Krytyczne pod względem bezpieczeństwa punkty projektu systemu VX25 Ri4Power zostały wyeliminowane już w fazie konstruowania dzięki analizie ryzyka wg normy EN ISO 12100. Ponieważ nie można wykluczyć niektórych pozostałych zagrożeń, należy przestrzegać poniższych wskazówek.

Nieprzestrzeganie wskazówek bezpieczeństwa może spowodować niebezpieczeństwo dla życia i zdrowia.

Ogólne wskazówki dotyczące bezpieczeństwa:

- Przestrzegać instrukcji montażu VX25 Ri4Power.
- Podczas transportu, montażu, konfiguracji i demontażu obudowa musi być zabezpieczona przed przewróceniem – UWAGA: Przesunięcie środka ciężkości!
- Niezamontowany w szafie system szynowy L1, L2, L3 oraz N musi być usunięty z obudowy przed transportem.
- Niebezpieczeństwo zgniecenia i skaleczenia przy montażu lub demontażu komponentów.
- Drzwi obudowy muszą być zabezpieczone przed przypadkowym wyjęciem.
- Zastosowanie komponentów akcesoriów Rittal może wpłynąć na właściwości obudowy.
- Otwieranie i praca przy urządzeniu są dozwolone tylko wówczas, gdy urządzenie jest odłączone od napięcia.
- W zależności od warunków eksploatacji i otoczenia niezbędne jest przeprowadzanie regularnych prac konserwacyjnych. Prace te muszą być odpowiednio udokumentowane.
- Przestrzegać instrukcji montażowej systemu szaf szeregowych VX25 (numer katalogowy na www.rittal.com).

Przed uruchomieniem:

- Usunąć istniejące zabezpieczenia transportowe.
- Ewentualnie założyć zawory wyrównania ciśnienia.
- Sprawdzić wizualnie wszystkie punkty mocowania.
- Skontrolować wszystkie momenty dokręcania.
- Sprawdzić prawidłowość przymocowania wszystkich kabli – siła naciągu > 30 N.
- Sprawdzić odstęp izolacyjny powierzchniowe i powietrzne (np. przy każdym położeniu montażowym tulejek kablowych) zgodnie z zastosowanym standardem.
- Usunąć narzędzia i materiały montażowe.
- Przeprowadzić elektryczną kontrolę bezpieczeństwa.

CZ

Použití v souladu s určením

Systém VX25 Ri4Power je jako kombinovaný rozváděč nízkého napětí s jmenovitým napětím maximálně 1000 V AC nebo 1500 V DC určen pro používání uvnitř budov.

Při vývoji systému VX25 Ri4Power byly již při konstrukci posouzeny a eliminovány bezpečnostně kritické body na základě posouzení rizika dle DIN EN ISO 12100. Protože některá dodatečná rizika nelze vyloučit, je nutné dodržovat následující pokyny.

Při nedodržení bezpečnostních pokynů může dojít k ohrožení zdraví a života.

Všeobecné bezpečnostní pokyny:

- Je nutné dodržovat montážní návodů VX25 Ri4Power.
- Skříň je nutné během přepravy, instalace, vystrojování a demontáže zajistit proti překlopení a sklouznutí – POZOR: změna těžiště!
- Neupevněné přípojnice L1, L2, L3 a N je nutné před přepravou vyjmout ze skříně.
- Nebezpečí přiskřípnutí a pořezání při montáži/demontáži komponentů.
- Zajistěte dveře skříně proti neúmyslnému vysazení.
- Při použití komponentů příslušenství Rittal mohou být ovlivněny vlastnosti skříně.
- Otevřít zařízení a zahájit na něm práce je přípustné jen po odpojení napájení.
- V závislosti na podmínkách použití a okolních podmínkách je nutné provádět na zařízení pravidelné údržbové práce a odpovídajícím způsobem je zdokumentovat.
- Pro systémové skříně VX25 je nutné dbát montážního návodu a návodu k použití (objednací číslo na www.rittal.com).

Před uvedením do provozu:

- Odstraňte stávající transportní zajištění.
- Případně namontujte tlakové zátky pro odvod tlaku.
- Vizualně zkontrolujte všechny body montážních spojení.
- Překontrolujte všechny utahovací momenty.
- Ověřte řádnou instalaci všech kabelů – tažná síla > 30 N.
- Zkontrolujte povrchové cesty a vzdušné vzdálenosti (např. u každé montážní polohy kabelových ok) dle použité normy.
- Odstraňte nářadí a montážní materiály.
- Proveďte elektrickou bezpečnostní zkoušku.



2. Инструкции за безопасност

2. Меры безопасности



BG

Употреба по предназначение

Системата VX25 Ri4Power е предназначена за използване като комплектно комутационно устройство за ниско напрежение с номинално напрежение от максимум 1000 V AC или 1500 V DC в затворено пространство.

При разработването на системата VX25 Ri4Power са оценени и избегнати още във фазата на проектирането критични за безопасността точки чрез оценка на риска съгласно DIN EN ISO 12100. Тъй като известни остатъчни рискове не може да бъдат изключени, трябва да се спазват следните указания.

При неспазване на указанията за безопасност съществува евентуална опасност за здравето и живота.

Общи указания за безопасност:

- Следвайте инструкциите за монтаж на VX25 Ri4Power.
- Осигурете корпуса по време на транспортиране, монтаж/демонтаж, срещу преобръщане и приплъзване – ВНИМАНИЕ: изместване на центъра на тежестта!
- Нефиксираните шини L1, L2, L3 и N трябва да бъдат отстранени от шкафовете преди транспортиране.
- Опасност от премазване и порязване при монтаж и демонтаж на компонентите.
- Осигурете вратите на корпуса срещу неволно откчане.
- Използването на допълнителни компоненти на Rittal може да окаже влияние върху характеристиките на корпуса.
- Отварянето и работата по оборудването е разрешено само в състояние без напрежение.
- В зависимост от условията на използване и околната среда трябва редовно да се извършват дейности по поддръжката на оборудването, които съответно да се документират.
- Трябва да се спазват инструкциите за асемблиране и експлоатация на серия VX25 (по продуктивния номер в www.rittal.com).

Преди пускане в експлоатация:

- Отстранете наличните транспортни осигуровки.
- При нужда използвайте тапи за освобождаване на налягането.
- Проверете визуално всички точки на закрепване.
- Проверете всички моменти на затягане.
- Проверете дали кабелите са положени добре – сила на опъване > 30 N.
- Проверете маршрута на кабелите по пода, стените и във въздуха (например при всяко място на поставяне на кабелни обувки) дали отговаря на използвания стандарт.
- Отстранете инструментите и монтажните материали.
- Извършете проверка за електрическа безопасност.

RU

Использование согласно назначению

Система VX25 Ri4Power используется в качестве низковольтного комплектного устройства с номинальным напряжением не более 1000 В AC или 1500 В DC внутри помещений.

При разработке системы VX25 Ri4Power в ходе оценки рисков согл. DIN EN ISO 12100 уже на стадии конструирования были оценены и минимизированы факторы, влияющие на безопасность. Так как некоторые остаточные риски исключить не возможно, следует принять во внимание следующие указания.

При несоблюдении мер безопасности возможна опасность для здоровья и жизни.

Общие меры безопасности:

- Соблюдать требования руководства по монтажу VX25 Ri4Power.
- Во время транспортировки, монтажа и демонтажа корпус должен быть зафиксирован от опрокидывания. – ВНИМАНИЕ: смещение центра тяжести!
- Незафиксированные главные шины L1, L2, L3 и N перед транспортировкой удалить из шкафа.
- Опасность раздавливания и пореза при монтаже/демонтаже компонентов.
- Зафиксировать двери от непреднамеренного демонтажа.
- При использовании комплектующих Rittal возможно влияние на целостность корпуса.
- Открытие и работа с установкой допускается только в обесточенном состоянии.
- В зависимости от условий применения и окружающей среды необходимо проводить регулярные работы на установке, которые должны соответствующим образом документироваться.
- Учитывать требования руководства по монтажу и эксплуатации линейных распределительных шкафов VX25 (арт. № см. на www.rittal.com).

Перед вводом в эксплуатацию:

- Удалить имеющиеся предохранительные устройства для транспортировки.
- При необходимости использовать заглушки для сброса давления.
- Визуальный контроль всех точек крепления.
- Контроль всех моментов затяжки.
- Проверить фиксацию всех кабелей – сила прижатия > 30 N.
- Проверить пути утечки и воздушные зазоры (напр. при любом монтаже кабельных наконечников) согласно используемому стандарту.
- Удалить инструменты и монтажный материал.
- Провести проверку электрической безопасности.



2. Υποδείξεις ασφαλείας 2. Instrucțiuni de siguranță



GR

Προβλεπόμενη χρήση

Το σύστημα VX25 Ri4Power προορίζεται για χρήση ως συνδυασμός συσκευών ζεύξης χαμηλής τάσης με μέγιστη τάση μέτρησης 1000 V AC ή 1500 V DC σε εσωτερικούς χώρους.

Στην εξέλιξη του συστήματος VX25 Ri4Power πραγματοποιήθηκε αξιολόγηση κινδύνων κατά DIN EN ISO 12100 και από το στάδιο κατασκευής αξιολογήθηκαν και αποφεύχθηκαν τα σημεία που είναι κρίσιμα για την ασφάλεια. Επειδή δεν μπορούν να αποκλειστούν ορισμένοι ελάχιστοι υπολειπόμενοι κίνδυνοι θα πρέπει να τηρηθούν οι εξής υποδείξεις.

Εάν δεν τηρηθούν οι υποδείξεις ασφαλείας υπάρχει κίνδυνος για την υγεία και τη ζωή.

Γενικές υποδείξεις ασφαλείας:

- Πρέπει να τηρηθούν οι οδηγίες τοποθέτησης του VX25 Ri4Power.
- Το περιβλήμα πρέπει να ασφαρίζεται κατά της μεταφοράς και της συναρμολόγησης, της διαμόρφωσης και της αποσυναρμολόγησης – ΠΡΟΣΟΧΗ: Μετατόπιση κέντρου βάρους!
- Οι μη σταθερές κύριες μπάρες L1, L2, L3 και N πρέπει να αφαιρεθούν από τα περιβλήματα πριν από τη μεταφορά.
- Κίνδυνος σύνθλιψης ή κοψίματος κατά την τοποθέτηση/αφαίρεση των εξαρτημάτων.
- Οι πόρτες του περιβλήματος πρέπει να είναι ασφαλισμένες από πιθανή αθέλητη αφαίρεση.
- Από τη χρήση εξαρτημάτων πρόσθετου εξοπλισμού Rittal ενδέχεται να επηρεαστούν οι ιδιότητες του περιβλήματος.
- Το άνοιγμα και η εκτέλεση εργασιών στην εγκατάσταση επιτρέπεται μόνο μετά από διακοπή της τροφοδοσίας τάσης.
- Απαιτείται η εκτέλεση τακτικών εργασιών συντήρησης στην εγκατάσταση και η τεκμηρίωσή τους, ανάλογα με τις συνθήκες χρήσης και περιβάλλοντος.
- Πρέπει να τηρούνται οι οδηγίες για το περιβλήμα (κωδικός προϊόντος στο www.rittal.com).

Πριν από την έναρξη λειτουργίας:

- Αφαιρέστε τις υπάρχουσες ασφάλειες μεταφοράς.
- Εάν απαιτείται, τοποθετήστε τις τάπες εκτόνωσης της πίεσης.
- Ελέγξτε οπτικά όλα τα σημεία στερέωσης.
- Ελέγξτε όλες τις ροπές σύσφιξης.
- Ελέγξτε τη σταθερή τοποθέτηση όλων των καλωδίων - δύναμη εφελκυσμού > 30 N.
- Ελέγξτε τα διάκενα και τις γραμμές διαφυγής (π.χ. σε κάθε θέση τοποθέτησης των ακροδεκτών καλωδίων) σύμφωνα με το εφαρμοζόμενο πρότυπο.
- Απομακρύνετε τα εργαλεία και τα υλικά συναρμολόγησης.
- Πραγματοποιήστε έναν έλεγχο ηλεκτρικής ασφάλειας.

RO

Utilizare conform destinației

Sistemul VX25 Ri4Power trebuie utilizat în mediu interior, pentru dispozitive de comutare de joasă tensiune cu o tensiune maximă de 1.000 VAC sau 1.500 V cc.

În timpul dezvoltării sistemului VX25 Ri4Power, punctele critice de siguranță au fost evaluate și evitate încă din stadiul de proiectare, prin intermediul unei evaluări a riscurilor conform DIN EN ISO 12100. Deoarece există un număr mic de riscuri reziduale care nu pot fi excluse, trebuie respectate următoarele instrucțiuni.

În cazul nerespectării instrucțiunilor de siguranță, există posibilitatea apariției situațiilor de risc pentru sănătate și viață.

Informații generale privind siguranța:

- Trebuie urmate instrucțiunile de montaj VX25 Ri4Power.
- În timpul transportului, asamblării și demontării, protejați dulapul împotriva alunecării și răsturnării.
ATENȚIE: centrul de greutate!
- Barele L1, L2, L3 și N, nefixate, trebuie scoase din dulapuri înainte de transport.
- Pericol de strivire și tăiere la montarea/demontarea componentelor.
- Asigurați ușile dulapului împotriva desprinderii accidentale.
- În cazul în care utilizați componente auxiliare Rittal, este posibil să influențați caracteristicile dulapului.
- Deschiderea și efectuarea de lucrări la instalație este permisă doar când aceasta este scoasă de sub tensiune.
- În funcție de condițiile de utilizare și de mediul înconjurător, trebuie efectuate lucrări de întreținere periodice la instalație și documentate corespunzător.
- Trebuie respectate instrucțiunile de instalare și operare ale sistemului VX25 (numărul articolului pe www.rittal.com).

Înainte de punerea în funcțiune:

- Îndepărtați toate echipamentele de siguranță pentru transport.
- Dacă este necesar, montați dispozitivul pentru eliberarea presiunii.
- Verificați vizual toate punctele de fixare.
- Verificați toate cuplurile de strângere.
- Verificați dacă toate cablurile sunt bine fixate. Forța de întindere > 30 N.
- Verificați distanțele de izolare (de ex: fiecare poziție de montare a cablului) în conformitate cu standardul aplicat.
- Îndepărtați echipamentele și materialele de montare.
- Realizați un test de siguranță electrică.



2. Sigurnosne upute 2. Biztonsági tudnivalók



HR

Predviđena uporaba

Sustav VX25 Ri4Power valja upotrebljavati u zatvorenom prostoru kao niskonaponsku kombinaciju rasklopnih uređaja s nazivnim naponom do najviše 1000 V AC ili 1500 V DC.

Tijekom razvoja sustava VX25 Ri4Power, točke kritične za sigurnost procijenjene su i izbjegnute postupkom procjene rizika prema normi DIN EN ISO 12100 već u fazi konstrukcije. Budući da se nekolicina preostalih rizika nije mogla isključiti, treba se pridržavati napomena u nastavku.

U slučaju zanemarivanja sigurnosnih napomena može nastati opasnost po zdravlje i život ljudi.

Opće sigurnosne napomene:

- Pridržavajte se uputa za montažu sustava VX25 Ri4Power.
- Kućište mora biti osigurano od prevrtanja i klizanja tijekom transporta, montaže i demontaže – POZOR: pomicanje težišta!
- Neosigurane glavne sabirnice L1, L2, L3 i N moraju se ukloniti iz ormara prije transporta.
- Opasnost od prignječenja i posjekotina prilikom montaže/demontaže dijelova.
- Osigurajte vrata kućišta od nehotičnog odvajanja.
- Pri upotrebi dodatnih dijelova marke Rittal moguć je utjecaj na svojstva kućišta.
- Otvaranje sustava i zahvati na njemu dopušteni su samo kada sustav nije pod naponom.
- Ovisno o uvjetima primjene i uvjetima u okolini, na postrojenju se moraju redovno obavljati i odgovarajuće dokumentirati radovi održavanja.
- Pridržavajte se uputa proširivog sustava modularnih VX25 ormara (broj artikla na www.rittal.com).

Prije puštanja u pogon:

- Uklonite svu opremu za učvršćivanje pri transportu.
- Po potrebi umetnite čep za otpuštanje tlaka.
- Vizualno provjerite sva mjesta pričvršćivanja.
- Provjerite sve momente pritezanja.
- Provjerite učvršćenost svih kabela – vlačna sila > 30 N.
- Provjerite puzanje i razmake (npr. u svakom položaju ugradnje kableske stopice) prema primjenjivom standardu.
- Uklonite alate i materijale za montažu.
- Obavite sigurnosnu provjeru električnog sustava postrojenja.

HU

Rendeltetészerű használat

A VX25 Ri4Power System kisfeszültségű kapcsolóberendezés-kombinációként, legfeljebb 1000 V AC vagy 1500 V DC névleges feszültséggel használható beltérben.

A VX25 Ri4Power System kifejlesztésekor már a konstrukció során kiértékeljük a DIN EN ISO 12100 szerinti biztonságilag kritikus pontokat, és elkerültük azokat. Mivel minimális fennmaradó kockázat nem zárható ki, az alábbi tudnivalókat figyelembe kell venni.

A biztonsági tudnivalók figyelmen kívül hagyása esetén fennáll a sérülés- és életveszély.

Általános biztonsági tudnivalók:

- A VX25 Ri4Power szerelési utasításait be kell tartani.
- A házat a szállítás, beszerelés, leszerelés és szétszerelés során a felbillenés és a megcsúszás ellen biztosítani kell – FIGYELEM: Súlypont áthelyeződése!
- A nem rögzített L1, L2, L3 és N főgyűjtősíneket a szállítás előtt a szekrényből ki kell venni.
- Zúzódás és vágási sérülés veszélye a komponensek be-/kiszérése során.
- A ház ajtóit véletlen kiakasztás ellen biztosítani kell.
- Rittal tartozék komponensek felhasználásakor a ház tulajdonságai megváltozhatnak.
- A berendezést kinyitni és azon munkálatokat végezni csak feszültségmentes állapotban szabad.
- Az alkalmazási és környezeti feltételektől függően a berendezésen rendszeres karbantartást kell végezni, és azt megfelelően dokumentálni kell.
- A VX25 sorolható szekrény szerelési- és kezelési útmutatóját (cikkszámot lásd a www.rittal.com oldalon) figyelembe kell venni.

Üzembe helyezés előtt:

- A meglévő szállítási biztosítóelemeket távolítsa el.
- Ha szükséges, a nyomásmentesítő dugaszt helyezze be.
- Az összes rögzítési pontot ellenőrizze szemrevételezéssel.
- Az összes meghúzási nyomatékot ellenőrizze.
- A kábelekm szilárd rögzítését ellenőrizze - meghúzási nyomaték > 30 N.
- Az alkalmazott szabvány szerinti ív- és légrézszakaszokat (pl. a kábelsaruk minden beépítési helyzeténél) ellenőrizze.
- Távolítsa el a szerszámokat és szerelési anyagokat.
- Végezzen elektromos biztonsági ellenőrzést.



2. Saugos nurodymai 2. Ohutusteatis



LT

Naudojimas pagal paskirtį

Kadangi sistema „VX25 Ri4Power“ yra žemosios įtampos perjungimo įrenginių sąranka su didžiausia 1 000 V AC arba 1 500 V DC vardine įtampa, ji turi būti naudojama patalpoje.

Kuriant sistemą „VX25 Ri4Power“ dar projektavimo etape kritiniai saugos taškai buvo įvertinti ir pašalinti atlikus rizikos vertinimą pagal DIN EN ISO 12100. Kadangi negalima atmesti keleto liekamųjų rizikų, būtina laikytis toliau pateikiamų nuorodų.

Jei nesilaikoma saugos nurodymų, išlieka pavojaus sveikatai ir gyvybei galimybė.

Bendrieji saugos nurodymai:

- Būtina laikytis „VX25 Ri4Power“ montavimo instrukcijų.
- Transportavimo, surinkimo, konfigūravimo ir išmontavimo metu korpusas turi būti pritvirtintas, kad neapvirstų ir nepasislinktų – DEMESIO: Perkeliamas sunkio centras!
- Prieš transportavimą iš korpusų turi būti išimtos nefiksuotos pagrindinės šynos L1, L2, L3 ir N.
- Montuojant / išmontuojant komponentus kyla pavojus prispausti ir įpjauti.
- Užfiksuokite korpuso duris, kad netyčia neatsidarytų.
- Naudojami „Rittal“ priedų komponentai gali veikti korpuso savybes.
- Atidaryti ir dirbti prie įrenginio galima tik tuo atveju, jei išjungta įtampa.
- Atsižvelgiant į panaudojimo ir aplinkos sąlygas reikia reguliariai atlikti įrenginio priežiūros darbus ir atitinkamai juos dokumentuoti.
- Privaloma laikytis spintų sistemos VX25 montavimo ir naudojimo instrukcijų (prekės numerį galima rasti www.rittal.com).

Prieš pradėdant naudoti:

- Pašalinkite transportavimui naudotus fiksatorius.
- Jei reikia, naudokite slėgio mažinimo kamščius.
- Apžiūrėkite visas tvirtinimo vietas.
- Patikrinkite visus užveržimo momentus.
- Patikrinkite, ar visi kabeliai tvirtai laikosi (įtempimo jėga > 30 N)
- Pagal naudotą standartą patikrinkite, ar nėra nusvirusių ir su oro tarpais atkarpų (pvz., kiekvienoje kabelio antgalio montavimo vietoje).
- Nuimkite įrankius ir montavimo medžiagas.
- Patikrinkite, ar elektra įrenginyje naudojama saugiai.

EE

Sihtotstarbeline kasutus

VX25 Ri4Power System on madalpingelülitusseadmete kombinatsioon, mida võib kasutada siseruumis nimipingega max 1000 V AC või 1500 V DC.

VX25 Ri4Power Systemi arendamisel käigus hinnati ja ennetatud olulisi ohutustegureid juba konstrueerimisfaasis standardile DIN EN ISO 12100 vastava riskianalüüsiga. Kuna välistada ei saa mõningaid jääkriske, tuleb järgida järgmisi juhiseid.

Ohutusjuhiste eiramisel tagajärjeks võib olla oht tervisele ja elule.

Üldised ohutusjuhised:

- Järgige seadme VX25 Ri4Power paigaldusjuhendeid.
- Korpus tuleb transpordida, paigaldamisel ja eemaldamisel ajaks kindlustada ümbermineku ja libisemise vastu – TÄHELEPANU: jälgige raskuskeskme muutust!
- Voolusiinid L1, L2, L3 ja N, mis ei ole fikseeritud, on vaja transpordida ajaks kappidest välja võtta.
- Muljumis- ja löökoht komponentide paigaldamisel/eemaldamisel.
- Kindlustage korpuse luugid lahtitulemise vastu.
- Rittali tarvikukomponentide kasutamine võib mõjutada korpuse omadusi.
- Süsteemi avada ja selle juures töid teha tohib ainult süsteemi pingevabas olekus.
- Olenevalt kasutus- ja keskkonnatingimustest tuleb süsteemi regulaarselt hooldada ja hooldustööd nõuetekohaselt dokumenteerida.
- Järgige kilbisüsteemi VX25 montaažijuhendit (tootekoodi leiate kodulehel www.rittal.com).

Enne kasutuselevõttu:

- Eemaldage transpordikaitsmed.
- Vajaduse korral paigaldage rõhuvähenduskorgid.
- Kontrollige visuaalselt kõiki kinnituskohi.
- Kontrollige kõiki pingutusmomente.
- Kontrollige kõigi kaablite kindlat kinnitust – tõmbejõud > 30 N.
- Kontrollige room- ja isoleervahemikke (nt kaablikingade iga paigaldusasendi juures) kasutatava standardi järgi.
- Eemaldage tööriistad ja paigaldusmaterjalid.
- Tehke elektriõhutus kontroll.



2. Drošības prasības 2. Varnostni napotki



LV

Paredzētais lietošanas veids

VX25 Ri4Power sistēma paredzēta lietošanai iekšējās kā zemsprieguma pārslēgšanas iekārtu kombinācija ar bremzēšanas spriegumu līdz 1000 V maiņstrāvai vai 1500 V līdzstrāvai.

Izstrādājot VX25 Ri4Power sistēmas, jau konstruēšanas stadijā tika izvērtēti un novērtēti drošībai kritiskie punkti risku izvērtēšanā saskaņā ar DIN EN ISO 12100. Tā kā dažus atlikušos riskus nevar izslēgt, jāievēro tālāk minētie norādījumi.

Neievērojot drošības norādījumus, pastāv iespējams risks veselībai un dzīvībai.

Vispārīgie drošības norādījumi:

- Jāievēro VX25 Ri4Power montāžas instrukcijas.
- Korpuss jānodrošina pret apgāšanos un izslidēšanu transportēšanas, montāžas un demontāžas laikā — UZMANĪBU: Smaguma centra novirze!
- Nenofiksētās pamatkopnes L1, L2, L3 un N jābūt izņemtas no sadalēm pirms transportēšanas.
- Saspiešanas un sagriešanas risks, montējot un demontējot komponentus.
- Nodrošiniet korpusa durvis pret nejaušu izcelšanos no virām.
- Izmantojot Rittal piederumu komponentus, iespējama ietekme uz korpusa īpašībām.
- Iekārtas atvēršana un strādāšana ar to atļauta tikai tad, kad iekārta atvienota no sprieguma.
- Atkarībā no izmantošanas un apkārtējās vides apstākļiem regulāri jāveic iekārtas apkopes darbi un tie atbilstoši jādokumentē.
- Ievērojiet VX25 lielgabariņa korpusu sistēmas instrukciju (izstrādājuma numurs pieejams www.rittal.com).

Ekspluatācijas uzsākšanai:

- Noņemiet esošos transportēšanas drošinātājus.
- Iespējams izmantot spiediena atslogošanas aizbāzni.
- Vizuāli pārbaudiet visas stiprinājumu vietas.
- Pārbaudiet visus pievilkšanas griezes momentus.
- Pārbaudiet vai visi kabeli ir cieši piestiprināti — pievilkšanas spēks > 30 N.
- Pārbaudiet noplūdes ceļus un gaisa spraugas (piemēram, katrā kabelkurpjū uzstādīšanas stāvoklī) saskaņā ar izmantoto standartu.
- Novāciet instrumentus un montāžas materiālus.
- Veiciet elektrodrošības pārbaudi.

SI

Predvidēta uporaba

Sistēm VX25 Ri4Power se uporablja v notranjem prostoru kot kombinacija nizkonapetostnih stikalnih naprav z izmenično nazivno napetostjo največ 1000 V ali enosmerno nazivno napetostjo 1500 V.

Pri razvijanju sistema VX25 Ri4Power so bili že v fazi izdelave ovrednoteni in odpravljeni varnostno kritični vidiki ocene tveganja v skladu s standardom DIN EN ISO 12100. Nekaterih ostalih tveganj ni mogoče izključiti, zato je treba upoštevati naslednje napotke.

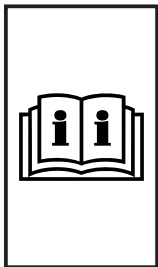
Pri neupoštevanju varnostnih napotkov obstaja možnost nevarnosti za zdravje in življenje.

Splošni varnostni napotki:

- Upoštevati je treba navodila za montažo sistema VX25 Ri4Power.
- Ohišje mora biti zavarovano pred prevračanjem in zdrsom med prevozom, namestitvijo, odstranjevanjem in demontažo — POZOR: Sprememba težišča!
- Nepriprjene glavne zbiranke L1, L2, L3 in N je potrebno pred transportom iz ohišij odstraniti.
- Nevarnost zmečkanin in ureznin pri vgrajevanju/odstranjevanju komponent.
- Vrata ohišja zavarujte pred nenamernim snetjem.
- Uporaba dodatnih komponent podjetja Rittal lahko vpliva na lastnosti ohišja.
- Odpiranje naprave in izvajanje del na napravi sta dovoljena le, če naprava ni pod napetostjo.
- Odvisno od pogojev uporabe in pogojev v okolju je na napravi treba izvajati redna vzdrževalna dela in jih ustrezno dokumentirati.
- Upoštevati je potrebno navodila za sistemsko ohišja VX25 (številka izdelka na strani www.rittal.com).

Pred zagonom:

- Odstranite razpoložljiva transportna varovala.
- Po potrebi vstavite čep za sprostitev tlaka.
- Vizualno preverite vsa pritrdišča.
- Preverite vse zatezne momente.
- Preverite, ali so vsi kabli pritrdjeni — pri tem uporabite vlečno silo > 30 N.
- Preverite plazilne razdalje in zračnost (npr. pri vsakem položaju namestitve kabelskih čevljev) v skladu z uporabljenim standardom.
- Odstranite orodje in pribor za montažo.
- Izvedite kontrolo varnosti električnih povezav.



2. Bezpečnostné pokyny 2. Instruções de segurança



SK

Používanie v súlade s účelom

Systém VX25 Ri4Power sa ako kombinácia nízkonapäťových spínacích zariadení musí používať s menovitým napätím maximálne 1 000 V AC alebo 1 500 V DC v interiéri.

Pri vývoji systému VX25 Ri4Power sa už vo fáze konštrukcie zhodnotili a odstránili body kritické pre bezpečnosť na základe posúdenia rizík podľa DIN EN ISO 12100. Keďže nebolo možné vylúčiť niektoré zostatkové riziká, je nutné dodržiavať nižšie uvedené pokyny. V prípade nerešpektovania bezpečnostných pokynov hrozí nebezpečenstvo ohrozenia zdravia a života.

Všeobecné bezpečnostné pokyny:

- Musia sa dodržiavať návody na montáž VX25 Ri4Power.
- Teleso sa musí počas prepravy, montáže a demontáže zaistiť proti prevrhnutiu alebo proti pošmyknutiu – POZOR: presun ťažiska!
- Pred prepravou musia byť z rozvádzačov odstránené nezaistené prípojnice L1, L2, L3 a N.
- Nebezpečenstvo pomliaždenia a porezania pri montáži/demontáži komponentov.
- Dvere zabezpečte proti neúmyselnému vyveseniu.
- Pri používaní komponentov príslušenstva od spoločnosti Rittal je možné ovplyvnenie vlastností výrobku.
- Otváranie a práce na zariadení sú povolené len v stave bez napätia.
- V závislosti od podmienok nasadenia a okolitého prostredia sa musia na zariadení vykonávať pravidelné údržbové práce, ktoré treba zdokumentovať.
- Pri montáži a používaní rozvádzačovej skrine VX25 (číslo produktu na www.rittal.com) musia byť dodržané pokyny v návode.

Pred uvedením do prevádzky:

- Odstráňte príslušné prepravné poistky.
- Prípadne nasadte zátky na odľahčenie od tlaku.
- Vykonajte vizuálnu kontrolu všetkých miest slúžiacich na upevnenie.
- Vykonajte kontrolu všetkých ťahovacích momentov.
- Skontrolujte pevnú polohu všetkých káblov – ťažná sila > 30 N.
- Skontrolujte povrchové trasy káblov a vzdušné čiary (napr. pri každej montážnej polohe káblových príchytiek) podľa používanej normy.
- Odstráňte náradie a montážny materiál.
- Vykonajte bezpečnostnú skúšku elektrického zapojenia.

PT

Utilização

O sistema VX25 Ri4Power deve ser utilizado em espaços internos como combinação de componentes de distribuição de baixa tensão com voltagem nominal de, no máximo, 1000 V AC ou 1500 V DC.

Durante a fase de projeto do sistema VX25 Ri4Power, foi realizada uma avaliação dos riscos segundo a norma DIN EN ISO 12100 para analisar e evitar aspectos críticos para a segurança. Como não é possível descartar alguns riscos residuais, é necessário seguir as instruções abaixo.

Existe um potencial risco de vida ou de danos para a saúde se as instruções de segurança não forem seguidas.

Instruções gerais de segurança:

- Seguir as instruções de montagem do sistema VX25 Ri4Power.
- O armário deve ser fixado, para não cair ou escorregar, durante o transporte, a instalação, configuração e desmontagem – ATENÇÃO: deslocamento do centro de gravidade!
- Os barramentos principais L1, L2, L3 e N devem ser removidos dos gabinetes antes do transporte.
- Há perigo de esmagamento e corte ao instalar/remover os componentes.
- Assegurar que as portas do armário não possam se desencaixar acidentalmente.
- A utilização de acessórios da Rittal pode ter impacto sobre as características do armário.
- Somente é permitido abrir a instalação e realizar serviços com a alimentação de energia desligada.
- Dependendo das condições da aplicação e do ambiente, é necessário realizar serviços regulares de manutenção da instalação e fazer sua devida documentação.
- Seguir o manual de montagem e uso do sistema de armários modulares VX25 (verificar o código de referência no site www.rittal.com).

Antes do primeiro funcionamento:

- Remover os dispositivos de segurança usados para o transporte.
- Eventualmente usar tampões para alívio da pressão.
- Fazer uma vistoria dos pontos de fixação.
- Checar todos os torques de aperto.
- Verificar se todos os cabos estão perfeitamente fixados - força de tração > 30 N.
- Controlar as linhas de fuga (por exemplo: em cada posição de montagem dos terminais) de acordo com o padrão utilizado.
- Remover as ferramentas e material de montagem.
- Realizar um teste de segurança elétrica.



2. Struzzjonijiet ta' prekawzjoni



MT

Użu skont l-ispeċifikazzjonijiet

Is-sistema tal-enerġija VX25 Ri4 għandha tintuża bħala apparat ta' mmuntar ta' switchgear ta' vultaġġ baxx b'vultaġġ nominali ta' mhux aktar minn 1000 V AC jew 1500 V DC fuq ġewwa.

Matul l-iżvilupp tas-Sistema tal-Enerġija VX25 Ri4, diġà ġew iwwalutati u evitati punti kritiċi għas-sigurtà fl-istadju tal-kostruzzjoni permezz ta' valutazzjoni tar-riskju skont DIN EN ISO 12100. Peress li ma jistgħux jiġu esklużi xi ftit riskji residwi, wiehed għandu josserva dan li ġej. In-nuqqas ta' konformità mal-istruzzjonijiet dwar is-sigurtà, jista' jkun ta' periklu għas-saħħa u għall-hajja.

Struzzjonijiet ġenerali dwar is-sigurtà:

- Għandhom jiġu osservati l-istruzzjonijiet dwar l-immuntar tas-sistema tal-enerġija VX25 Ri4.
- Il-kisi għandu jkun protett biex matul it-trasport, l-installazzjoni jew it-tneħħija ma jinqalibx u jiżloq – ATTEZZJONI: l-ċentru tal-gravità!
- L-iżbarer ta' distribuzzjoni ewlenin mhux imwahrin L1, L2, L3 u N għandhom jitneħħew mill-kabinetti qabel it-trasport.
- Riskju ta' tghaffiġ u qtugħ waqt l-installazzjoni/it-tneħħija tal-komponenti.
- Kun ċert li l-bibien tal-kabinett ma jinfethux b'mod mhux intenzjonat.
- Meta tuża komponenti aċċessorji ta' Rittal, huwa possibbli li jiġu influwenzati l-proprjetajiet tal-kisi.
- Il-ftuħ u x-xogħol fuq is-sistema huma permessi biss fi stat minghajr elettriku.
- Skont l-applikazzjoni u l-kundizzjonijiet ambjentali, xogħol regolari ta' manutenzjoni fuq is-sistema għandu jitwettaq u jiġi ddokumentat kif xieraq.
- Għandhom jiġu osservati l-istruzzjonijiet dwar l-installazzjoni u t-tħaddim tas-sistema tal-kabinett addizzjonali VX25 (tista' ssib in-numru tal-artiklu fuq www.rittal.com).

Qabel it-tħaddim:

- Nehhi t-tagħmir ta' protezzjoni eżistenti ta' matul it-trasport.
- Jekk ikun meħtieġ, uża plaggs li jneħħu l-pessjoni.
- Ispezzjona b'għajnejk il-punti ta' twaħħil kollha.
- Ikkontrolla t-torques tal-issikkar kollha.
- Ikkontrolla l-issikkar tal-kejls kollha - Forza tat-tensjoni > 30 N.
- Ikkontrolla l-creepage u l-isparju (pereżempju, ma' kull pożizzjoni ta' installazzjoni tal-lugs tal-kejls) skont l-istandard użat.
- Nehhi l-ghodda u l-materjali tal-immuntar.
- Wettaq kontroll tas-sigurtà elettriku.



3. Systembeschreibung VX25 Ri4Power

3. System description – VX25 Ri4Power

3. Description du système VX25 Ri4Power

DE

3.1 Allgemeines

Das Schaltanlagen-System VX25 Ri4Power ist vorgesehen zur Herstellung von Niederspannungs-Schaltanlagen im Bereich des Steuerungs- und Schaltanlagenbaus sowie der Energieverteilung.

Das Schaltanlagenkonzept ist als modulares Baukastensystem zur Umsetzung individueller Anforderungen konzipiert. Dabei ist das System unabhängig vom Hersteller der eingesetzten Schaltgeräte.

Bauartnachweis gemäß IEC 61439 mit vielen namhaften Herstellern von Leistungsschaltern.

Hohe Sicherheit nachgewiesen durch umfangreiche Prüfungen. Einfache Projektierung mittels Software „Rittal Power Engineering“.

3.2 Das ACB-Feld

Zum Schutz von Maschinen und Anlagen
Leistungsschalter schützen Maschinen, Anlagen und Personen vor Schäden in Folge von Kurzschluss, Erdschluss oder Überlast.

- VX25 Ri4Power ist passend für den Einsatz offener und kompakter Leistungsschalter aller namhaften Hersteller.
- Modulare Durchgängigkeit und hohe Fertigungsqualität garantieren einen außerordentlich zeitsparenden Aufbau.
- Bis 6300 A werden die Sammelschienen-systeme mit Standard-Kupferschienen bedarfsgerecht dimensioniert und individuell aufgebaut.
- Alle Zeichnungen der Verbindungssätze und Anschlusswinkel für den Anschluss von offenen Leistungsschaltern können mit der Software Rittal Power Engineering generiert werden, zur frühzeitigen Vorbereitung aller Kupferteile für die Montage.

3.3 Das Abgangsfeld

Zur Kombination von Schalt- und Steuerungsfunktionen

Im Abgangsfeld kann unter einem Dach vieles miteinander kombiniert werden, z. B. Energieverteilungen mit Steuerungen. Dazu werden innerhalb des Feldes einzelne, gegeneinander abgeschottete Funktionsräume eingerichtet.

- Jeder Funktionsraum wird mit VX25 Ri4Power Systembauteilen bedarfsgerecht konfiguriert und danach individuell bestückt, z. B. mit Schaltgeräten, Energieversorgungsabgängen oder Steuerungen.
- Das Verteil-Sammelschienen-System kann neben oder hinter den Funktionsräumen platziert werden und ist einfach und sicher an die Haupt-Schienen-Systeme über Systemkomponenten anschließbar.
- Das vollständig modular aufgebaute, feld- und funktionsraumübergreifende Schienensystem unterstützt durch seine kompromisslose Durchgängigkeit die herausragende Einfachheit von Planung und Montage sowie den hohen Grad an Individualisierungsmöglichkeiten. Werden, zur frühzeitigen Vorbereitung aller Kupferteile für die Montage.

EN

3.1 General

The VX25 Ri4Power switchgear system is designed for manufacturing low-voltage switchgear in the panel building, switchgear manufacturing and power distribution sectors.

The switchgear concept is designed as a modular system for implementing individual requirements. The system is independent of the manufacturer of the switchgear used.

Design certification to IEC 61439 with many well-known circuit-breaker brands.

Extensive testing ensures a high standard of safety. Simple project planning with the Rittal Power Engineering software package.

3.2 The ACB section

For protecting machinery and equipment

Air circuit-breakers protect machines, plant and people from damage and injury associated with short-circuits, earth faults and overloads.

- The VX25 Ri4Power is suitable for use with open and compact circuit-breakers from all well-known manufacturers.
- Modular continuity and a high manufacturing quality guarantee exceptionally time-saving assembly.
- Up to 6300 A, the busbar systems are dimensioned to your specific requirements with standard copper bars and individually configured.
- All drawings of connector kits and connection brackets for connecting air circuit-breakers may be generated and printed with the Rittal Power Engineering software so that all copper parts can be prepared for installation early in the process.

3.3 The outgoing section

To combine switching and control functions

In the outgoing section, many different components may be connected under one roof, such as power distributors with control units. To achieve this, individual compartments, shielded from one another, are created within the section.

- Each compartment is configured to suit your requirements with VX25 Ri4Power system components and then individually populated e.g. with switchgear, power supply outgoing feeders or control units.
- The busbar distribution system may be positioned adjacent to or behind the compartments and is easily and safely connected to the main busbar systems using system components.
- The fully modular busbar system can be used across all sections and compartments and is exceptionally straightforward to plan and install. It also offers extensive individualisation options with uncompromising consistency.

FR

3.1 Généralités

Les installations de distribution électronique VX25 Ri4Power sont prévues pour la réalisation de TGBT dans le domaine de la construction d'installations de commande et de distribution ainsi que de la distribution électrique.

Le concept d'installations de distribution électronique est conçu comme système de construction modulaire pour une mise en œuvre personnalisée en fonction des besoins. Le système est à cet égard indépendant du fabricant des disjoncteurs installés.

Attestation de type selon la norme CEI 61439 avec nombre de fabricants connus de disjoncteurs de puissance.

Sécurité élevée attestée par des vérifications complètes. Conception aisée à l'aide du logiciel « Rittal Power Engineering ».

3.2 La zone des disjoncteurs de puissance

Pour la protection des machines et des installations

Les disjoncteurs de puissance protègent les machines, les installations et les personnes des dommages occasionnés par un court-circuit, une mise à la masse ou une surcharge.

- Le système VX25 Ri4Power est adapté pour la mise en œuvre de disjoncteurs de puissance ouverts et compacts des principaux fabricants.
- Une modularité complète et une excellente qualité de la fabrication garantissent une construction particulièrement rapide.
- Les jeux de barres avec des barres de cuivre standard sont dimensionnés et personnalisés en fonction des besoins jusqu'à 6300 A.
- Tous les plans des kits de jonction et équerres de raccordement pour la connexion de disjoncteurs de puissance ouverts peuvent être générés avec le logiciel Rittal Power Engineering, pour la préparation anticipée du montage de toutes les pièces de cuivre.

3.3 La zone des départs

Pour associer les fonctions de commutation et de commande

Beaucoup de fonctions peuvent être associées dans la même cellule dans la zone des départs, p. ex. la distribution électrique avec des commandes. Des compartiments fonctionnels cloisonnés entre eux sont créés pour cela au sein de la cellule.

- Chaque compartiment fonctionnel est configuré en fonction des besoins avec des équipements universels VX25 Ri4Power puis équipé de manière personnalisée, p. ex. avec des disjoncteurs, des départs d'alimentation électrique ou des commandes.
- Le jeu de barres de distribution peut être placé à côté ou derrière les compartiments fonctionnels et être connecté simplement et en toute sécurité aux jeux de barres principaux via des composants standard.



3. Systembeschreibung VX25 Ri4Power

3. System description – VX25 Ri4Power

3. Description du système VX25 Ri4Power

DE

3.4 Die Form 2b

Zur Gewährleistung von optimalem Berührungsschutz

Die als innere Unterteilung ausgeführte Form 2b schottet den Sammelschienenraum gegenüber dem Funktionsraum und dem Anschlussraum ab.

- Sämtliche aktiven Teile werden gemäß IP 2X fingersicher abgedeckt.
- Bei Arbeiten im Funktionsraum oder im Anschlussraum schützt die modular aufgebaute, breitenflexible Abdeckung sicher vor dem Berühren der Sammelschienen.
- Außerdem bietet die Abschottung nach Form 2b auch Schutz für die Anlage – sie vermeidet das unerwünschte Eindringen von Fremdkörpern in den Sammelschienenraum.
- Komfortable Steck- und Klipstechnik ermöglicht die einfache, bohrungslose Montage aller Komponenten.

3.5 Das Koppelfeld

Zum Erhalt der Ausfallsicherheit

Das Koppelfeld ist die Kombination eines Leistungsschalterfeldes mit einer wahlweise links oder rechts anzuordnenden Sammelschienenhochführung.

- Einzelne Sammelschienenabschnitte können ohne Abschalten der Gesamtanlage spannungsfrei geschaltet werden. Das vermeidet Totalausfälle bei Störung oder Wartung und hält die Anlagenverfügbarkeit aufrecht, insbesondere bei Anlagen mit mehreren Einspeisungen.
- Die sichere Trennung der Sammelschienenabschnitte erfolgt bei VX25 Ri4Power durch umfangreiche, stabile Schottungen. Hohe Koppelfeld-Sicherheit ermöglicht eine Absenkung der Anforderungen an die Gesamt-Kurzschlussfestigkeit.
- Teile, Zubehör und durchzuführende Arbeitsschritte sind größtenteils die gleichen wie beim Aufbau des Leistungsschalterfeldes. Durch die System-Synergie ergibt sich eine deutliche Verkürzung der Montagezeit und großes Kosteneinsparungs-Potenzial.

EN

3.4 The Form 2b

To ensure optimum contact hazard protection

The Form 2b designed as internal separation shields the busbar compartment from the functional space and the connection space.

- All active parts are safe from finger-contact in line with IP 2X.
- When working in the functional space or connection space, the modular, width-flexible cover provides effective protection from contact with the busbars.
- Shielding to Form 2b also protects the equipment, by preventing the unwanted ingress of foreign bodies into the busbar compartment.
- Convenient plug-in and clip-in technology enables simple assembly of all components with no drilling required.

3.5 The coupling section

For maintaining fail-safe operation

The coupling section is a combination of an air circuit-breaker section with a busbar riser positioned optionally on the left or right.

- This allows individual busbar sections to be de-energised without switching off the entire system. This avoids total system failures during malfunctions or maintenance work, and maintains system availability, especially for systems with multiple power supplies.
- With the VX25 Ri4Power, comprehensive, stable partitioning allows busbar sections to be safely disconnected. The high safety standards of the coupling section permit less stringent requirements for overall short-circuit resistance.
- The parts, accessories and required work steps are largely the same as when assembling the circuit-breaker section. The system synergies mean that assembly time is significantly reduced, while also offering major cost-saving potential.

FR

- Grâce à leur continuité, les jeux de barres entièrement modulaires qui équipent l'ensemble des compartiments fonctionnels contribuent grandement à la simplicité de la conception et du montage ainsi qu'au grand nombre de possibilités de personnalisation.

3.4 La forme 2b

L'assurance d'une protection optimale contre les contacts

La forme 2b exécutée comme division interne cloisonne le compartiment de jeu de barres vis à vis du compartiment fonctionnel et de la zone de raccordement.

- Toutes les parties actives disposent d'un indice de protection IP 2X contre les contacts.
- Le recouvrement modulaire de largeur variable protège efficacement contre les contacts avec le jeu de barres lors des travaux dans le compartiment fonctionnel ou la zone de raccordement.
- Le cloisonnement selon la forme 2b assure également la protection de l'installation – il empêche la pénétration indésirable de corps étrangers dans le compartiment de jeu de barres.
- La technologie d'enfichage et d'encliquetage permet un montage aisé et sans perçage de tous les composants.

3.5 La zone de raccordement

Pour le maintien en exploitation

La zone de raccordement se compose d'une cellule avec disjoncteur de puissance associée à un jeu de barres vertical, positionné à droite ou à gauche de celui-ci.

- Différentes sections de jeux de barres peuvent être mises hors tension sans mise hors circuit de l'ensemble de l'installation. Cela évite les pannes complètes en cas de défaut ou d'entretien et assure le maintien de l'exploitation, en particulier les installations avec plusieurs alimentations.
- Le système VX25 Ri4Power permet la séparation fiable des sections de jeux de barres grâce à de multiples compartimentages fixes. La sécurité élevée de la zone de raccordement permet la réduction des exigences vis à vis de la résistance globale aux courts-circuits.
- Les pièces, accessoires et étapes de travail à effectuer sont majoritairement les mêmes que pour la construction d'une zone de disjoncteur de puissance. Une synergie judicieuse entraîne une nette réduction de la durée de montage et un potentiel élevé de réduction des coûts.



3. Systembeschreibung VX25 Ri4Power

3. System description – VX25 Ri4Power

3. Description du système VX25 Ri4Power

DE

3.6 Das Lastschaltleistenfeld

Zur sicheren Stromversorgung

Elektrische Energie durch sicherungsbehaftete Schaltgeräte möglichst kompakt und variabel verteilen – das ist die Aufgabe des Lastschaltleistenfeldes.

- Das modulare Schaltanlagen-System VX25 Ri4Power erlaubt eine schnelle, sichere und vollständige Einbauvorbereitung für Sicherungs-Lastschaltleisten Gr. 00 bis Gr. 3 der Fabrikate Jean Müller oder ABB/Siemens.
- Die Dimensionierung der Verteil-Sammelschienen wird entsprechend der Anforderung bedarfsgerecht und wirtschaftlich ausgeführt. Das Haupt- und das Verteil-Sammelschiensystem kann für eine Kurzschlussfestigkeit bis 100 kA für 1 Sek. konfiguriert werden.
- Die innere Unterteilung im Lastschaltleistenfeld wird je nach Kundenanforderung von Bauform 1 bis Bauform 4b durch die optionale Auswahl von Komponenten realisiert.

3.7 Das Kabelrangierfeld

Zur Verteilung von Kabeln und Leitungen

Das Kabelrangierfeld dient der Führung von Kabeln und Leitungen hin zu den Funktionsräumen.

- Mit dem umfangreichen VX25 Ri4Power Systemzubehör gestaltet sich der Ausbau besonders zeitsparend und flexibel.
- In Abhängigkeit des gewählten Haupt-Sammelschiensystems ist die Kabeleinführung wahlweise von unten, von oben oder von unten und oben möglich.
- Für das Dachblech stehen verschiedene Kabeleinführungsflansche zur Auswahl.

3.8 Das Verteilsammelschienenfeld

Zur vertikalen Führung von Sammelschienen

Das Verteilsammelschienenfeld dient der vertikalen Führung von Sammelschienen innerhalb eines Feldes z. B. zur Energieversorgung benachbarter Modulfelder.

- Umfangreichen Anschlussmaterial des VX25 Ri4Power Systems ermöglichen den schnellen und einfachen Anschluss verschiedenster Leitermaterialien.
- Sehr schmale Baubreite von nur 400 mm möglich.
- Unter Beibehaltung der Sammelschienenpositionen von Haupt- und Verteilsammelschiene.

3.9 Das Hochführungsfeld

Zur Positionsänderung des Hauptsammelschiensystems

Das Hochführungsfeld dient der Änderung der Position des Hauptsammelschiensystems von Dachbereich auf Rückbereich und umgekehrt.

- Funktionale Schienenhalter sorgen für einfache und schnelle Montage.
- Einsatz von Standardkupferschienen reduzieren die Kosten maßgeblich.
- Das VX25 Ri4Power Systemzubehör steht auch hier vollumfänglich zur Verfügung.

EN

3.6 The fuse-switch disconnection section

For a reliable power supply

Distributing electrical energy as compactly as possible with maximum variability using fused switchgear – that is the task of the fuse-switch disconnector section.

- The VX25 Ri4Power modular switchgear system is fully prepared for fast, safe installation of fuse-switch disconnectors, sizes 00 to 3, from Jean Müller or ABB/Siemens.
- The distribution busbars are economically dimensioned to meet the individual requirements. The main and distribution busbar systems can be configured for a short-circuit rating of up to 100 kA for 1 sec.
- Form 1 to Form 4b internal sub-division in the fuse-switch disconnector section, depending on customer requirements, is achieved via the optional selection of components.

3.7 The cable chamber

For distributing cables and lines

The cable chamber is used for routing cables and lines to the compartments.

- The extensive range of VX25 Ri4Power system accessories ensures exceptionally time-saving and flexible configuration.
- Depending on the main busbar system chosen, cable entry may be either from below, above, or below and above.
- Choose from a range of cable entry glands for the roof plate.

3.8 The distribution busbar section

For vertical routing of busbars

The distribution busbar section is used for the vertical routing of busbars within a section, e.g. for supplying power to adjacent modular panels.

- With its extensive range of connection parts, the VX25 Ri4Power System supports the quick and easy connection of many different conductor materials.
- A very narrow construction width of just 400 mm is supported.
- The busbar positions of the main and distribution busbars are maintained.

3.9 The riser section

For changing the position of the main busbar system

The riser section is used to relocate the position of the main busbar system from the roof to the rear, and vice versa.

- Simple, fast assembly with functional bar supports.
- Standard copper busbars are used for significantly reduced costs.
- The full range of VX25 Ri4Power system accessories is also available.

FR

3.6 La zone de coupe-circuits

Pour une alimentation électrique en toute sécurité

Répartition compacte et variable de l'alimentation électrique par des disjoncteurs à fusibles – c'est la mission de la zone de coupe-circuits.

- Le système VX25 Ri4Power permet une intégration rapide, complète et en toute sécurité des coupe-circuits à fusible taille 00 à 3 des fabricants Jean Müller ou ABB/Siemens.
- Le dimensionnement des jeux de barres de distribution est réalisé en fonction des besoins et de manière économique. Les jeux de barres principaux et de distribution peuvent être configurés pour une résistance aux courts-circuits jusqu'à 100 kA pour 1 sec.
- Le compartimentage intérieur de la zone de coupe-circuits est exécuté en fonction des besoins du client, des formes 1 à 4b, à l'aide des accessoires nécessaires.

3.7 La zone de rangement de câbles

Pour la répartition des câbles

La zone de rangement de câbles sert au guidage des câbles en direction des compartiments fonctionnels.

- Les multiples accessoires VX25 Ri4Power permettent une intégration particulièrement rapide et flexible.
- L'introduction des câbles se fait par le haut, par le bas ou les deux, en fonction de la configuration du système de jeux de barres principal.
- Différentes plaques passe-câbles sont proposées pour un passage par le toit.

3.8 La zone des jeux de barres de distribution

Pour le guidage vertical des jeux de barres

La zone des jeux de barres de distribution permet le cheminement vertical de jeu de barres à l'intérieur d'une cellule par exemple pour l'alimentation d'une cellule modulaire voisine.

- Le matériel de raccordement complet du système VX25 Ri4Power permet le raccordement rapide et aisé de divers matériaux conducteurs.
- Largeur de construction très étroite de seulement 400 mm possible.
- Tout en gardant les positions des jeux de barres principaux et de distribution.

3.9 La zone de cheminement vertical

Pour modifier la position des jeux de barres principaux

La zone de cheminement vertical permet de passer le jeu de barres principal de la zone de toit à la zone arrière et inversement.

- Des supports de barre fonctionnels assurent un montage aisé et rapide.
- L'utilisation de barres de cuivre standard réduit sensiblement les coûts.
- La vaste gamme des accessoires VX25 Ri4Power est à votre disposition.



3. Systembeschreibung VX25 Ri4Power

3. System description – VX25 Ri4Power

3. Systembeschreibung VX25 Ri4Power

DE

3.10 Das Eckfeld

Zur rechtwinkligen Umlenkung des Hauptsammelschienensystems

Das Eckfeld ermöglicht damit den rechtwinkligen Aufbau einer VX25 Ri4Power Schaltanlage.

- Ideal zur maximalen Ausnutzung des vorhandenen Aufstellungsplatzes der Schaltanlage.
- Durch konsequente Fortsetzung der VX25 Ri4Power Systemvorteile auch hier signifikante Zeit- und Materialeinsparung.
- Ausführung als Innen- und Außenecke möglich.

3.11 Das Leerfeld

Zum Einbau von Reserven

Das Leerfeld enthält lediglich das Hauptsammelschienensystem für Dach- bzw. Rückbereich und dient dem nachträglichen Einbau von Komponenten.

- Schrankbreiten von 400 mm bis 1200 mm möglich.
- Alle VX25 Ri4Power Systemvorteile nutzbar.

EN

3.10 The corner section

For right-angled deflection of the main busbar system

The corner section allows you to create a right-angled VX25 Ri4Power switchgear assembly.

- Ideal for maximising the existing switchgear installation space.
- Consistent continuation of the system benefits associated with the VX25 Ri4Power system also translates into significant time and material savings.
- May be designed as an internal or external corner

3.11 The empty panel

To accommodate reserves

The empty panel only contains the main busbar system for the roof or rear section and is used for the retrospective installation of components.

- Supports enclosure widths ranging from 400 to 1200 mm.
- The full range of VX25 Ri4Power system benefits are available to use.

FR

3.10 La zone d'angle

Pour la déviation perpendiculaire du jeu de barres principal

La zone d'angle permet ainsi la construction perpendiculaire d'un TGBT VX25 Ri4Power.

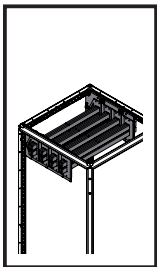
- Idéal pour l'exploitation maximale de l'espace disponible dans une installation électrique.
- La cohérence du système VX25 Ri4Power vous permettra d'économiser du temps et du matériel.
- Construction possible en angle intérieur ou extérieur.

3.11 La zone vide

Pour l'intégration de réserves

La zone vide contient uniquement le jeu de barres principal positionné sous le toit ou dans la partie arrière et sert à intégrer ultérieurement des composants.

- Largeurs d'armoire de 400 mm à 1200 mm possibles.
- Tous les avantages du système VX25 Ri4Power peuvent être exploités.

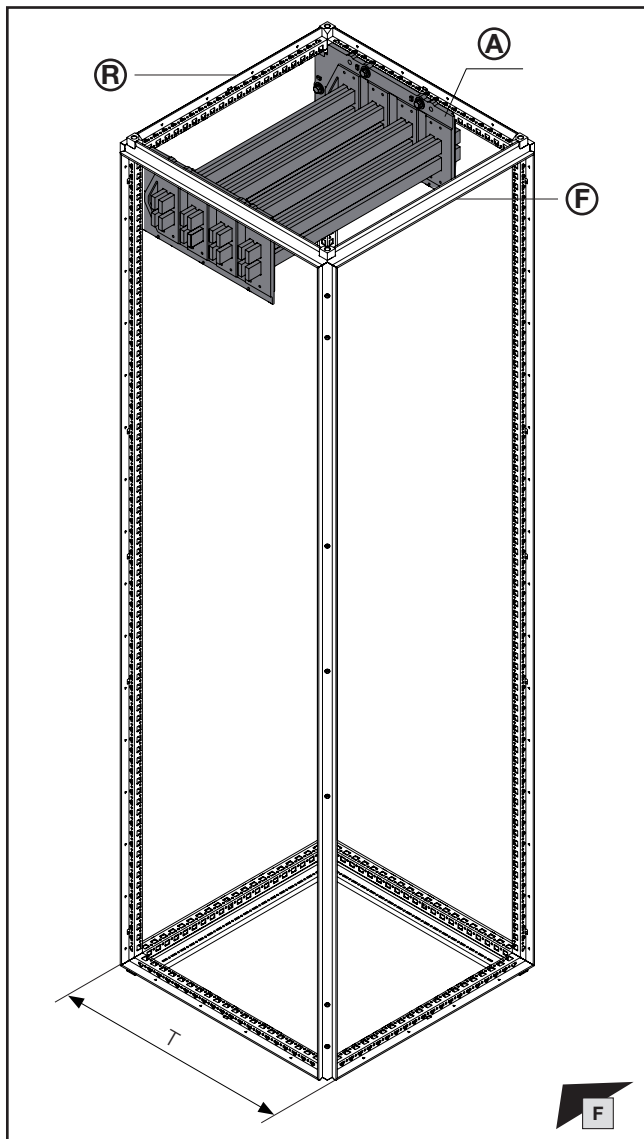


4. Montage Hauptsammelschienensystem

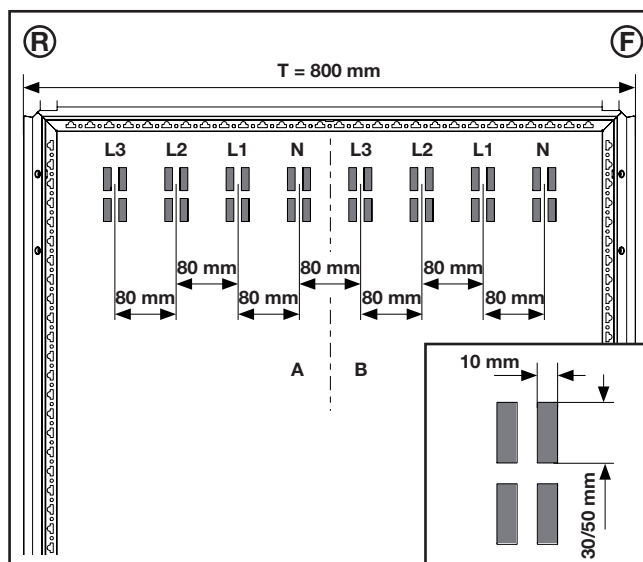
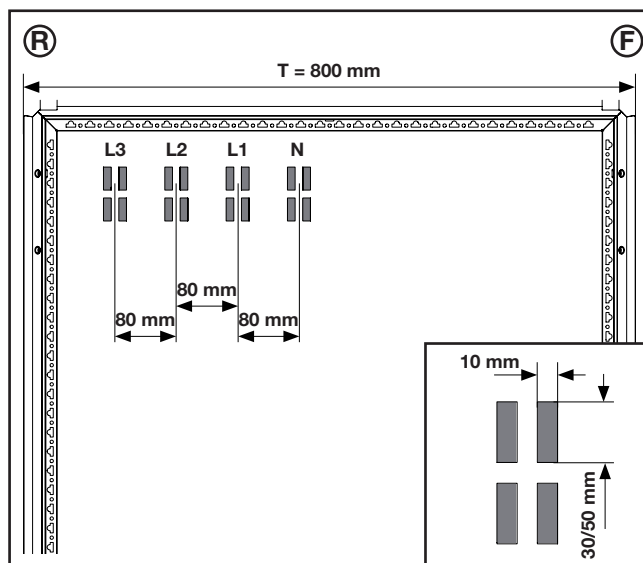
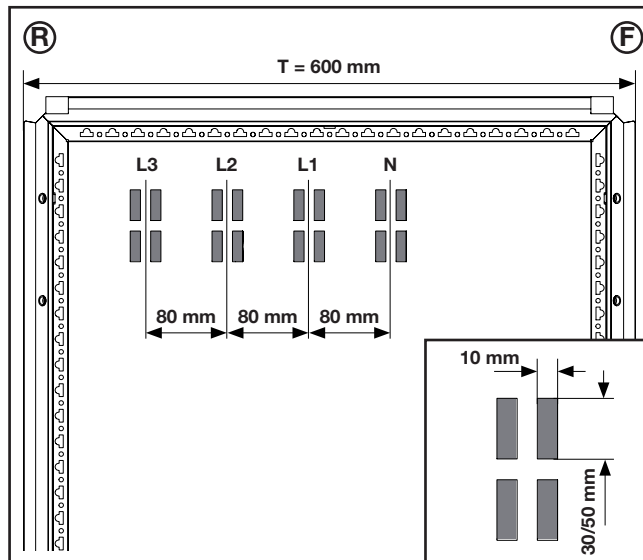
4. Assembling the main busbar system

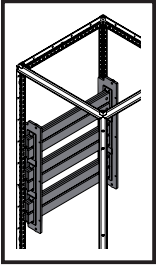
4. Montage des jeux de barres principaux

- 4.1 Aufbauvarianten Dachbereich
4.1 Assembly variants – Roof section
4.1 Variantes de montage sous le toit



Sammelschiene Abmessung mm Busbar dimensions mm Dimensions de la barre mm	Anreihung Baying Juxtaposition	Best.-Nr. Model No. Référence
30x10	X	9686.000
30x10	–	9686.010
50x10	X	9686.030
50x10	–	9686.040



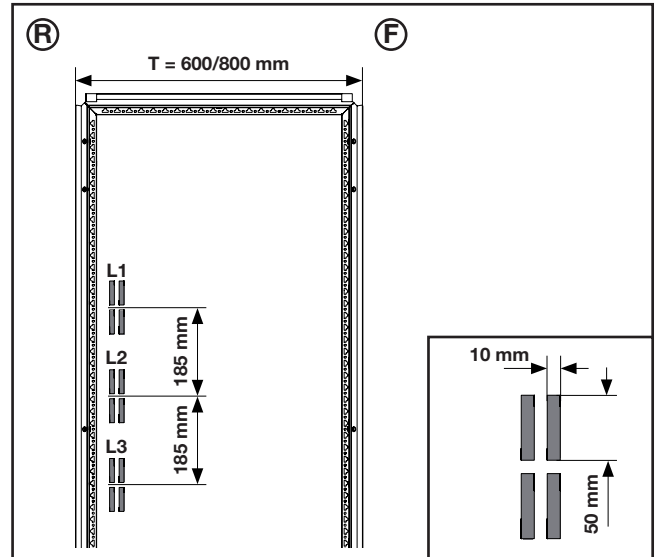
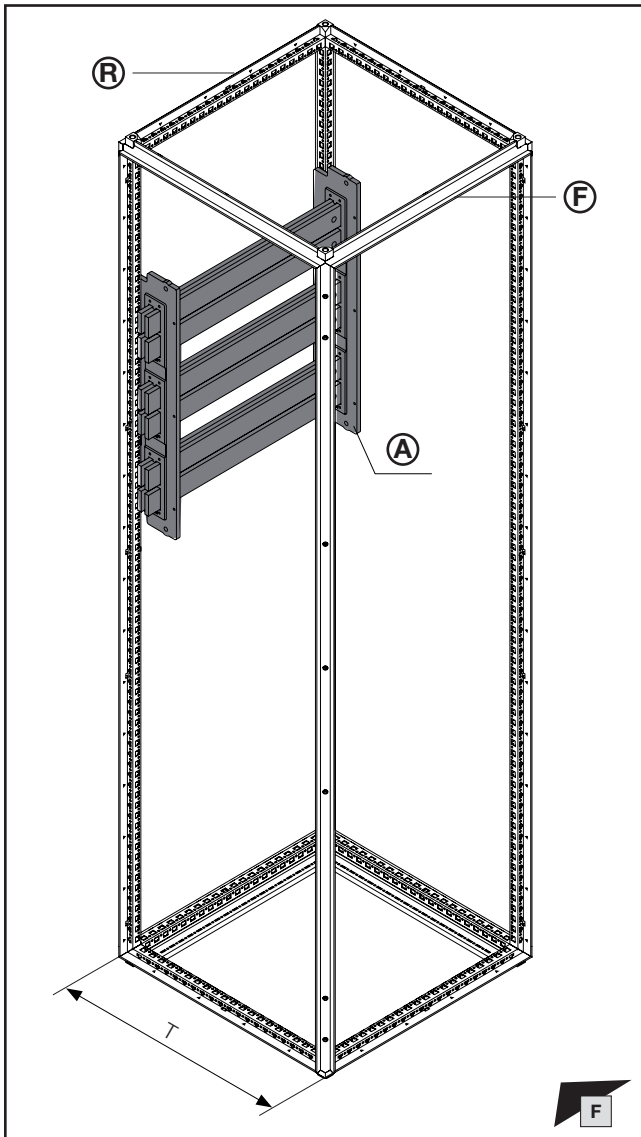


4. Montage Hauptsammelschienensystem

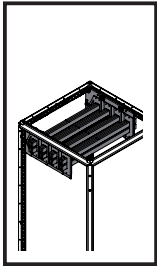
4. Assembling the main busbar system

4. Montage des jeux de barres principaux

- 4.2 Aufbauvarianten Rückbereich
4.2 Assembly variants – Rear section
4.2 Variantes de montage dans la partie arrière



Sammelschiene Abmessung mm Busbar dimensions mm Dimensions de la barre mm	Anreihung Baying Juxtaposition	 Best.-Nr. Model No. Référence
50x10	X	9686.060
50x10	–	9686.070

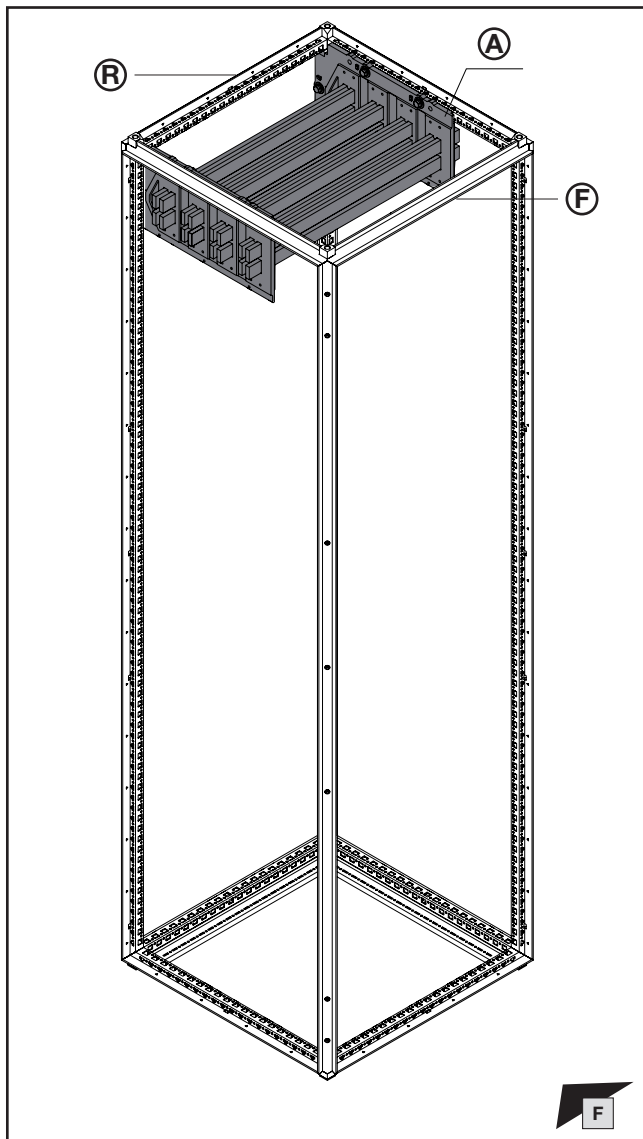


4. Montage Hauptsammelschienensystem

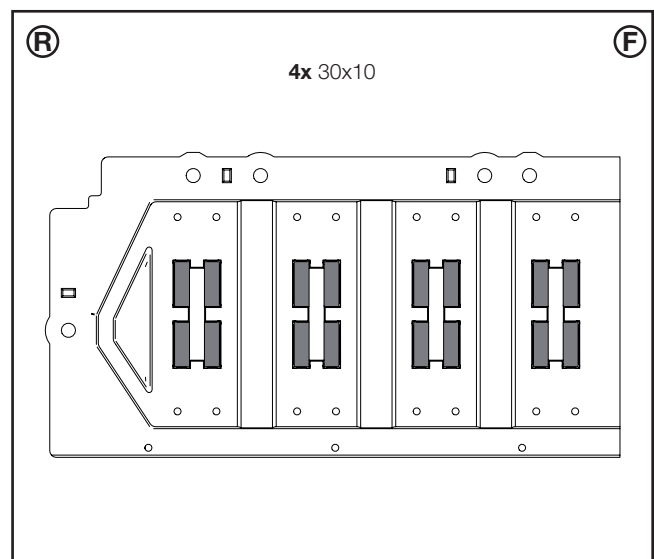
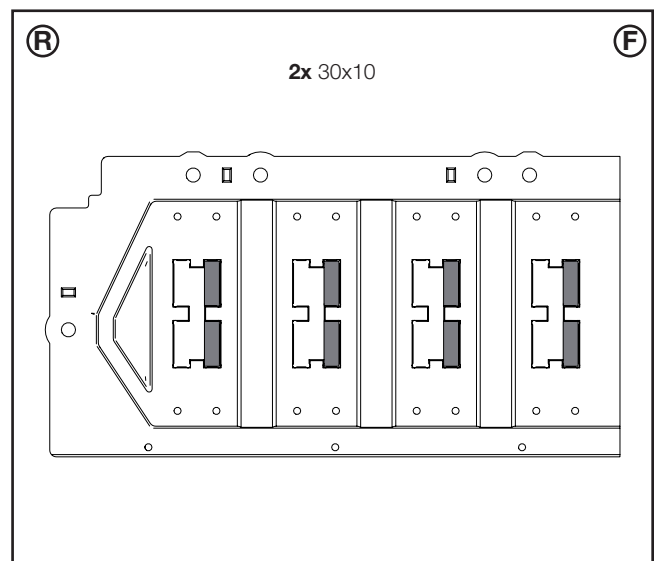
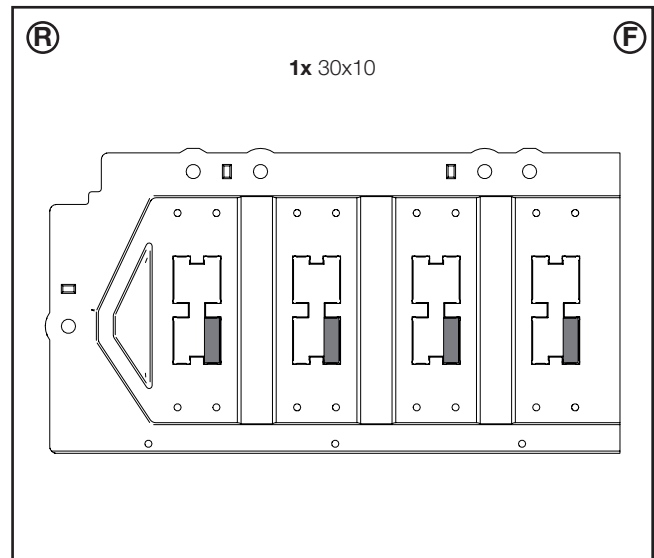
4. Assembling the main busbar system

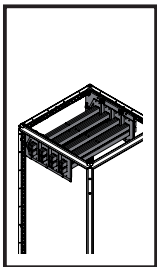
4. Montage des jeux de barres principaux

- 4.3 Bestückung Sammelschienenhalter 30x10 Dachbereich
 4.3 Configuring the busbar support, 30x10 – Roof section
 4.3 Équipement du support de jeux de barres 30x10 sous le toit



Sammelschiene Abmessung mm Busbar dimensions mm Dimensions de la barre mm	Anreihung Baying Juxtaposition	A Best.-Nr. Model No. Référence
30x10	X	9686.000
30x10	–	9686.010



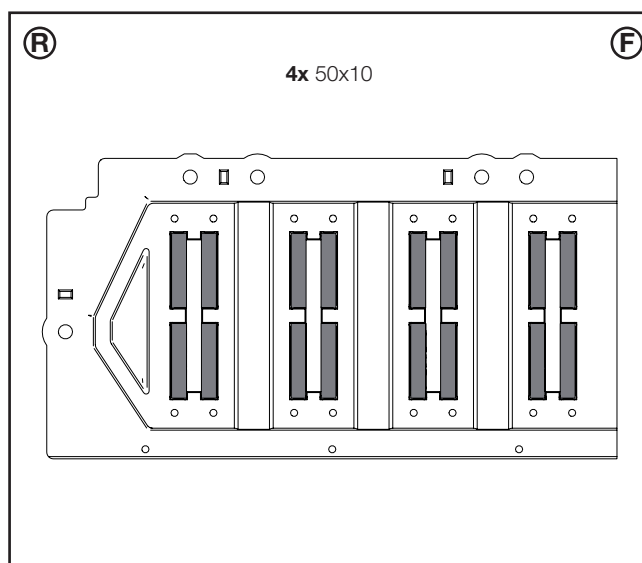
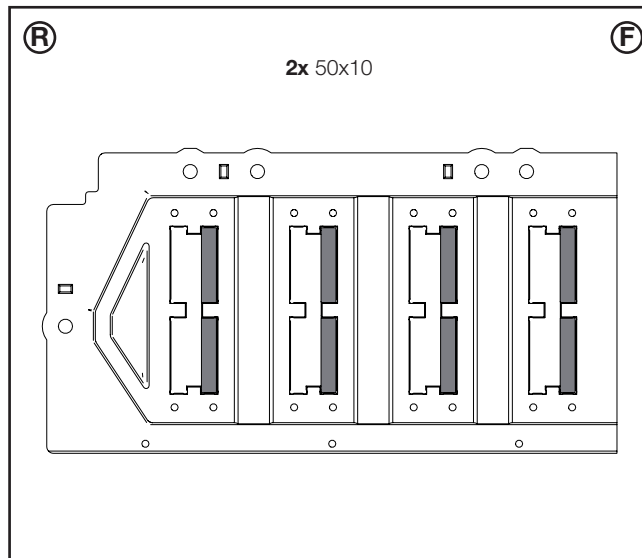
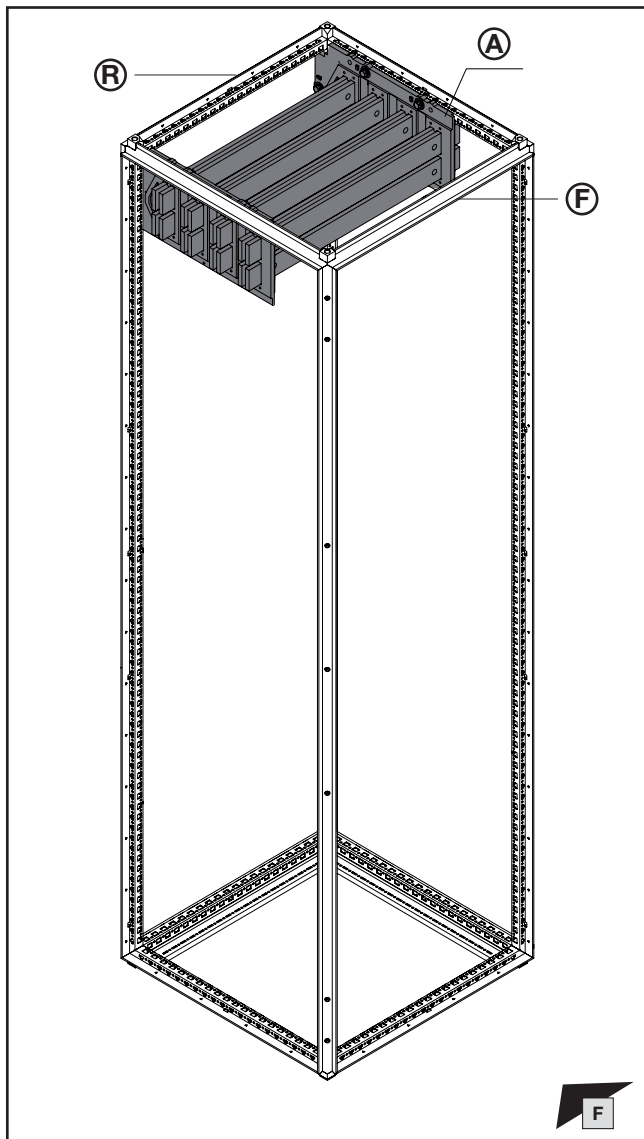


4. Montage Hauptsammelschienensystem

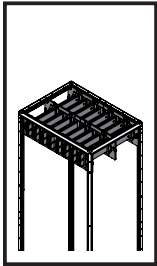
4. Assembling the main busbar system

4. Montage des jeux de barres principaux

- 4.4 Bestückung Sammelschienenhalter 50x10 Dachbereich – System A
- 4.4 Configuring the busbar support, 50x10 – Roof section – System A
- 4.4 Équipement du support de jeux de barres 50x10 sous le toit – Système A



Sammelschiene Abmessung mm Busbar dimensions mm Dimensions de la barre mm	Anreihung Baying Juxtaposition	 Best.-Nr. Model No. Référence
50x10	X	9686.030
50x10	–	9686.040

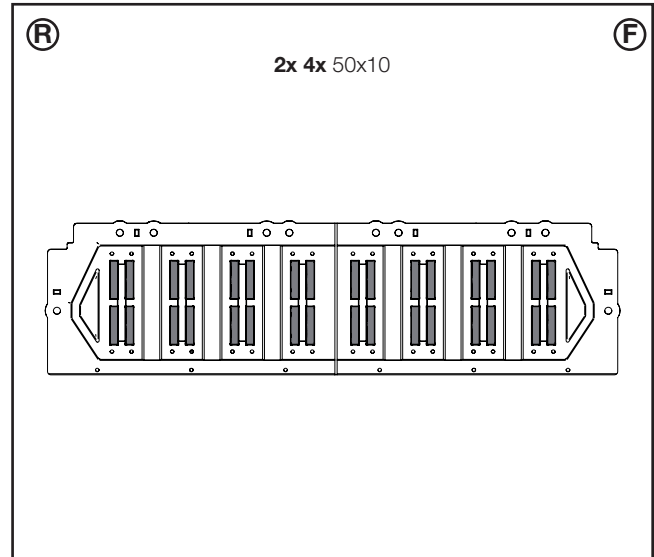
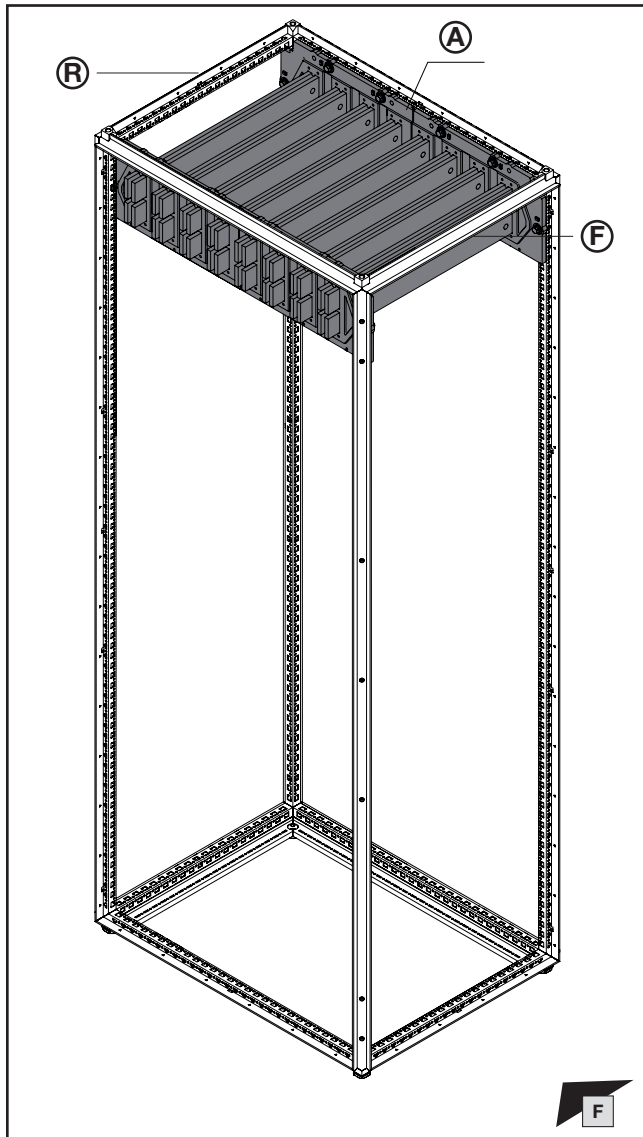


4. Montage Hauptsammelschienensystem

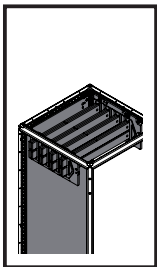
4. Assembling the main busbar system

4. Montage des jeux de barres principaux

- 4.5 Bestückung Sammelschienenhalter 50x10 Dachbereich – System A und B
- 4.5 Configuring the busbar support, 50x10 – Roof section – System A and B
- 4.5 Équipement du support de jeux de barres 50x10 sous le toit – Système A et B



Sammelschiene Abmessung mm Busbar dimensions mm Dimensions de la barre mm	Anreihung Baying Juxtaposition	A Best.-Nr. Model No. Référence
50x10	X	9686.030
50x10	–	9686.040

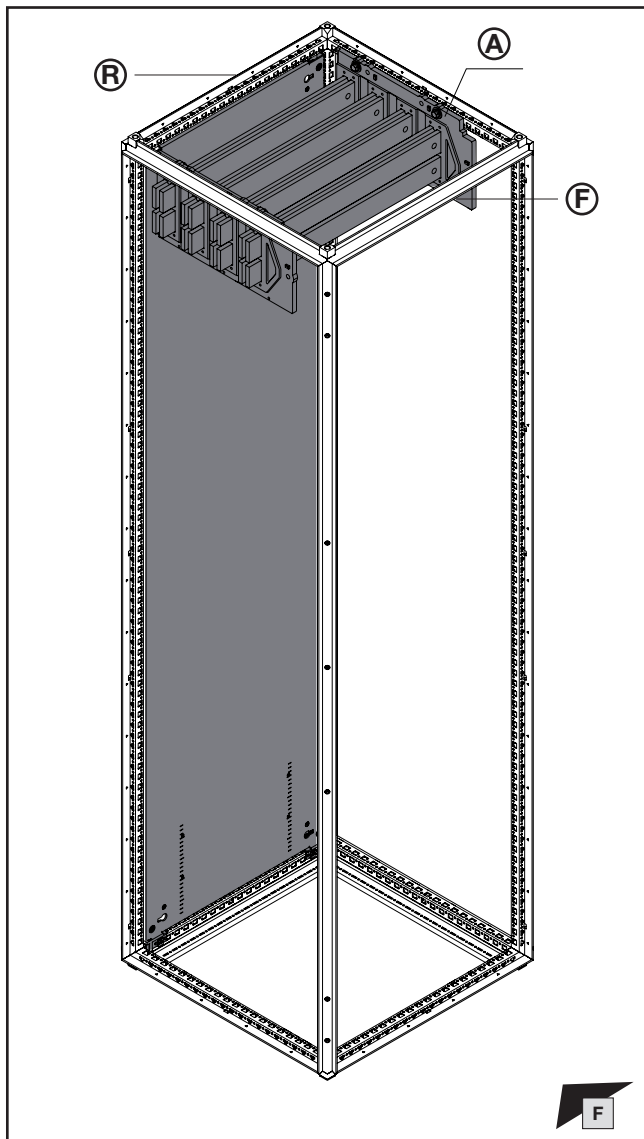


4. Montage Hauptsammelschienensystem

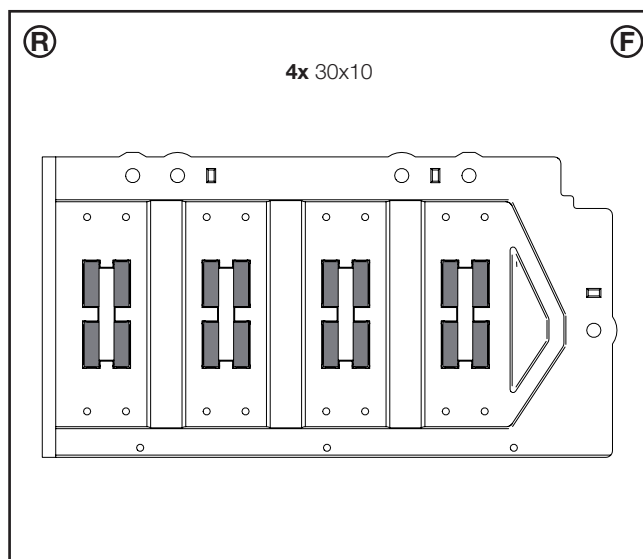
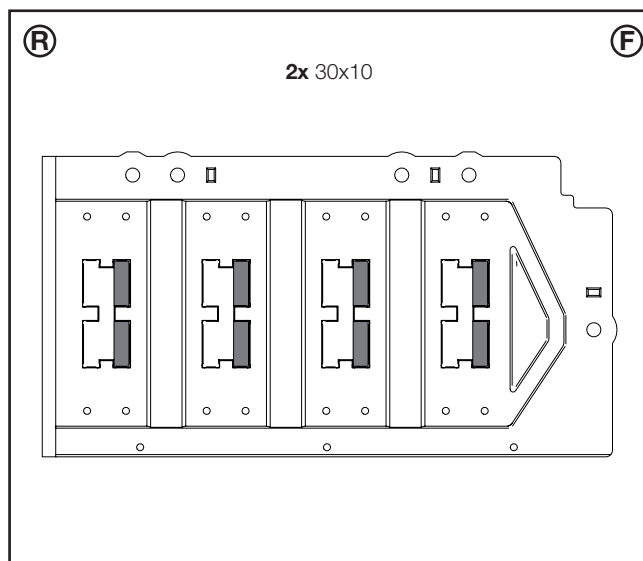
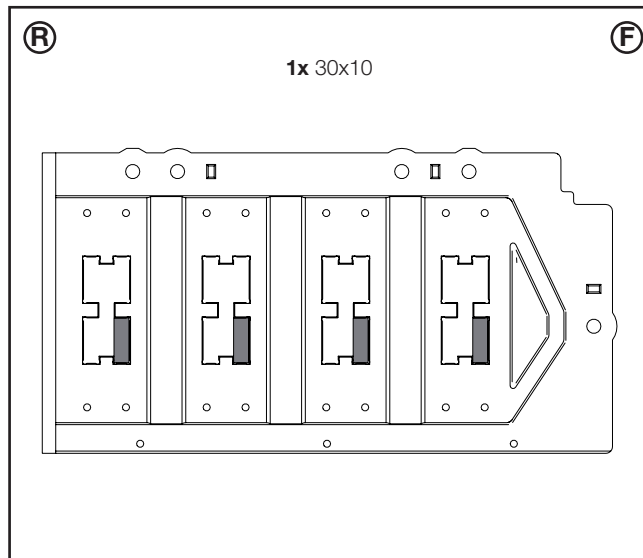
4. Assembling the main busbar system

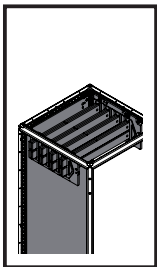
4. Montage des jeux de barres principaux

- 4.6 Bestückung Sammelschienenhalter 30x10 Dachbereich mit Montageplatte VX25 (Position: ± 0 mm)
- 4.6 Configuring the busbar support 30x10, roof section, with mounting plate VX25 (position: ± 0 mm)
- 4.6 Équipement du support de jeux de barres 30x10 sous le toit avec plaque de montage VX25 (position : ± 0 mm)



Sammelschiene Abmessung mm Busbar dimensions mm Dimensions de la barre mm	Anreihung Baying Juxtaposition	A Best.-Nr. Model No. Référence
30x10	X	9686.000
30x10	–	9686.010



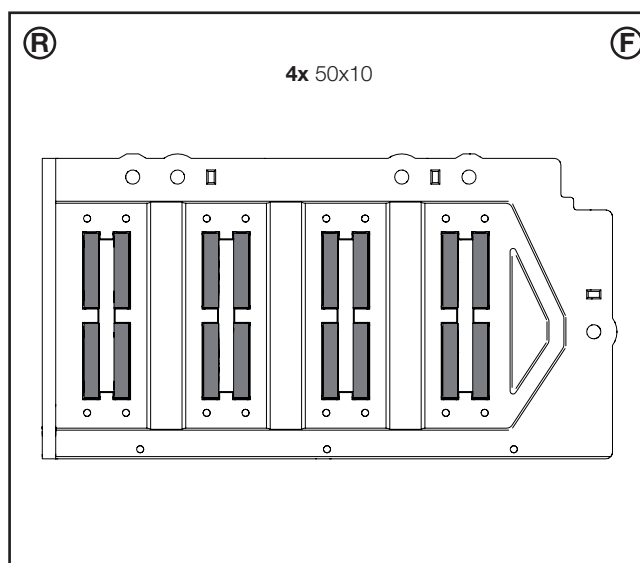
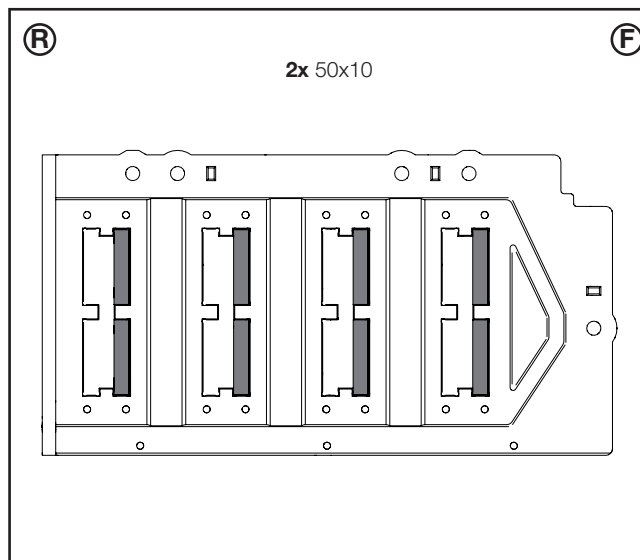
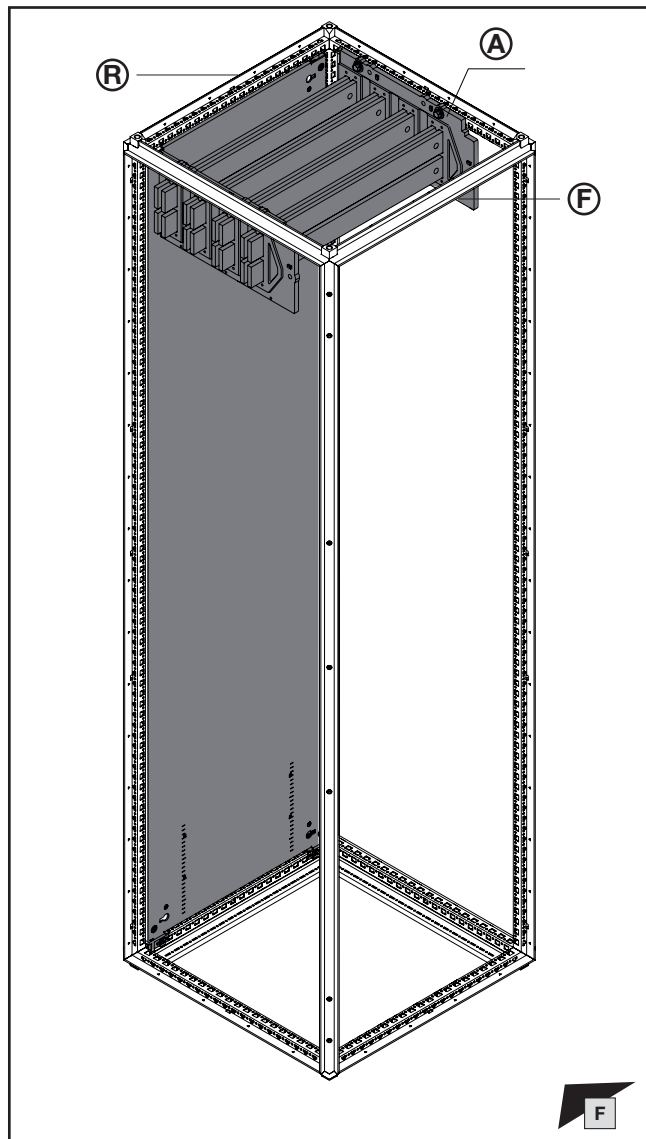


4. Montage Hauptsammelschienensystem

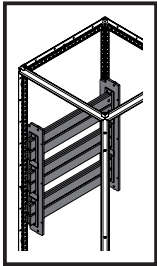
4. Assembling the main busbar system

4. Montage des jeux de barres principaux

- 4.7 Bestückung Sammelschienenhalter 50x10 Dachbereich mit Montageplatte VX25 (Position: ± 0 mm)
- 4.7 Configuring the busbar support 50x10, roof section, with mounting plate VX25 (position: ± 0 mm)
- 4.7 Équipement du support de jeux de barres 50x10 sous le toit avec plaque de montage VX25 (position : ± 0 mm)



Sammelschiene Abmessung mm Busbar dimensions mm Dimensions de la barre mm	Anreihung Baying Juxtaposition	 Best.-Nr. Model No. Référence
50x10	X	9686.030
50x10	–	9686.040

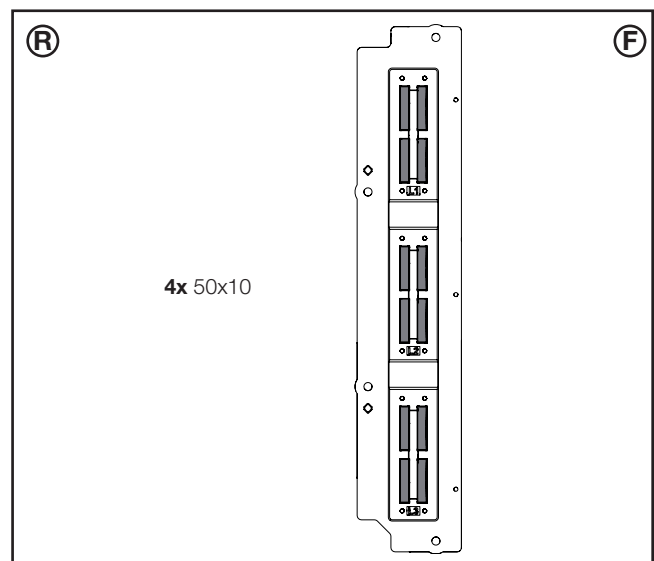
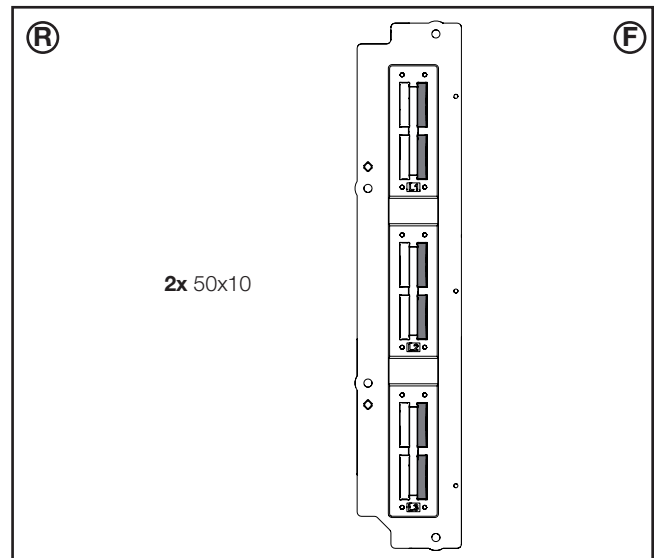
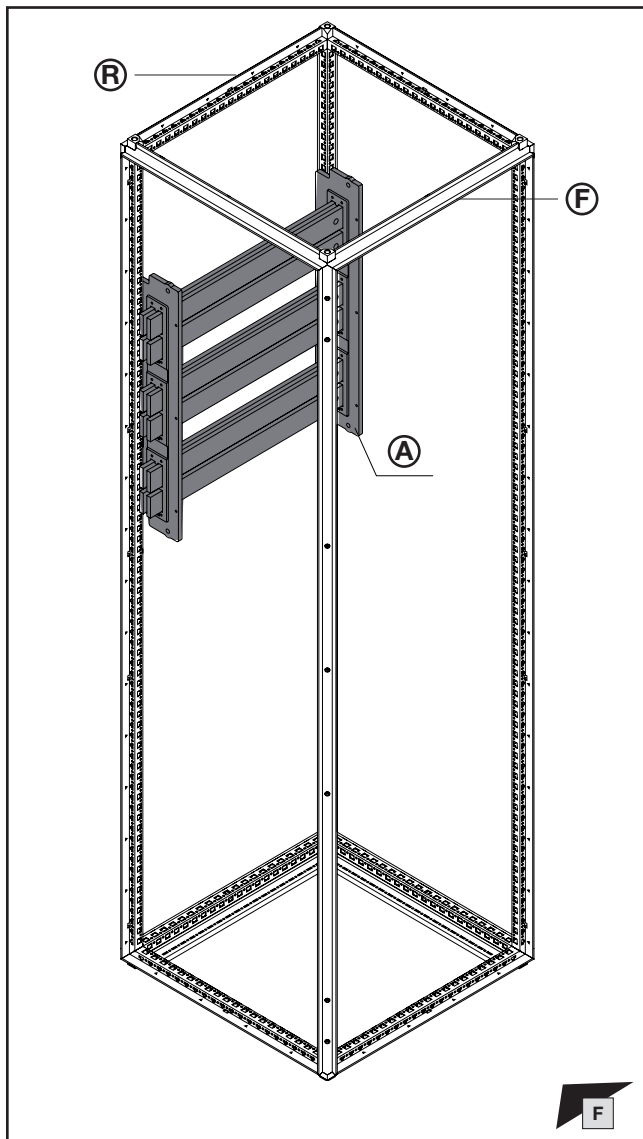


4. Montage Hauptsammelschienensystem

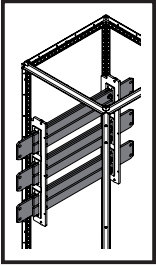
4. Assembling the main busbar system

4. Montage des jeux de barres principaux

- 4.8 Bestückung Sammelschienehalter 50x10 Rückbereich
 4.8 Configuring the busbar support, 50x10 – Rear section
 4.8 Équipement du support de jeux de barres 50x10 dans la partie arrière



Sammelschiene Abmessung mm Busbar dimensions mm Dimensions de la barre mm	Anreihung Baying Juxtaposition	A Best.-Nr. Model No. Référence
50x10	X	9686.060
50x10	–	9686.070

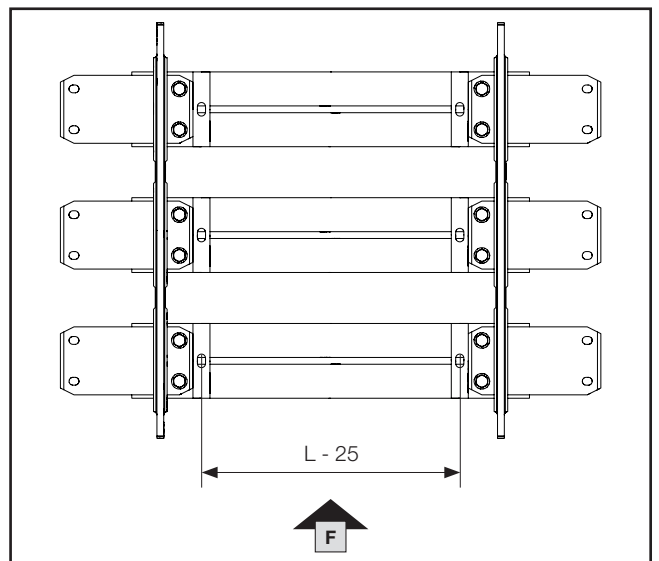
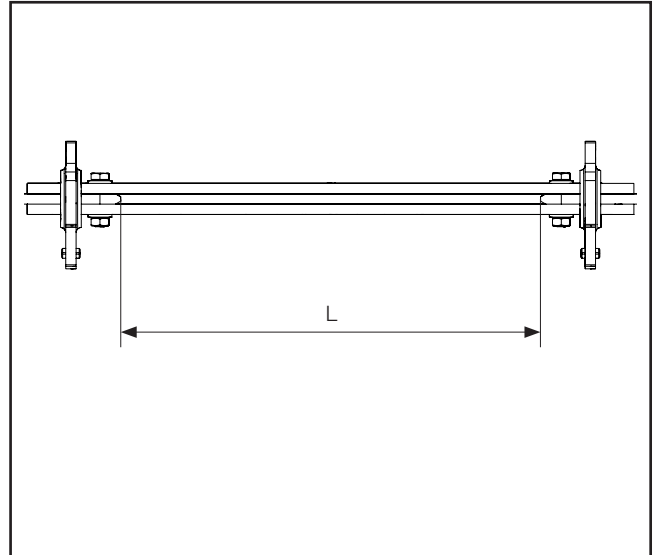
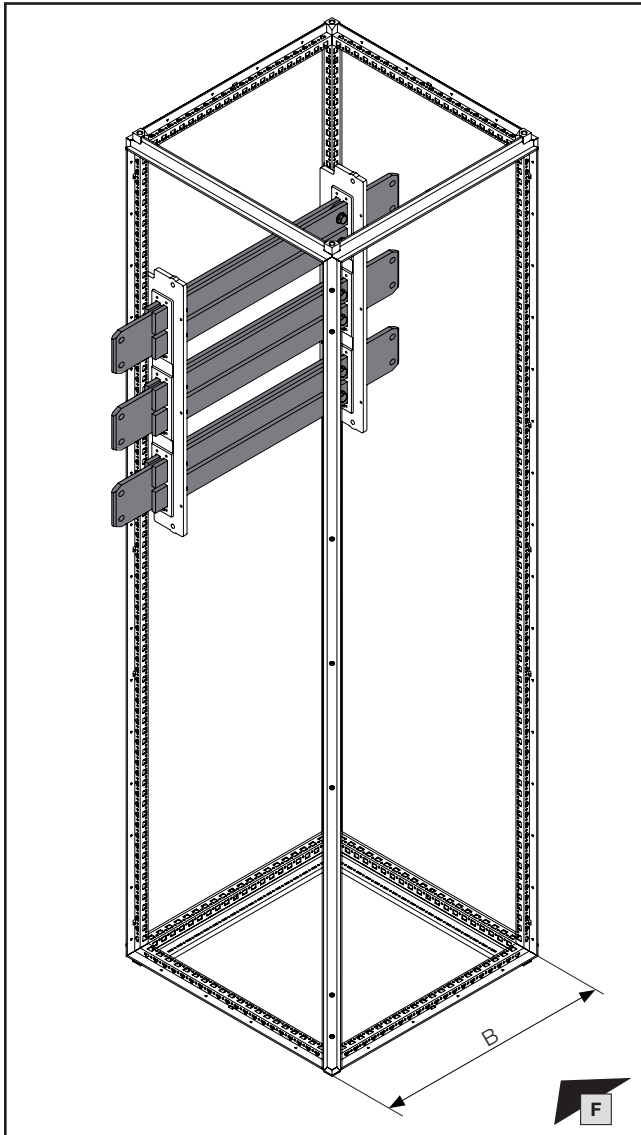


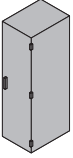
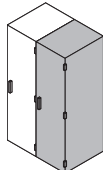
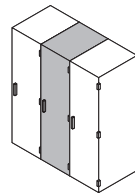
4. Montage Hauptsammelschienensystem

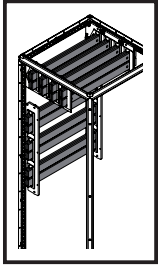
4. Assembling the main busbar system

4. Montage des jeux de barres principaux

- 4.9 Verfügbarer Klemm- und Anschlussraum Rückbereich
4.9 Available terminal and connection space – Rear section
4.9 Zone de serrage et de raccordement disponible dans la partie arrière



Einzelsschrank Stand-alone enclosure Armoire isolée	Endsschrank End-of-row enclosure Armoire d'extrémité de rangée	Durchgangsschrank Middle-of-row enclosure Armoire juxtaposée par ses deux côtés
		
$L = B - 159 \text{ mm}$	$L = B - 177 \text{ mm}$	$L = B - 195 \text{ mm}$



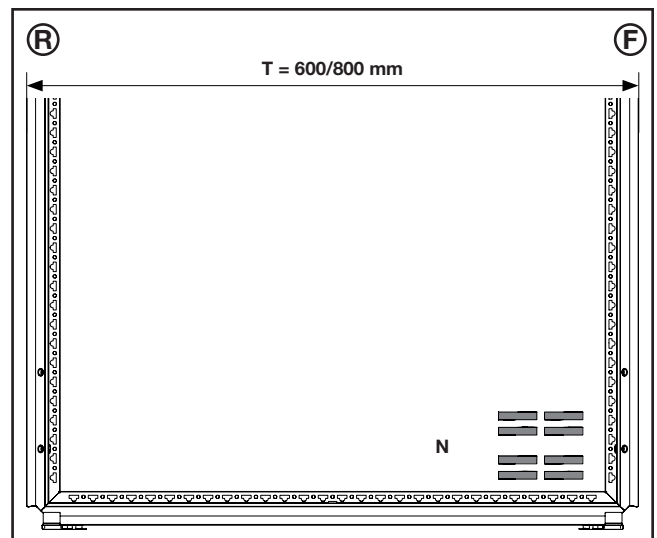
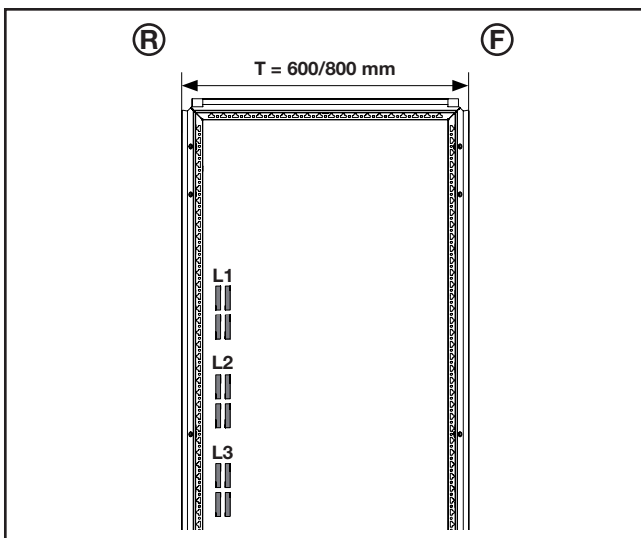
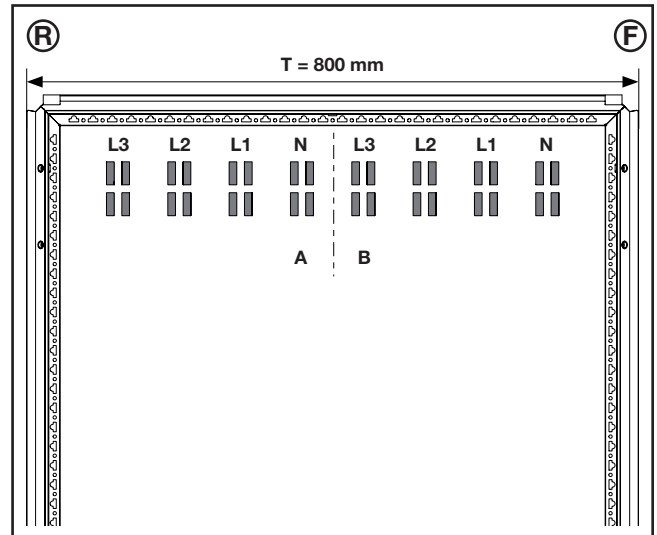
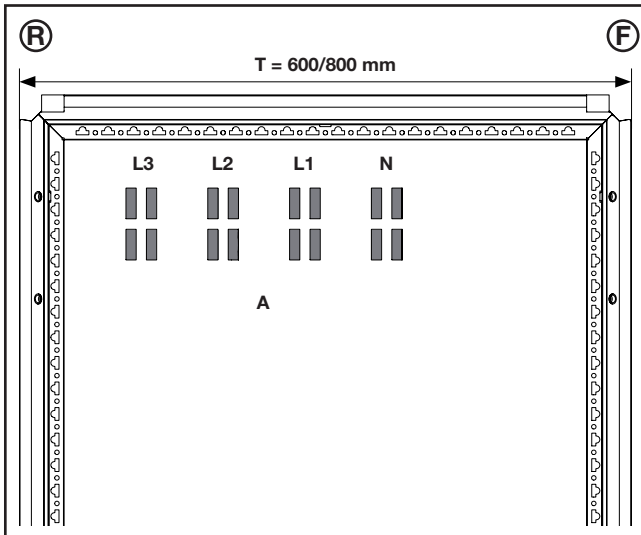
4. Montage Hauptsammelschienensystem

4. Assembling the main busbar system

4. Montage des jeux de barres principaux

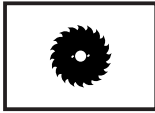
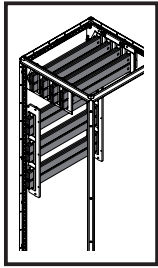


- 4.10 Auswahl E-Cu Sammelschienen L1, L2, L3 und N
 4.10 Selecting the E-Cu busbars L1, L2, L3 and N
 4.10 Sélection des jeux de barres E-Cu L1, L2, L3 et N



Schrankbreite Enclosure width Largeur d'armoire	400	600	800	1000	1200
50 x 10	9684.004	9684.006	9684.008	9684.010	9684.012
30 x 10	3586.005				





4. Montage Hauptsammelschienensystem

4. Assembling the main busbar system

4. Montage des jeux de barres principaux



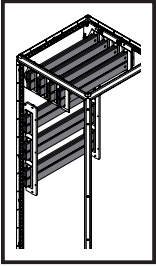
4.11 Abmessungen E-Cu Sammelschienen L1, L2, L3 und N für alle drei Schrankvarianten

4.11 Dimensions of the E-Cu busbars L1, L2, L3 and N to length for all three enclosure variants

4.11 Dimension des jeux de barres E-Cu L1, L2, L3 et N pour les trois variantes d'armoire

Sammelschienenbreite 50 mm Busbar width 50 mm Largeur de barre 50 mm		
9684.004, 9684.006, 9684.008, 9684.010, 9684.012		
Einzelschrank Stand-alone enclosure Armoire isolée	Endschrank End-of-row enclosure Armoire d'extrémité de rangée	Durchgangsschrank Middle-of-row enclosure Armoire juxtaposée par ses deux côtés

Sammelschienenbreite 50 mm Busbar width 50 mm Largeur de barre 50 mm		Sammelschienenbreite 30 mm Busbar width 30 mm Largeur de barre 30 mm
3588.005		3586.005
Einzelschrank Stand-alone enclosure Armoire isolée	Endschrank End-of-row enclosure Armoire d'extrémité de rangée	Durchgangsschrank Middle-of-row enclosure Armoire juxtaposée par ses deux côtés
$L = B - 80 \text{ mm}$	$L = B - 47,5 \text{ mm}$	$L = B - 15 \text{ mm}$



4. Montage Hauptsammelschienensystem

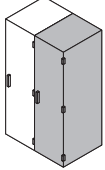
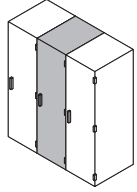
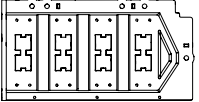
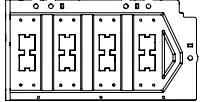
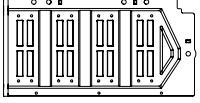
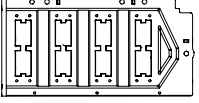
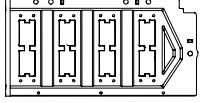
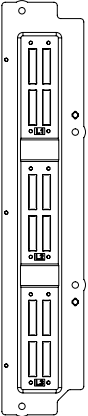
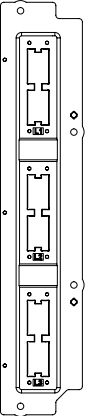
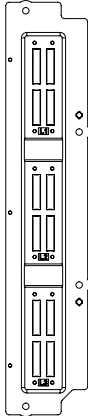
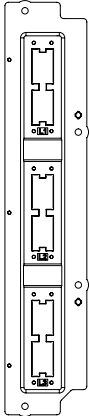
4. Assembling the main busbar system

4. Montage des jeux de barres principaux

4.12 Auswahl Sammelschienenhalter

4.12 Selecting the busbar supports

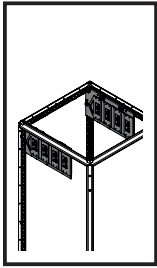
4.12 Sélection des supports de jeux de barres

	Einzelschrank Stand-alone enclosure Armoire isolée	Endschrank End-of-row enclosure Armoire d'extrémité de rangée	Durchgangsschrank Middle-of-row enclosure Armoire juxtaposée par ses deux côtés
			
30x10	 2x 9686.010	 1x 9686.000	 1x 9686.010
50x10	 2x 9686.040 A	 1x 9686.030 A	 1x 9686.040 A
50x10	 2x 9686.070	 1x 9686.060	 1x 9686.070
			 2x 9686.060



Hinweis / Note / Remarque **A**

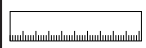
Für System A und System B wird die doppelte Anzahl Sammelschienenhalter benötigt.
For system A and system B double the number of busbar supports is required.
Pour le système A et le système B, il faut doubler le nombre des supports de jeux de barres



SW13



mm



DE EN FR

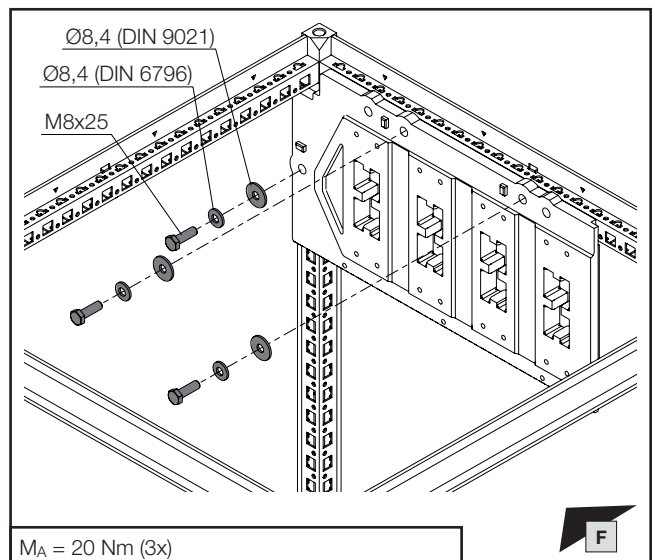
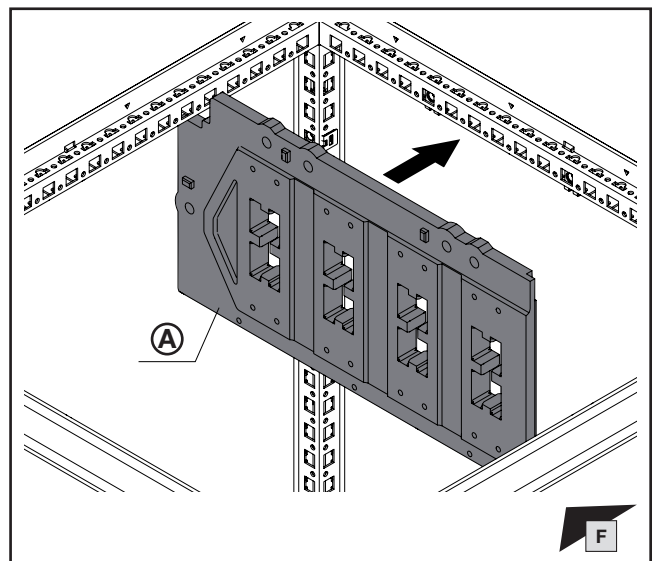
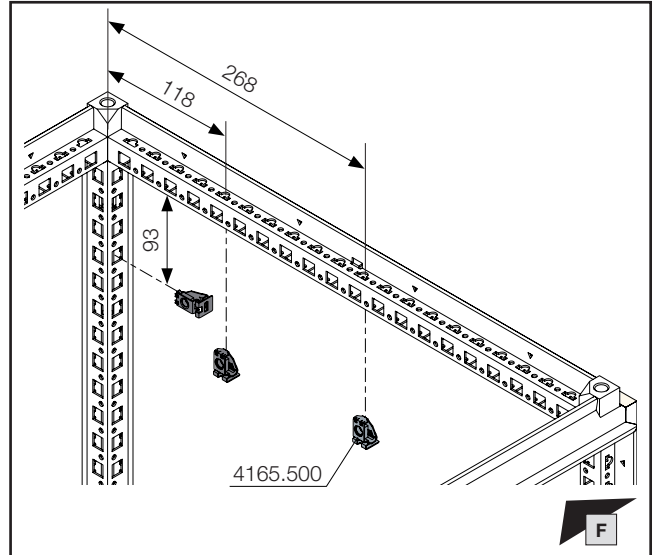
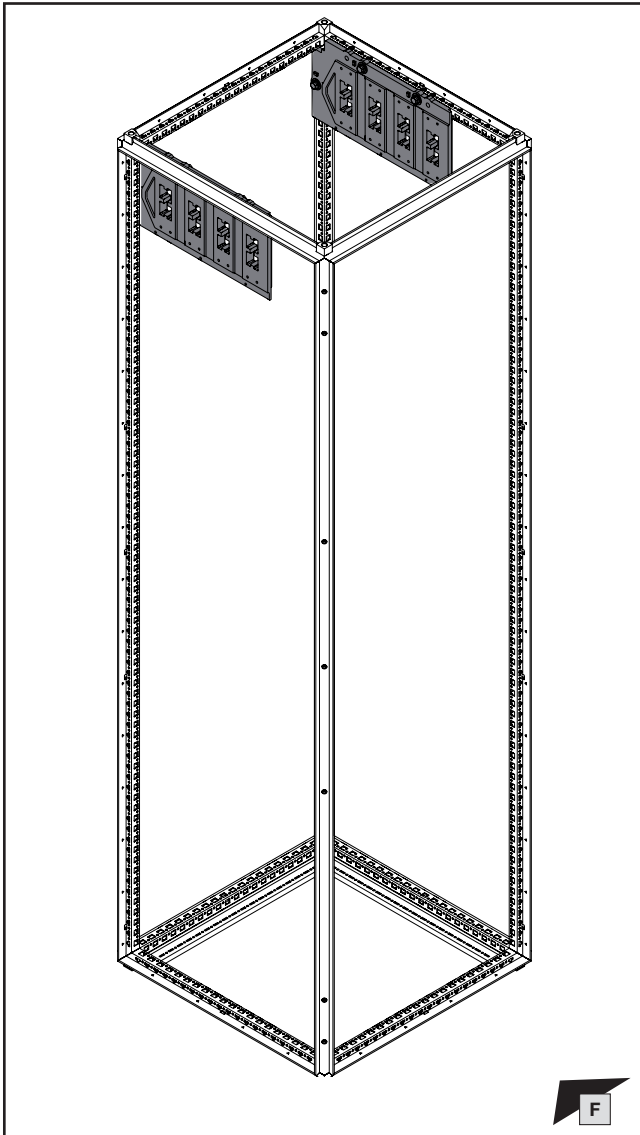
4. Montage Hauptsammelschienensystem

4. Assembling the main busbar system

4. Montage des jeux de barres principaux

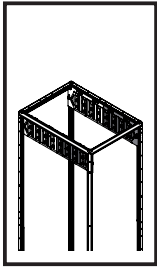


- 4.13 Sammelschienenhalter im Dachbereich für IEC-Anwendung – System A
- 4.13 Busbar support in roof section for IEC application – System A
- 4.13 Support de jeux de barres sous le toit pour application CEI – Système A



$M_A = 20 \text{ Nm (3x)}$

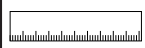
Sammelschiene Abmessung mm Busbar dimensions mm Dimensions de la barre mm	Anreihung Baying Juxtaposition	^A Best.-Nr. Model No. Référence
30x10	X	9686.000
30x10	–	9686.010
50x10	X	9686.030
50x10	–	9686.040



SW13



mm

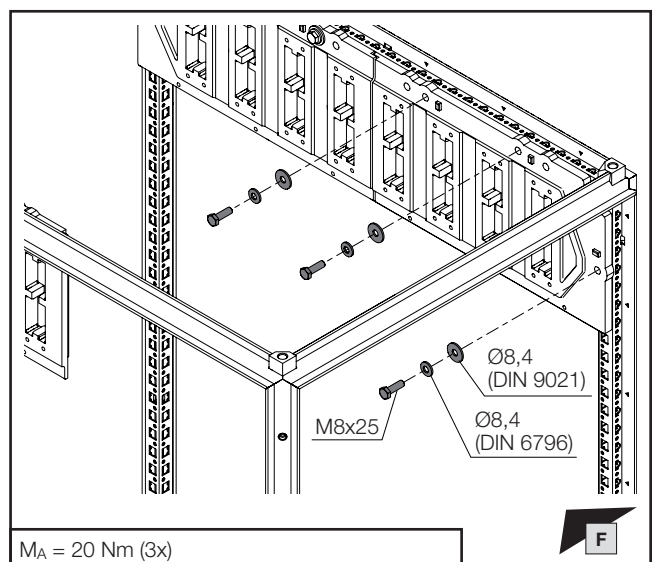
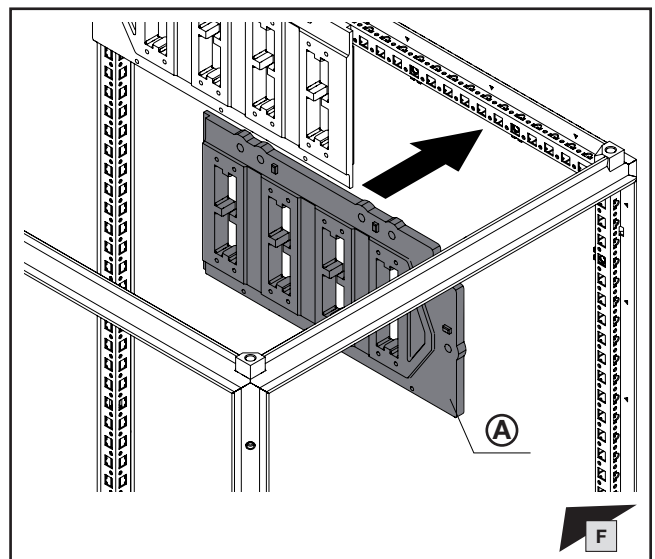
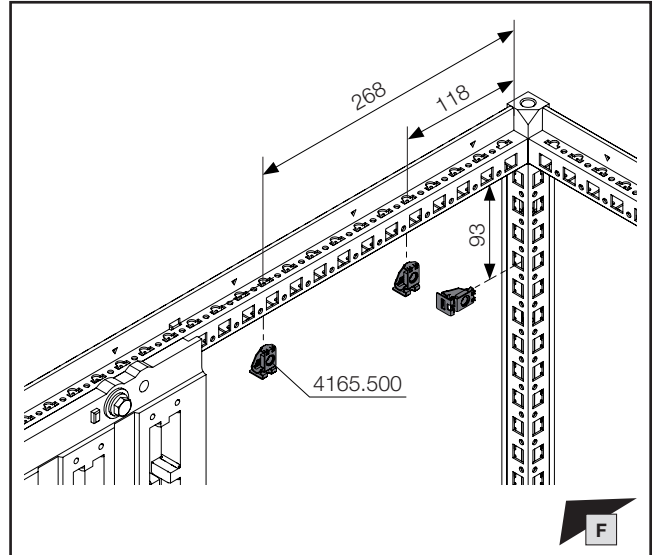
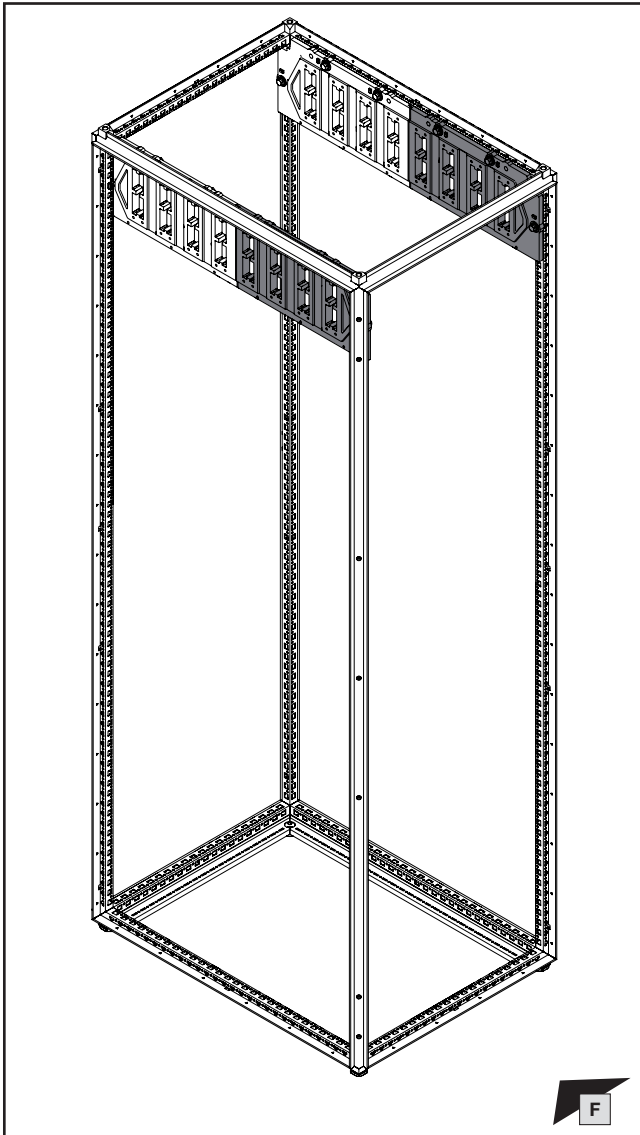


DE EN FR

4. Montage Hauptsammelschienensystem 4. Assembling the main busbar system 4. Montage des jeux de barres principaux

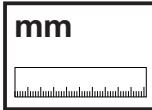
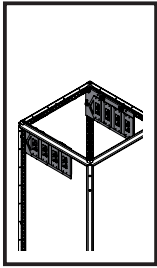


- 4.14 Sammelschienenhalter im Dachbereich für IEC-Anwendung – System B
4.14 Busbar support in roof section for IEC application – System B
4.14 Support de jeux de barres sous le toit pour application CEI – Système B



$M_A = 20 \text{ Nm (3x)}$

Sammelschiene Abmessung mm Busbar dimensions mm Dimensions de la barre mm	Anreihung Baying Juxtaposition	Best.-Nr. Model No. Référence
50x10	X	9686.030
50x10	–	9686.040



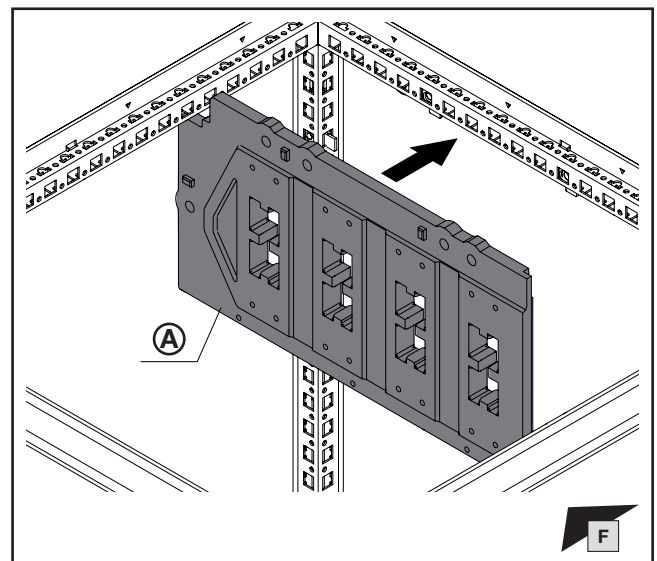
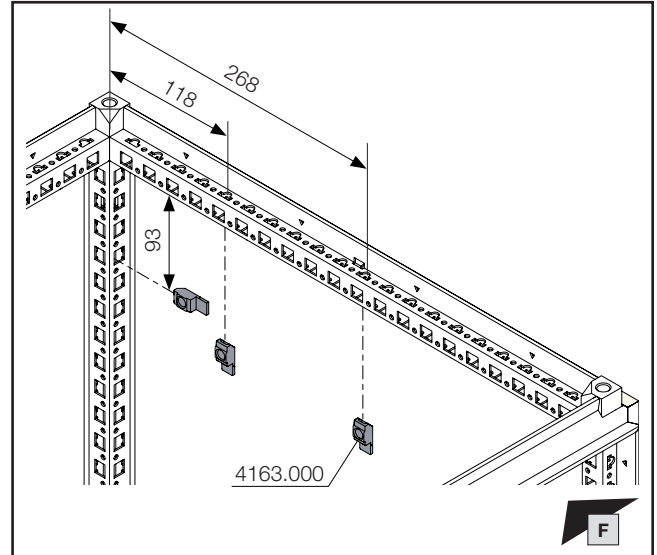
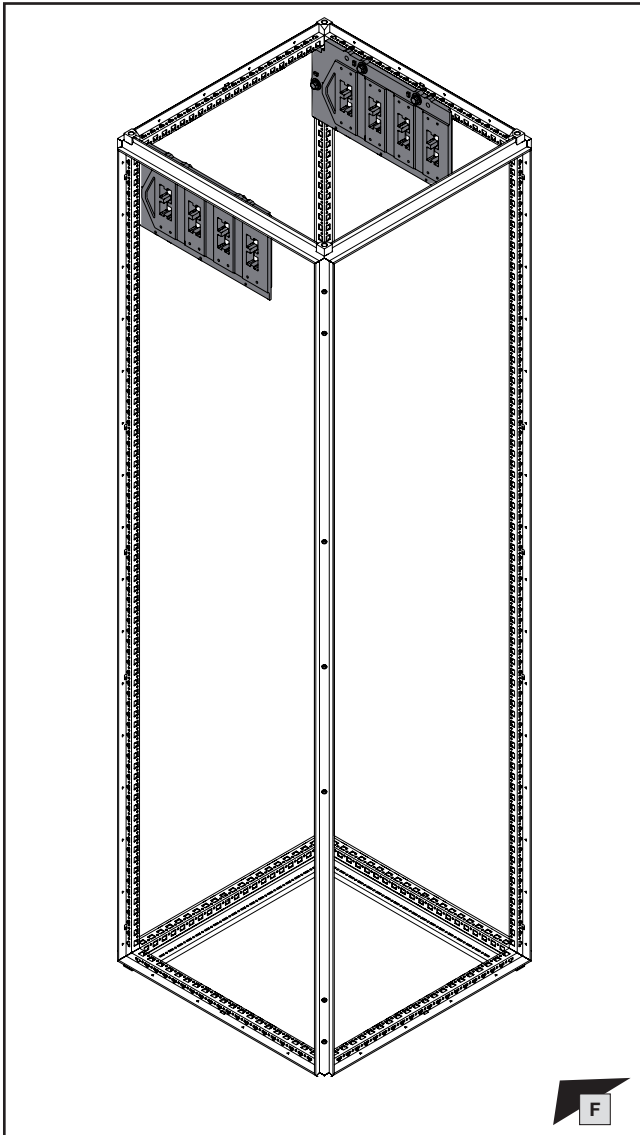
4. Montage Hauptsammelschienensystem

4. Assembling the main busbar system

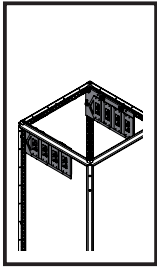
4. Montage des jeux de barres principaux



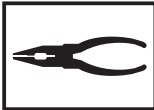
- 4.15 Sammelschienenhalter im Dachbereich für alternative Anwendung – System A
- 4.15 Busbar support in roof section for alternative application – System A
- 4.15 Support de jeux de barres sous le toit pour application alternative – Système A



Sammelschiene Abmessung mm Busbar dimensions mm Dimensions de la barre mm	Anreihung Baying Juxtaposition	^A Best.-Nr. Model No. Référence
30x10	X	9686.000
30x10	–	9686.010
50x10	X	9686.030
50x10	–	9686.040



SW13



DE EN FR

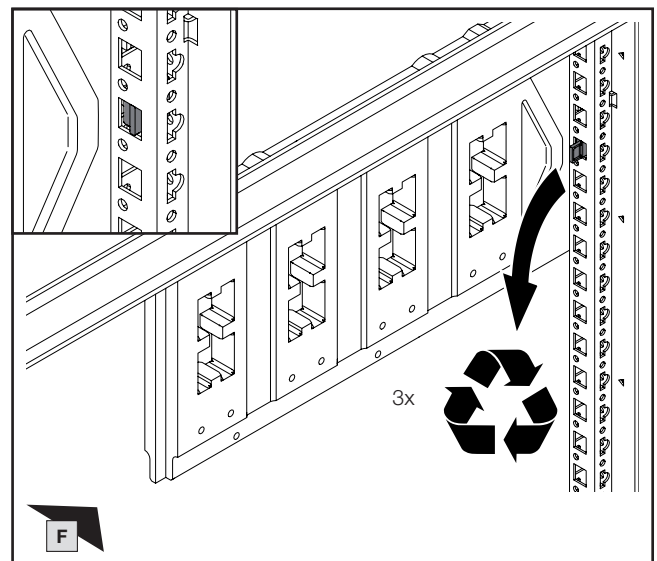
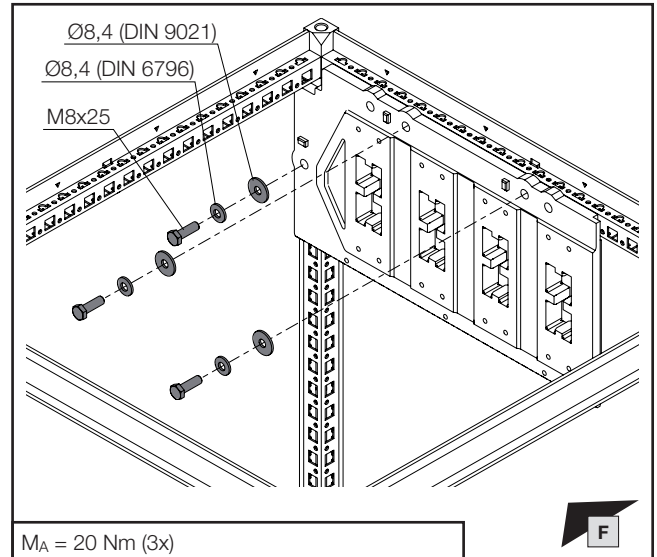
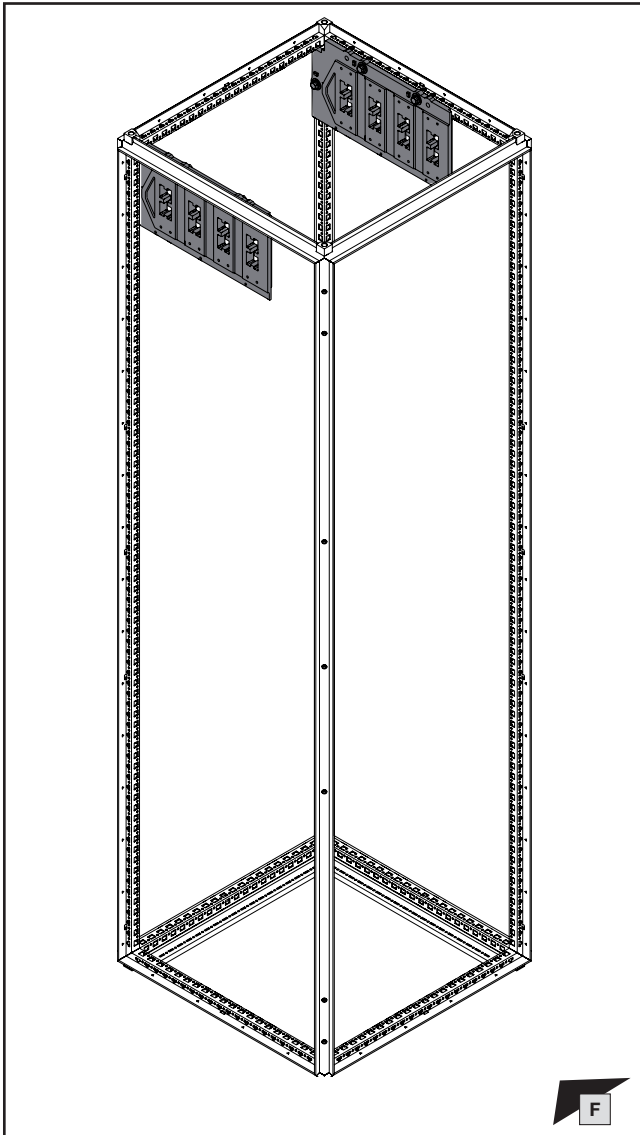
4. Montage Hauptsammelschienensystem

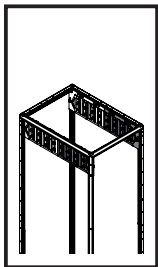
4. Assembling the main busbar system

4. Montage des jeux de barres principaux

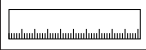


- 4.15 Sammelschienenhalter im Dachbereich für alternative Anwendung – System A
- 4.15 Busbar support in roof section for alternative application – System A
- 4.15 Support de jeux de barres sous le toit pour application alternative – Système A





mm



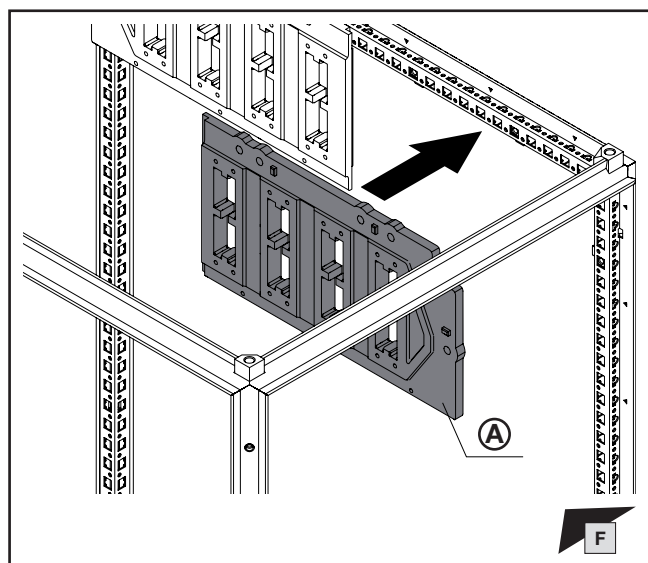
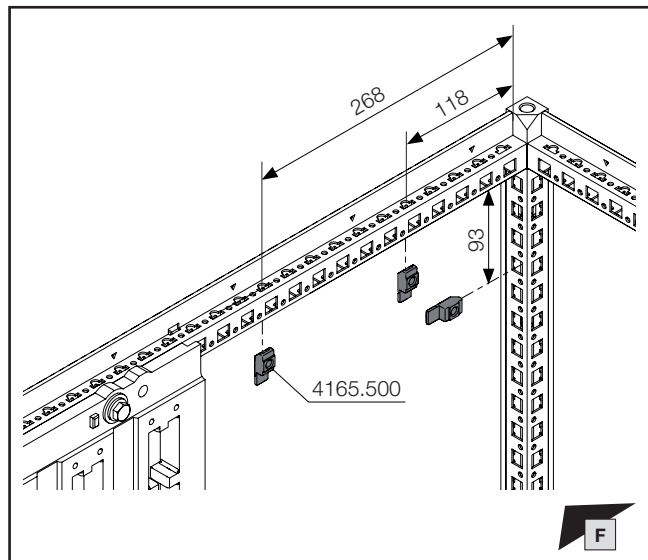
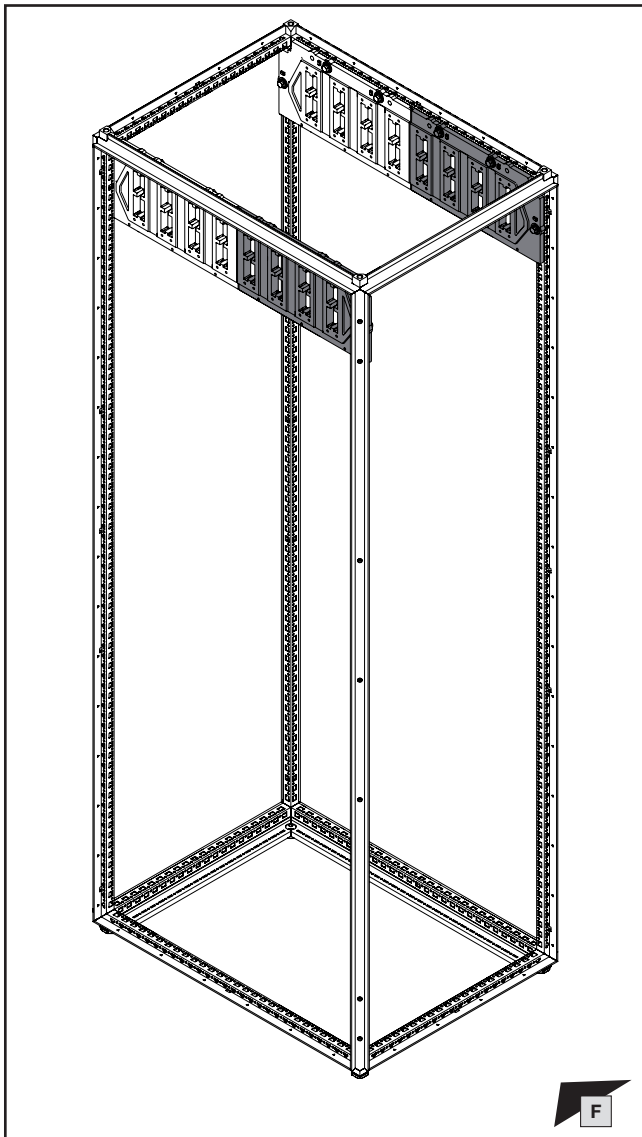
4. Montage Hauptsammelschienensystem

4. Assembling the main busbar system

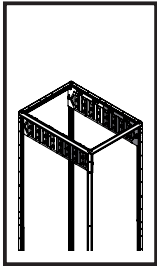
4. Montage des jeux de barres principaux



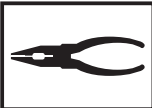
- 4.16 Sammelschienenhalter im Dachbereich für alternative Anwendung – System B
- 4.16 Busbar support in roof section for alternative application – System B
- 4.16 Support de jeux de barres sous le toit pour application alternative – Système B



Sammelschiene Abmessung mm Busbar dimensions mm Dimensions de la barre mm	Anreihung Baying Juxtaposition	Best.-Nr. Model No. Référence
50x10	X	9686.030
50x10	–	9686.040



SW13

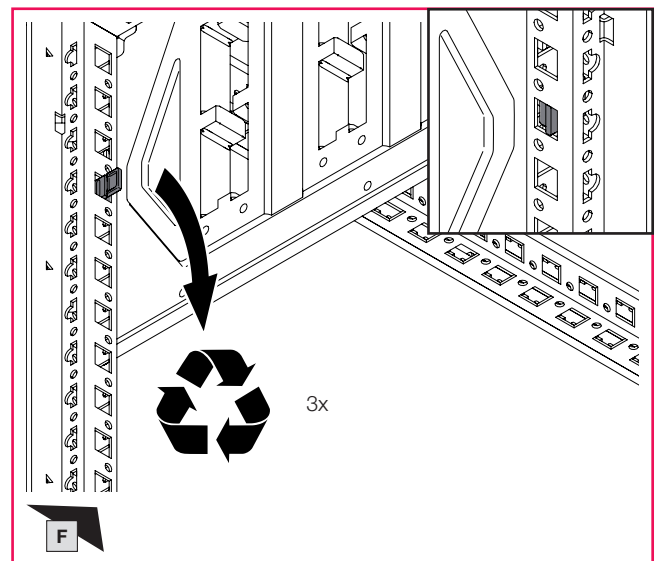
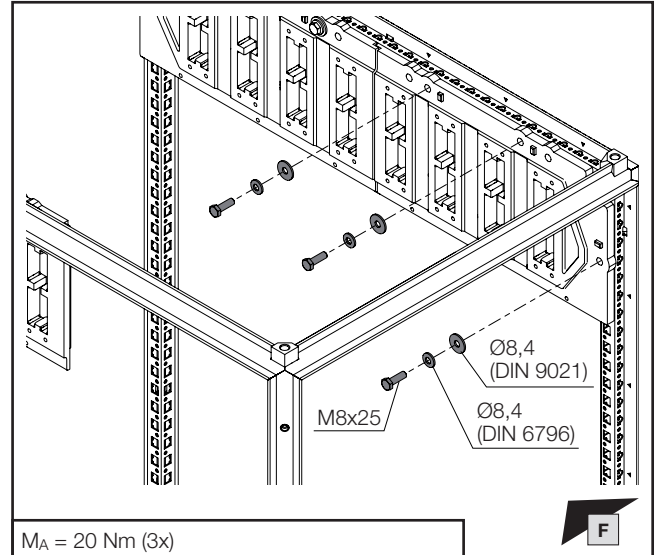
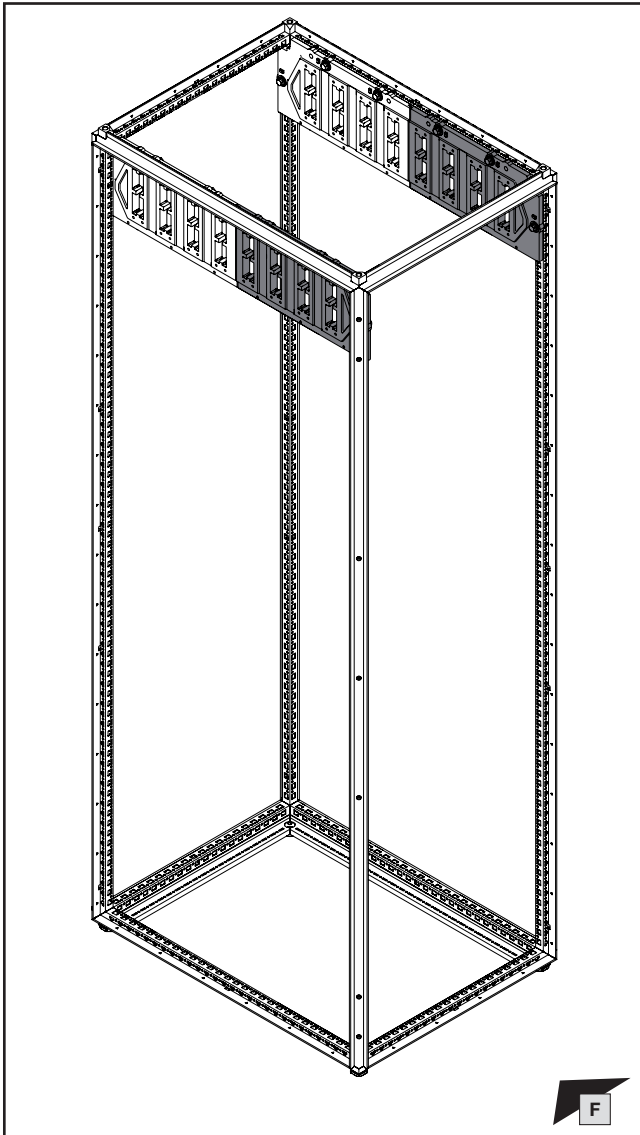


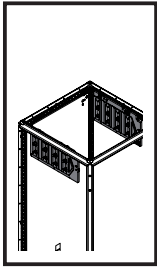
DE EN FR

4. Montage Hauptsammelschienensystem 4. Assembling the main busbar system 4. Montage des jeux de barres principaux



- 4.16 Sammelschienenhalter im Dachbereich für alternative Anwendung – System B
4.16 Busbar support in roof section for alternative application – System B
4.16 Support de jeux de barres sous le toit pour application alternative – Système B

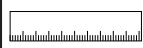




SW13



mm

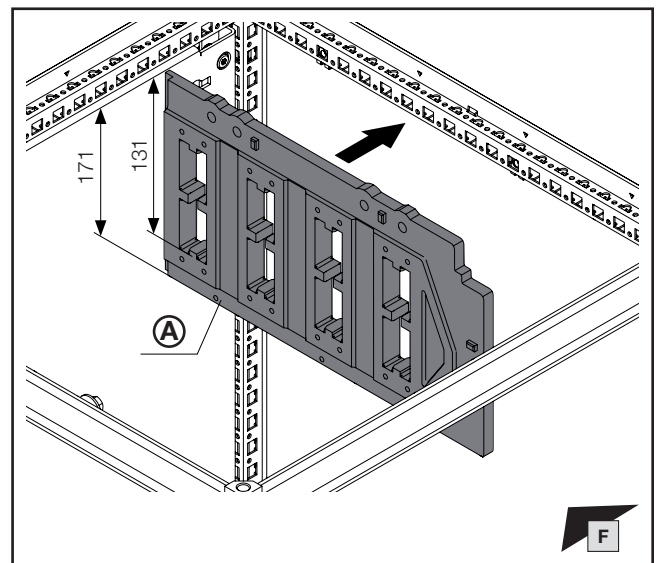
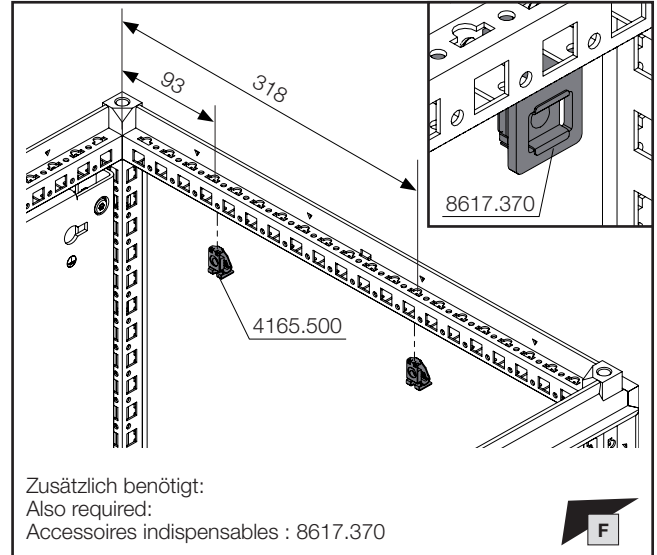
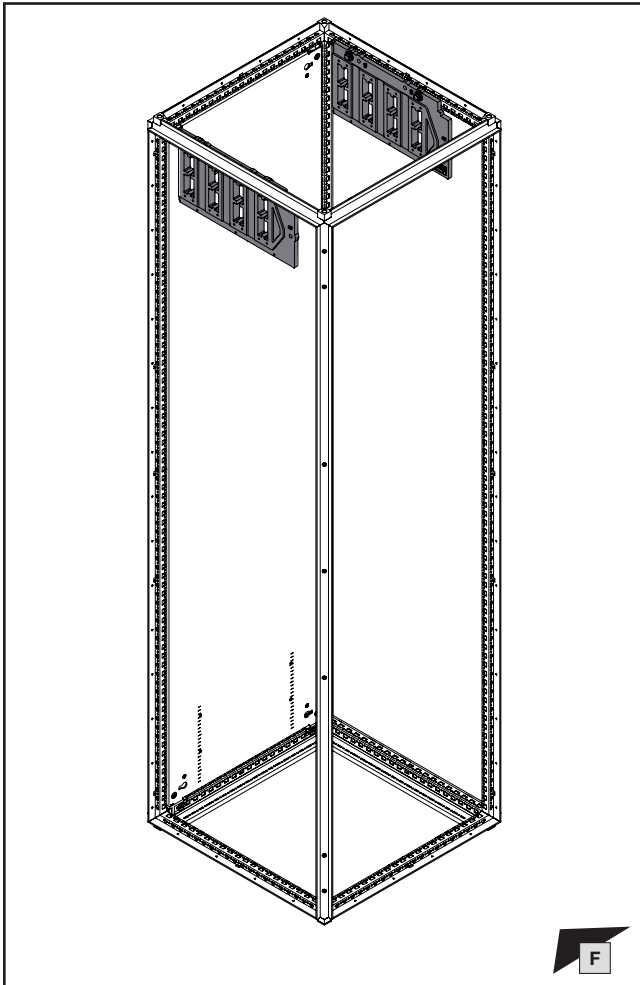


DE EN FR

4. Montage Hauptsammelschienensystem 4. Assembling the main busbar system 4. Montage des jeux de barres principaux



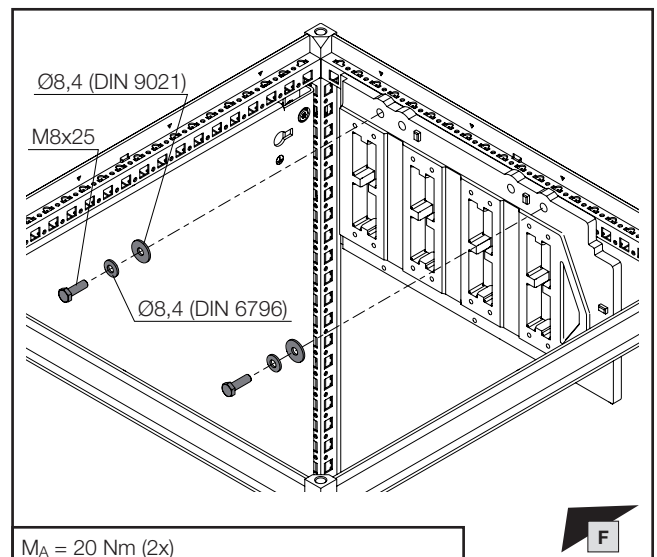
- 4.17 Sammelschienenhalter mit Montageplatte VX25
(Position: ± 0 mm)
4.17 Busbar support with mounting plate VX25
(position: ± 0 mm)
4.17 Support de jeux de barres avec plaque de montage VX25
(position : ± 0 mm)

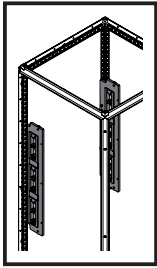


Sammelschiene Abmessung mm Busbar dimensions mm Dimensions de la barre mm	Anreihung Baying Juxtaposition	(A) Best.-Nr. Model No. Référence
30x10	X	9686.000
30x10	–	9686.010
50x10	X	9686.030
50x10	–	9686.040

Multifunktions-Einbausatz für Montageplatte
Multifunction mounting kit for mounting plate
Kit de montage multifonctions pour plaque de montage

DE/EN/FR

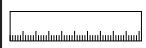




SW13



mm



DE EN FR

4. Montage Hauptsammelschienensystem

4. Assembling the main busbar system

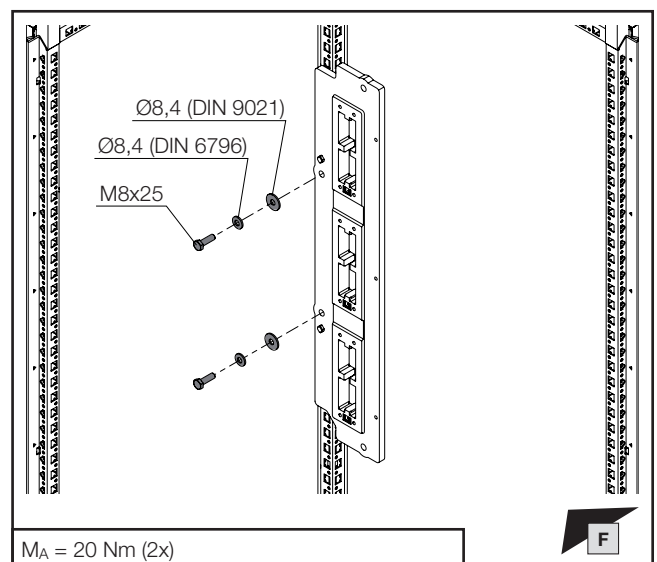
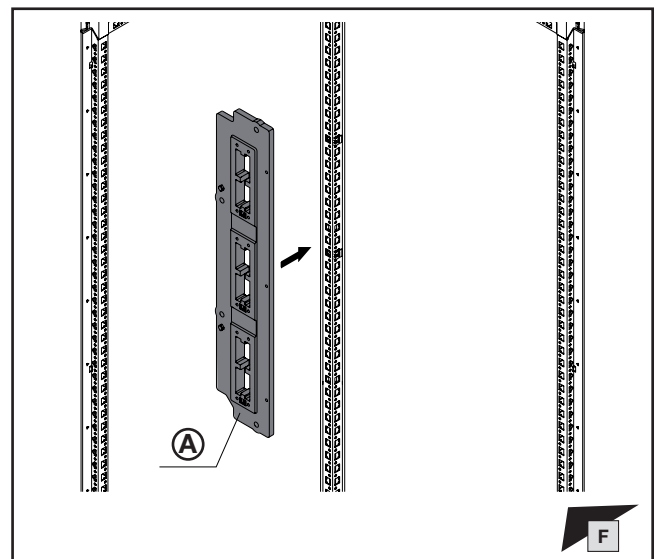
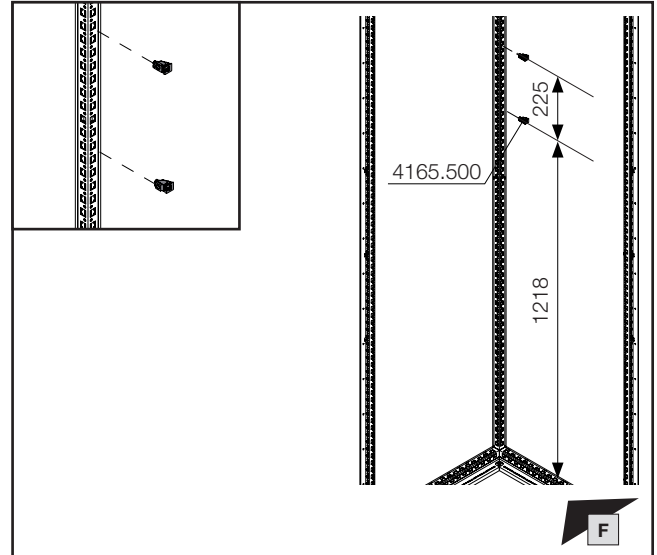
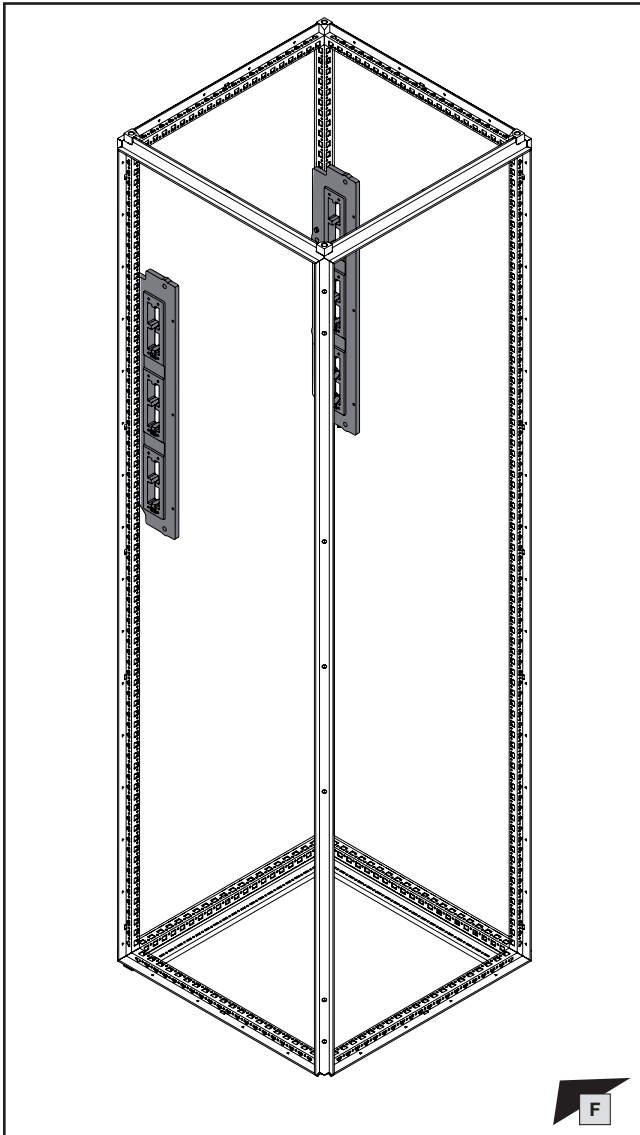
4. Montage des jeux de barres principaux



4.18 Sammelschienenhalter im Rückbereich

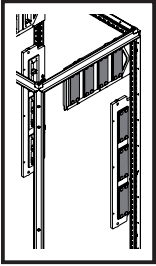
4.18 Busbar support in the rear section

4.18 Support de jeux de barres dans la partie arrière



$M_A = 20 \text{ Nm (2x)}$

Sammelschiene Abmessung mm Busbar dimensions mm Dimensions de la barre mm	Anreihung Baying Juxtaposition	Best.-Nr. Model No. Référence
50x10	X	9686.060
50x10	—	9686.070

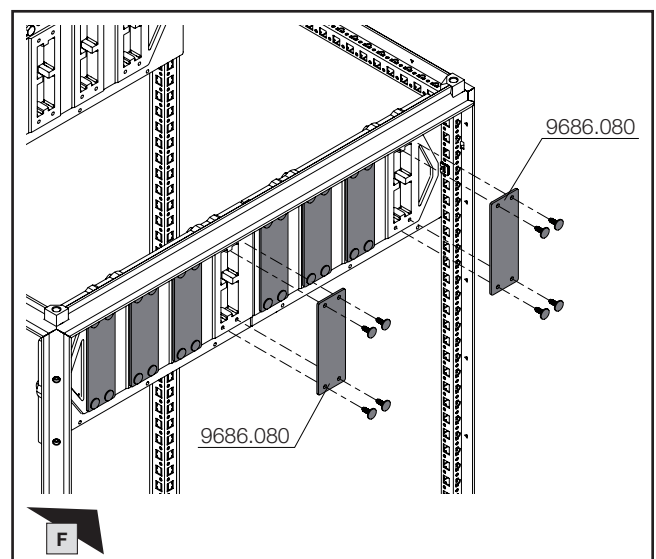
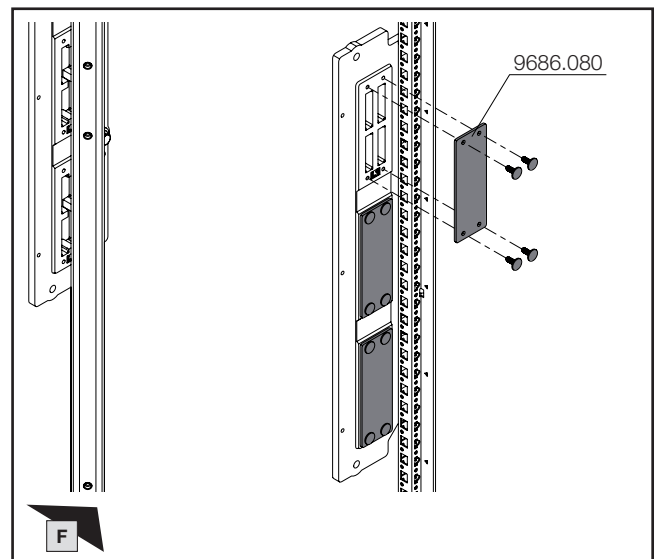
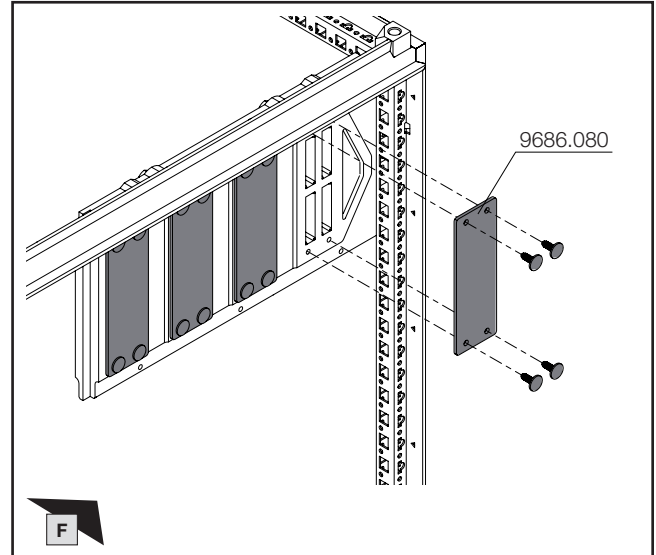
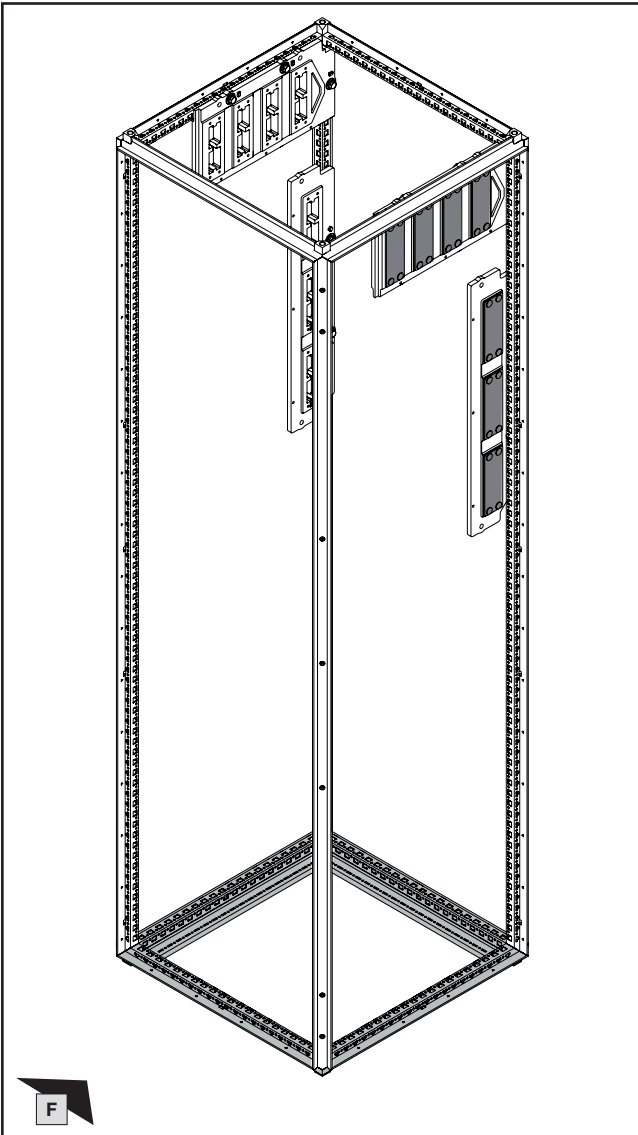


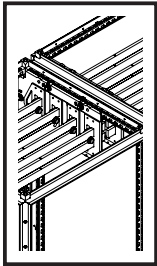
4. Montage Hauptsammelschienensystem

4. Assembling the main busbar system

4. Montage des jeux de barres principaux

- 4.19 Endabdeckung Sammelschienenhalter für Dach- und Rückbereich
 4.19 Busbar support end cover for the roof and rear section
 4.19 Couvercle d'extrémité de support de jeux de barres sous le toit et dans la partie arrière

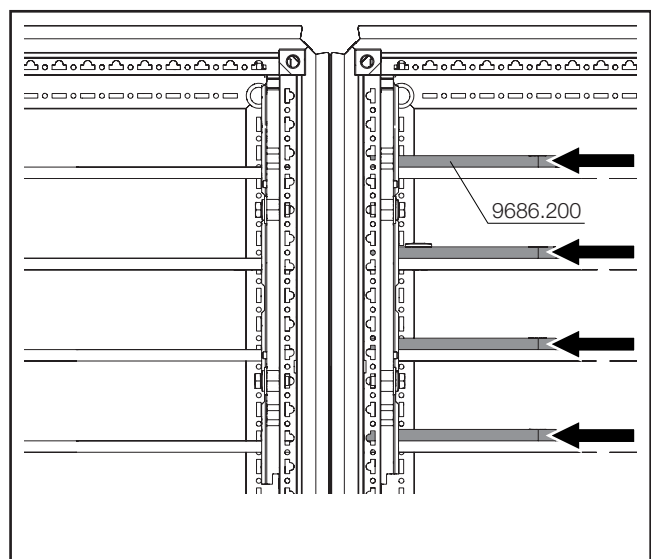
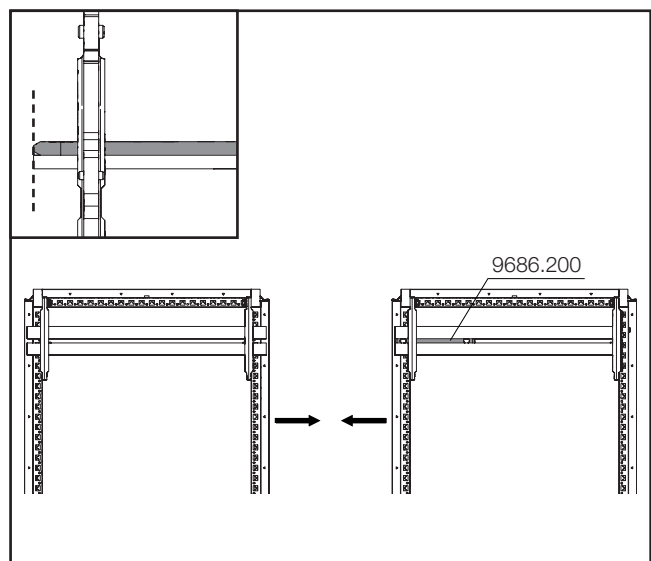
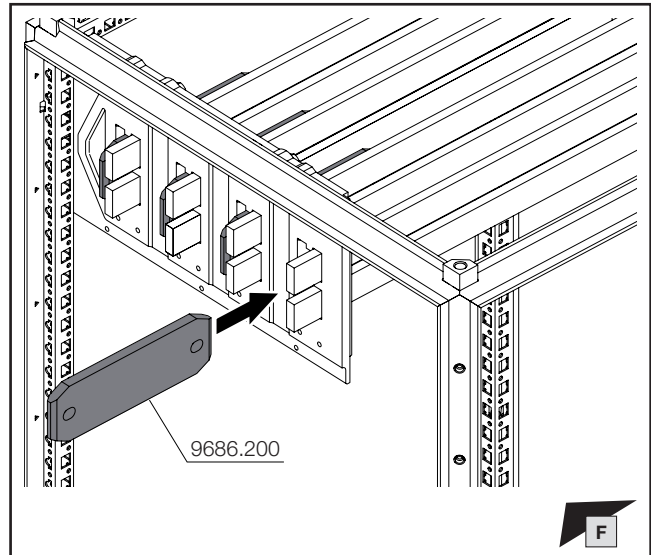
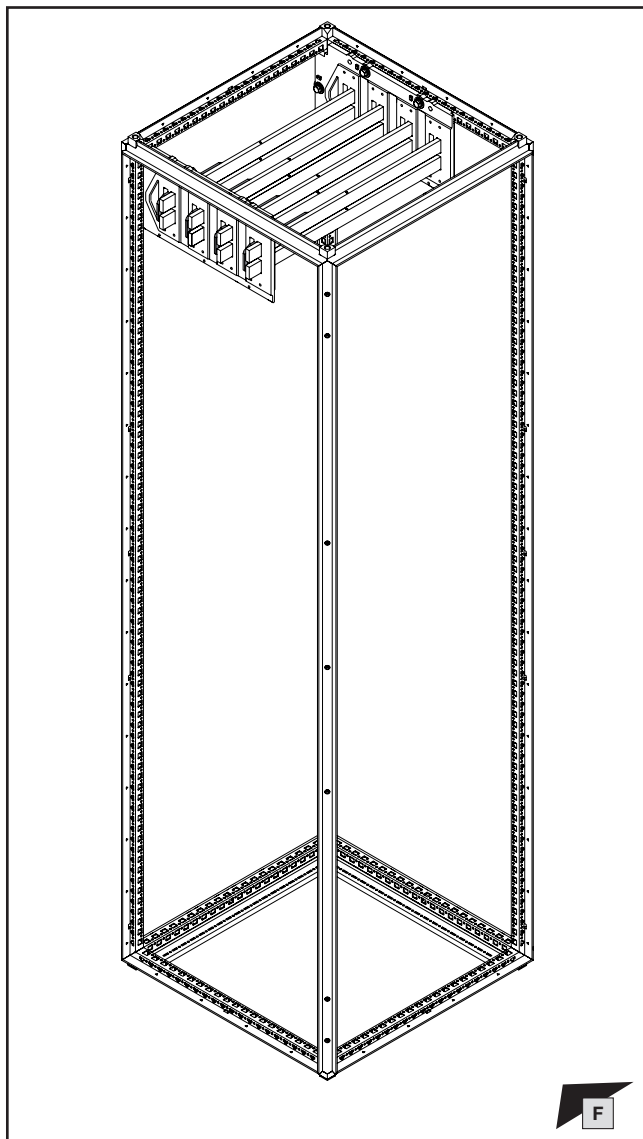


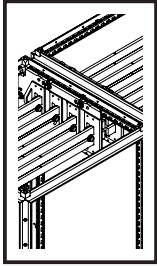


4. Montage Hauptsammelschienensystem 4. Assembling the main busbar system 4. Montage des jeux de barres principaux



- 4.20 Anreihung 2 Sammelschienen 30x10 im Dachbereich
4.20 Baying 2 busbars 30x10 in the roof section
4.20 Juxtaposition de 2 jeux de barres 30x10 sous le toit





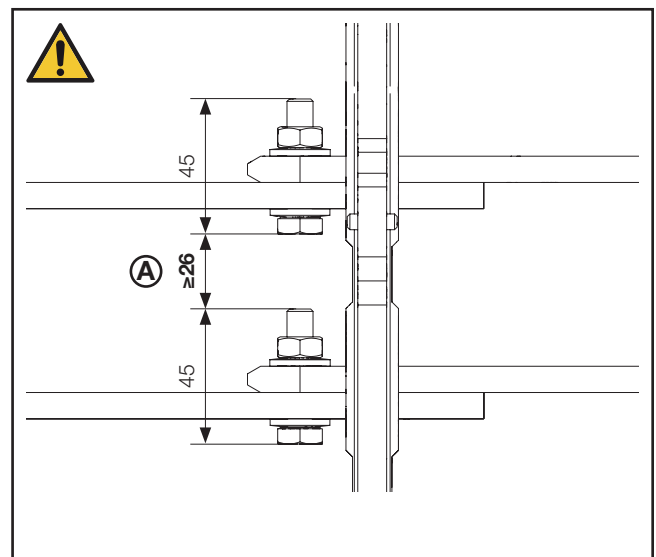
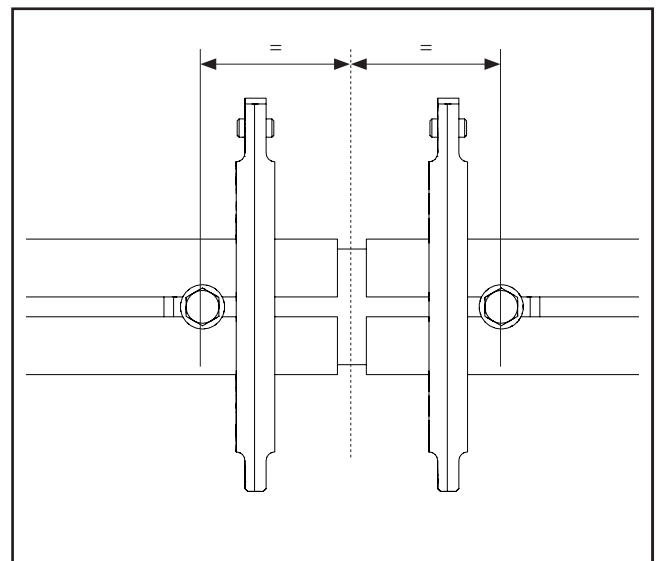
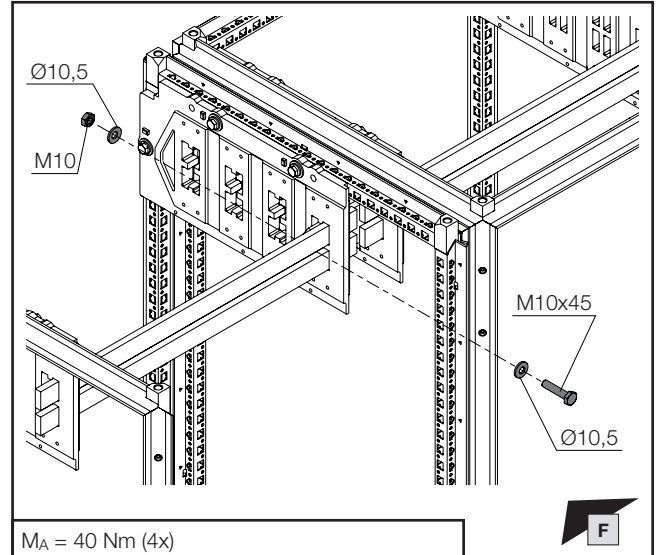
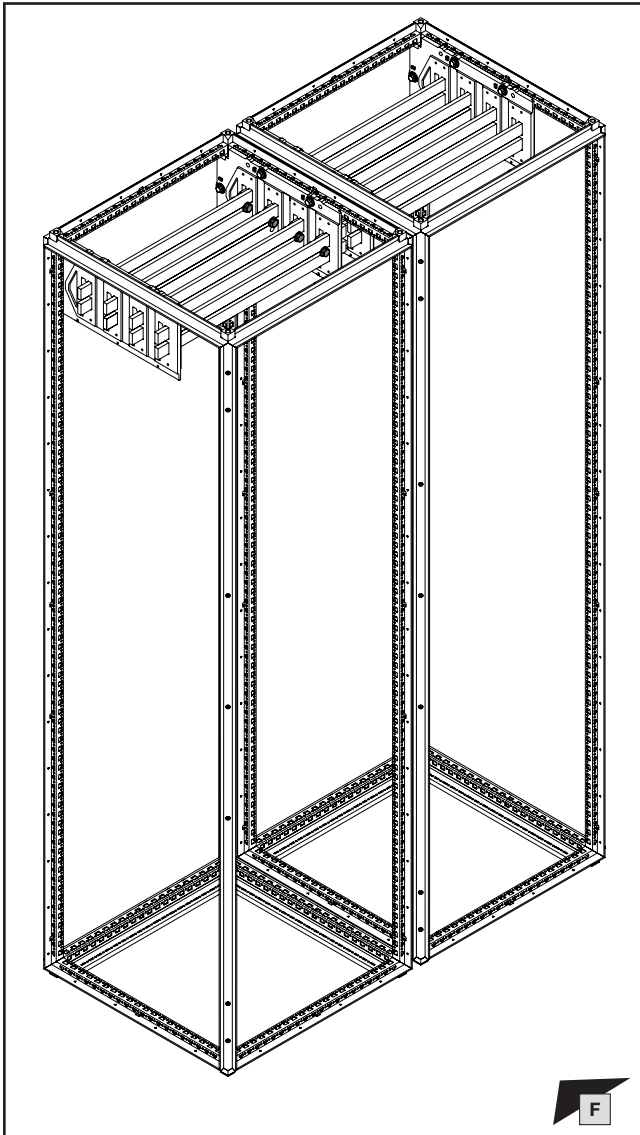
SW16/
SW17

DE EN FR

4. Montage Hauptsammelschienensystem 4. Assembling the main busbar system 4. Montage des jeux de barres principaux

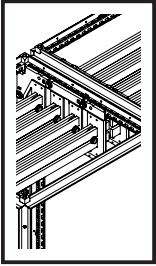


4.20 Anreihung 2 Sammelschienen 30x10 im Dachbereich
4.20 Baying 2 busbars 30x10 in the roof section
4.20 Juxtaposition de 2 jeux de barres 30x10 sous le toit



Hinweis / Note / Remarque A

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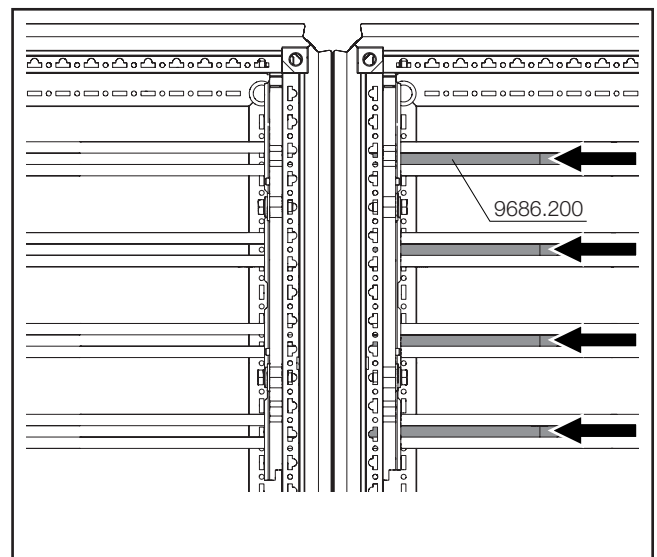
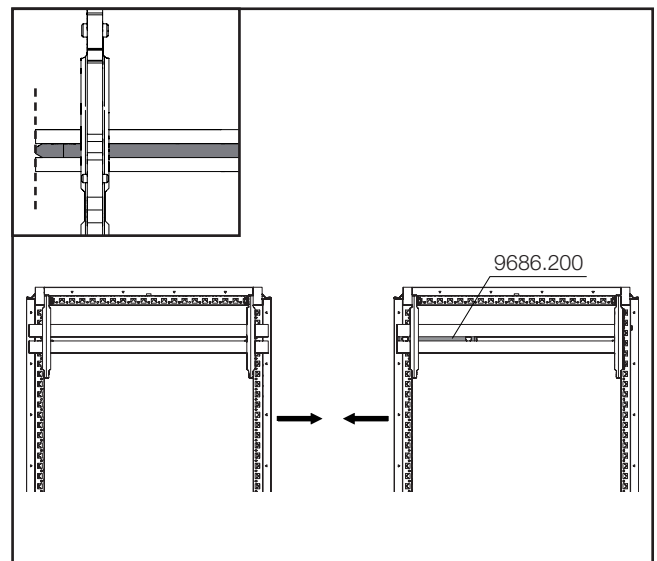
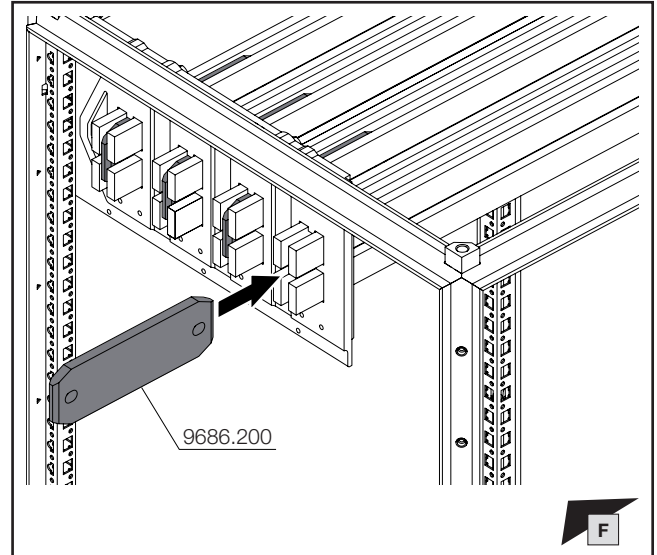
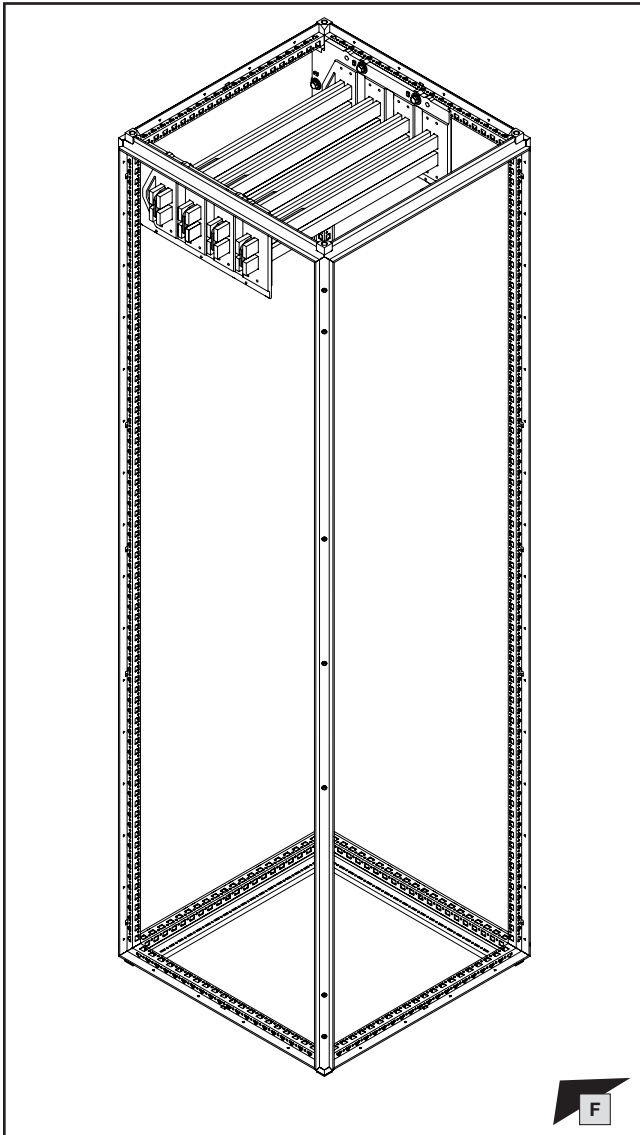
4. Montage Hauptsammelschienensystem

4. Assembling the main busbar system

4. Montage des jeux de barres principaux



- 4.21 Anreihung 4 Sammelschienen 30x10 im Dachbereich
 4.21 Baying 4 busbars 30x10 in the roof section
 4.21 Juxtaposition de 4 jeux de barres 30x10 sous le toit

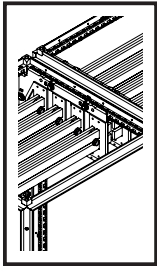


Hinweis / Note / Remarque

Gegebenenfalls Schraubverbindungen oder festgeschraubte Komponenten in unmittelbarer Nähe zum Verschieben der Längsverbinder lockern und nach der Montage wieder mit vorgegebenen Drehmomente festziehen!

If necessary, loosen screw connections or screw-fastened components in the immediate vicinity to move the longitudinal connectors, then re-tighten with the specified torques when fully assembled!

Pour déplacer les éléments de jonction longitudinaux, desserrer éventuellement les liaisons vissées ou les composants vissés à proximité, puis les resserrer à nouveau avec les couples de serrage prescrits après le montage !



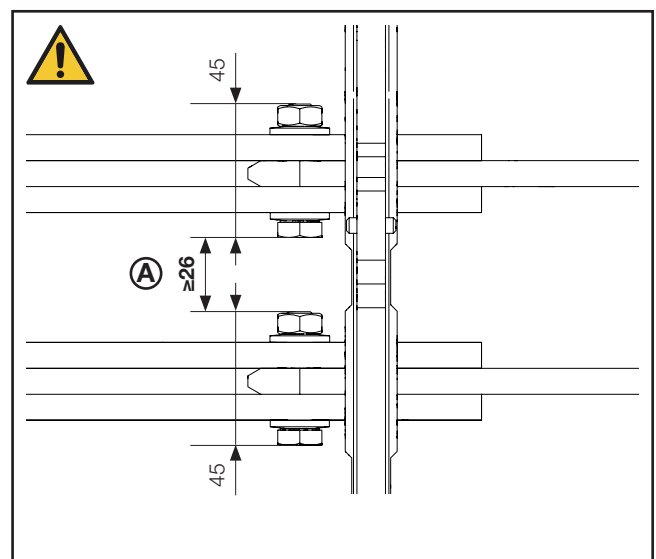
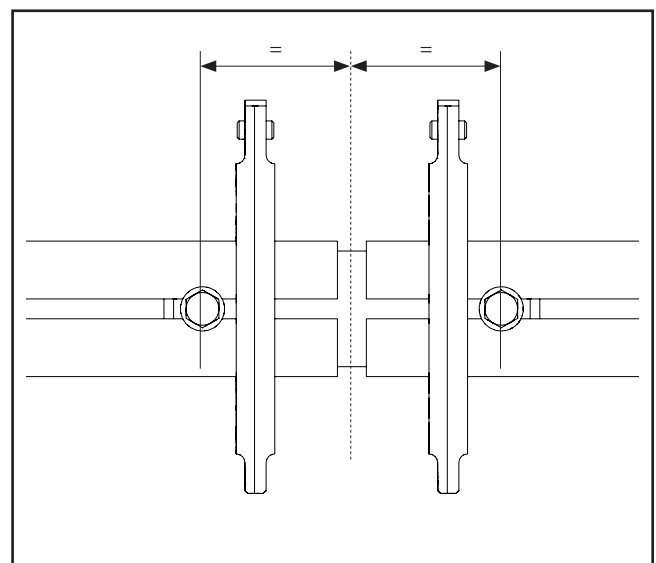
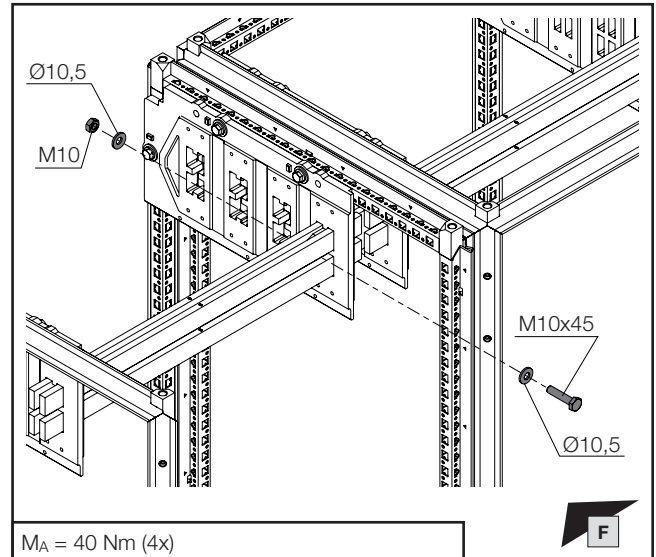
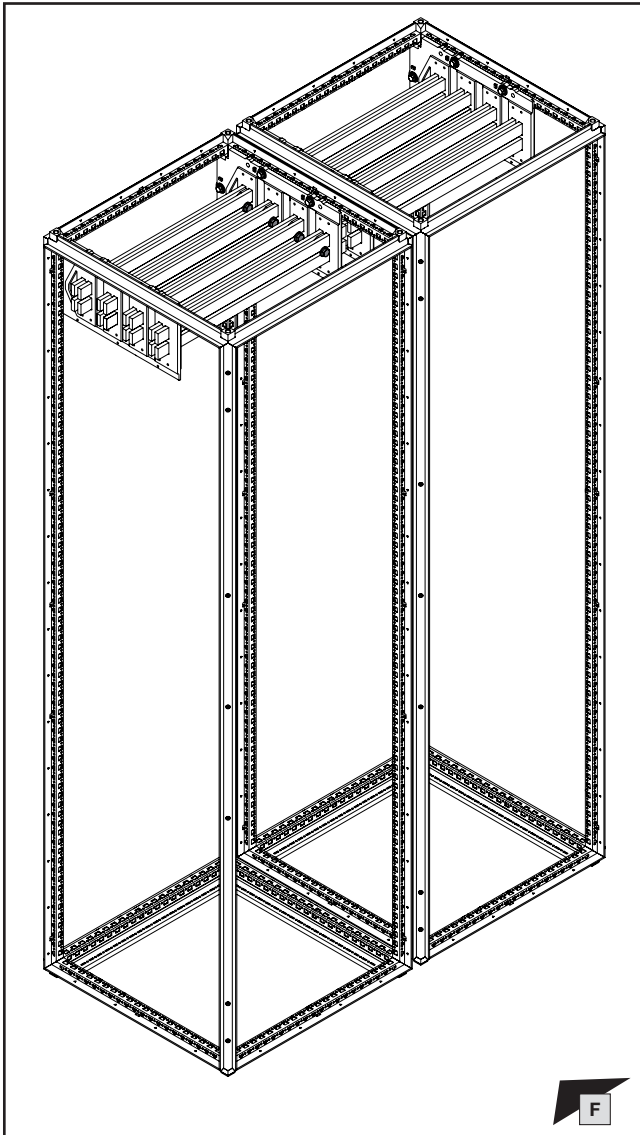
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4. Montage Hauptsammelschienensystem 4. Assembling the main busbar system 4. Montage des jeux de barres principaux

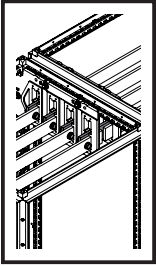


- 4.21 Anreihung 4 Sammelschienen 30x10 im Dachbereich
4.21 Baying 4 busbars 30x10 in the roof section
4.21 Juxtaposition de 4 jeux de barres 30x10 sous le toit



Hinweis / Note / Remarque (A)

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4. Montage Hauptsammelschienensystem

4. Assembling the main busbar system

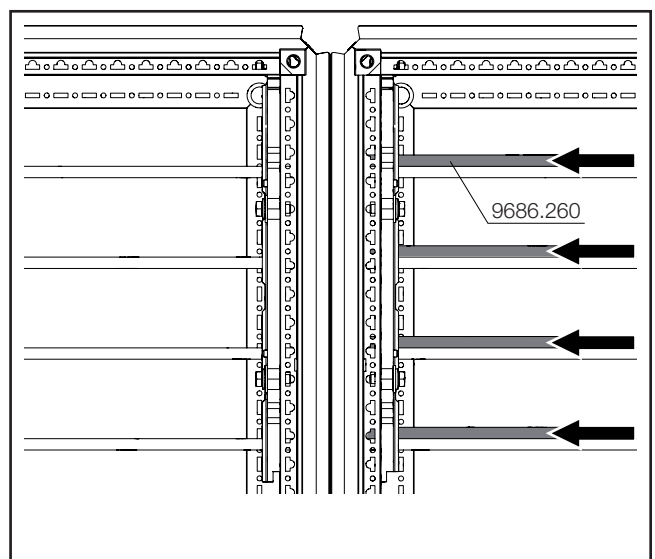
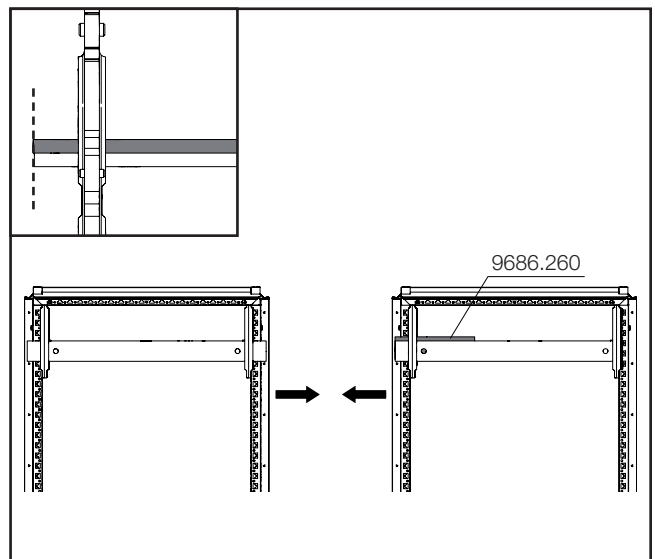
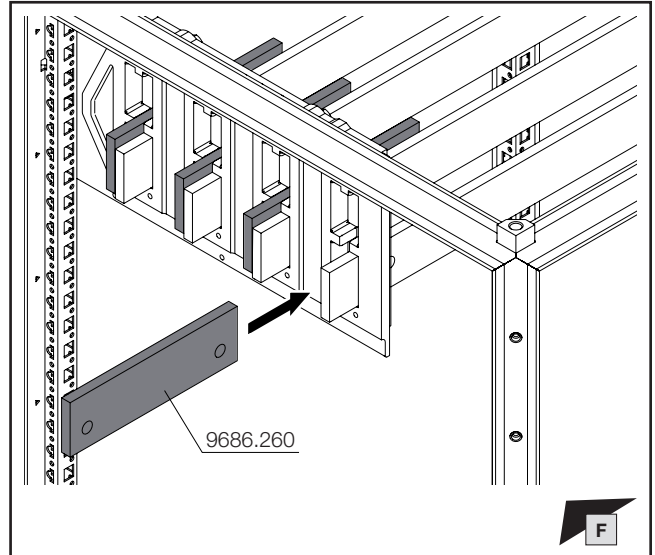
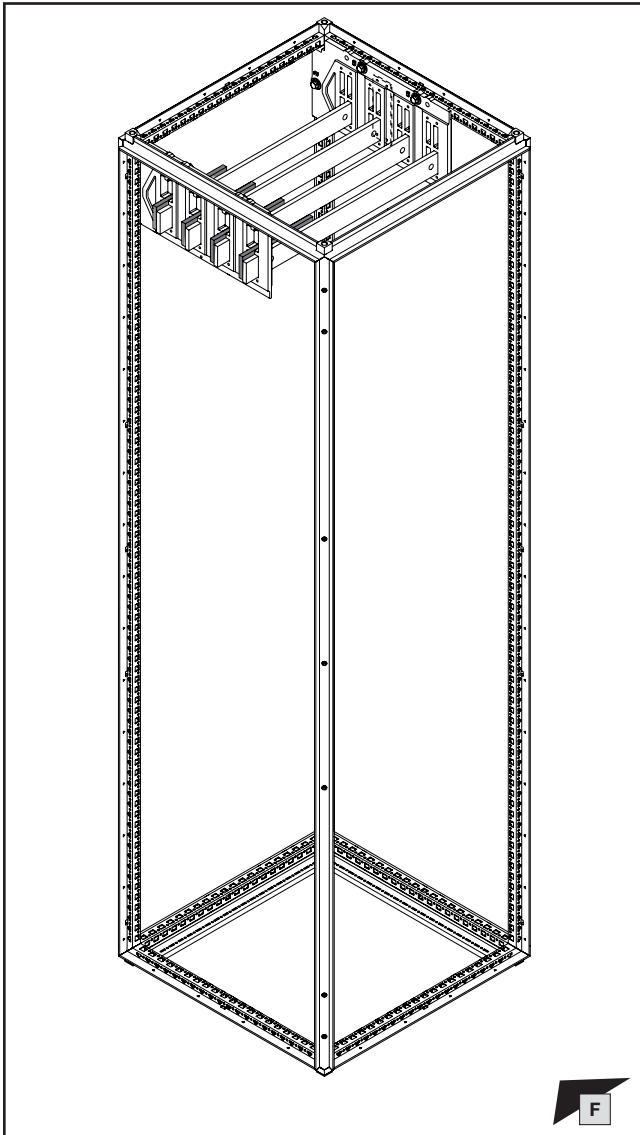
4. Montage des jeux de barres principaux

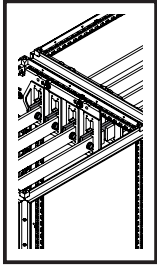


4.22 Anreihung 1 Sammelschiene 50x10 im Dachbereich

4.22 Baying 1 busbar 50x10 in the roof section

4.22 Juxtaposition d'1 jeu de barres 50x10 sous le toit





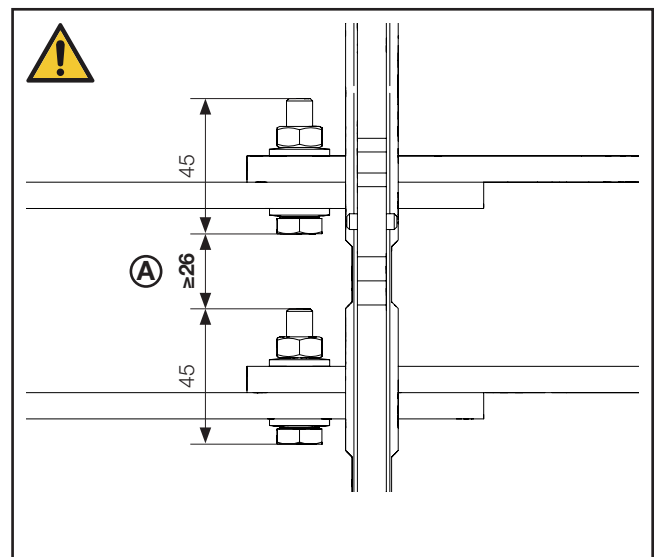
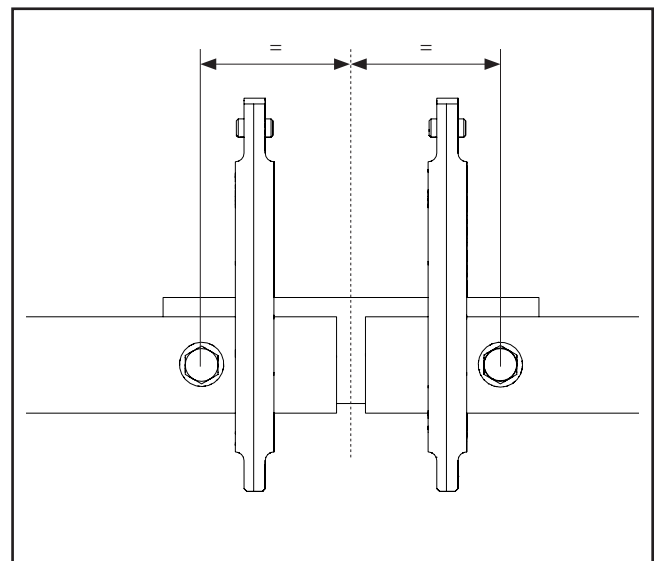
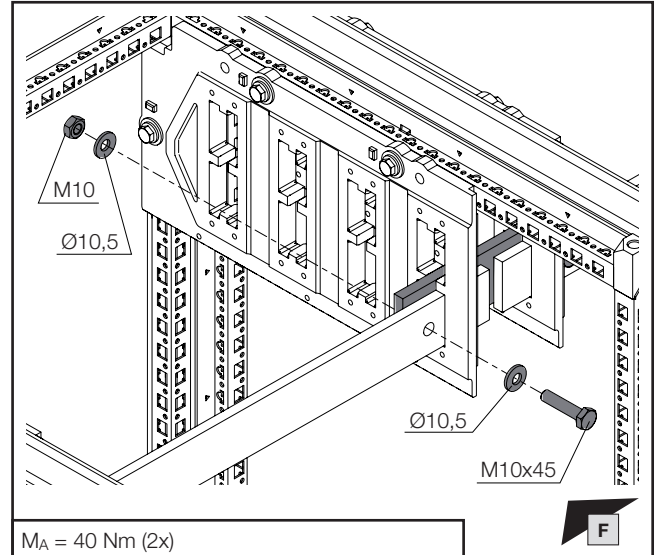
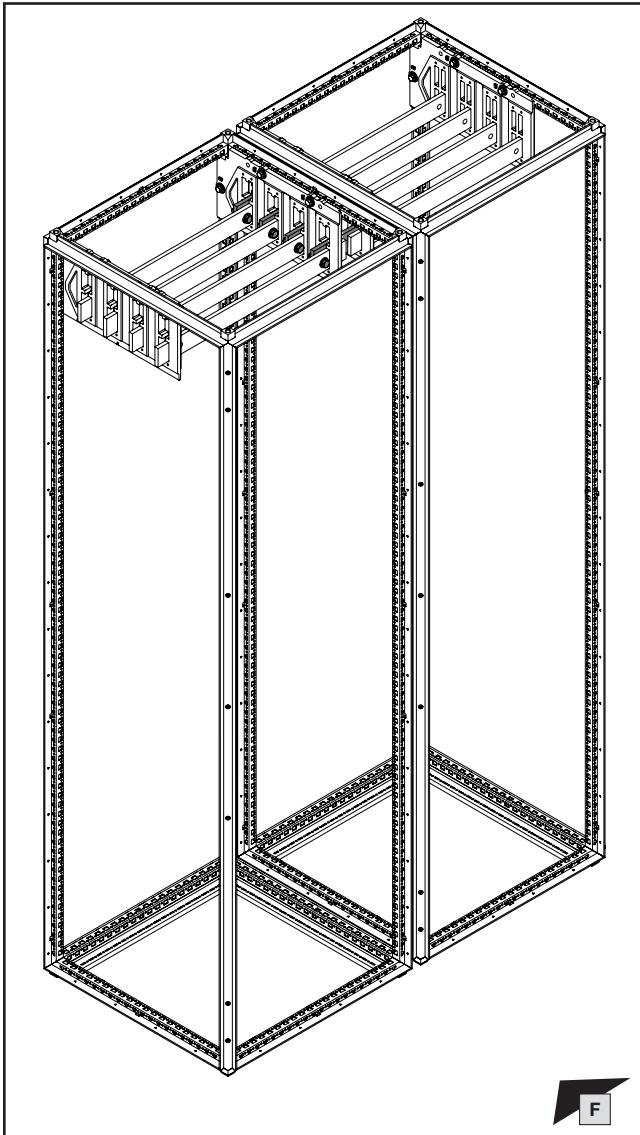
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4. Montage Hauptsammelschienensystem 4. Assembling the main busbar system 4. Montage des jeux de barres principaux

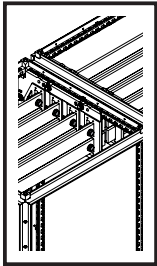


4.22 Anreihung 1 Sammelschiene 50x10 im Dachbereich
4.22 Baying 1 busbar 50x10 in the roof section
4.22 Juxtaposition d'1 jeu de barres 50x10 sous le toit



Hinweis / Note / Remarque (A)

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4. Montage Hauptsammelschienensystem

4. Assembling the main busbar system

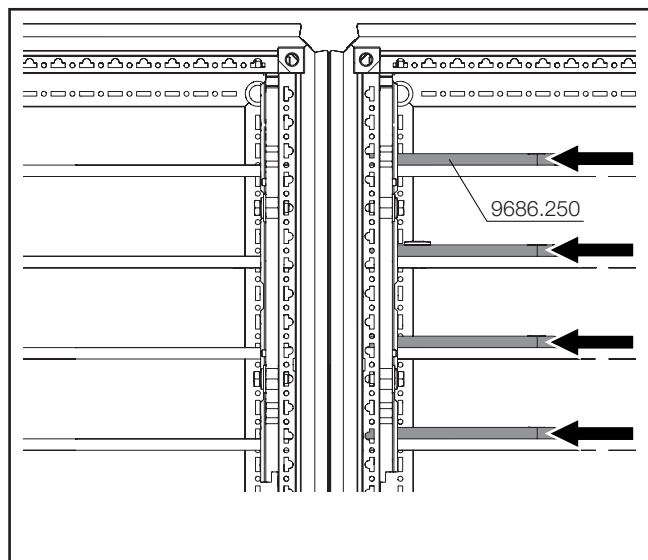
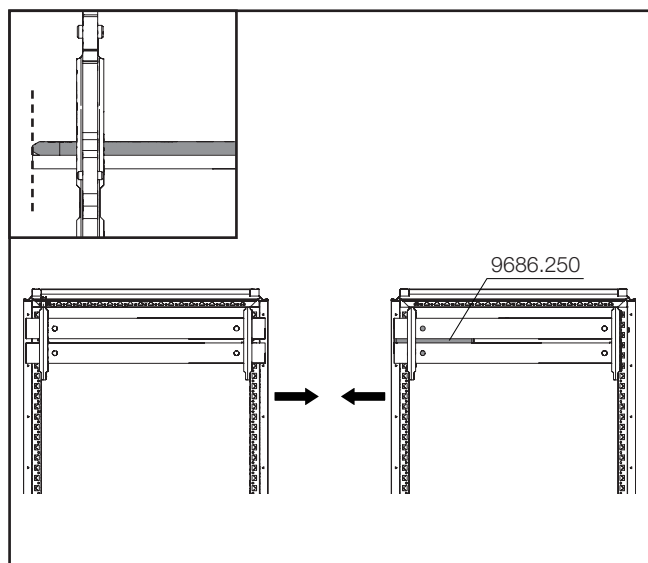
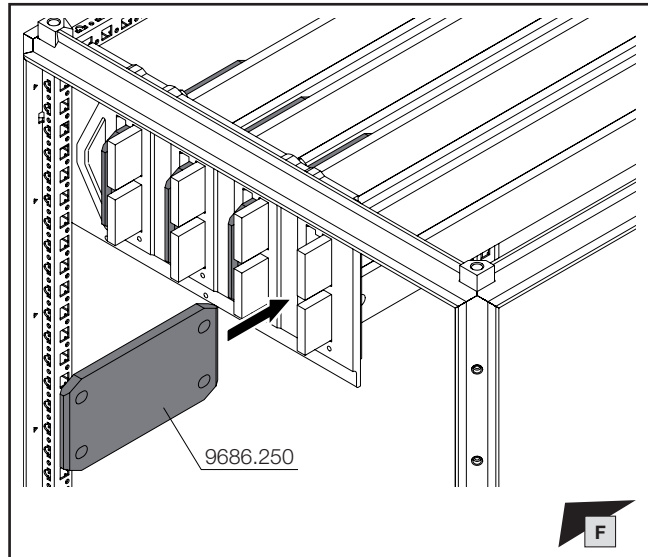
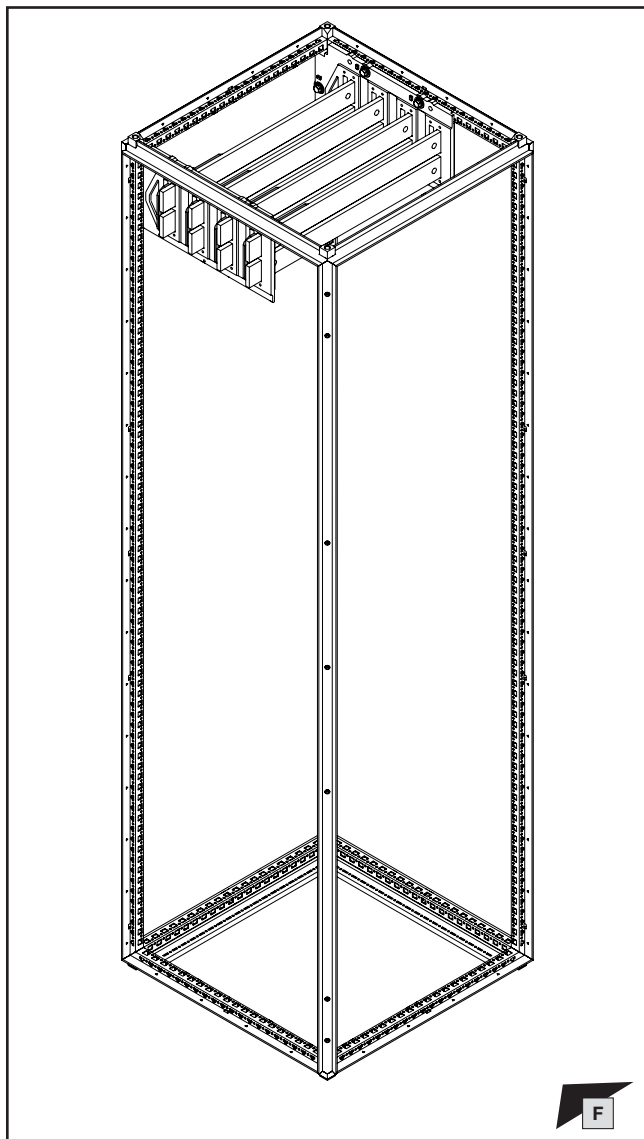
4. Montage des jeux de barres principaux

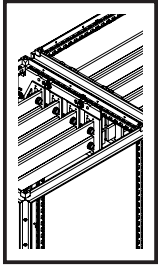


4.23 Anreihung 2 Sammelschienen 50x10 im Dachbereich

4.23 Baying 2 busbars 50x10 in the roof section

4.23 Juxtaposition de 2 jeux de barres 50x10 sous le toit





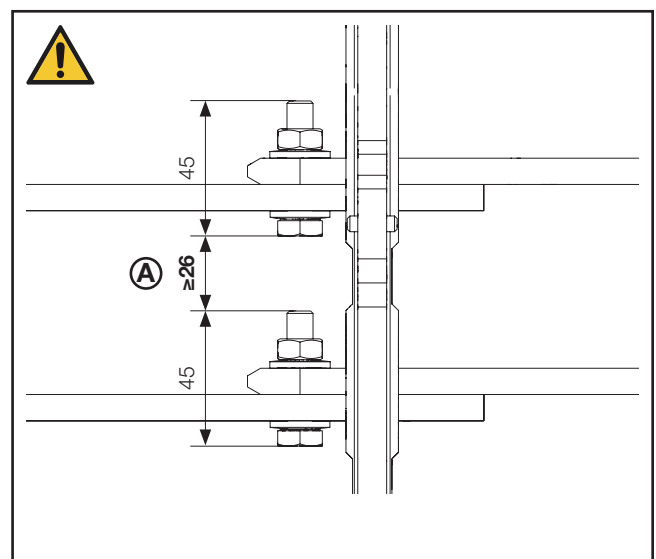
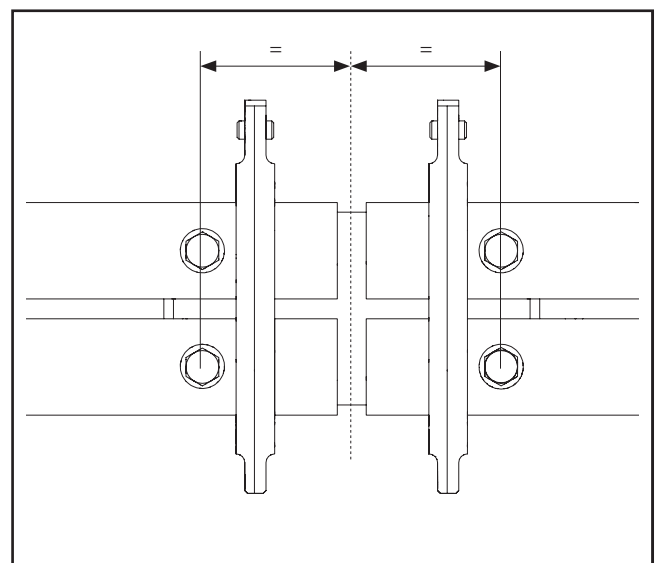
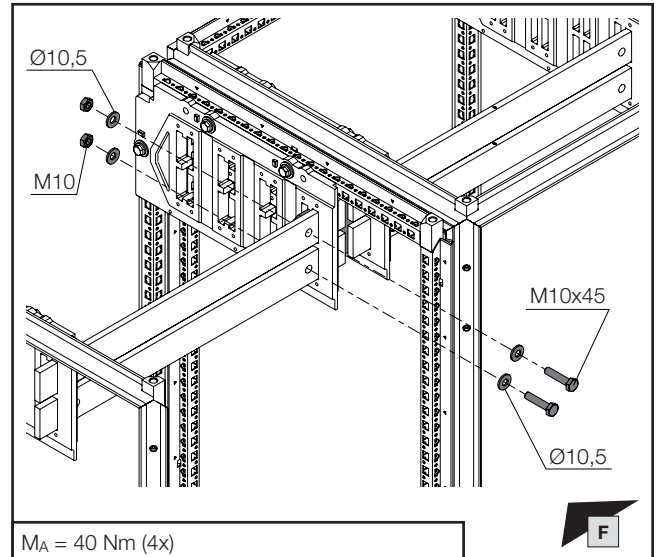
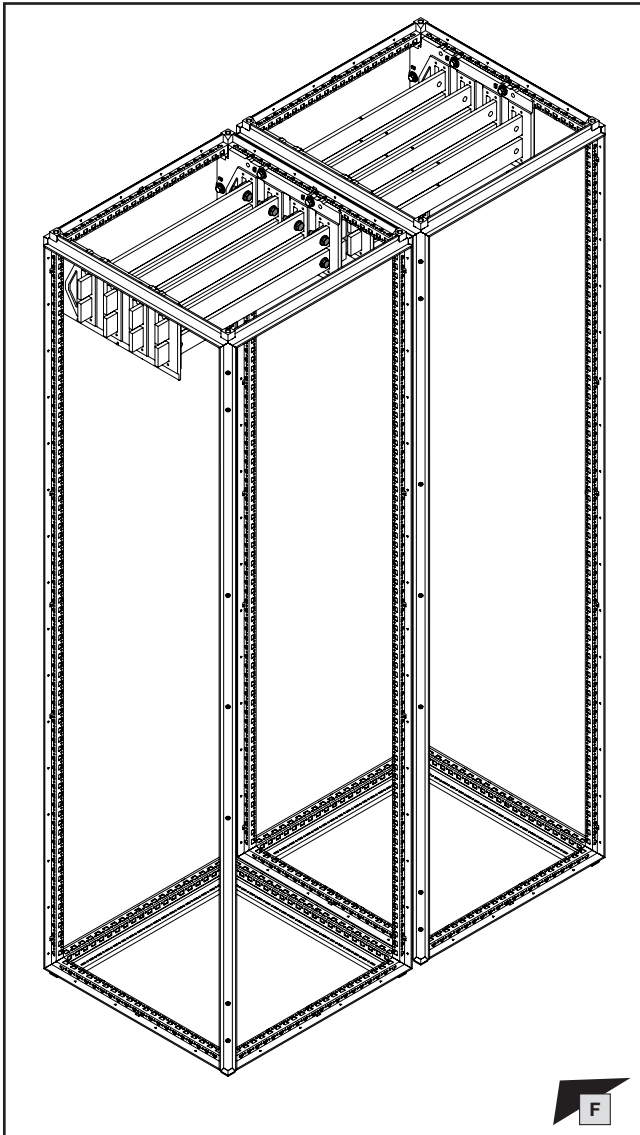
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4. Montage Hauptsammelschienensystem 4. Assembling the main busbar system 4. Montage des jeux de barres principaux

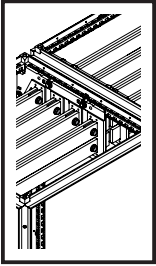


- 4.23 Anreihung 2 Sammelschienen 50x10 im Dachbereich
4.23 Baying 2 busbars 50x10 in the roof section
4.23 Juxtaposition de 2 jeux de barres 50x10 sous le toit



Hinweis / Note / Remarque (A)

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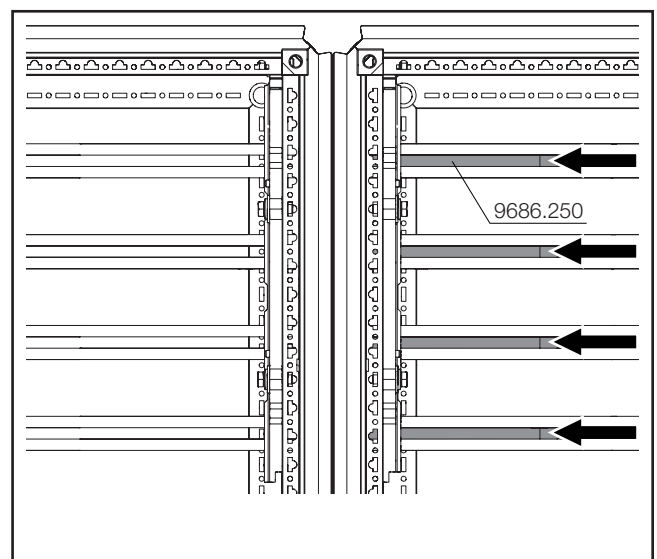
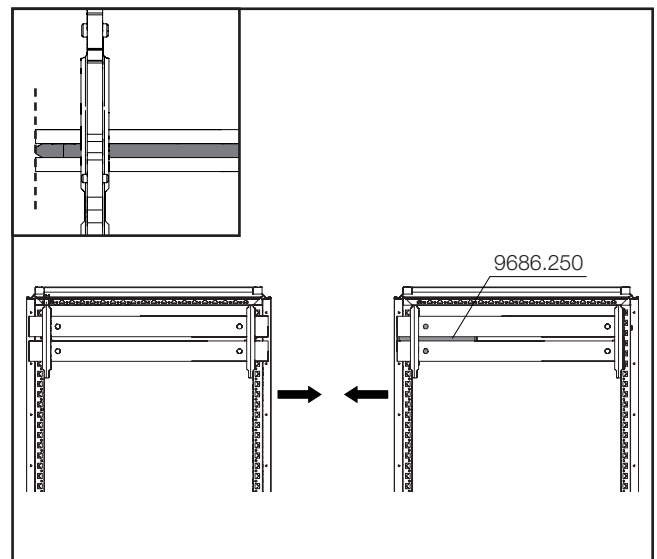
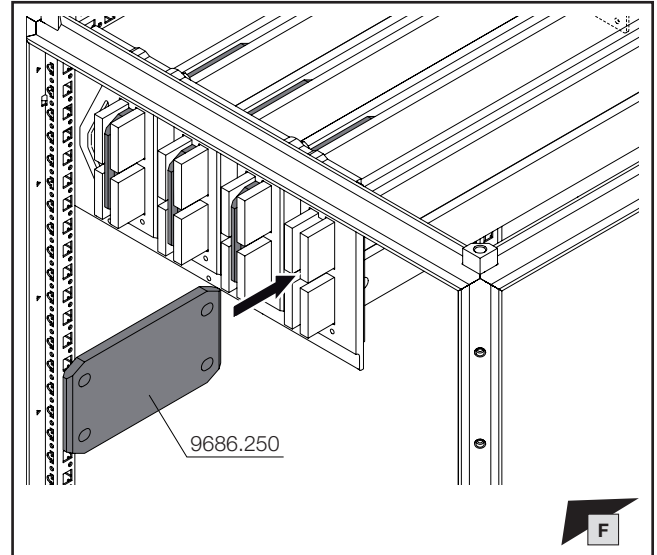
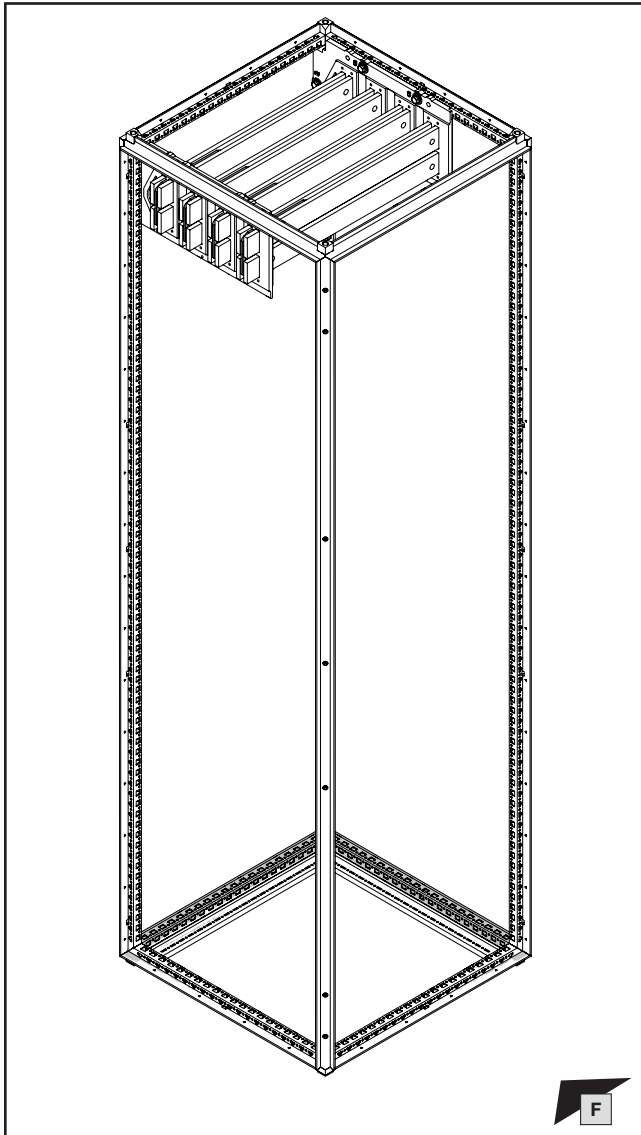
4. Montage Hauptsammelschienensystem

4. Assembling the main busbar system

4. Montage des jeux de barres principaux



4.24 Anreihung 4 Sammelschienen 50x10 im Dachbereich
 4.24 Baying 4 busbars 50x10 in the roof section
 4.24 Juxtaposition de 4 jeux de barres 50x10 sous le toit

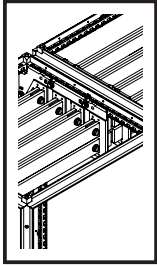


Hinweis / Note / Remarque

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Pour déplacer les éléments de jonction longitudinaux, desserrer éventuellement les liaisons vissées ou les composants vissés à proximité, puis les resserrer à nouveau avec les couples de serrage prescrits après le montage !



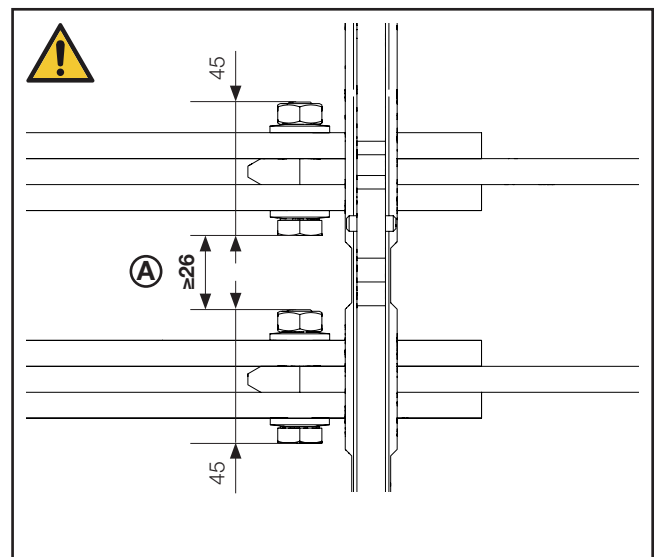
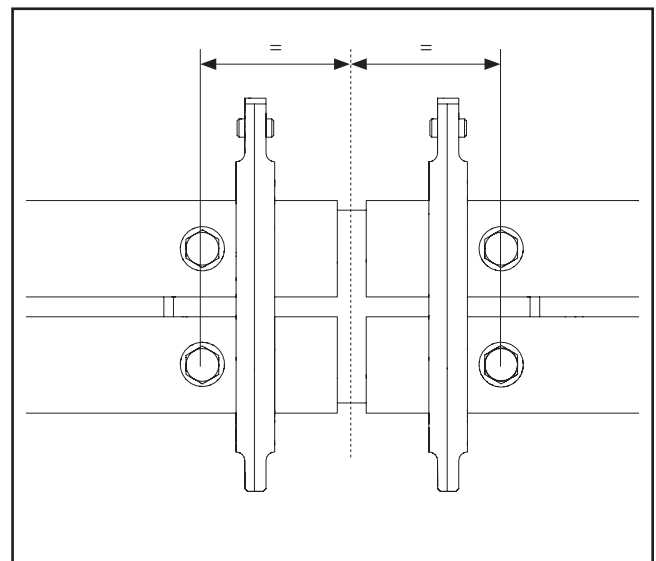
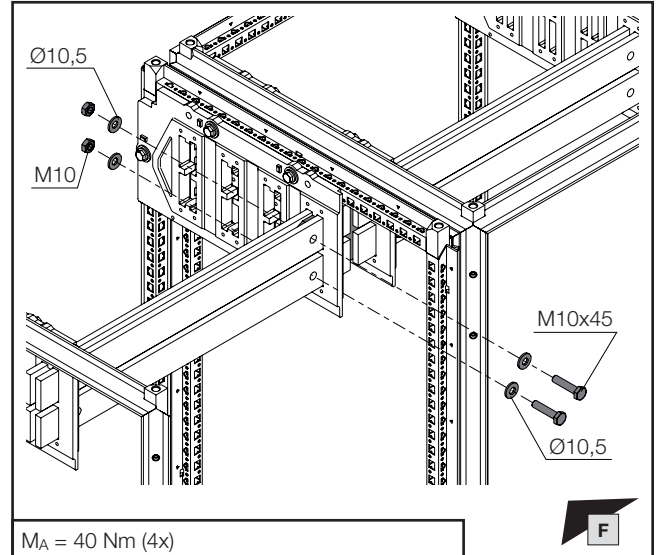
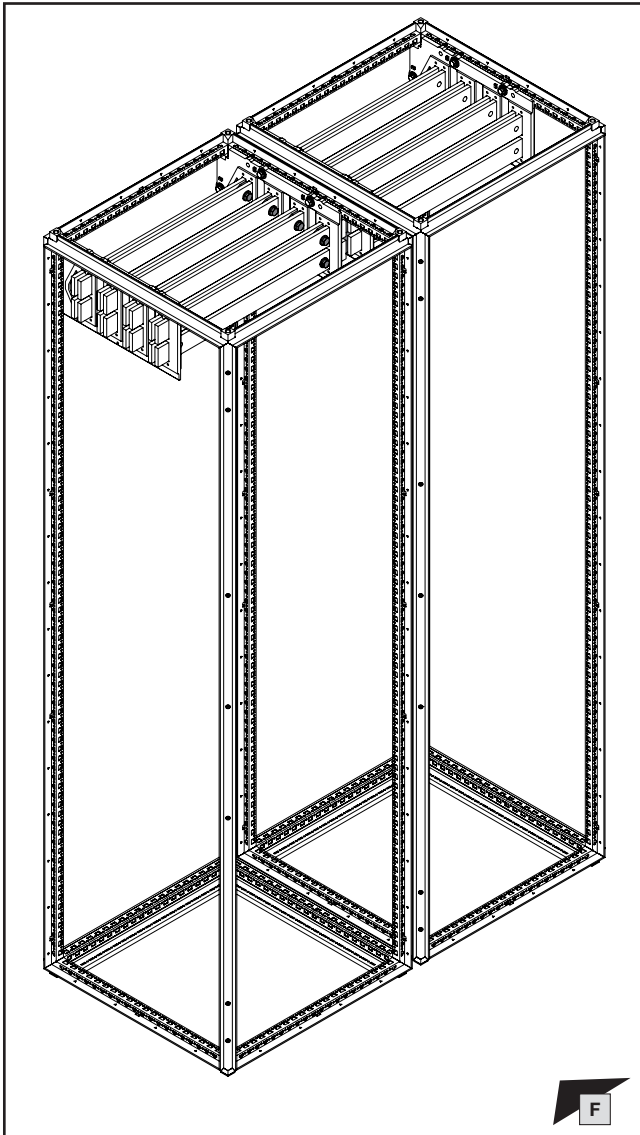
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4. Montage Hauptsammelschienensystem 4. Assembling the main busbar system 4. Montage des jeux de barres principaux

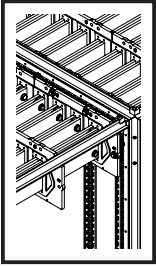


4.24 Anreihung 4 Sammelschienen 50x10 im Dachbereich
4.24 Baying 4 busbars 50x10 in the roof section
4.24 Juxtaposition de 4 jeux de barres 50x10 sous le toit



Hinweis / Note / Remarque (A)

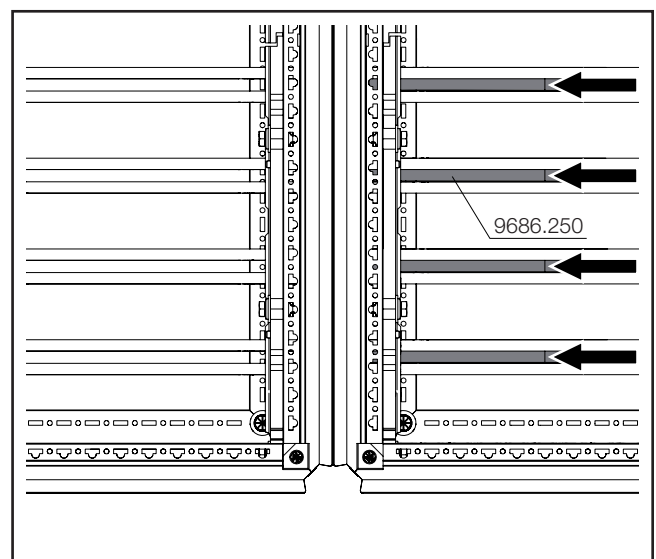
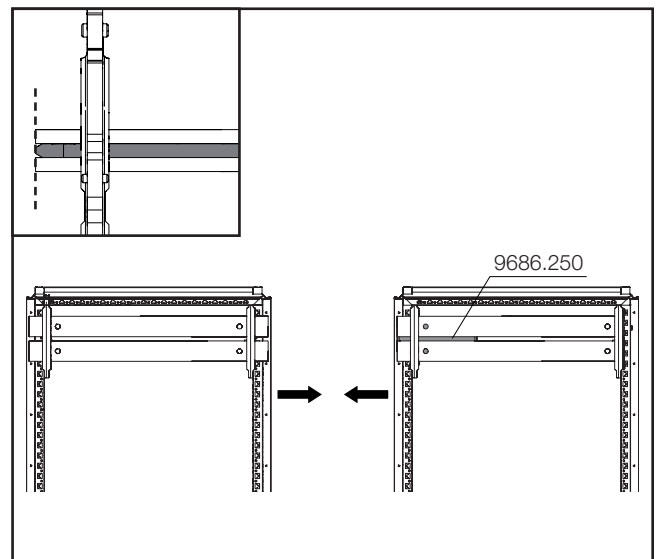
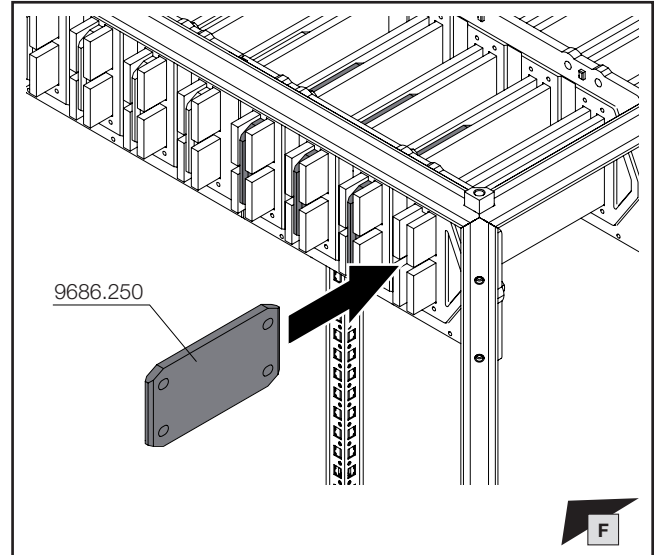
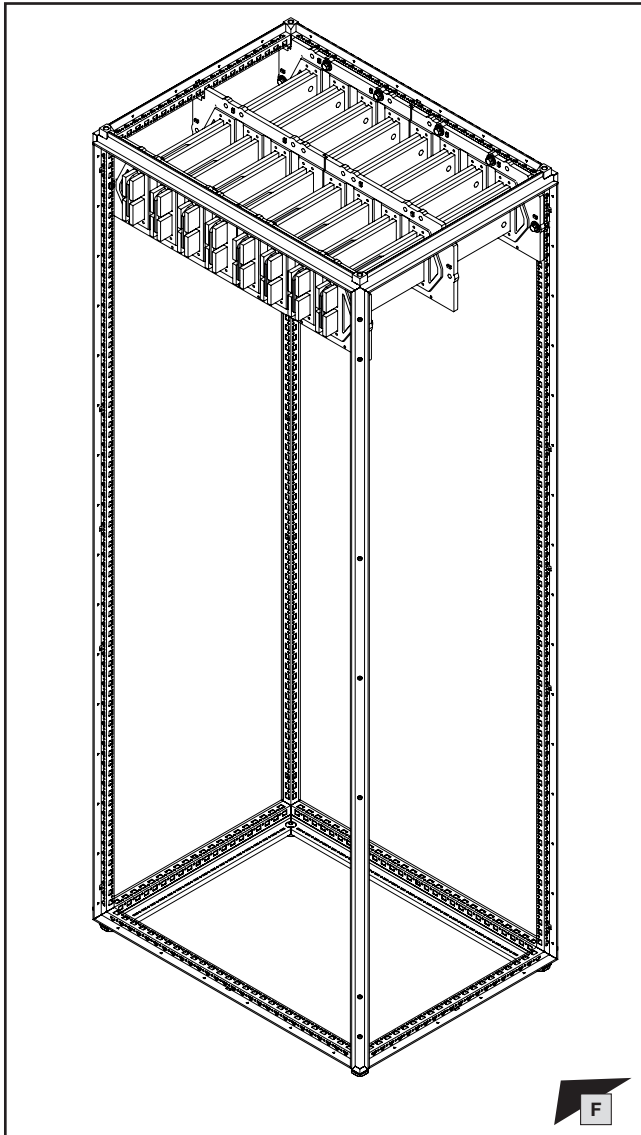
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4. Montage Hauptsammelschienensystem 4. Assembling the main busbar system 4. Montage des jeux de barres principaux



4.25 Anreihung 2x 4 Sammelschienen 50x10 im Dachbereich
4.25 Baying 2x 4 busbars 50x10 in the roof section
4.25 Juxtaposition de 2x 4 jeux de barres 50x10 sous le toit

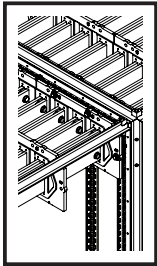


Hinweis / Note / Remarque

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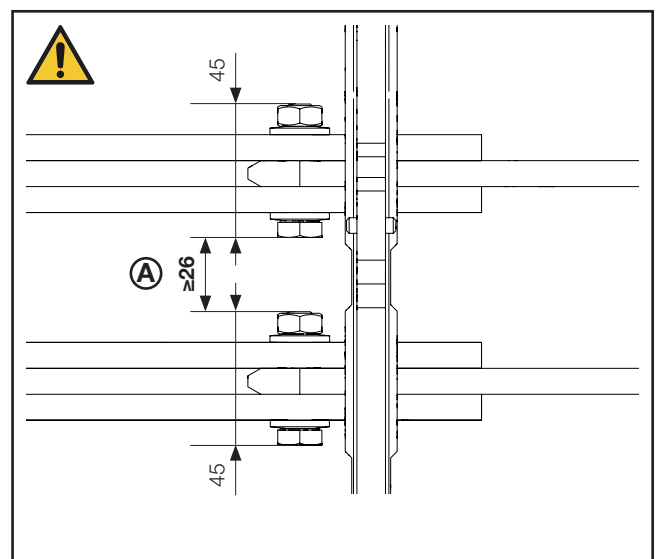
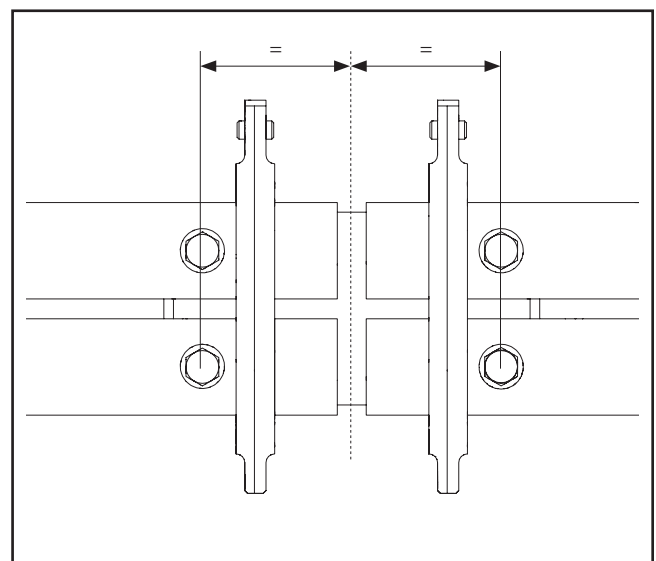
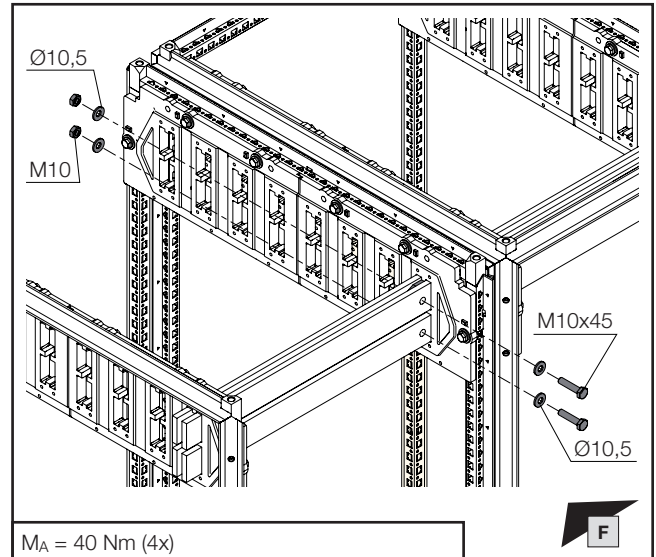
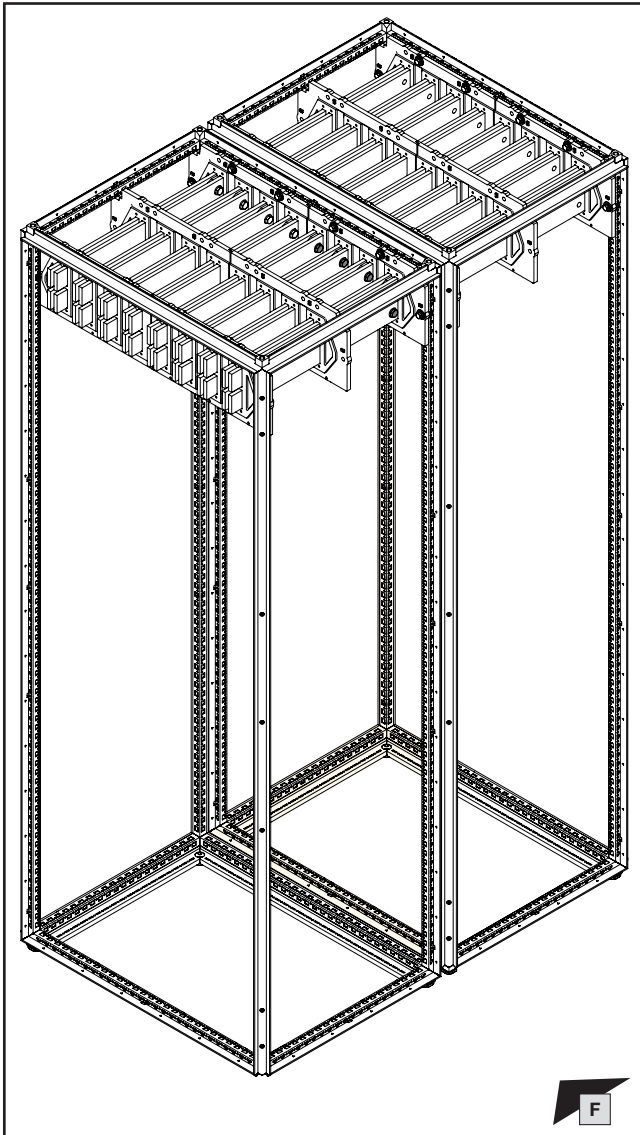
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4. Montage Hauptsammelschienensystem 4. Assembling the main busbar system 4. Montage des jeux de barres principaux

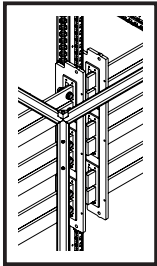


4.25 Anreihung 2x 4 Sammelschienen 50x10 im Dachbereich
4.25 Baying 2x 4 busbars 50x10 in the roof section
4.25 Juxtaposition de 2x 4 jeux de barres 50x10 sous le toit



Hinweis / Note / Remarque **A**

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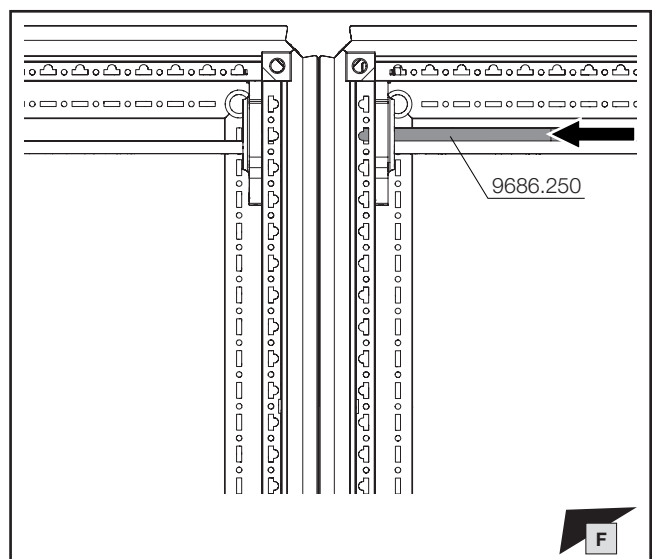
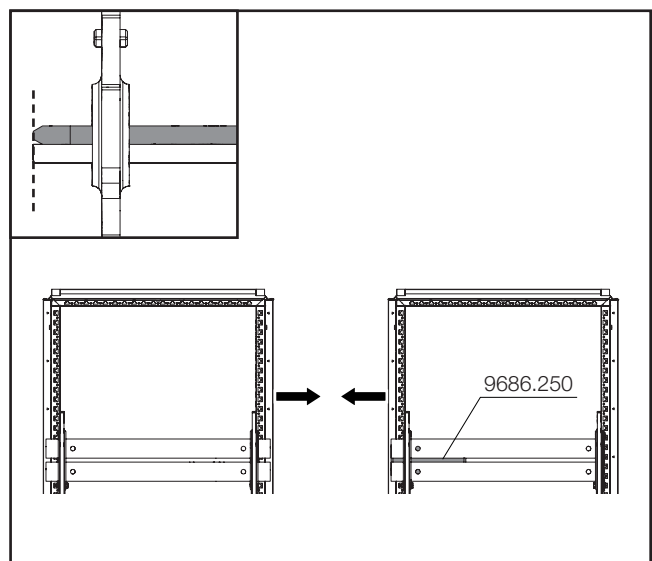
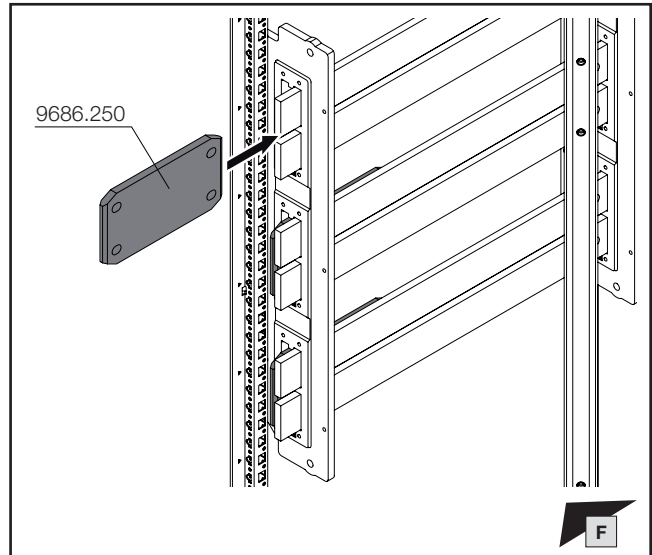
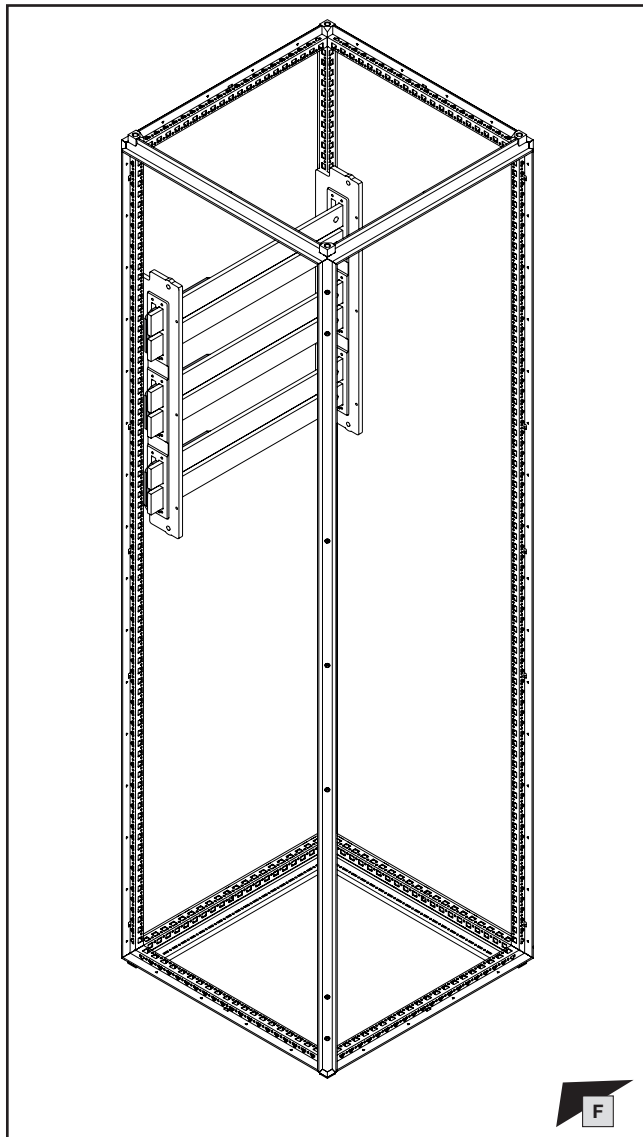
4. Montage Hauptsammelschienensystem

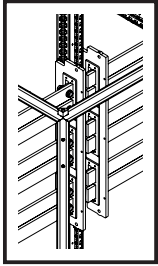
4. Assembling the main busbar system

4. Montage des jeux de barres principaux



- 4.26 Anreihung 2 Sammelschienen im Rückbereich
 4.26 Baying 2 busbars in the rear section
 4.26 Juxtaposition de 2 jeux de barres dans la partie arrière





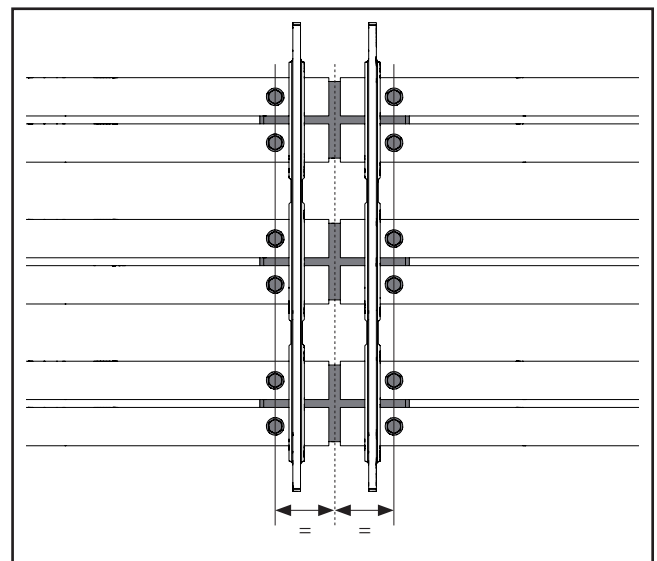
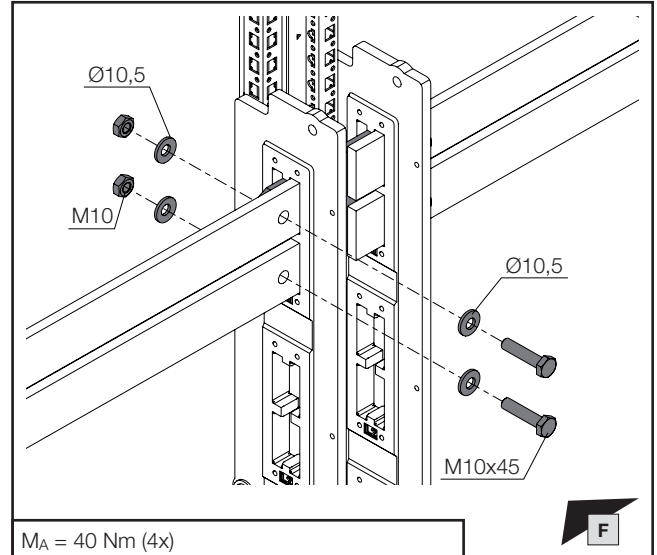
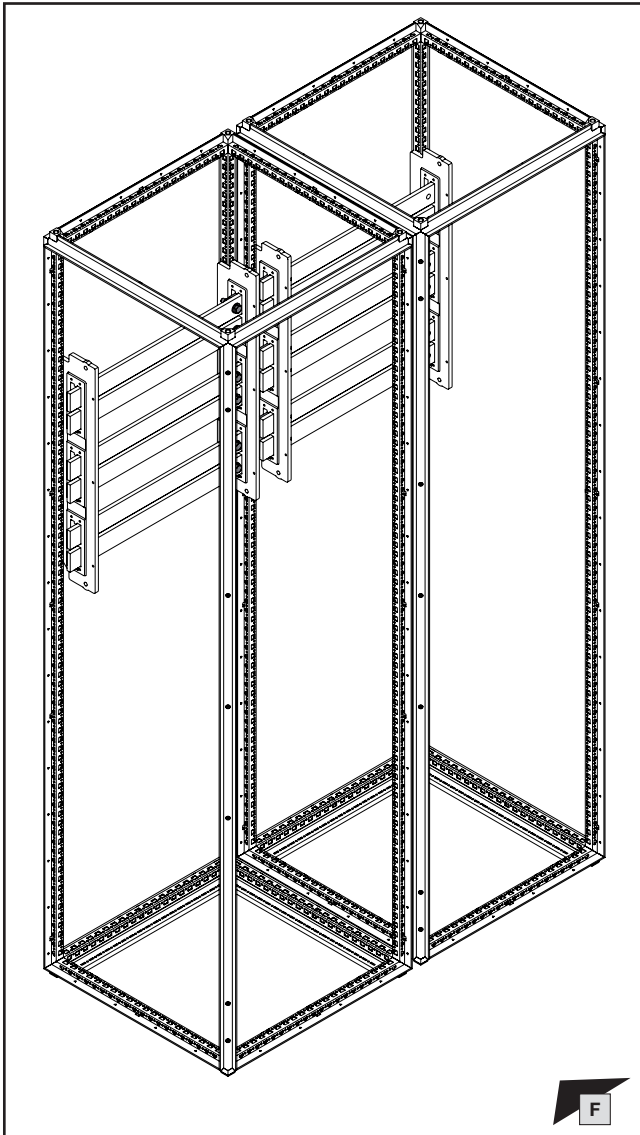
SW16/
SW17

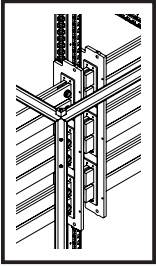
DE EN FR

4. Montage Hauptsammelschienensystem 4. Assembling the main busbar system 4. Montage des jeux de barres principaux



- 4.26 Anreihung 2 Sammelschienen im Rückbereich
4.26 Baying 2 busbars in the rear section
4.26 Juxtaposition de 2 jeux de barres dans la partie arrière





4. Montage Hauptsammelschienensystem

4. Assembling the main busbar system

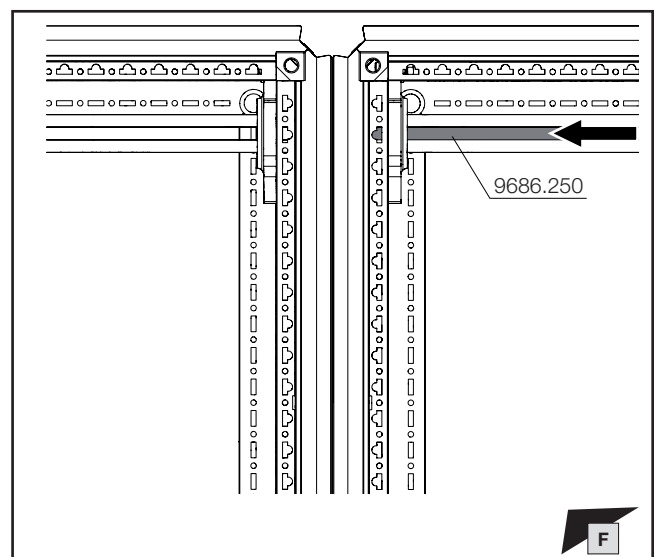
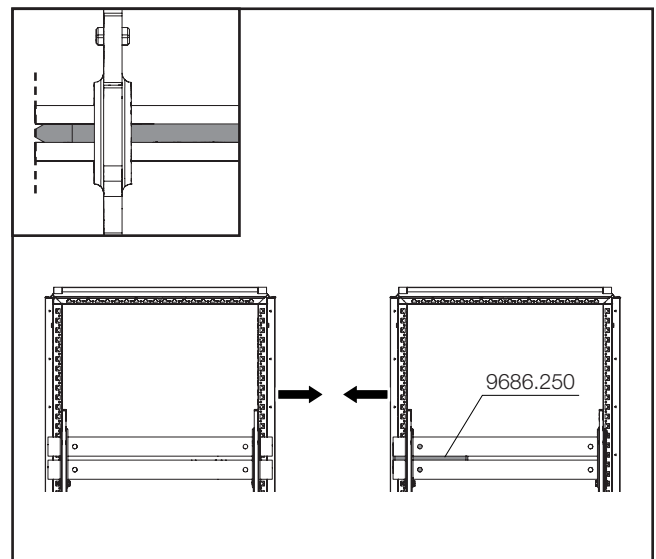
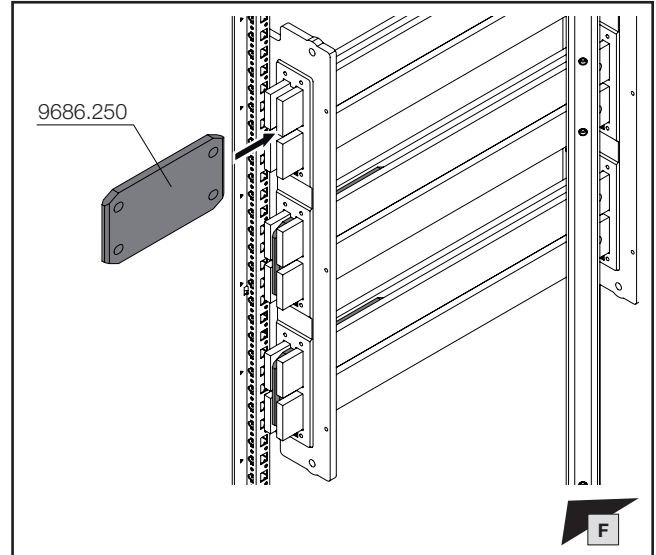
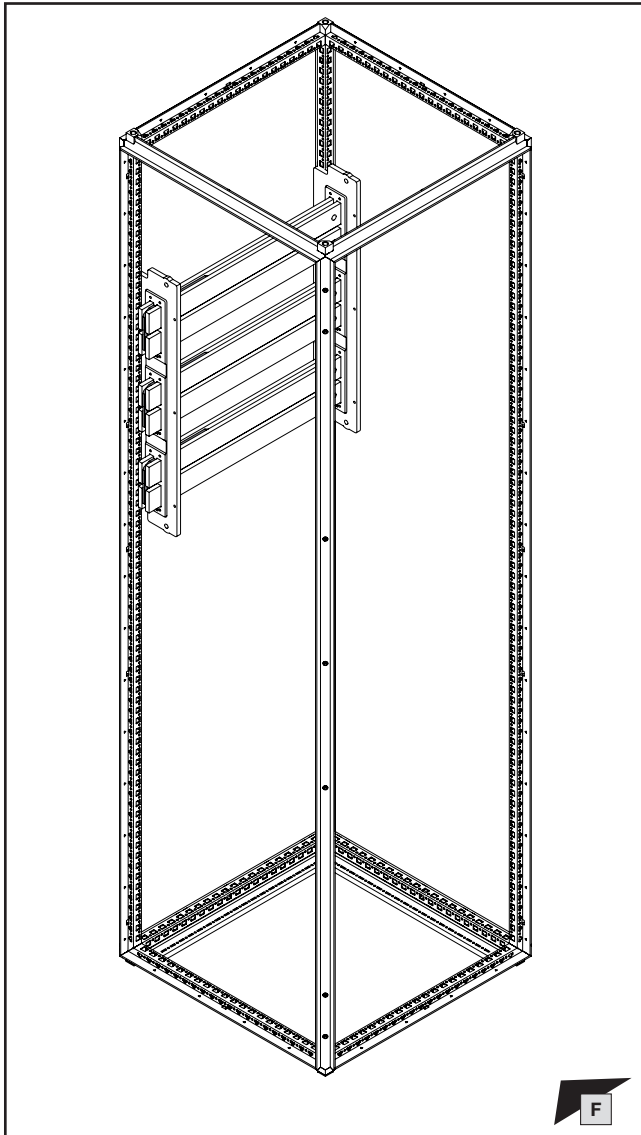
4. Montage des jeux de barres principaux



4.27 Anreihung 4 Sammelschienen im Rückbereich

4.27 Baying 4 busbars in the rear section

4.27 Juxtaposition de 4 jeux de barres dans la partie arrière

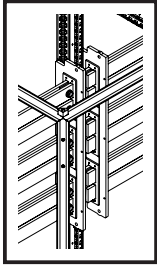


Hinweis / Note / Remarque

Gegebenenfalls Schraubverbindungen oder festgeschraubte Komponenten in unmittelbarer Nähe zum Verschieben der Längsverbinder lockern und nach der Montage wieder mit vorgegebenen Drehmomente festziehen!

If necessary, loosen screw connections or screw-fastened components in the immediate vicinity to move the longitudinal connectors, then re-tighten with the specified torques when fully assembled!

Pour déplacer les éléments de jonction longitudinaux, desserrer éventuellement les liaisons vissées ou les composants vissés à proximité, puis les resserrer à nouveau avec les couples de serrage prescrits après le montage !



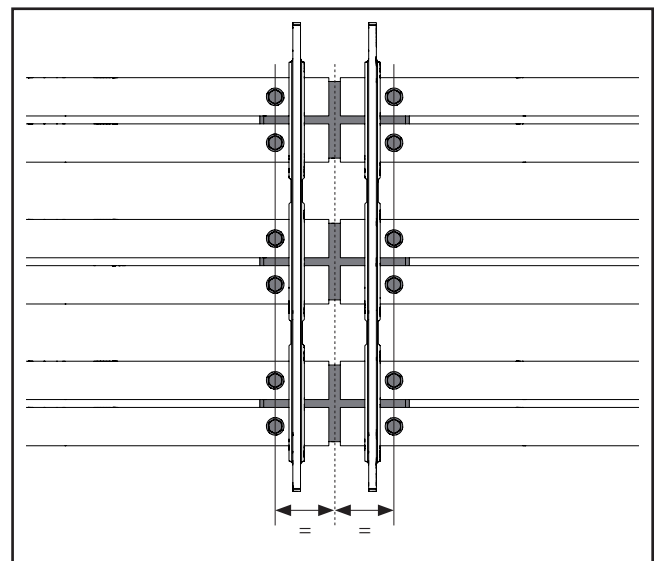
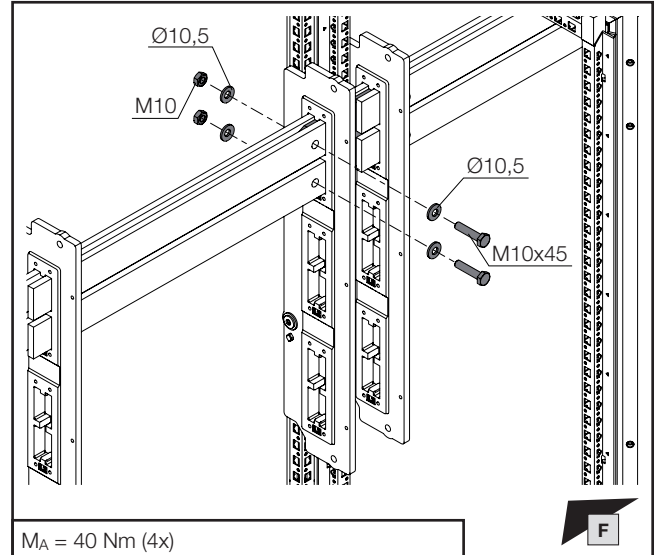
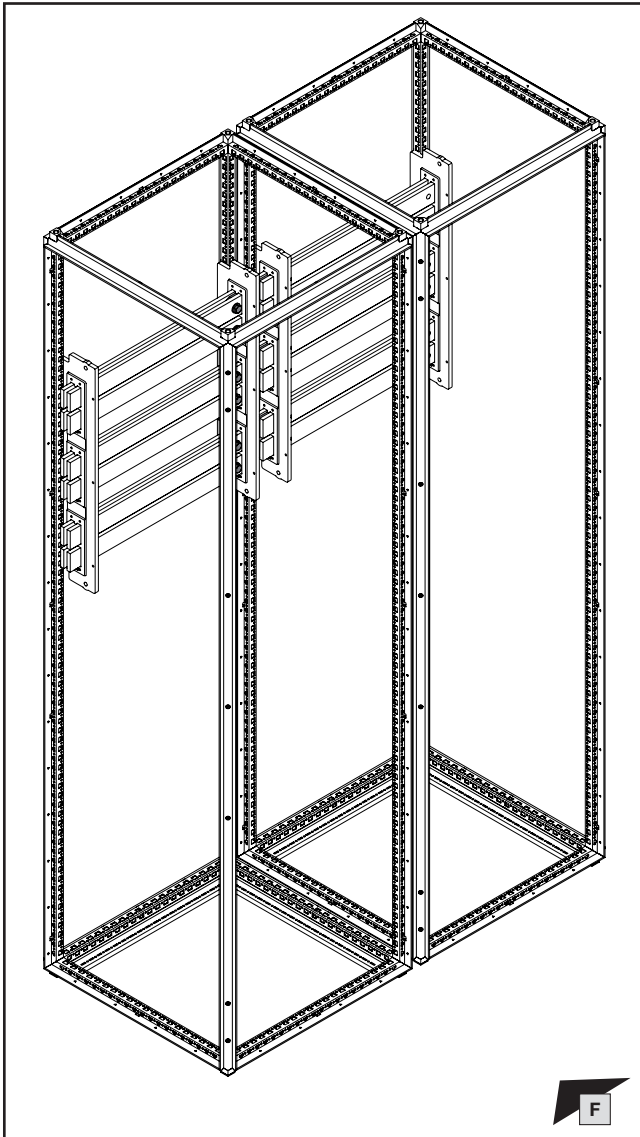
SW16/
SW17

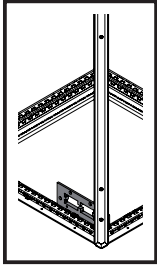
DE EN FR

4. Montage Hauptsammelschienensystem 4. Assembling the main busbar system 4. Montage des jeux de barres principaux



- 4.27 Anreihung 4 Sammelschienen im Rückbereich
4.27 Baying 4 busbars in the rear section
4.27 Juxtaposition de 4 jeux de barres dans la partie arrière

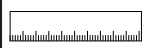




SW13



mm



DE EN FR

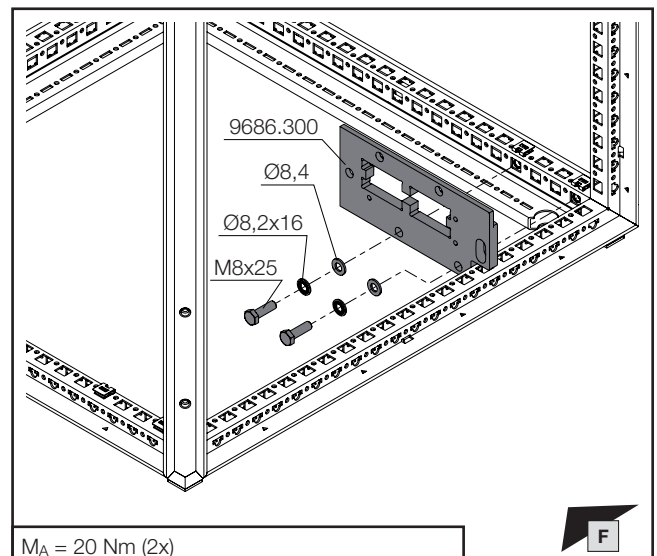
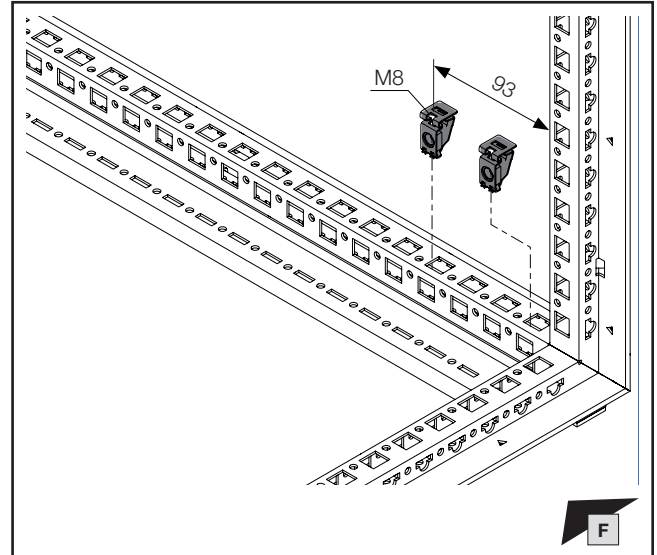
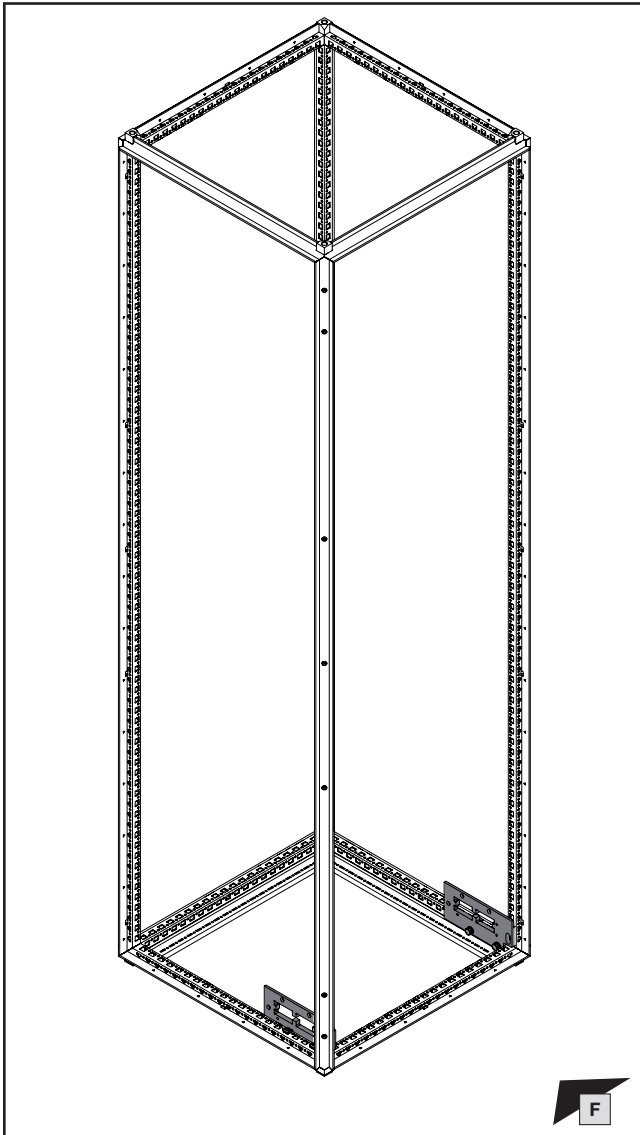
5. Montage N-Sammelschienensystem

5. Assembling the N busbar system

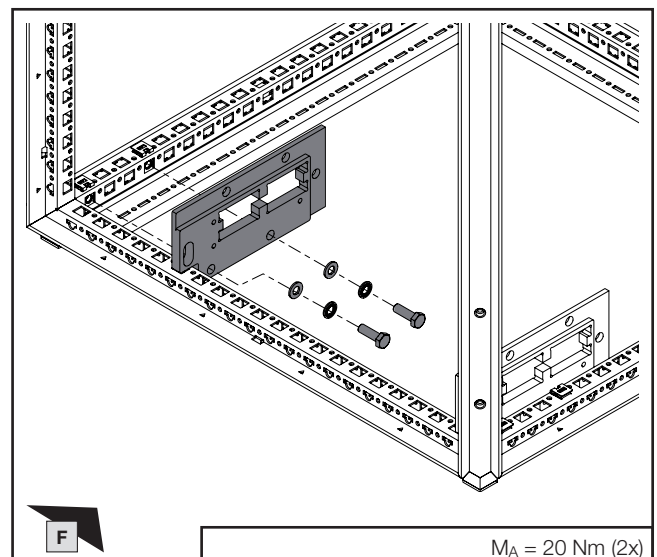
5. Montage des jeux de barres Neutre



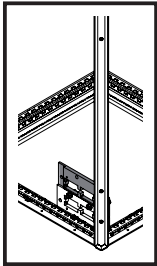
- 5.1 Montage Sammelschienenhalter N unten (4x 50x10)
- 5.1 Fitting the N busbar supports, bottom (4x 50x10)
- 5.1 Montage des supports de jeux de barres Neutre en bas (4x 50x10)



$M_A = 20 \text{ Nm (2x)}$



$M_A = 20 \text{ Nm (2x)}$



SW13



DE EN FR

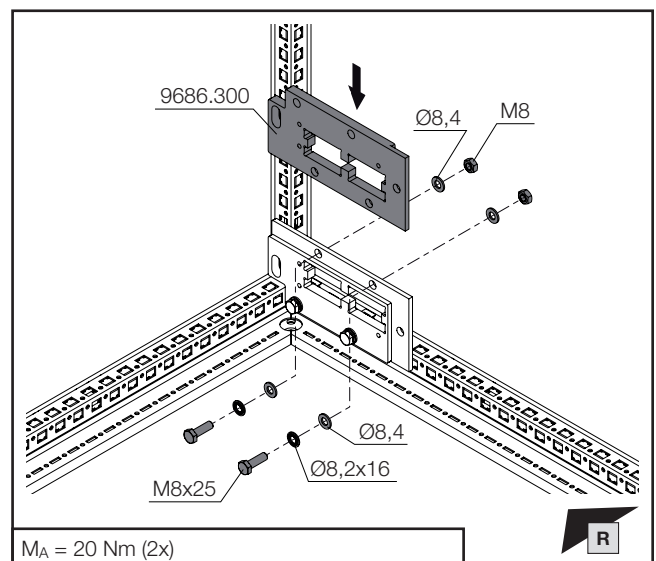
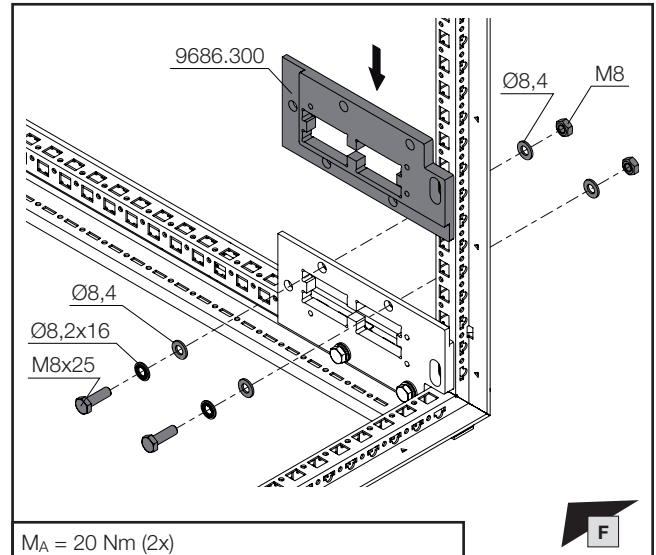
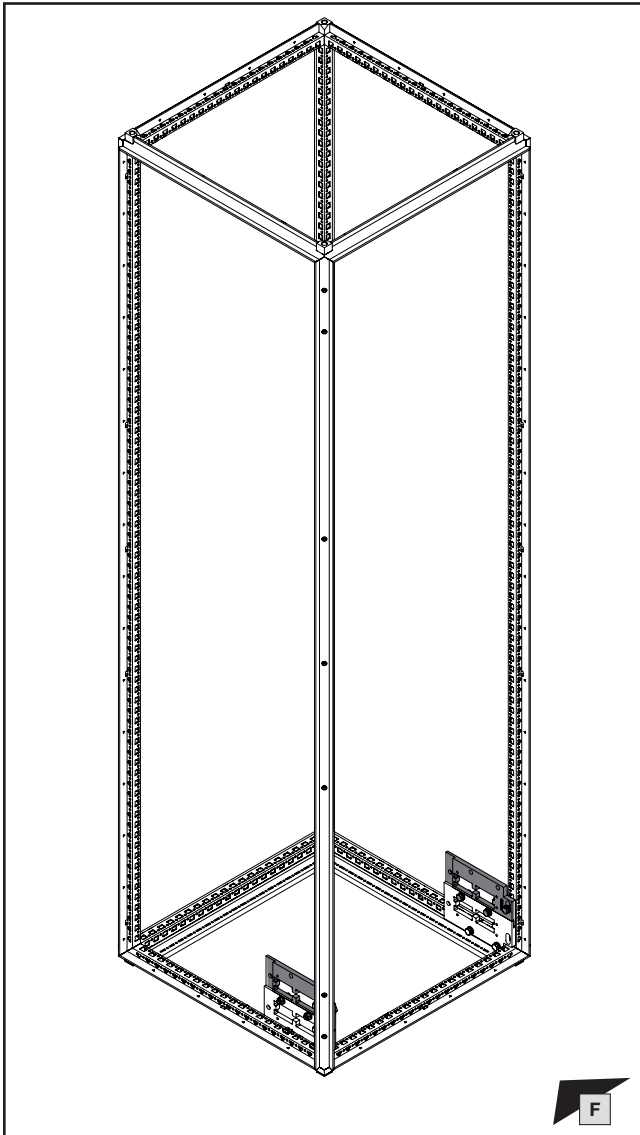
5. Montage N-Sammelschienensystem

5. Assembling the N busbar system

5. Montage des jeux de barres Neutre



- 5.2 Montage Sammelschienenhalter N unten (2x 4x 50x10)
 5.2 Fitting the N busbar supports, bottom (2x 4x 50x10)
 5.2 Montage des supports de jeux de barres Neutre en bas (2x 4x 50x10)



Zusätzlich benötigt:
Also required:
Accessoires indispensables :

9686.300

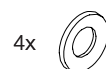


4x



2x

M8x25 (ISO 4017)



4x



6x

Ø8,4 (ISO 7089)



4x

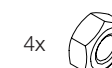


2x

Ø8,2x16 (NF E 25511)

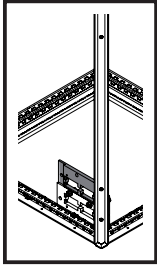


4x



4x

M8 (ISO 4032)



SW13

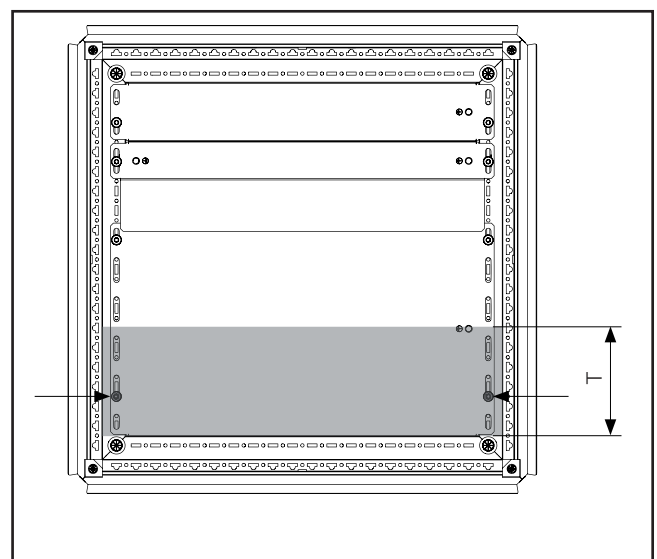
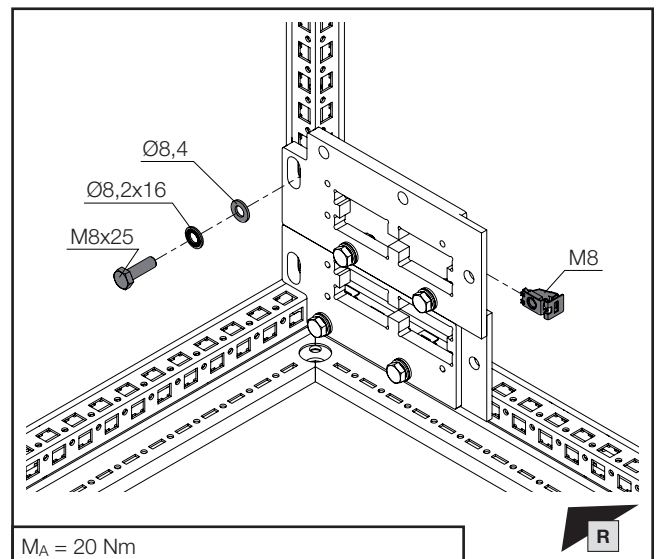
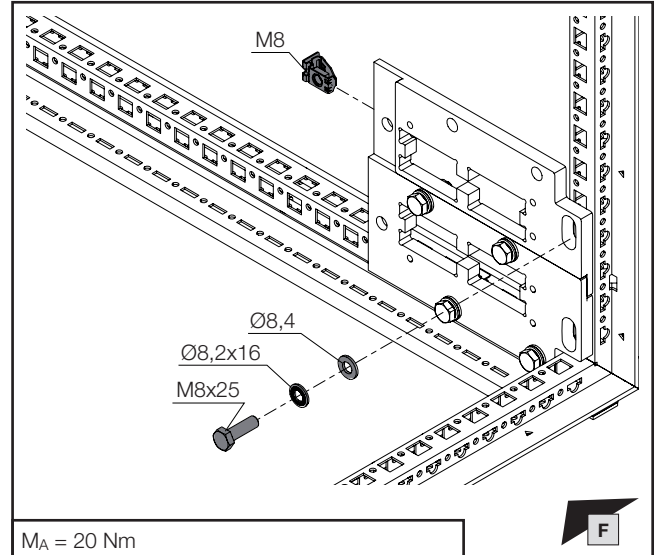
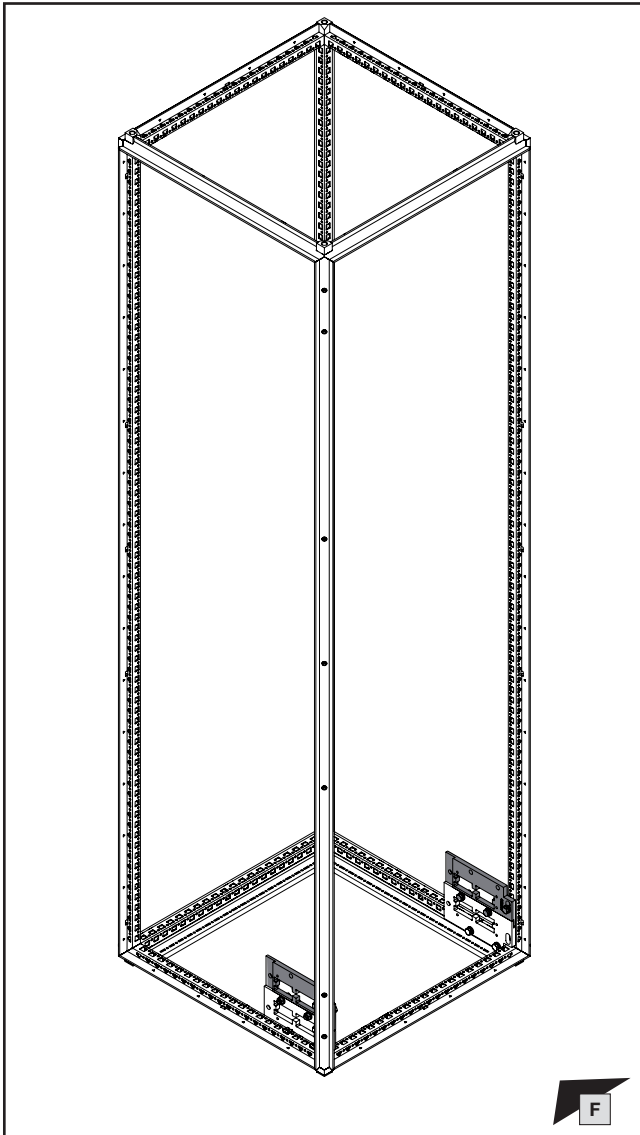


DE EN FR

5. Montage N-Sammelschienensystem 5. Assembling the N busbar system 5. Montage des jeux de barres Neutre



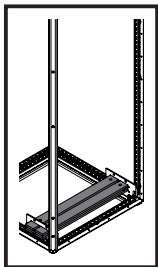
- 5.2 Montage Sammelschienenhalter N unten (2x 4x 50x10)
5.2 Fitting the N busbar supports, bottom (2x 4x 50x10)
5.2 Montage des supports de jeux de barres Neutre en bas (2x 4x 50x10)



Hinweis / Note / Remarque

Befestigungsschrauben der Bodenbleche im Bereich der Sperrfläche T = 140 mm vor dem Einlegen der Cu-Sammelschienen bei Anreihung der Schränke entfernen.

Remove the mounting screws from gland plates in the vicinity of the restricted area T = 140 mm before inserting the Cu busbars when baying enclosures.
Retirer les vis de fixation des plaques passe-câbles au niveau de la zone critique P = 140 mm avant d'installer le jeu de barre en cuivre lors de la juxtaposition des armoires.



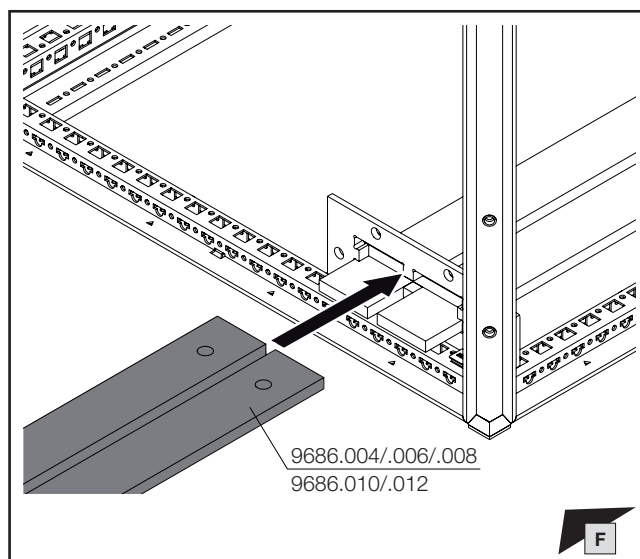
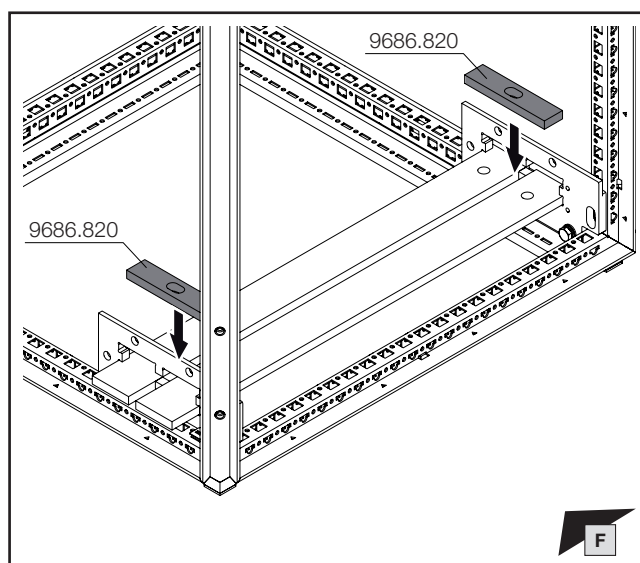
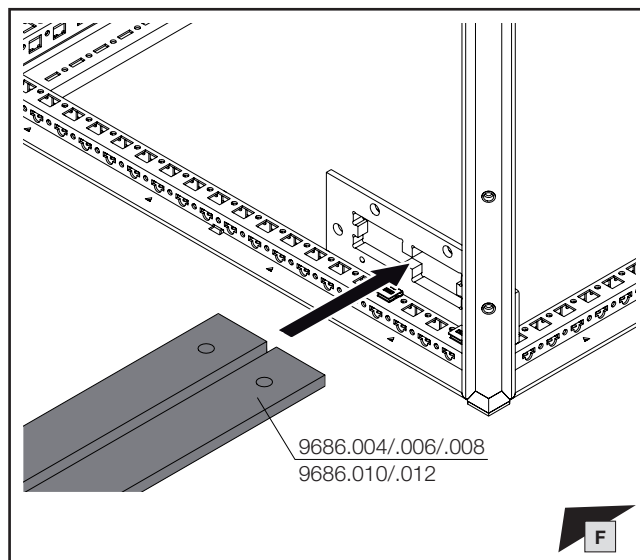
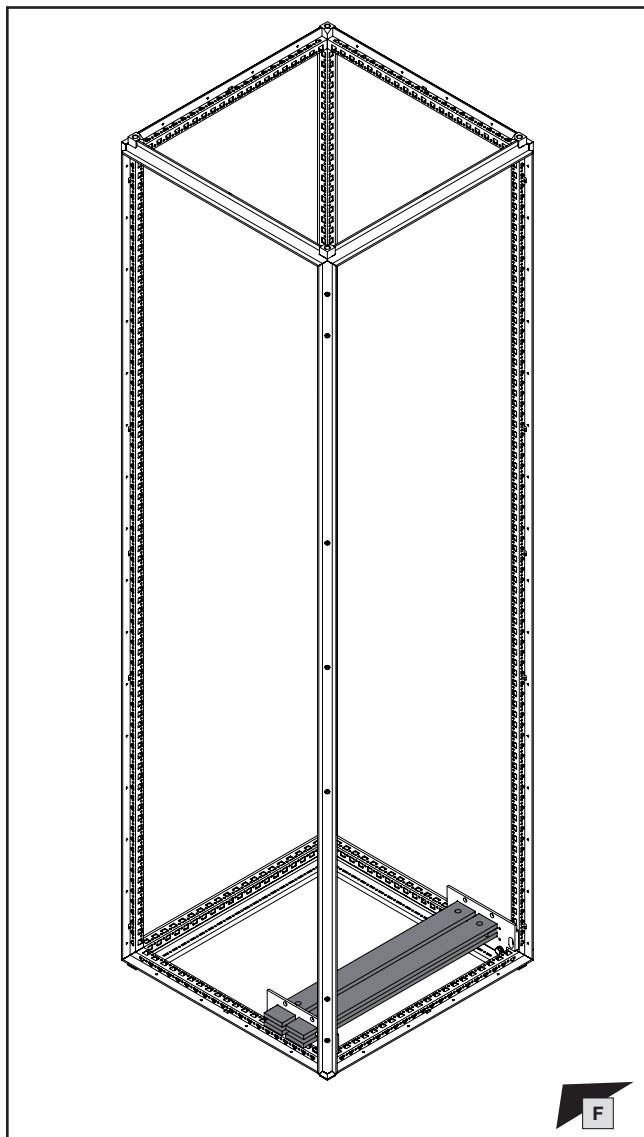
5. Montage N-Sammelschienensystem

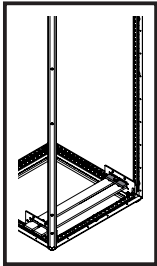
5. Assembling the N busbar system

5. Montage des jeux de barres Neutre



- 5.3 Einlegen der E-Cu Sammelschienen N unten (4x 50x10)
 5.3 Inserting the E-Cu N busbars, bottom (4x 50x10)
 5.3 Insertion des jeux de barres E-Cu Neutre en bas (4x 50x10)





SW16/
SW17

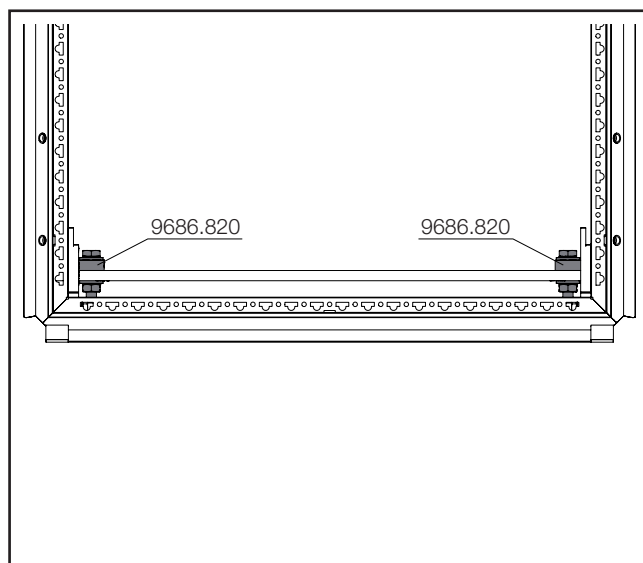
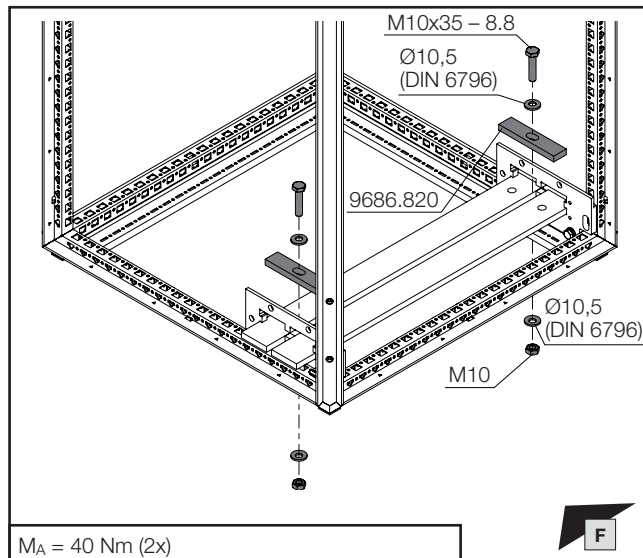
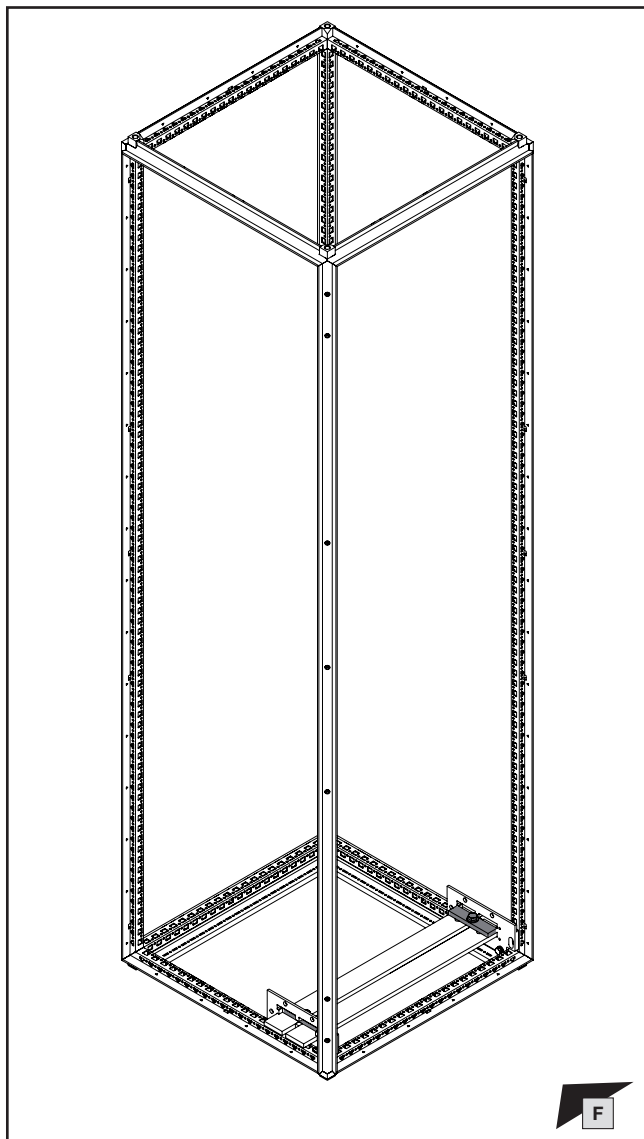


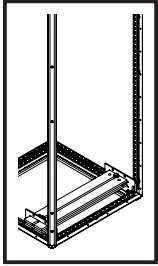
DE EN FR

5. Montage N-Sammelschienensystem 5. Assembling the N busbar system 5. Montage des jeux de barres Neutre



- 5.4 Transportsicherung der Sammelschienen N (2x 50x10) und/oder Endausbau Einzelfeld
5.4 Shipping brace for N busbars (2x 50x10) and/or ultimate configuration of single section
5.4 Blocage des jeux de barres Neutre (2x 50x10) et/ou montage final sur cellule isolée pour le transport





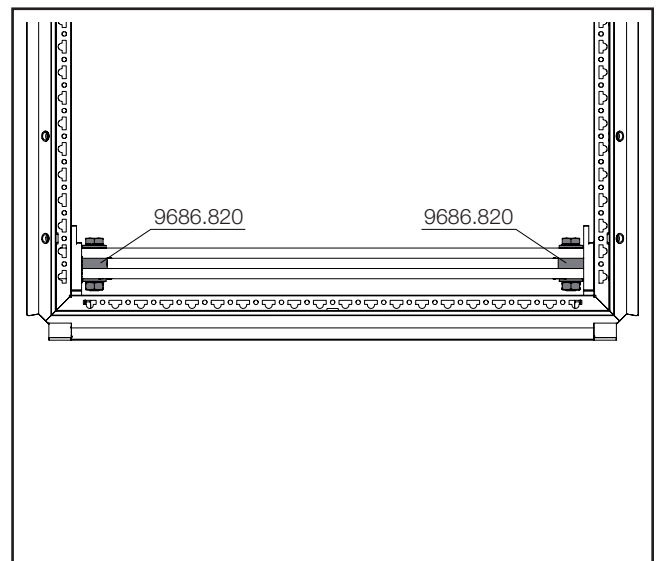
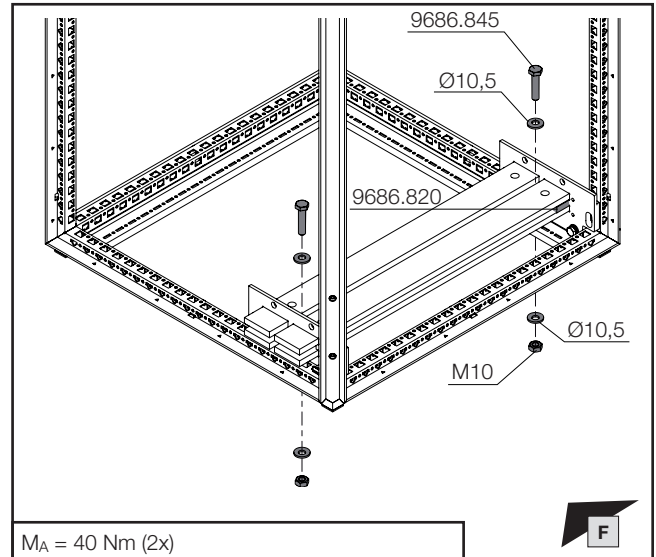
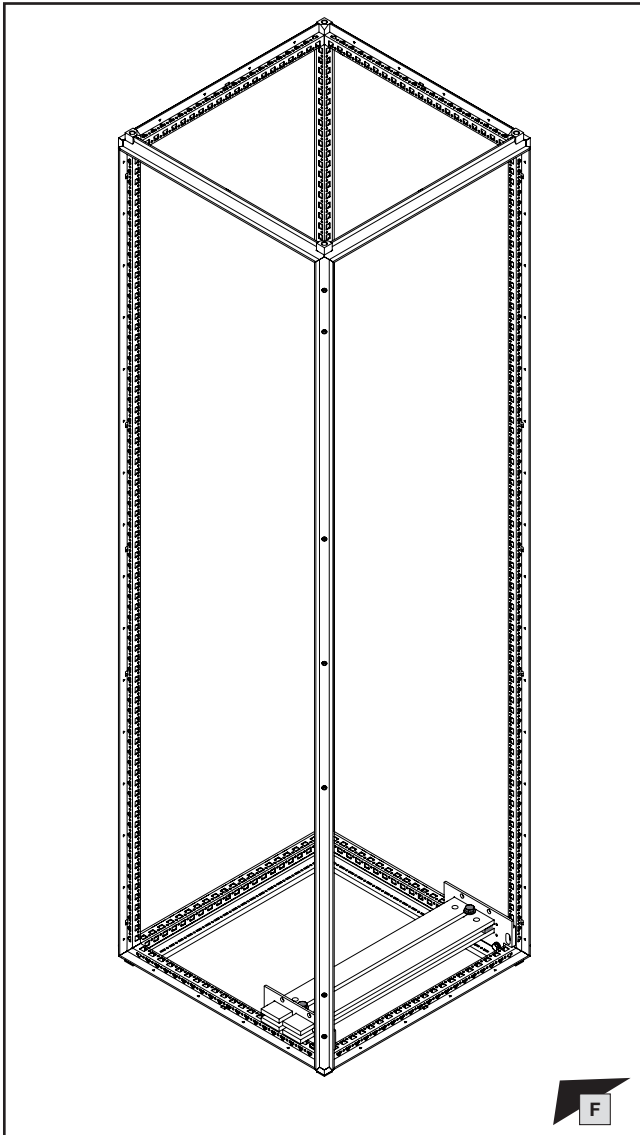
SW16/
SW17

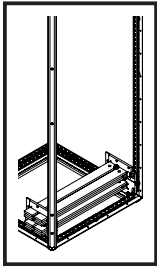
DE EN FR

5. Montage N-Sammelschienensystem 5. Assembling the N busbar system 5. Montage des jeux de barres Neutre



- 5.5 Transportsicherung der Sammelschienen N (4x 50x10) und/oder Endausbau Einzelfeld
- 5.5 Shipping brace for N busbars (4x 50x10) and/or ultimate configuration of single section
- 5.5 Blocage des jeux de barres Neutre (4x 50x10) et/ou montage final sur cellule isolée pour le transport





SW16/
SW17



DE EN FR

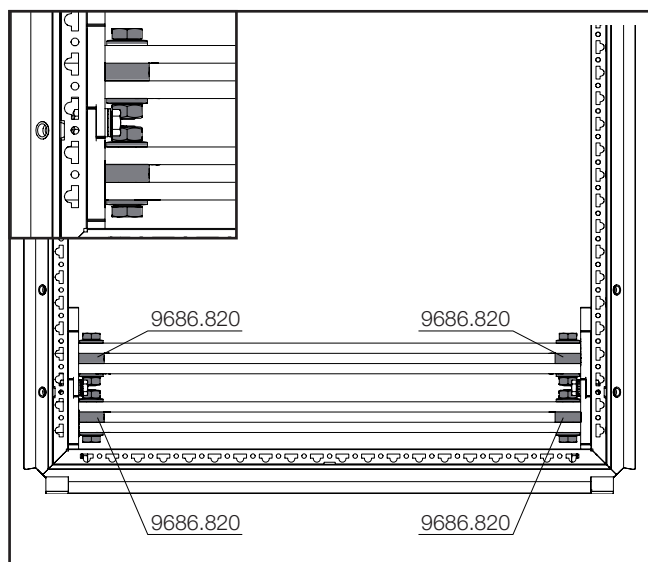
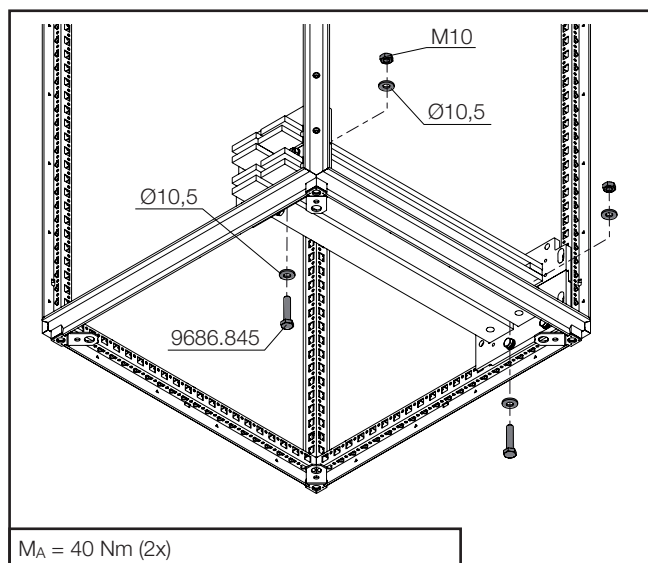
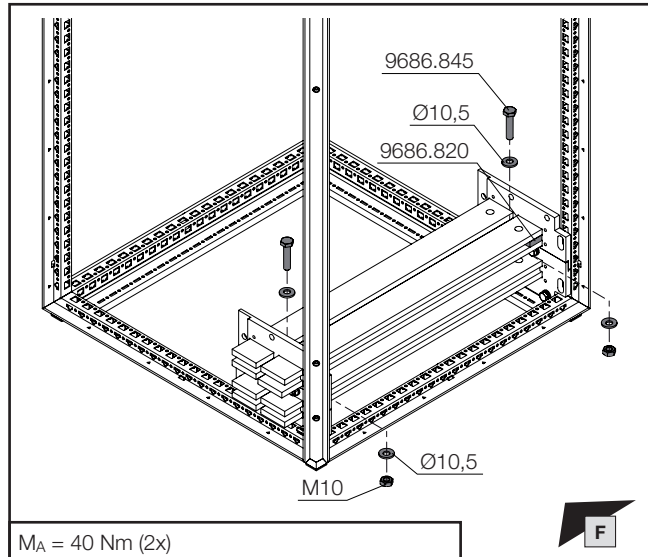
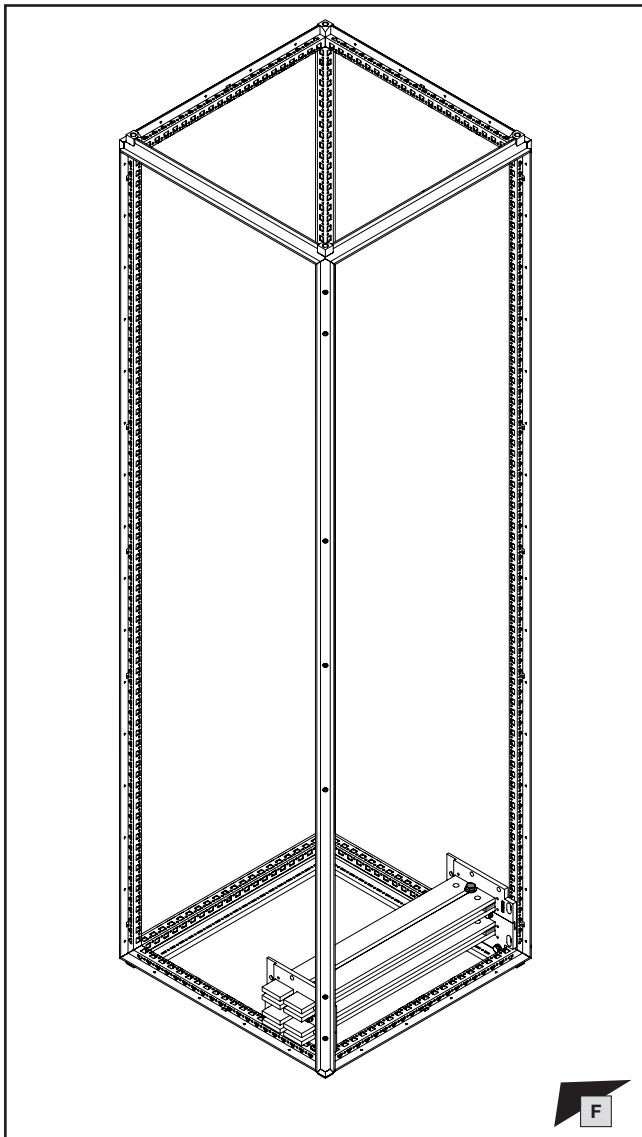
5. Montage N-Sammelschienensystem

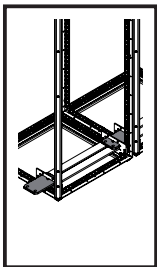
5. Assembling the N busbar system

5. Montage des jeux de barres Neutre



- 5.6 Transportsicherung der Sammelschienen N (2x 4x 50x10) und/oder Endausbau Einzelfeld
- 5.6 Shipping brace for N busbars (2x 4x 50x10) and/or ultimate configuration of single section
- 5.6 Blocage des jeux de barres Neutre (2x 4x 50x10) et/ou montage final sur cellule isolée pour le transport





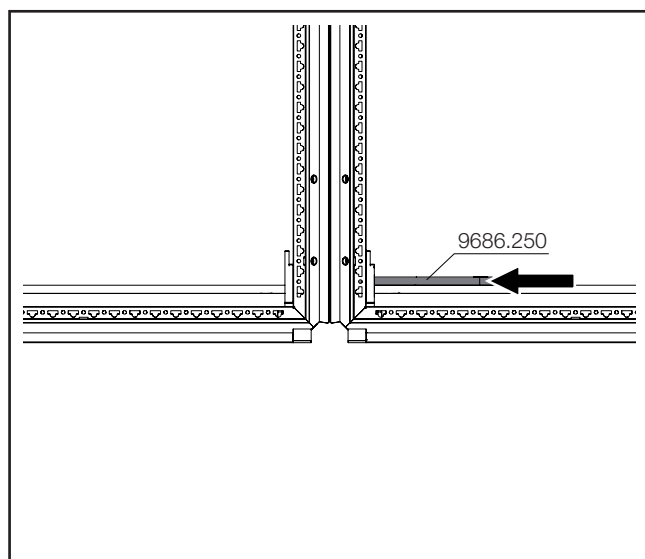
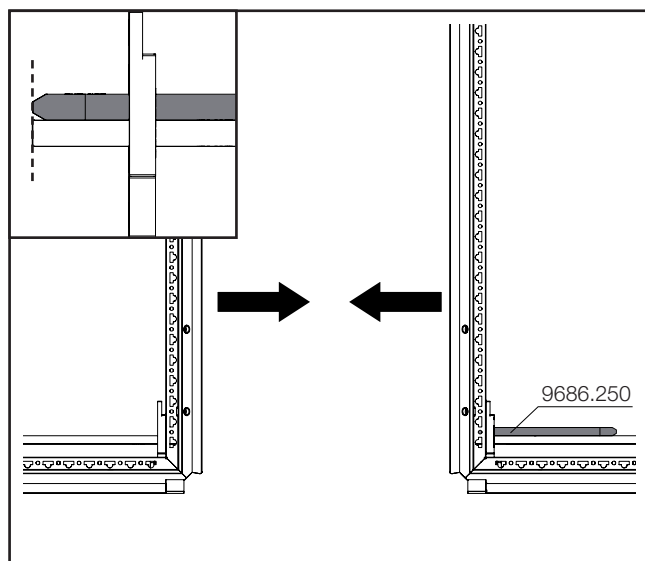
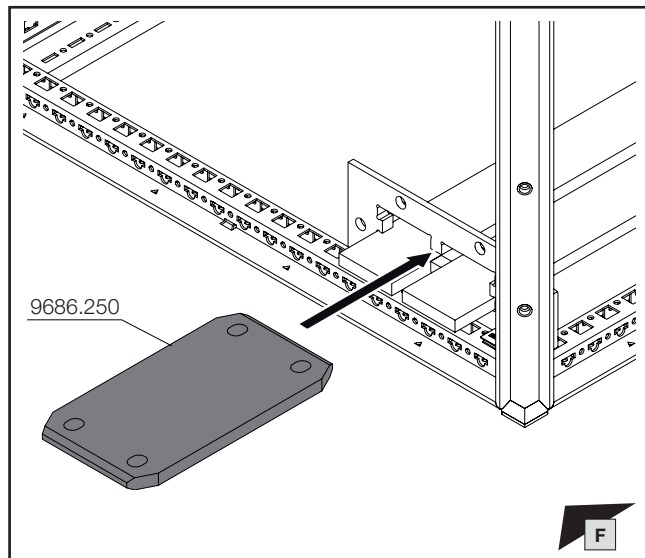
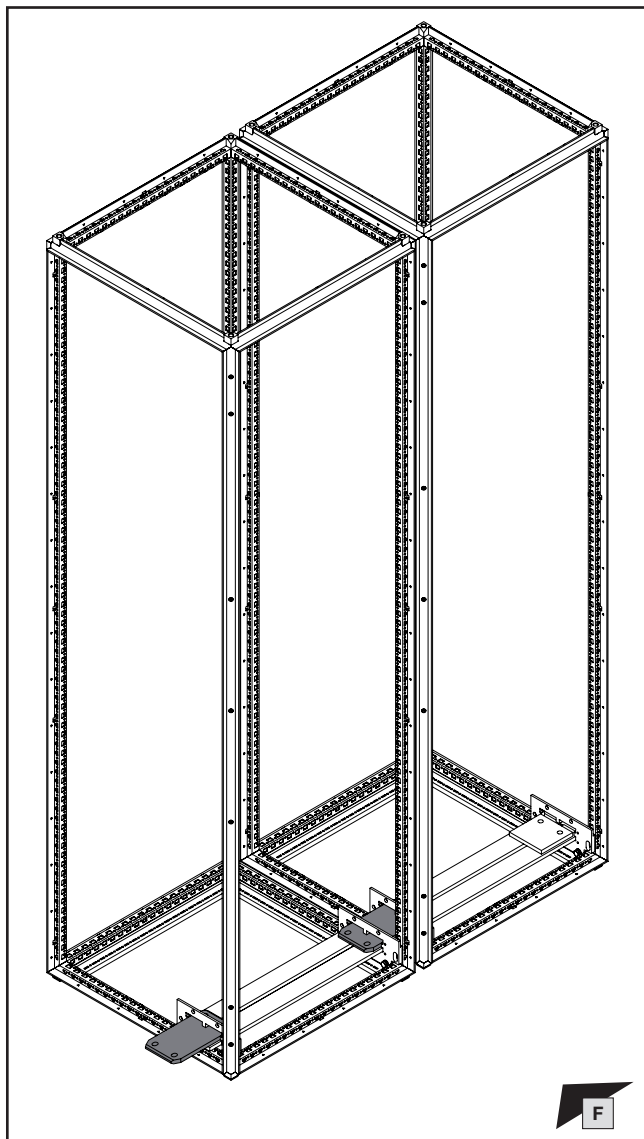
5. Montage N-Sammelschienensystem

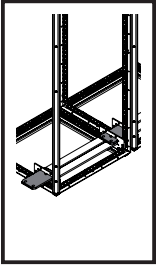
5. Assembling the N busbar system

5. Montage des jeux de barres Neutre



- 5.7 Anreihung der E-Cu Sammelschienen N unten (2x 50x10)
5.7 Baying the E-Cu N busbars, bottom (2x 50x10)
5.7 Juxtaposition des jeux de barres E-Cu Neutre en bas (2x 50x10)





SW16/
SW17



DE EN FR

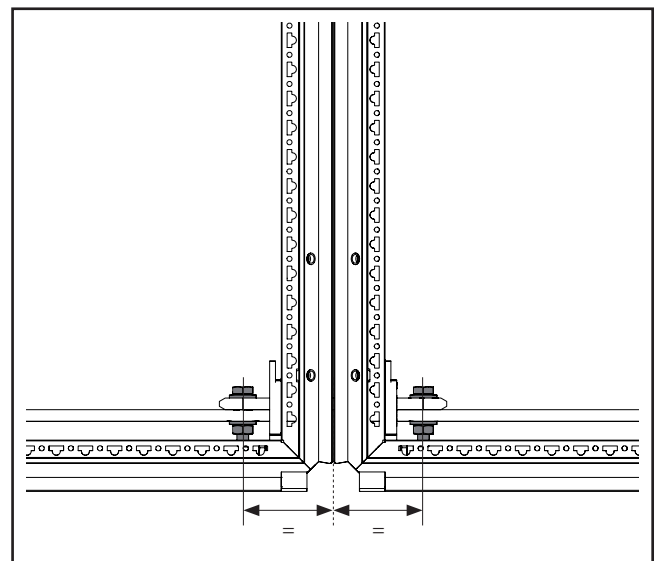
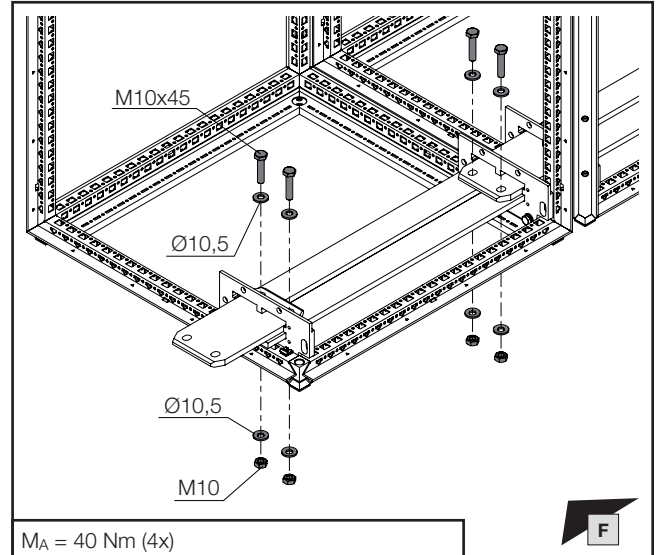
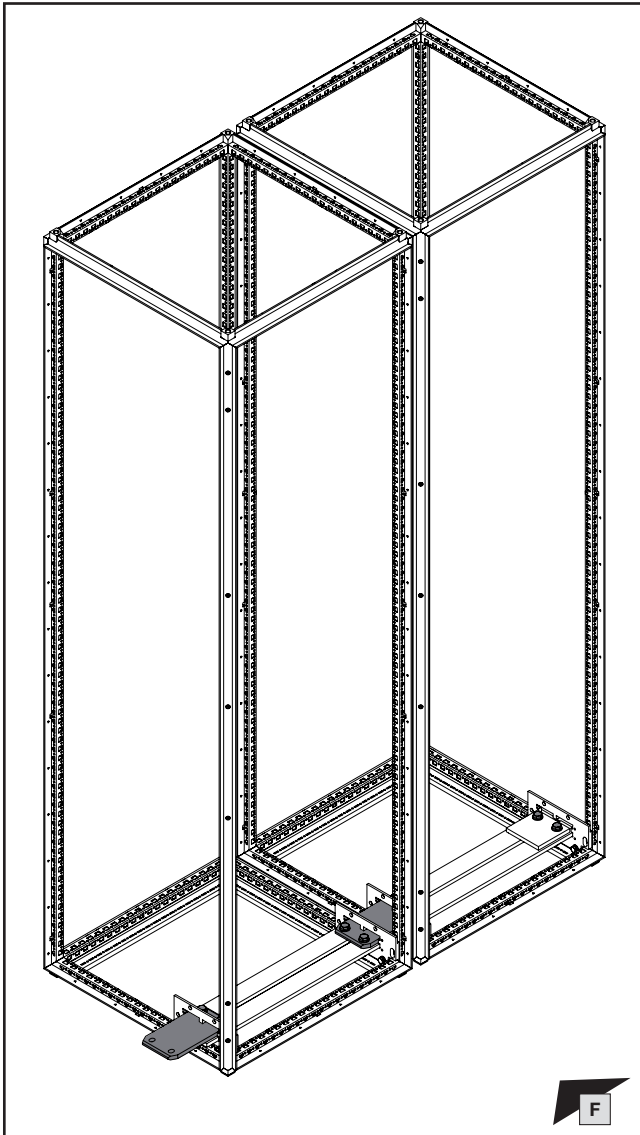
5. Montage N-Sammelschienensystem

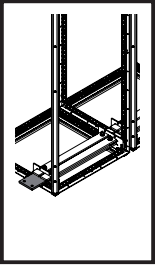
5. Assembling the N busbar system

5. Montage des jeux de barres Neutre



- 5.7 Anreihung der E-Cu Sammelschienen N unten (2x 50x10)
 5.7 Baying the E-Cu N busbars, bottom (2x 50x10)
 5.7 Juxtaposition des jeux de barres E-Cu Neutre en bas (2x 50x10)





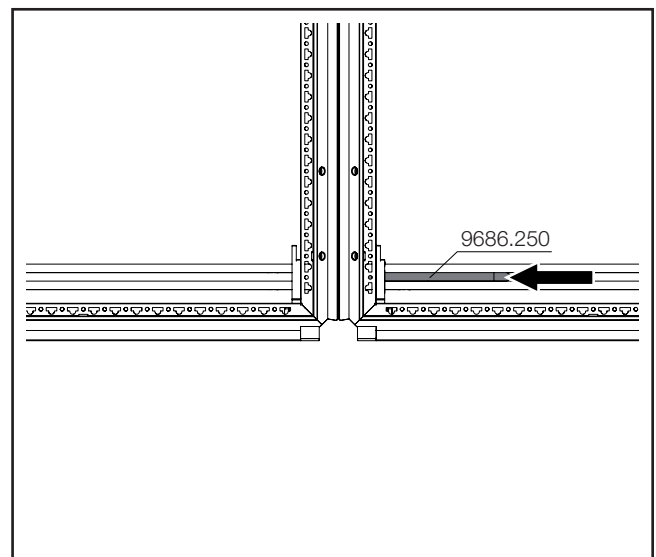
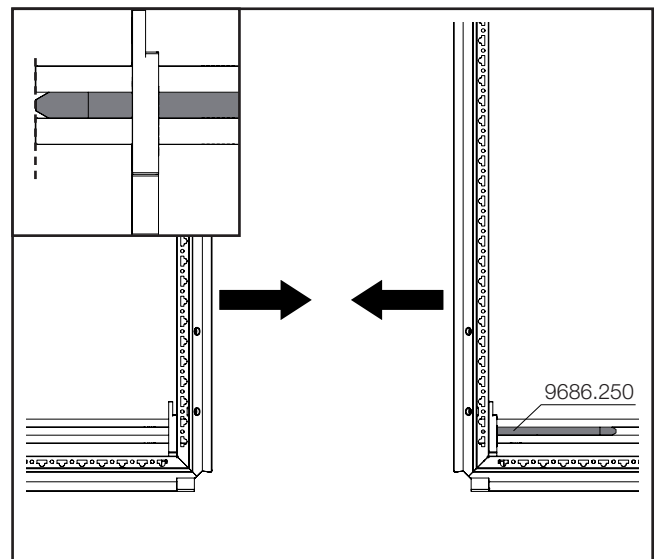
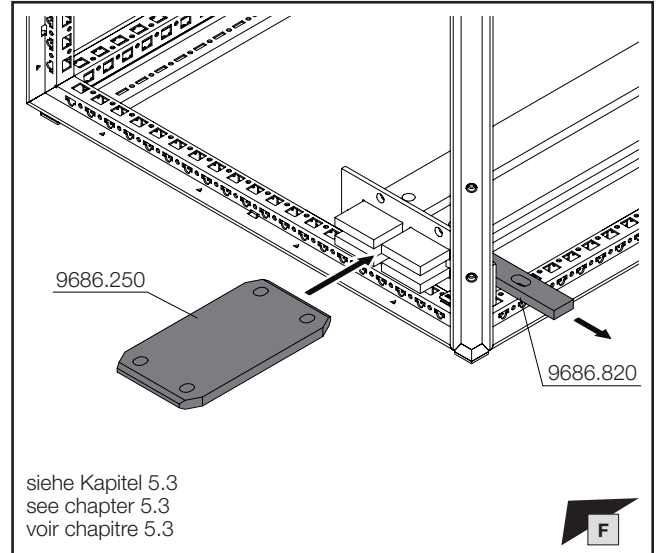
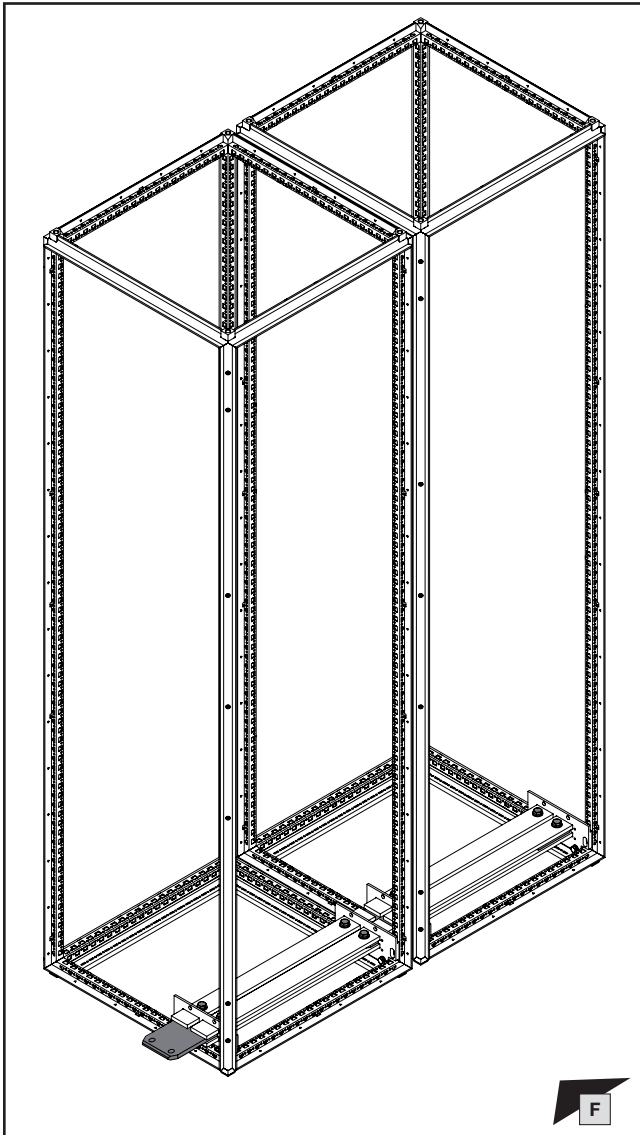
5. Montage N-Sammelschienensystem

5. Assembling the N busbar system

5. Montage des jeux de barres Neutre



- 5.8 Anreihung der E-Cu Sammelschienen N unten (4x 50x10)
 5.8 Baying the E-Cu N busbars, bottom (4x 50x10)
 5.8 Juxtaposition des jeux de barres E-Cu Neutre en bas (4x 50x10)

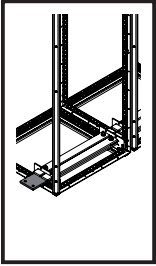


Hinweis / Note / Remarque

Gegebenenfalls Schraubverbindungen oder festgeschraubte Komponenten in unmittelbarer Nähe zum Verschieben der Längsverbinder lockern und nach der Montage wieder mit vorgegebenen Drehmomente festziehen!

If necessary, loosen screw connections or screw-fastened components in the immediate vicinity to move the longitudinal connectors, then re-tighten with the specified torques when fully assembled!

Pour déplacer les éléments de jonction longitudinaux, desserrer éventuellement les liaisons vissées ou les composants vissés à proximité, puis les resserrer à nouveau avec les couples de serrage prescrits après le montage !



SW16/
SW17



DE EN FR

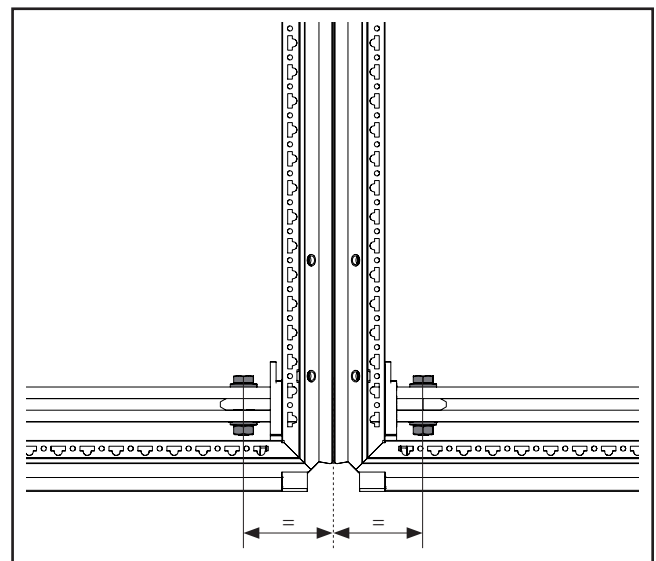
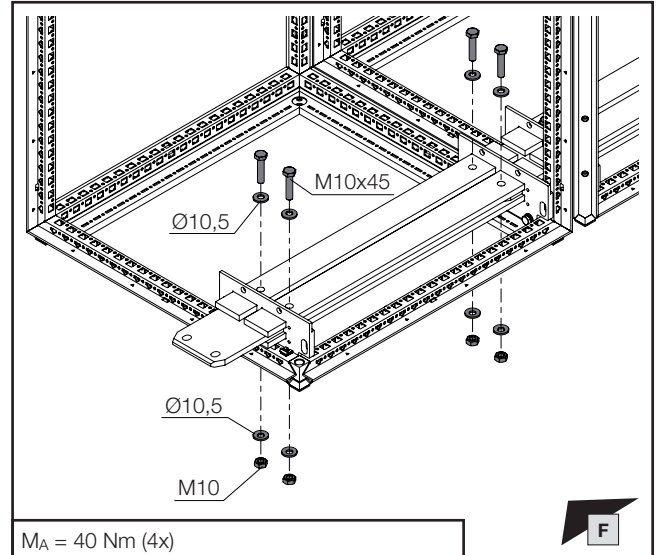
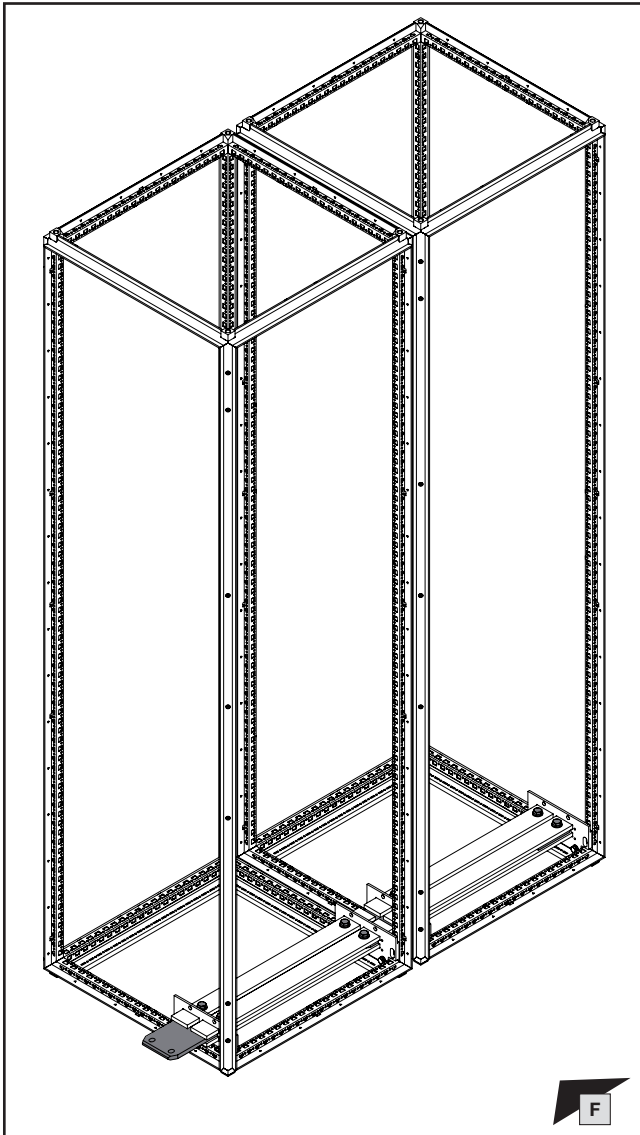
5. Montage N-Sammelschienensystem

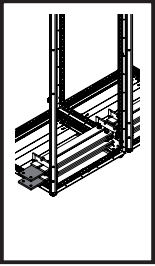
5. Assembling the N busbar system

5. Montage des jeux de barres Neutre



- 5.8 Anreihung der E-Cu Sammelschienen N unten (4x 50x10)
- 5.8 Baying the E-Cu N busbars, bottom (4x 50x10)
- 5.8 Juxtaposition des jeux de barres E-Cu Neutre en bas (4x 50x10)





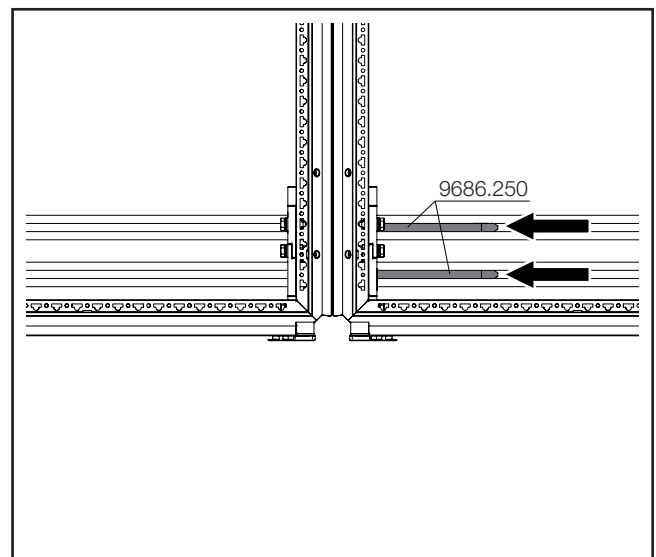
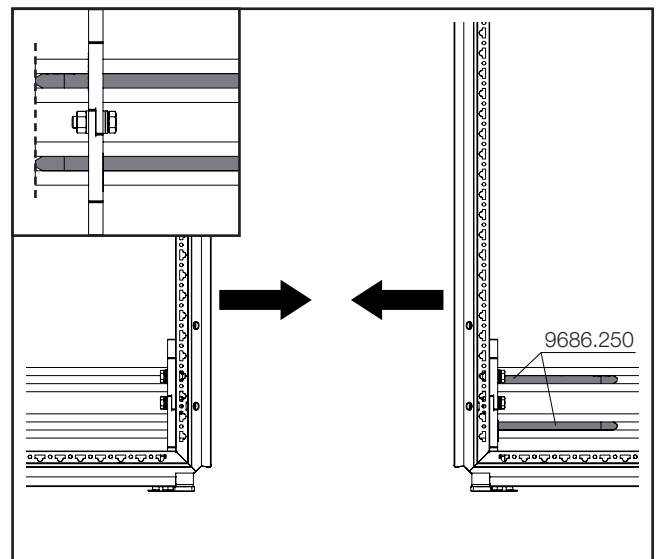
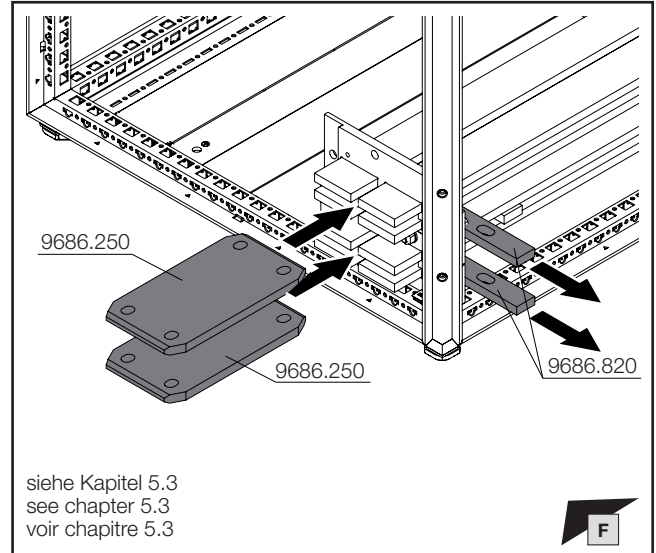
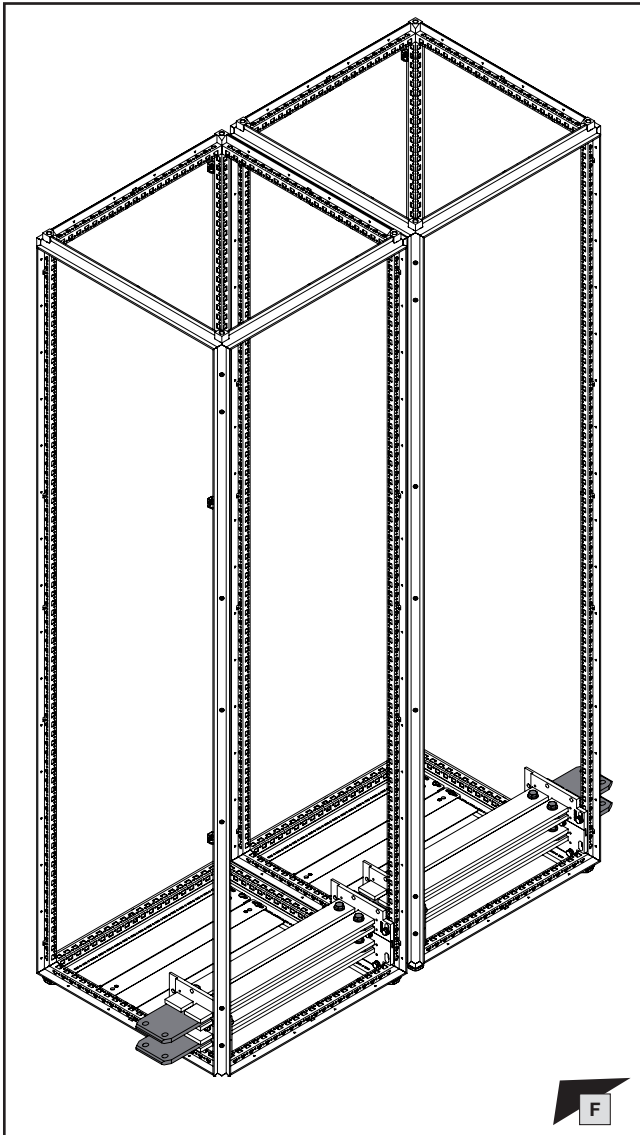
5. Montage N-Sammelschienensystem

5. Assembling the N busbar system

5. Montage des jeux de barres Neutre



- 5.9 Anreihung der E-Cu Sammelschienen N unten (2x 4x 50x10)
- 5.9 Baying the E-Cu N busbars, bottom (2x 4x 50x10)
- 5.9 Juxtaposition des jeux de barres E-Cu Neutre en bas (2x 4x 50x10)

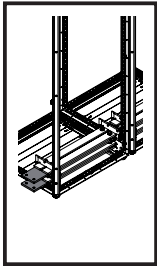


Hinweis / Note / Remarque

Gegebenenfalls Schraubverbindungen oder festgeschraubte Komponenten in unmittelbarer Nähe zum Verschieben der Längsverbinder lockern und nach der Montage wieder mit vorgegebenen Drehmomente festziehen!

If necessary, loosen screw connections or screw-fastened components in the immediate vicinity to move the longitudinal connectors, then re-tighten with the specified torques when fully assembled!

Pour déplacer les éléments de jonction longitudinaux, desserrer éventuellement les liaisons vissées ou les composants vissés à proximité, puis les resserrer à nouveau avec les couples de serrage prescrits après le montage !



SW16/
SW17



DE EN FR

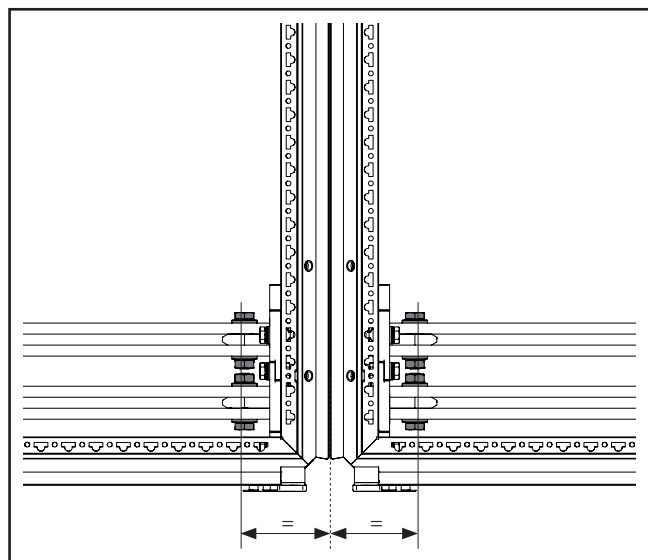
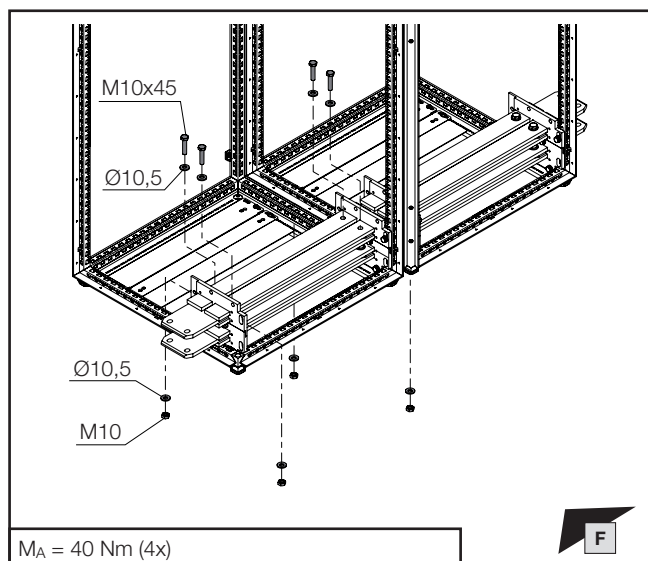
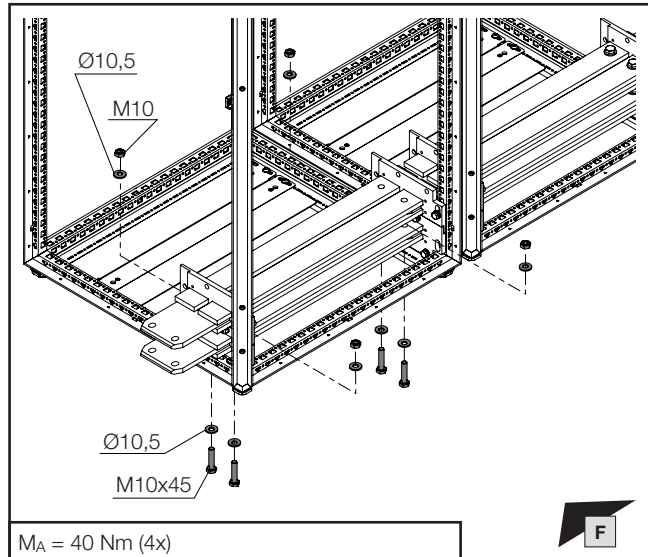
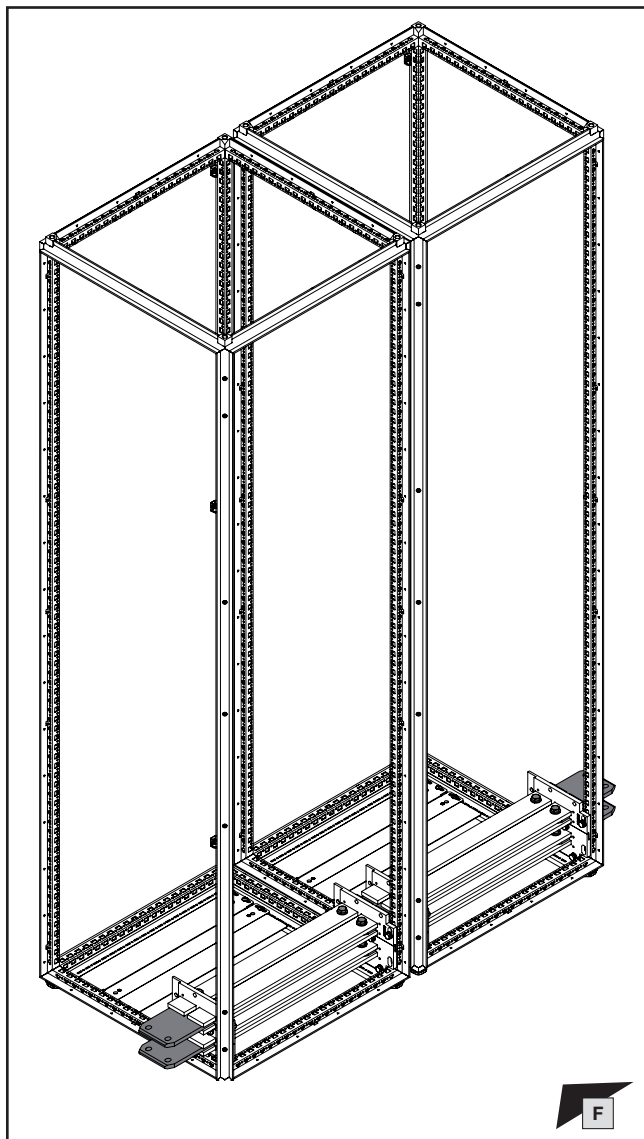
5. Montage N-Sammelschienensystem

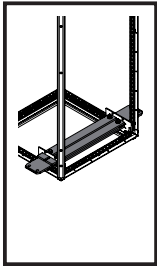
5. Assembling the N busbar system

5. Montage des jeux de barres Neutre



- 5.9 Anreihung der E-Cu Sammelschienen N unten (2x 4x 50x10)
- 5.9 Baying the E-Cu N busbars, bottom (2x 4x 50x10)
- 5.9 Juxtaposition des jeux de barres E-Cu Neutre en bas (2x 4x 50x10)



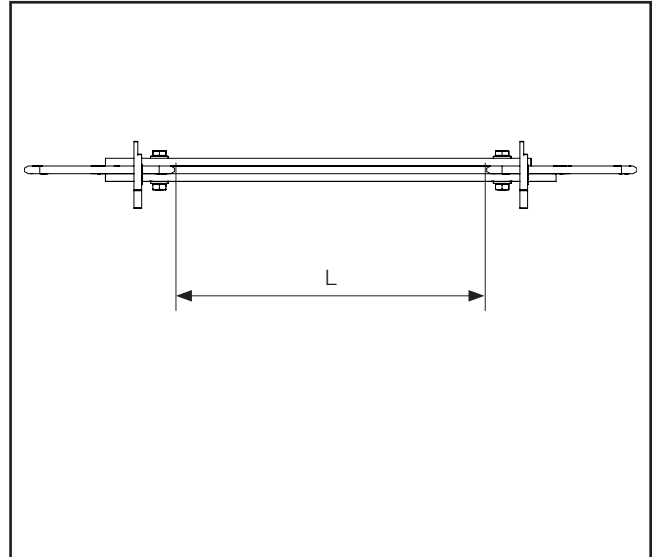
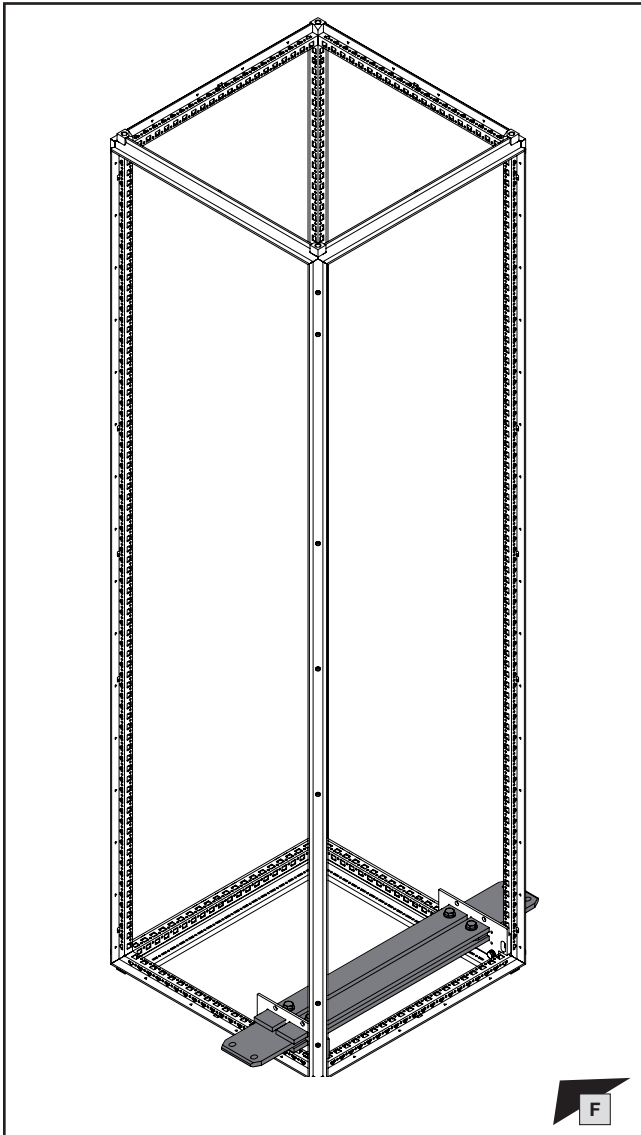


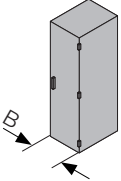
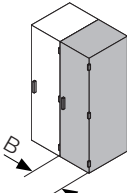
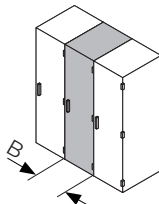
5. Montage N-Sammelschienensystem

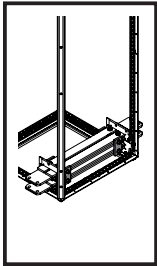
5. Assembling the N busbar system

5. Montage des jeux de barres Neutre

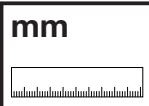
- 5.10 Verfügbarer Klemm- und Anschlussraum auf der N-Sammelschiene (bis 4x 50x10)
- 5.10 Available terminal and connection space on the N busbar (up to 4x 50x10)
- 5.10 Zone de serrage et de raccordement disponible sur le jeu de barres Neutre (jusqu'à 4x 50x10)



Einzelschrank Stand-alone enclosure Armoire isolée	Endschrank End-of-row enclosure Armoire d'extrémité de rangée	Durchgangsschrank Middle-of-row enclosure Armoire juxtaposée par ses deux côtés
		
$L = B - 159 \text{ mm}$	$L = B - 177 \text{ mm}$	$L = B - 195 \text{ mm}$



SW16/
SW17 



DE EN FR

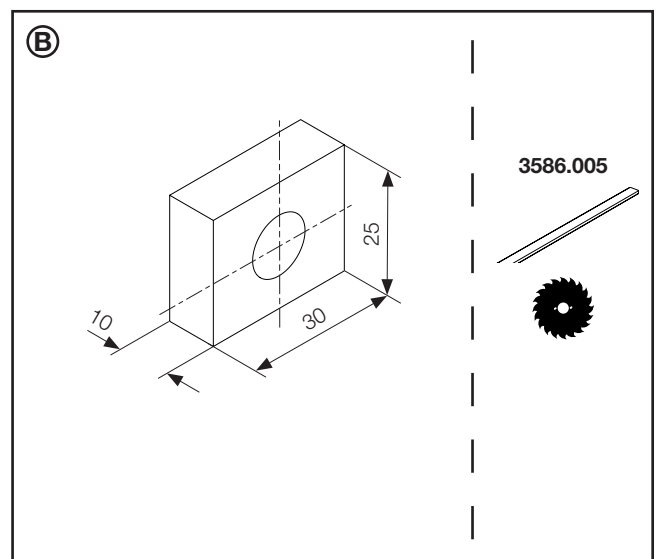
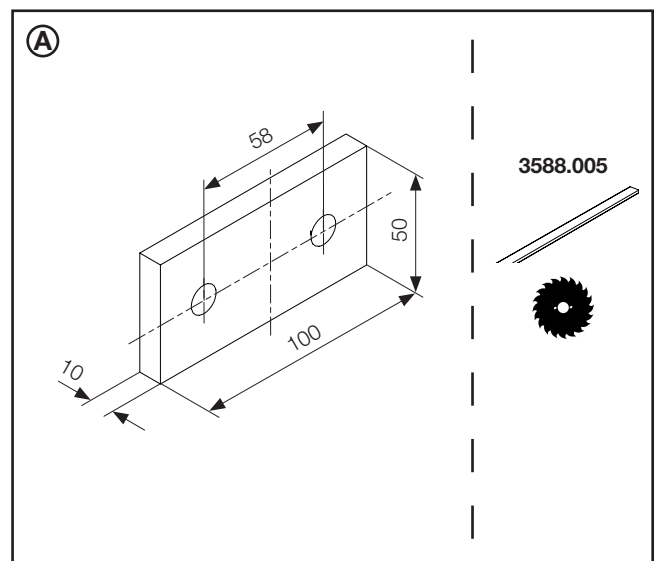
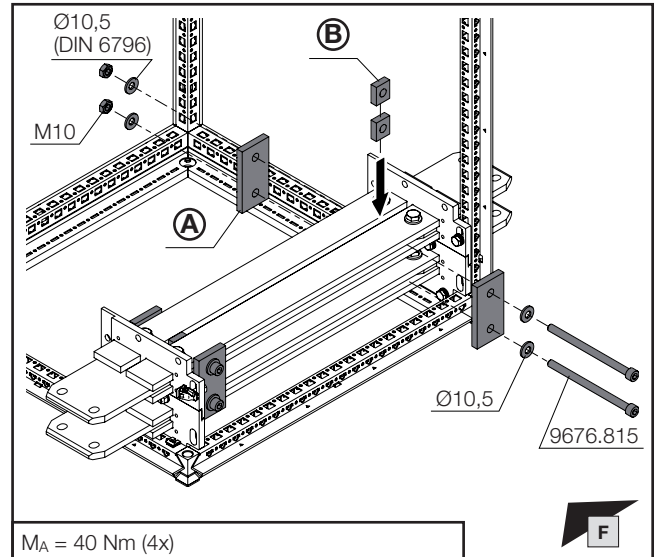
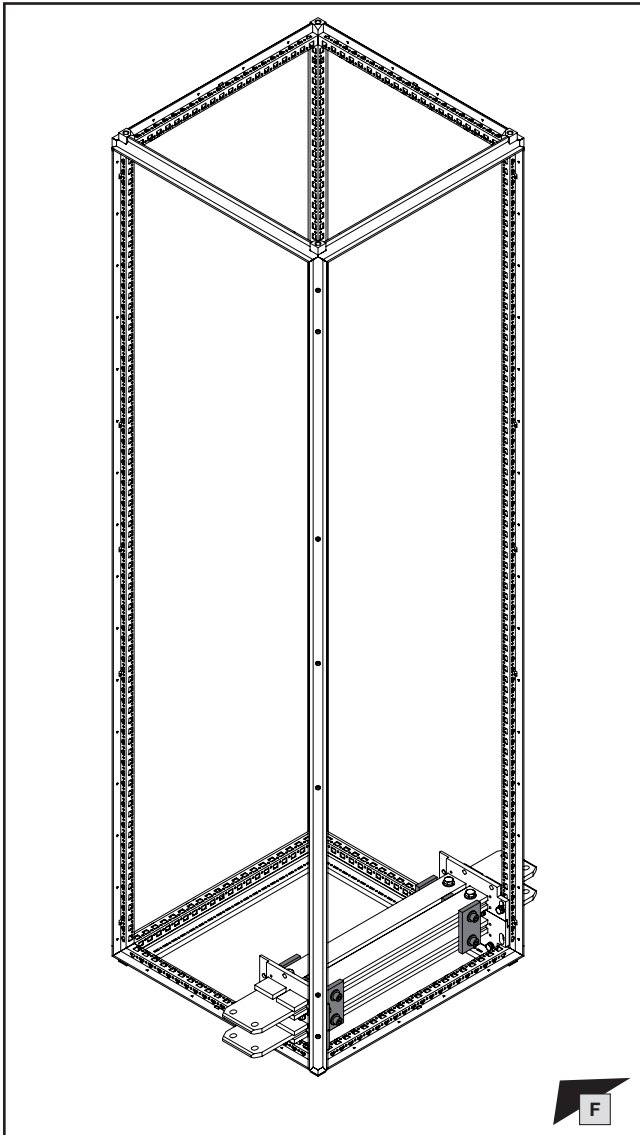
5. Montage N-Sammelschienensystem

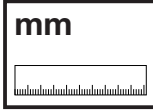
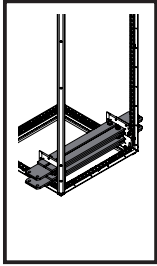
5. Assembling the N busbar system

5. Montage des jeux de barres Neutre



- 5.11 Brückung E-Cu Sammelschienen N oben und unten (2x 4x 50x10)
- 5.11 Bridging the E-Cu N busbars, top and bottom (2x 4x 50x10)
- 5.11 Pontage des jeux de barres E-Cu Neutre en haut et en bas (2x 4x 50x10)



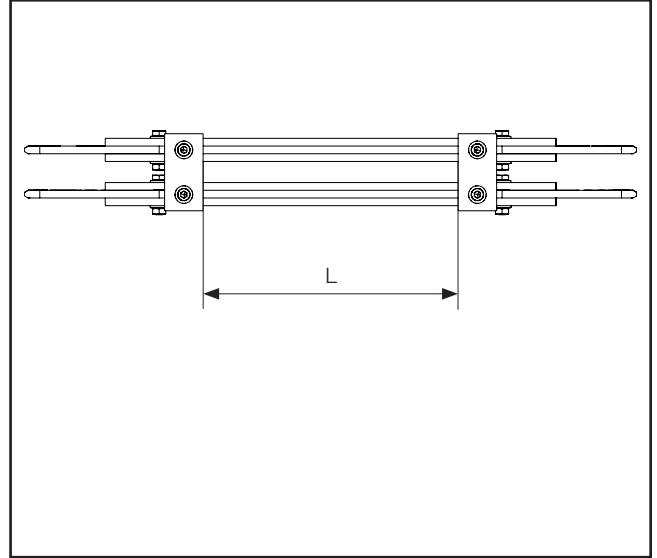
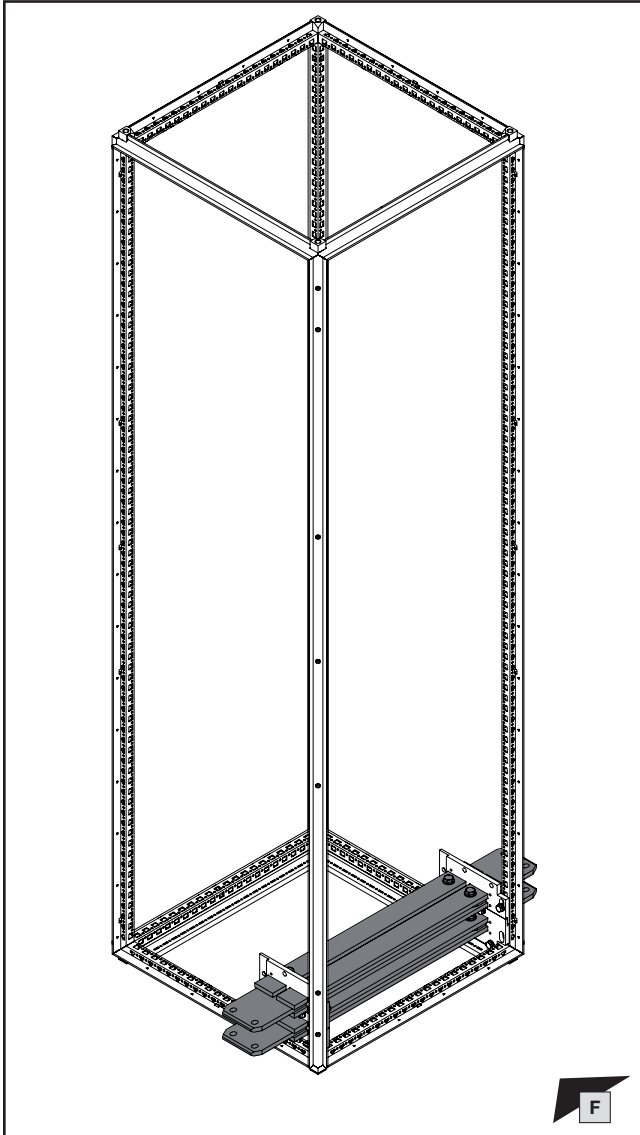


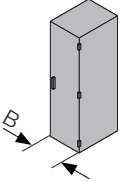
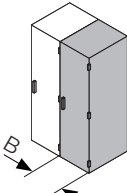
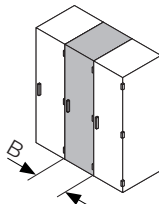
5. Montage N-Sammelschienensystem

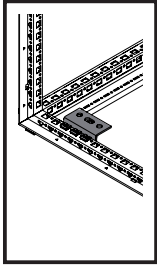
5. Assembling the N busbar system

5. Montage des jeux de barres Neutre

- 5.12 Verfügbarer Klemm- und Anschlussraum auf der N-Sammelschiene (2x 4x 50x10)
- 5.12 Available terminal and connection space on the N busbar (2x 4x 50x10)
- 5.12 Zone de serrage et de raccordement disponible sur le jeu de barres Neutre (2x 4x 50x10)



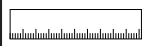
Einzelschrank Stand-alone enclosure Armoire isolée	Endschrank End-of-row enclosure Armoire d'extrémité de rangée	Durchgangsschrank Middle-of-row enclosure Armoire juxtaposée par ses deux côtés
		
$L = B - 209 \text{ mm}$	$L = B - 239 \text{ mm}$	$L = B - 269 \text{ mm}$



TX30



mm



DE EN FR

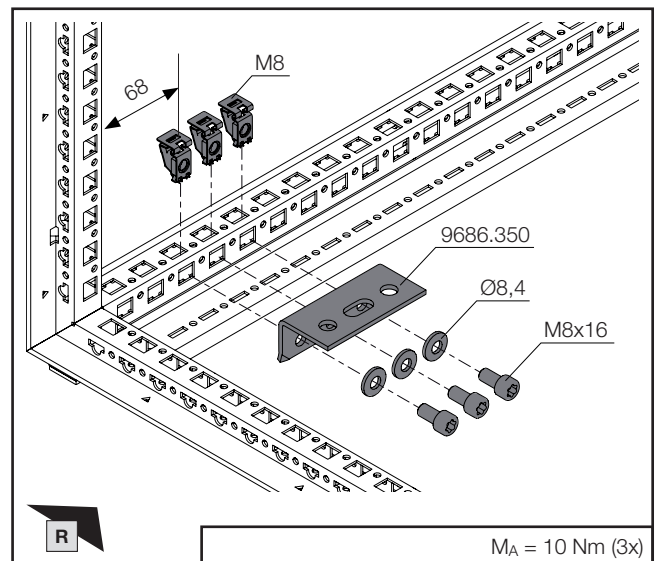
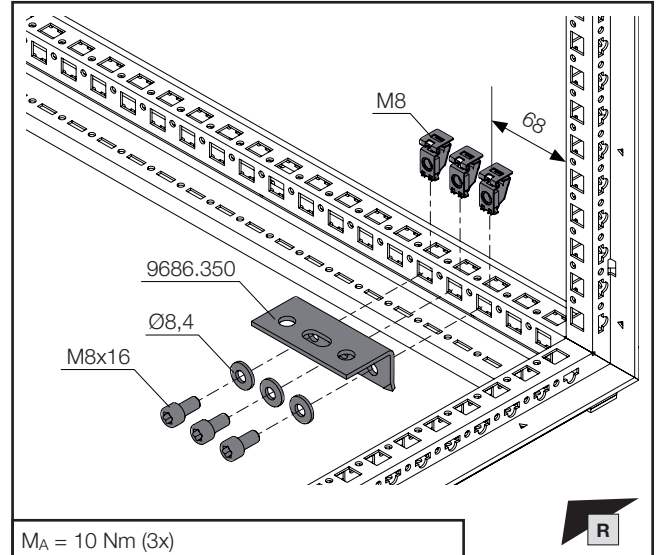
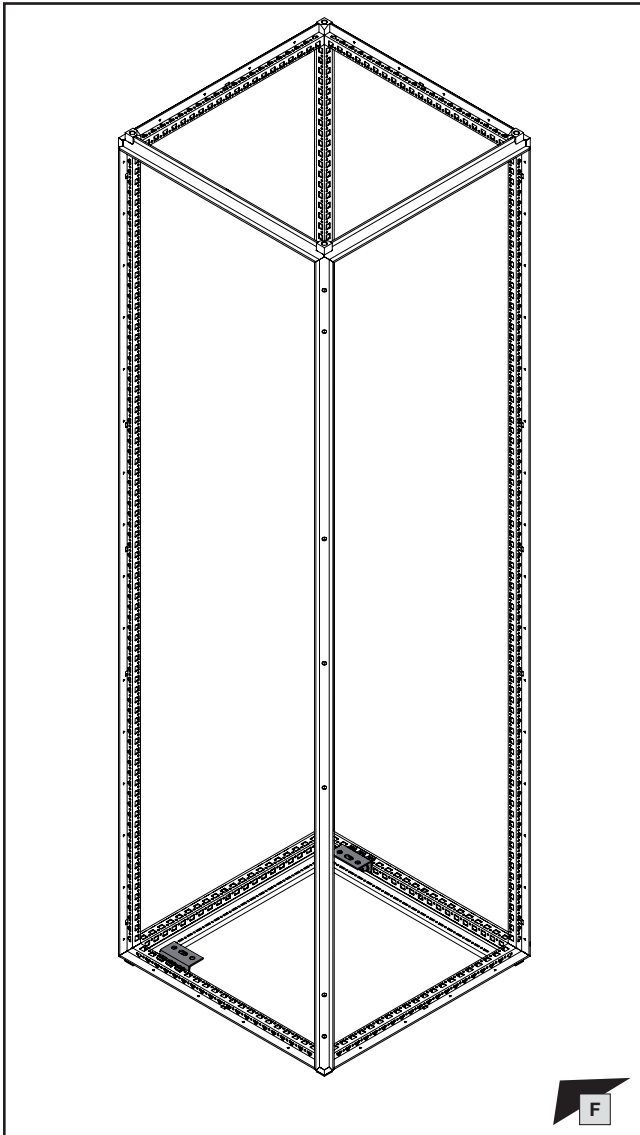
6. Montage PE/PEN-Sammelschienensystem

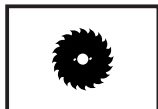
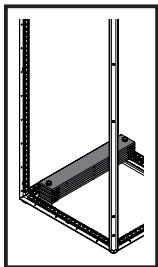
6. Assembling the PE/PEN busbar system

6. Montage des jeux de barres Terre/Terre-Neutre



- 6.1 Montage PE/PEN Befestigungswinkel
- 6.1 Fitting the PE/PEN mounting brackets
- 6.1 Montage des équerres de fixation Terre/Terre-Neutre

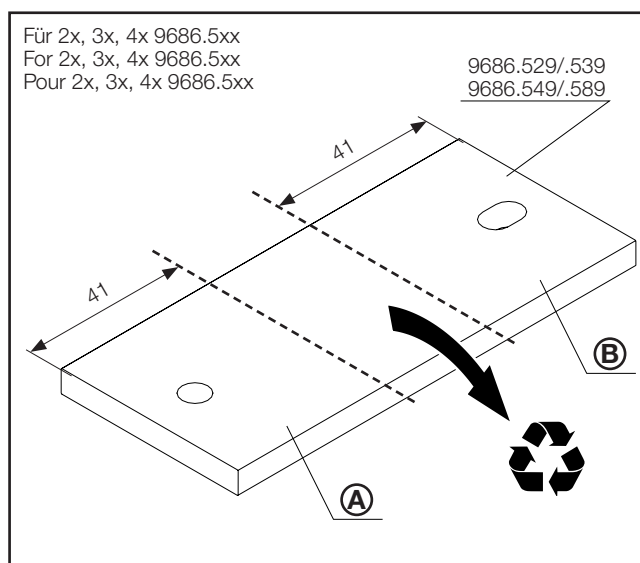
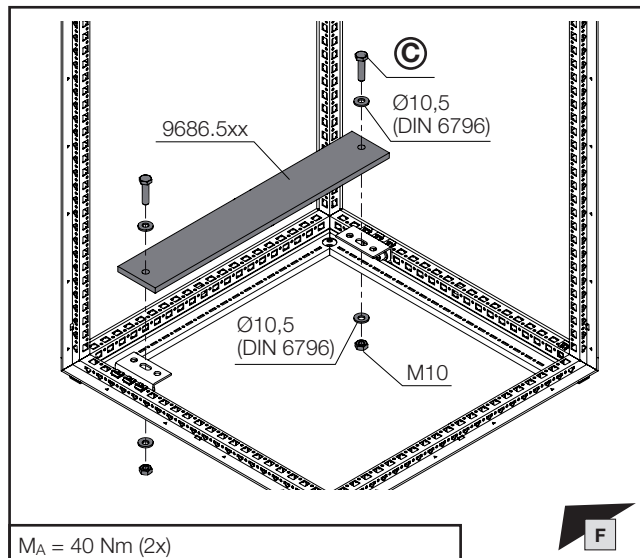
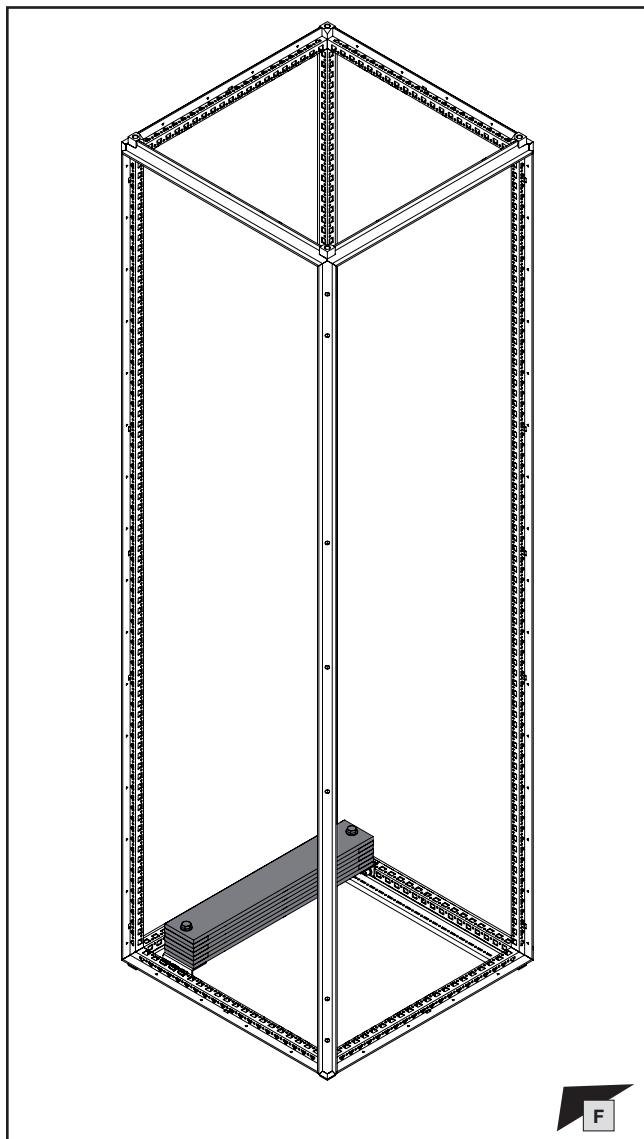




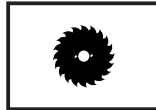
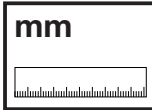
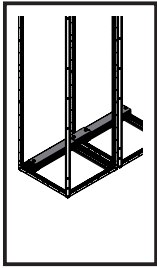
6. Montage PE/PEN-Sammelschienensystem 6. Assembling the PE/PEN busbar system 6. Montage des jeux de barres Terre/Terre-Neutre



- 6.2 Montage PE/PEN-Sammelschiene (bis zu 4x 1x80 mm)
6.2 Fitting the PE/PEN busbar (up to 4x 1x80 mm)
6.2 Montage du jeu de barres Terre/Terre-Neutre (jusqu'à 4x 1x80 mm)



© Anzahl Quantity Nombre 9686.5xx	M10 – 8.8 ISO 4017 L mm
1	30
2	50
3	70
4	90



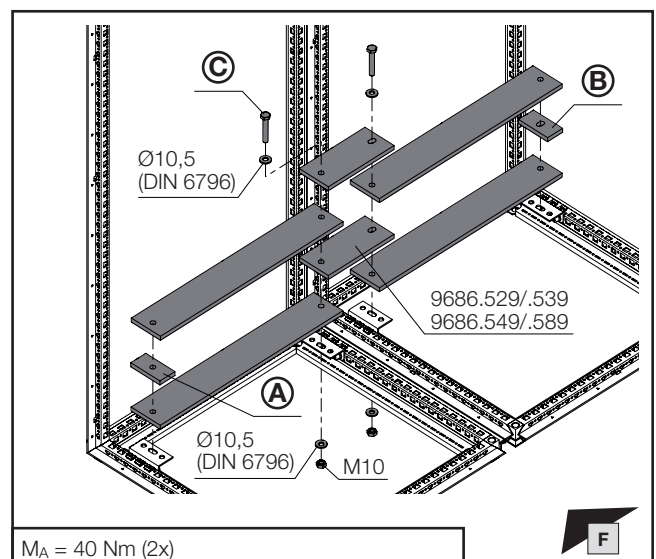
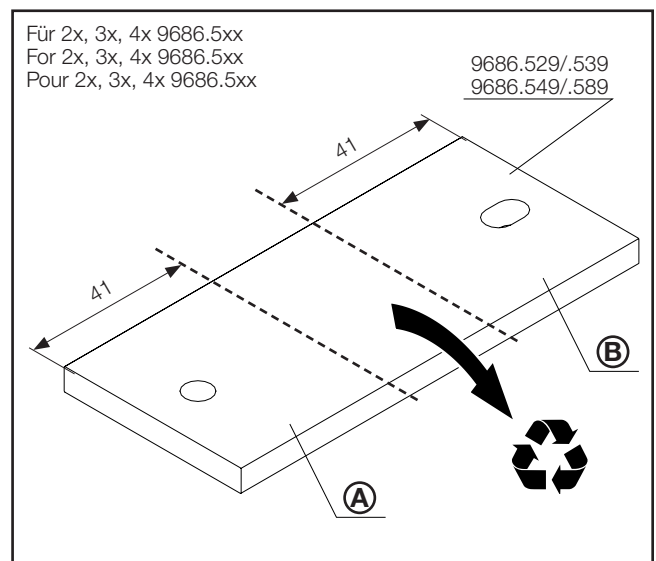
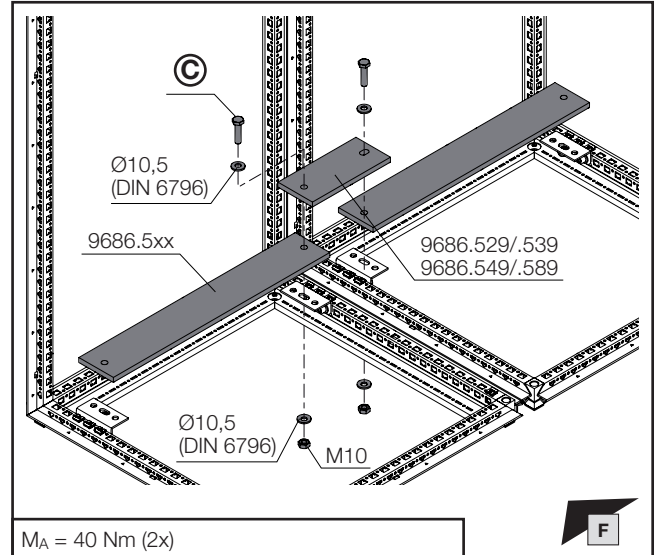
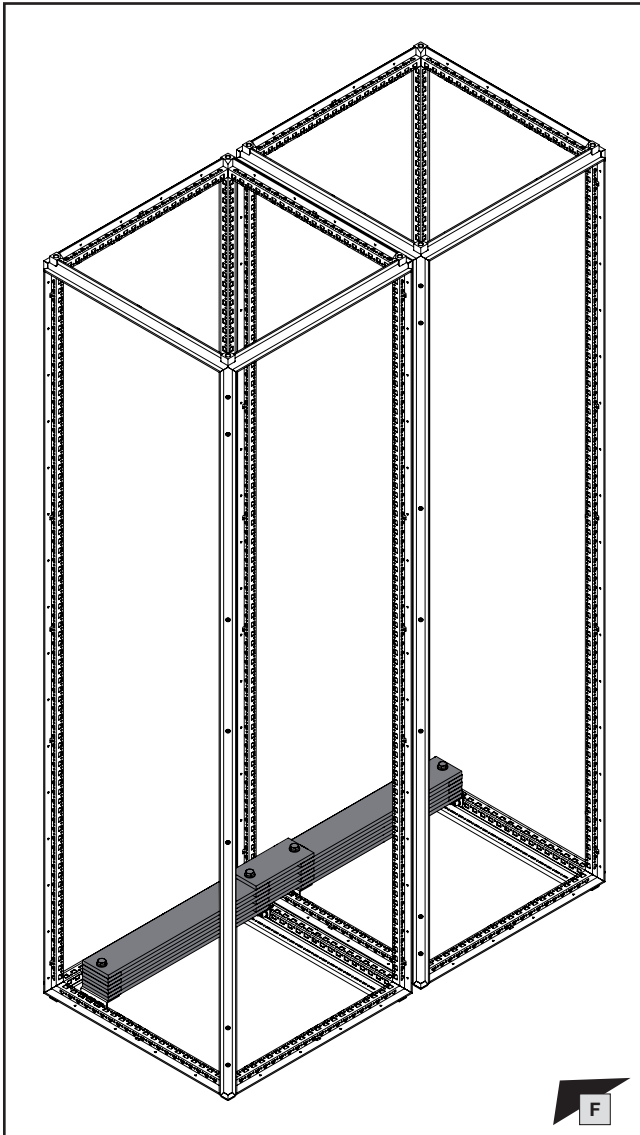
6. Montage PE/PEN-Sammelschienensystem

6. Assembling the PE/PEN busbar system

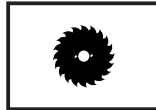
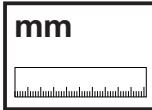
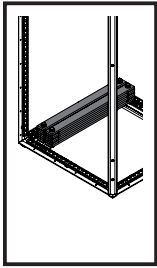
6. Montage des jeux de barres Terre/Terre-Neutre



- 6.3 Anreihung PE/PEN-Sammelschiene (bis zu 4x 1x80 mm)
 6.3 Baying the PE/PEN busbar (up to 4x 1x80 mm)
 6.3 Juxtaposition du jeu de barres Terre/Terre-Neutre (jusqu'à 4x 1x80 mm)



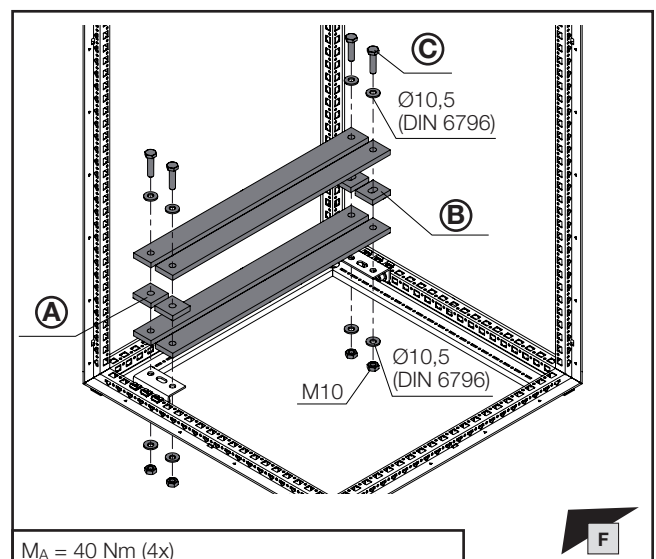
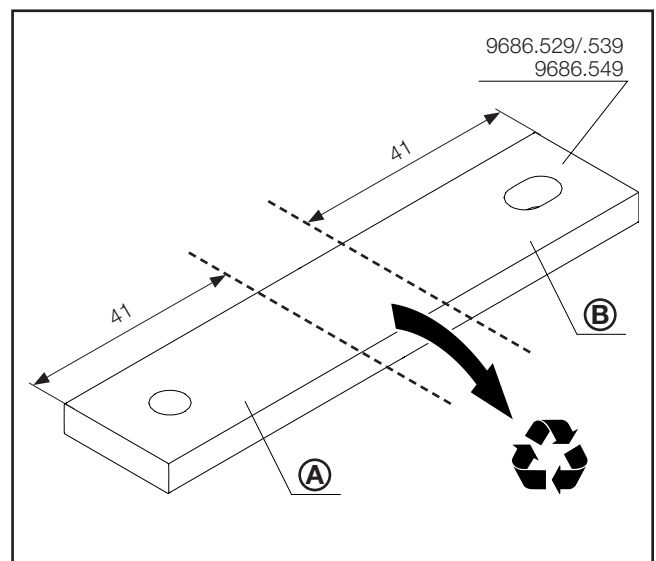
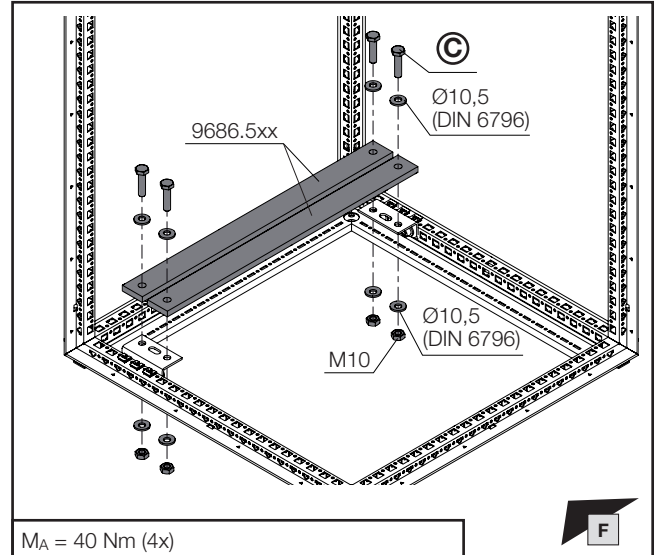
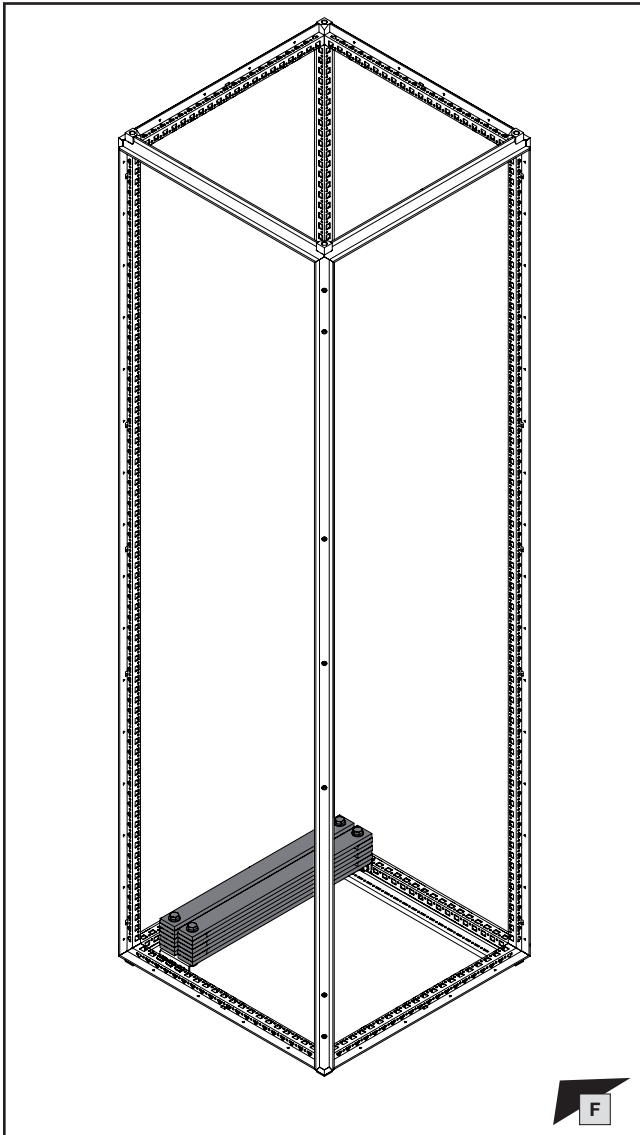
© Anzahl Quantity Nombre 9686.5xx	 M10 – 8.8 ISO 4017 L mm
1	40
2	60
3	80
4	100



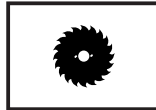
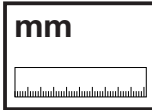
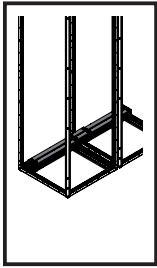
6. Montage PE/PEN-Sammelschienensystem 6. Assembling the PE/PEN busbar system 6. Montage des jeux de barres Terre/Terre-Neutre



- 6.4 Montage PE/PEN-Sammelschiene (bis zu 4x 2x40 mm)
6.4 Fitting the PE/PEN busbar (up to 4x 2x40 mm)
6.4 Montage du jeu de barres Terre/Terre-Neutre (jusqu'à 4x 2x40 mm)



© Anzahl Quantity Nombre 9686.5xx	M10 – 8.8 ISO 4017 L mm
1	30
2	50
3	70
4	90



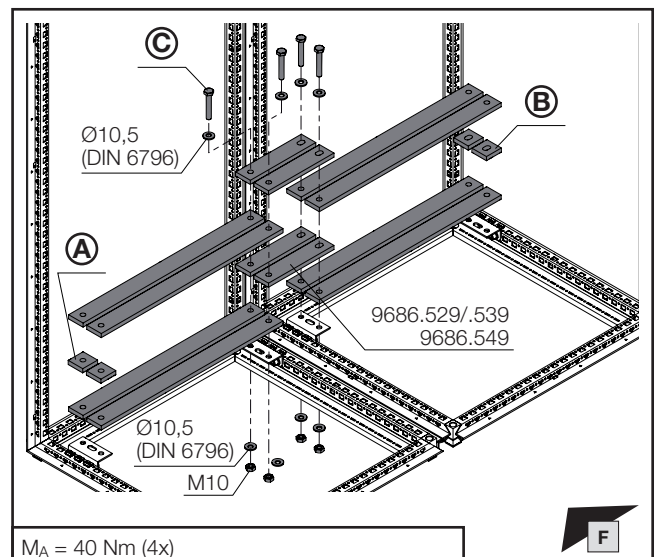
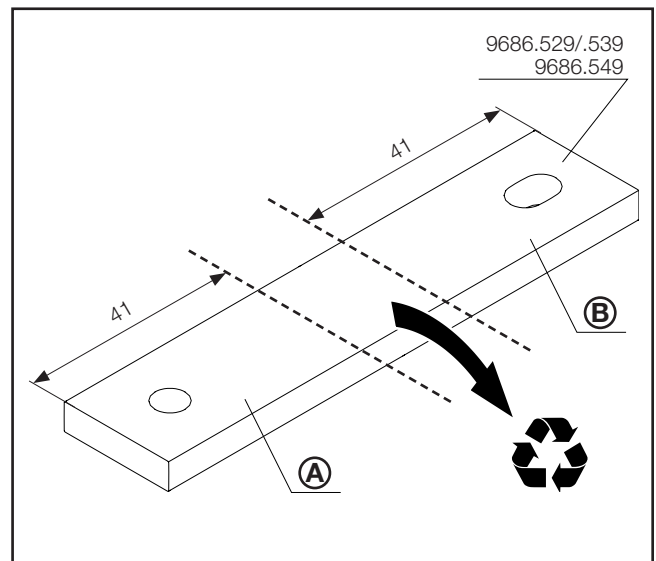
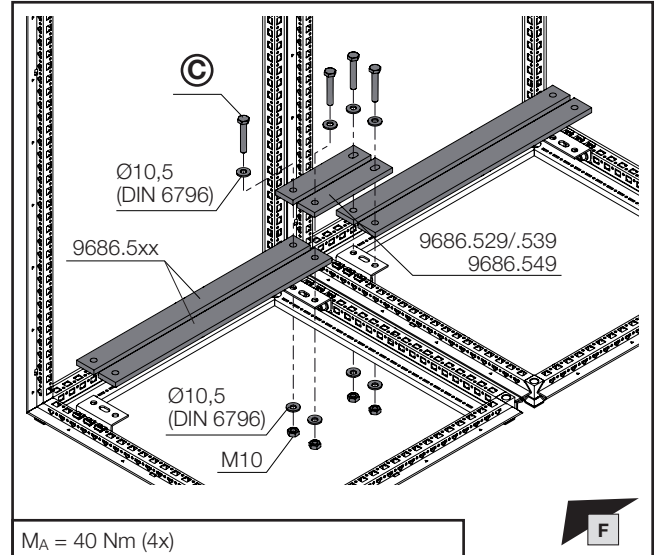
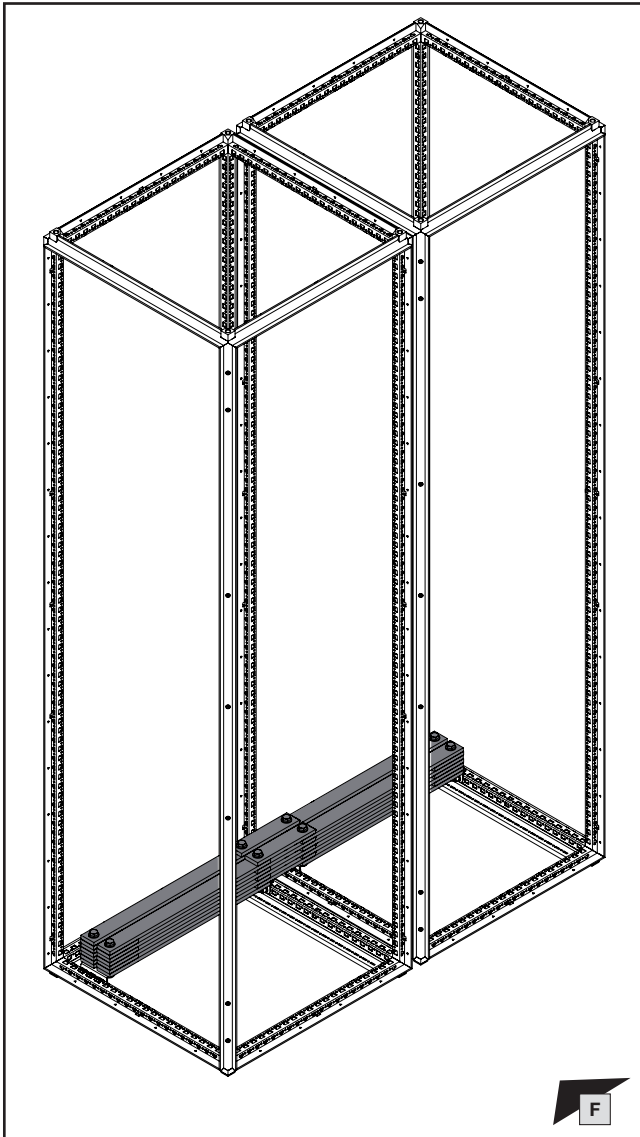
6. Montage PE/PEN-Sammelschienensystem

6. Assembling the PE/PEN busbar system

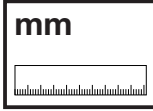
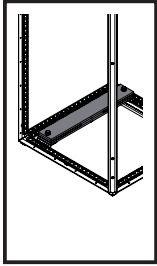
6. Montage des jeux de barres Terre/Terre-Neutre



- 6.5 Anreihung PE/PEN-Sammelschiene (bis zu 4x 2x40 mm)
 6.5 Baying the PE/PEN busbar (up to 4x 2x40 mm)
 6.5 Juxtaposition du jeu de barres Terre/Terre-Neutre (jusqu'à 4x 2x40 mm)



© Anzahl Quantity Nombre 9686.5xx	 M10 – 8.8 ISO 4017 L mm
1	40
2	60
3	80
4	100

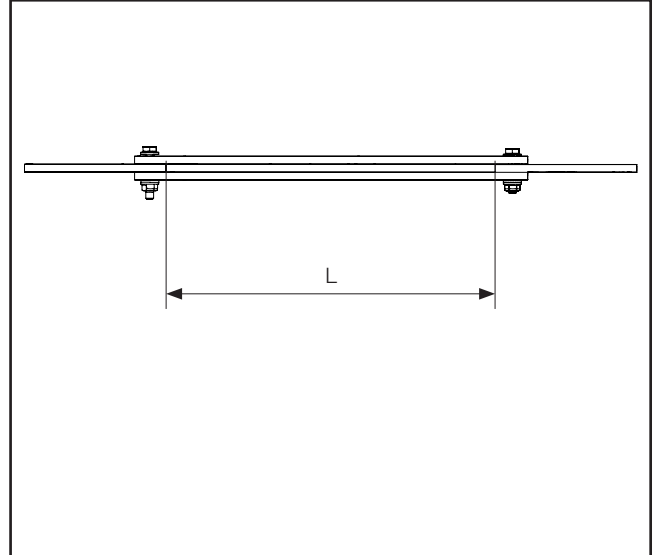
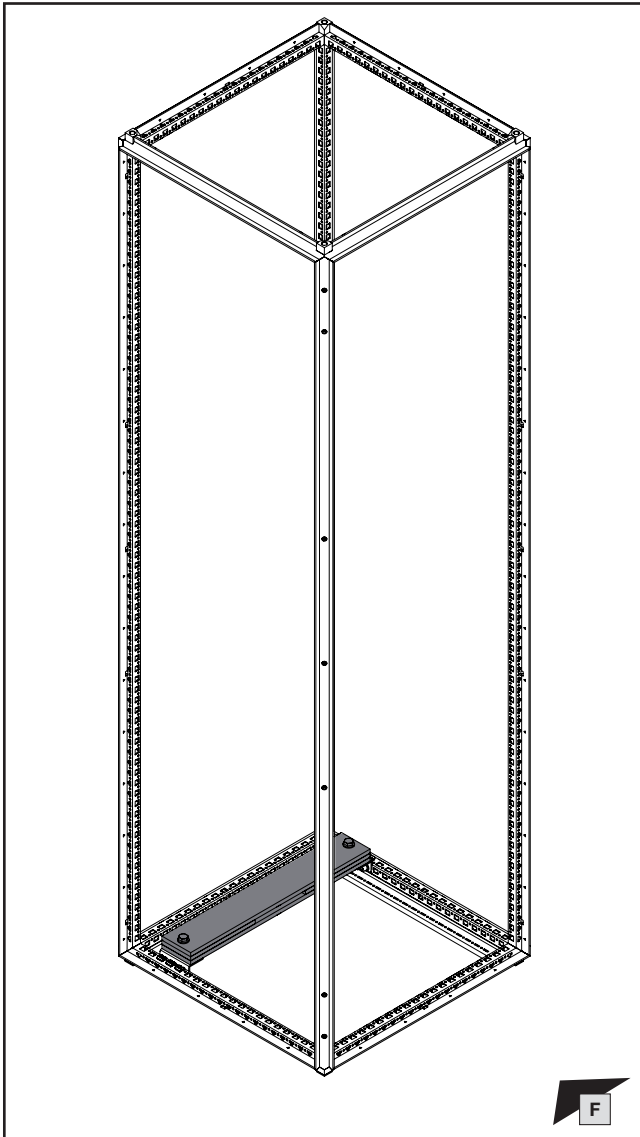


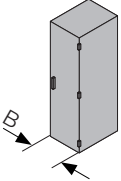
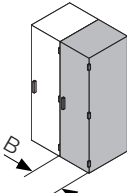
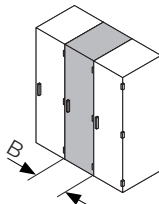
6. Montage PE/PEN-Sammelschienensystem

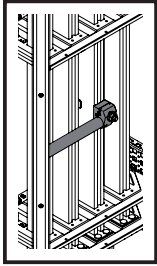
6. Assembling the PE/PEN busbar system

6. Montage des jeux de barres Terre/Terre-Neutre

- 6.6 Verfügbarer Klemm- und Anschlussraum auf der PE/PEN-Sammelschiene
- 6.6 Available terminal and connection space on the PE/PEN busbar
- 6.6 Zone de serrage et de raccordement disponible sur le jeu de barres Terre/Terre-Neutre



Einzelschrank Stand-alone enclosure Armoire isolée	Endschrank End-of-row enclosure Armoire d'extrémité de rangée	Durchgangsschrank Middle-of-row enclosure Armoire juxtaposée par ses deux côtés
		
$L = B - 170 \text{ mm}$	$L = B - 175 \text{ mm}$	$L = B - 180 \text{ mm}$



SW16/
SW17

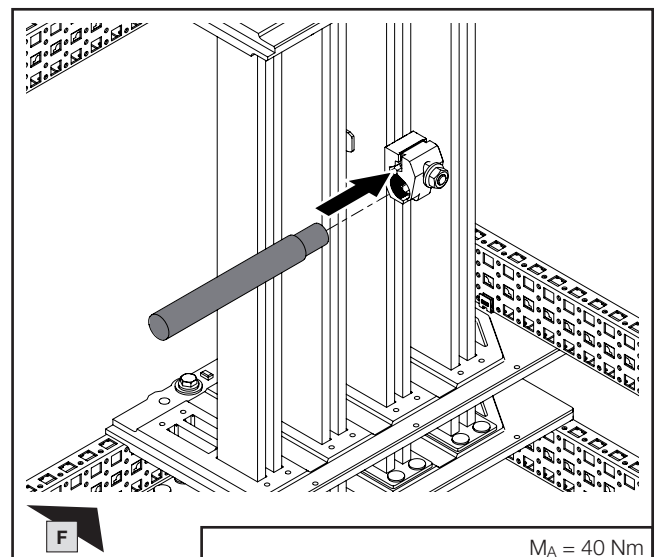
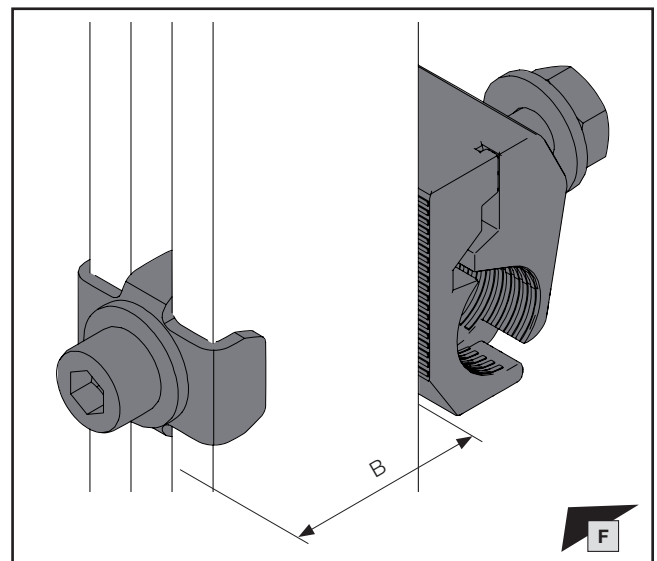
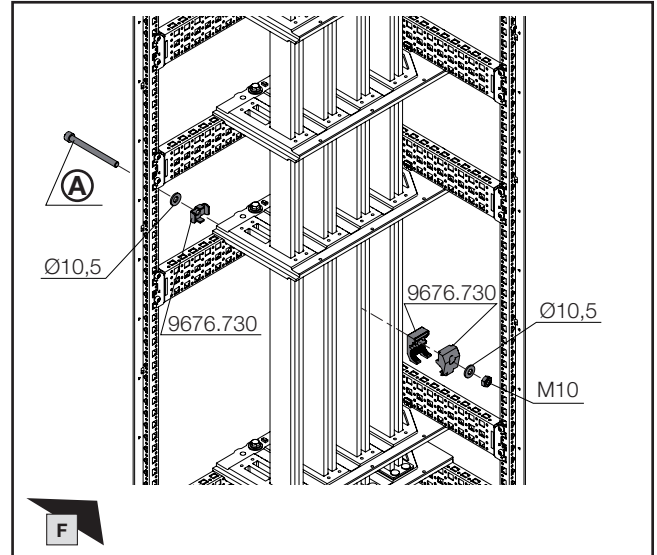
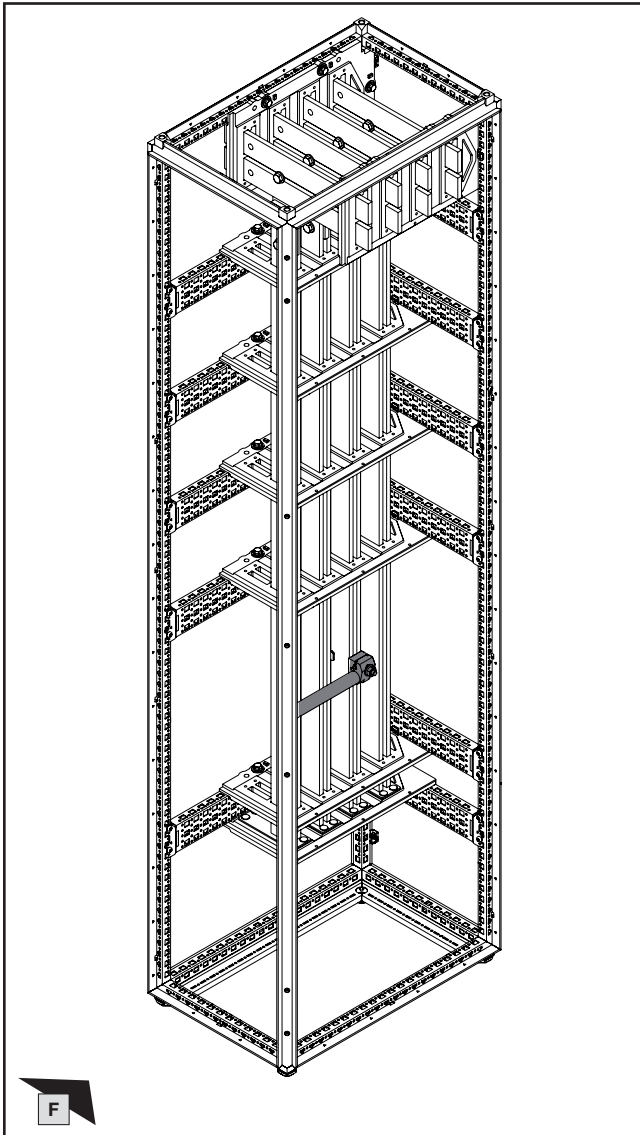
IS8

DE EN FR

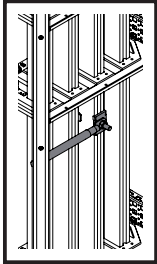
7. Montage Anschlusstechnik 7. Installing the connection system 7. Montage des raccordements



- 7.1 2 Verteilsammelschienen vertikal – Direktanschluss-klemme
- 7.1 2 vertical distribution busbars – Direct connection terminal
- 7.1 2 jeux de barres de distribution verticaux – borne de raccordement direct



Ausführung Version Modèle	B mm	^A Best.-Nr. Model No. Référence
M10x90	30	9676.809
M10x110	50	9676.811



SW16/
SW17

IS8

DE EN FR

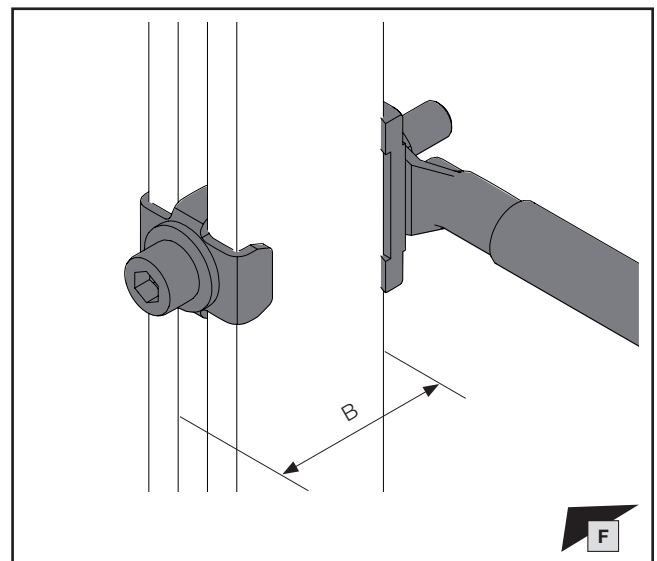
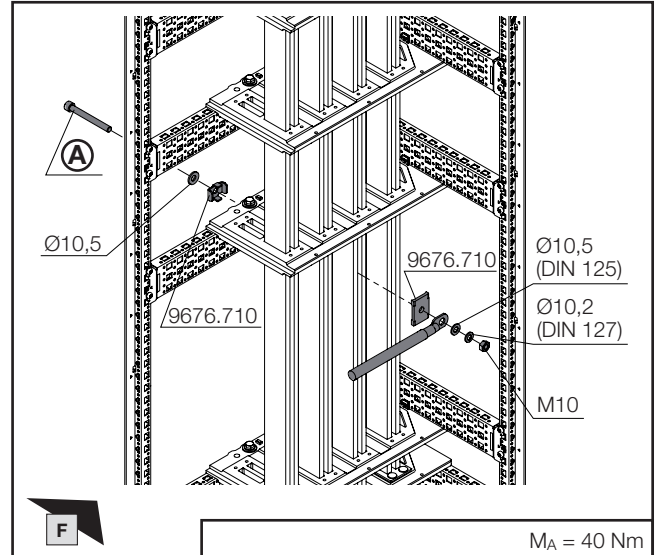
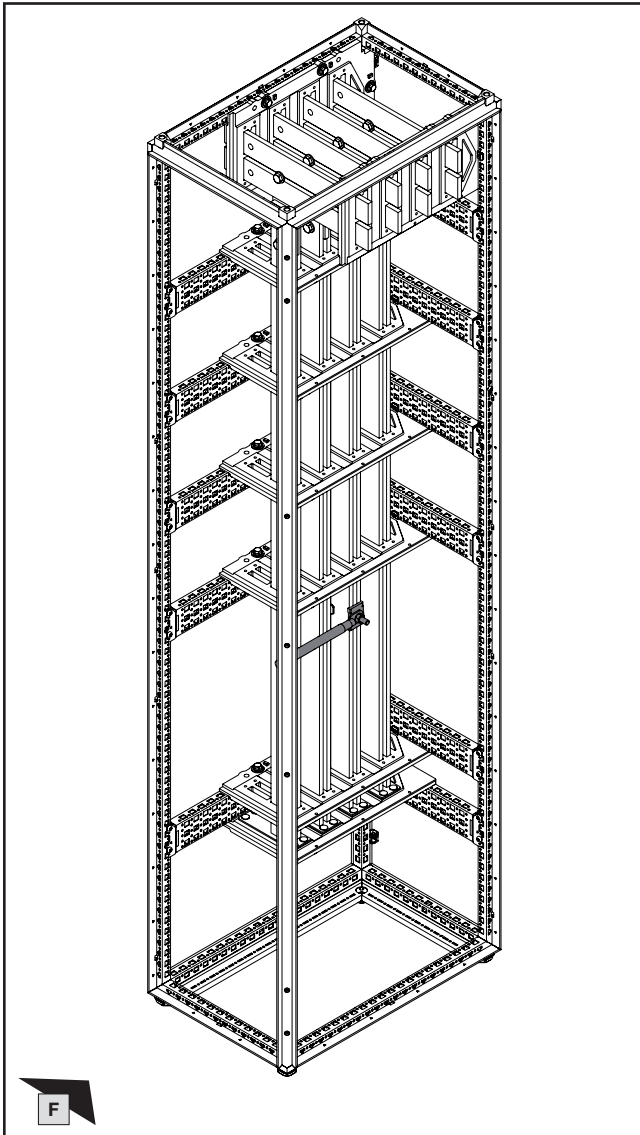
7. Montage Anschlusstechnik

7. Installing the connection system

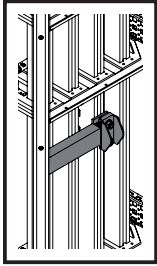
7. Montage des raccords



- 7.2 2 Verteilsammelschienen vertikal – Anschlussplatten für Bolzen M10
- 7.2 2 vertical distribution busbars – Connection plates for M10 bolts
- 7.2 2 jeux de barres de distribution verticaux – plaques de raccordement pour boulons M10



Ausführung Version Modèle	B mm	^(A) Best.-Nr. Model No. Référence
M10x70	30	9676.807
M10x90	50	9676.809



SW16/
SW17

IS8

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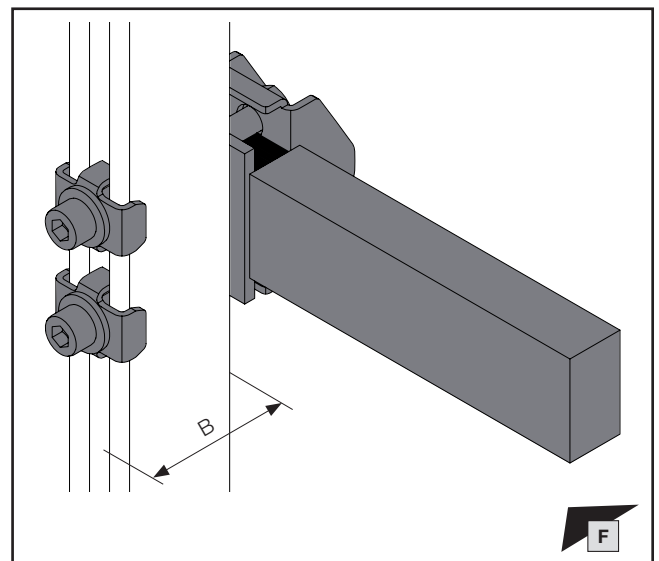
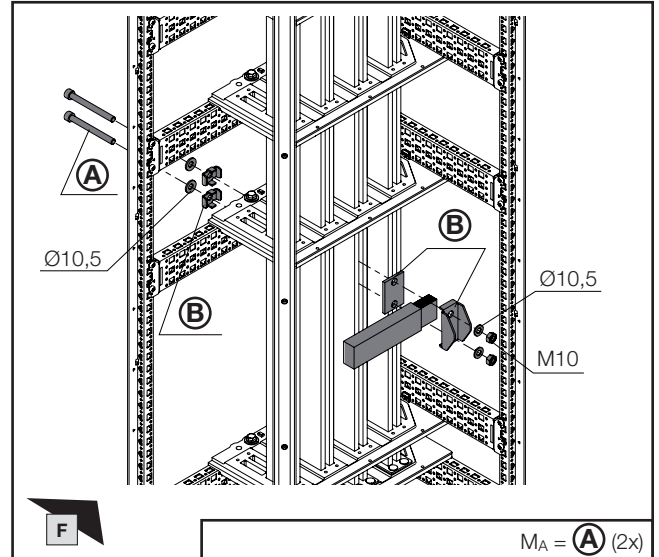
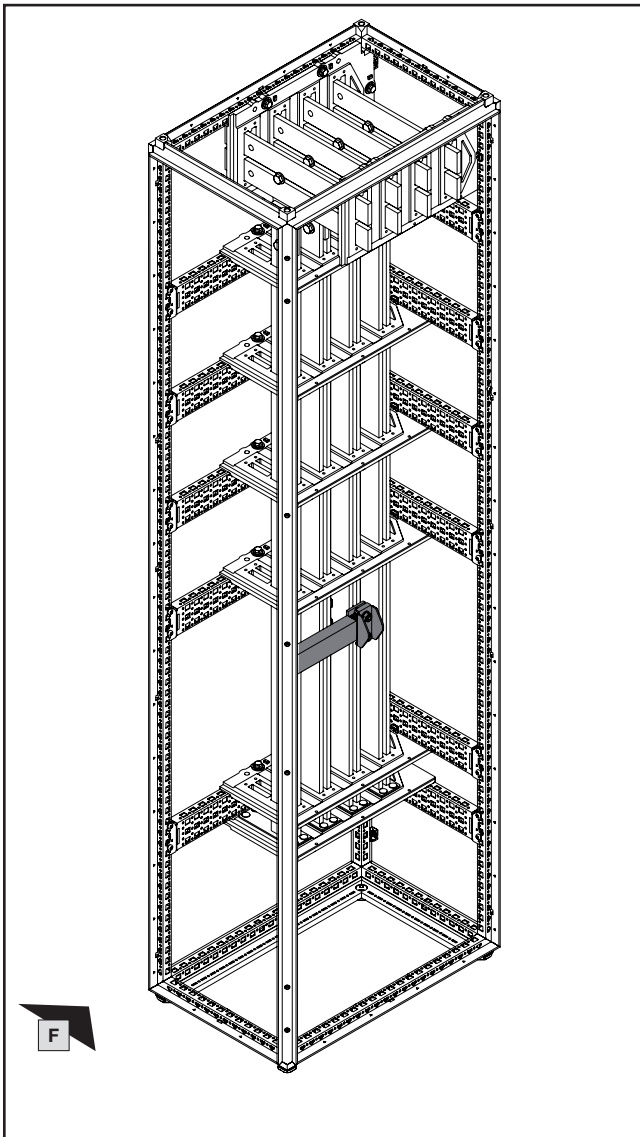
7. Montage Anschlusstechnik

7. Installing the connection system

7. Montage des raccordements

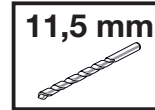
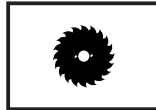
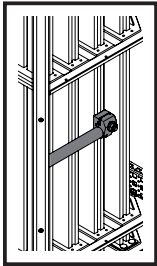


- 7.3 2 Verteilsammelschienen vertikal – Anschlussplatten zum Anschluss von lamellierten Flachkupferschienen
- 7.3 2 vertical distribution busbars – Connection plates for connecting laminated flat copper bars
- 7.3 2 jeux de barres de distribution verticaux – plaques de raccordement pour raccorder les barres de cuivre plates lamellées



Ausführung Version Modèle	B mm	A Best.-Nr. Model No. Référence
M10x80	30	9676.808
M10x100	50	9676.810

A M_A Nm	B Best.-Nr. Model No. Référence
20	9676.747
25	9676.748
30	9676.749



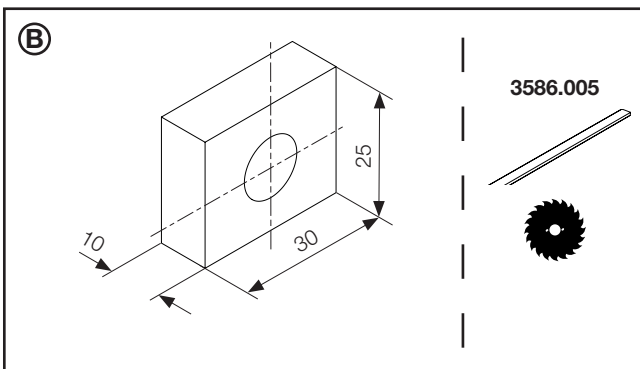
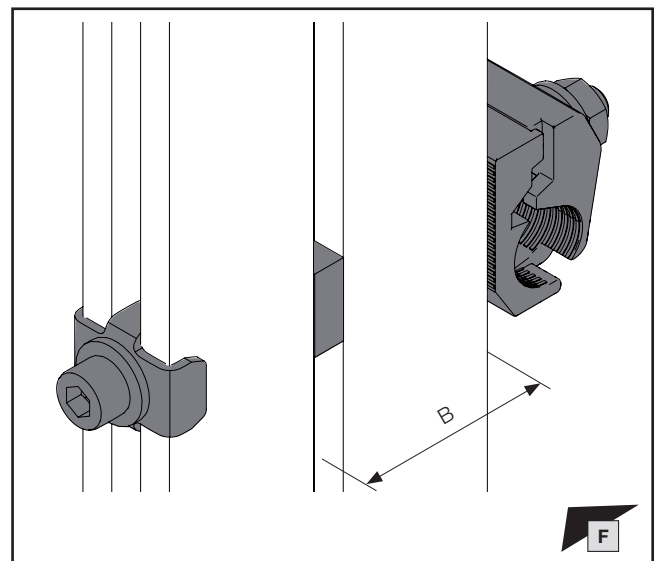
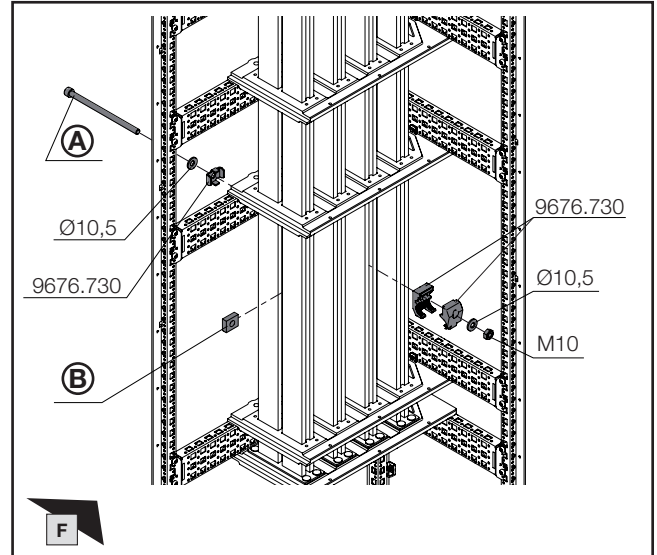
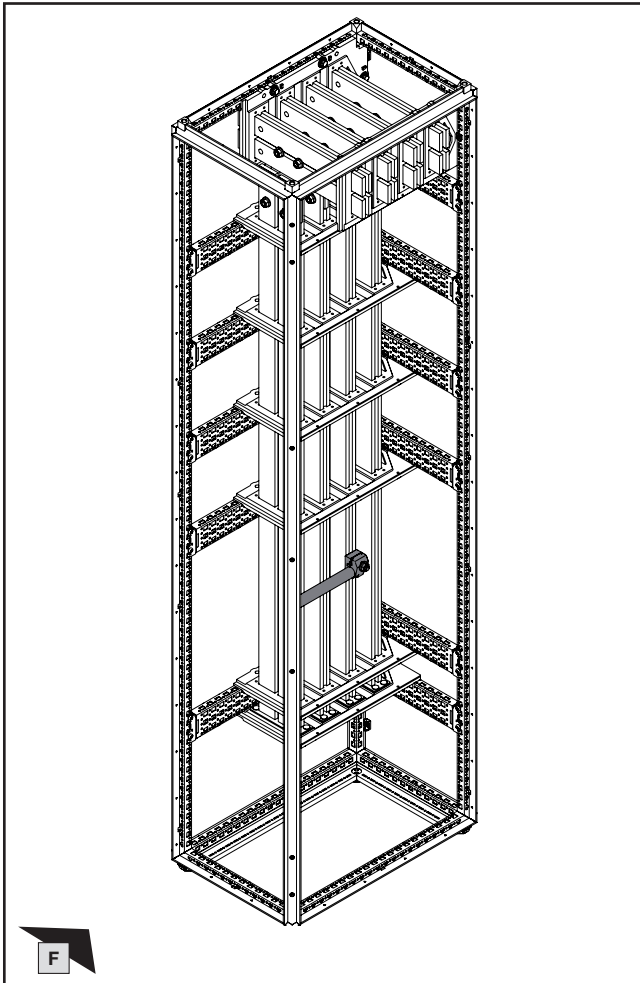
7. Montage Anschlusstechnik

7. Installing the connection system

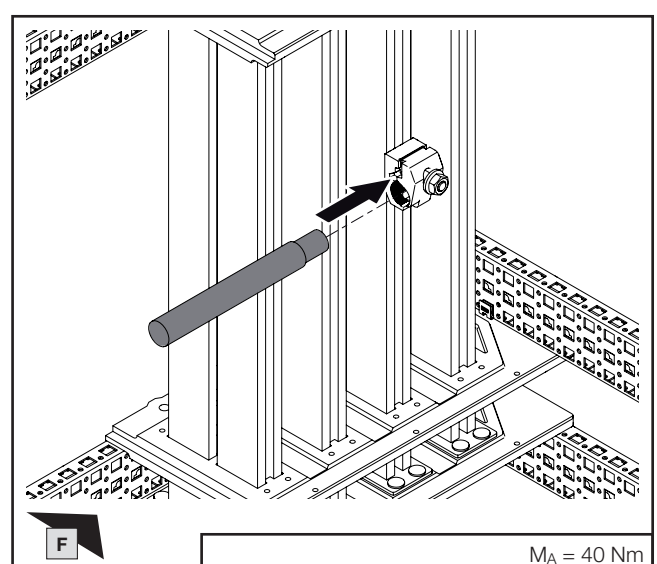
7. Montage des raccords



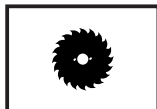
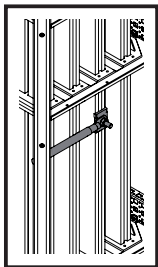
- 7.4 4 Verteilsammelschienen vertikal – Direktanschluss-klemme
- 7.4 4 vertical distribution busbars – Direct connection terminal
- 7.4 4 jeux de barres de distribution verticaux – borne de raccordement direct



Ausführung Version Modèle	B mm	Ⓐ Best.-Nr. Model No. Référence
M10x130	30	9676.813
M10x170	50	9676.817



M_A = 40 Nm



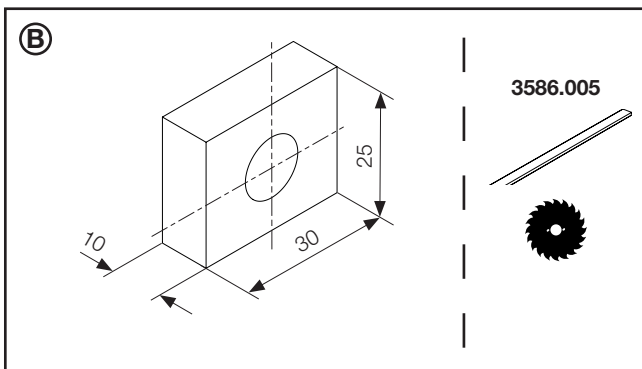
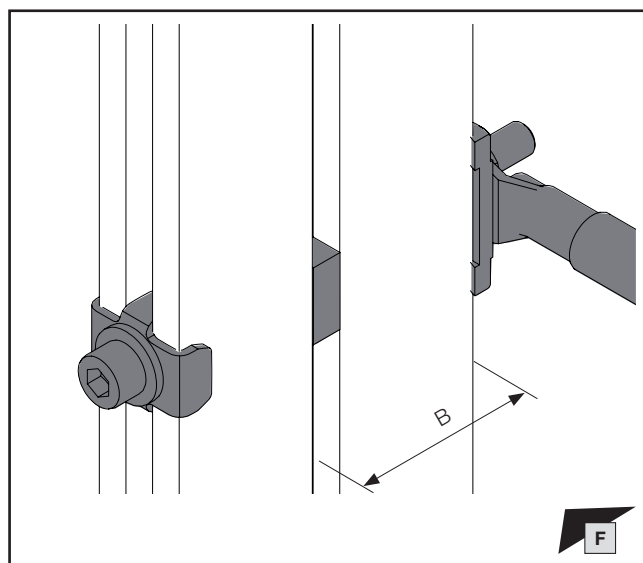
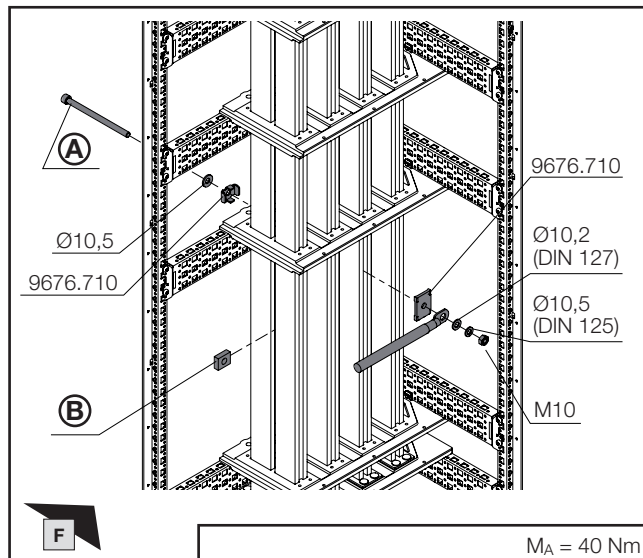
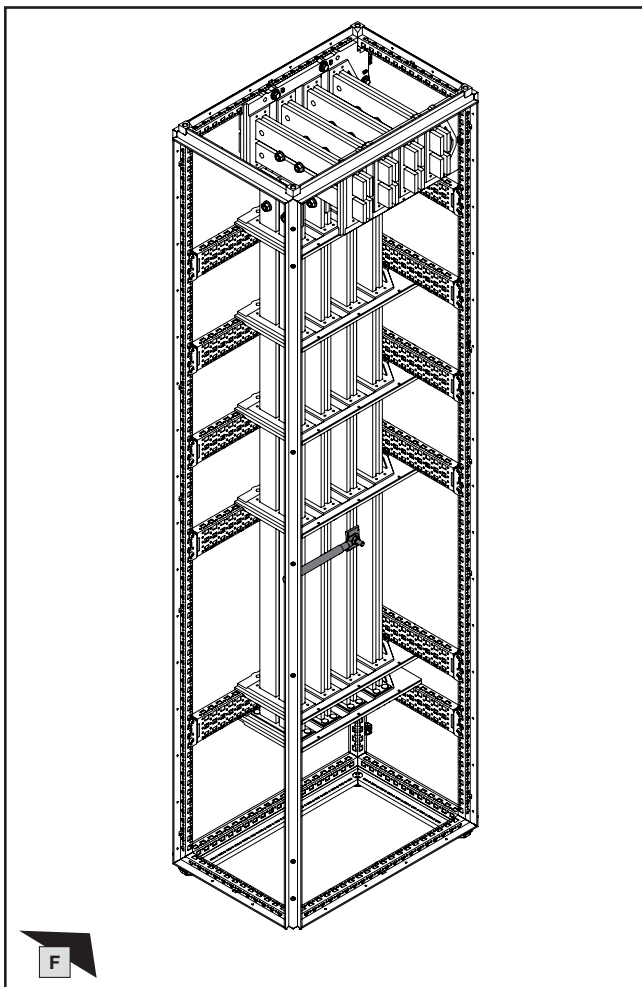
7. Montage Anschlusstechnik

7. Installing the connection system

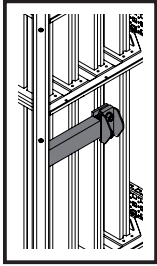
7. Montage des raccords



- 7.5 4 Verteilsammelschienen vertikal – Anschlussplatten für Bolzen M10
- 7.5 4 vertical distribution busbars – Connection plates for M10 bolts
- 7.5 4 jeux de barres de distribution verticaux – plaques de raccordement pour boulons M10



Ausführung Version Modèle	B mm	Ⓐ Best.-Nr. Model No. Référence
M10x110	30	9676.811
M10x150	50	9676.815



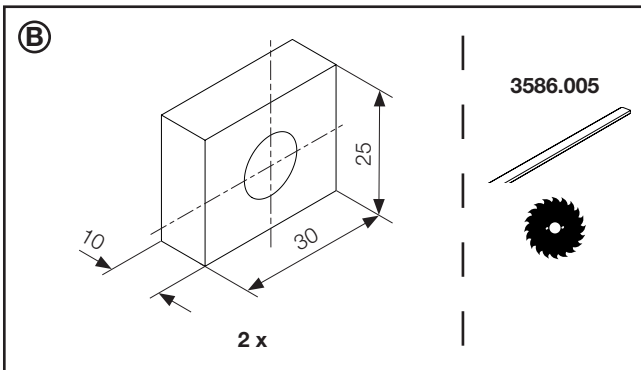
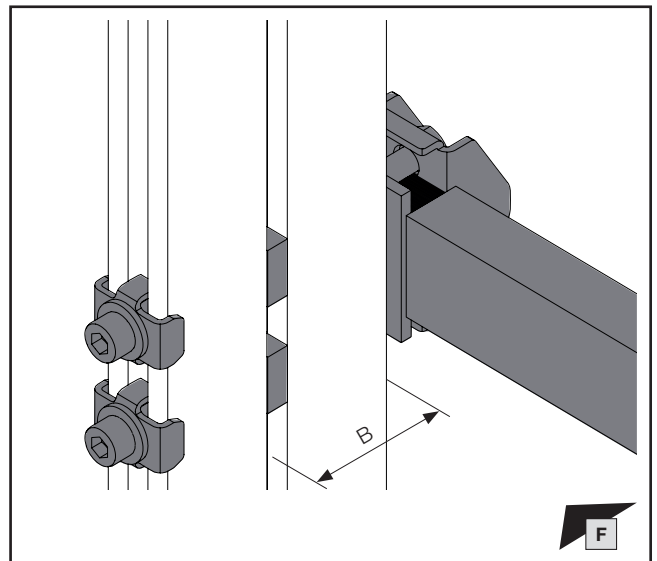
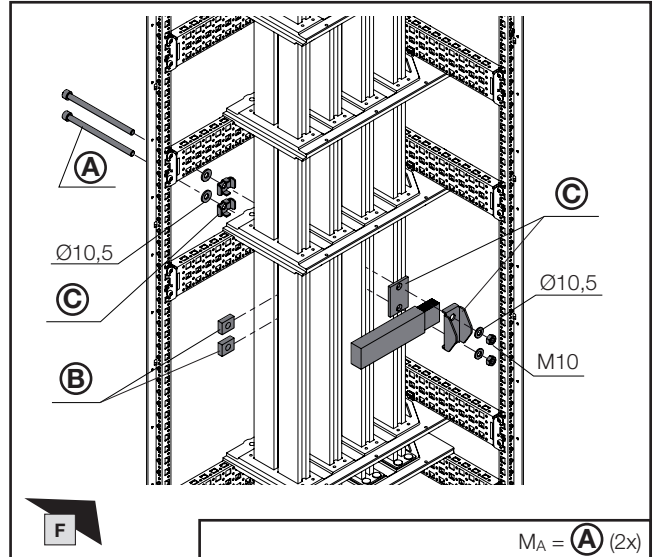
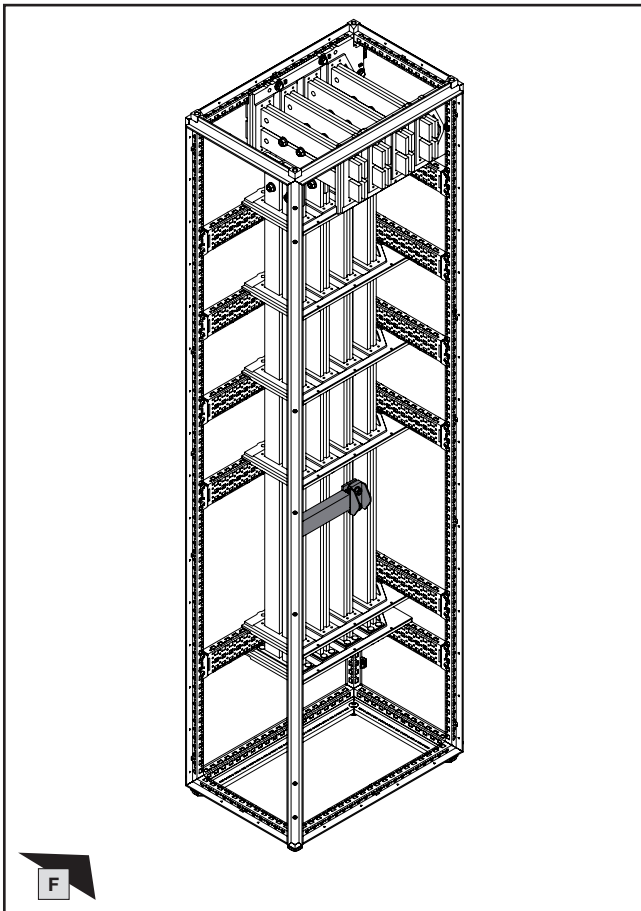
7. Montage Anschlusstechnik

7. Installing the connection system

7. Montage des raccordements

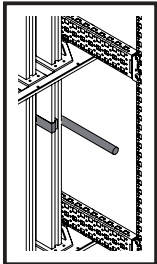


- 7.6 4 Verteilsammelschienen vertikal – Anschlussplatten zum Anschluss von lamellierten Flachkupferschienen
- 7.6 4 vertical distribution busbars – Connection plates for connecting laminated flat copper bars
- 7.6 4 jeux de barres de distribution verticaux – plaques de raccordement pour raccorder les barres de cuivre plates lamellées



Ausführung Version Modèle	B mm	$\textcircled{A}$ Best.-Nr. Model No. Référence
M10x120	30	9676.812
M10x160	50	9676.816

$\textcircled{A}$ M_A Nm	$\textcircled{C}$ Best.-Nr. Model No. Référence
20	9676.747
25	9676.748
30	9676.749



SW16/
SW17

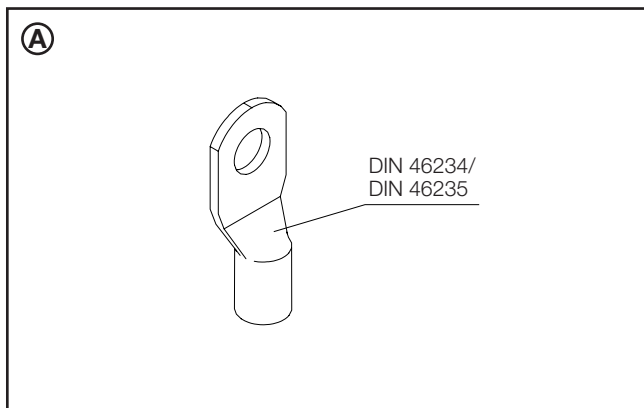
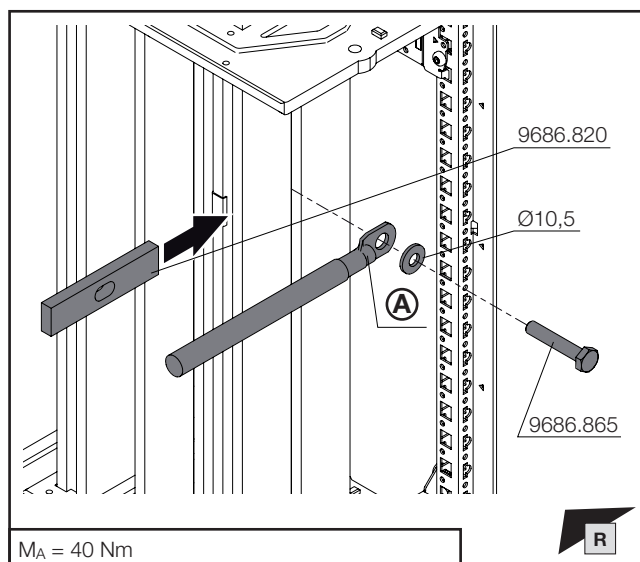
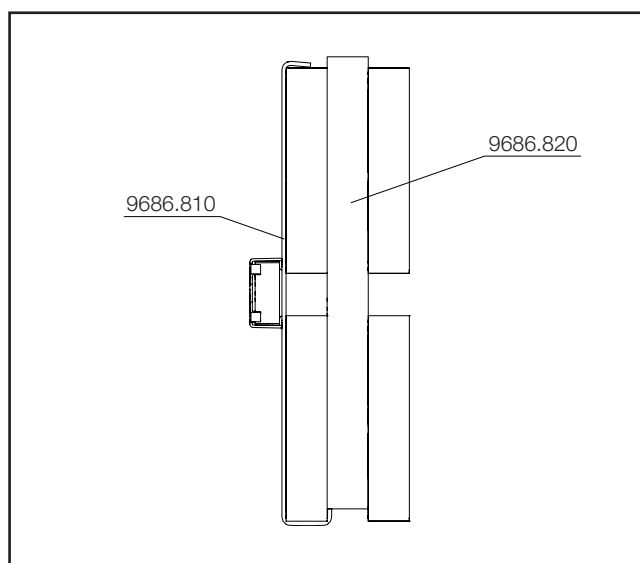
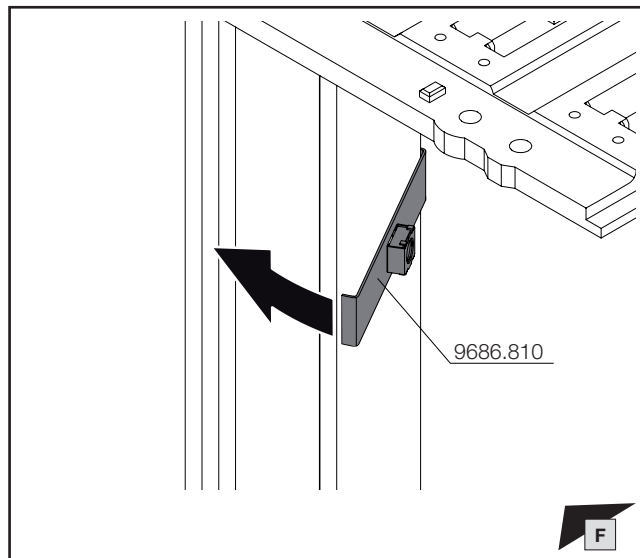
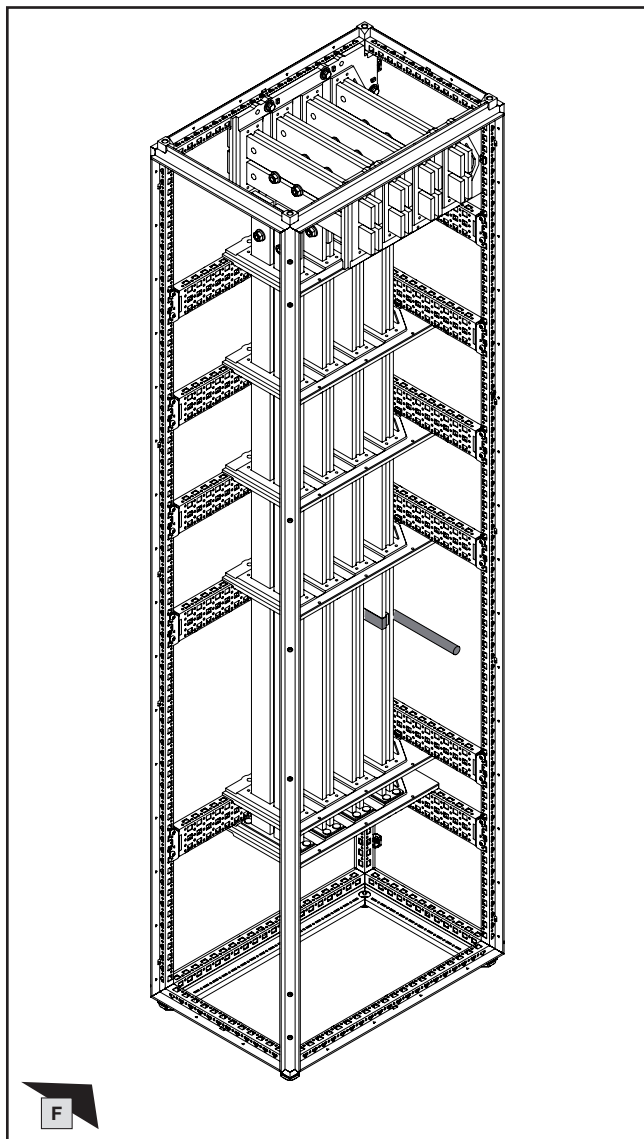


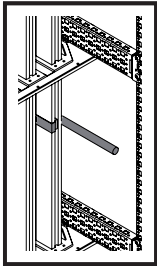
DE EN FR

7. Montage Anschlusstechnik 7. Installing the connection system 7. Montage des raccordements



- 7.7 4 Verteilsammelschienen vertikal – Anschluss-Set mit Füllstück
7.7 4 vertical distribution busbars – Connection set with filler piece
7.7 4 jeux de barres de distribution verticaux – kit de raccordement avec obturateur



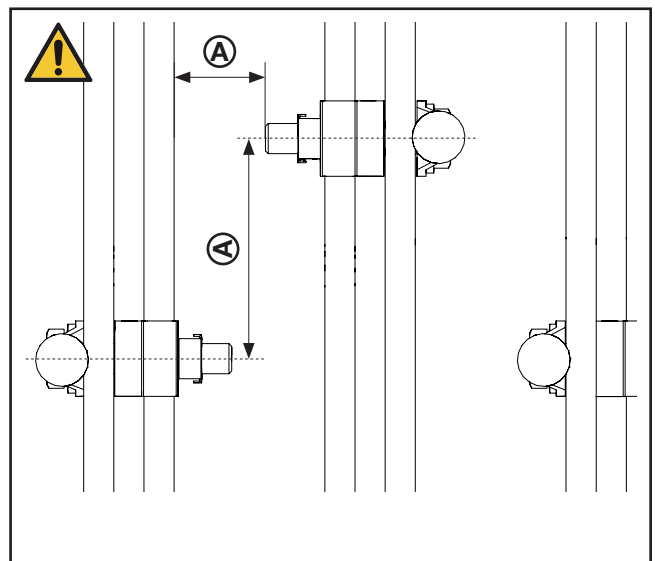
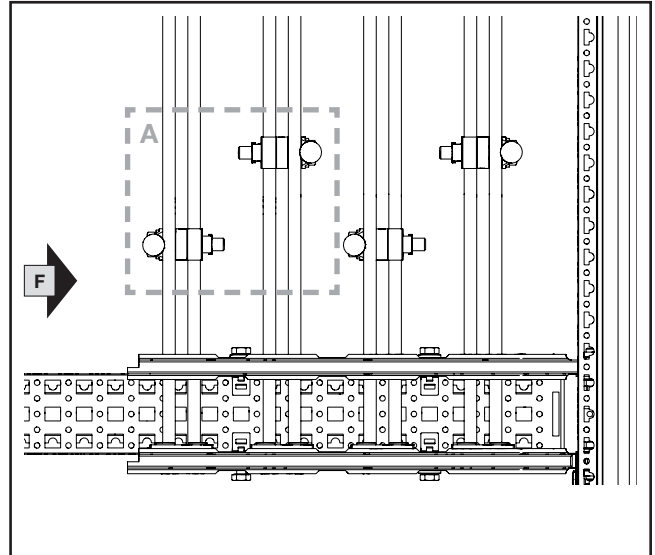
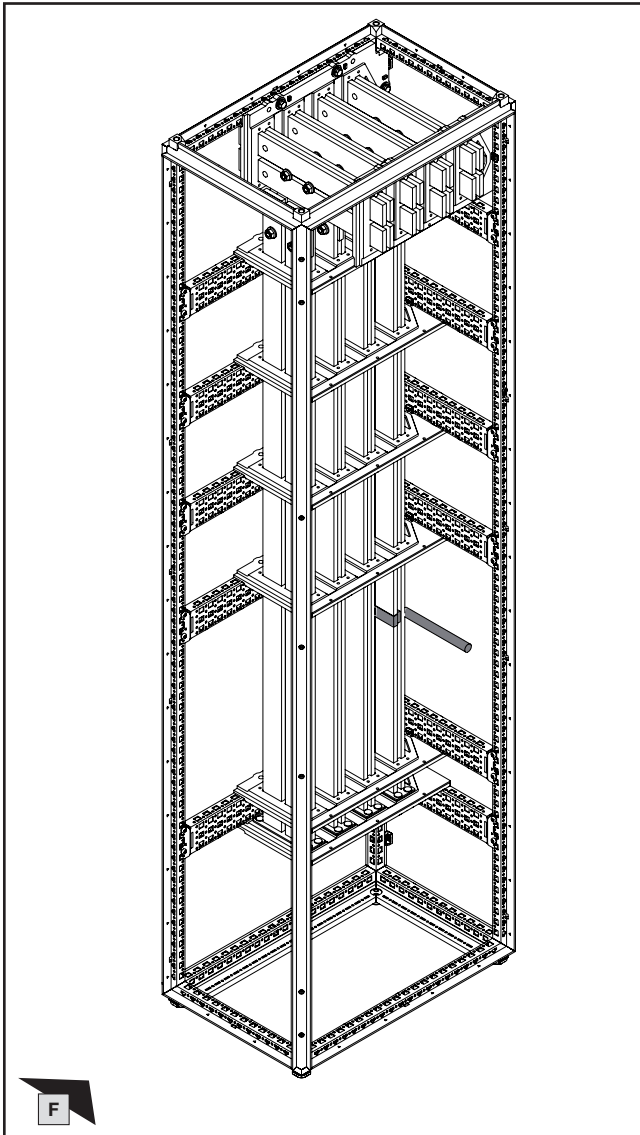


7. Montage Anschlusstechnik

7. Installing the connection system

7. Montage des raccordements

- 7.7 4 Verteilsammelschienen vertikal – Anschluss-Set mit Füllstück
- 7.7 4 vertical distribution busbars – Connection set with filler piece
- 7.7 4 jeux de barres de distribution verticaux – kit de raccordement avec obturateur

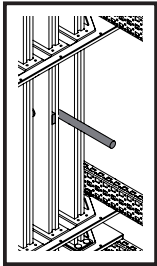


Hinweis / Note / Remarque (A)

Die Abstände für Luft- und Kriechstrecken sind je nach Anwendungsfall auszulegen!

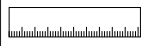
The clearances and creepage distances should be tailored to the individual application.

Les distances pour les entrefers et les lignes de fuite doivent être déterminées en fonction de l'application !



SW16/
SW17

mm

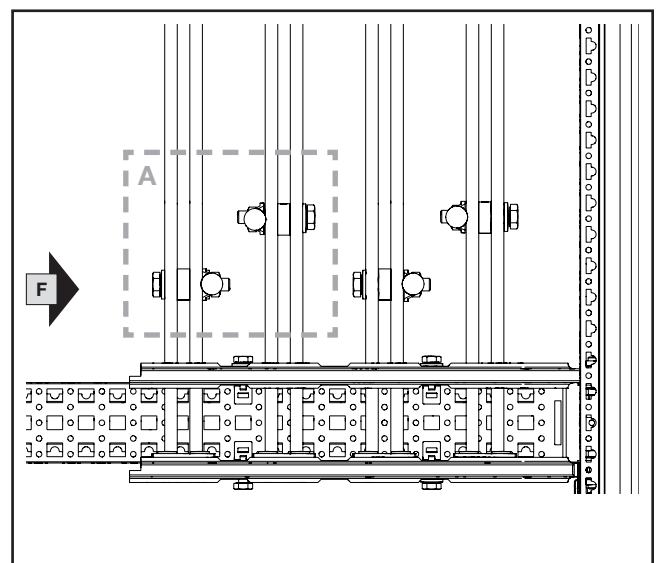
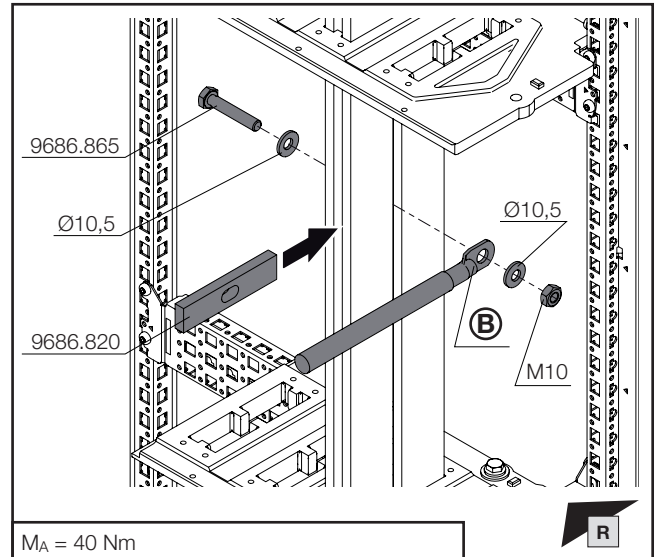
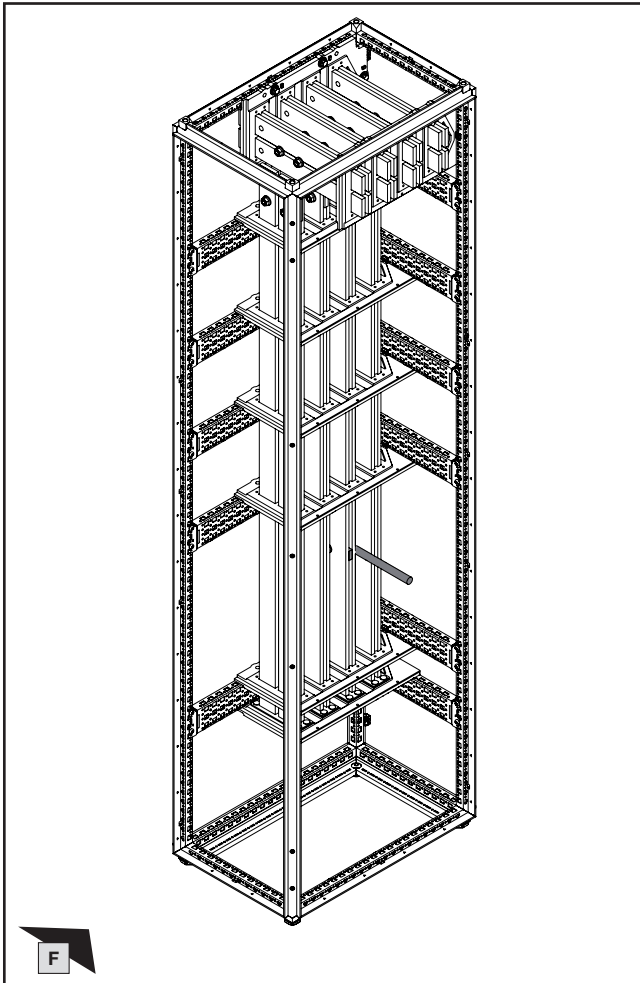


DE EN FR

7. Montage Anschlusstechnik 7. Installing the connection system 7. Montage des raccordements



- 7.8 4 Verteilsammelschienen vertikal – Füllstück und Schraubverbindung
7.8 4 vertical distribution busbars – Filler piece and screw connection
7.8 4 jeux de barres de distribution verticaux – obturateur et connexion vissée



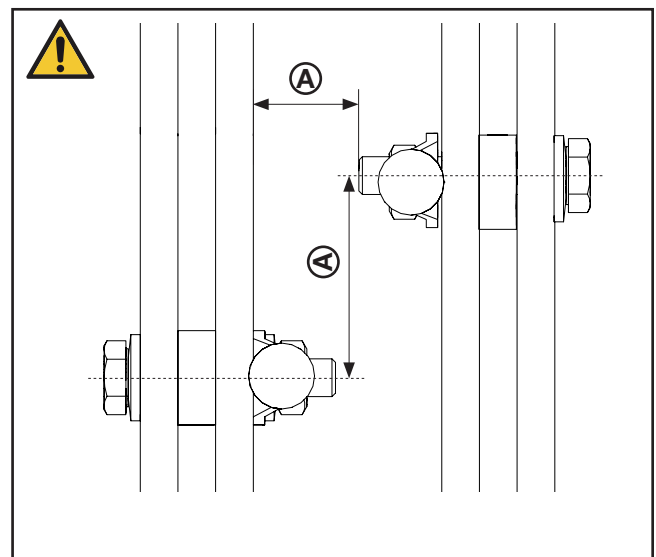
Hinweis / Note / Remarque (A)

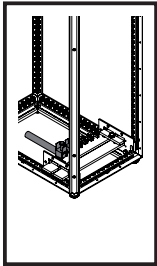
Die Abstände für Luft- und Kriechstrecken sind je nach Anwendungsfall anzulegen!
The clearances and creepage distances should be tailored to the individual application.
Les distances pour les entrefers et les lignes de fuite doivent être déterminées en fonction de l'application !

B



DIN 46234/
DIN 46235





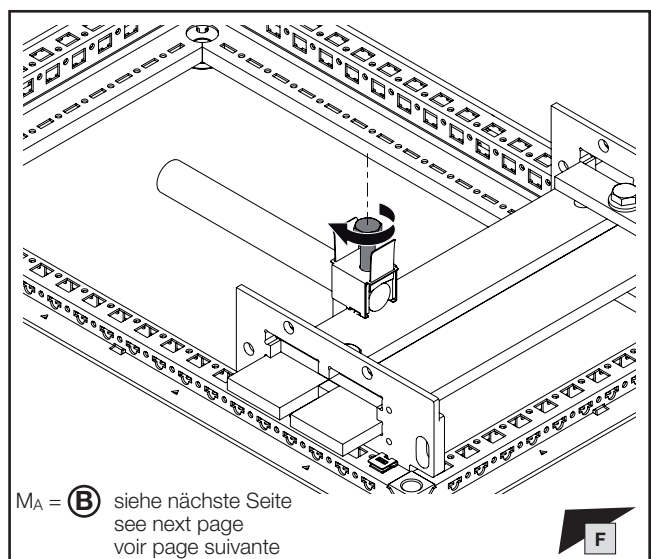
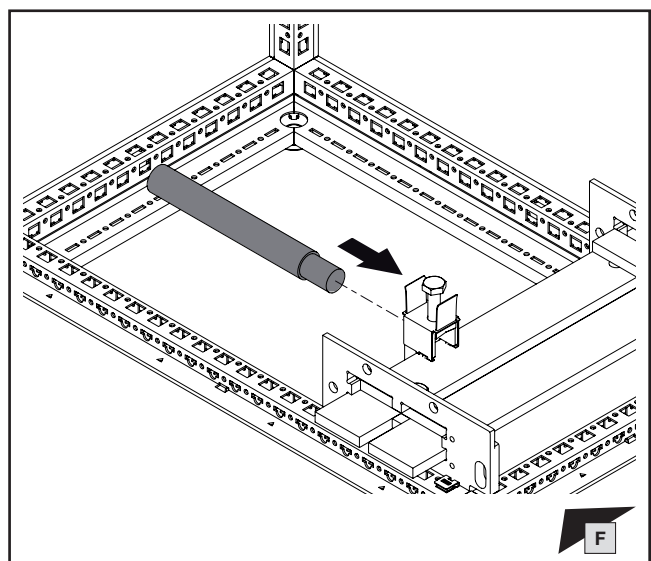
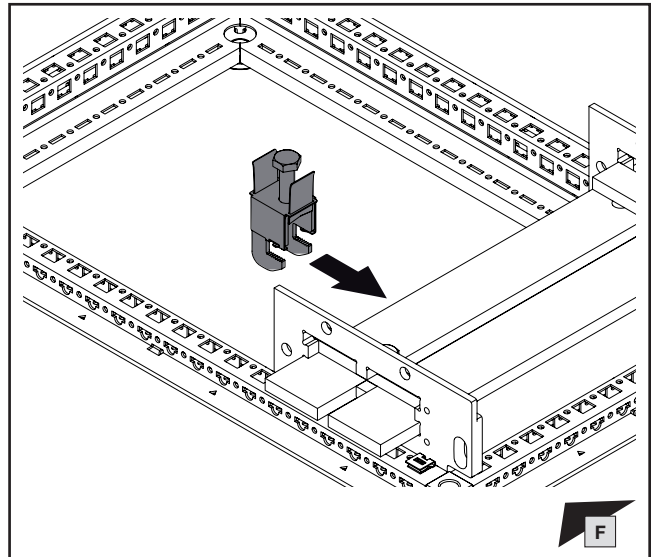
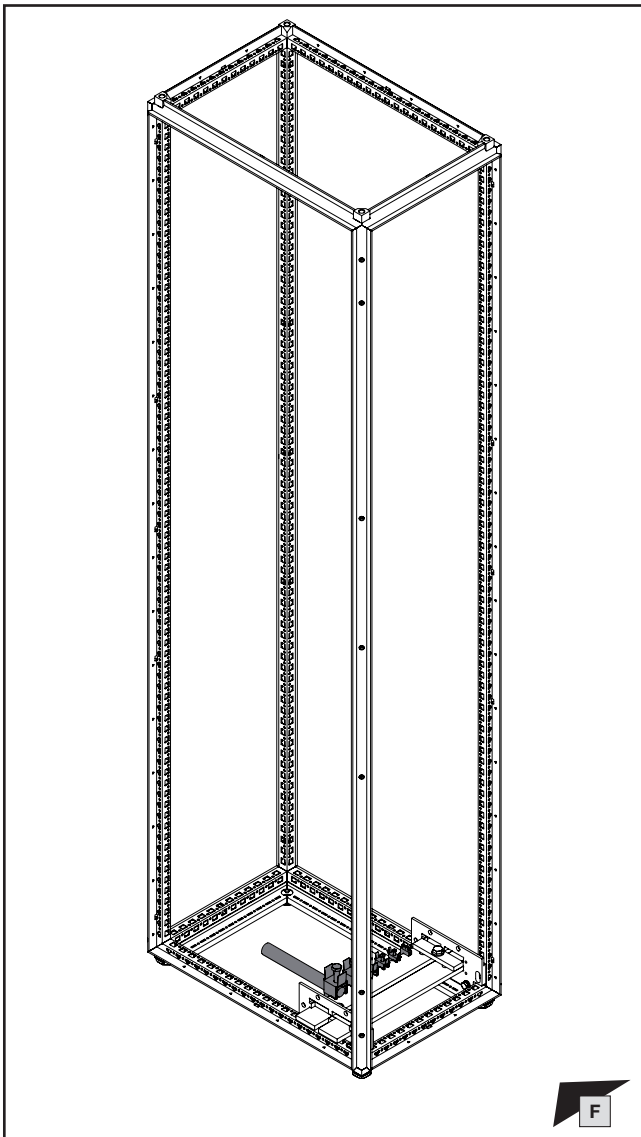
7. Montage Anschlusstechnik

7. Installing the connection system

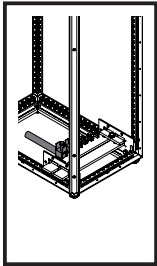
7. Montage des raccordements



- 7.9 2 Sammelschienen N – Leiteranschlussklemmen
 7.9 2 N busbars – Conductor connection clamps
 7.9 2 jeux de barres Neutre – bornes pour raccordement de câbles



MA = **(B)** siehe nächste Seite
 see next page
 voir page suivante

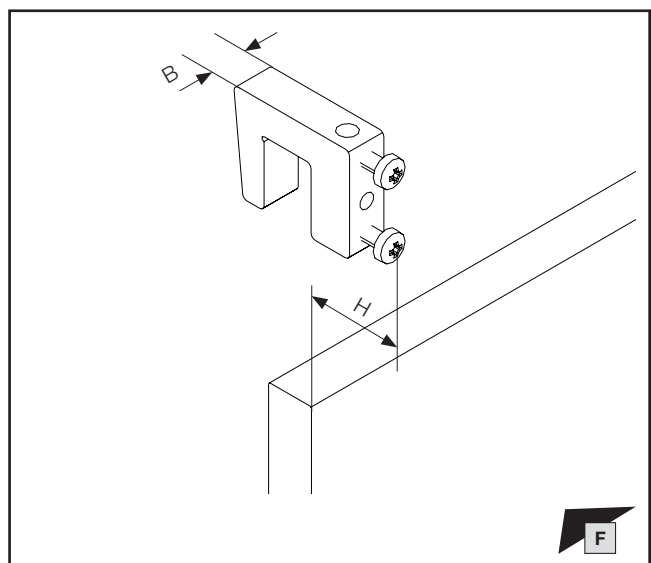
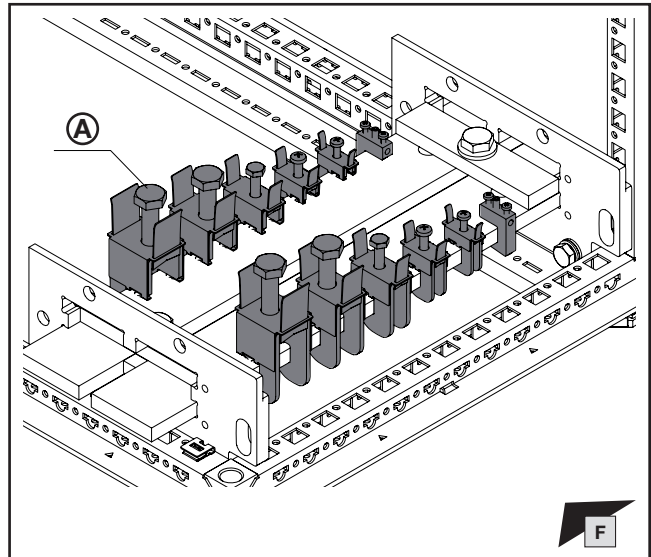
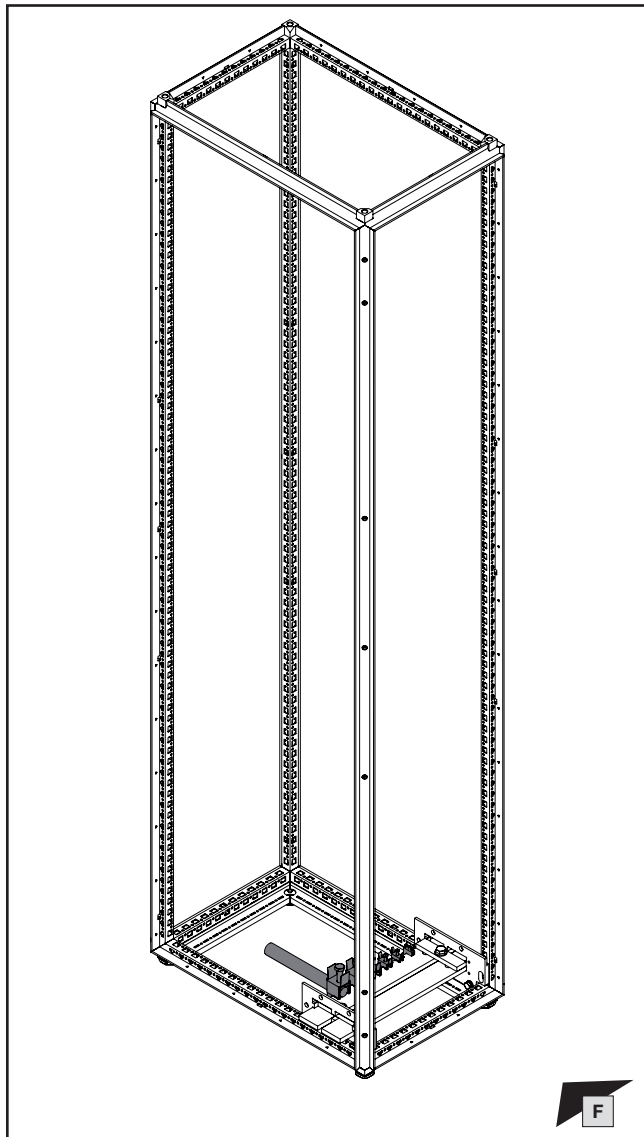


7. Montage Anschlusstechnik

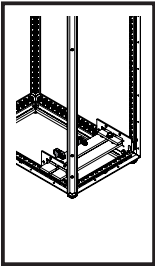
7. Installing the connection system

7. Montage des raccordements

- 7.9 2 Sammelschienen N – Leiteranschlussklemmen
 7.9 2 N busbars – Conductor connection clamps
 7.9 2 jeux de barres Neutre – bornes pour raccordement de câbles



Schienenstärke Bar thickness Épaisseur des barres mm	Rundleiter Round conductor Câble cylindrique mm ²	Klemmraum Clamping area Plage de serrage B x H mm	Ⓑ _A M _A Nm	Breite Width Largeur B mm	Höhe Height Hauteur H mm		Ⓐ Best.-Nr. Model No. Référence
					min.	max.	
10	1 – 4	–	2	11,0	17	23	3455.500
10	2,5 – 16	8x8	3	14,0	22	29	3456.500
10	16 – 50	10,5x11	8	18,5	26	39	3457.500
10	35 – 70	16,5x15	12	24,5	39	57	3458.500
10	70 – 185	22,5x20	15	30,5	44	66	3459.500
10	1 – 4	–	2	8,0	–	–	3555.000



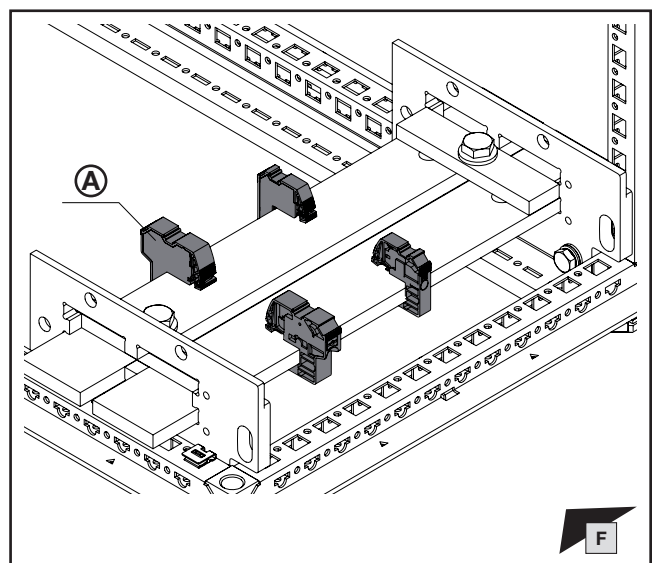
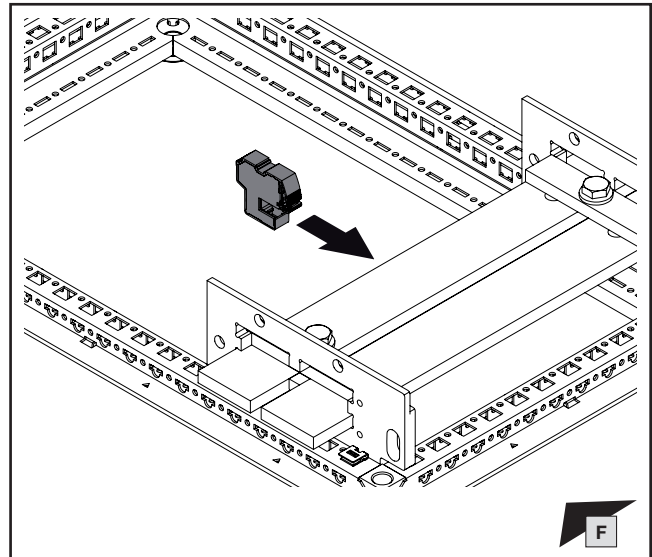
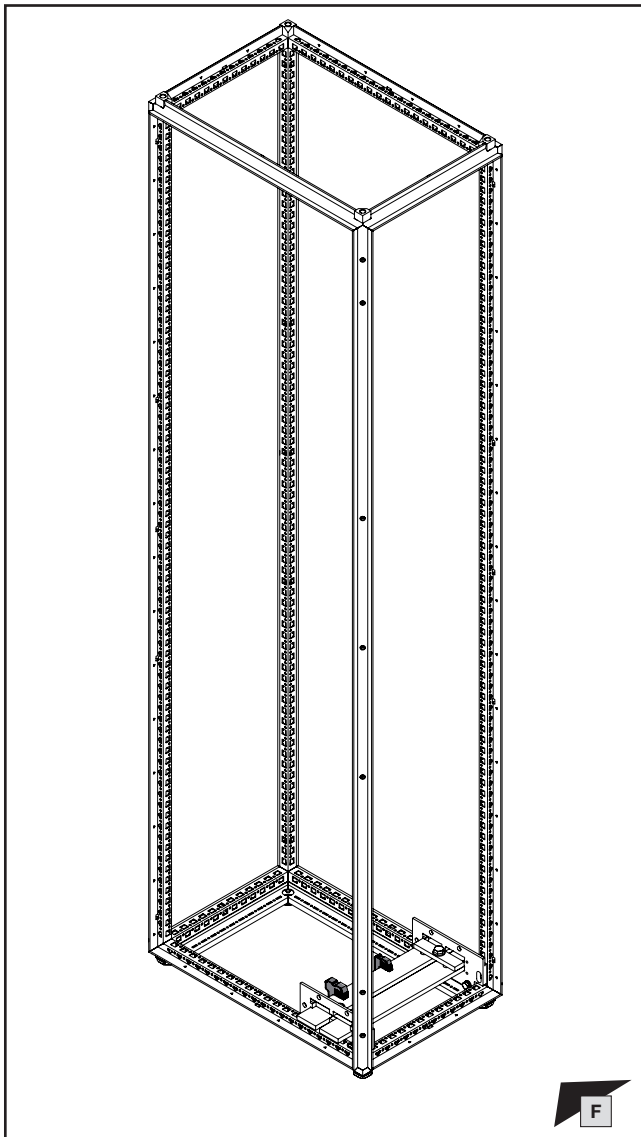
7. Montage Anschlusstechnik

7. Installing the connection system

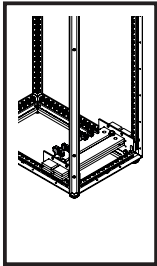
7. Montage des raccordements



- 7.10 2 Sammelschienen N – Leiteranschlussklemmen Push-In
 7.10 2 N busbar supports – Conductor connection clamps, push-in
 7.10 2 jeux de barres Neutre – bornes pour raccordement de câbles Push-in



Schienenstärke Bar thickness Épaisseur des barres mm	Rundleiter eindräftig Round conductor, single-wire Câble cylindrique unifilaire mm ²	Rundleiter mehr- dräftig Round conductor, multi-wire Câble cylindrique multifilaire mm ²	Rundleiter feindräftig, ohne Aderendhülse Round conductor, fine wire, without wire end ferrule Câble cylindrique à fils de faible diamètre, sans embout mm ²	Rundleiter feindräftig, mit Aderendhülse Round conductor, fine wire, with wire end ferrule Câble cylindrique à fils de faible diamètre, avec embout mm ²	A Best.-Nr. Model No. Référence
10	0,5 – 6	0,5 – 4	0,5 – 4	0,5 – 4	3455.505
10	1,5 – 16	1,5 – 16	1,5 – 16	1,5 – 16	3456.505



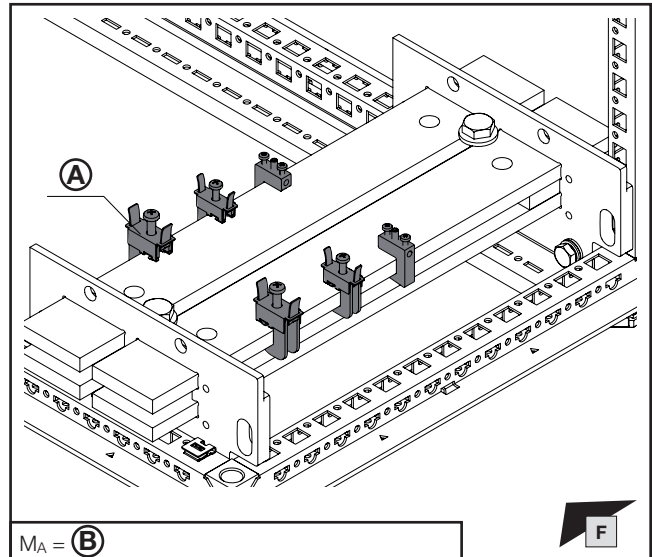
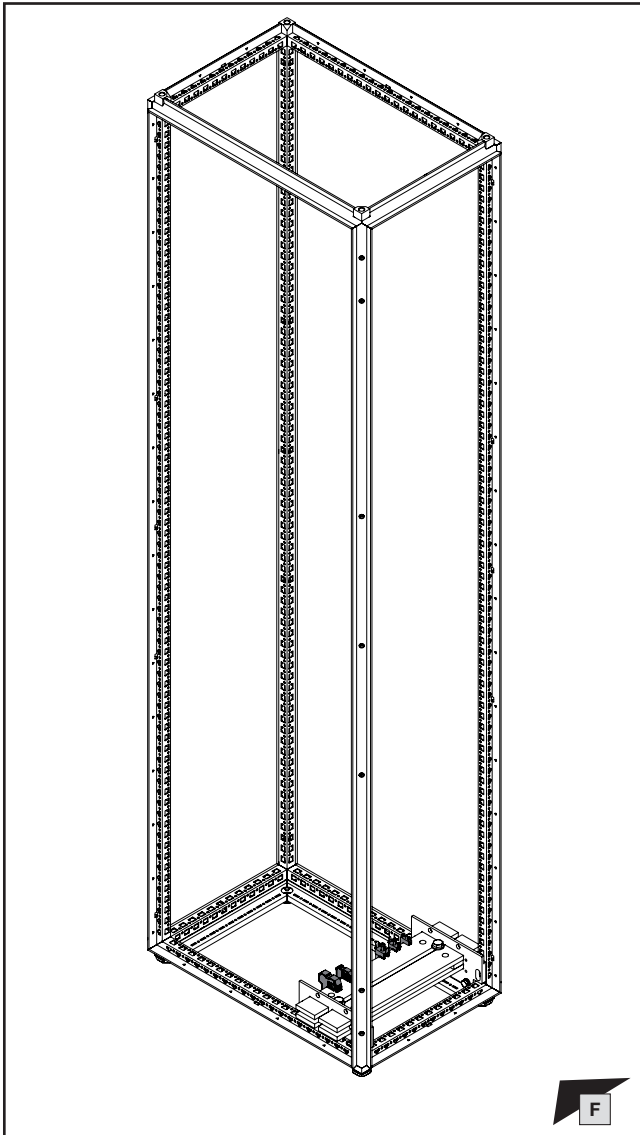
7. Montage Anschlusstechnik

7. Installing the connection system

7. Montage des raccordements



- 7.11 4 Sammelschienen N – Leiteranschlussklemmen
 7.11 4 N busbars – Conductor connection clamps
 7.11 4 jeux de barres Neutre – bornes pour raccordement de câbles

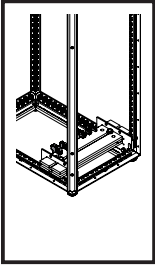


Hinweis / Note / Remarque **A**

Montage Leiteranschlussklemmen: siehe Kapitel 7.9
 Installing the conductor connection clamps: see chapter 7.9

Montage des bornes pour raccordement de câbles : voir chapitre 7.9

Schienenstärke Bar thickness Épaisseur des barres mm	Rundleiter Round conductor Câble cylindrique mm ²	Klemmraum Clamping area Plage de serrage B x H mm	B M _A Nm	Breite Width Largeur B mm	Höhe Height Hauteur H mm		A Best.-Nr. Model No. Référence
					min.	max.	
10	1 – 4	–	2	11,0	17	23	3455.500
10	2,5 – 16	8x8	3	14,0	22	29	3456.500
10	1 – 4	–	2	8,0	–	–	3555.000

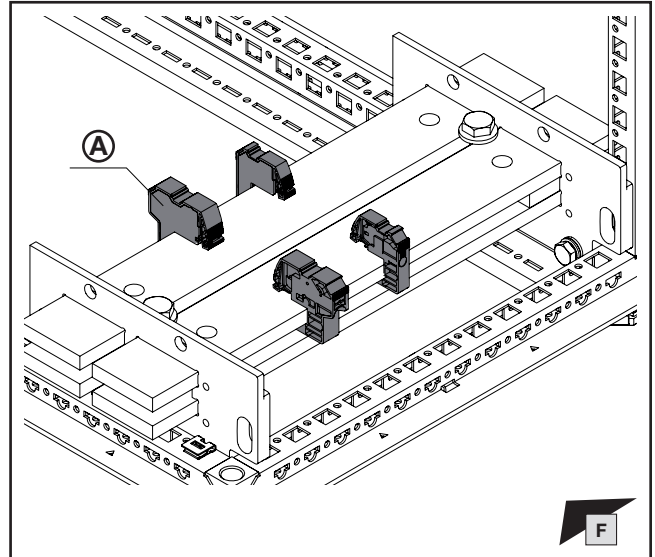
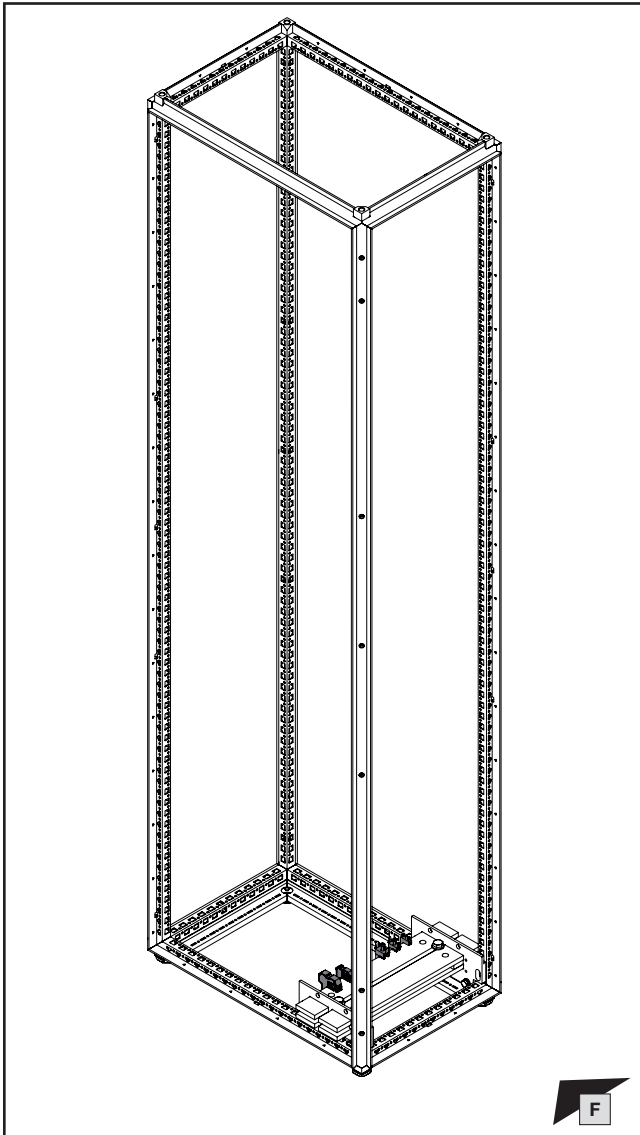


7. Montage Anschlusstechnik

7. Installing the connection system

7. Montage des raccordements

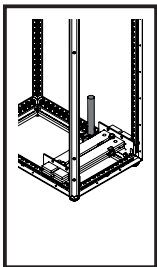
- 7.12 4 Sammelschienen N – Leiteranschlussklemmen Push-In
 7.12 4 N busbar supports – Conductor connection clamps, push-in
 7.12 4 jeux de barres Neutre – bornes pour raccordement de câbles Push-in



Hinweis / Note / Remarque **A**

Montage Leiteranschlussklemmen Push-In: siehe Kapitel 7.10
Installing the conductor connection clamps, push-in: see chapter 7.10
Montage des bornes pour raccordement de câbles Push-in : voir chapitre 7.10

Schienenstärke Bar thickness Épaisseur des barres mm	Rundleiter eindräftig Round conductor, single-wire Câble cylindrique unifilaire mm ²	Rundleiter mehr- dräftig Round conductor, multi-wire Câble cylindrique multifilaire mm ²	Rundleiter feindräftig, ohne Aderendhülse Round conductor, fine wire, without wire end ferrule Câble cylindrique à fils de faible diamètre, sans embout mm ²	Rundleiter feindräftig, mit Aderendhülse Round conductor, fine wire, with wire end ferrule Câble cylindrique à fils de faible diamètre, avec embout mm ²	A Best.-Nr. Model No. Référence
10	0,5 – 6	0,5 – 4	0,5 – 4	0,5 – 4	3455.505
10	1,5 – 16	1,5 – 16	1,5 – 16	1,5 – 16	3456.505



SW16/
SW17

IS8

11,5 mm

mm

DE EN FR

7. Montage Anschlussstechnik

7. Installing the connection system

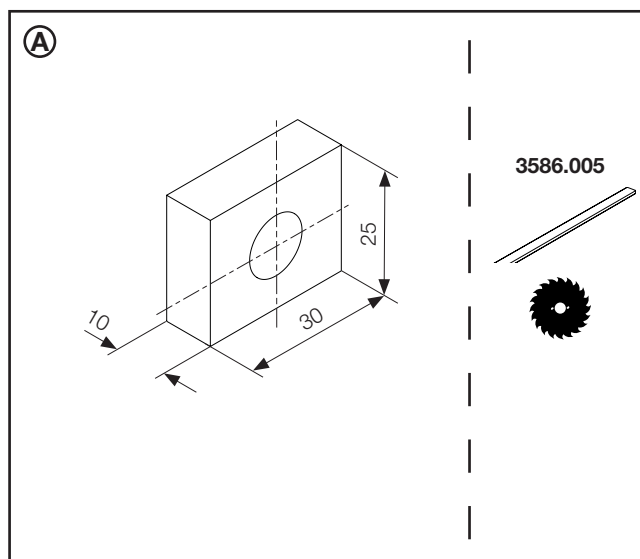
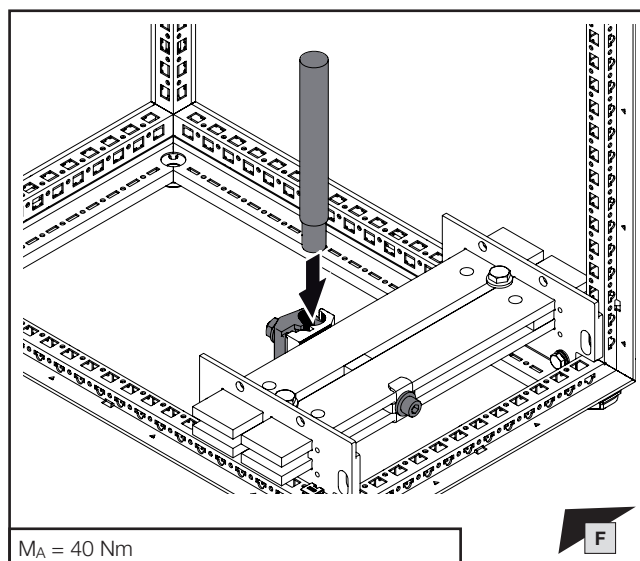
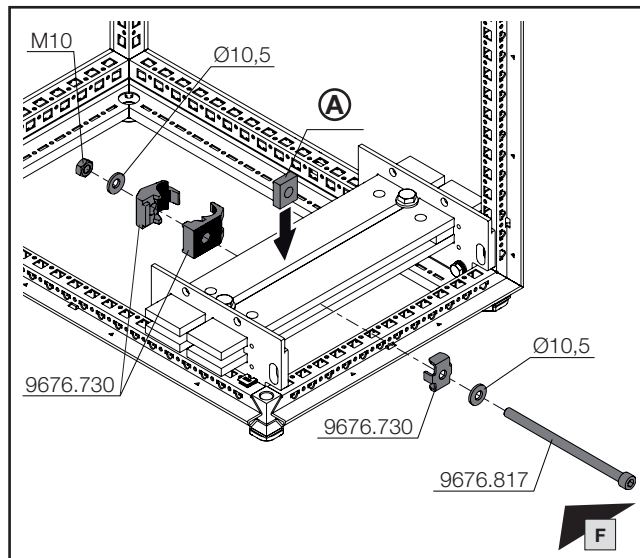
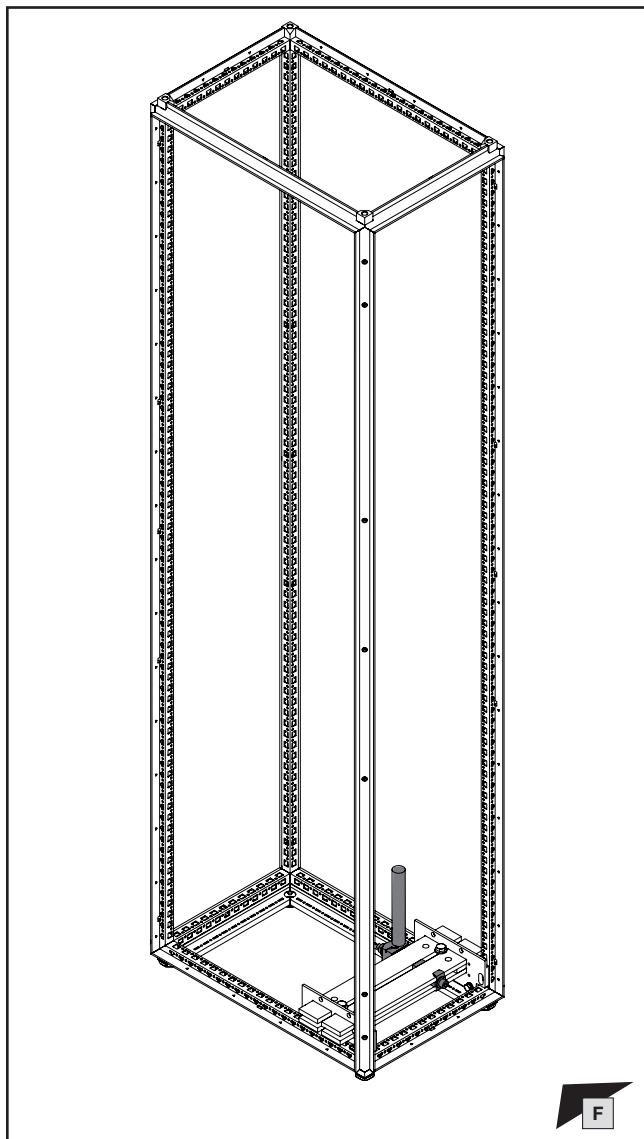
7. Montage des raccordements

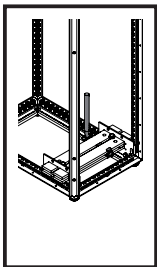


7.13 4 Sammelschienen N – Direktanschlussklemme

7.13 4 N busbars – Direct connection terminal

7.13 4 jeux de barres Neutre – borne de raccordement direct





SW16/
SW17

IS8

11,5 mm

mm

DE EN FR

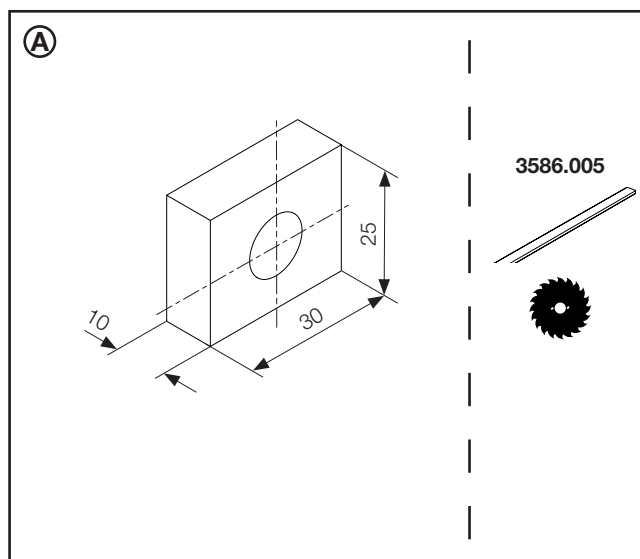
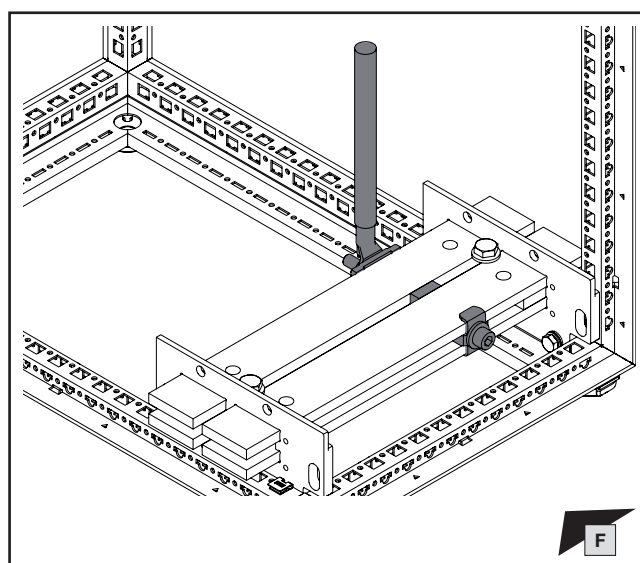
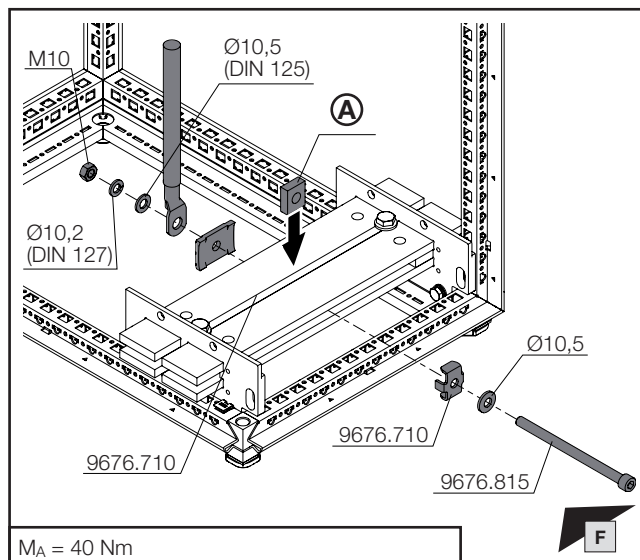
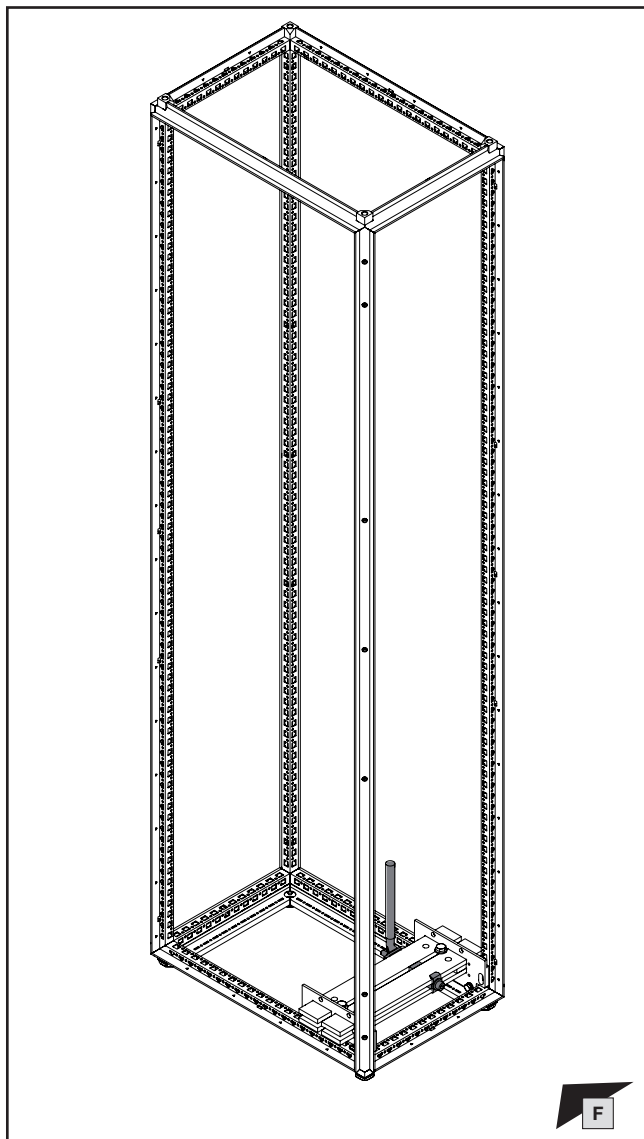
7. Montage Anschlussstechnik

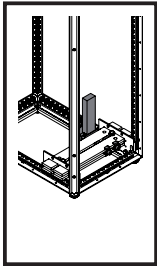
7. Installing the connection system

7. Montage des raccordements



- 7.14 4 Sammelschienen N – Anschlussplatten für Bolzen M10
 7.14 4 N busbars – Connection plates for M10 bolts
 7.14 4 jeux de barres Neutre – plaques de raccordement pour boulons M10



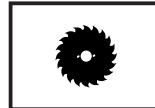


SW16/
SW17

IS8

11,5 mm

mm



DE EN FR

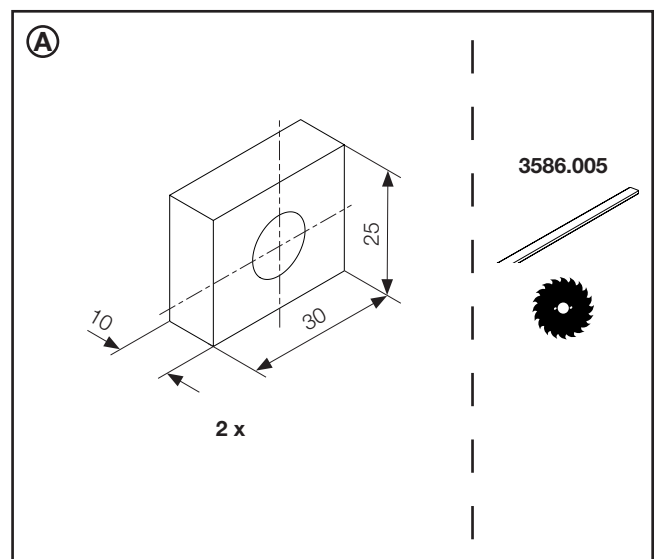
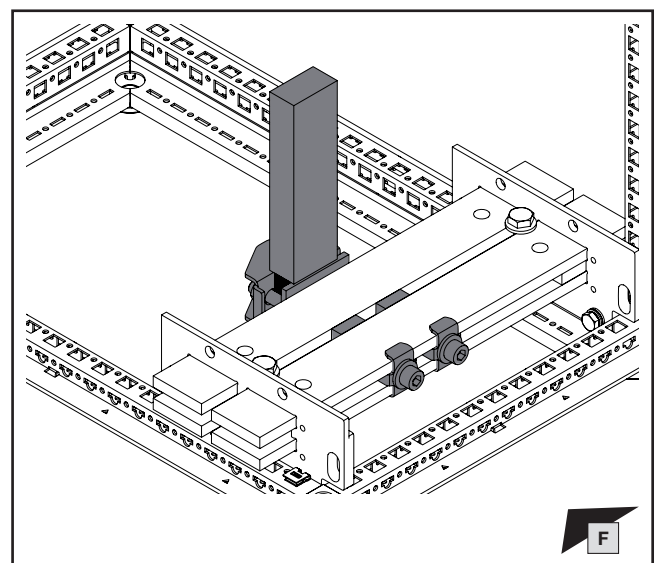
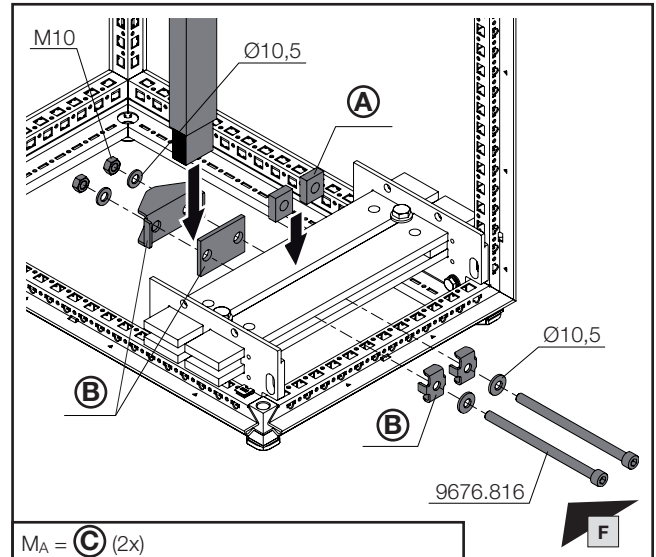
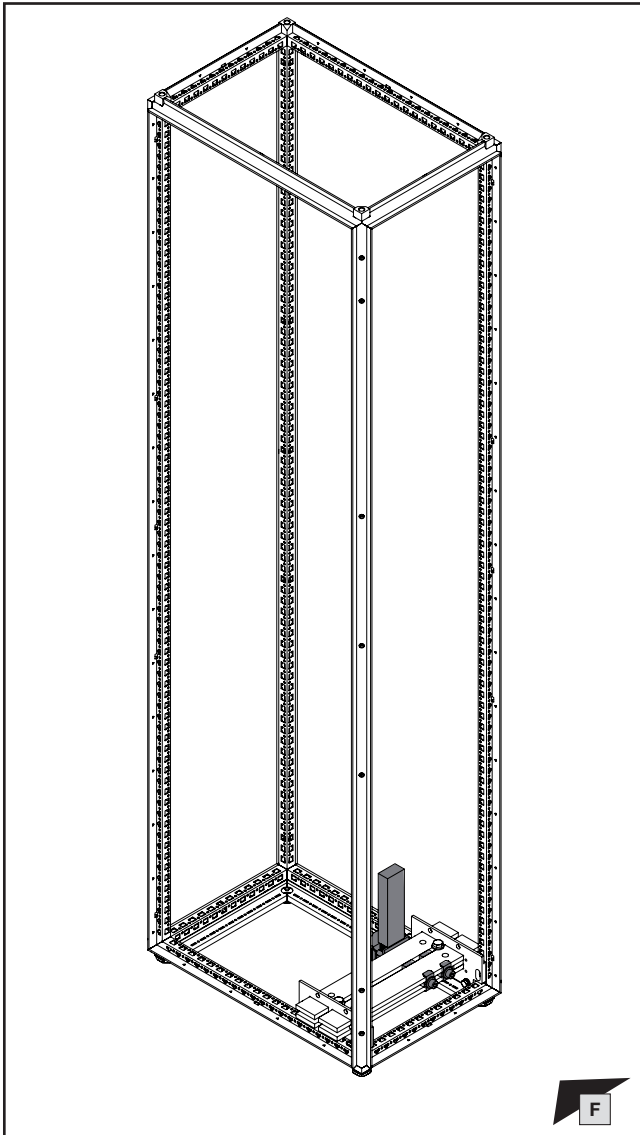
7. Montage Anschlusstechnik

7. Installing the connection system

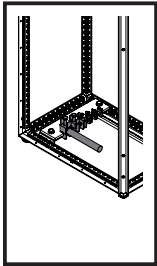
7. Montage des raccordements



- 7.15 4 Sammelschienen N – Anschlussplatten zum Anschluss von lamellierten Flachkupferschienen
- 7.15 4 busbars N – Connection plates for connecting laminated flat copper bars
- 7.15 4 jeux de barres Neutre – plaques de raccordement pour raccorder les barres de cuivre plates lamellées



C M _A Nm	B Best.-Nr. Model No. Référence
20 Nm	9676.747
25 Nm	9676.748
30 Nm	9676.749



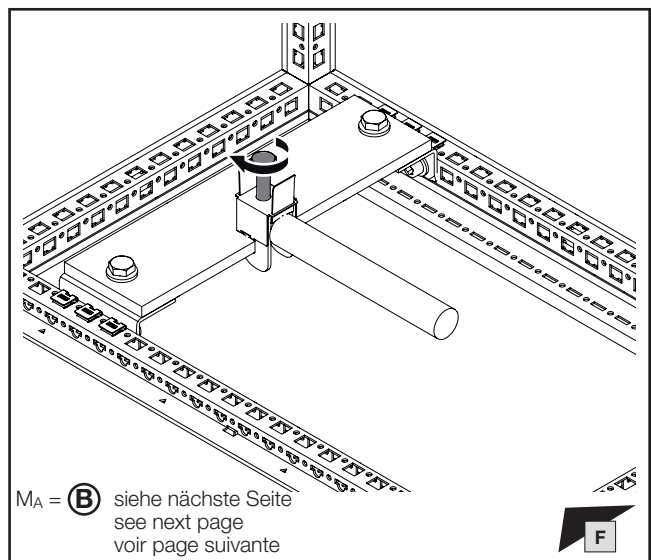
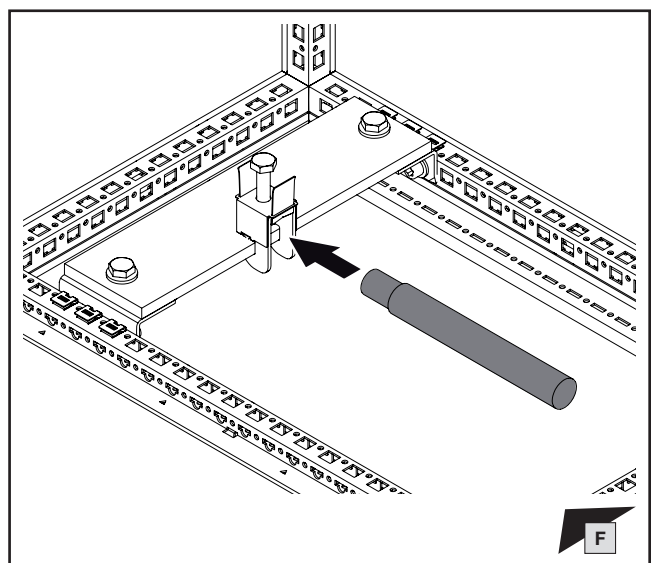
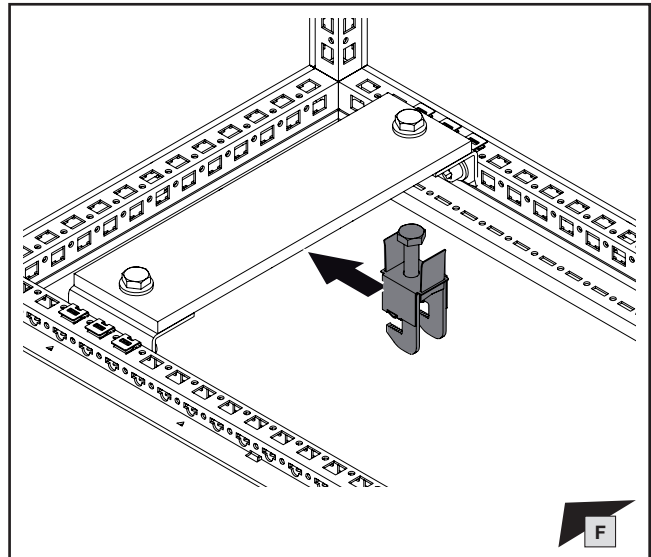
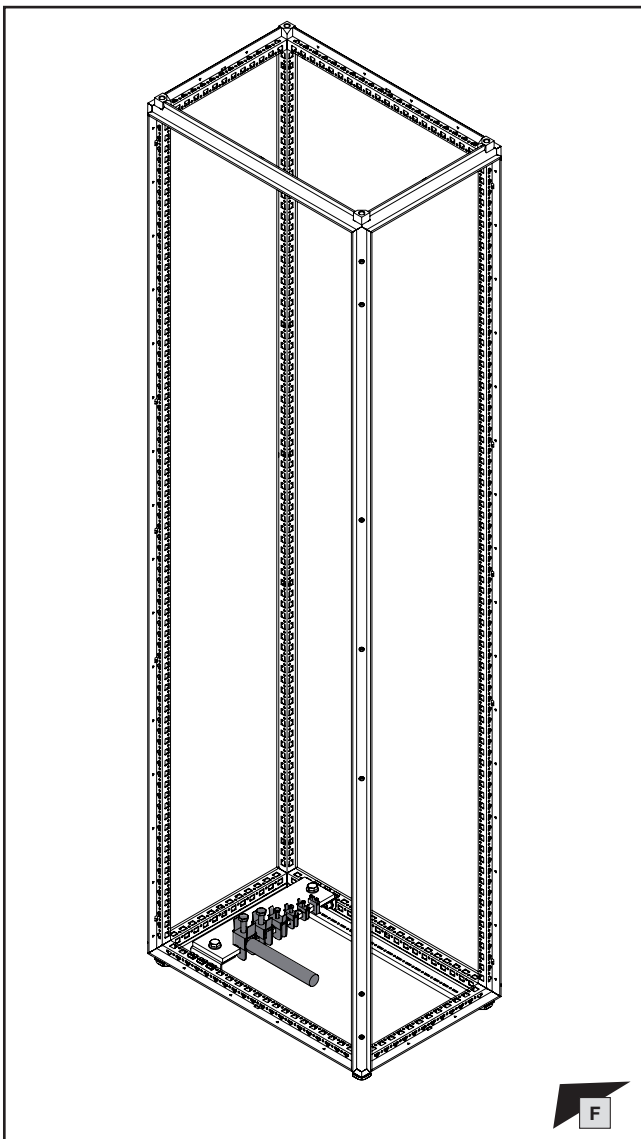
7. Montage Anschlusstechnik

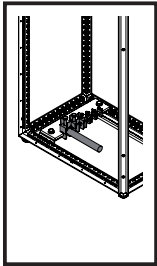
7. Installing the connection system

7. Montage des raccordements



- 7.16 1 Sammelschiene PE/PEN bis 1x80 mm – Leiteranschlussklemmen für 5 und 10 mm Schienenbreite
- 7.16 1 PE/PEN busbar up to 1x80 mm – Conductor connection clamps for 5 and 10 mm bar width
- 7.16 1 jeu de barres Terre/Terre-Neutre de dimensions jusqu'à 1x80 mm – bornes pour raccordement de câbles pour largeur de barre de 5 et 10 mm



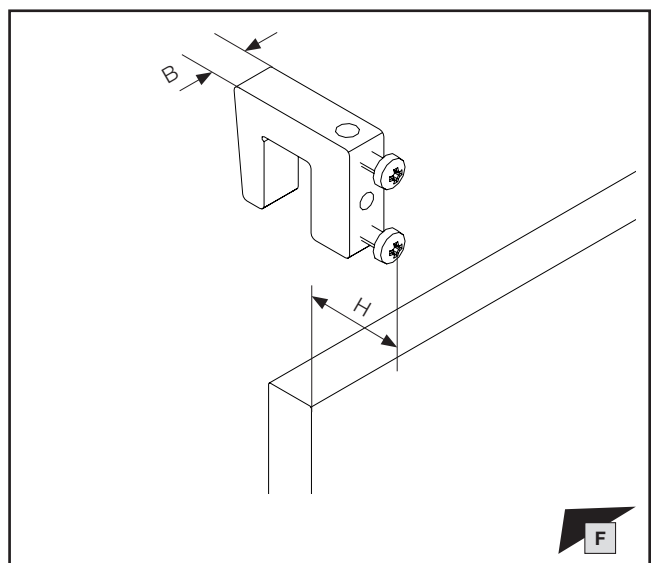
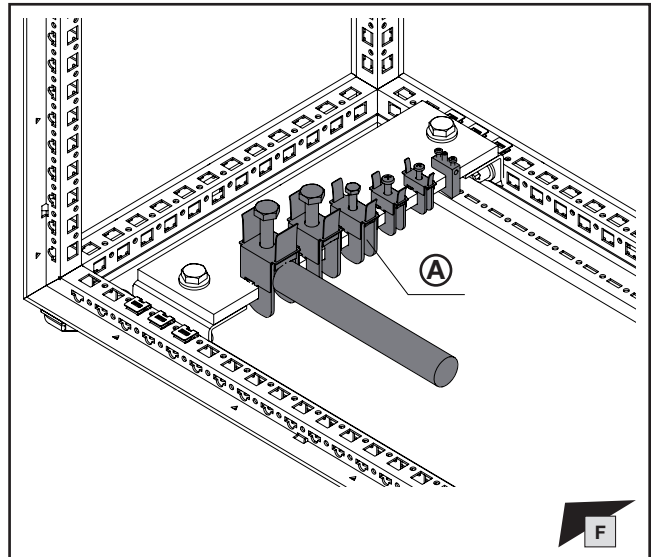
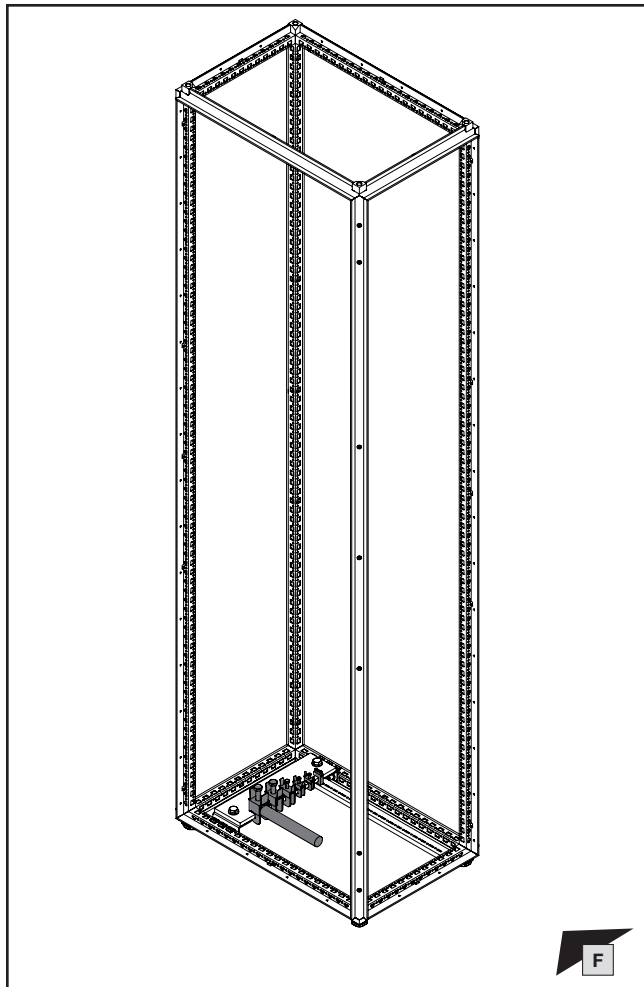


7. Montage Anschlusstechnik

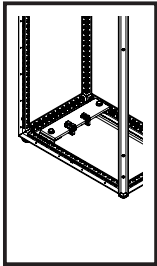
7. Installing the connection system

7. Montage des raccordements

- 7.16 1 Sammelschiene PE/PEN bis 1x80 mm – Leiteranschlussklemmen für 5 und 10 mm Schienenstärke
- 7.16 1 PE/PEN busbar up to 1x80 mm – Conductor connection clamps for 5 and 10 mm bar width
- 7.16 1 jeu de barres Terre/Terre-Neutre de dimensions jusqu'à 1x80 mm – bornes pour raccordement de câbles pour largeur de barre de 5 et 10 mm



Schienenstärke Bar thickness Épaisseur des barres mm	Rundleiter Round conductor Câble cylindrique mm ²	Klemmraum Clamping area Plage de serrage B x H mm	Ⓑ _A M _A Nm	Breite Width Largeur B mm	Höhe Height Hauteur H mm		Ⓐ Best.-Nr. Model No. Référence
					min.	max.	
5	1 – 4	–	2	11,0	17	23	3450.500
5	2,5 – 16	8x8	3	14,0	22	29	3451.500
5	16 – 50	10,5x11	8	18,5	26	39	3452.500
5	35 – 70	16,5x15	12	24,5	39	57	3453.500
5	70 – 185	22,5x20	15	30,5	44	66	3454.500
10	1 – 4	–	2	11,0	17	23	3455.500
10	2,5 – 16	8x8	3	14,0	22	29	3456.500
10	16 – 50	10,5x11	8	18,5	26	39	3457.500
10	35 – 70	16,5x15	12	24,5	39	57	3458.500
10	70 – 185	22,5x20	15	30,5	44	66	3459.500
3 – 5	1 – 4	–	2	8,0	–	–	3550.000
6 – 10	1 – 4	–	2	8,0	–	–	3555.000



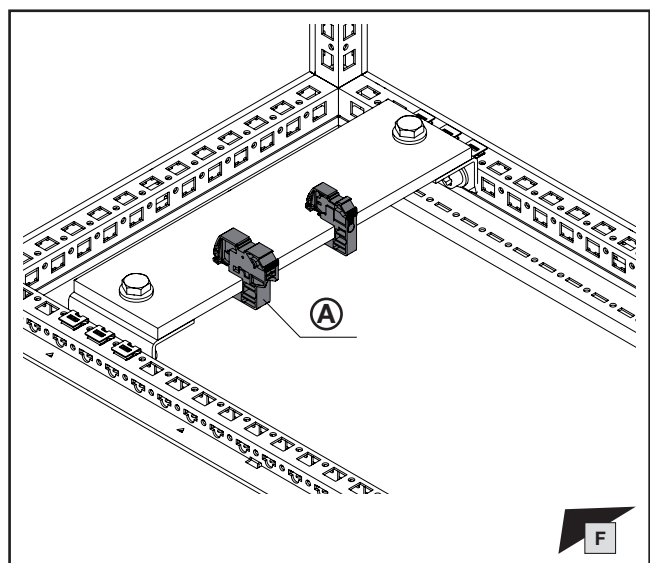
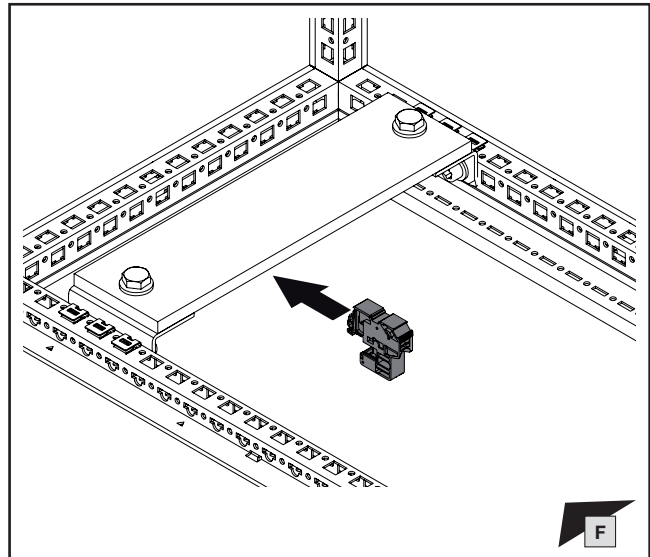
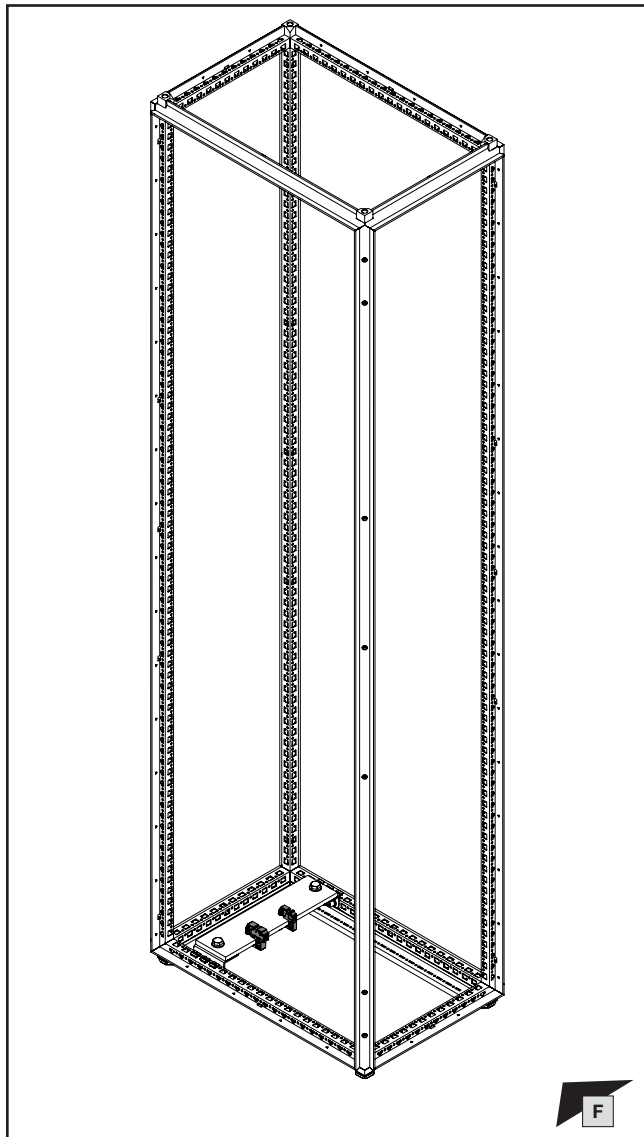
7. Montage Anschlusstechnik

7. Installing the connection system

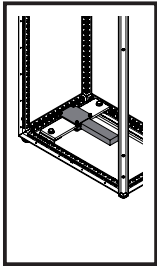
7. Montage des raccordements



- 7.17 1 Sammelschiene PE/PEN bis 1x80 mm – Push-In für 5 und 10 mm Schienenstärke
 7.17 1 PE/PEN busbar up to 1x80 mm – Push-in for 5 and 10 mm bar thickness
 7.17 1 jeu de barres Terre/Terre-Neutre de dimensions jusqu'à 1x80 mm – Push-in pour épaisseur de barre de 5 et 10 mm



Schienenstärke Bar thickness Épaisseur des barres mm	Rundleiter eindräftig Round conductor, single-wire Câble cylindrique unifilaire mm ²	Rundleiter mehr- dräftig Round conductor, multi-wire Câble cylindrique multifilaire mm ²	Rundleiter feindräftig, ohne Aderendhülse Round conductor, fine wire, without wire end ferrule Câble cylindrique à fils de faible diamètre, sans embout mm ²	Rundleiter feindräftig, mit Aderendhülse Round conductor, fine wire, with wire end ferrule Câble cylindrique à fils de faible diamètre, avec embout mm ²	A Best.-Nr. Model No. Référence
5	0,5 – 6	0,5 – 4	0,5 – 4	0,5 – 4	3450.505
5	1,5 – 16	1,5 – 16	1,5 – 16	1,5 – 16	3451.505
10	0,5 – 6	0,5 – 4	0,5 – 4	0,5 – 4	3455.505
10	1,5 – 16	1,5 – 16	1,5 – 16	1,5 – 16	3456.505



SW10

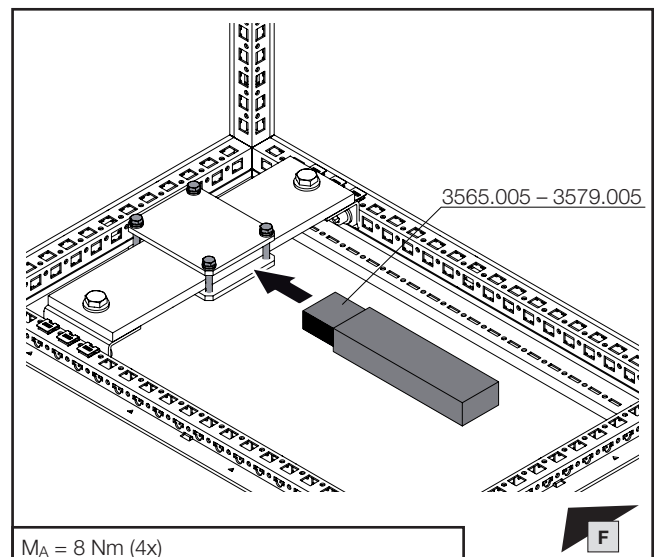
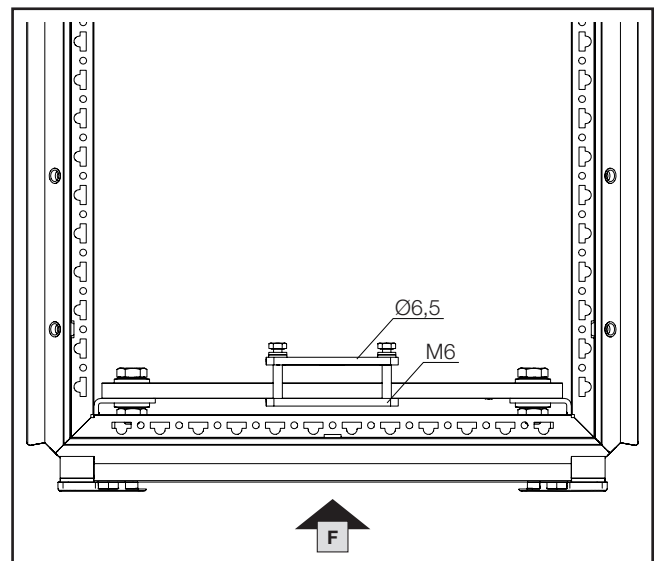
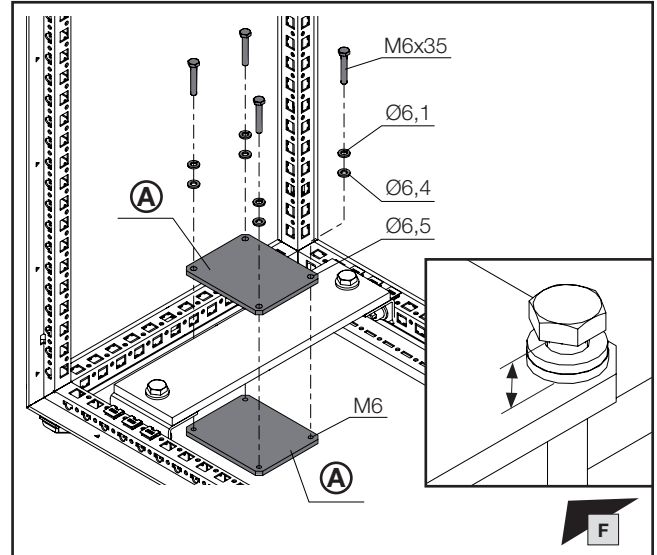
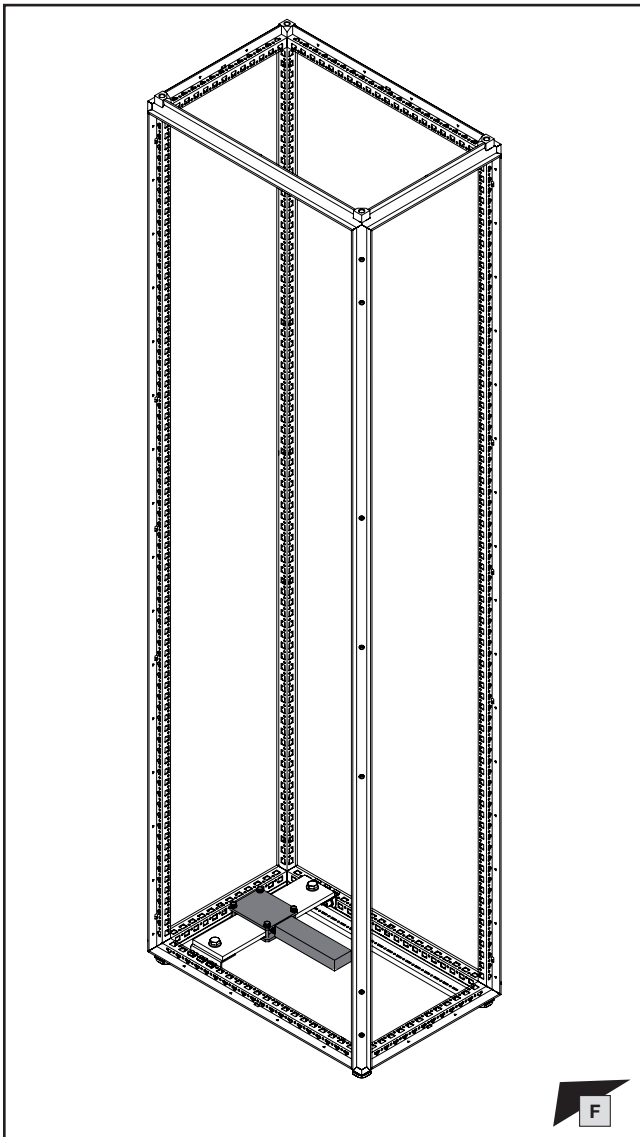


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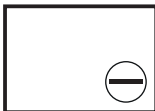
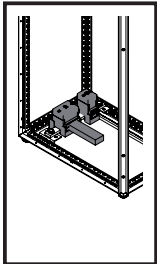
7. Montage Anschlusstechnik 7. Installing the connection system 7. Montage des raccordements



- 7.18 1 Sammelschiene PE/PEN bis 1x80 mm – Plattenklemmen für 5 und 10 mm Schienenstärke
7.18 1 PE/PEN busbar up to 1x80 mm – Plate clamps for 5 and 10 mm bar thickness
7.18 1 jeu de barres Terre/Terre-Neutre de dimensions jusqu'à 1x80 mm – brides de raccordement pour épaisseur de barre de 5 et 10 mm



Sammelschiene Busbar Jeu de barres mm	Klemmraum Flachkupferschiene Clamping area, flat copper bar Espace de serrage pour barre de cuivre plate mm ²	A Best.-Nr. Model No. Référence
30x5 – 30x10	34x10	3554.000
40x10	34x10	3559.000
50x10	34x10	3560.000
50x10	54x10	3562.000
80x10	65x10	3460.500



7. Montage Anschlusstechnik

7. Installing the connection system

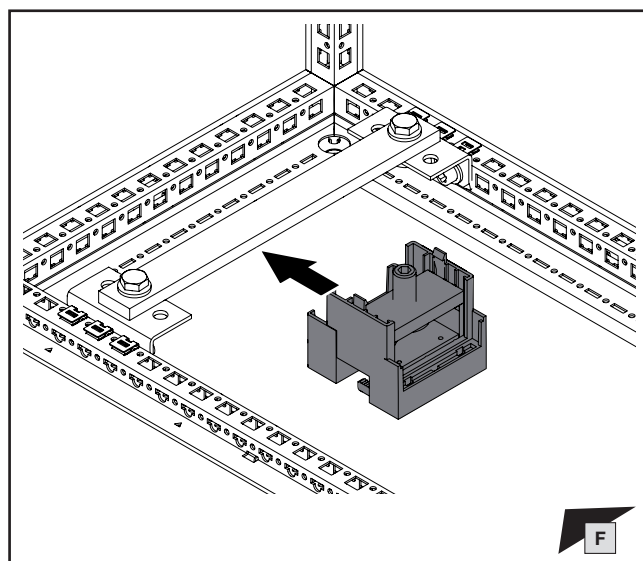
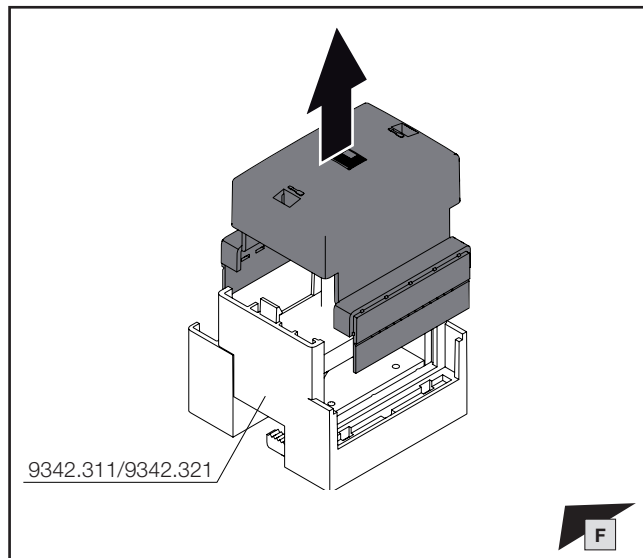
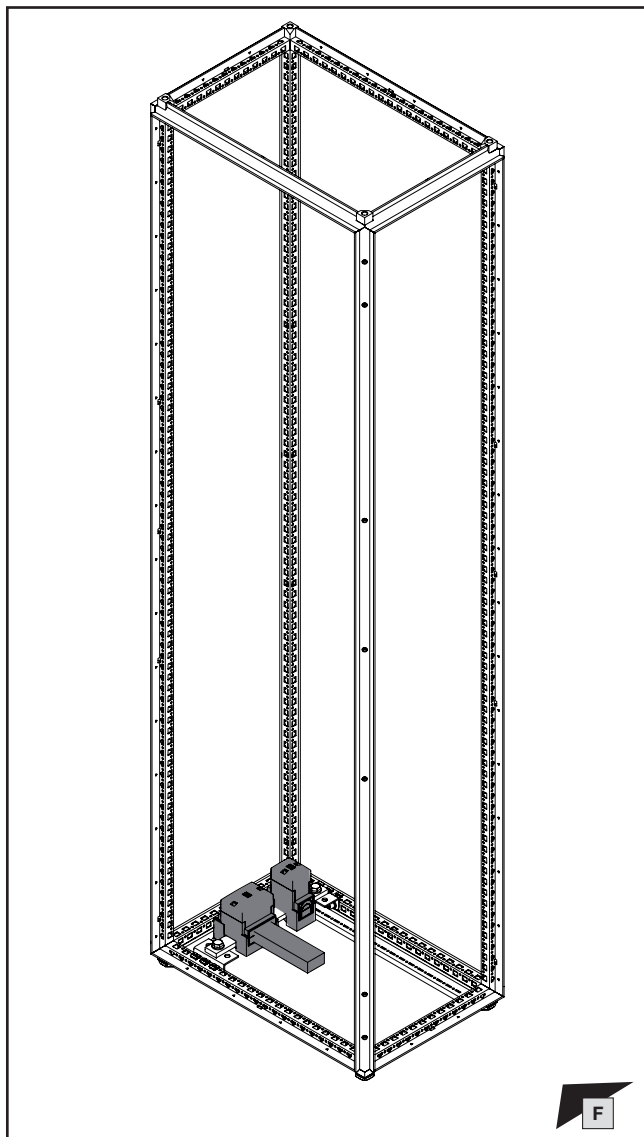
7. Montage des raccordements



7.19 1 Sammelschiene PE/PEN für 30x5 mm und 30x10 mm – Anschlussblock

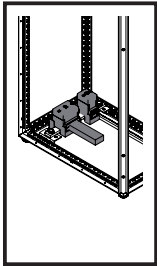
7.19 1 PE/PEN busbar for 30x5 mm and 30x10 mm – Connection block

7.19 1 jeu de barres Terre/Terre-Neutre de dimensions 30x5 mm et 30x10 mm – bloc de raccordement



SV Anschlussblock
SV connection block
Bloc de raccordement SV

DE/EN/FR



IS8



DE EN FR

7. Montage Anschlusstechnik

7. Installing the connection system

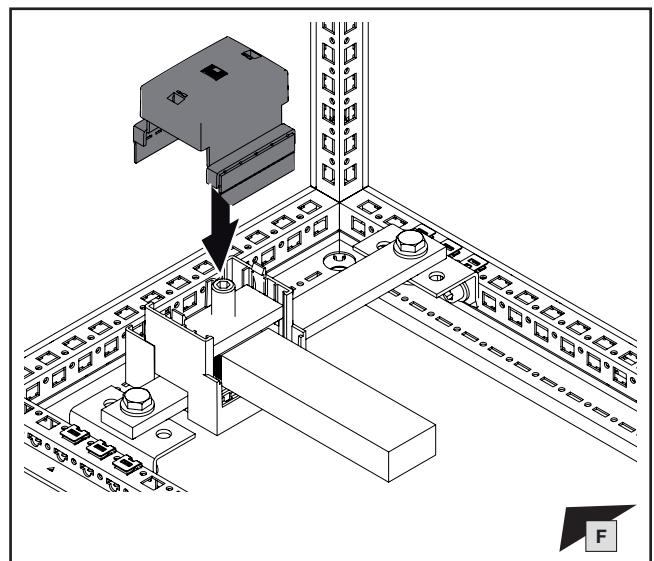
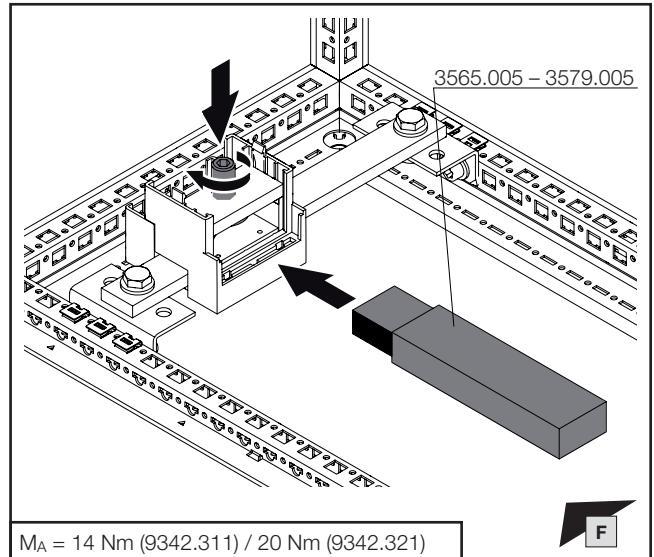
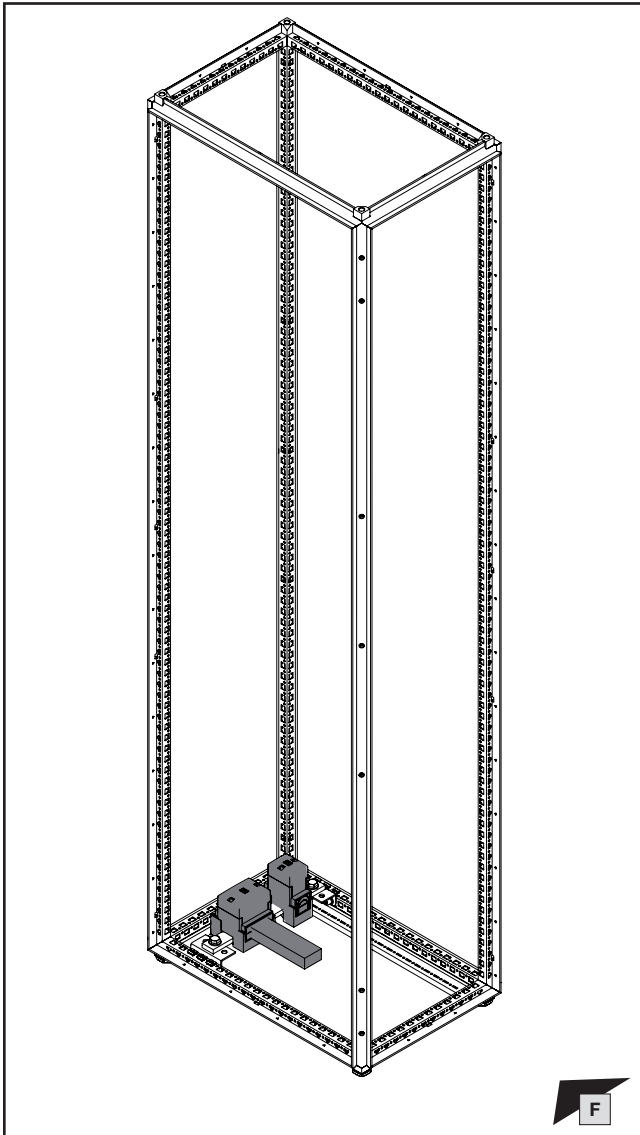
7. Montage des raccordements

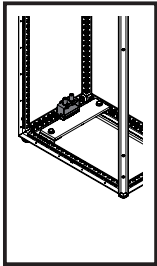


7.19 1 Sammelschiene PE/PEN für 30x5 mm und 30x10 mm – Anschlussblock

7.19 1 PE/PEN busbar for 30x5 mm and 30x10 mm – Connection block

7.19 1 jeu de barres Terre/Terre-Neutre de dimensions 30x5 mm et 30x10 mm – bloc de raccordement

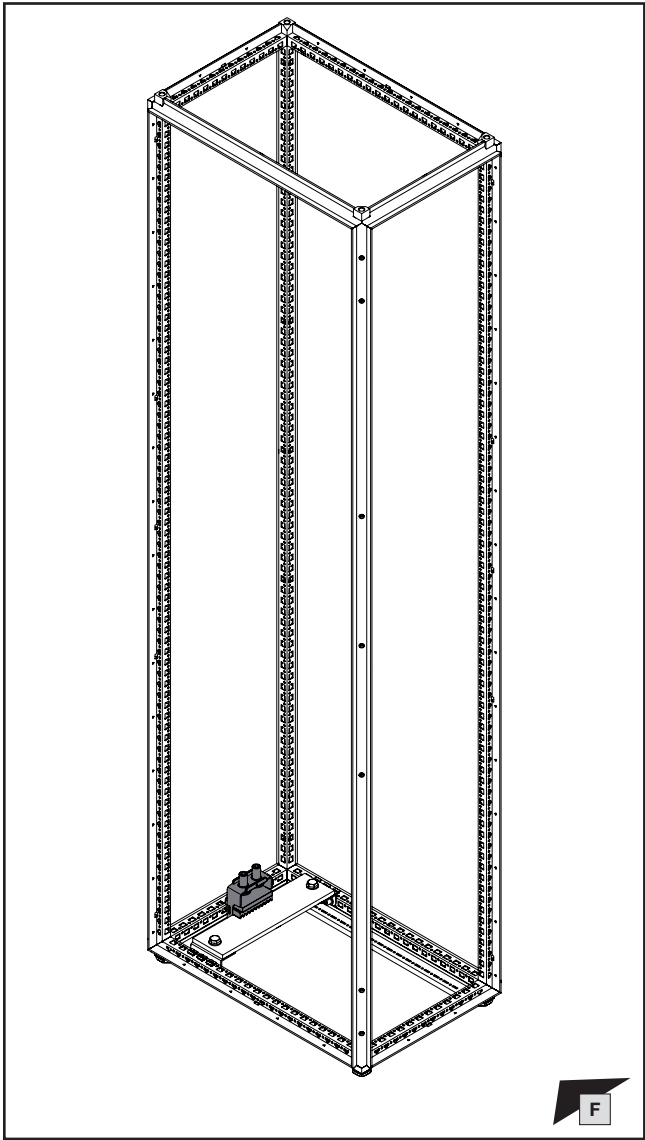




7. Montage Anschlusstechnik 7. Installing the connection system 7. Montage des raccordements

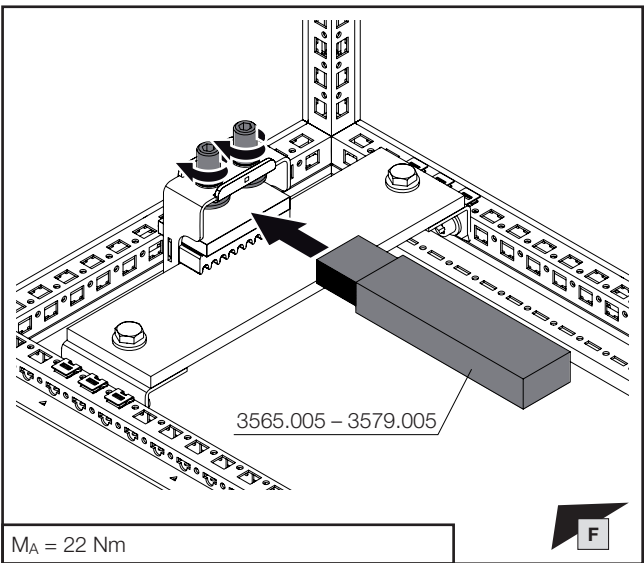
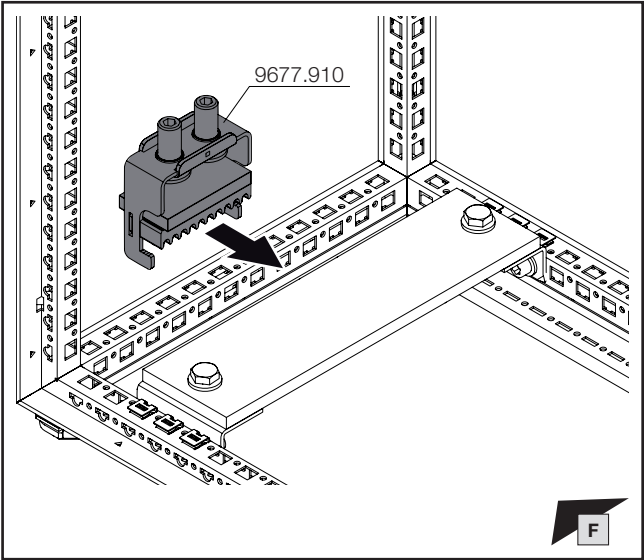


- 7.20 1 Sammelschiene PE/PEN bis 1x80 mm – Anschlussblock 1000 – 1600 A
- 7.20 1 PE/PEN busbar up to 1x80 mm – Connection block 1000 – 1600 A
- 7.20 1 jeu de barres Terre/Terre-Neutre de dimensions jusqu'à 1x80 mm – bloc de raccordement 1000 – 1600 A



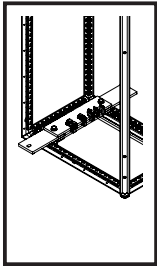
Anschlussblock
 Connection block
 Bloc de raccordement

DE/EN/FR



$M_A = 22 \text{ Nm}$

Alternativen Alternatives Alternatives	Ⓐ Best.-Nr. Model No. Référence
	9677.910
	9677.920
	9677.915



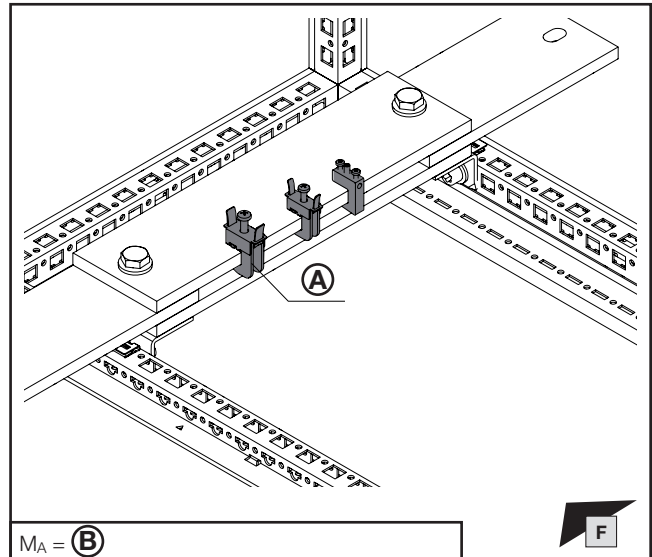
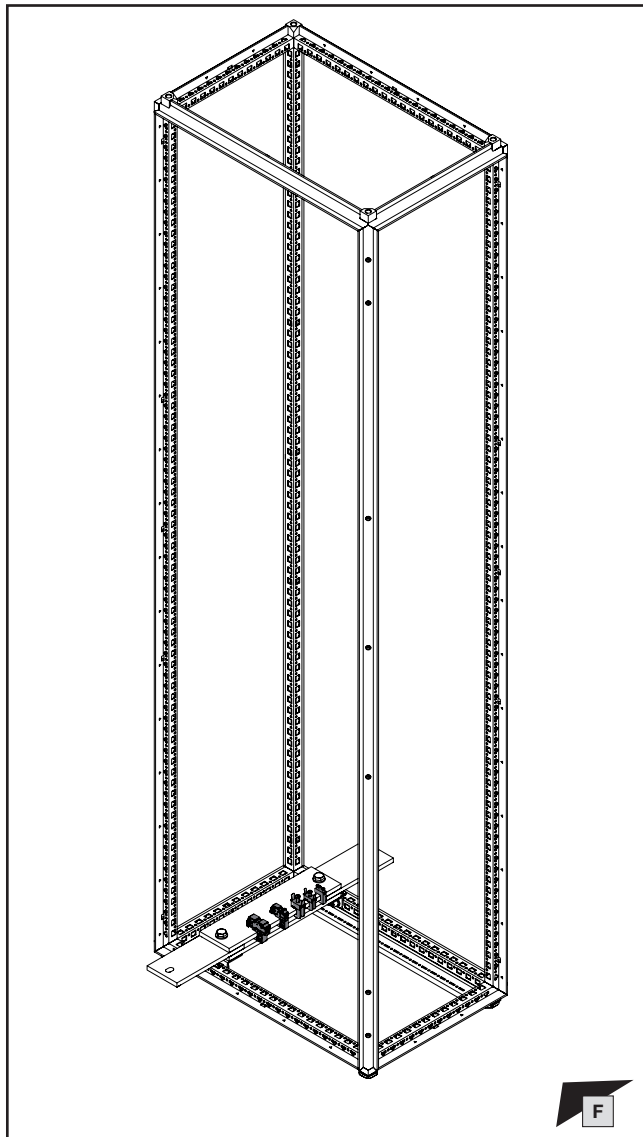
7. Montage Anschlusstechnik

7. Installing the connection system

7. Montage des raccordements



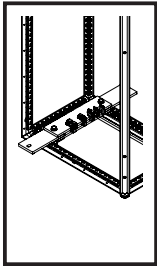
- 7.21 2 Sammelschienen PE/PEN bis 1x80 mm – Leiteranschlussklemmen
 7.21 2 PE/PEN busbars up to 1x80 mm – Conductor connection clamps
 7.21 2 jeux de barres Terre/Terre-Neutre de dimensions jusqu'à 1x80 mm – bornes pour raccordement de câbles



Hinweis / Note / Remarque **(A)**

Montage Leiteranschlussklemmen: siehe Kapitel 7.16
 Installing the conductor connection clamps: see chapter 7.16
 Montage des bornes pour raccordement de câbles : voir chapitre 7.16

Schienenstärke Bar thickness Épaisseur des barres mm	Rundleiter Round conductor Câble cylindrique mm ²	Klemmraum Clamping area Plage de serrage B x H mm	(B) M _A Nm	Breite Width Largeur B mm	Höhe Height Hauteur H mm		(A) Best.-Nr. Model No. Référence
					min.	max.	
5	1 – 4	–	2	11,0	17	23	3450.500
5	2,5 – 16	8x8	3	14,0	22	29	3451.500
10	1 – 4	–	2	11,0	17	23	3455.500
10	2,5 – 16	8x8	3	14,0	22	29	3456.500
3 – 5	1 – 4	–	2	8,0	–	–	3550.000
6 – 10	1 – 4	–	2	8,0	–	–	3555.000



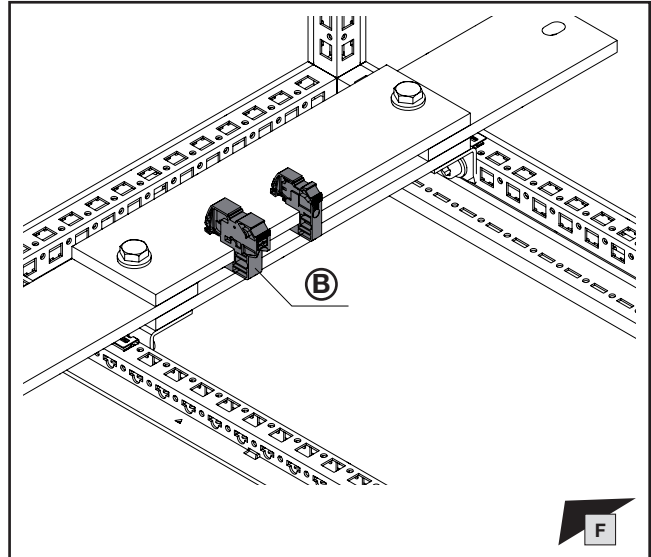
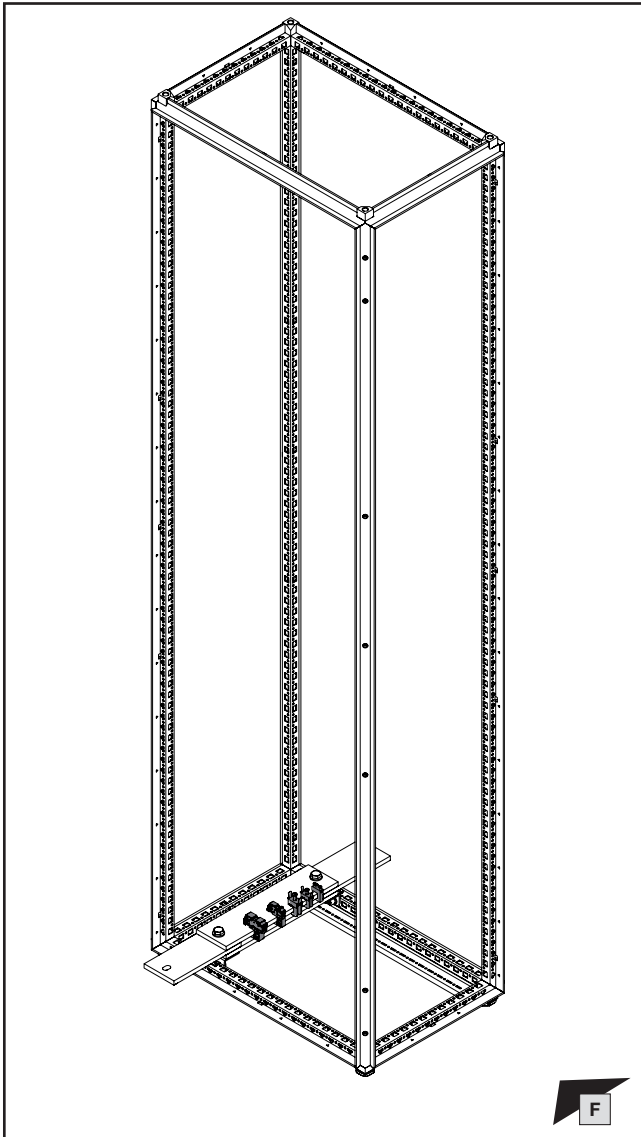
7. Montage Anschlusstechnik

7. Installing the connection system

7. Montage des raccordements



- 7.22 2 Sammelschienen PE/PEN bis 1x80 mm – Leiteranschlussklemmen Push-In
- 7.22 2 PE/PEN busbars up to 1x80 mm – Conductor connection clamps, push-in
- 7.22 2 jeux de barres Terre/Terre-Neutre de dimensions jusqu'à 1x80 mm – bloc de raccordement Push-in



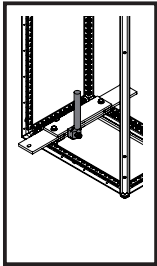
Hinweis / Note / Remarque **(B)**

Montage Leiteranschlussklemmen Push-In: siehe Kapitel 7.17

Installing the conductor connection clamps, push-in: see chapter 7.17

Montage des bornes pour raccordement de câbles Push-in : voir chapitre 7.17

Schienenstärke Bar thickness Épaisseur des barres mm	Rundleiter eindräftig Round conductor, single-wire Câble cylindrique unifilaire mm ²	Rundleiter mehr- dräftig Round conductor, multi-wire Câble cylindrique multifilaire mm ²	Rundleiter feindräftig, ohne Aderendhülse Round conductor, fine wire, without wire end ferrule Câble cylindrique à fils de faible diamètre, sans embout mm ²	Rundleiter feindräftig, mit Aderendhülse Round conductor, fine wire, with wire end ferrule Câble cylindrique à fils de faible diamètre, avec embout mm ²	(A) Best.-Nr. Model No. Référence
5	0,5 – 6	0,5 – 4	0,5 – 4	0,5 – 4	3450.505
5	1,5 – 16	1,5 – 16	1,5 – 16	1,5 – 16	3451.505
10	0,5 – 6	0,5 – 4	0,5 – 4	0,5 – 4	3455.505
10	1,5 – 16	1,5 – 16	1,5 – 16	1,5 – 16	3456.505



SW16/
SW17

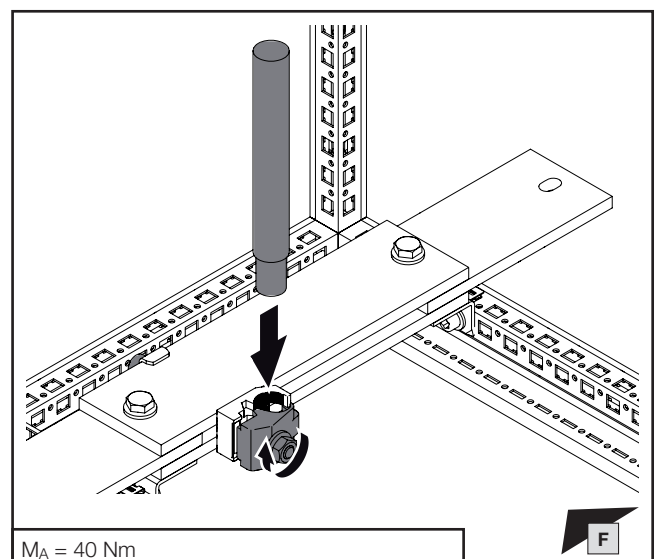
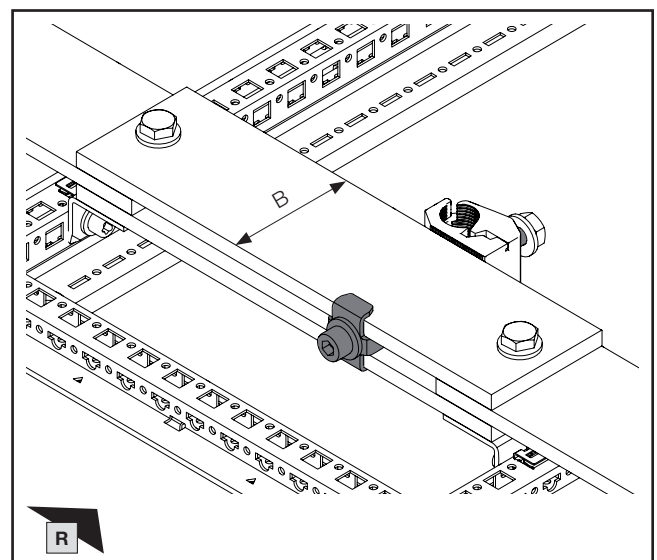
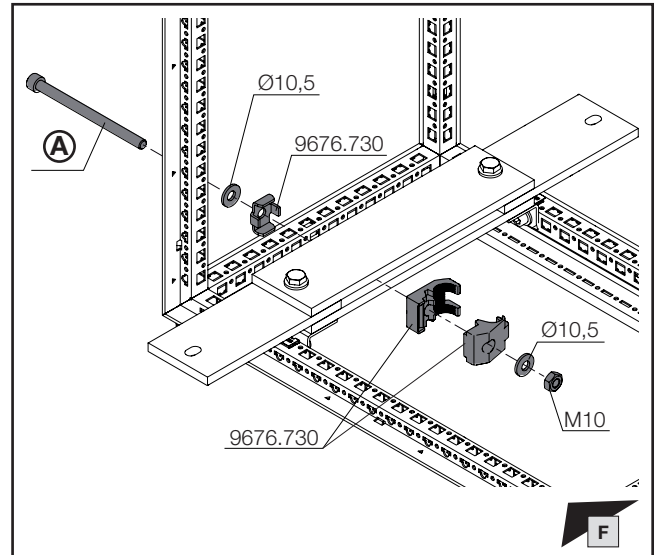
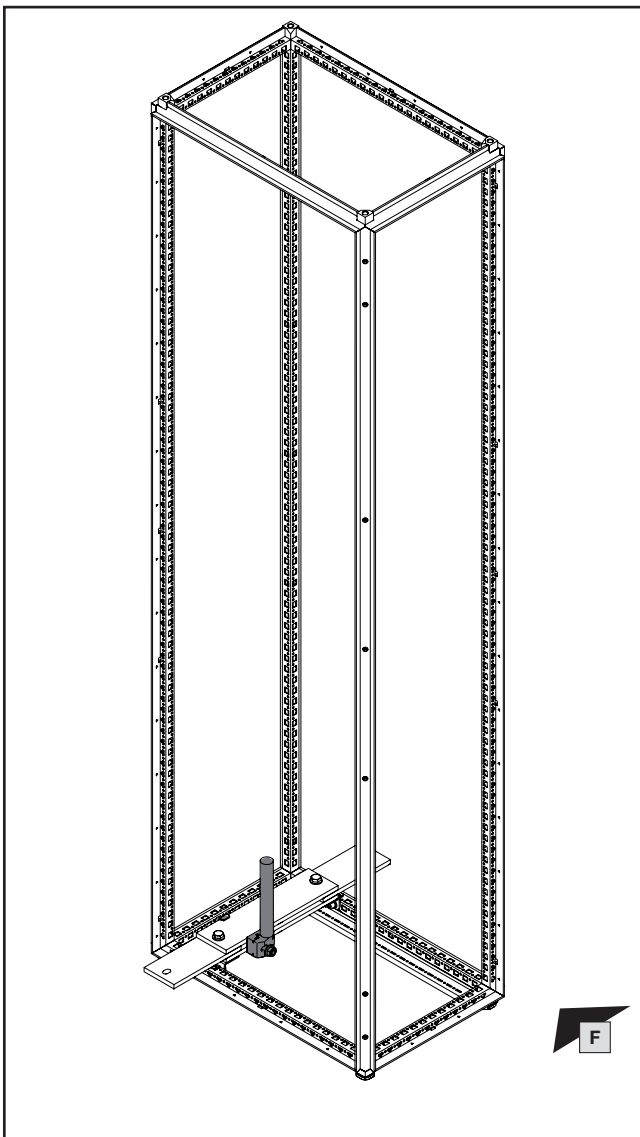
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DE EN FR

7. Montage Anschlusstechnik 7. Installing the connection system 7. Montage des raccordements

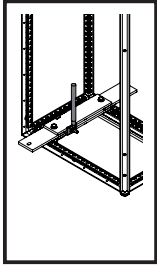


- 7.23 2 Sammelschienen PE/PEN bis 1x80 mm – Direktanschlussklemme für 10 mm Schienenbreite
7.23 2 PE/PEN busbars up to 1x80 mm – Direct connection terminals for 10 mm bar width
7.23 2 jeux de barres Terre/Neutre de dimensions jusqu'à 1x80 mm – borne de raccordement direct pour largeur de barre de 10 mm



Ausführung Version Modèle	B mm	^(A) Best.-Nr. Model No. Référence
M10x90	30	9676.809
M10x100	40	9676.810
M10x140	80	9676.814

M_A = 40 Nm



SW16/
SW17

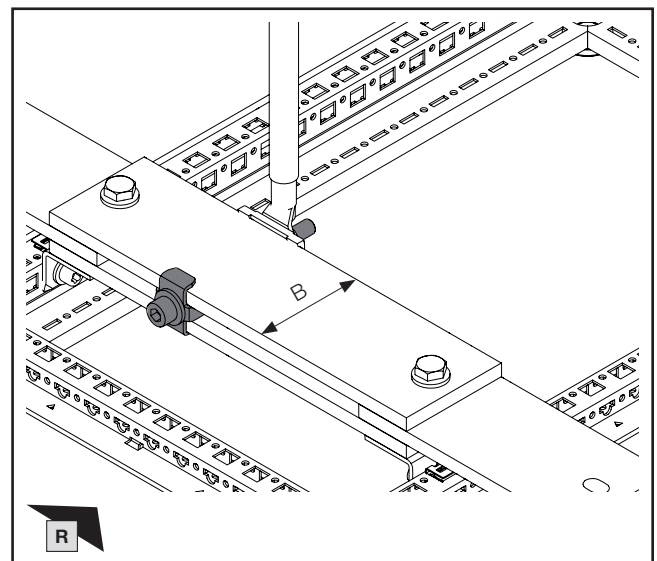
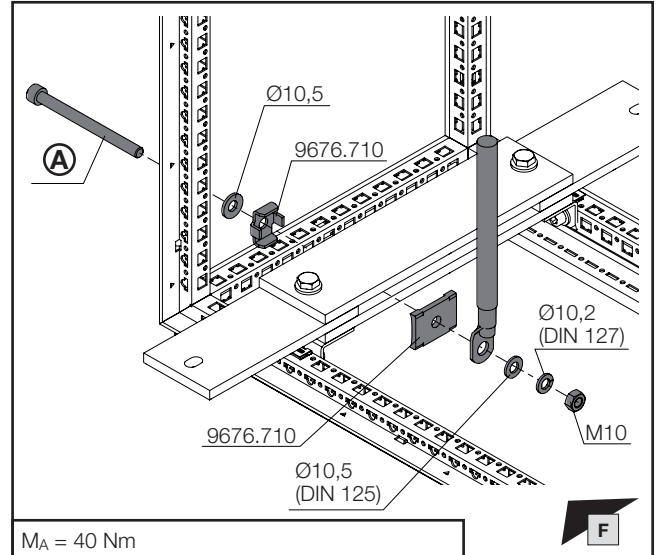
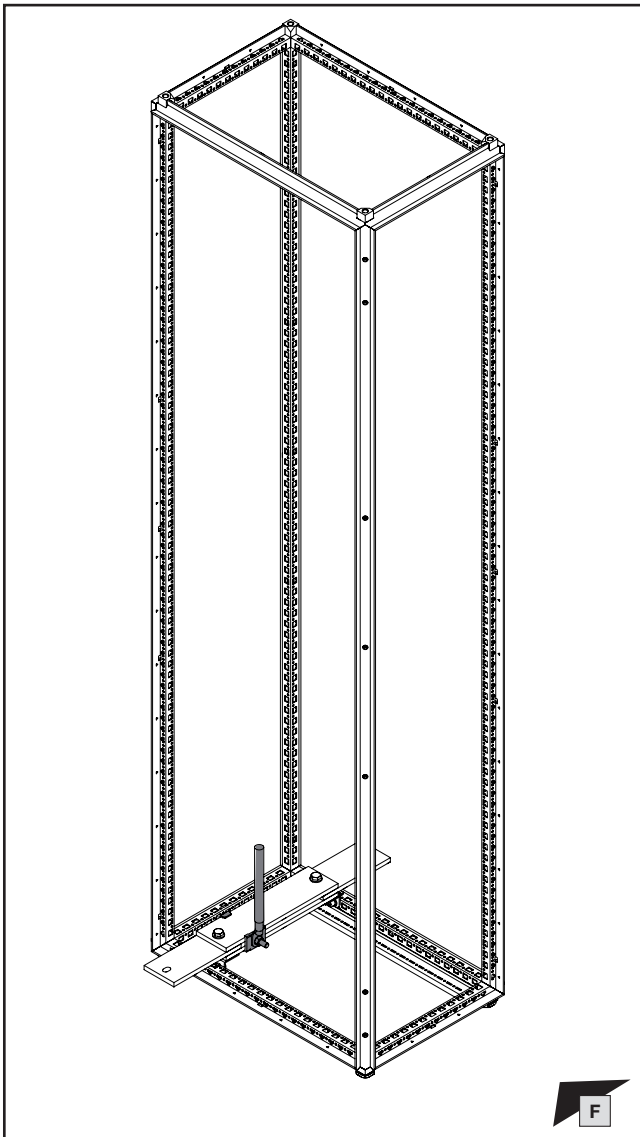
IS8

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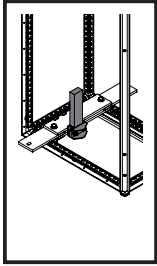
7. Montage Anschlusstechnik 7. Installing the connection system 7. Montage des raccordements



- 7.24 2 Sammelschienen PE/PEN bis 1x80 mm – Anschlussplatten (Bolzen M10) für 10 mm Schienenbreite
7.24 2 PE/PEN busbars up to 1x80 mm – Connection plates (M10 bolts) for 10 mm bar width
7.24 2 jeux de barres Terre/Neutre de dimensions jusqu'à 1x80 mm – plaques de raccordement (boulon M10) pour largeur de barre de 10 mm



Ausführung Version Modèle	B mm	[Ⓐ] Best.-Nr. Model No. Référence
M10x70	30	9676.807
M10x80	40	9676.808
M10x120	80	9676.812



SW16/
SW17

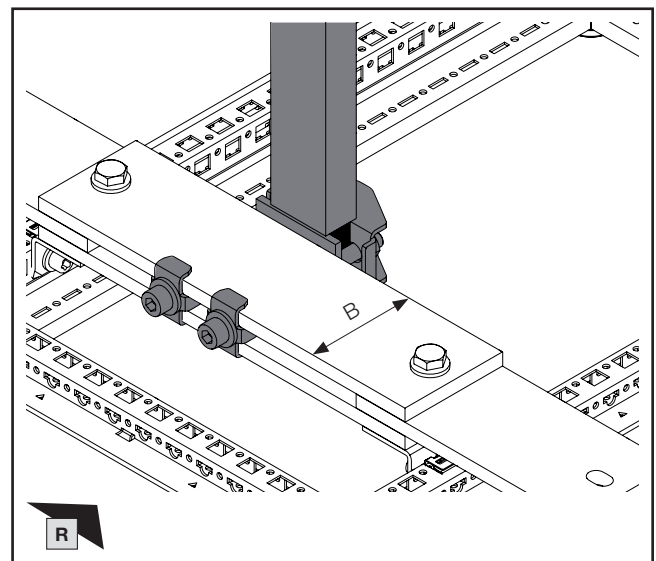
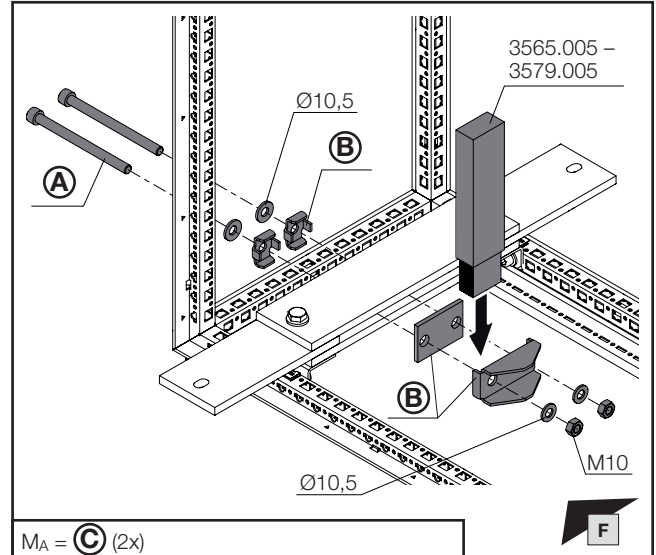
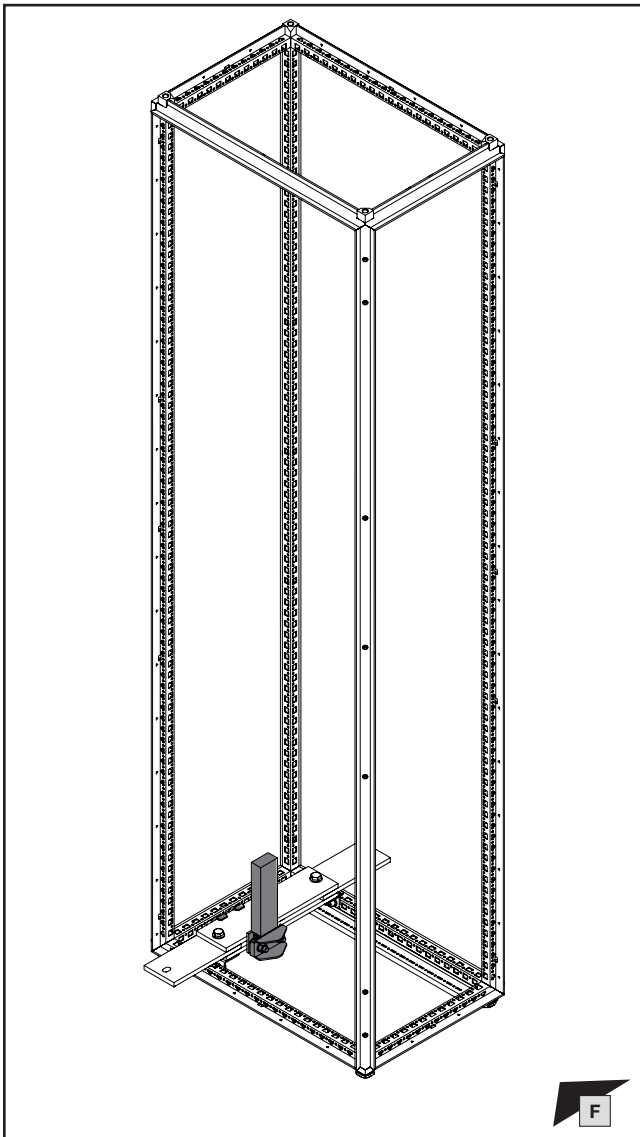
IS8

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7. Montage Anschlusstechnik 7. Installing the connection system 7. Montage des raccords

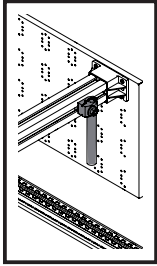


- 7.25 2 Sammelschienen PE/PEN bis 1x80 mm – Anschlussplatten zum Anschluss von lamellierten Flachkupferschienen für 10 mm Schienenbreite
- 7.25 2 PE/PEN busbars up to 1x80 mm – Connection plates for connecting laminated flat copper bars with 10 mm bar width
- 7.25 2 jeux de barres Terre/ Terre-Neutre de dimensions jusqu'à 1x80 mm – plaques de raccordement pour raccorder les barres de cuivre plates lamellées de largeur 10 mm



Ausführung Version Modèle	B mm	A Best.-Nr. Model No. Référence
M10x80	30	9676.808
M10x90	40	9676.809
M10x130	80	9676.813

C M _A Nm	B Best.-Nr. Model No. Référence
20	9676.747
25	9676.748
30	9676.749



SW18/
SW19

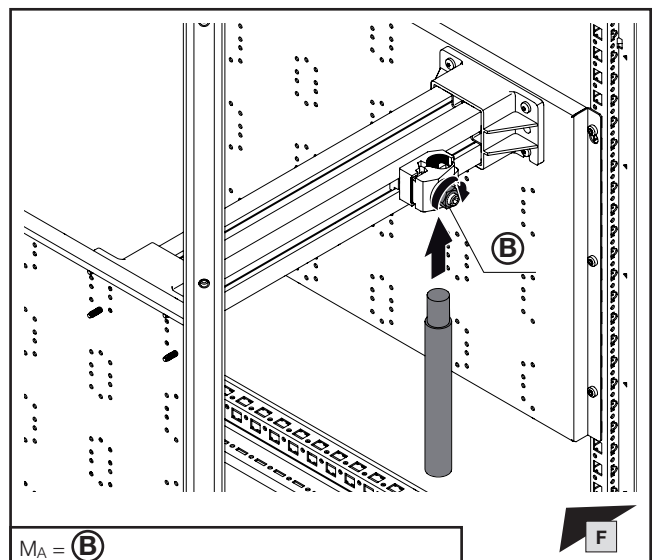
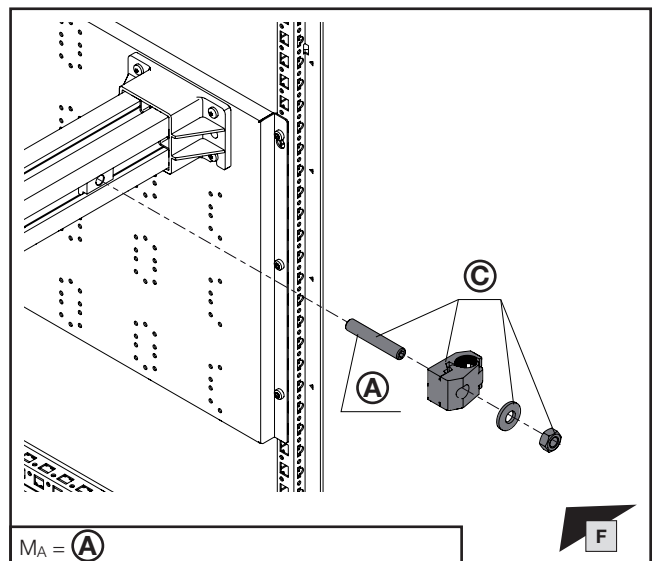
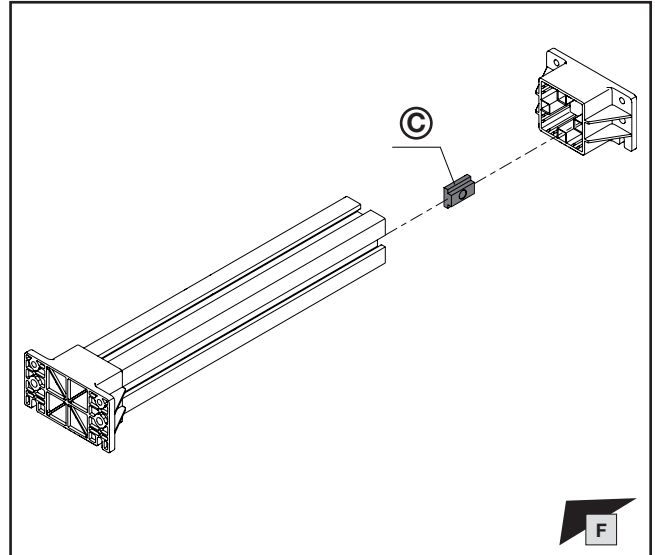
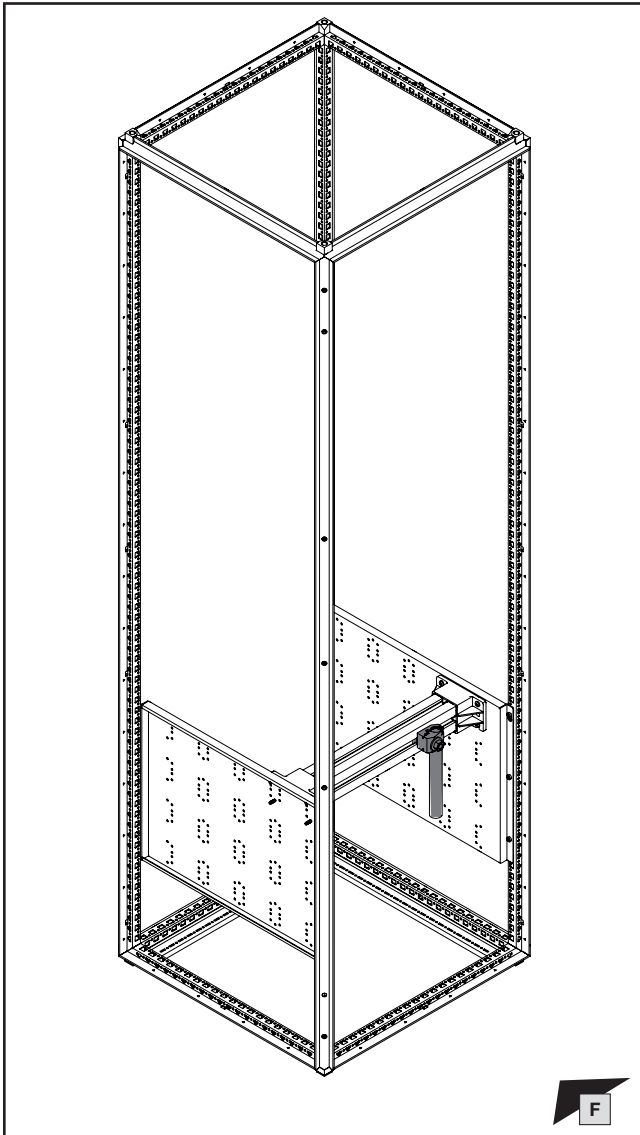
IS5/
IS6

DE EN FR

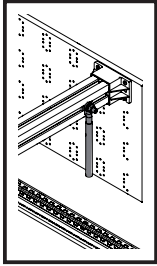
7. Montage Anschlusstechnik 7. Installing the connection system 7. Montage des raccordements



- 7.26 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Direktanschlussklemmen
7.26 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Direct connection terminals
7.26 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – bornes de raccordement direct



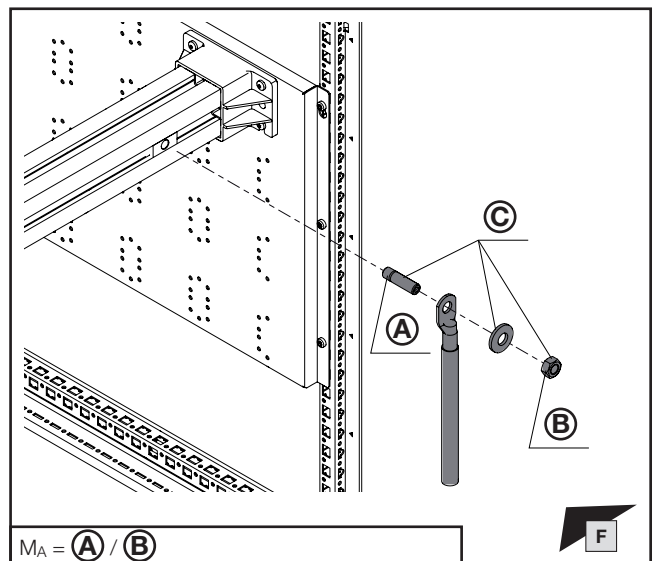
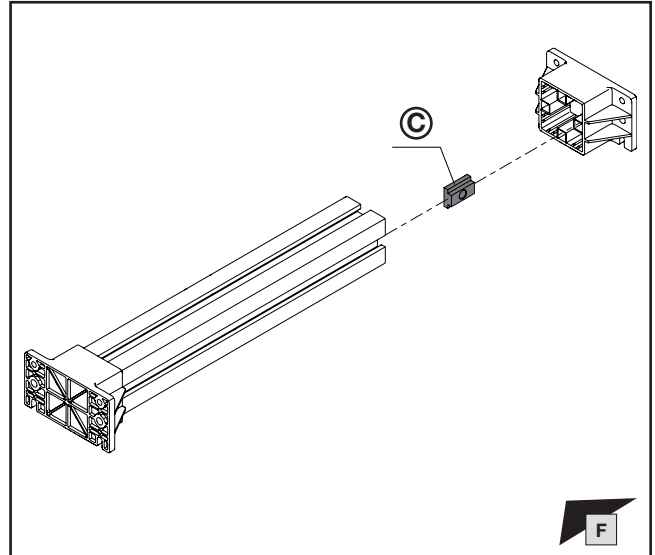
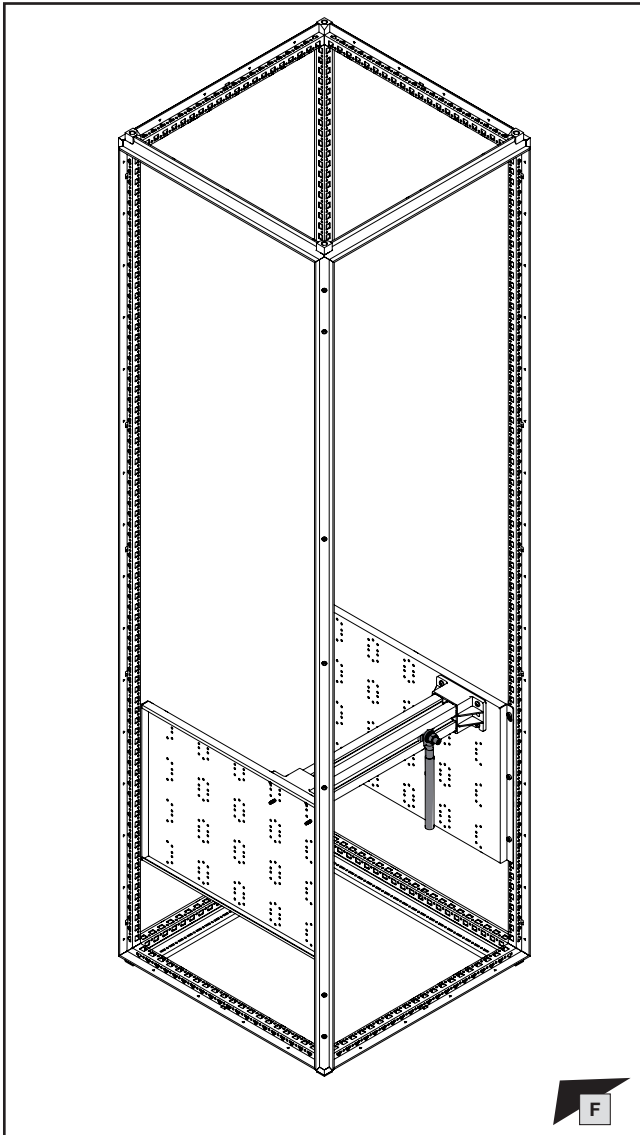
(A) MA Nm	(B) MA Nm	(C) Best.-Nr. Model No. Référence	
		Maxi-PLS 45 S Maxi-PLS 45	Maxi-PLS 60
10	40	9640.325	9650.325



7. Montage Anschlusstechnik 7. Installing the connection system 7. Montage des raccordements

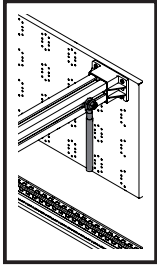


- 7.27 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Anschlussbolzen M12 und M16
7.27 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Connection bolts M12 and M16
7.27 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – boulons de raccordement M12 et M16



$$M_A = \frac{A}{B}$$

Gewinde Thread Filetage	A M _A Nm	B M _A Nm	C Best.-Nr. Model No. Référence	
			Maxi-PLS 45 S Maxi-PLS 45	Maxi-PLS 60
M12x30	10	40	9640.370	–
M16x30	10	40	9640.380	–
M12x32	10	40	–	9650.370
M16x32	10	40	–	9650.380



SW13



SW16/
SW17



SW18/
SW19



IS4, IS5,
IS6



DE

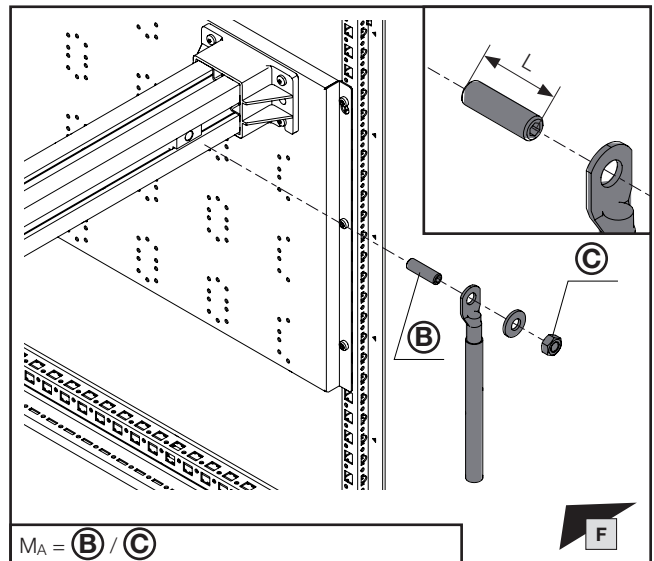
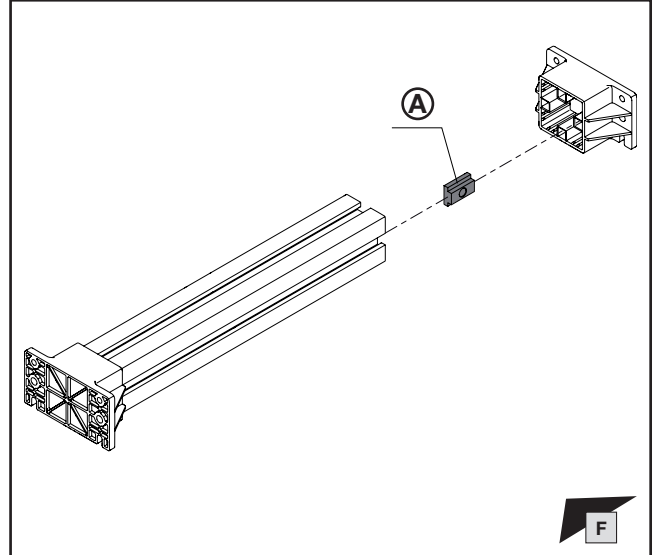
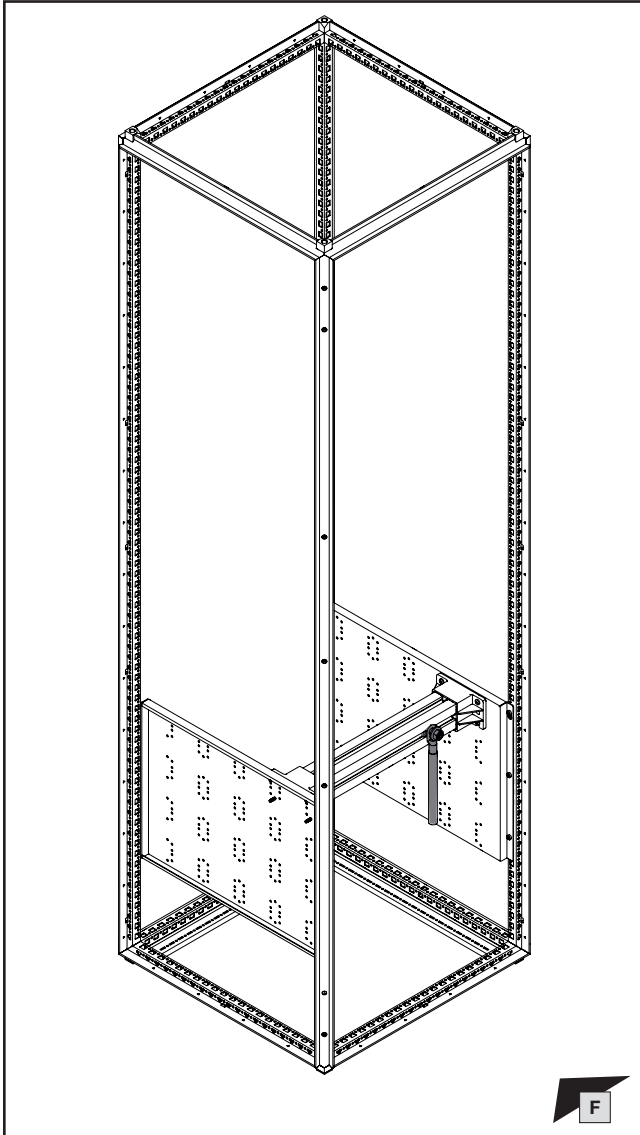
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7. Montage Anschlusstechnik 7. Installing the connection system 7. Montage des raccordements

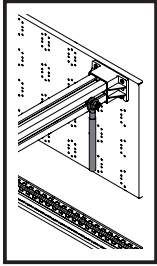


- 7.28 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Nutensteine mit Gewindebolzen M8 / M10 / M12
7.28 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Sliding blocks with threaded bolts M8 / M10 / M12
7.28 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – coulisseaux avec boulons filetés M8 / M10 / M12



Maxi-PLS 45 S/Maxi-PLS 45					
	L mm	(B) M _A Nm	(C) M _A Nm	(A) Best.-Nr. Model No. Référence	(B) Best.-Nr. Model No. Référence
M8	35	5	15	9640.970	9640.940
M10	35	10	40	9640.980	9676.971
M10	45	10	40	9640.980	9676.972
M10	55	10	40	9640.980	9676.973
M10	70	10	40	9640.980	9676.976
M10	80	10	40	9640.980	9676.977

Maxi-PLS 60					
	L mm	(B) M _A Nm	(C) M _A Nm	(A) Best.-Nr. Model No. Référence	(B) Best.-Nr. Model No. Référence
M10	35	10	40	9650.980	9676.971
M10	45	10	40	9650.980	9676.972
M10	55	10	40	9650.980	9676.973
M10	70	10	40	9650.980	9676.976
M10	80	10	40	9650.980	9676.977
M12	40	10	40	9650.990	9676.981
M12	50	10	40	9650.990	9676.982
M12	60	10	40	9650.990	9676.983
M12	70	10	40	9650.990	9676.986
M12	80	10	40	9650.990	9676.987



IS3



IS4



IS5



IS6

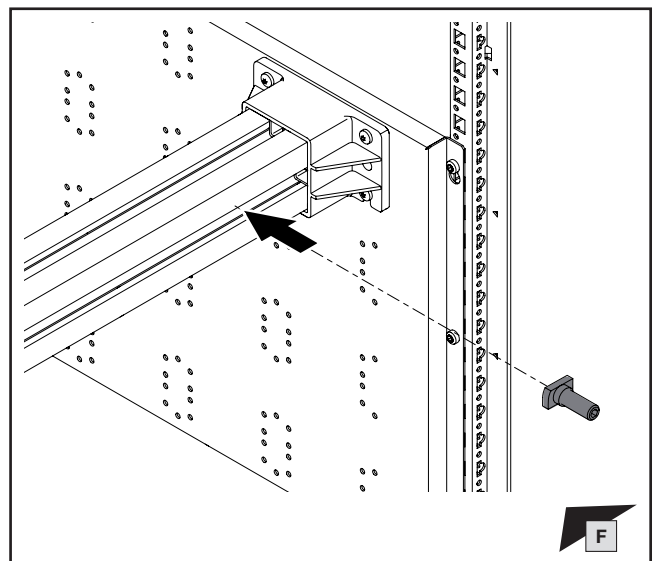
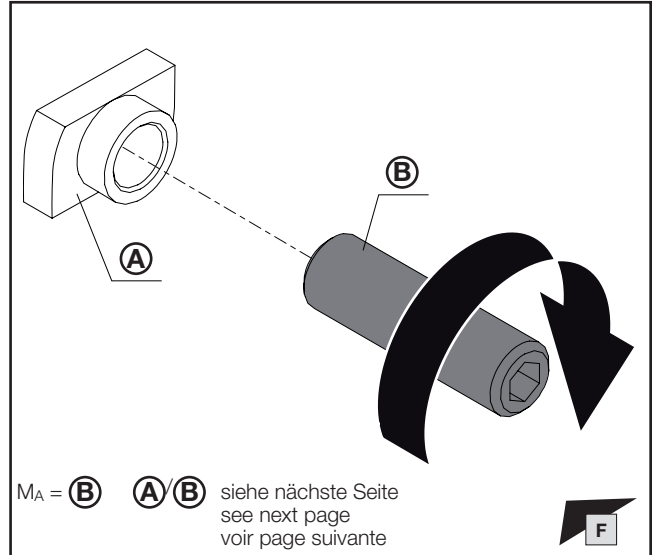
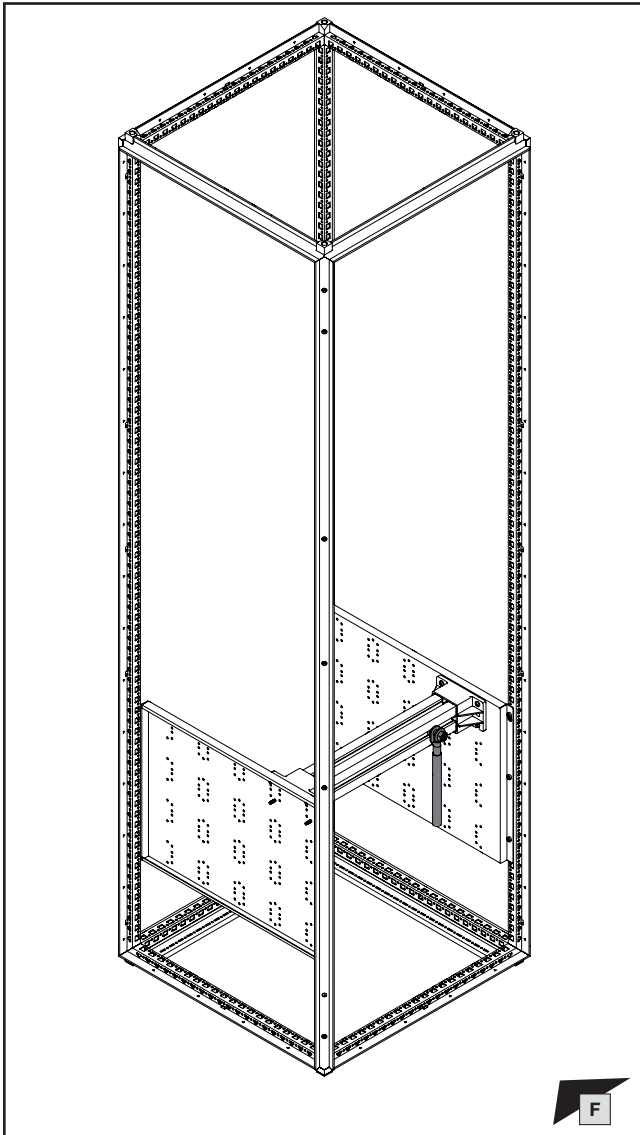


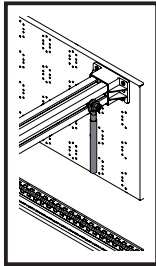
DE EN FR

7. Montage Anschlusstechnik 7. Installing the connection system 7. Montage des raccordements



- 7.29 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Gleitmutter mit Gewindebolzen M6 – M12
7.29 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Sliding nuts with threaded bolts M6 – M12
7.29 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – écrous cou-lissants avec boulons filetés M6 – M12





SW10



SW13



SW16/
SW17



SW18/
SW19



DE

EN

FR

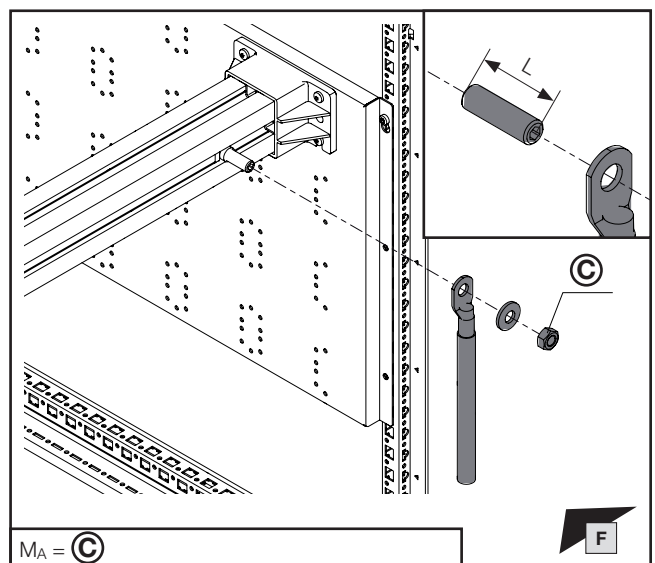
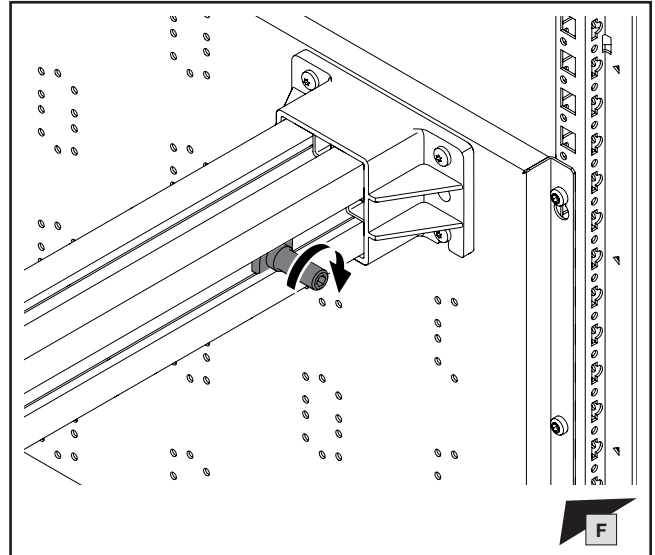
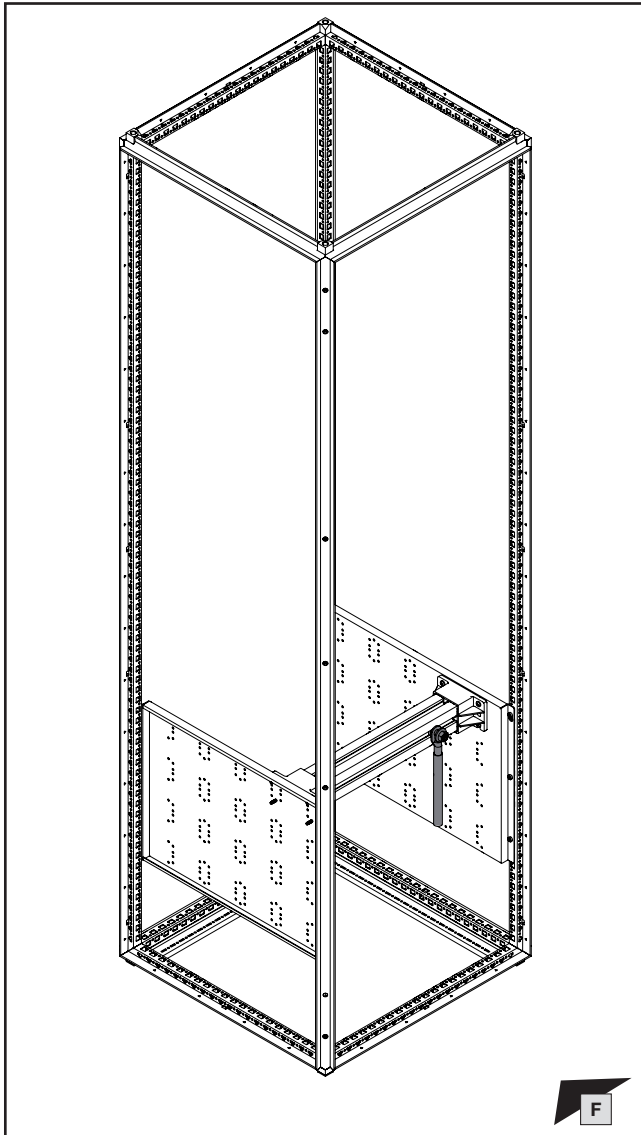
7. Montage Anschlusstechnik 7. Installing the connection system 7. Montage des raccordements



7.29 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Gleitmutter mit Gewindebolzen M6 – M12

7.29 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Sliding nuts with threaded bolts M6 – M12

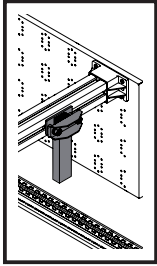
7.29 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – écrous cou-lissants avec boulons filetés M6 – M12



$M_A = \text{C}$

Maxi-PLS 45 S/Maxi-PLS 45					
	L mm	B $M_A \text{ Nm}$	C $M_A \text{ Nm}$	A Best.-Nr. Model No. Référence	B Best.-Nr. Model No. Référence
M6	35	5	5	9640.900	9640.930
M8	35	5	15	9640.910	9640.940
M10	35	10	40	9640.920	9676.971
M10	45	10	40	9640.920	9676.972
M10	55	10	40	9640.920	9676.973
M10	70	10	40	9640.920	9676.976
M10	80	10	40	9640.920	9676.977

Maxi-PLS 60					
	L mm	B $M_A \text{ Nm}$	C $M_A \text{ Nm}$	A Best.-Nr. Model No. Référence	B Best.-Nr. Model No. Référence
M6	35	5	5	9650.900	9640.930
M8	35	5	5	9650.905	9640.940
M10	35	10	40	9650.910	9676.971
M10	45	10	40	9650.910	9676.972
M10	55	10	40	9650.910	9676.973
M10	70	10	40	9650.910	9676.976
M10	80	10	40	9650.910	9676.977
M12	40	10	40	9650.920	9676.981
M12	50	10	40	9650.920	9676.982
M12	60	10	40	9650.920	9676.983
M12	70	10	40	9650.920	9676.986
M12	80	10	40	9650.920	9676.987



SW16/
SW17

SW18/
SW19

DE EN FR

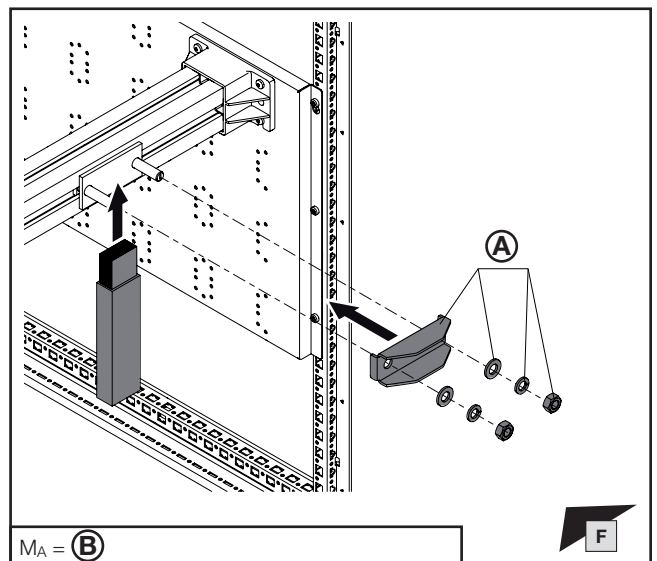
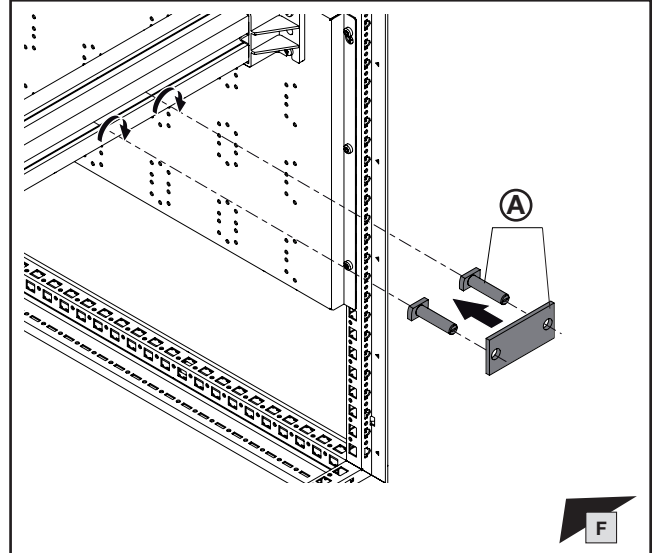
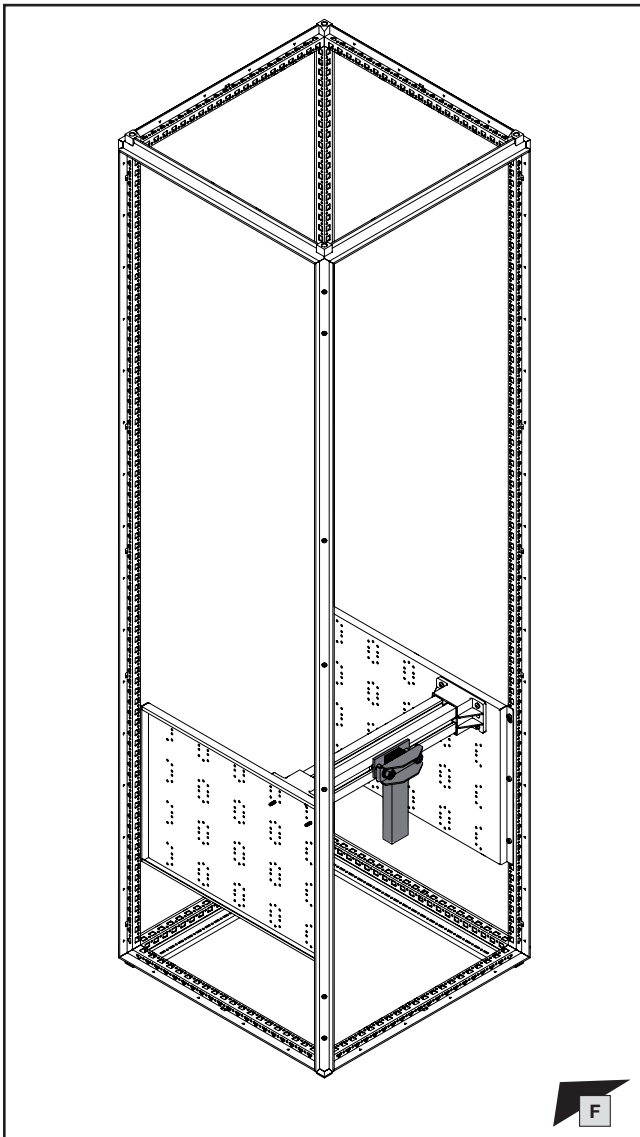
7. Montage Anschlusstechnik

7. Installing the connection system

7. Montage des raccordements

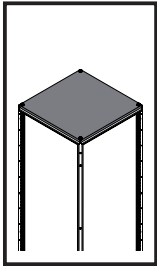


- 7.30 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Anschlussplatten zum Anschluss von lamellierten Flachkupferschienen
- 7.30 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – Connection plates for connecting laminated flat copper bars
- 7.30 Maxi-PLS 45 S, Maxi-PLS 45, Maxi-PLS 60 – plaques de raccordement pour raccorder les barres de cuivre plates lamellées



$M_A =$ (B)

(B) M_A Nm	Klemmraum Clamping area Plage de serrage B x H mm	(A) Best.-Nr. Model No. Référence	
		Maxi-PLS 45 S Maxi-PLS 45	Maxi-PLS 60
20	32x20	9640.330	–
25	63x20	9640.340	–
30	100x20	9640.350	–
25	32x20	–	9650.330
30	63x20	–	9650.340



IS8



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8. Montage Dachblech

8. Fitting the roof plate

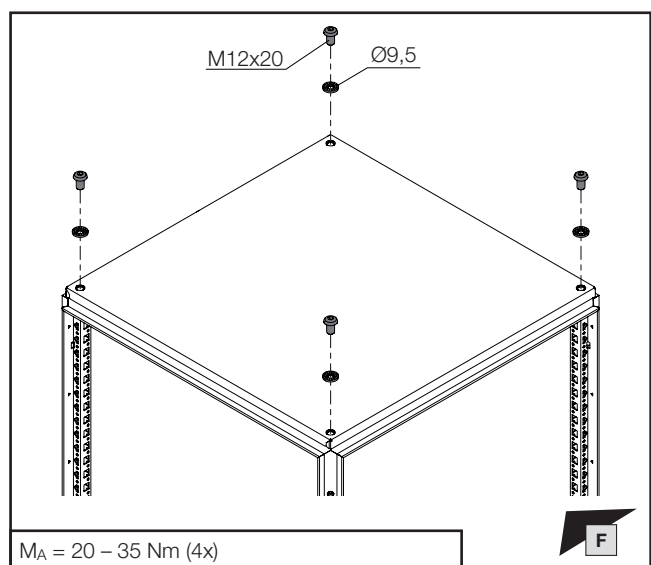
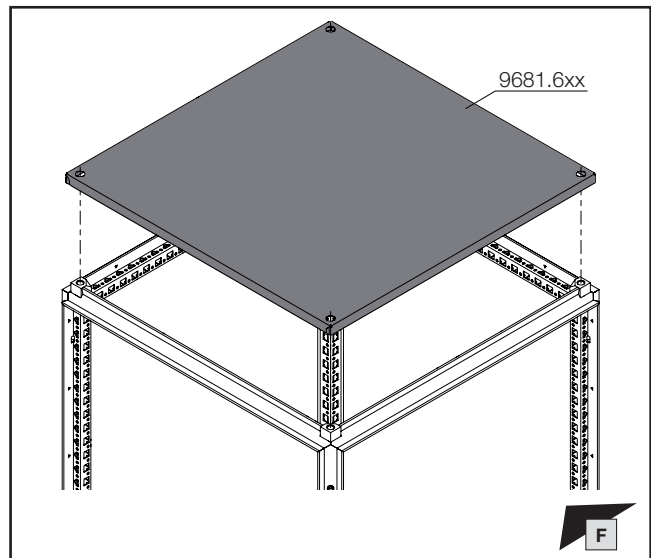
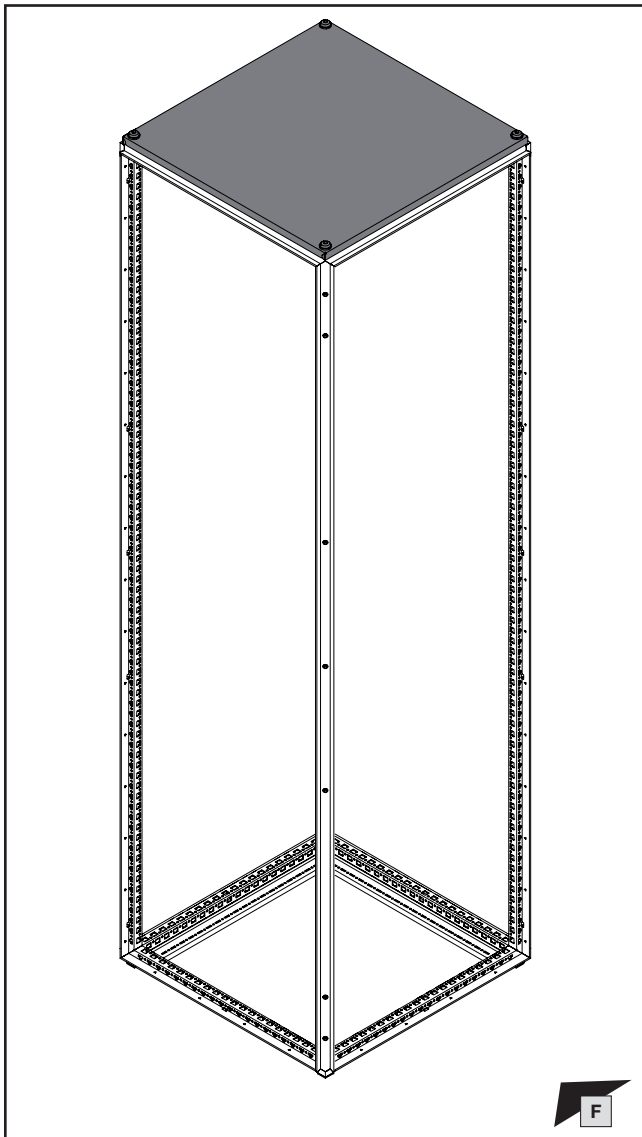
8. Montage du toit



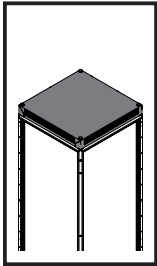
8.1 Dachblech IP 55, geschlossen

8.1 Roof plate IP 55, solid

8.1 Toit IP 55 plein



$M_A = 20 - 35 \text{ Nm (4x)}$



SW19



PH3



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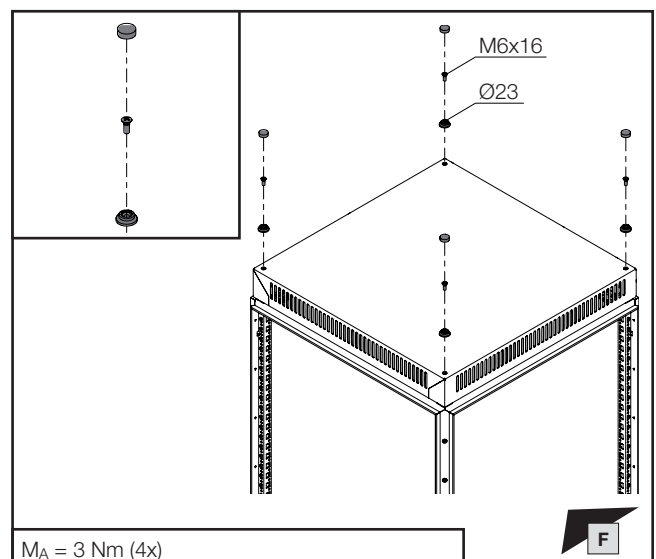
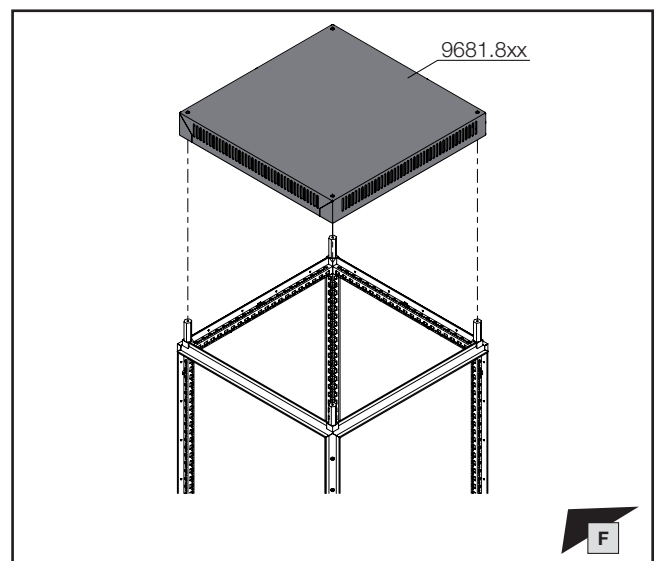
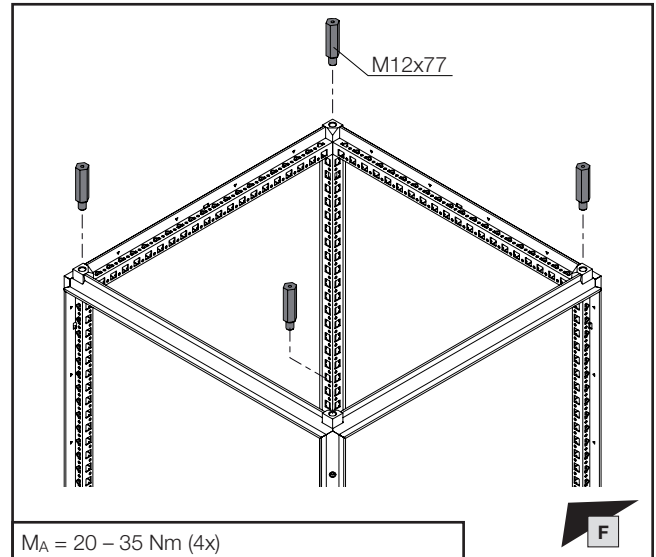
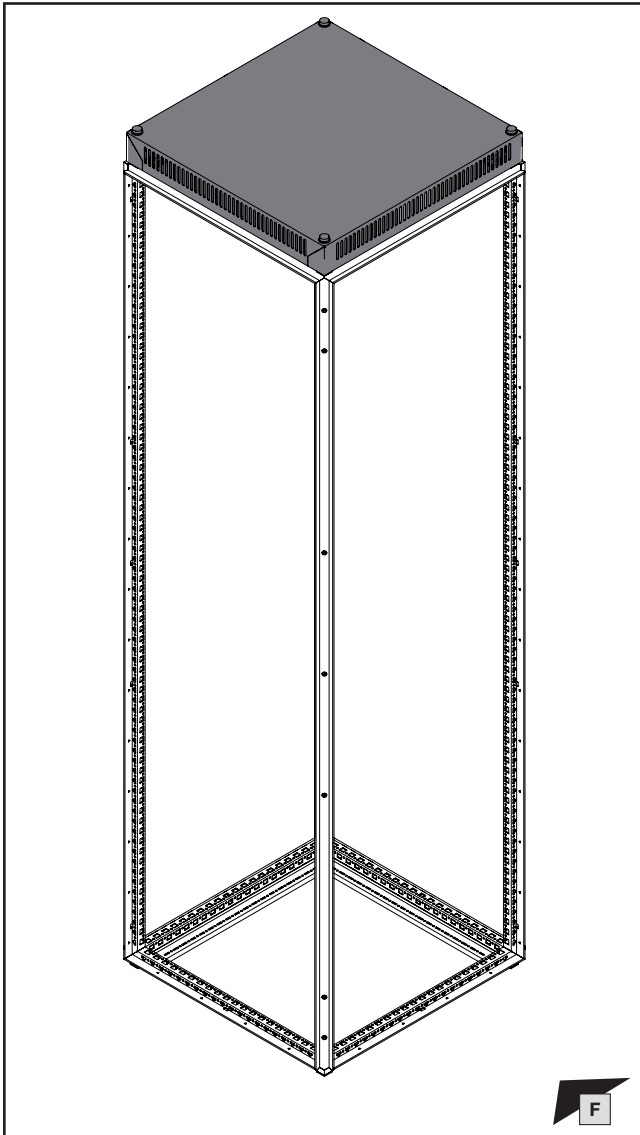
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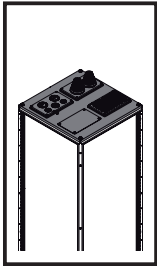
FR

8. Montage Dachblech 8. Fitting the roof plate 8. Montage du toit



- 8.2 Dachblech IP 2X, mit Belüftungsöffnung
- 8.2 Roof plate IP 2X, with ventilation hole
- 8.2 Toit IP 2X avec ouïe d'aération





TX30



TX25



DE

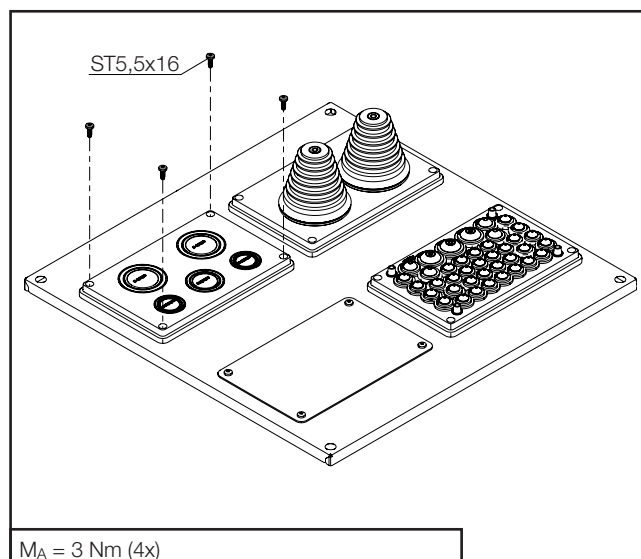
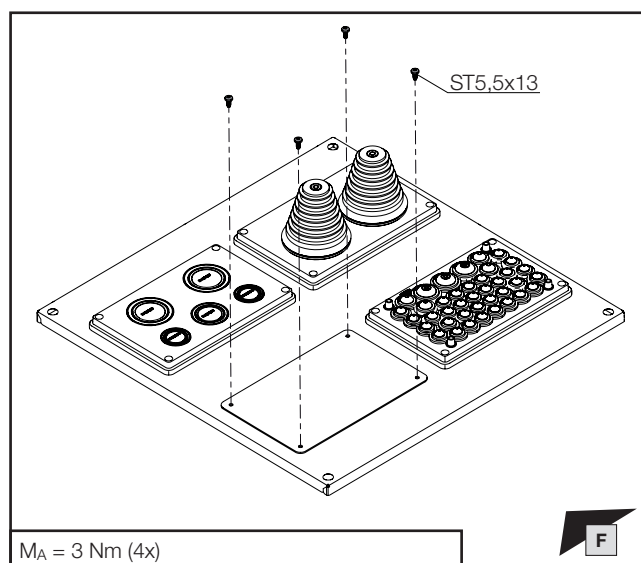
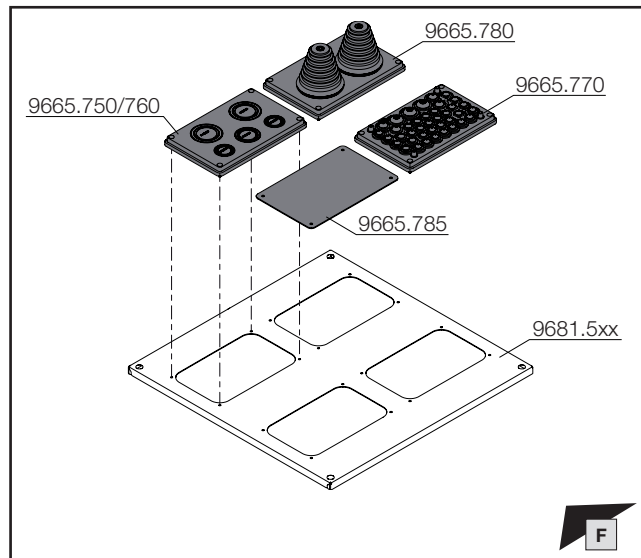
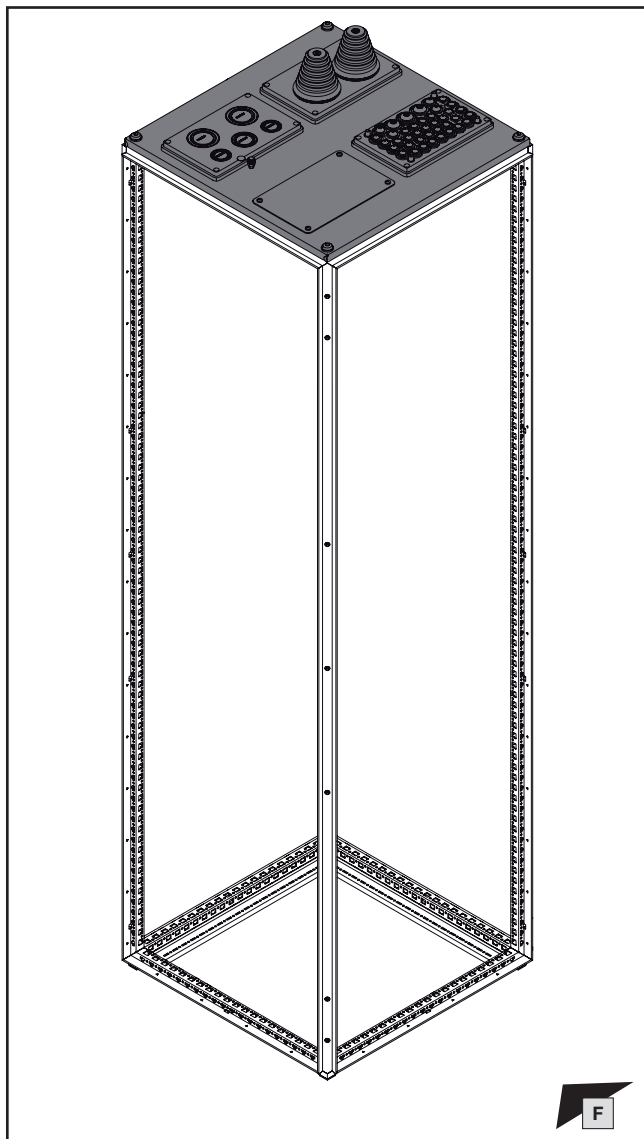
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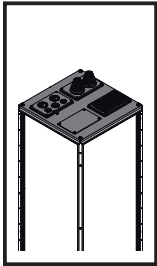
FR

8. Montage Dachblech 8. Fitting the roof plate 8. Montage du toit



- 8.3 Dachblech für Kabeleinführungsflansche
- 8.3 Roof plate for cable entry glands
- 8.3 Toit pour plaque d'introduction de câbles





IS8



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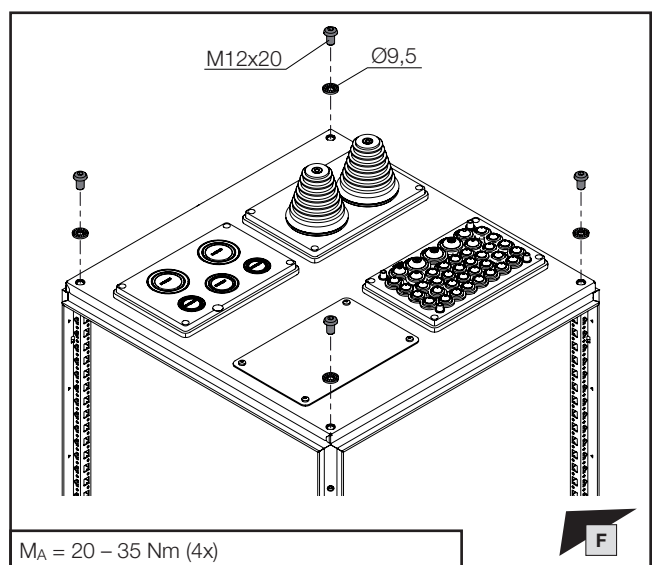
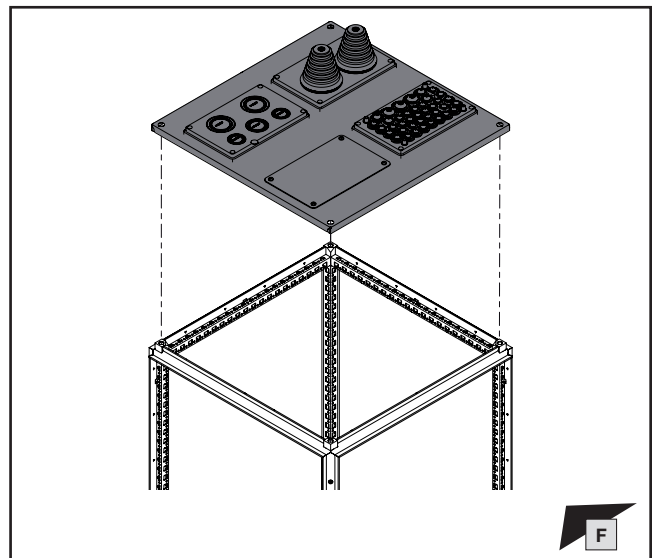
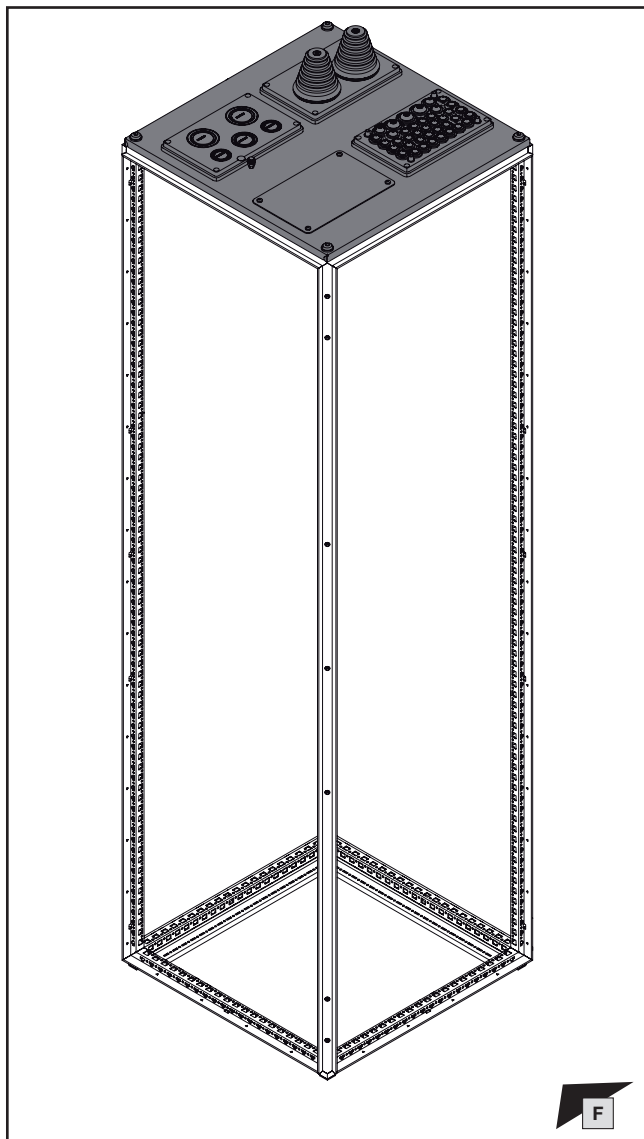
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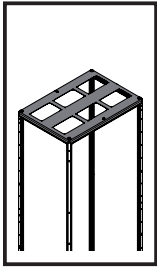
FR

8. Montage Dachblech 8. Fitting the roof plate 8. Montage du toit



- 8.3 Dachblech für Kabeleinführungsflansche
- 8.3 Roof plate for cable entry glands
- 8.3 Toit pour plaque d'introduction de câbles





IS8



TX30



DE

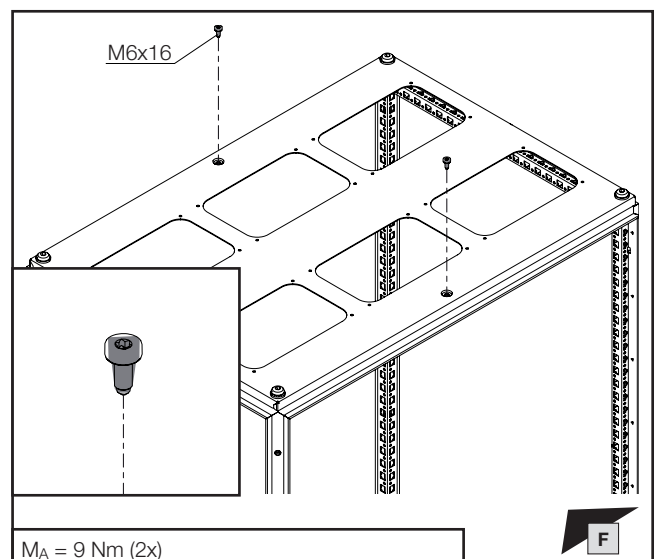
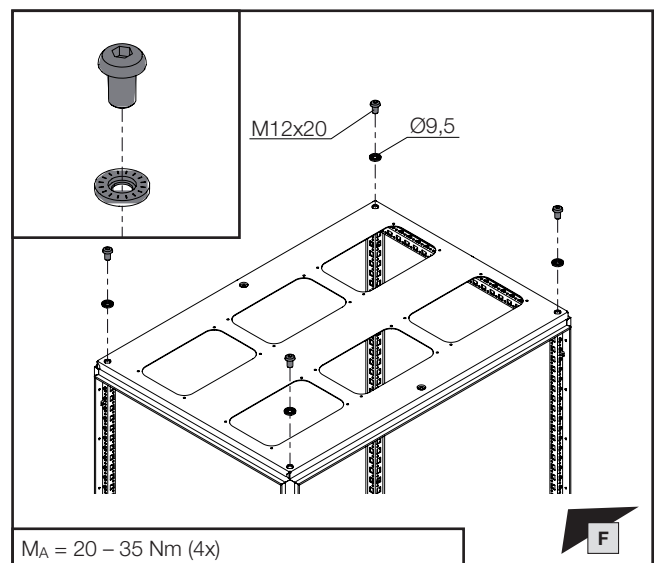
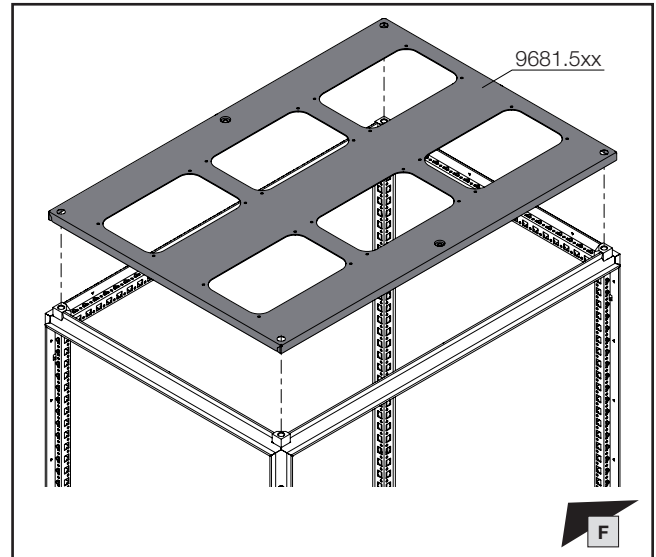
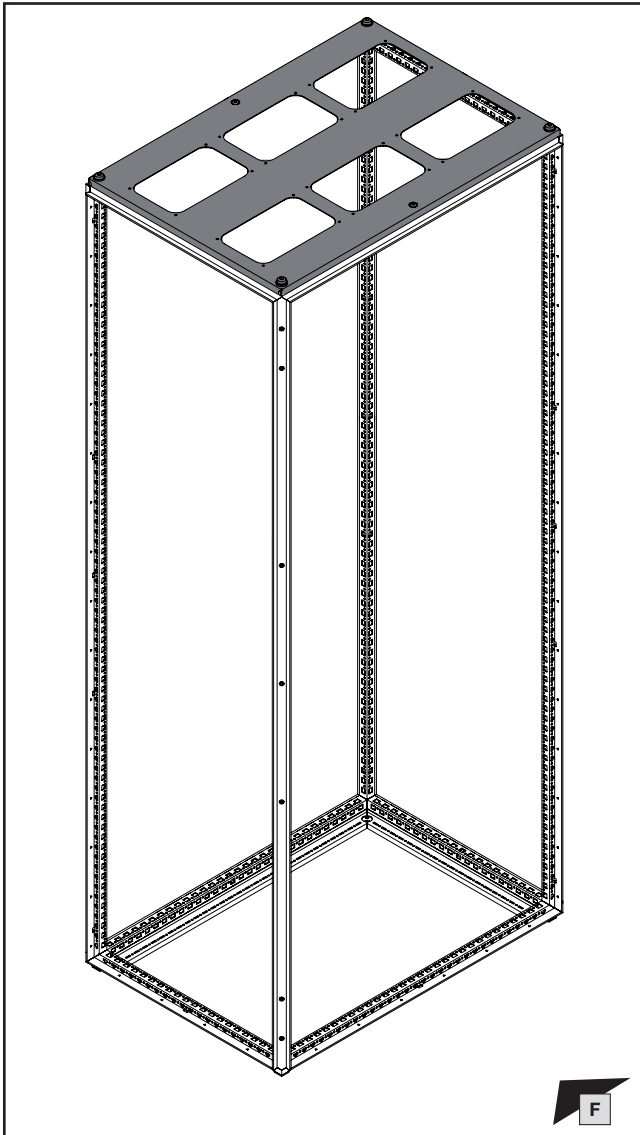
EN

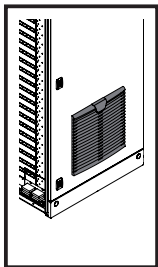
FR

8. Montage Dachblech 8. Fitting the roof plate 8. Montage du toit

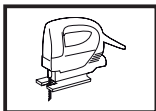
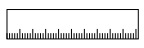


- 8.4 Dachblech mit zusätzlicher Mittelfestigung – Schrankbreite > 800 mm
8.4 Roof plate with additional centre fixing attachment – Enclosure width > 800 mm
8.4 Toit avec fixation médiane complémentaire – largeur d'armoire > 800 mm





mm



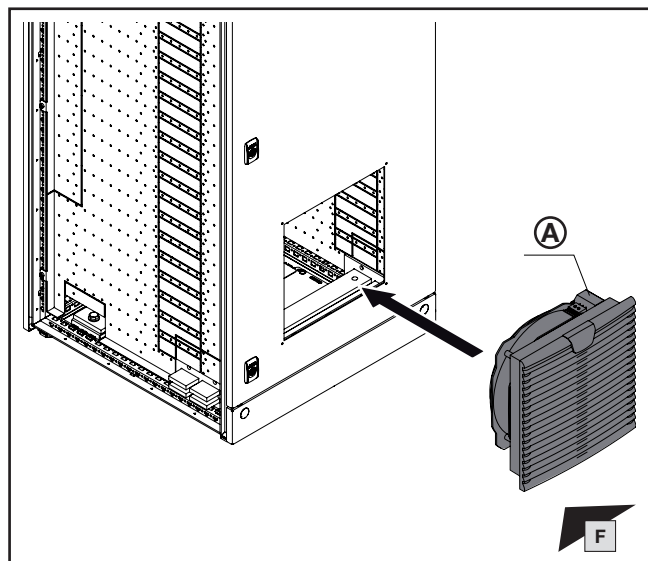
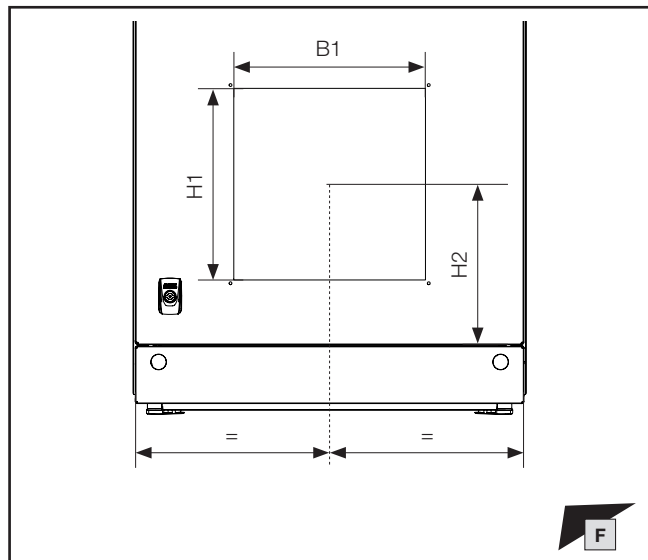
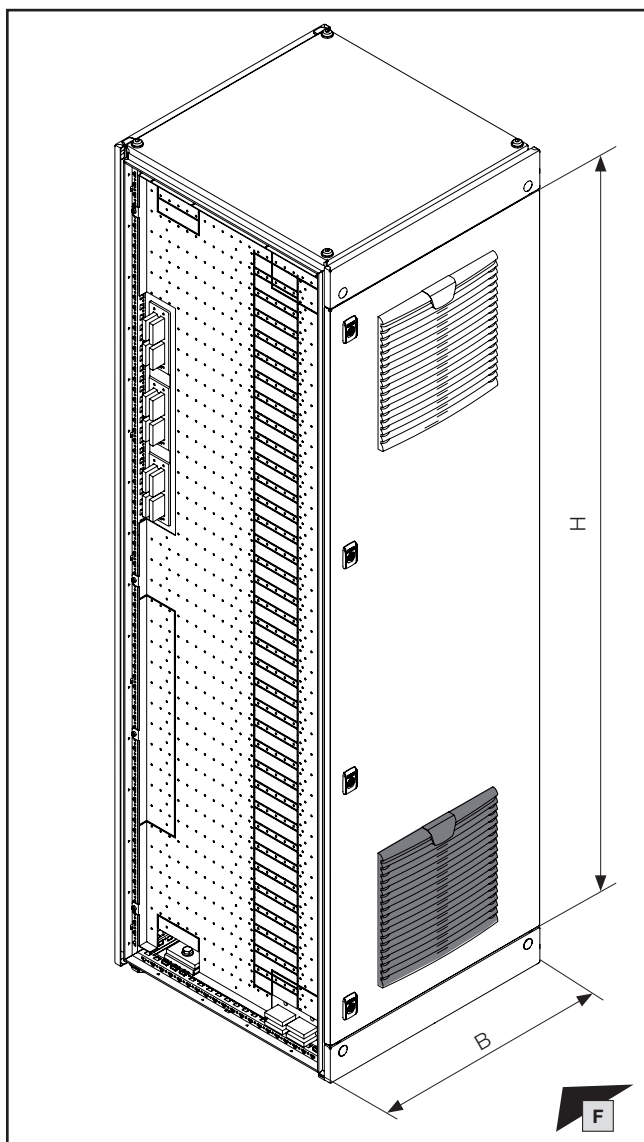
9. Montage Zwangsbelüftung

9. Installing forced ventilation

9. Montage de l'aération forcée



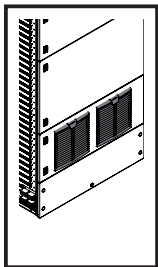
- 9.1 Zwangsbelüftung für ACB-Feld – Lüfter 292 mm (Frontblende unten 100 mm)
- 9.1 Forced ventilation for ACB section – Fan 292 mm (front trim panel, bottom, 100 mm)
- 9.1 Aération forcée pour zone des disjoncteurs de puissance – ventilateur 292 mm (cache inférieur avant hauteur 100 mm)



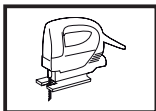
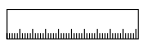
EC-Filterlüfter
EC fan-and-filter unit
Ventilateur à filtre EC

DE
EN
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B mm	H mm	B1 mm	H1 mm	H2 mm	^(A) Best.-Nr. Model No. Référence
400	400...800	292	292	299	3243.500
600	400...800	292	292	206	3244.500
800	400...800	292	292	206	3244.500
400	≥ 1000	292	292	299	3243.500
600	≥ 1000	292	292	245	3244.500
800	≥ 1000	292	292	245	3244.500



mm



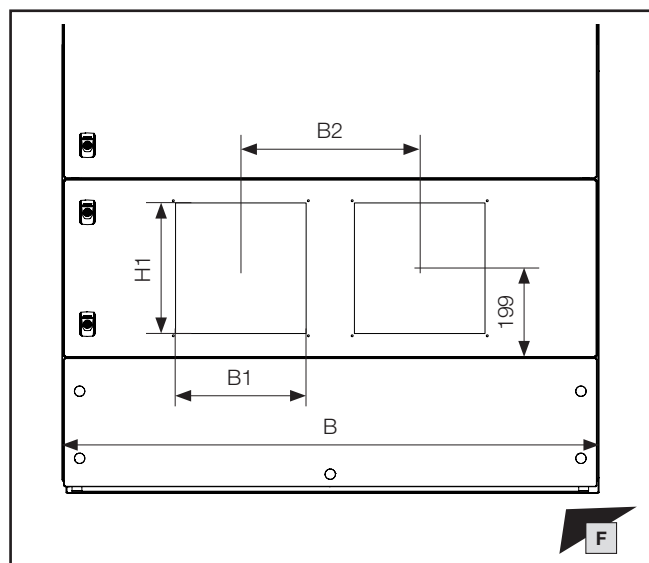
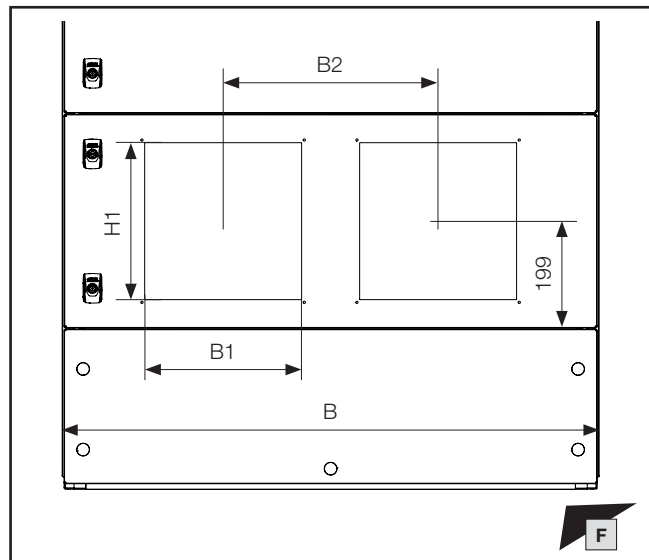
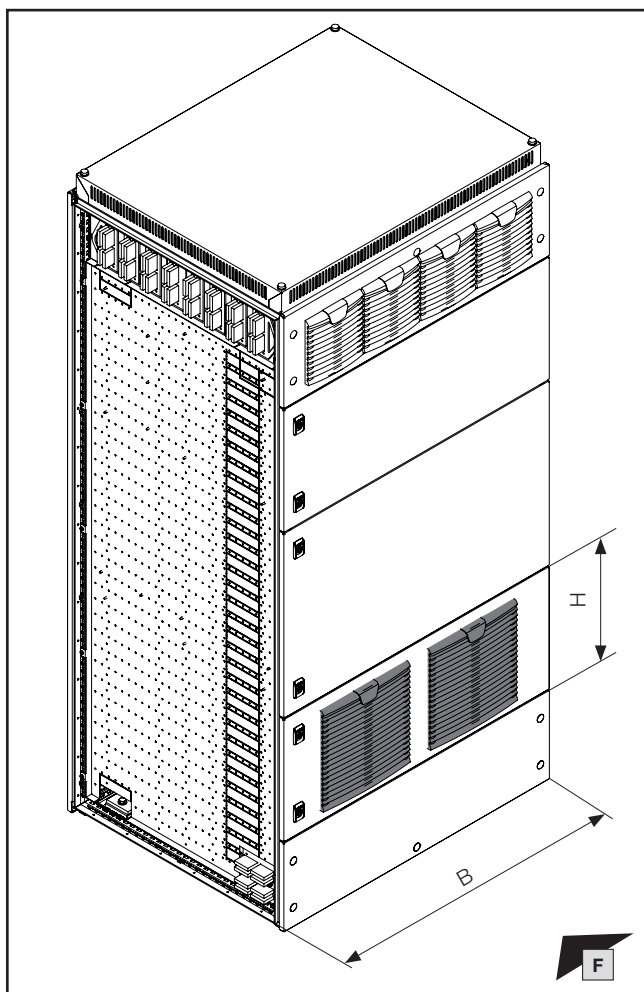
9. Montage Zwangsbelüftung

9. Installing forced ventilation

9. Montage de l'aération forcée

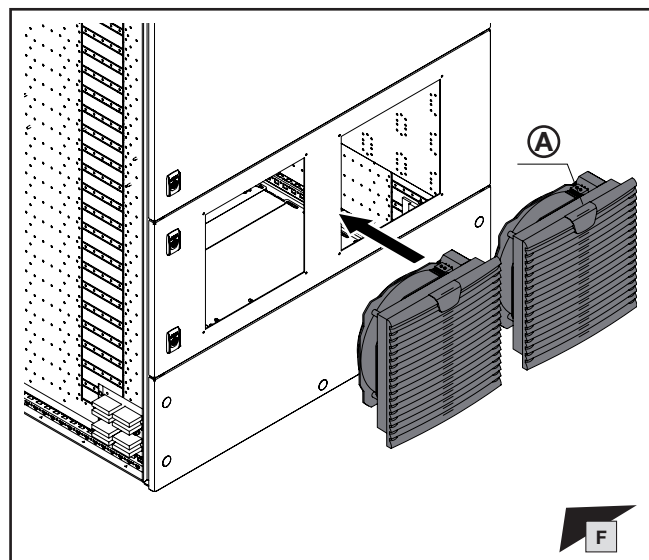


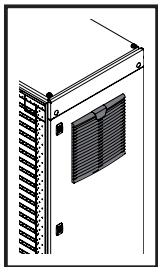
- 9.2 Zwangsbelüftung für ACB-Feld – Lüfter 292 mm (Frontblende unten 300 mm)
- 9.2 Forced ventilation for ACB section – Fan 292 mm (front trim panel, bottom, 300 mm)
- 9.2 Aération forcée pour zone des disjoncteurs de puissance – ventilateur 292 mm (cache inférieur avant hauteur 300 mm)



B mm	H mm	B1 mm	H1 mm	B2 mm	(A) Best.-Nr. Model No. Référence
1000	400	292	292	400	3245.500
1200	400	292	292	400	3245.500

EC-Filterlüfter
EC fan-and-filter unit
Ventilateur à filtre EC





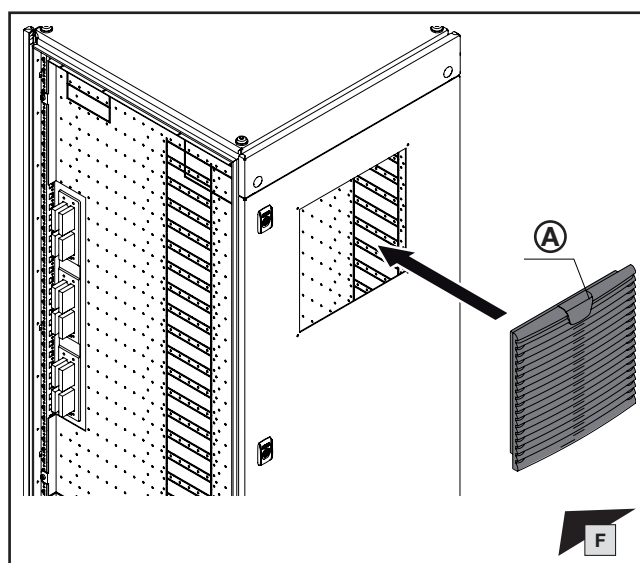
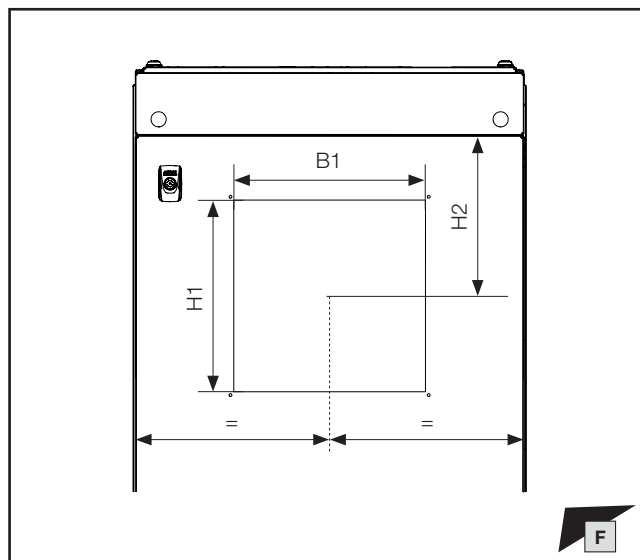
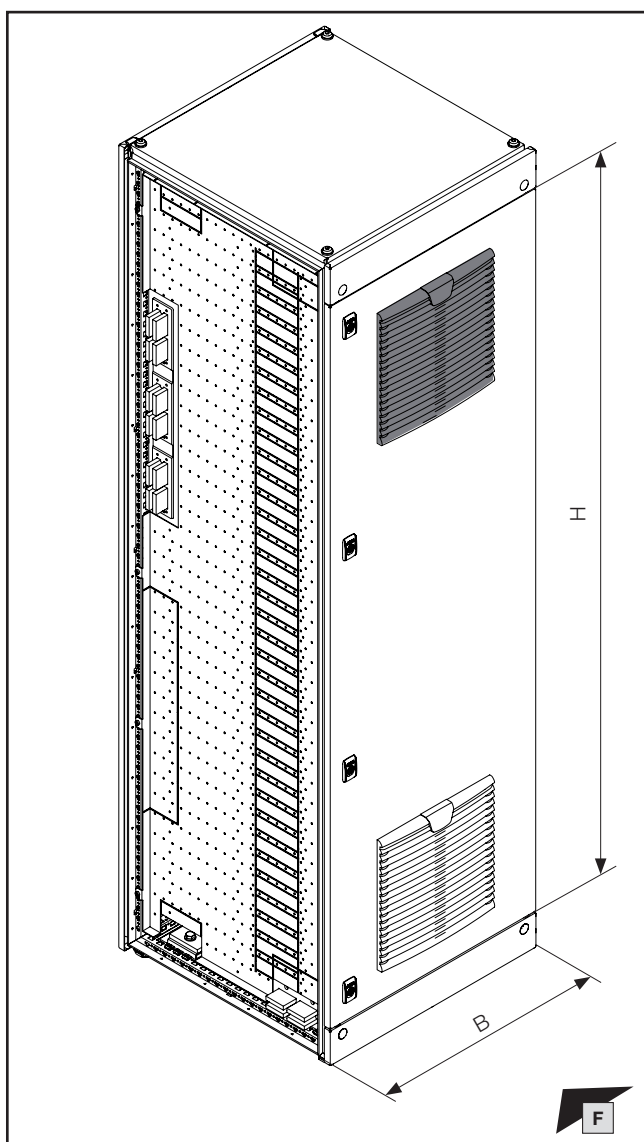
9. Montage Zwangsbelüftung

9. Installing forced ventilation

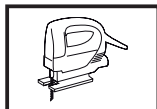
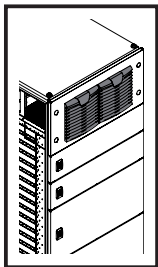
9. Montage de l'aération forcée



- 9.3 Zwangsbelüftung für ACB-Feld – Austrittsfilter 292 mm (Frontblende oben 100 mm)
- 9.3 Forced ventilation for ACB section – Outlet filter 292 mm (front trim panel, top, 100 mm)
- 9.3 Aération forcée pour zone des disjoncteurs de puissance – filtre de sortie 292 mm (cache supérieur avant hauteur 100 mm)



B mm	H mm	B1 mm	H1 mm	H2 mm	^(A) Best.-Nr. Model No. Référence
400	400...800	292	292	299	3243.200
600	400...800	292	292	206	3243.200
800	400...800	292	292	206	3243.200
400	≥ 1000	292	292	299	3243.200
600	≥ 1000	292	292	245	3243.200
800	≥ 1000	292	292	245	3243.200



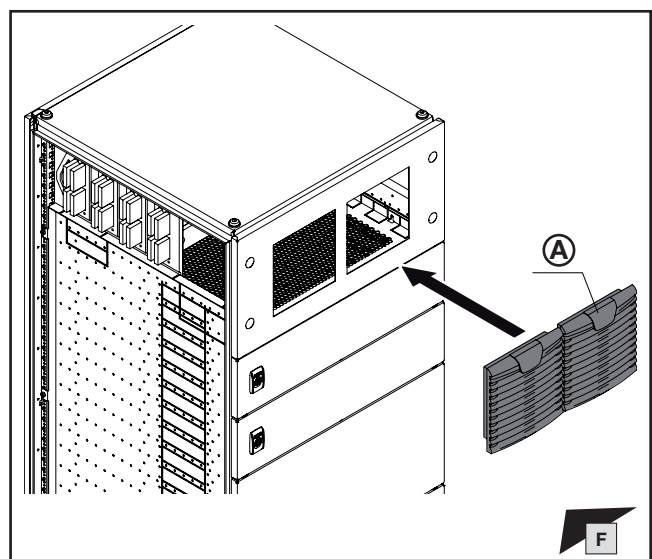
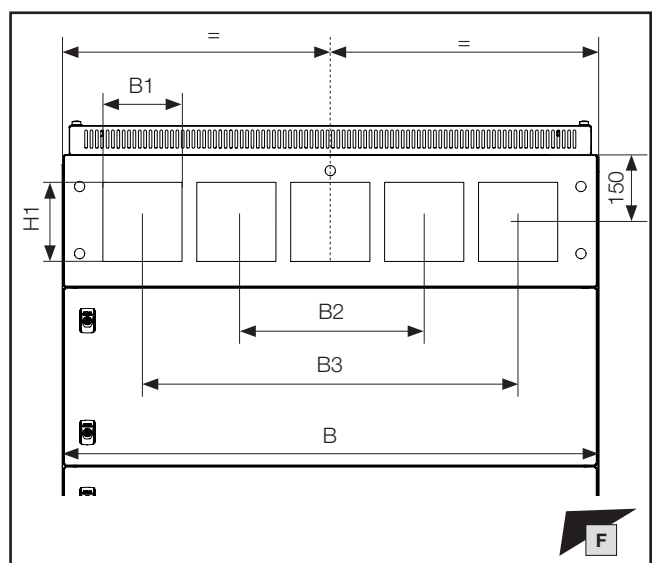
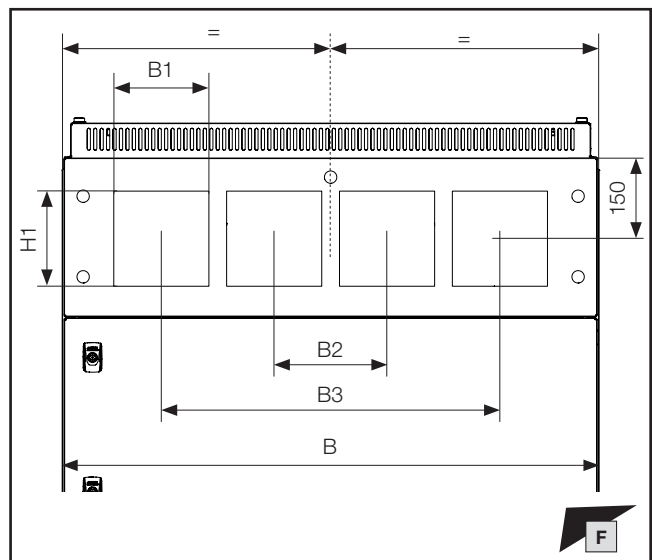
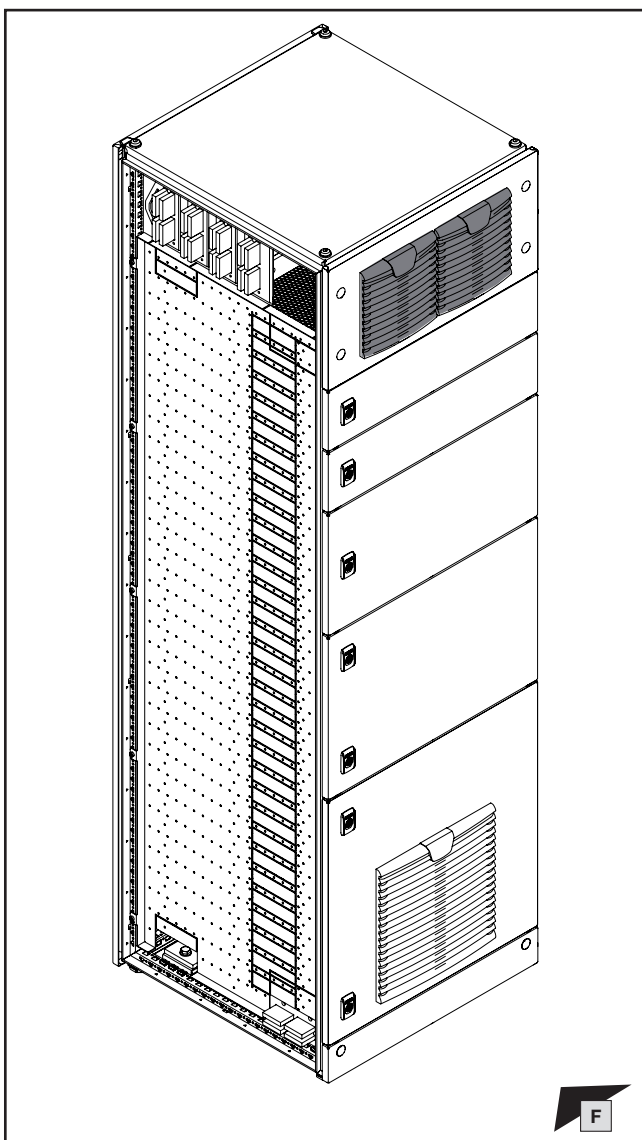
9. Montage Zwangsbelüftung

9. Installing forced ventilation

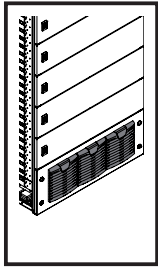
9. Montage de l'aération forcée



- 9.4 Zwangsbelüftung für Abgangs- und ACB-Feld – Austrittsfilter 177 mm (Frontblende oben 300 mm)
- 9.4 Forced ventilation for outgoing section and ACB section – Outlet filter 177 mm (front trim panel, top, 300 mm)
- 9.4 Aération forcée pour zone des départs et disjoncteurs de puissance – filtre de sortie 177 mm (cache supérieur avant 300 mm)



B mm	B1 mm	H1 mm	B2 mm	B3 mm	^(A) Best.-Nr. Model No. Référence
400	177	177	–	–	1 x 3239.200
600	177	177	210	–	2 x 3239.200
800	177	177	210	420	3 x 3239.200
1000	177	177	210	630	4 x 3239.200
1200	177	177	420	840	5 x 3239.200



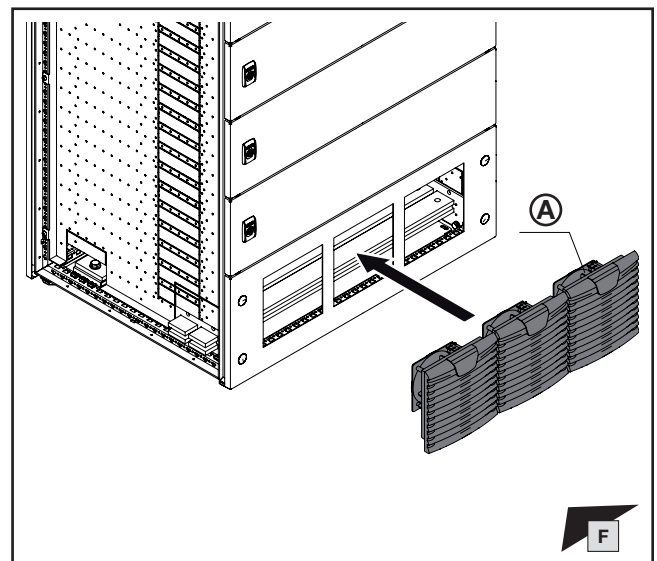
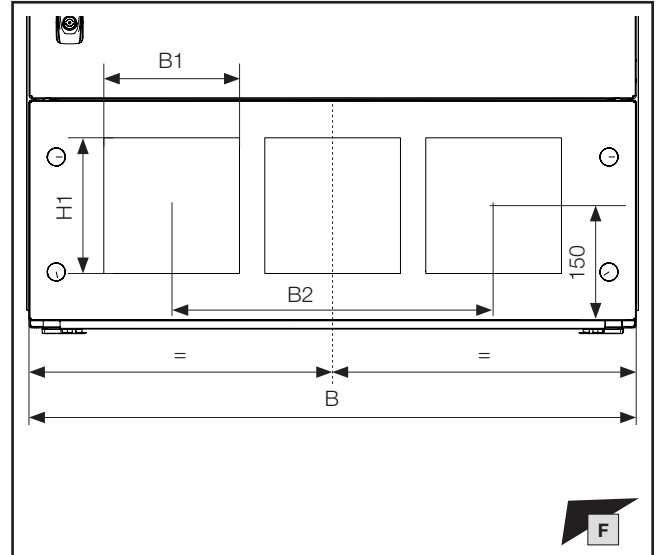
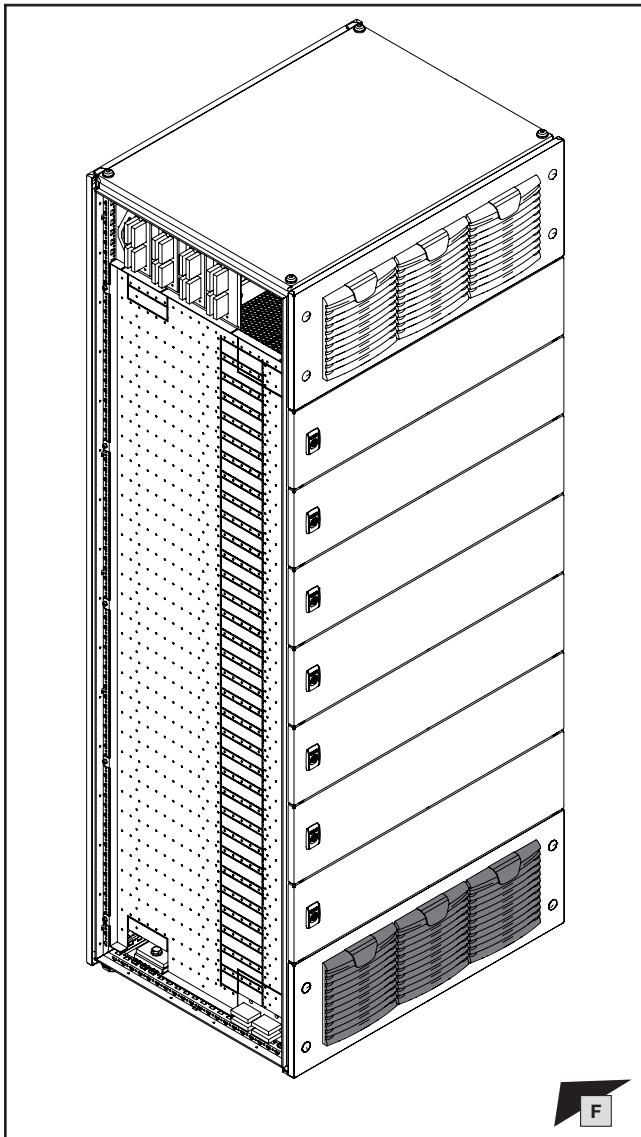
9. Montage Zwangsbelüftung

9. Installing forced ventilation

9. Montage de l'aération forcée



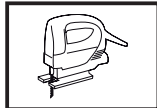
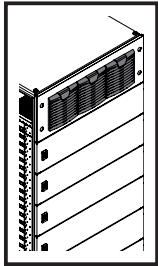
- 9.5 Zwangsbelüftung für Abgangsfeld – Lüfter 177 mm (Front-
blende unten 300 mm)
- 9.5 Forced ventilation for outgoing section – Fan 177 mm
(front trim panel, bottom, 300 mm)
- 9.5 Aération forcée pour zone des départs – ventilateur
177 mm (cache inférieur avant hauteur 300 mm)



EC-Filterlüfter
EC fan-and-filter unit
Ventilateur à filtre EC



B mm	B1 mm	H1 mm	B2 mm	(A) Best.-Nr. Model No. Référence
400	177	177	–	1 x 3239.500
600	177	177	210	2 x 3239.500
800	177	177	420	3 x 3239.500



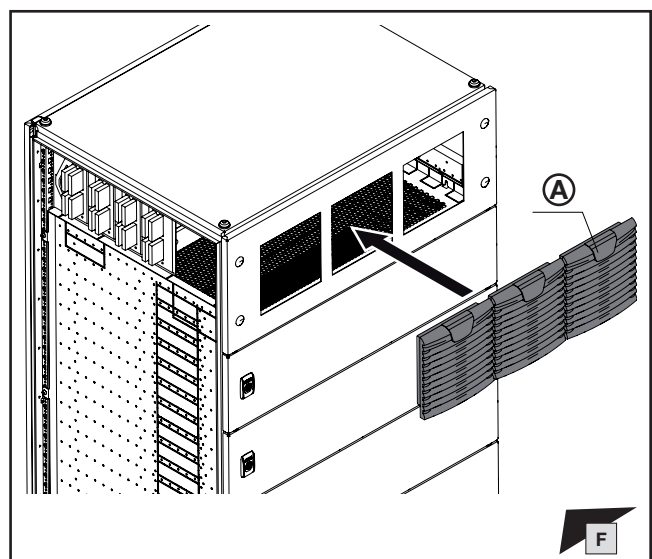
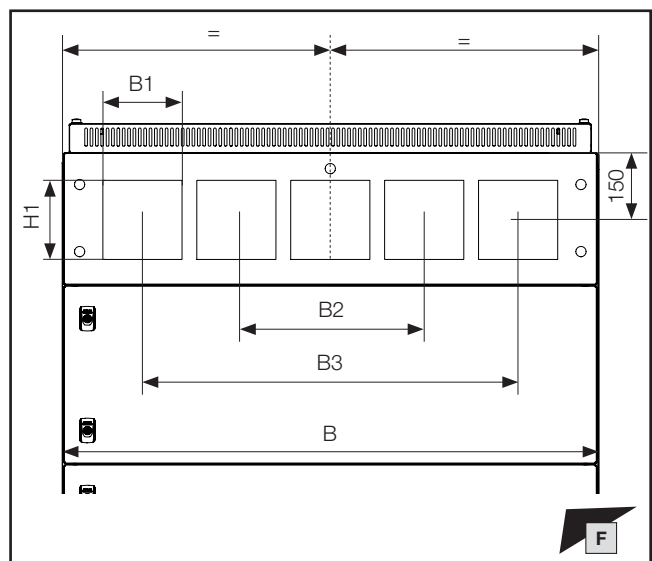
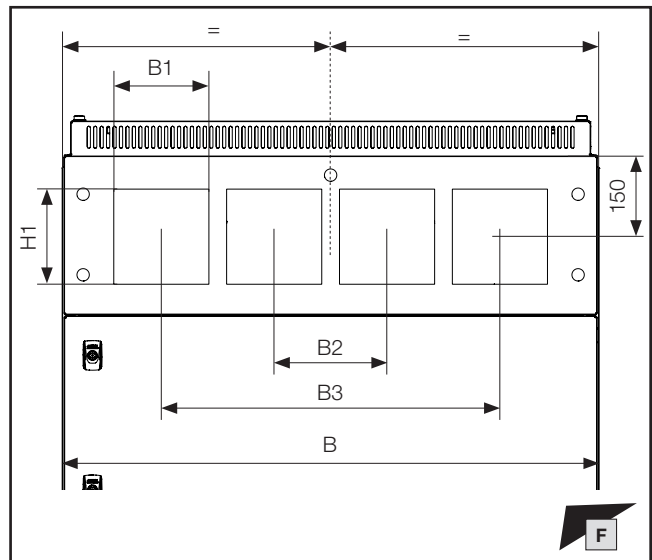
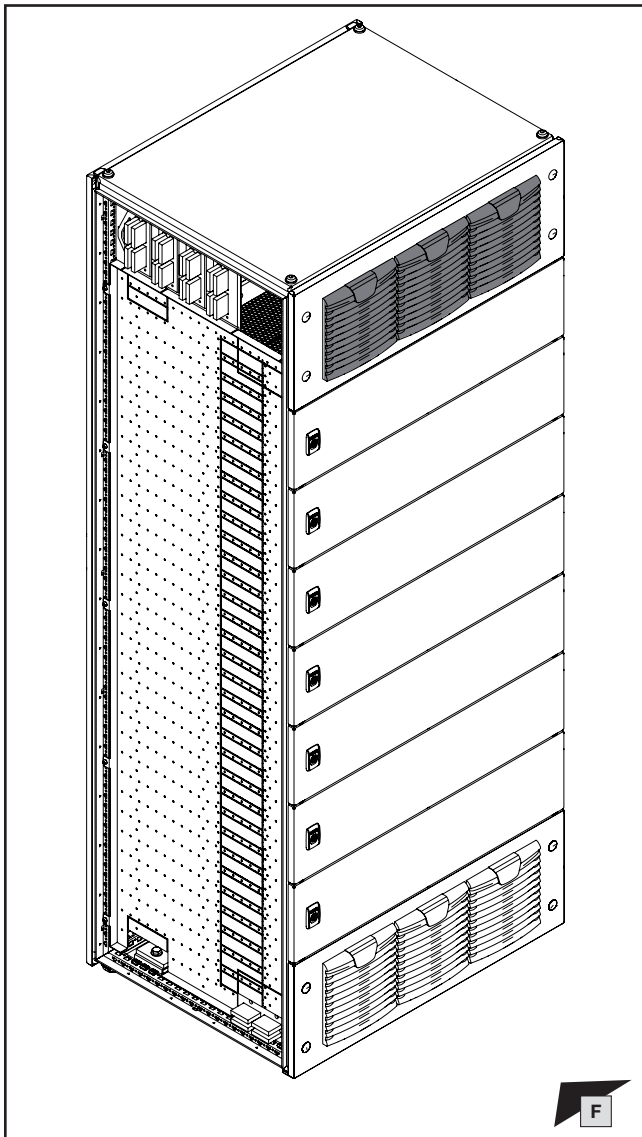
9. Montage Zwangsbelüftung

9. Installing forced ventilation

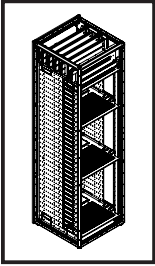
9. Montage de l'aération forcée



- 9.6 Zwangsbelüftung für Abgangsfeld – Austrittsfilter 177 mm (Frontblende oben 300 mm)
- 9.6 Forced ventilation for outgoing section – Outlet filter 177 mm (front trim panel, top, 300 mm)
- 9.6 Aération forcée pour zone des départs – filtre de sortie 177 mm (cache supérieur avant hauteur 300 mm)



B mm	B1 mm	H1 mm	B2 mm	B3 mm	(A) Best.-Nr. Model No. Référence
400	177	177	–	–	1 x 3239.200
600	177	177	210	–	2 x 3239.200
800	177	177	210	420	3 x 3239.200
1000	177	177	210	630	4 x 3239.200
1200	177	177	420	840	5 x 3239.200



10. Montage Verdrahtungskomponenten

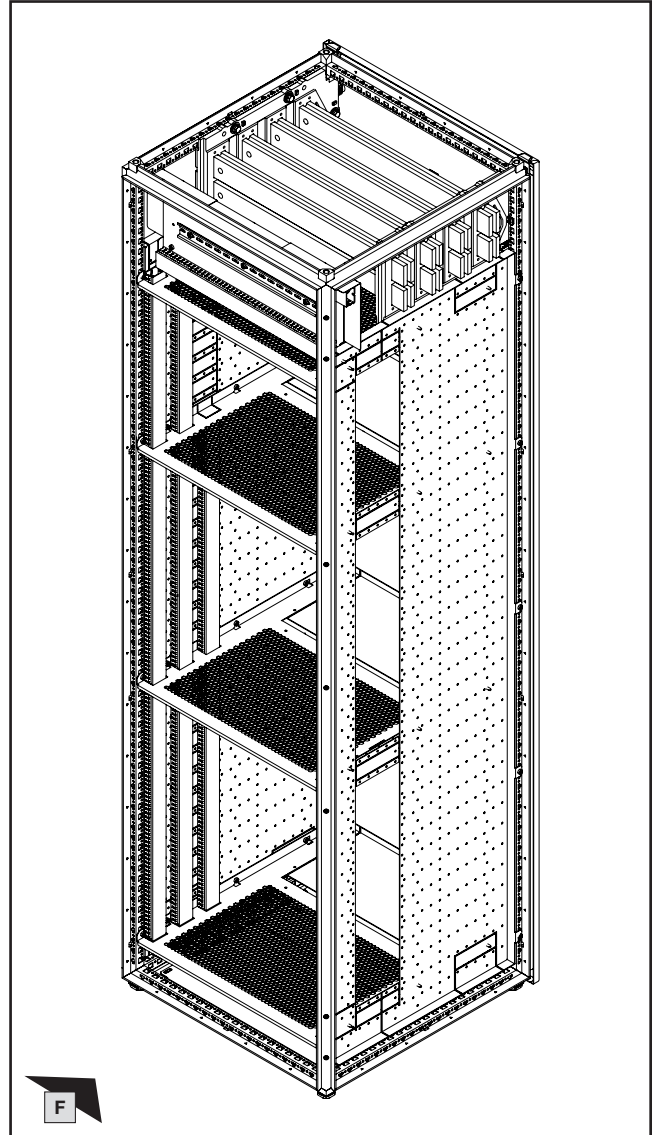
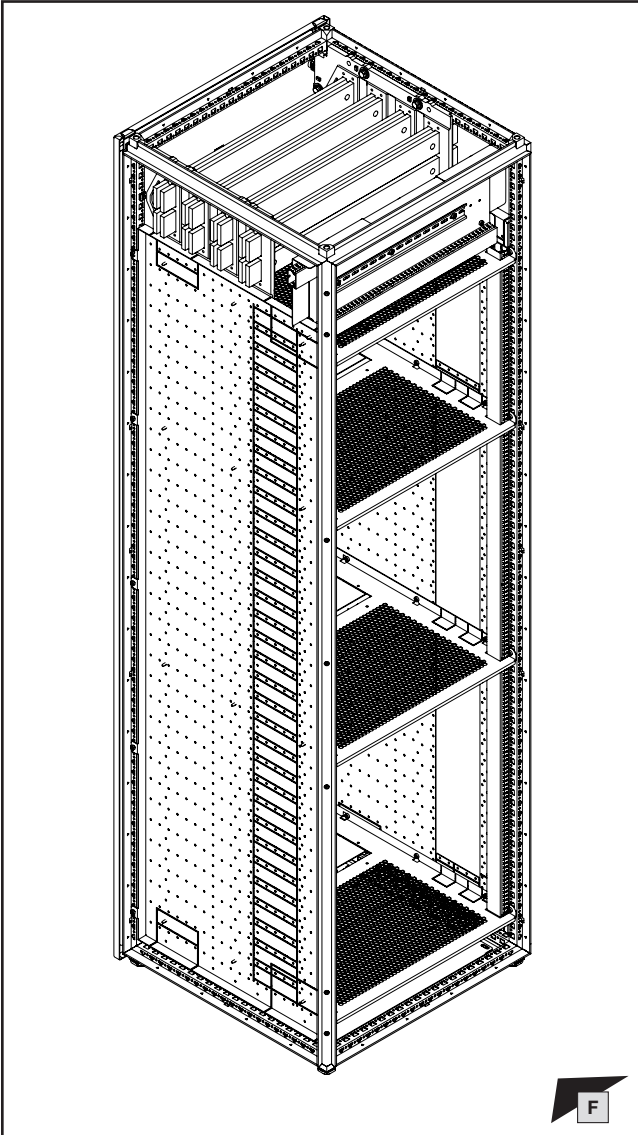
10. Installing the wiring components

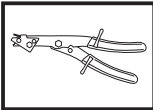
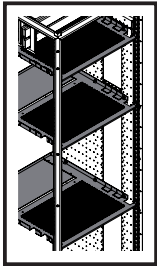
10. Montage des composants de câblage

10.1 Übersicht Verdrahtungsblende und Kabelkanäle

10.1 Overview of wiring panel and cable trunking

10.1 Vue d'ensemble des caches de câblage et goulottes de câbles





10. Montage Verdrahtungskomponenten

10. Installing the wiring components

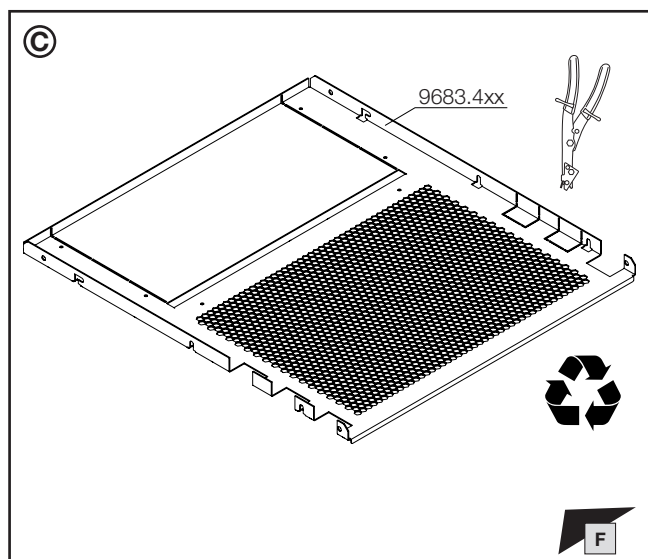
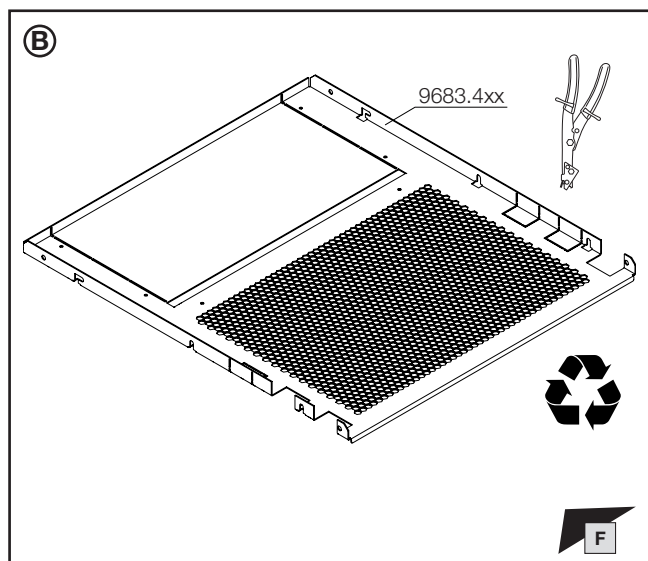
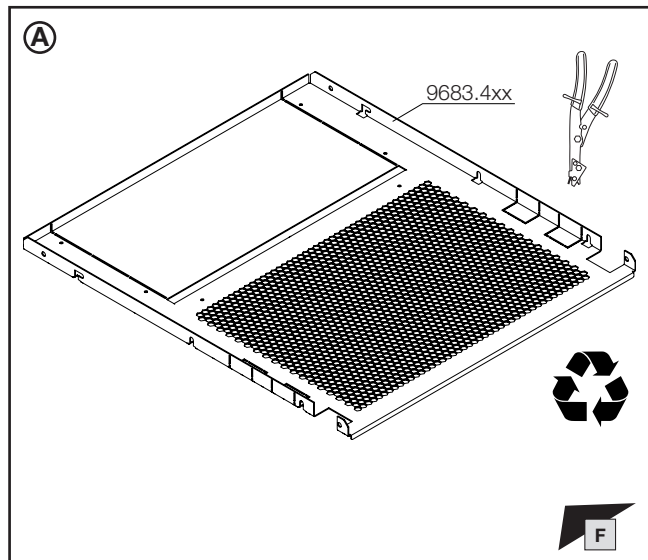
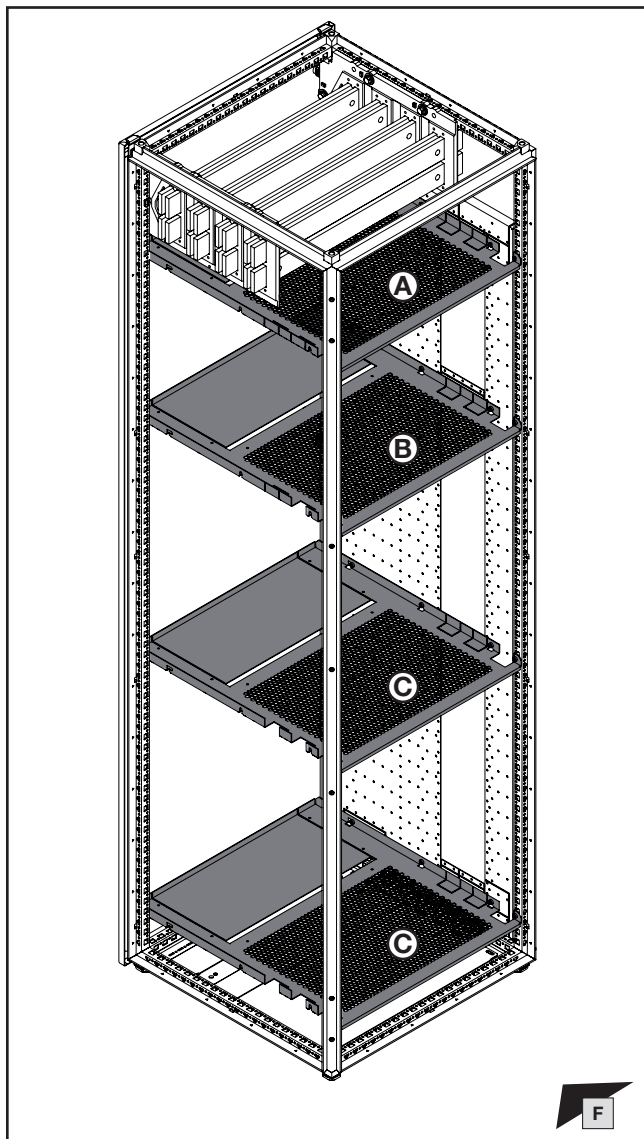
10. Montage des composants de câblage



10.2 Vorbereitung und Montage der Funktionsraumteiler

10.2 Preparing and fitting the compartment dividers

10.2 Préparation et montage des cloisons fonctionnelles



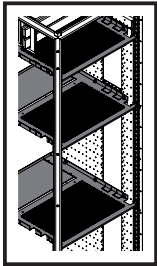
Hinweis / Note / Remarque

Die nachfolgenden Schritte zeigen einen beispielhaften Aufbau mit maximalen Einbauböglichkeiten.
The following steps illustrate a sample structure with maximum installation options.
Les étapes suivantes montrent un exemple de construction avec un maximum de possibilités d'intégration.



Hinweis / Note / Remarque

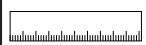
siehe Kapitel 10.5
see chapter 10.5
voir chapitre 10.5



TX30



mm



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10. Montage Verdrahtungskomponenten

10. Installing the wiring components

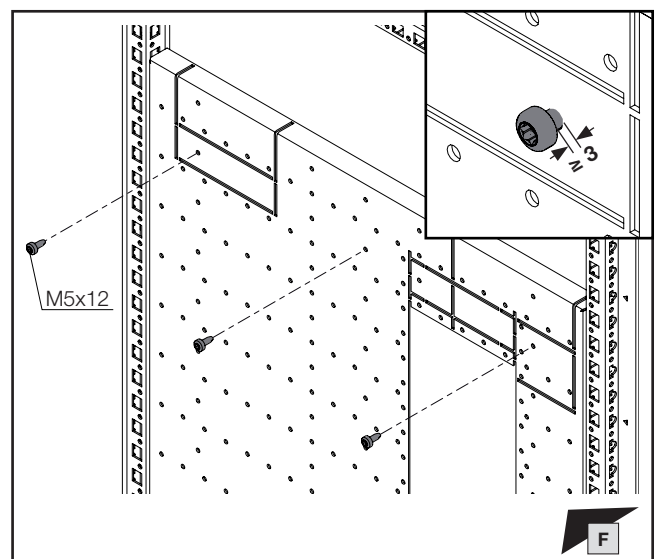
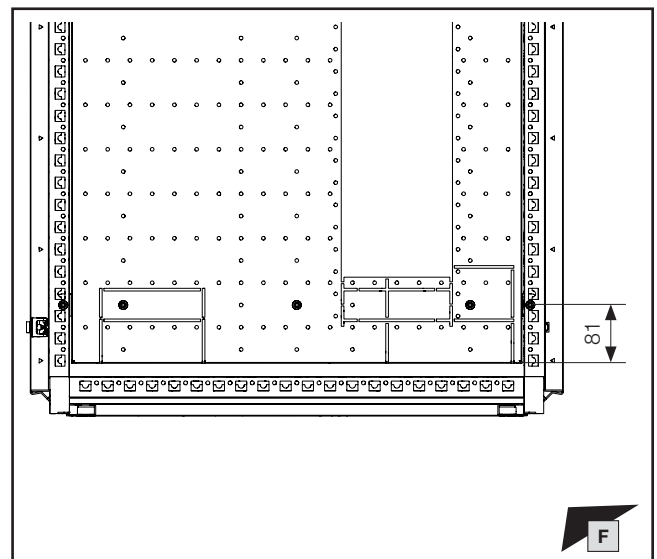
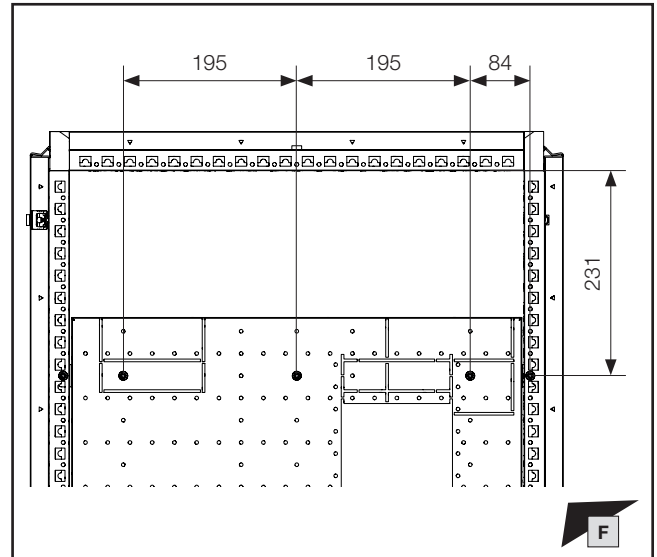
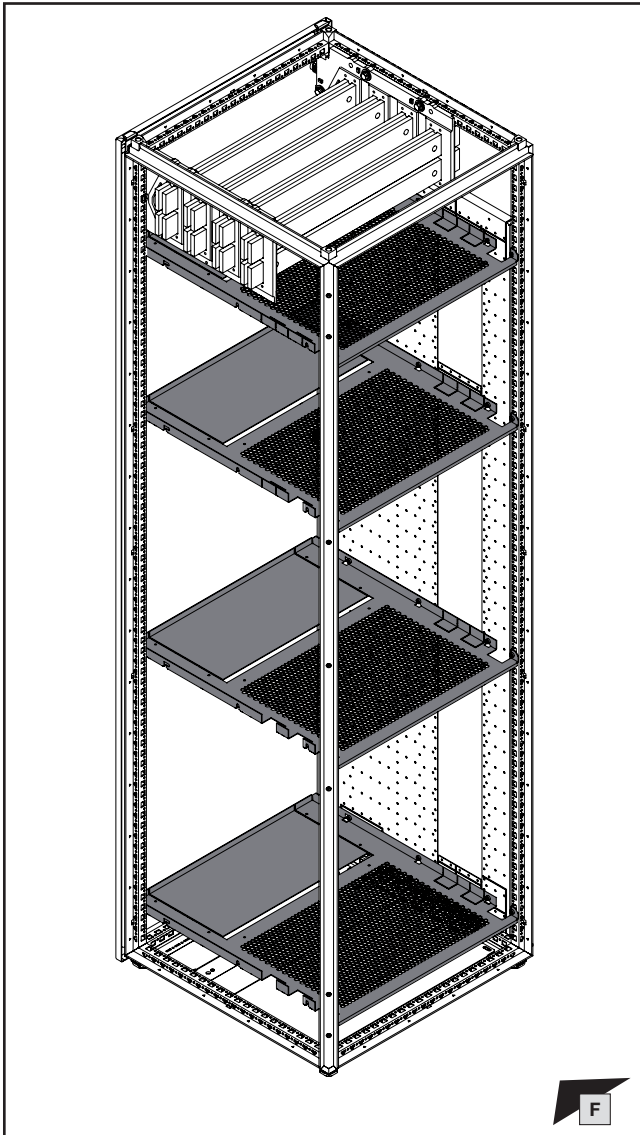
10. Montage des composants de câblage

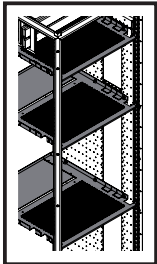


10.2 Vorbereitung und Montage der Funktionsraumteiler

10.2 Preparing and fitting the compartment dividers

10.2 Préparation et montage des cloisons fonctionnelles





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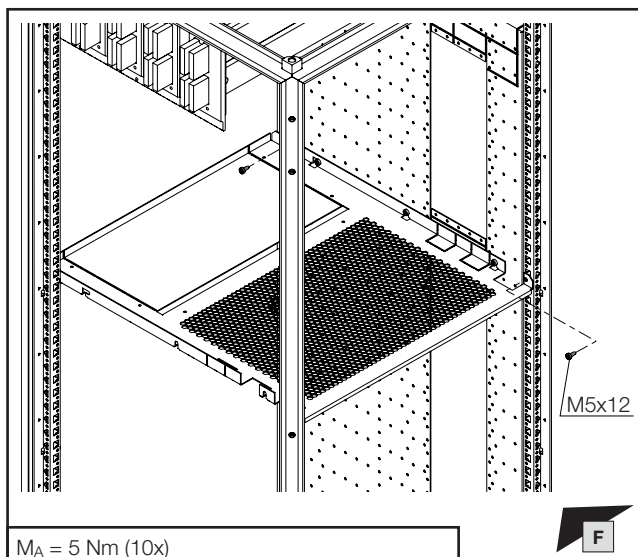
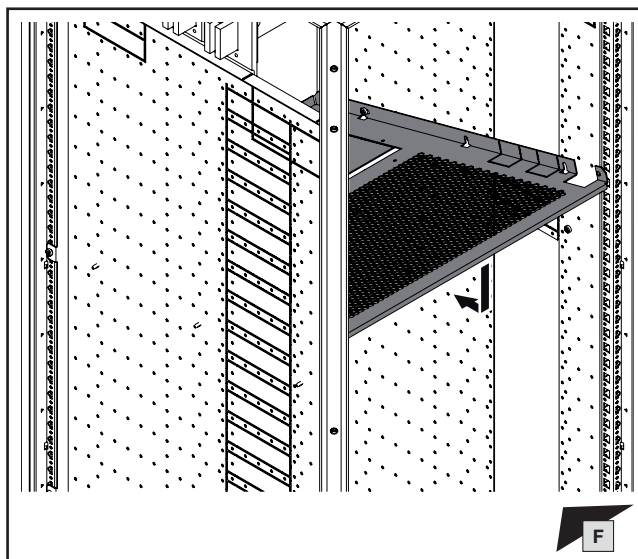
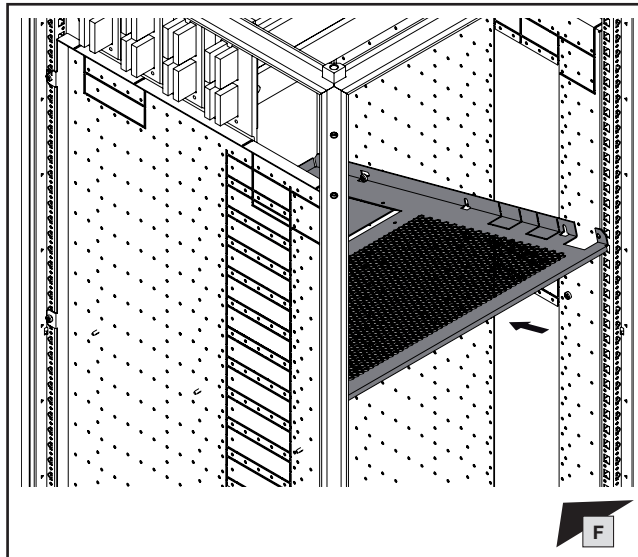
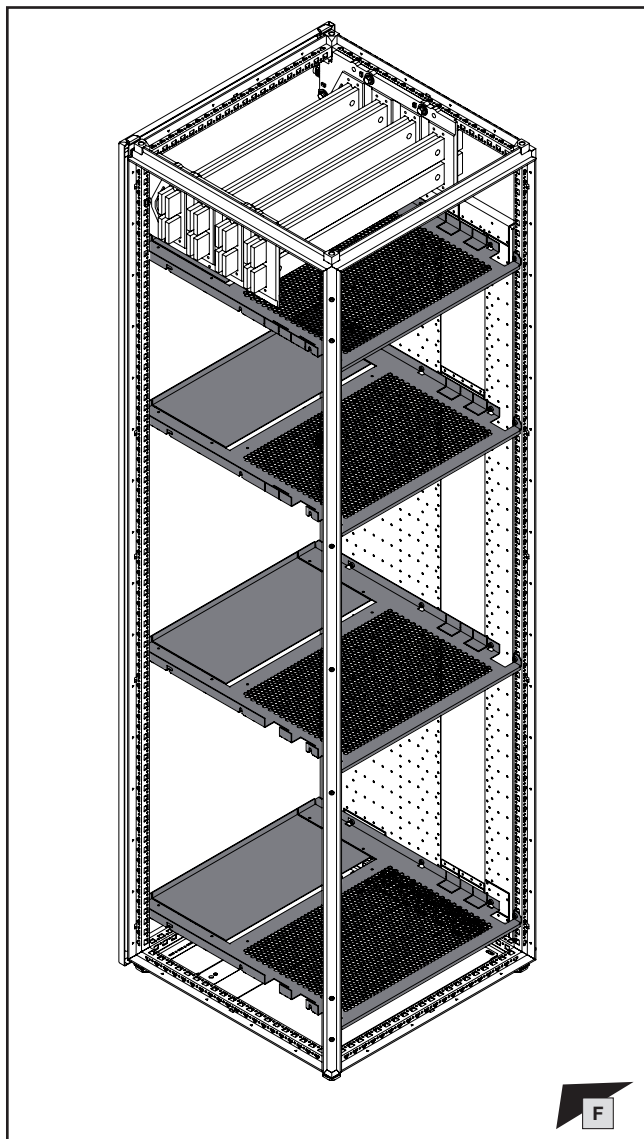


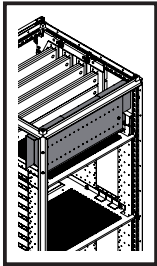
DE EN FR

10. Montage Verdrahtungskomponenten 10. Installing the wiring components 10. Montage des composants de câblage



10.2 Vorbereitung und Montage der Funktionsraumteiler 10.2 Preparing and fitting the compartment dividers 10.2 Préparation et montage des cloisons fonctionnelles





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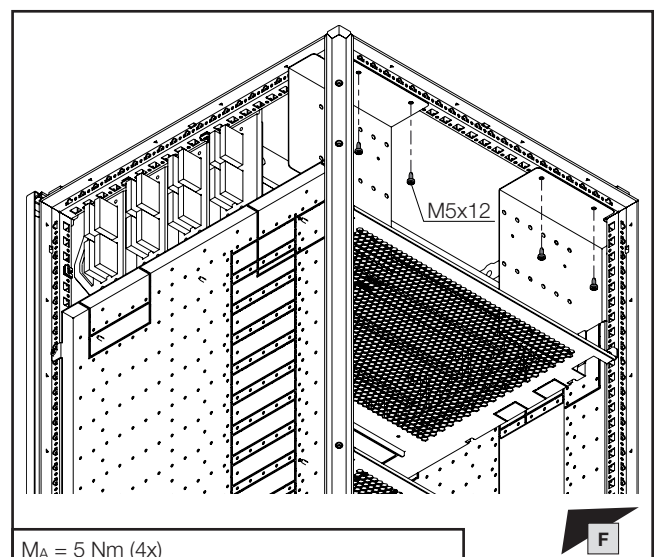
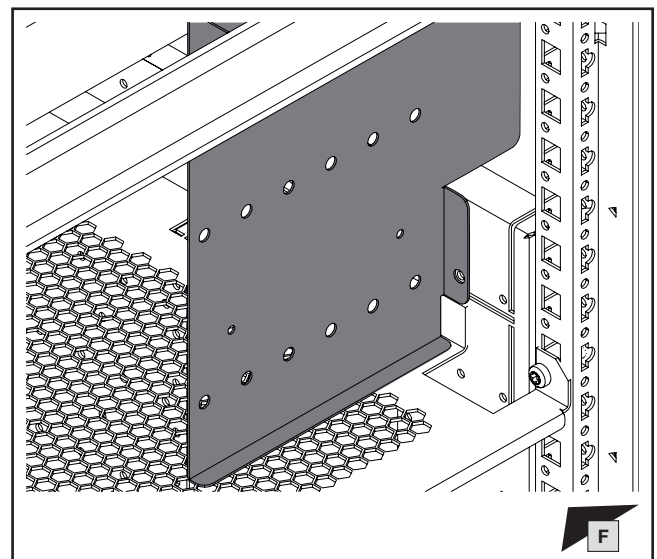
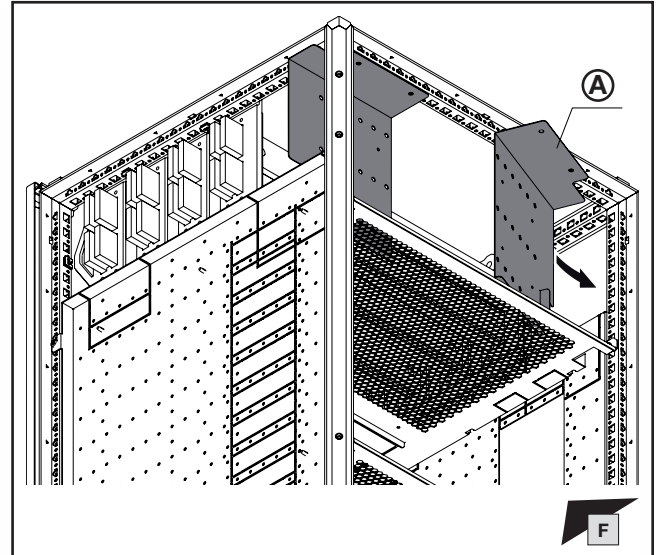
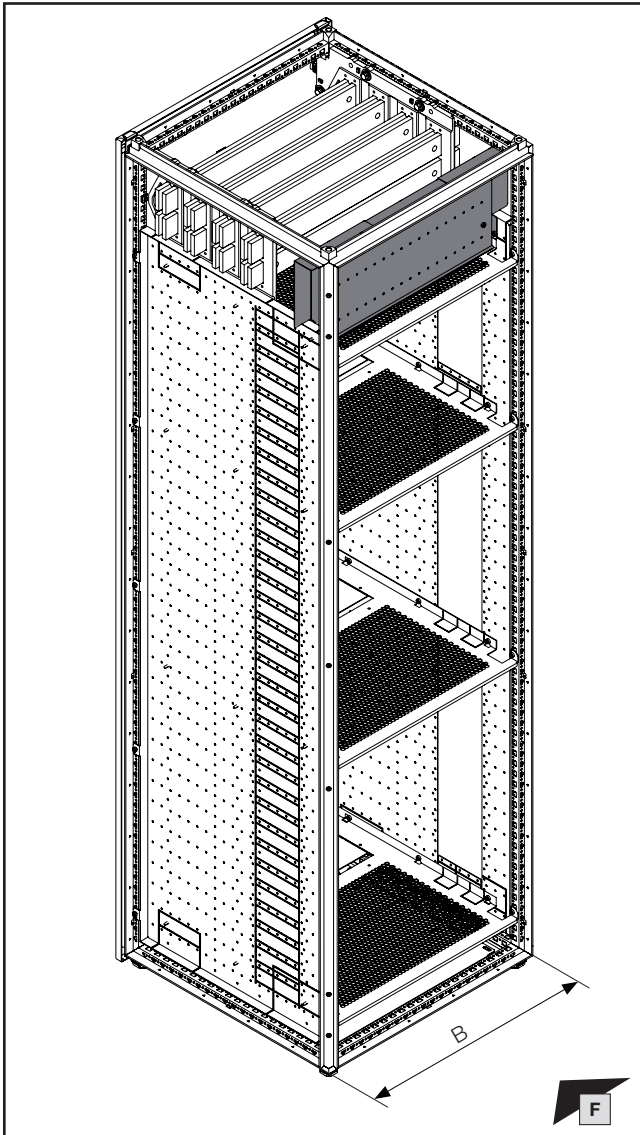


DE EN FR

10. Montage Verdrahtungskomponenten 10. Installing the wiring components 10. Montage des composants de câblage

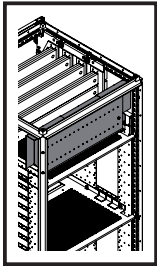


10.3 Montage der Verdrahtungsblende 10.3 Fitting the wiring trim panel 10.3 Montage du cache de câblage



$M_A = 5 \text{ Nm (4x)}$

B mm	(A) Best.-Nr. Model No. Référence
600	9683.736
800	9683.736
1000	9683.738
1200	9683.738



TX30

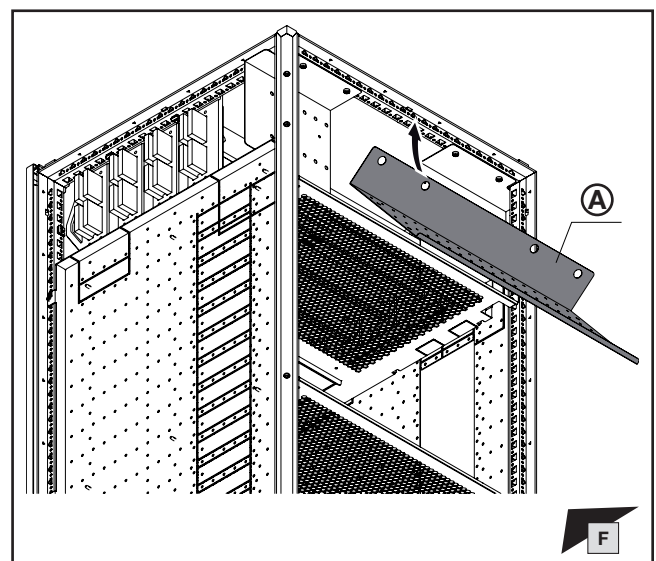
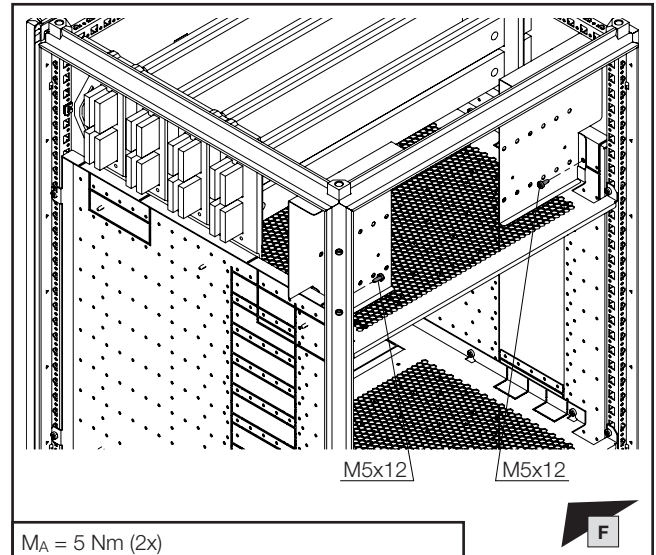
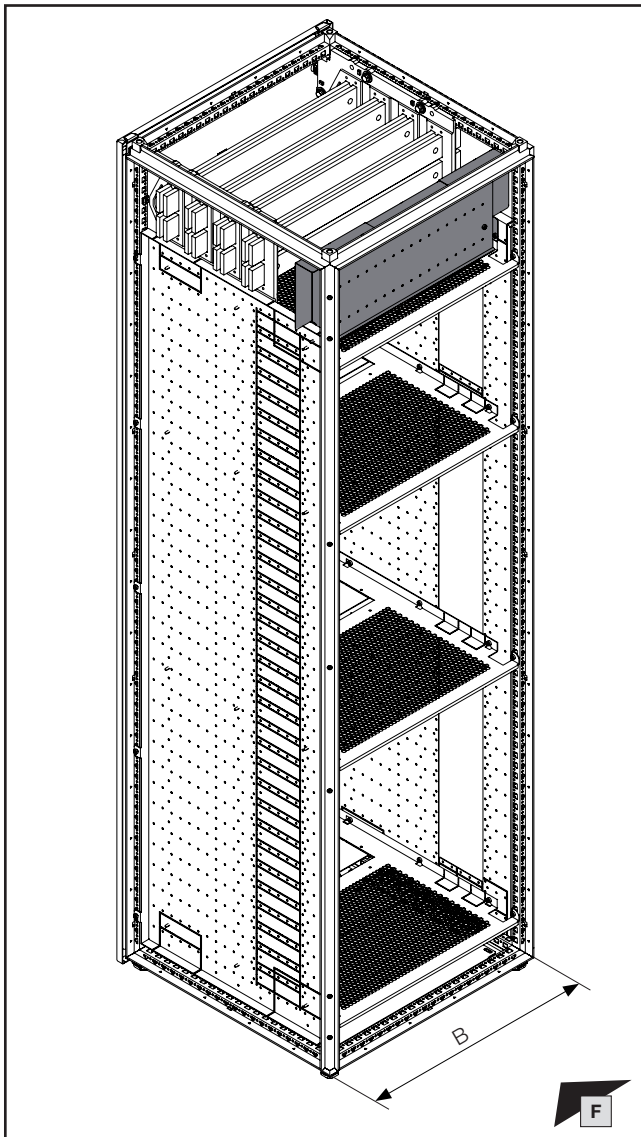


DE EN FR

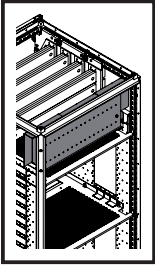
10. Montage Verdrahtungskomponenten 10. Installing the wiring components 10. Montage des composants de câblage



10.3 Montage der Verdrahtungsblende 10.3 Fitting the wiring trim panel 10.3 Montage du cache de câblage



B mm	(A) Best.-Nr. Model No. Référence
600	9683.736
800	9683.736
1000	9683.738
1200	9683.738



TX30

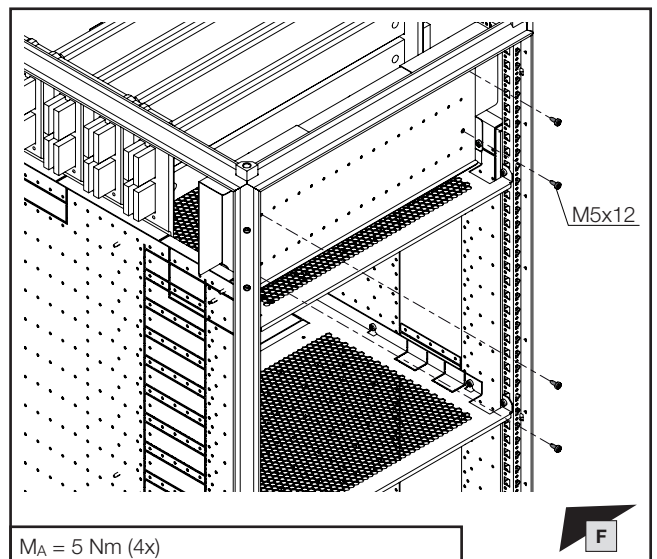
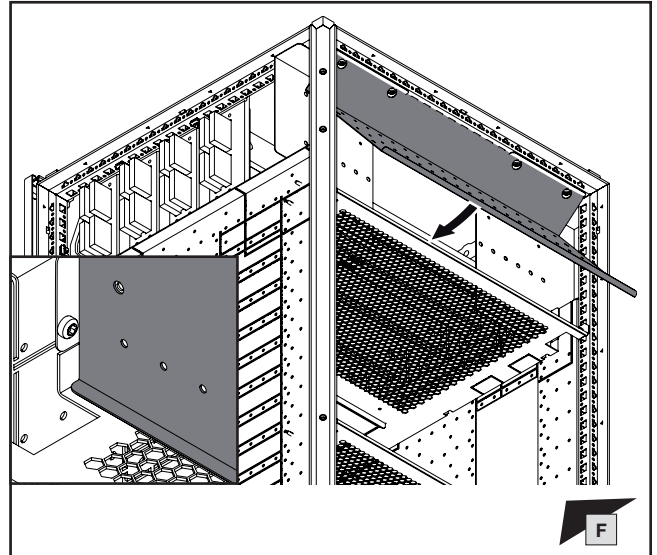
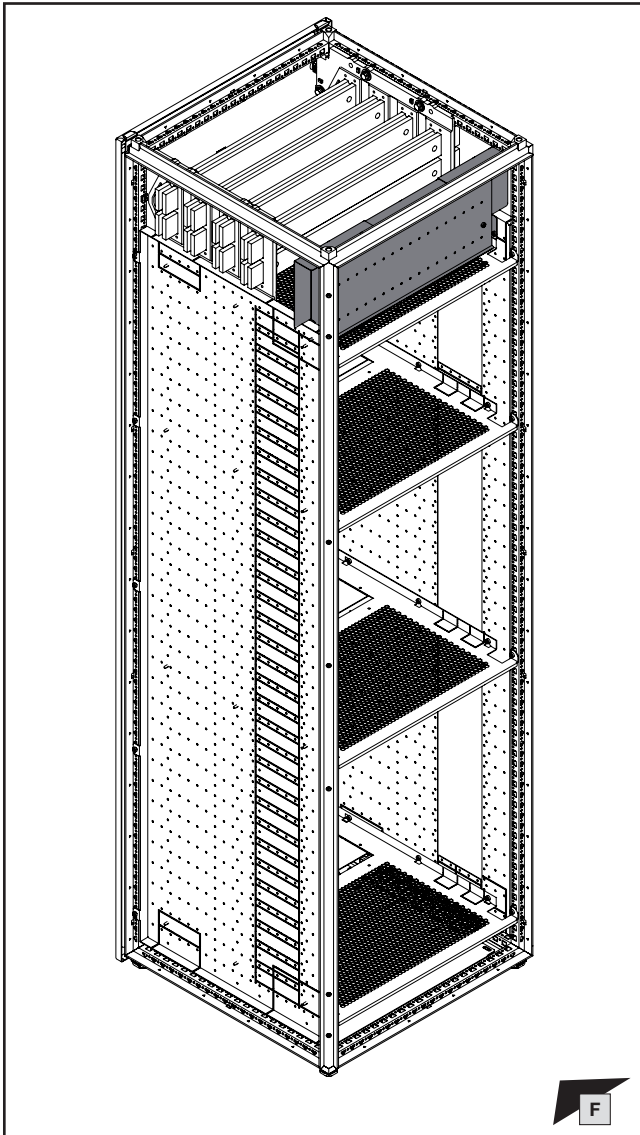


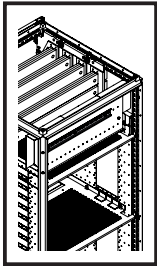
DE EN FR

10. Montage Verdrahtungskomponenten 10. Installing the wiring components 10. Montage des composants de câblage



10.3 Montage der Verdrahtungsblende 10.3 Fitting the wiring trim panel 10.3 Montage du cache de câblage

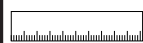




TX30



mm

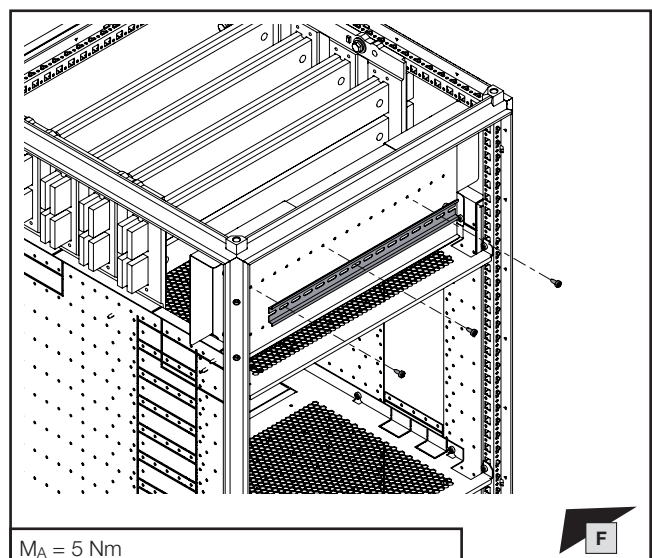
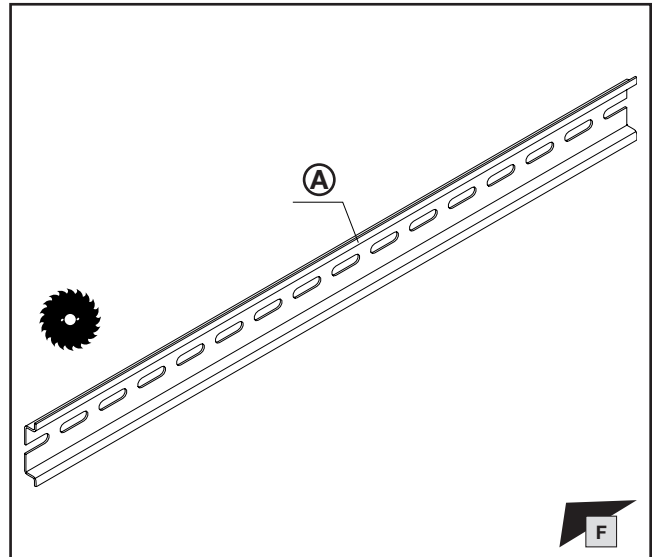
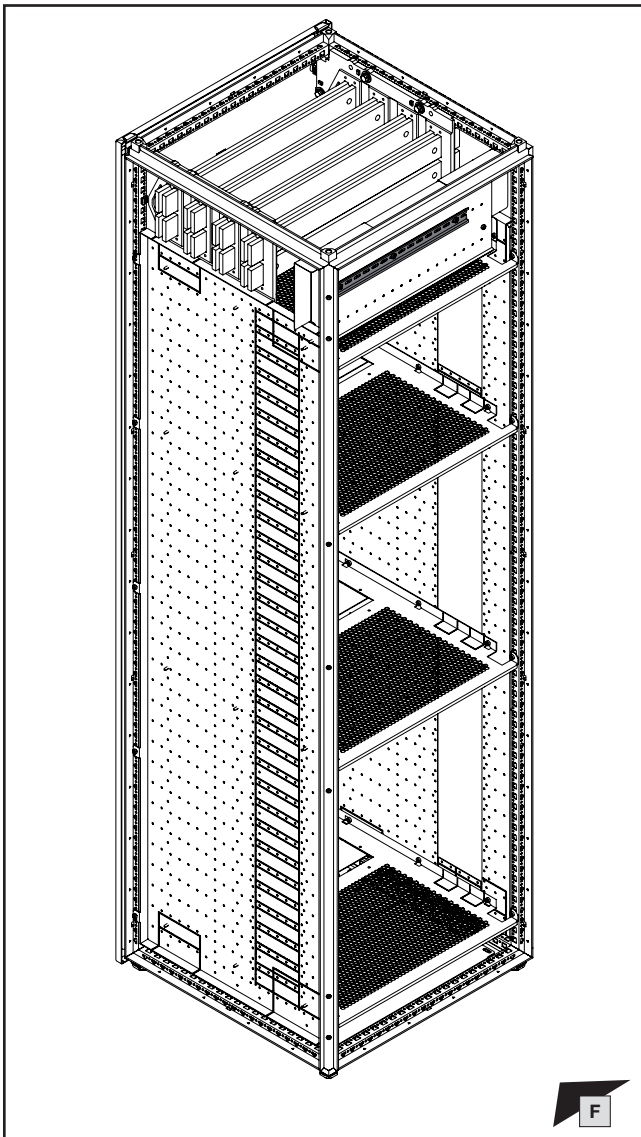


DE EN FR

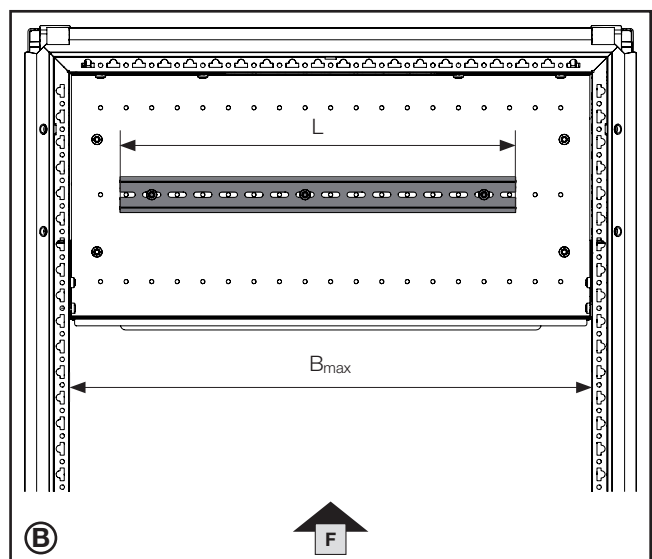
10. Montage Verdrahtungskomponenten 10. Installing the wiring components 10. Montage des composants de câblage



10.4 Montage der Tragprofilschiene 10.4 Fitting the cross rail 10.4 Montage du montant



$M_A = 5 \text{ Nm}$

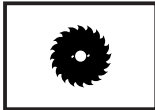
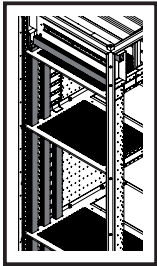


Ausführung Version Modèle	Länge Length Longueur mm	(A) Best.-Nr. Model No. Référence
TS 35/15	2000	2313.150
TS 35/7,5	2000	2313.750



Hinweis / Note / Remarque (B)

Die Länge L ist variabel, maximal Innenmaß Gerüst ($B_{\max}$).
The length L is variable, maximum internal dimension of frame ($B_{\max}$).
La longueur L est variable et peut atteindre au maximum la dimension intérieure de l'ossature ($B_{\max}$).



10. Montage Verdrahtungskomponenten

10. Installing the wiring components

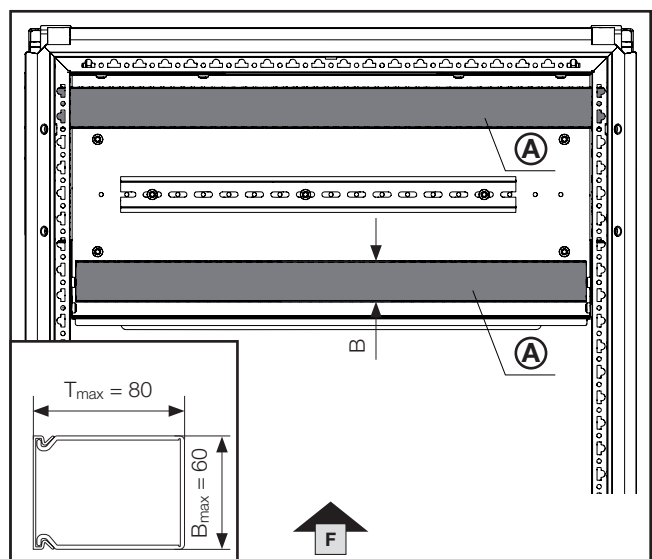
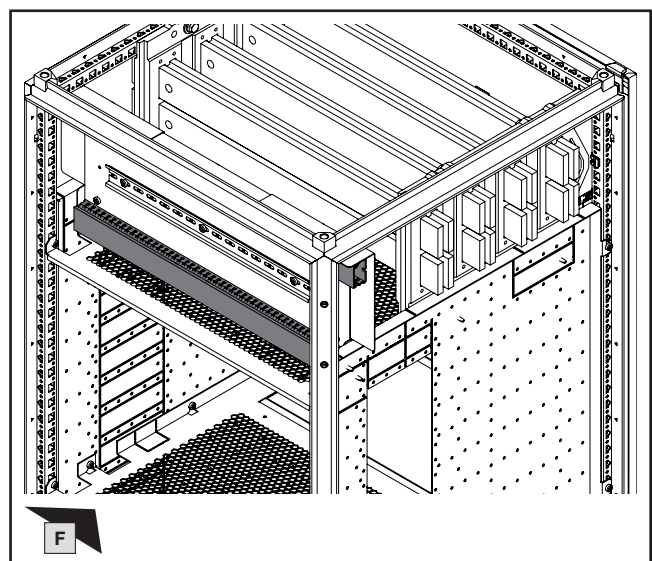
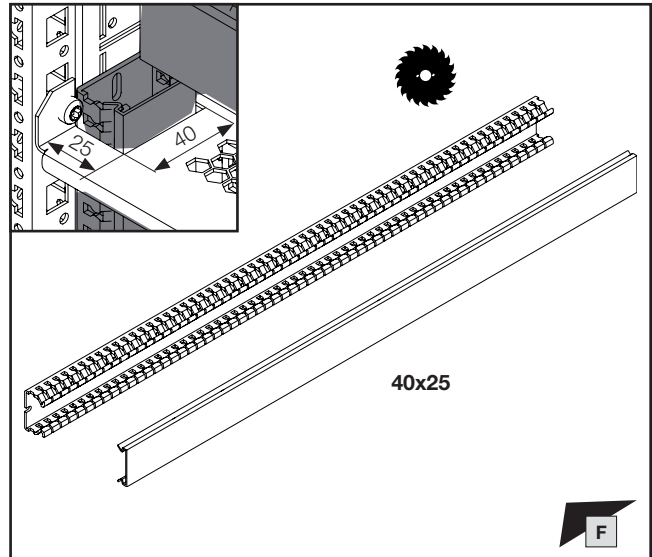
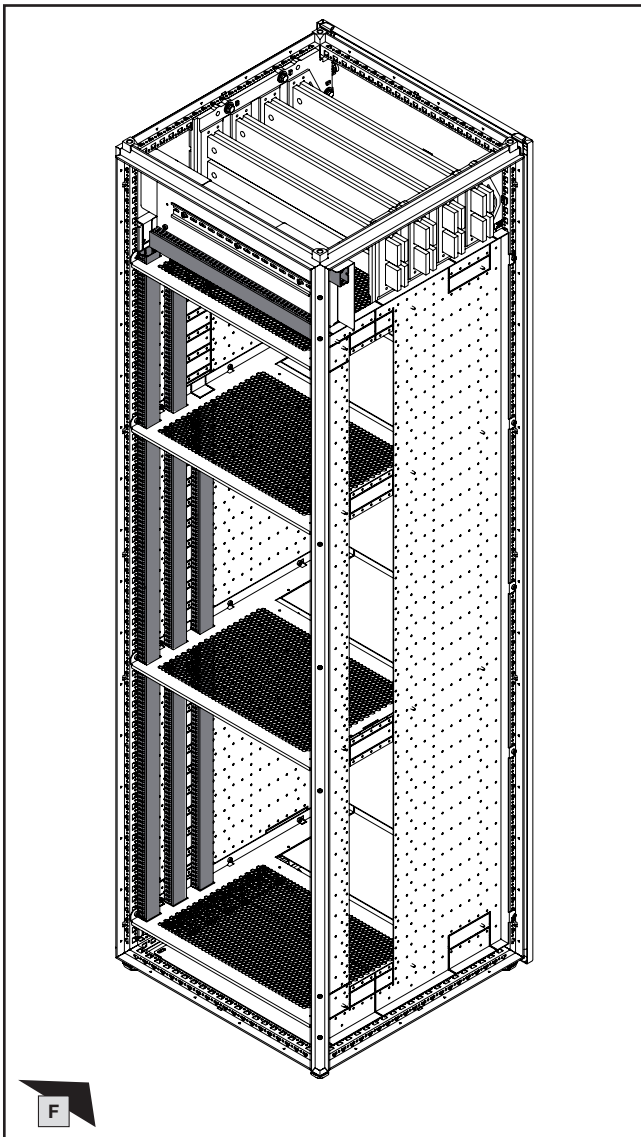
10. Montage des composants de câblage



10.5 Montage eines Kabelkanalsystems – Anwendungsbeispiel

10.5 Installing a cable trunking system – Application example

10.5 Montage d'une goulotte de câbles – exemple d'application

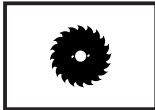
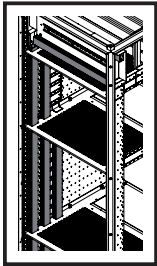


B mm	T mm	Ⓐ Best.-Nr. Model No. Référence
30	80	8800.750
40	80	8800.751
60	80	8800.752



Hinweis / Note / Remarque
siehe Kapitel 10.2
see chapter 10.2
voir chapitre 10.2

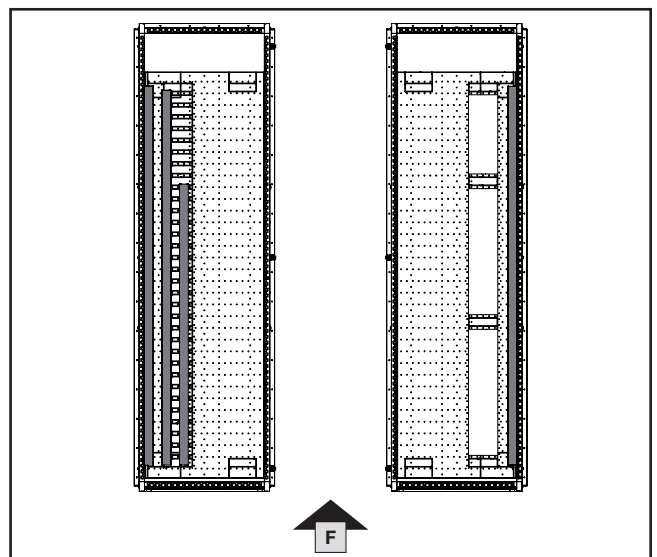
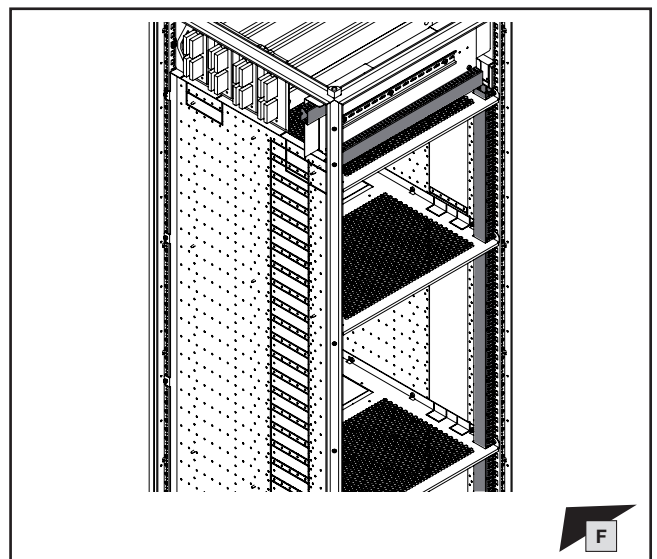
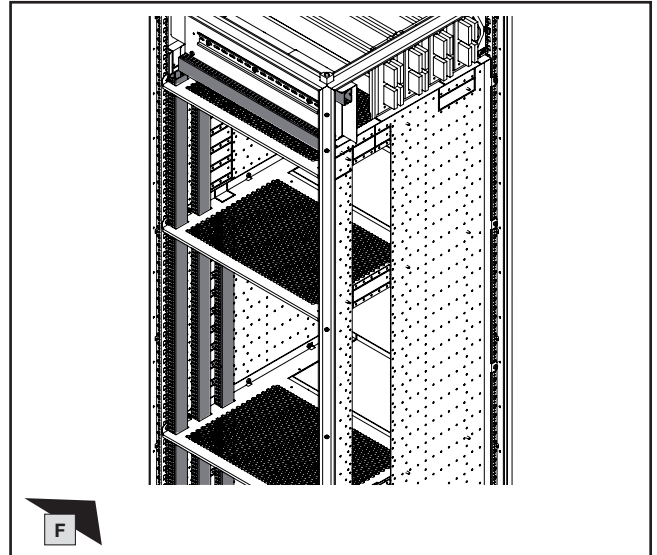
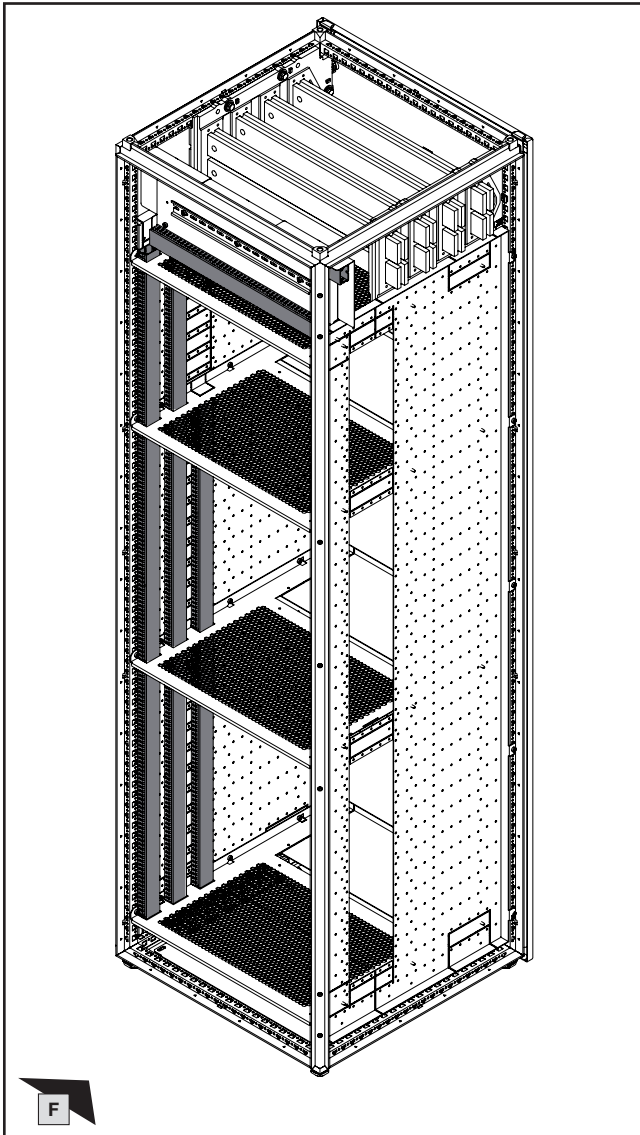


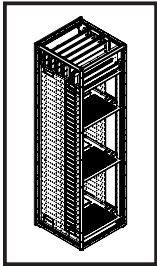


10. Montage Verdrahtungskomponenten 10. Installing the wiring components 10. Montage des composants de câblage



10.5 Montage eines Kabelkanalsystems – Anwendungsbeispiel
10.5 Installing a cable trunking system – Application example
10.5 Montage d'une goulotte de câbles – exemple d'applica-
tion





10. Montage Verdrahtungskomponenten

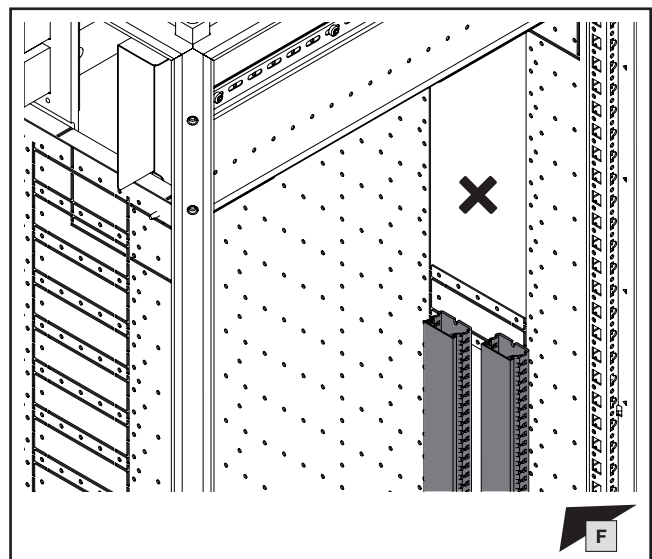
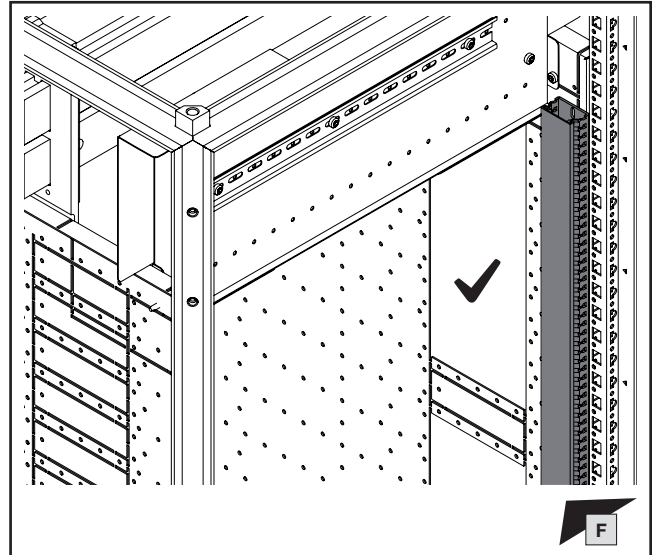
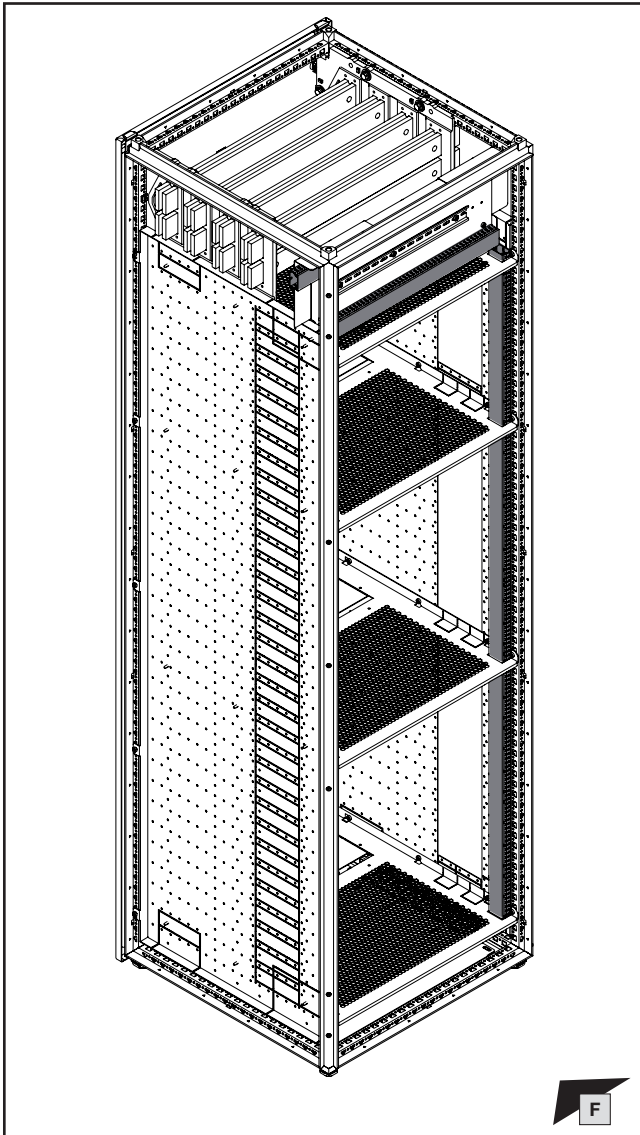
10. Installing the wiring components

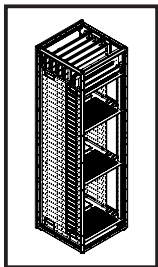
10. Montage des composants de câblage

10.6 Zusatzinformationen Montage

10.6 Additional information regarding installation

10.6 Informations complémentaires pour le montage



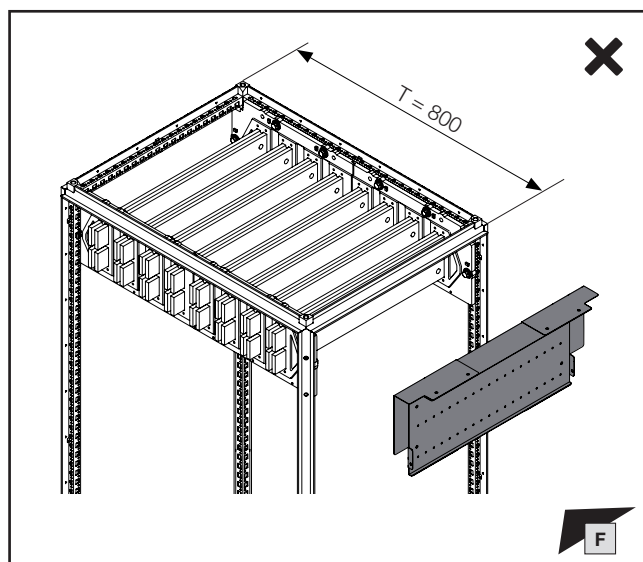
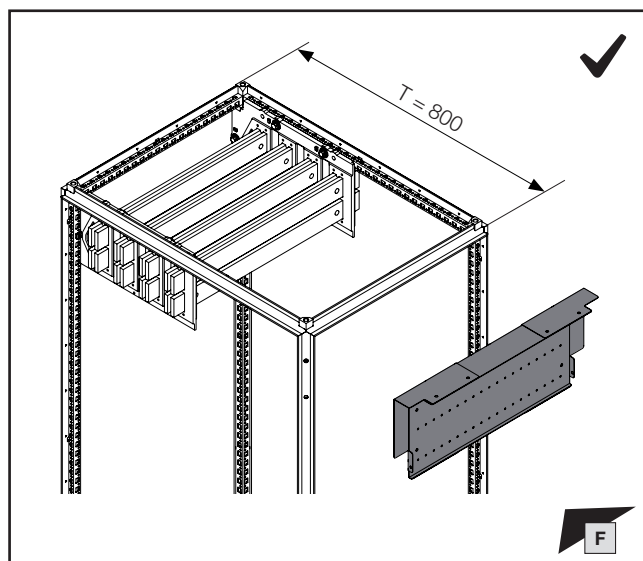
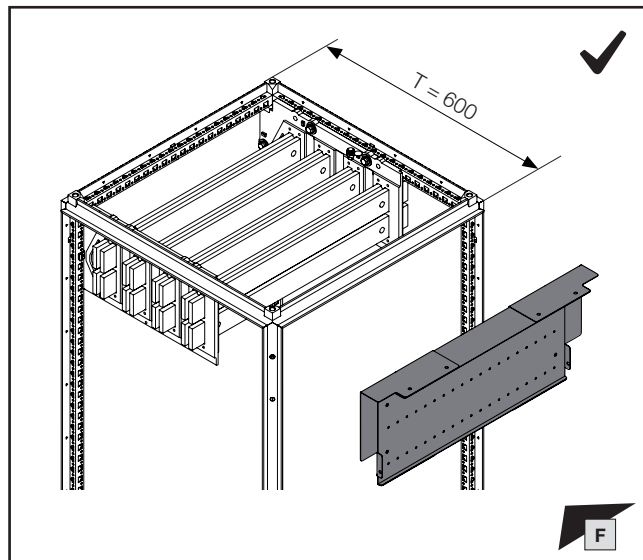
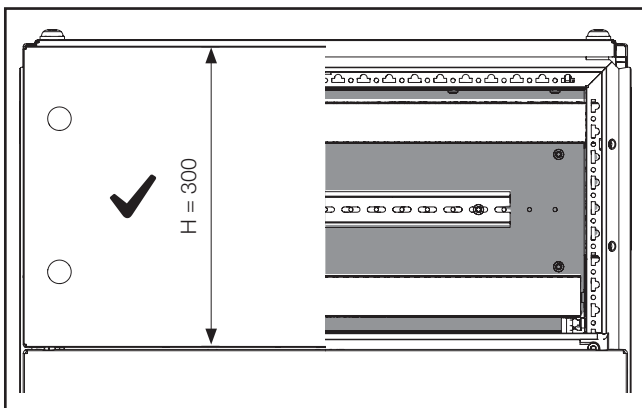
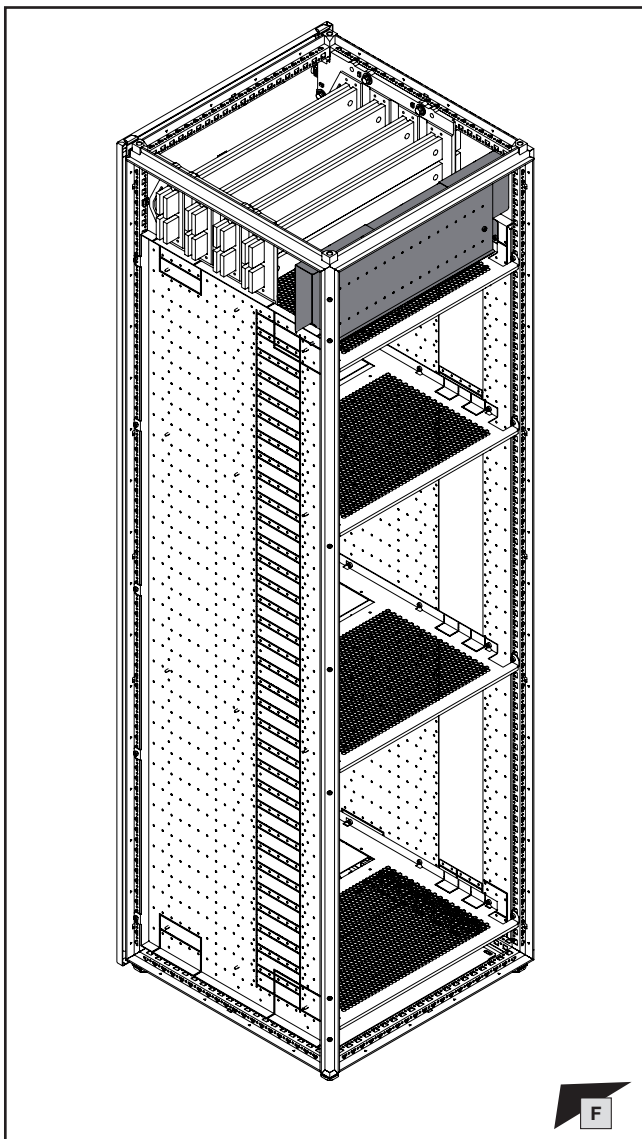


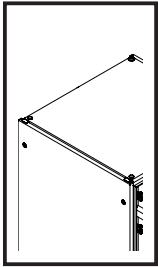
10. Montage Verdrahtungskomponenten

10. Installing the wiring components

10. Montage des composants de câblage

10.6 Zusatzinformationen Montage
10.6 Additional information regarding installation
10.6 Informations complémentaires pour le montage





IS8



DE EN FR

11. Schutzeigenschaft Störlichtbogenklasse A

11. Protection property Arcing class A

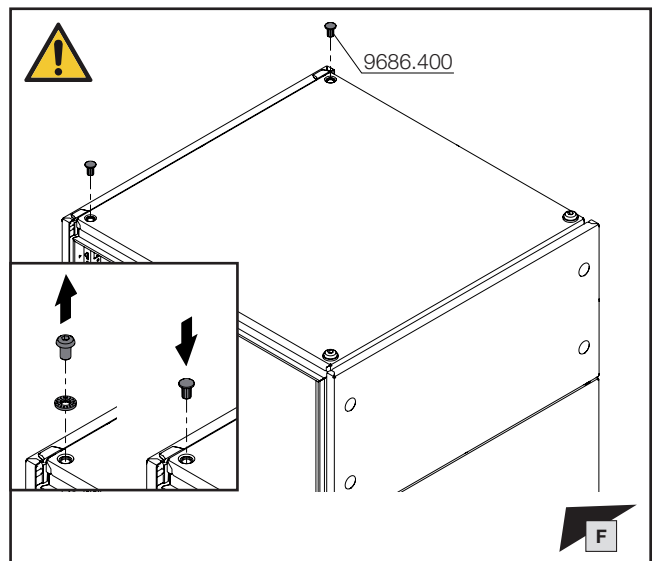
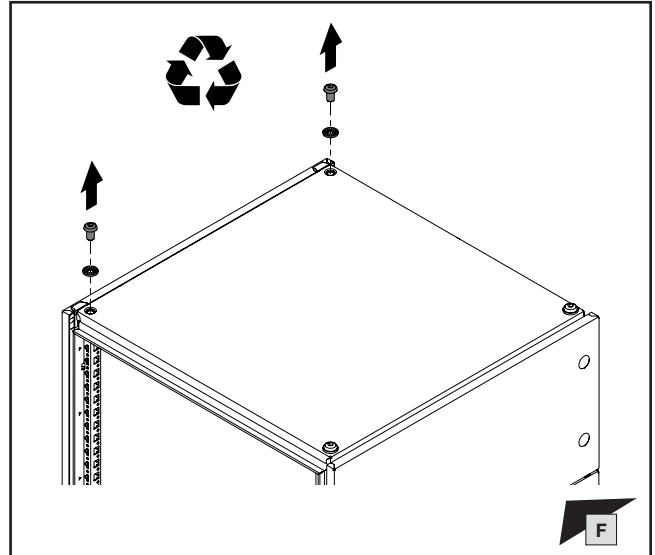
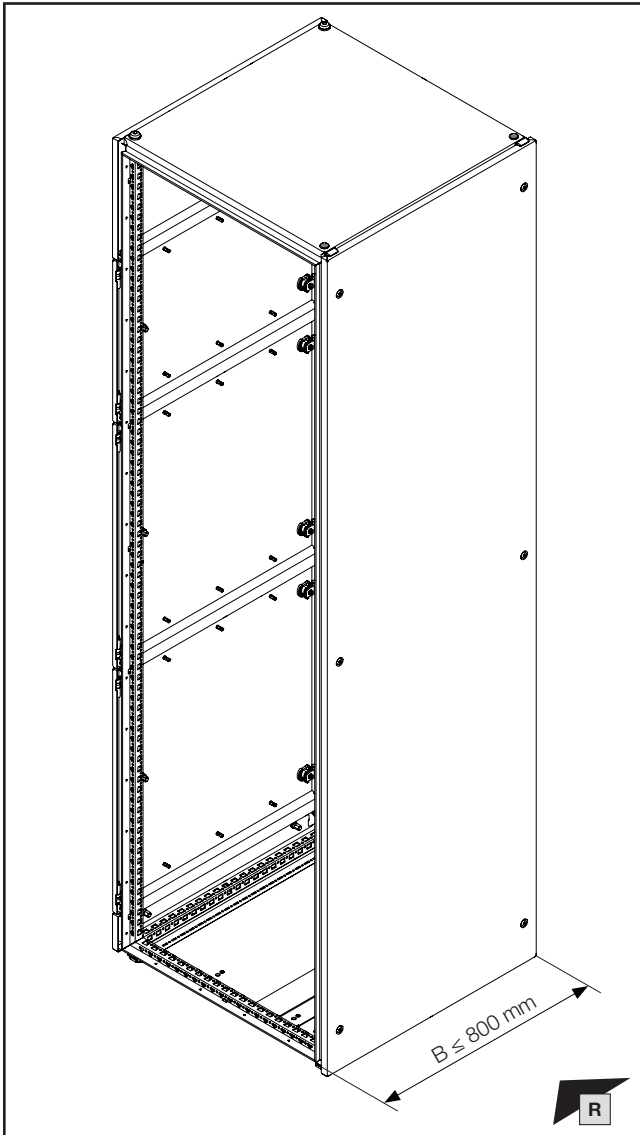
11. Propriété de protection arc électrique de catégorie A



11.1 Dachblech – Druckstopfen

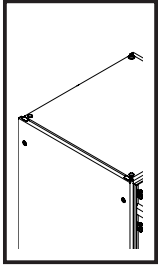
11.1 Roof plate stoppers

11.1 Toit – bouchons de décompression



Hinweis / Note / Remarque

Stopfen nur im Rückbereich der Anlage verwenden!
Only use stoppers in the rear area of the system!
Utiliser les bouchons uniquement à l'arrière de l'installation !



IS8



TX30



DE EN FR

11. Schutz Eigenschaft Störlichtbogenklasse A

11. Protection property Arcing class A

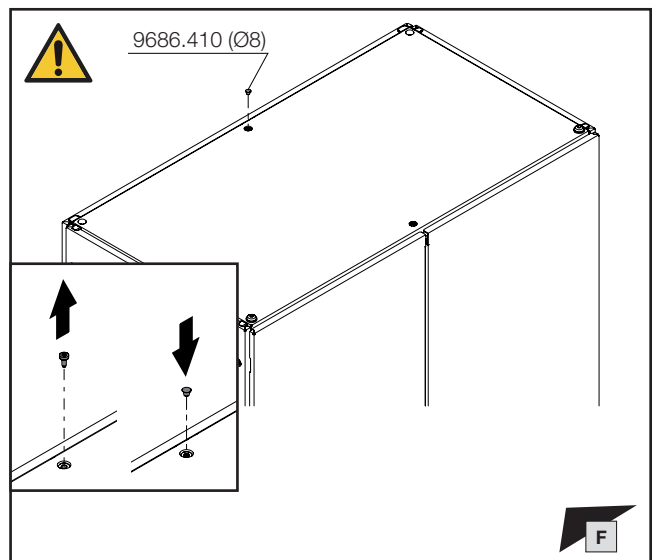
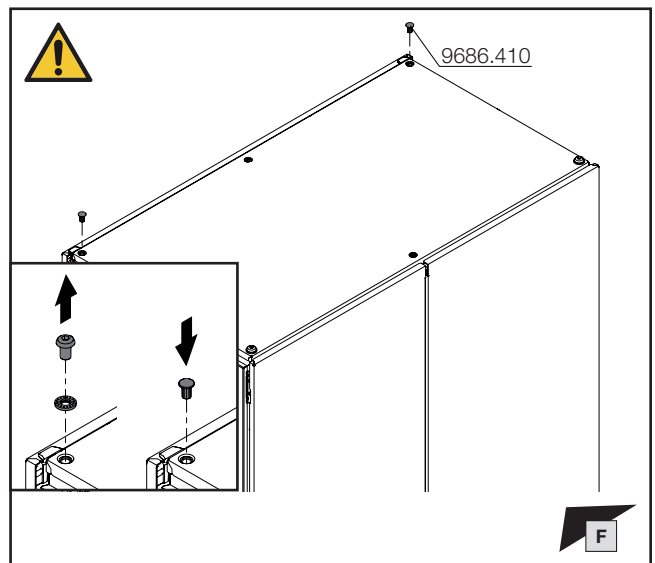
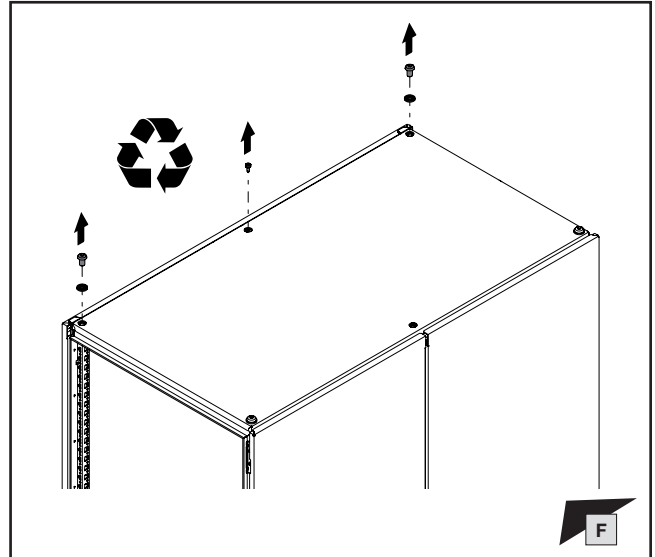
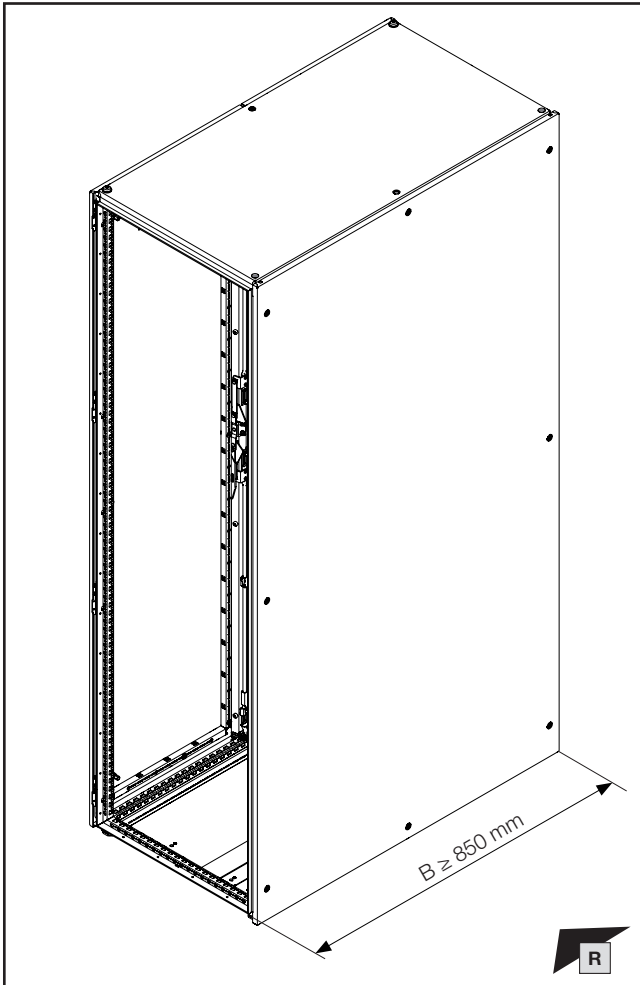
11. Propriété de protection arc électrique de catégorie A

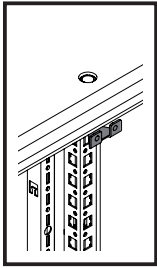


11.1 Dachblech – Druckstopfen

11.1 Roof plate stoppers

11.1 Toit – bouchons de décompression





TX30



DE EN FR

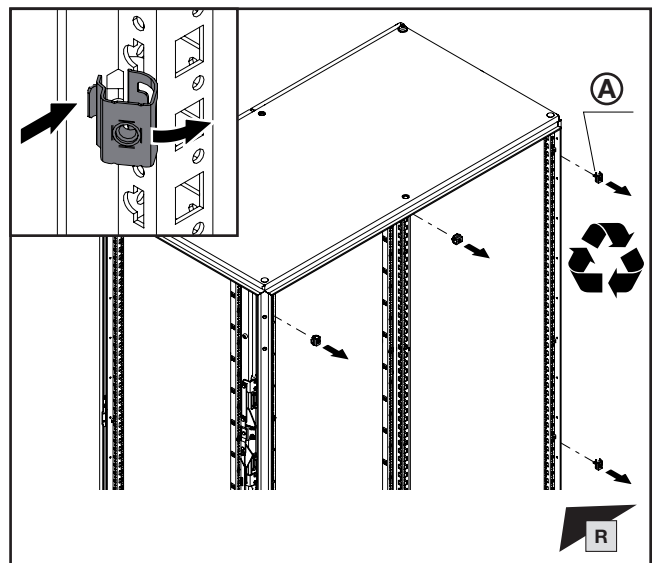
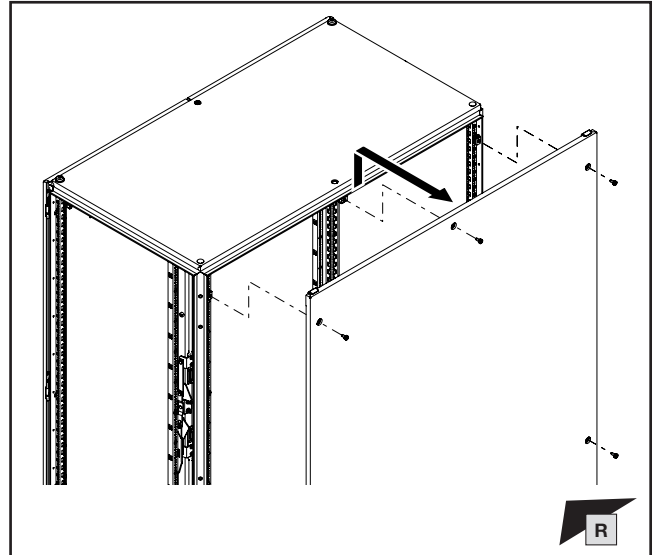
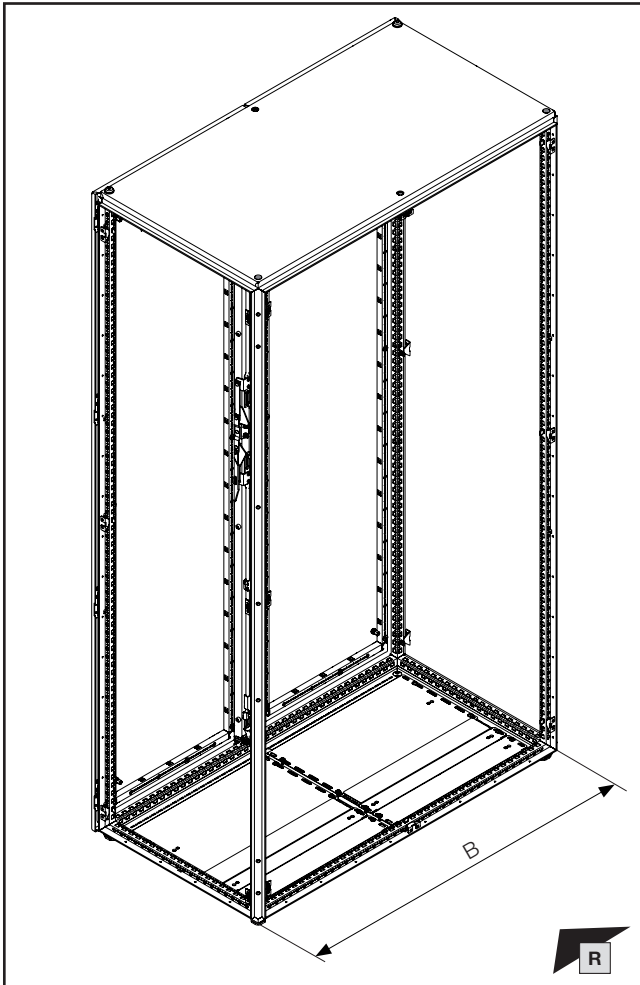
11. Schutzeigenschaft Störlichtbogenklasse A

11. Protection property Arcing class A

11. Propriété de protection arc électrique de catégorie A



- 11.2 Austausch der Flachteilehalter im Bereich Rückwand
 11.2 Exchange of panel holders in the rear panel area
 11.2 Remplacement des supports de pièces plates au niveau du panneau arrière



Schrankbreite Enclosure width Largeur d'armoire B mm	(A) Anzahl Quantity Quantité
≤ 800	6
≥ 850	8

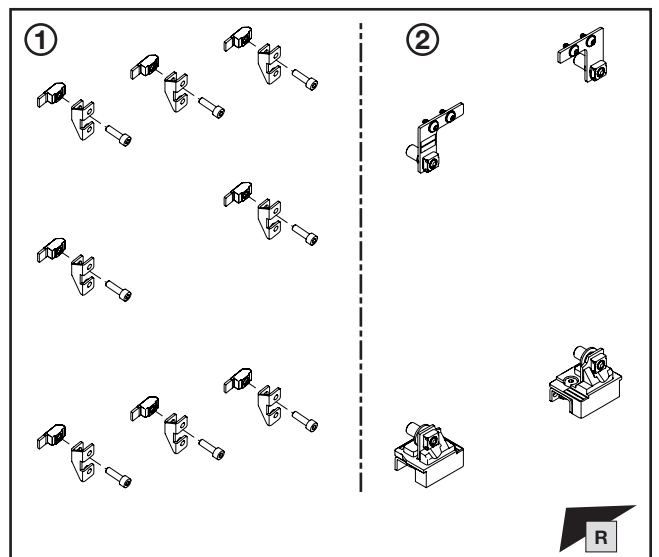


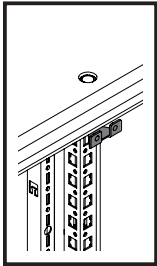
Hinweis / Note / Remarque

Einbaureihenfolge Schritte ① und ② beachten!

Observe installation sequence steps ① and ②!

Attention à l'ordre de montage de l'étape ① et ②!



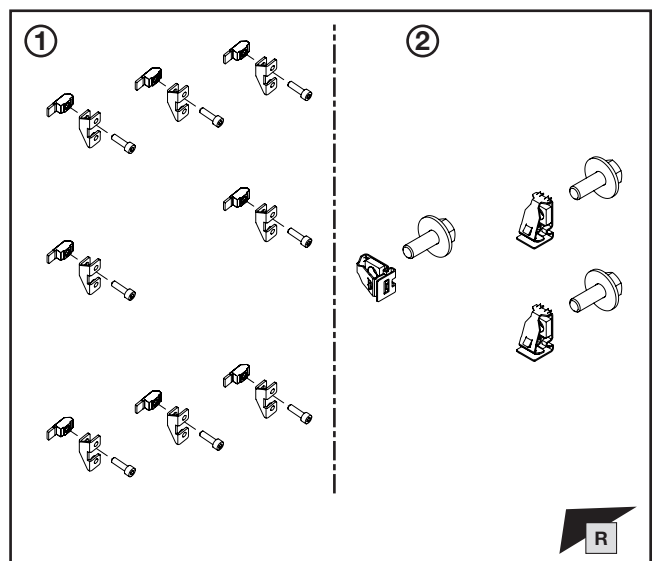
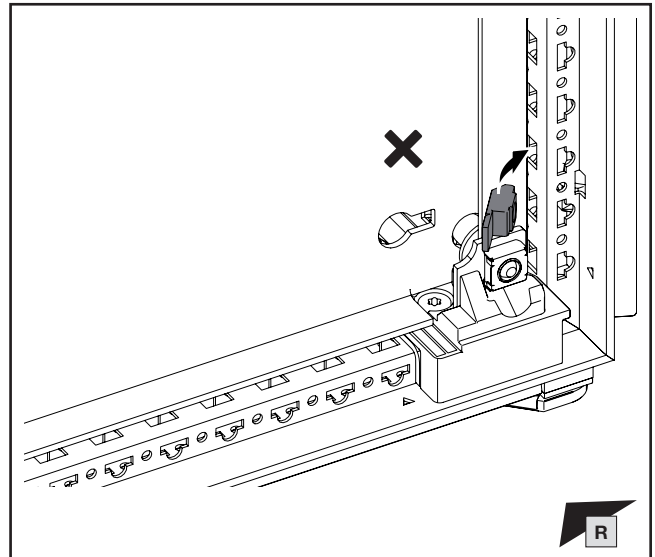
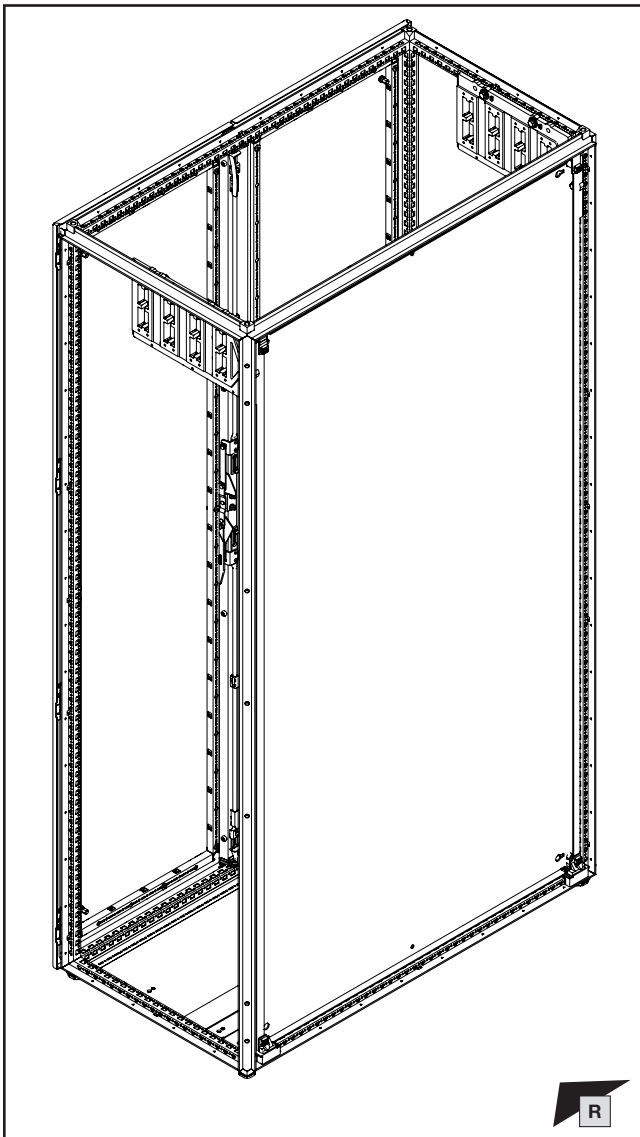


11. Schutzeigenschaft Störlichtbogenklasse A

11. Protection property Arcing class A

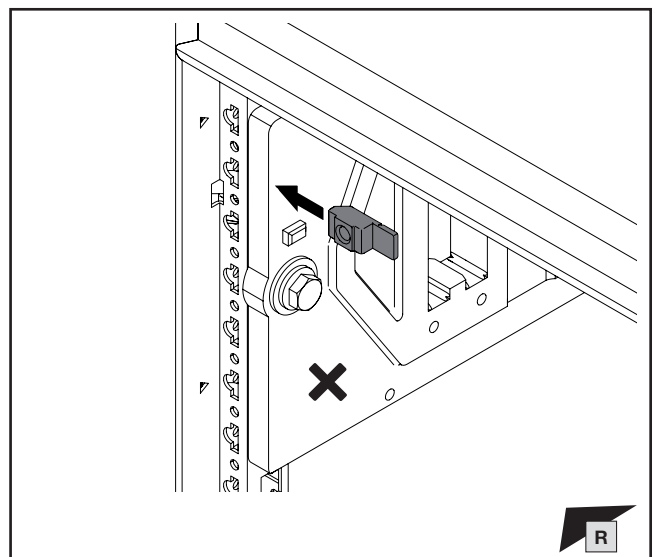
11. Propriété de protection arc électrique de catégorie A

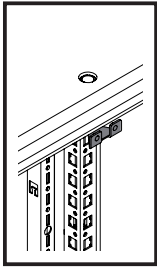
- 11.2 Austausch der Flachteilehalter im Bereich Rückwand
 11.2 Exchange of panel holders in the rear panel area
 11.2 Remplacement des supports de pièces plates au niveau du panneau arrière



Hinweis / Note / Remarque

Einbaureihenfolge Schritte ① und ② beachten!
 Observe installation sequence steps ① and ②!
 Attention à l'ordre de montage de l'étape ① et ②!





TX30



DE EN FR

11. Schutz Eigenschaft Störlichtbogenklasse A

11. Protection property Arcing class A

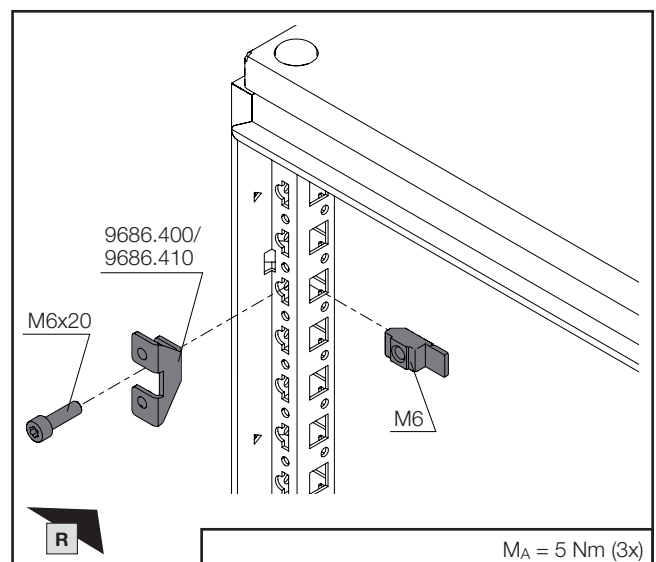
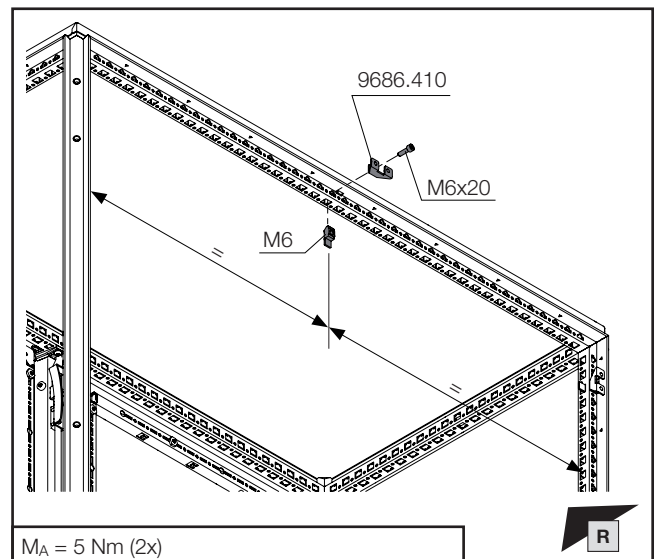
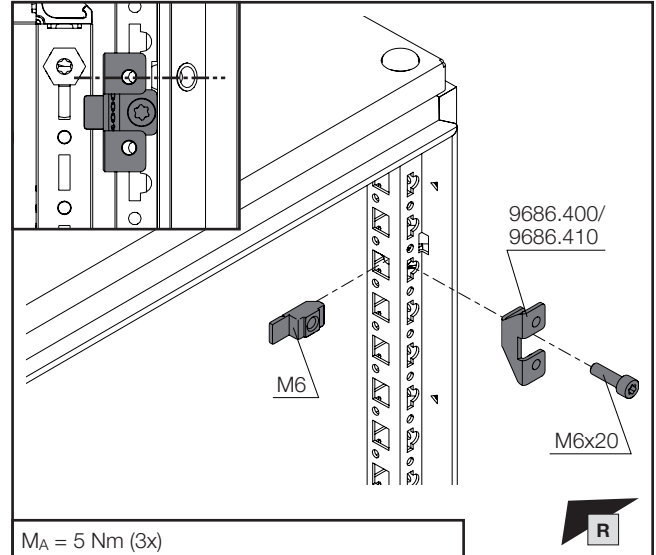
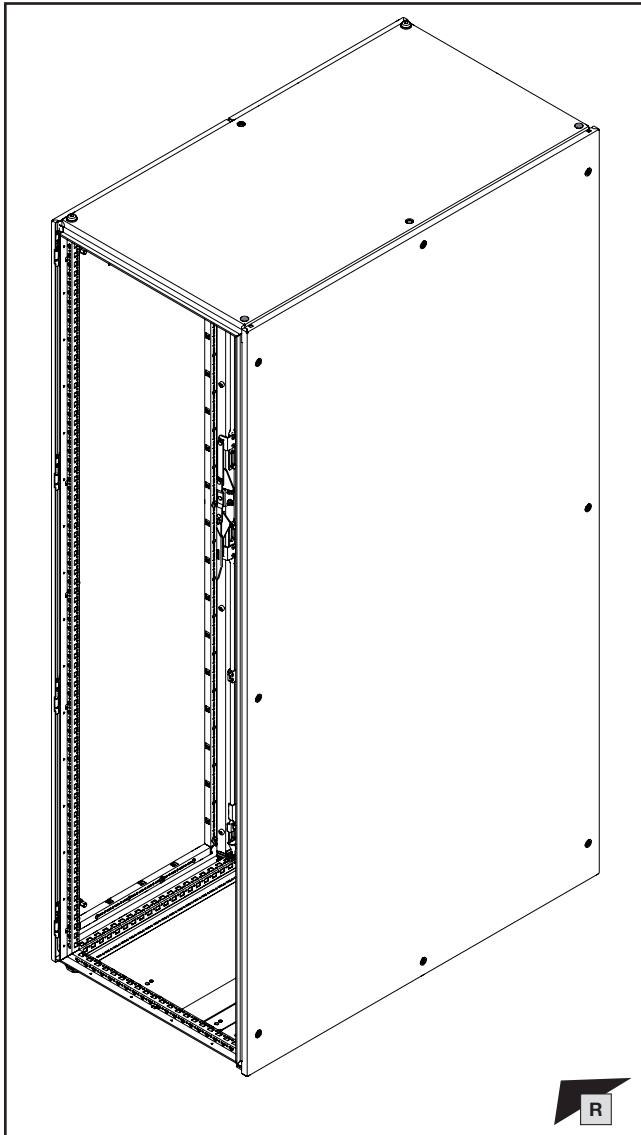
11. Propriété de protection arc électrique de catégorie A

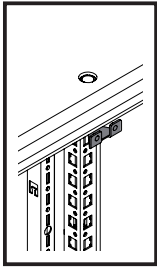


11.2 Austausch der Flachteilehalter im Bereich Rückwand

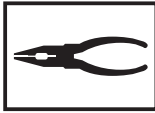
11.2 Exchange of panel holders in the rear panel area

11.2 Remplacement des supports de pièces plates au niveau du panneau arrière





TX30



DE EN FR

11. Schutzeigenschaft Störlichtbogenklasse A

11. Protection property Arcing class A

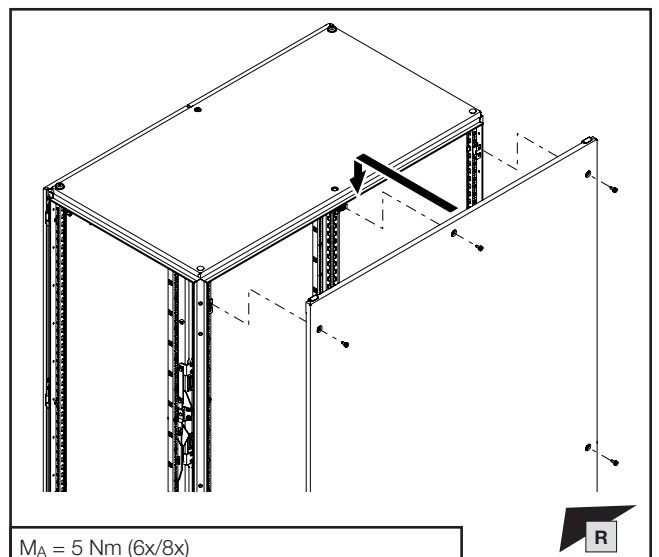
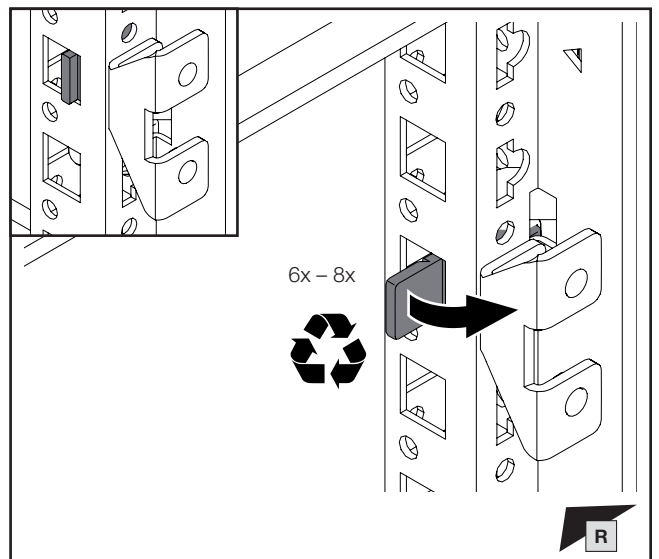
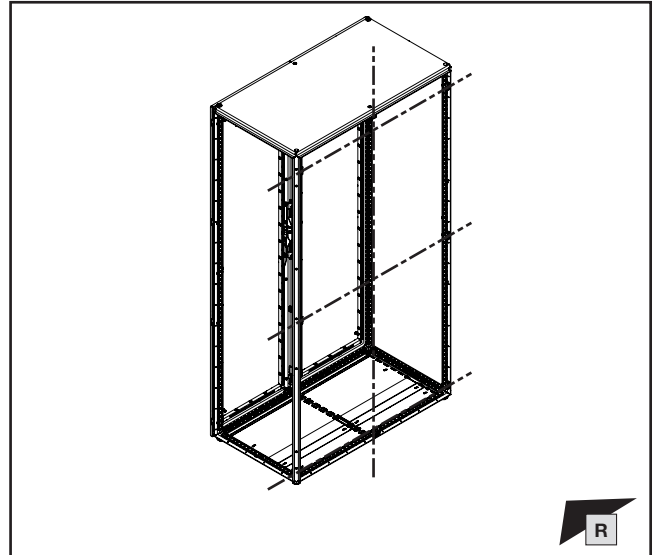
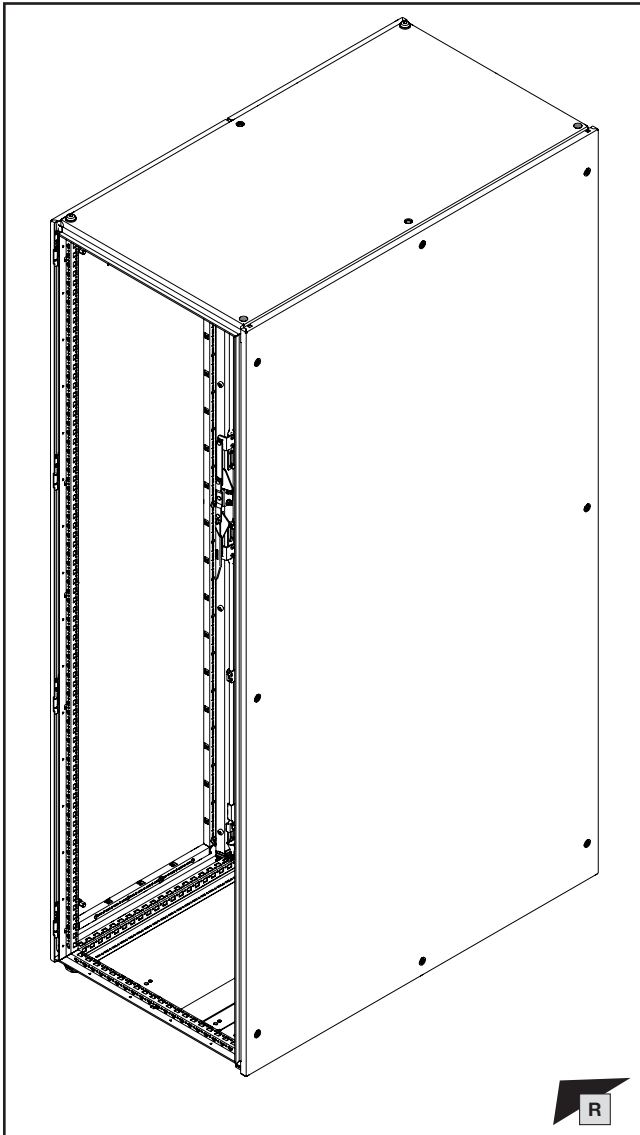
11. Propriété de protection arc électrique de catégorie A



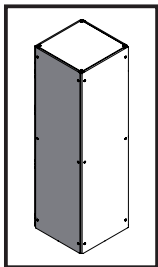
11.2 Austausch der Flachteilehalter im Bereich Rückwand

11.2 Exchange of panel holders in the rear panel area

11.2 Remplacement des supports de pièces plates au niveau du panneau arrière

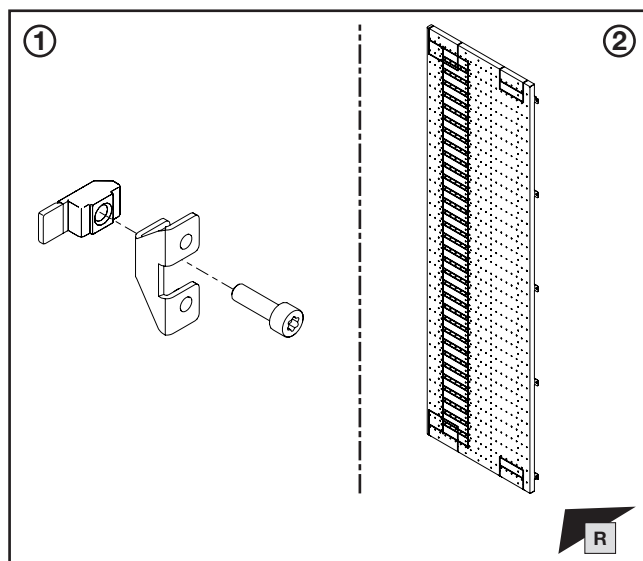
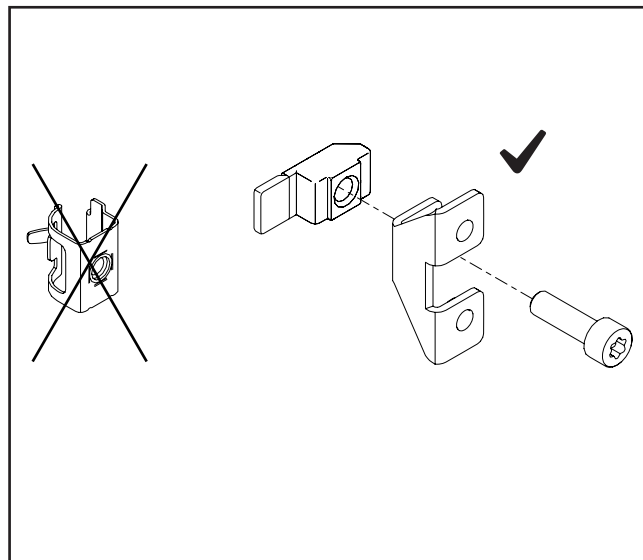
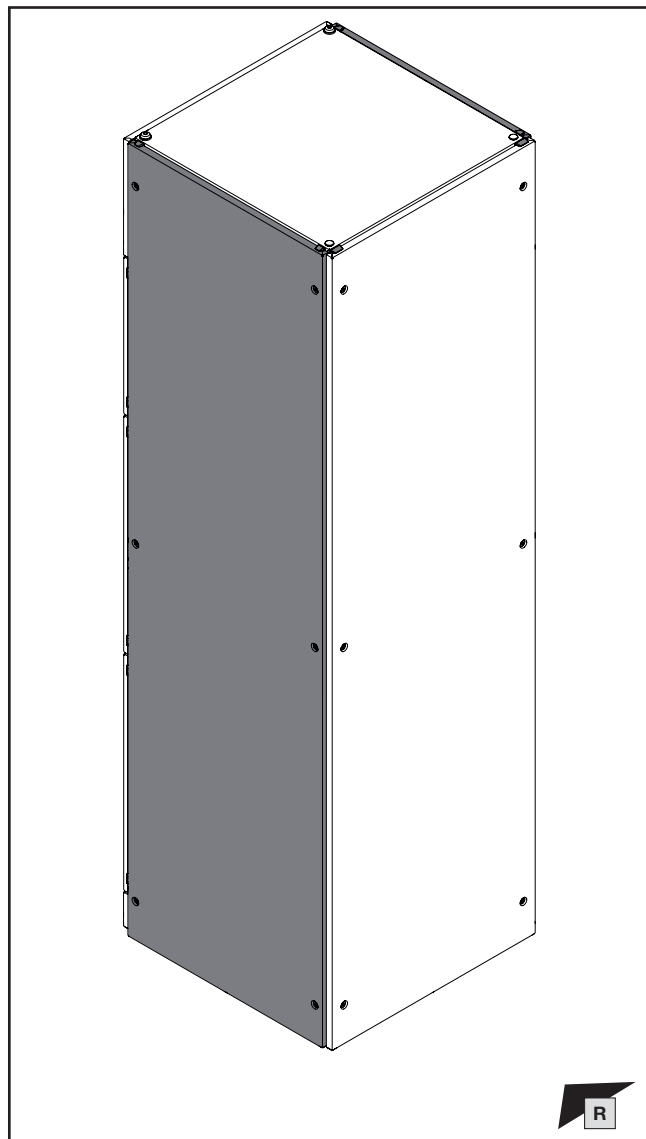


$M_A = 5 \text{ Nm (6x/8x)}$



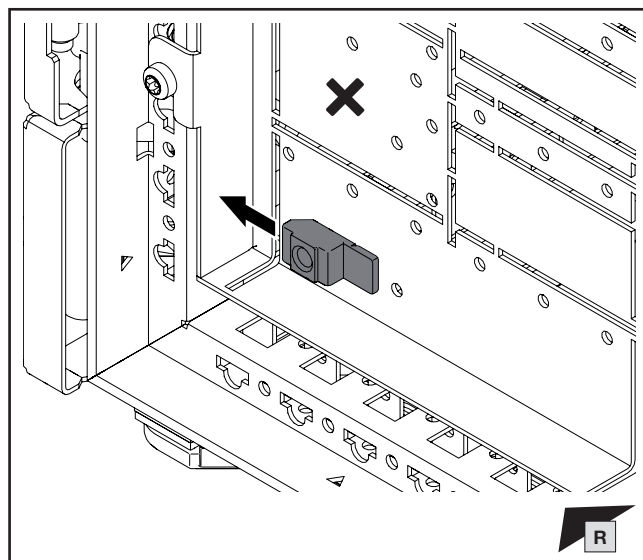
11. Schutzeigenschaft Störlichtbogenklasse A 11. Protection property Arcing class A 11. Propriété de protection arc électrique de catégorie A

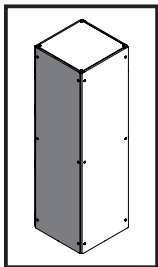
11.3 Einbau Seitenwände VX 11.3 Installation of VX side panels 11.3 Montage des panneaux latéraux VX



Hinweis / Note / Remarque

Einbaureihenfolge Schritte ① und ② beachten!
 Observe installation sequence steps ① and ②!
 Attention à l'ordre de montage de l'étape ① et ②!





TX30



DE EN FR

11. Schutz Eigenschaft Störlichtbogenklasse A

11. Protection property Arcing class A

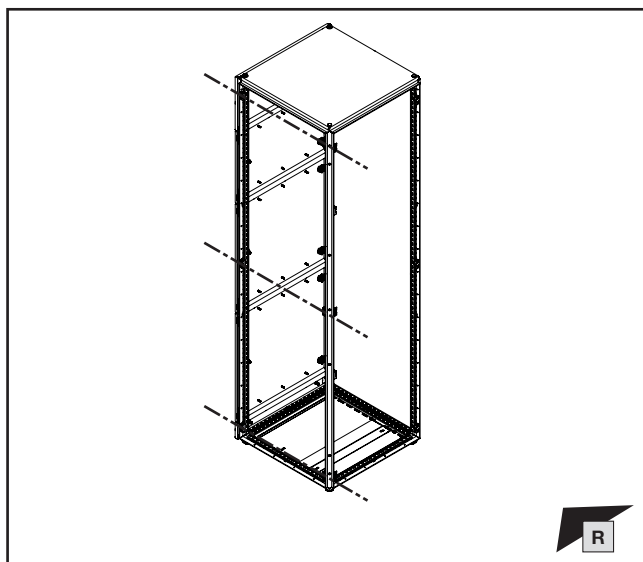
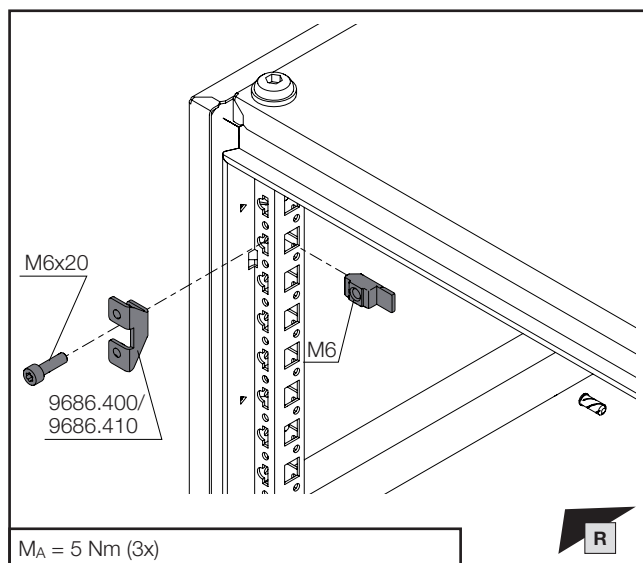
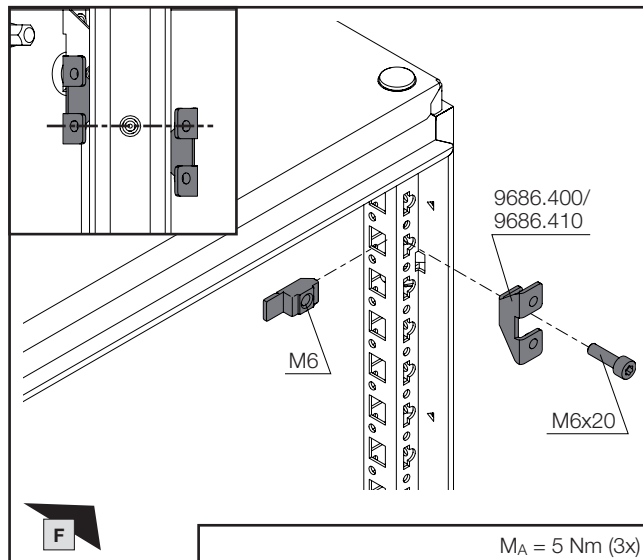
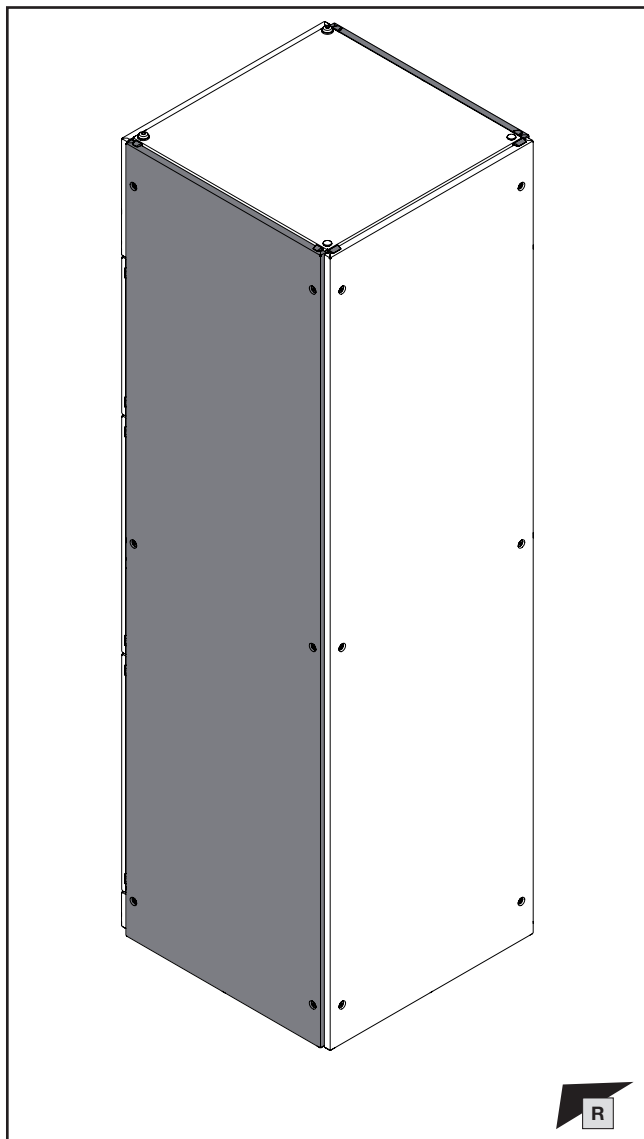
11. Propriété de protection arc électrique de catégorie A

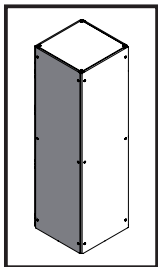


11.3 Einbau Seitenwände VX

11.3 Installation of VX side panels

11.3 Montage des panneaux latéraux VX





TX30



DE EN FR

11. Schutzeigenschaft Störlichtbogenklasse A

11. Protection property Arcing class A

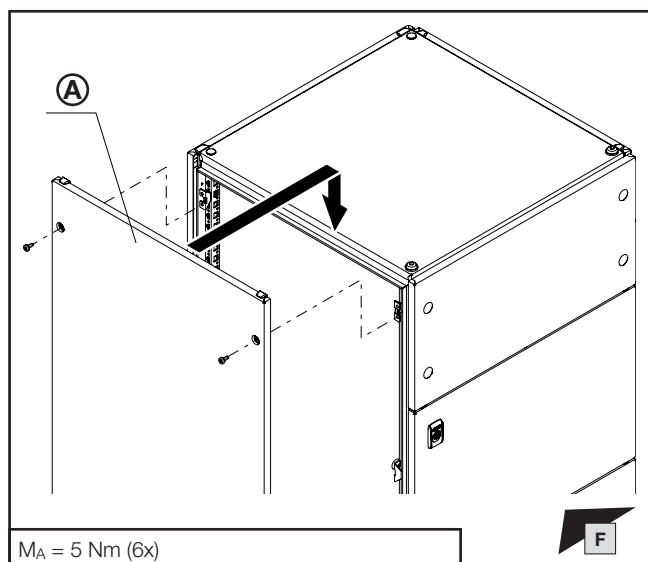
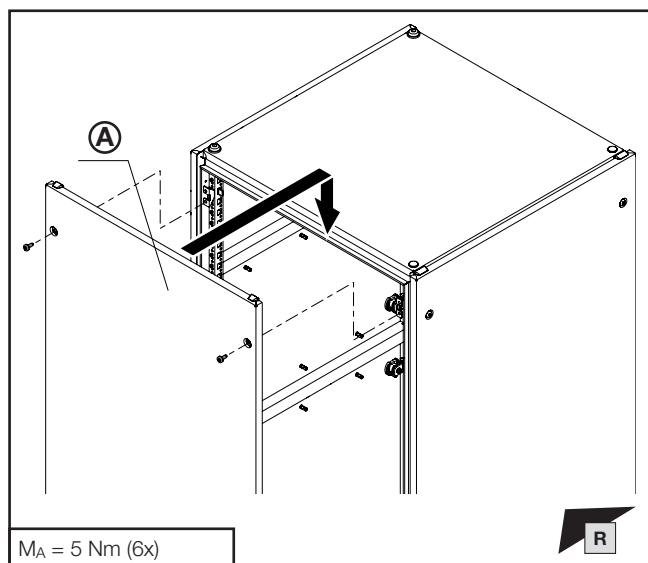
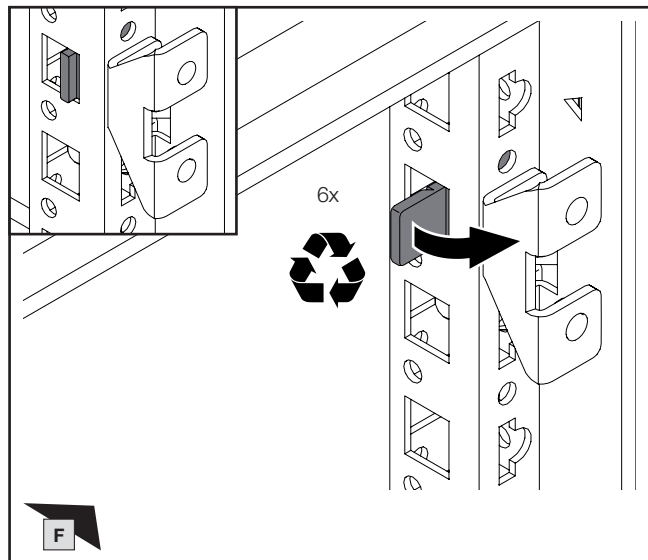
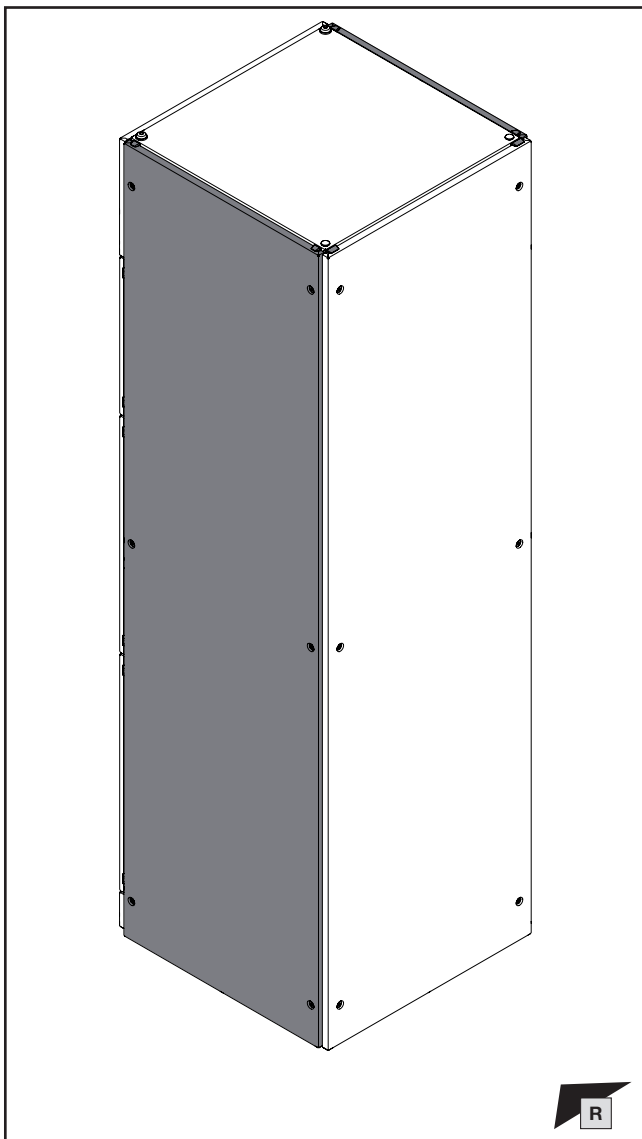
11. Propriété de protection arc électrique de catégorie A



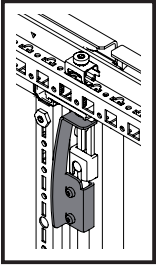
11.3 Einbau Seitenwände VX

11.3 Installation of VX side panels

11.3 Montage des panneaux latéraux VX



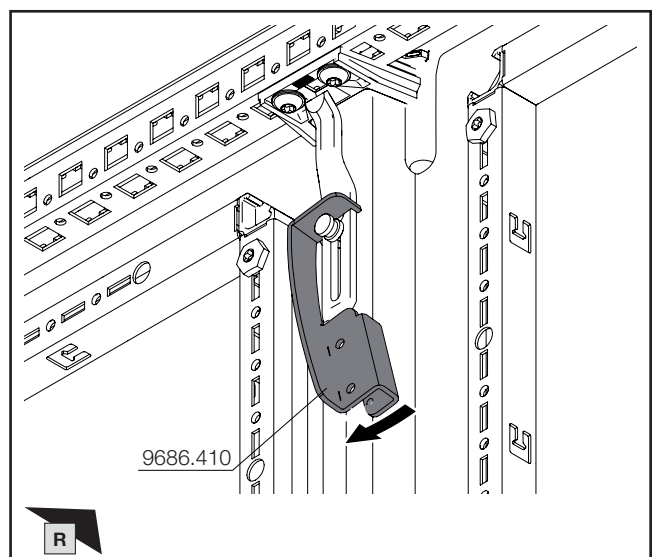
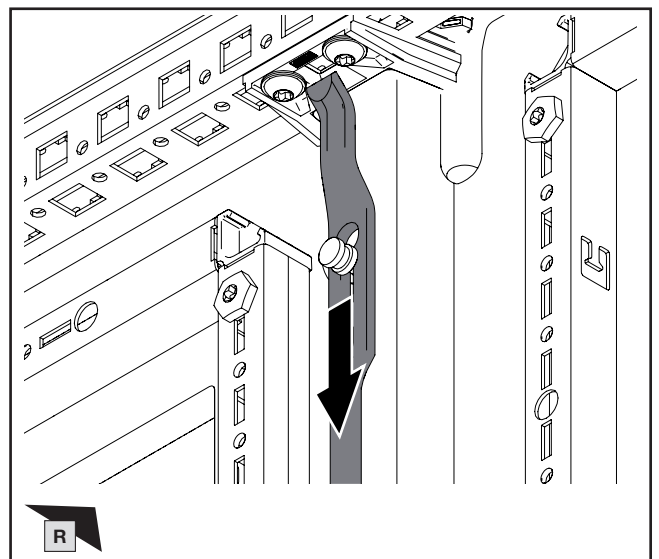
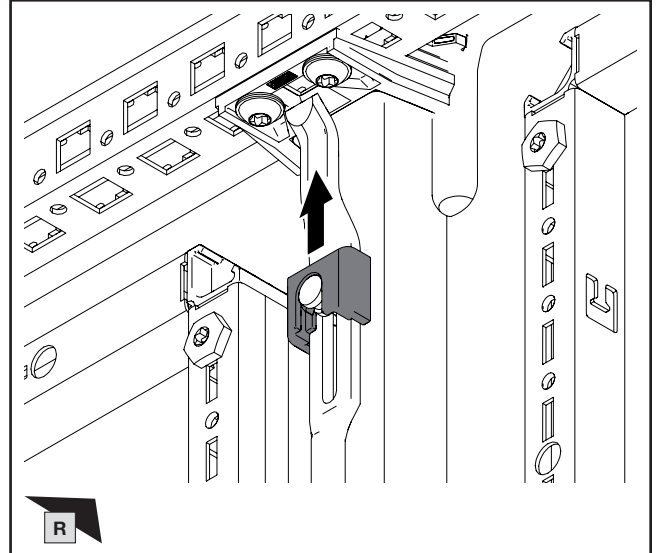
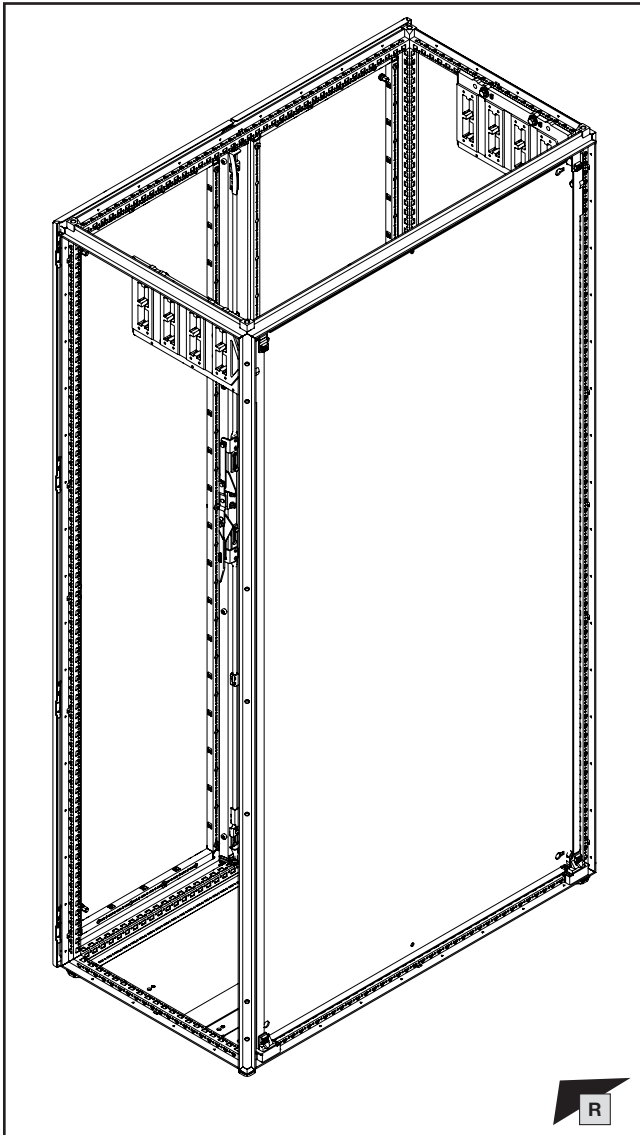
Schrankhöhe Enclosure height Hauteur d'armoire H mm	Schrankbreite Enclosure width Largeur d'armoire B mm	Ⓐ Best.-Nr. Model No. Référence
2000	600	8106.245
2000	800	8108.245
2200	600	8126.245
2200	800	8128.245

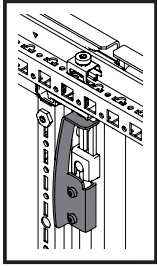


11. Schutzeigenschaft Störlichtbogenklasse A
11. Protection property Arcing class A
11. Propriété de protection arc électrique de catégorie A



11.4 Verstärkung Verschlussstange Doppeltür
11.4 Reinforcement of double door locking bar
11.4 Renfort de la tringlerie des portes doubles





TX20



DE EN FR

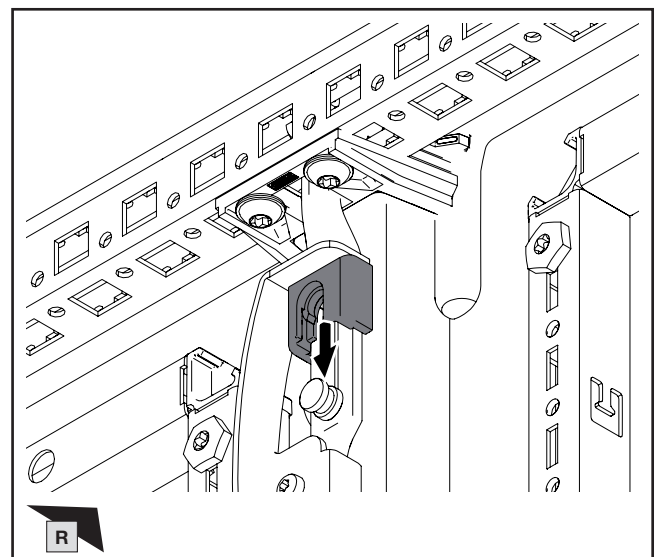
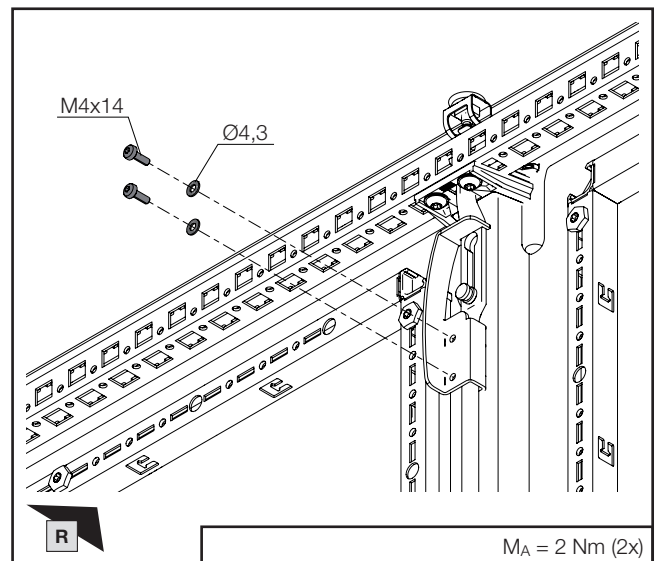
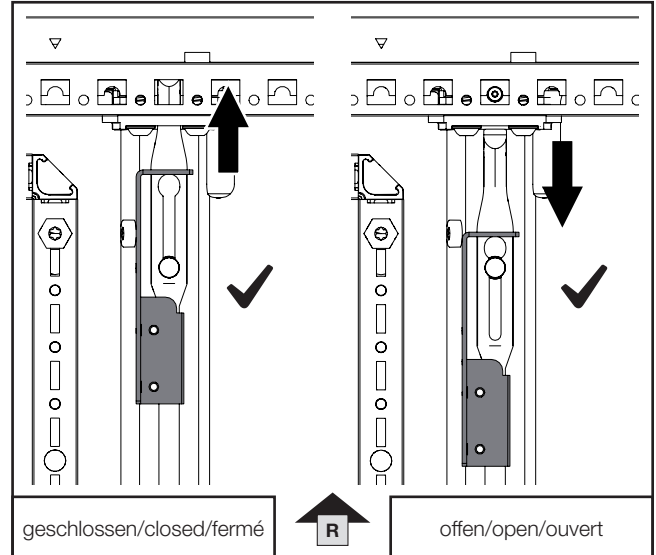
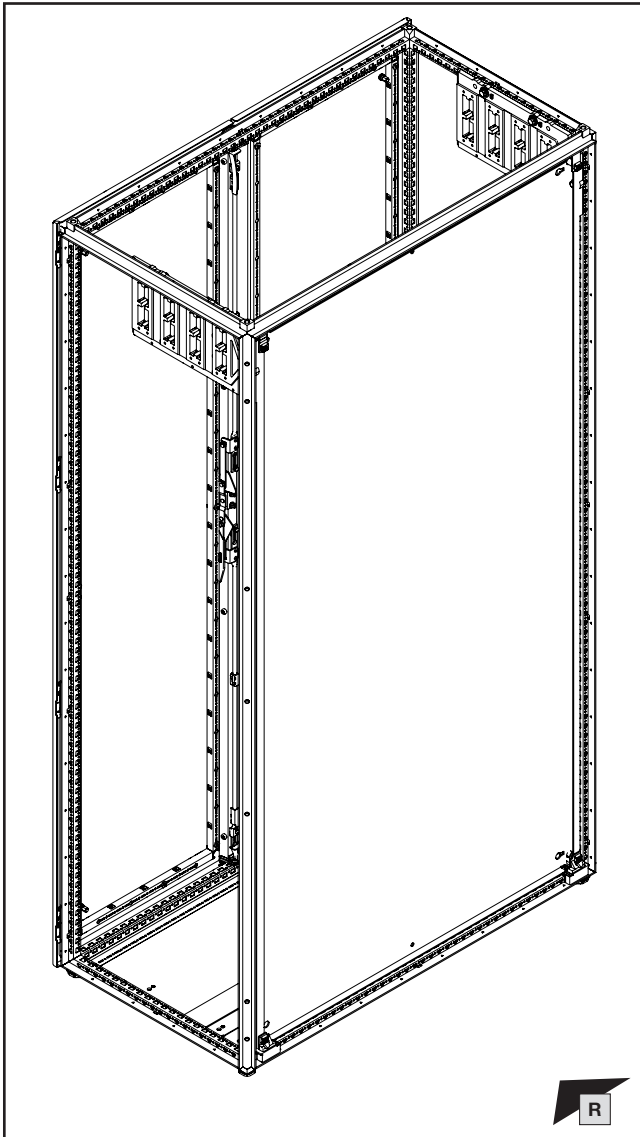
11. Schutzeigenschaft Störlichtbogenklasse A

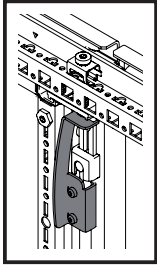
11. Protection property Arcing class A

11. Propriété de protection arc électrique de catégorie A



- 11.4 Verstärkung Verschlussstange Doppeltür
11.4 Reinforcement of double door locking bar
11.4 Renfort de la tringlerie des portes doubles





TX20



DE EN FR

11. Schutzeigenschaft Störlichtbogenklasse A

11. Protection property Arcing class A

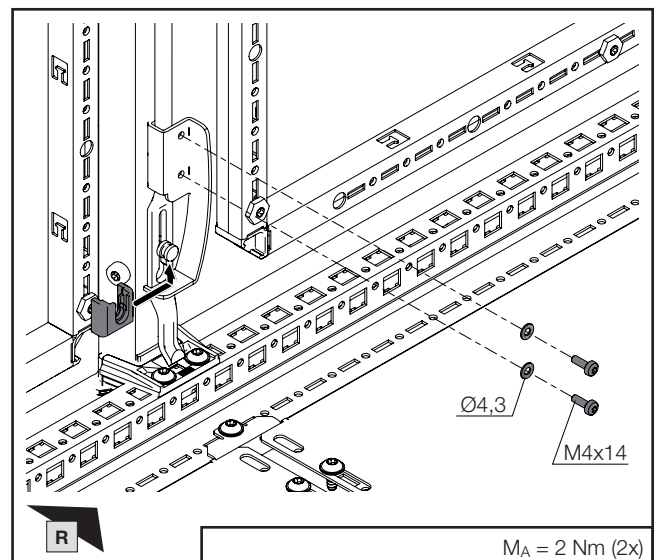
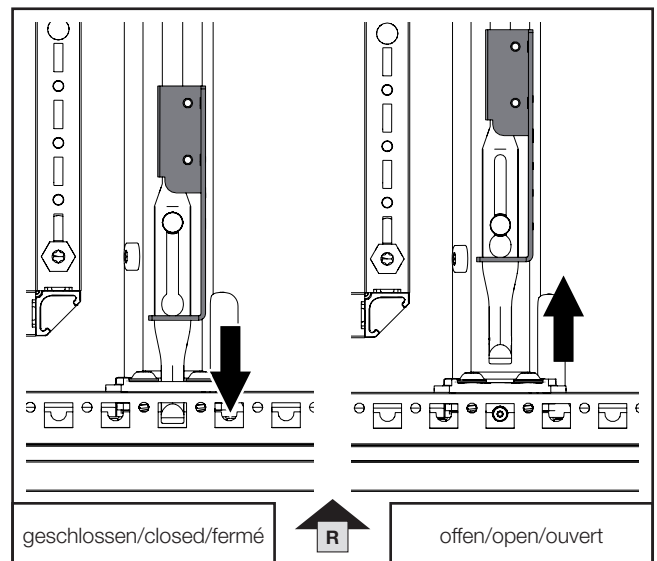
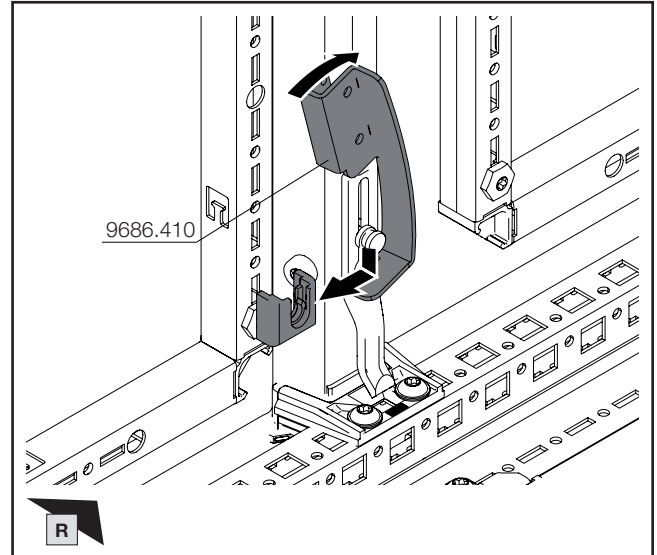
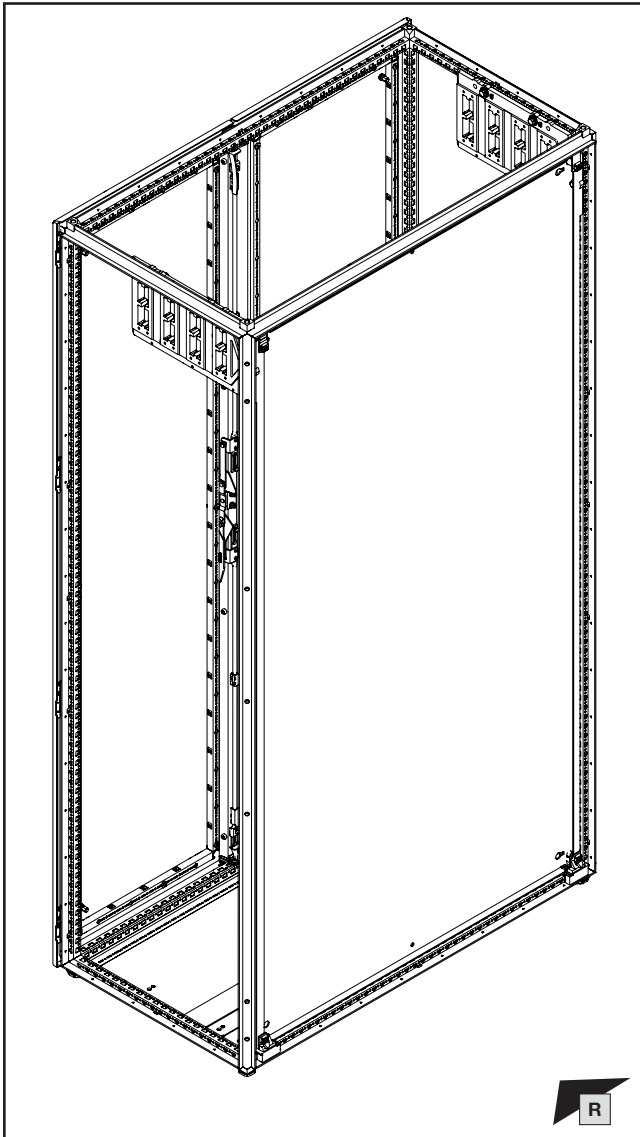
11. Propriété de protection arc électrique de catégorie A

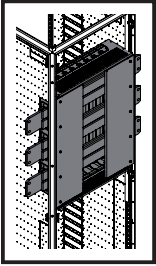


11.4 Verstärkung Verschlussstange Doppeltür

11.4 Reinforcement of double door locking bar

11.4 Renfort de la tringlerie des portes doubles





12. Schutzeigenschaft Störlichtbogenklasse B

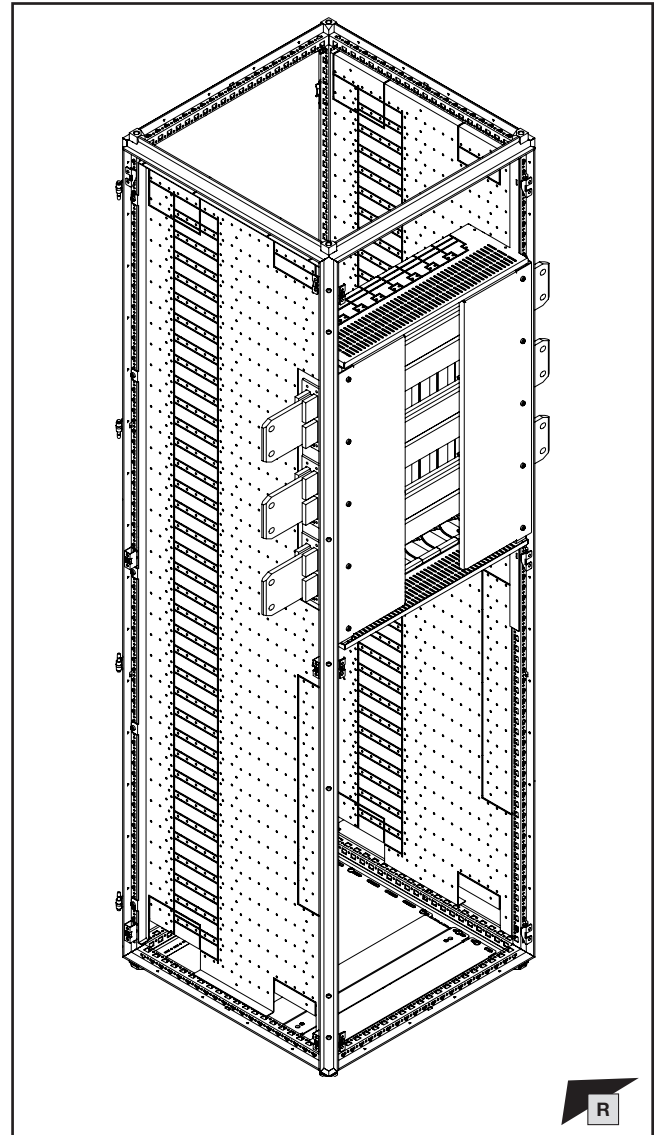
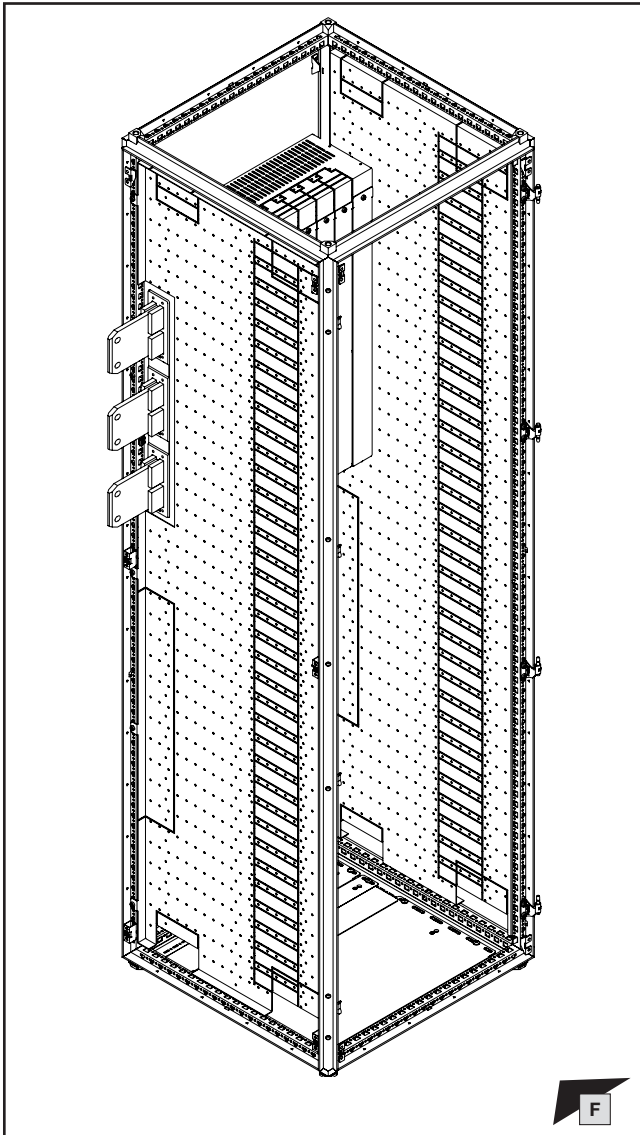
12. Protection property Arcing class B

12. Propriété de protection arc électrique de catégorie B

12.1 Rückbereich 185 mm Mitte mit Sammelschienenanreihung

12.1 Rear section, 185 mm centre with busbar baying

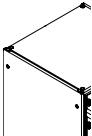
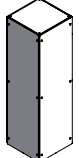
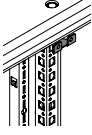
12.1 Zone arrière au milieu 185 mm avec juxtaposition du jeu de barres

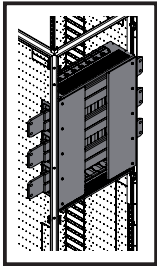


Hinweis / Note / Remarque

Schutzeigenschaft Störlichtbogenklasse B nur erfüllt bei zusätzlich vollständiger Ausführung Störlichtbogenklasse A entsprechend Abschnitt 11:
Protection property, arcing class B is only met where arcing class A is additionally met in full, as described in chapter 11:

Catégorie de défaut d'arc B uniquement satisfaite avec la version complète supplémentaire catégorie de défaut d'arc A selon la section 11 :

	11.1	✓		11.3	✓
	11.2	✓		11.4	✓



TX30



SW13



DE EN FR

12. Schutz Eigenschaft Störlichtbogenklasse B

12. Protection property Arcing class B

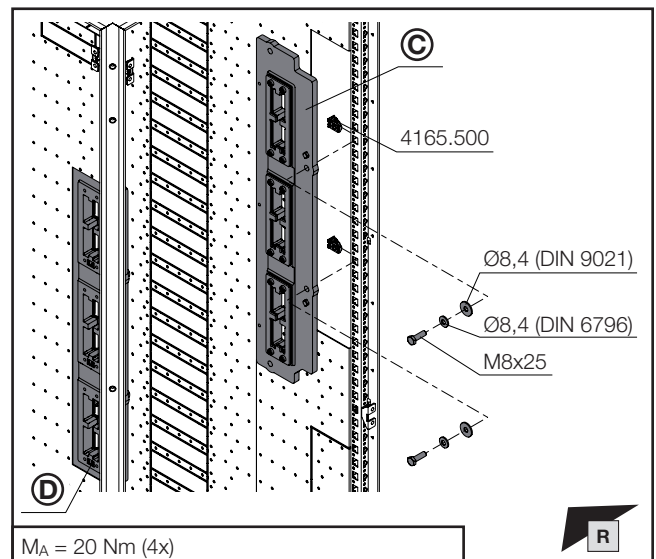
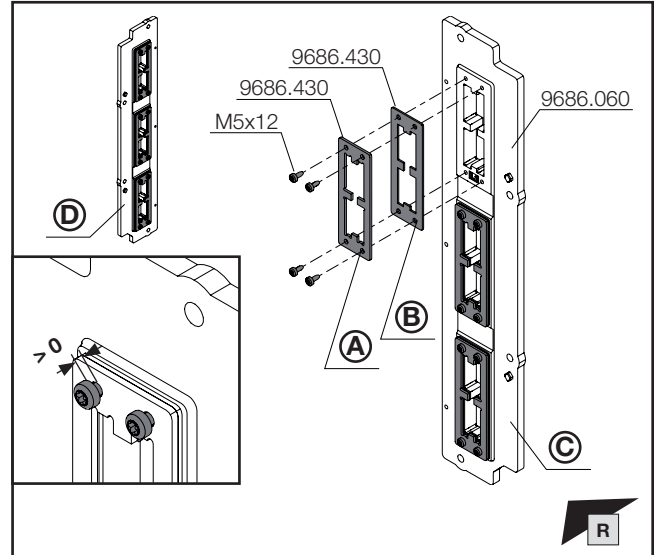
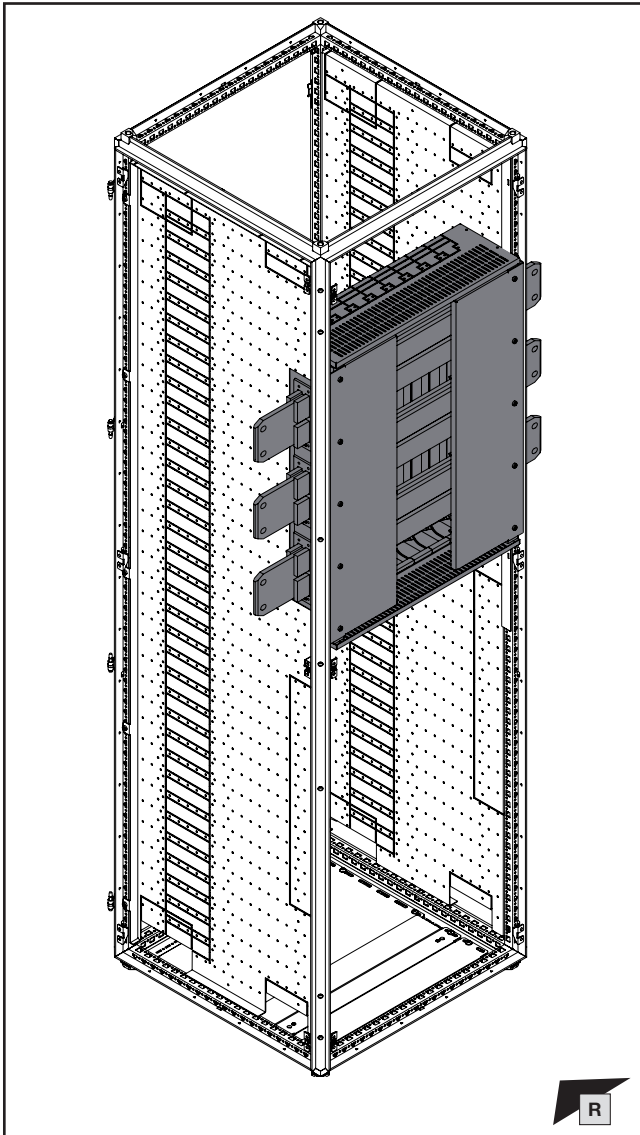
12. Propriété de protection arc électrique de catégorie B



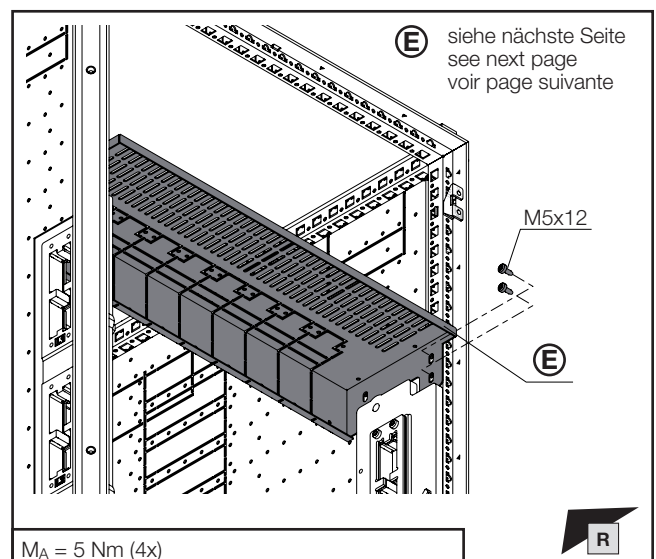
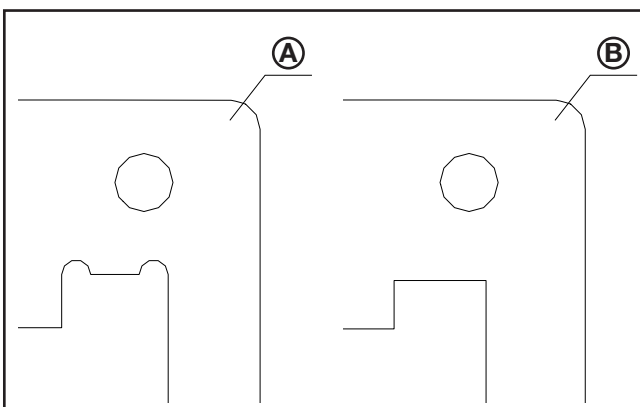
12.1 Rückbereich 185 mm Mitte mit Sammelschienenanreihung

12.1 Rear section, 185 mm centre with busbar baying

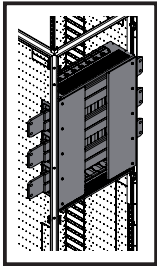
12.1 Zone arrière au milieu 185 mm avec juxtaposition du jeu de barres



$M_A = 20 \text{ Nm (4x)}$



$M_A = 5 \text{ Nm (4x)}$



TX30



DE EN FR

12. Schutz Eigenschaft Störlichtbogenklasse B

12. Protection property Arcing class B

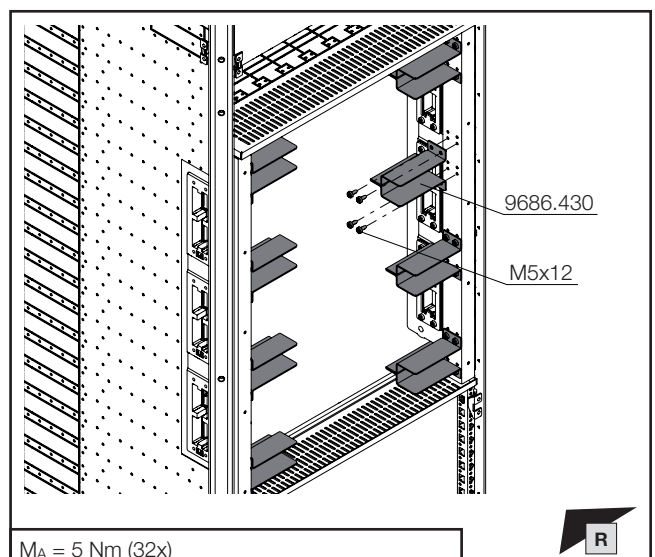
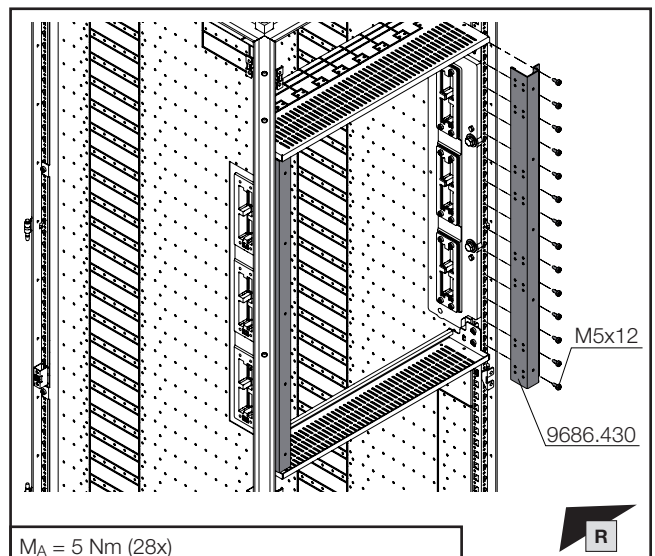
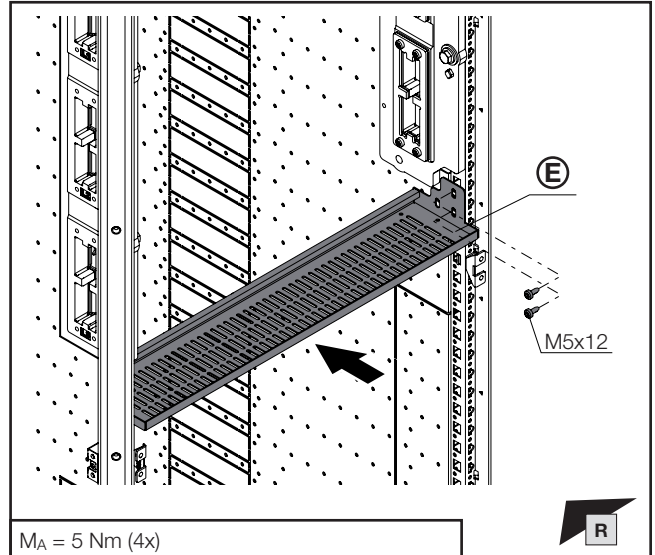
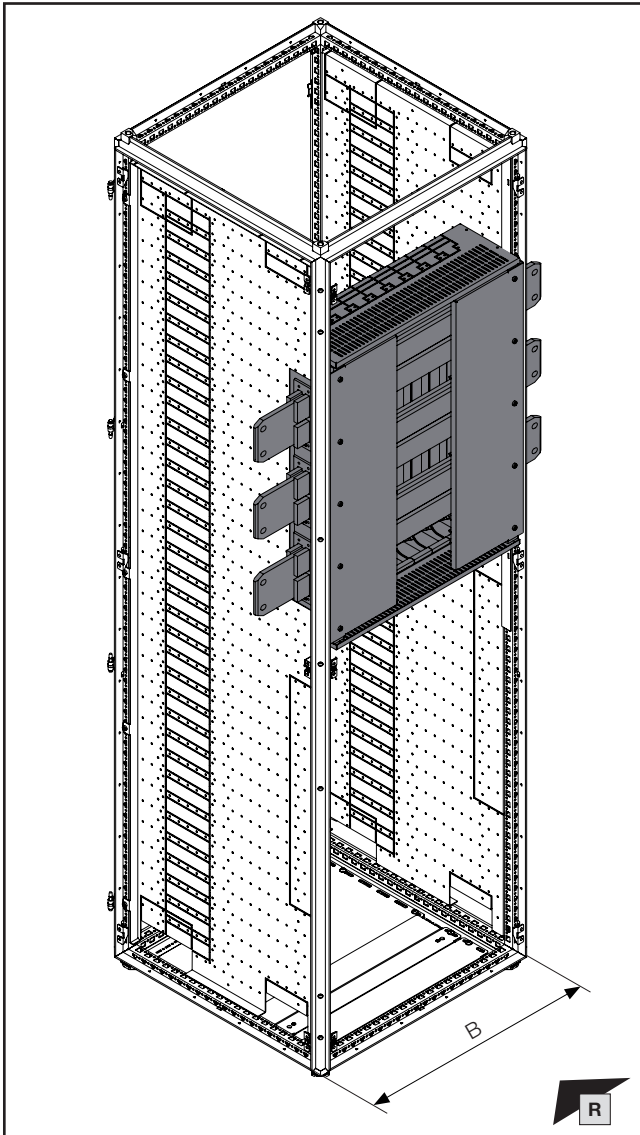
12. Propriété de protection arc électrique de catégorie B



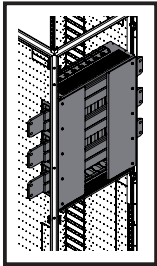
12.1 Rückbereich 185 mm Mitte mit Sammelschienenanreihung

12.1 Rear section, 185 mm centre with busbar baying

12.1 Zone arrière au milieu 185 mm avec juxtaposition du jeu de barres



Schrankbreite Enclosure width Largeur d'armoire B mm	(E) Best.-Nr. Model No. Référence
600	9684.960
800	9684.980
1000	9684.900
1200	9684.920



TX30



SW16
SW17



DE EN FR

12. Schutzeigenschaft Störlichtbogenklasse B

12. Protection property Arcing class B

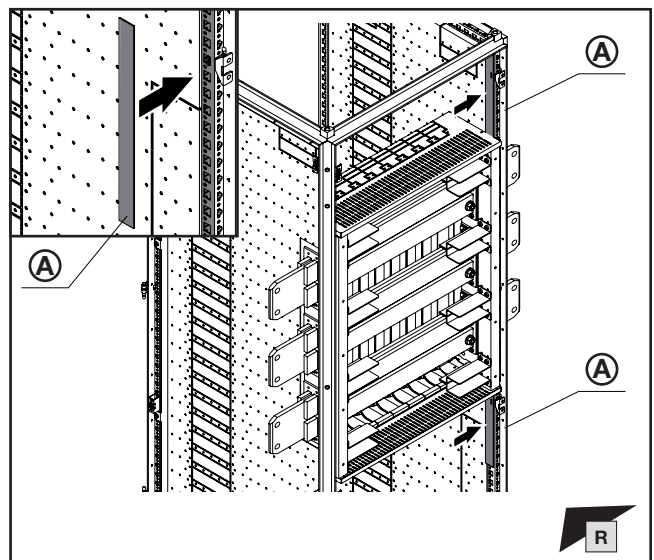
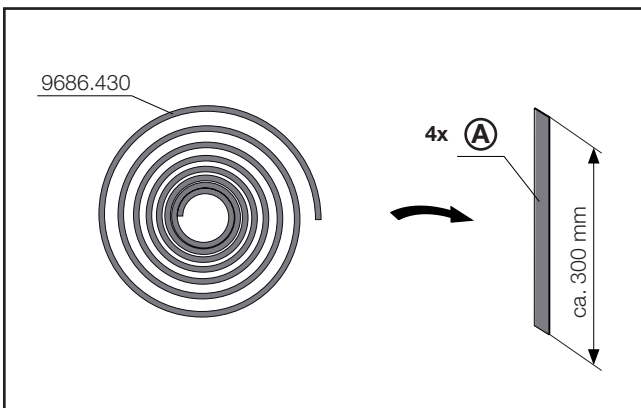
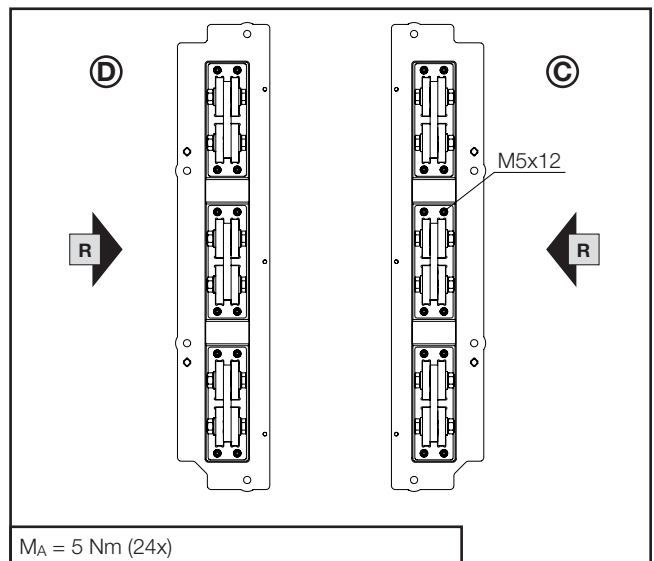
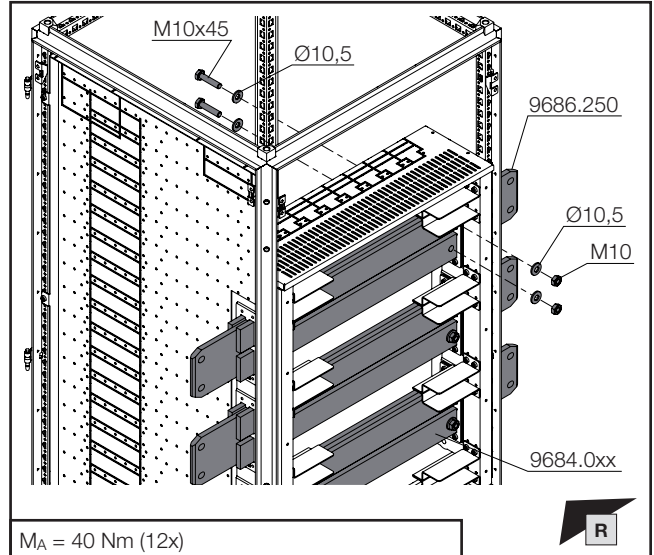
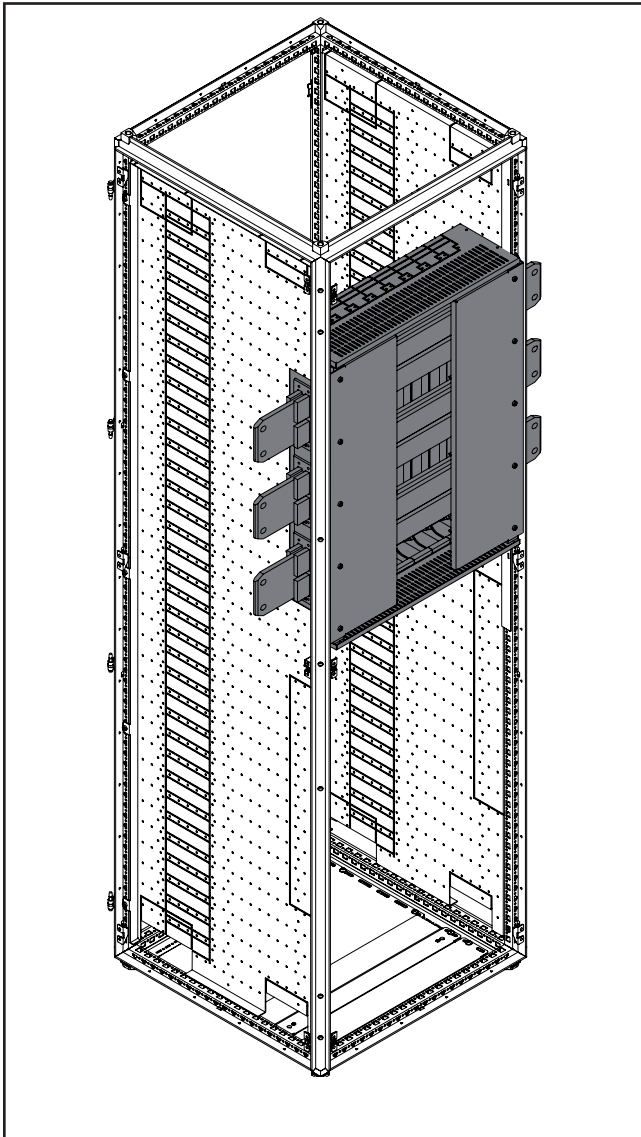
12. Propriété de protection arc électrique de catégorie B

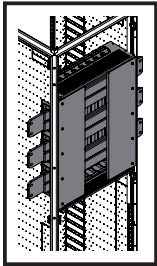


12.1 Rückbereich 185 mm Mitte mit Sammelschienenanreihung

12.1 Rear section, 185 mm centre with busbar baying

12.1 Zone arrière au milieu 185 mm avec juxtaposition du jeu de barres





TX30



DE EN FR

12. Schutzeigenschaft Störlichtbogenklasse B

12. Protection property Arcing class B

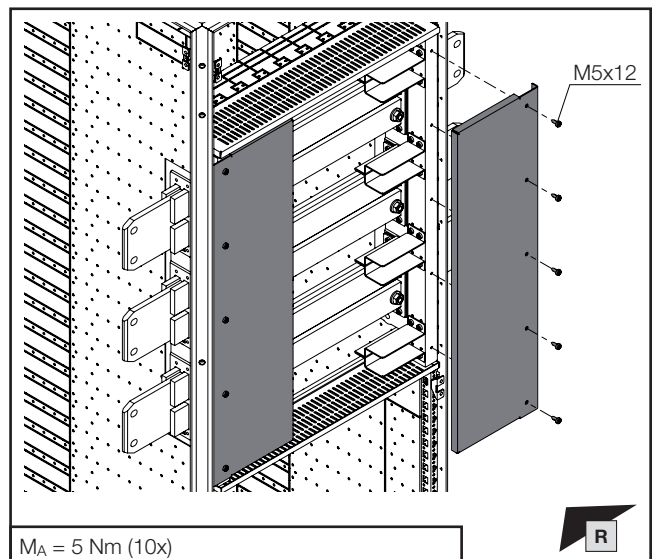
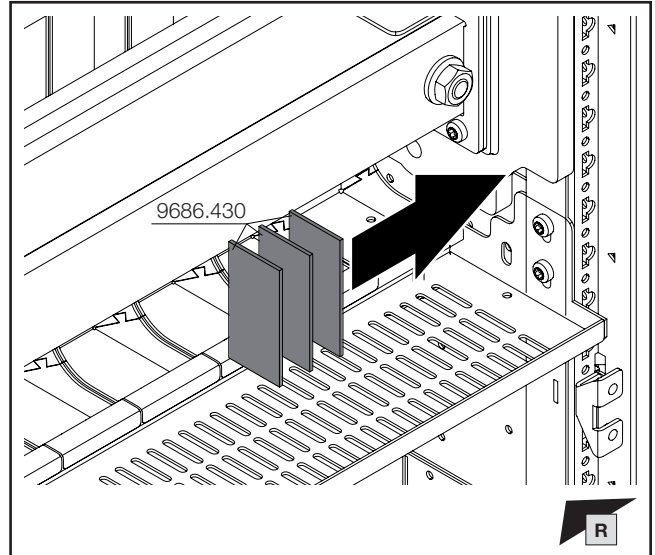
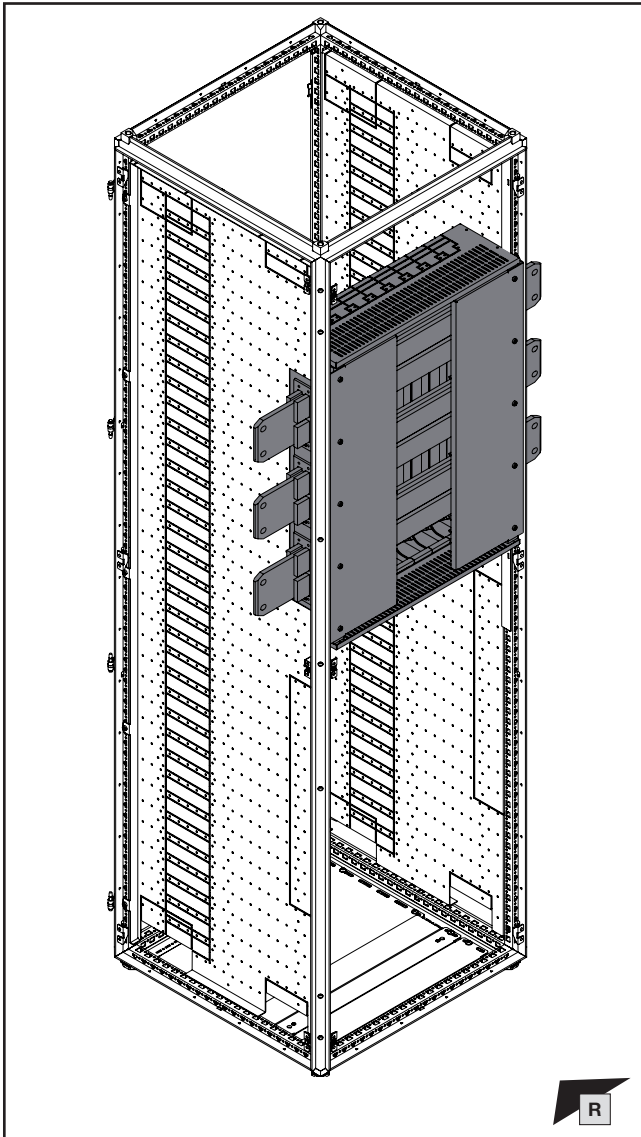
12. Propriété de protection arc électrique de catégorie B



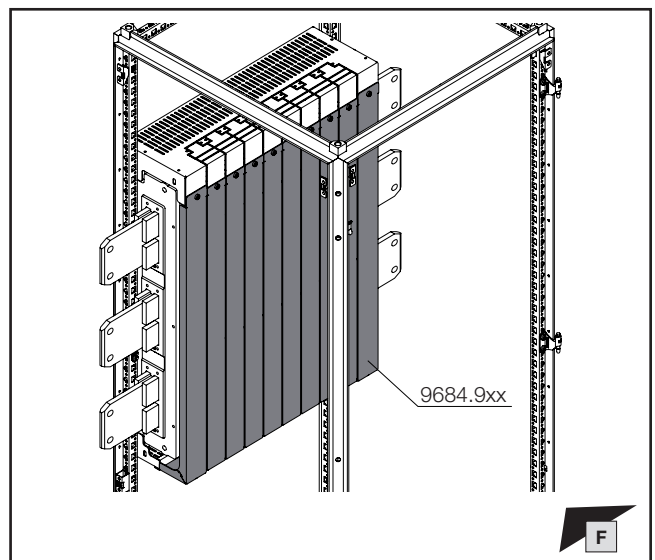
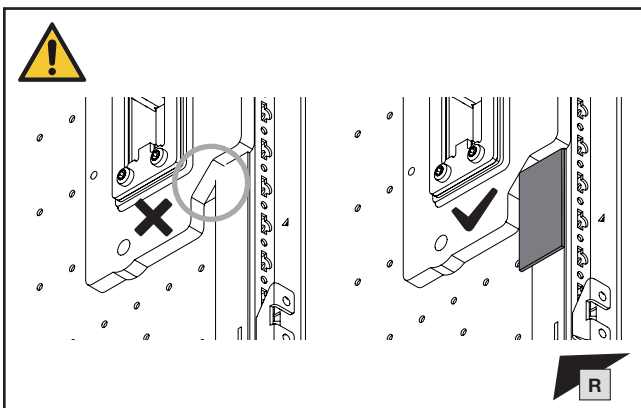
12.1 Rückbereich 185 mm Mitte mit Sammelschienenanreihung

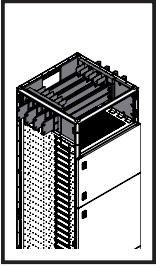
12.1 Rear section, 185 mm centre with busbar baying

12.1 Zone arrière au milieu 185 mm avec juxtaposition du jeu de barres



$M_A = 5 \text{ Nm (10x)}$



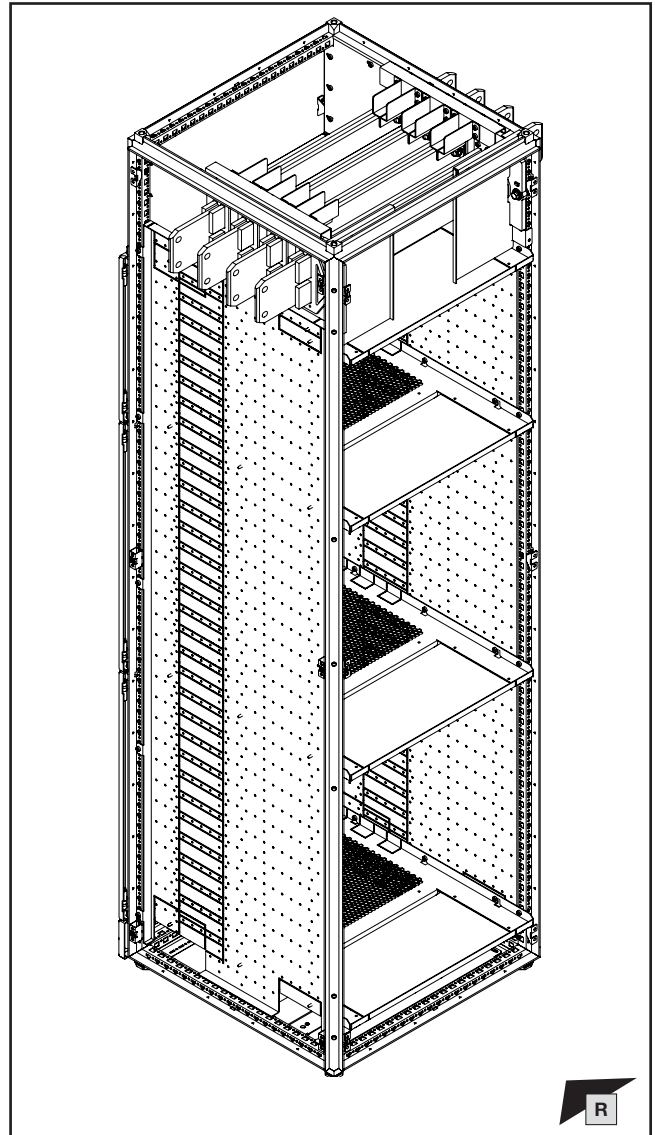
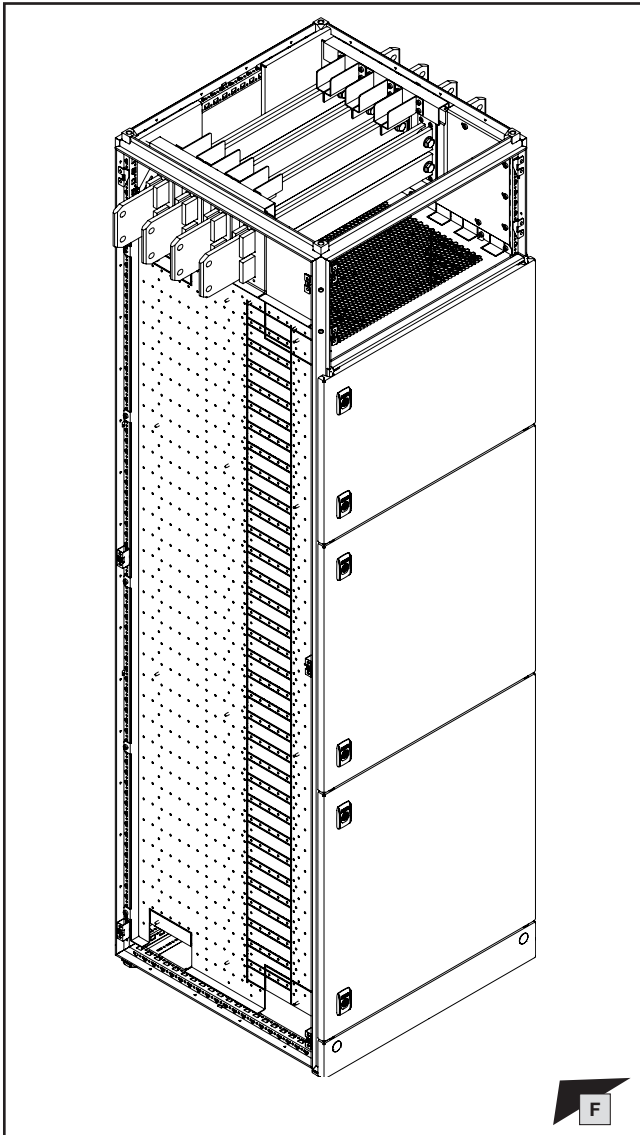


12. Schutzeigenschaft Störlichtbogenklasse B

12. Protection property Arcing class B

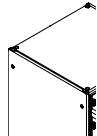
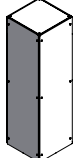
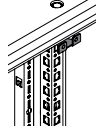
12. Propriété de protection arc électrique de catégorie B

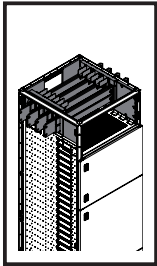
- 12.2 Dachbereich 4-polig mit Sammelschienenanreihung – Schranktiefe 600 mm
- 12.2 Roof section, 4-pole with busbar baying – enclosure depth 600 mm
- 12.2 Zone toit tétrapolaire avec juxtaposition du jeu de barres – armoire de profondeur 600 mm



Hinweis / Note / Remarque

Schutzeigenschaft Störlichtbogenklasse B nur erfüllt bei zusätzlich vollständiger Ausführung Störlichtbogenklasse A entsprechend Abschnitt 11:
Protection property, arcing class B is only met where arcing class A is additionally met in full, as described in chapter 11:
Catégorie de défaut d'arc B uniquement satisfaite avec la version complète supplémentaire catégorie de défaut d'arc A selon la section 11 :

	11.1 ✓		11.3 ✓
	11.2 ✓		11.4 ✓



TX30



SW13



DE EN FR

12. Schutz Eigenschaft Störlichtbogenklasse B

12. Protection property Arcing class B

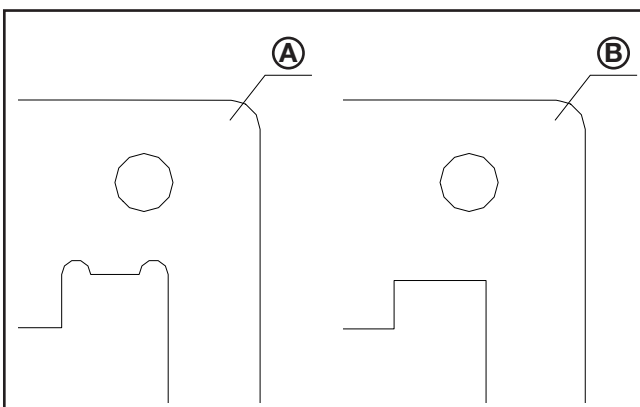
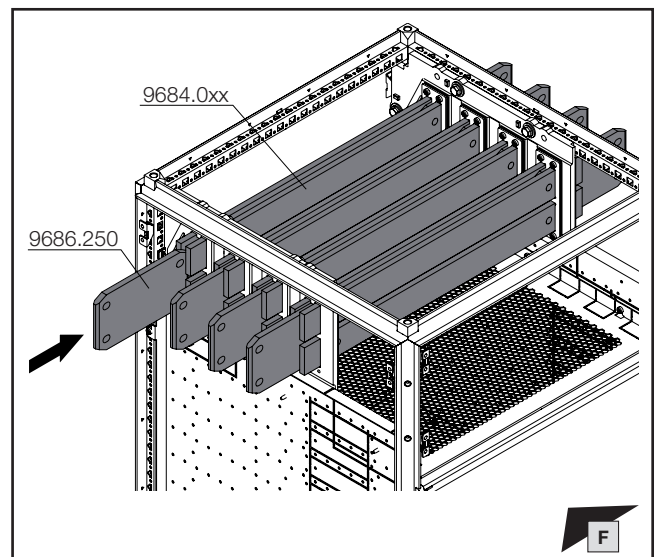
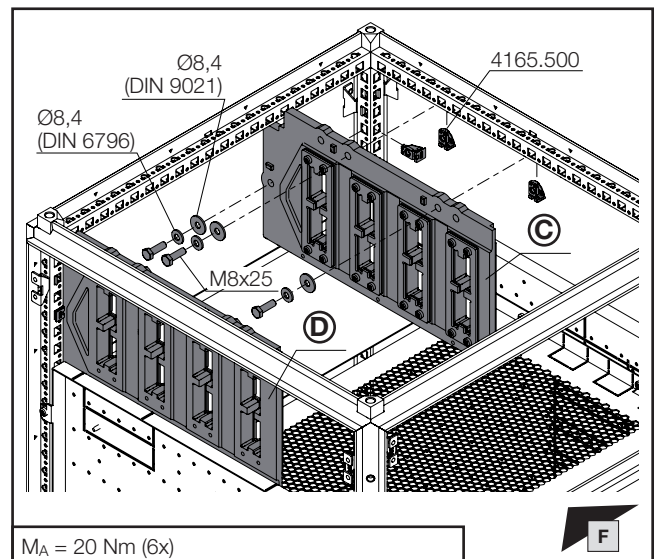
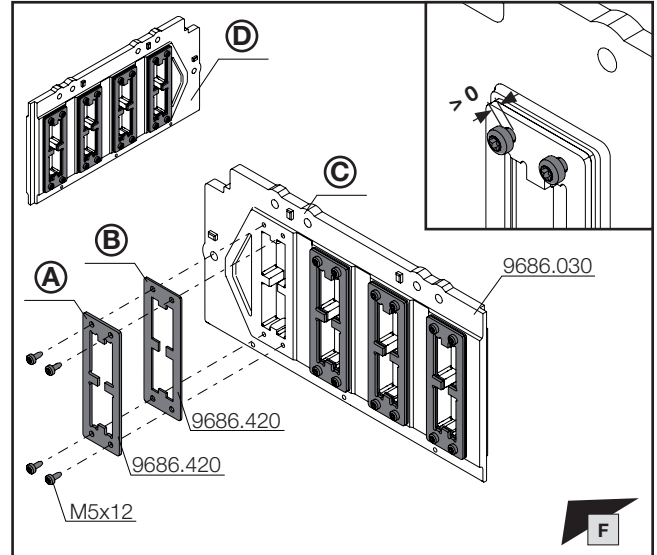
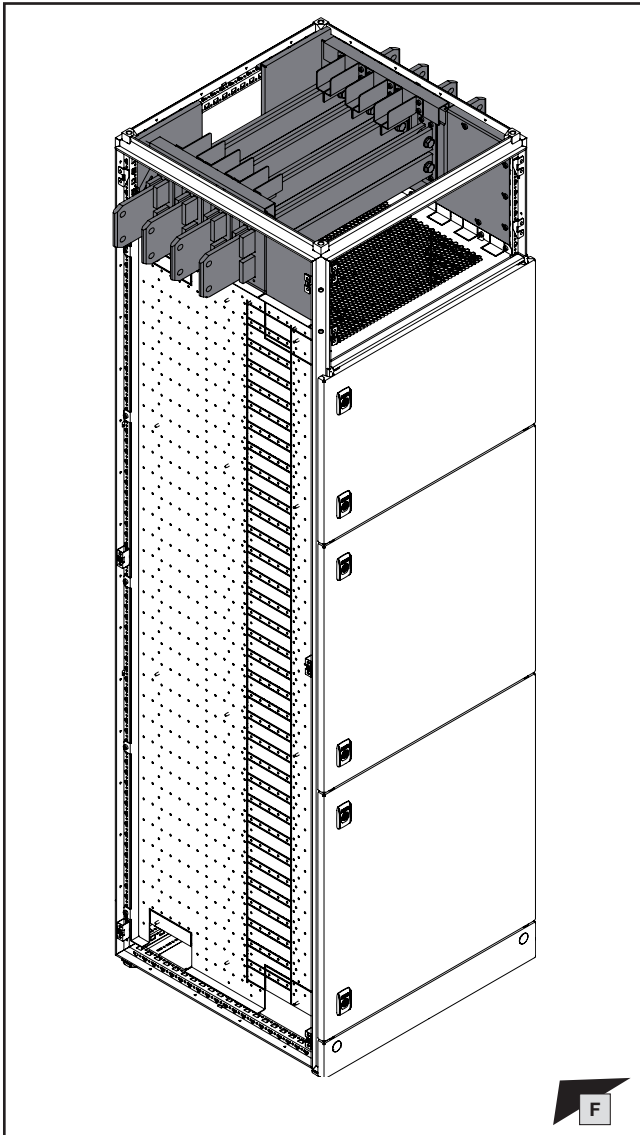
12. Propriété de protection arc électrique de catégorie B

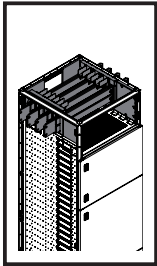


12.2 Dachbereich 4-polig mit Sammelschienenanreihung – Schranktiefe 600 mm

12.2 Roof section, 4-pole with busbar baying – enclosure depth 600 mm

12.2 Zone toit tétrapolaire avec juxtaposition du jeu de barres – armoire de profondeur 600 mm





TX30



SW16
SW17



DE EN FR

12. Schutz Eigenschaft Störlichtbogenklasse B

12. Protection property Arcing class B

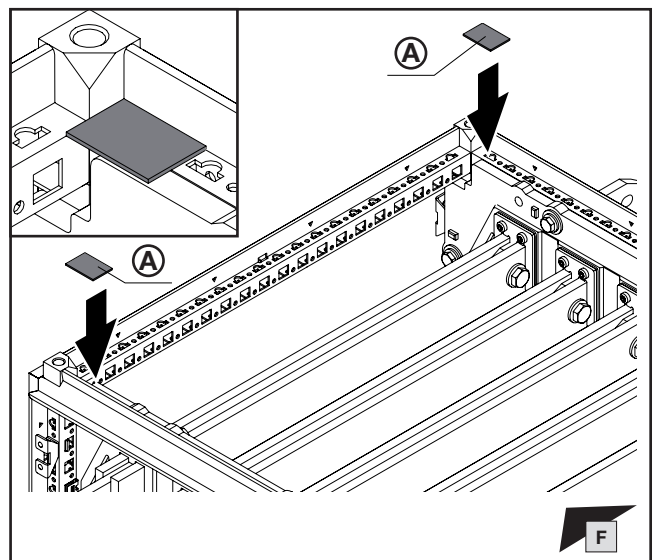
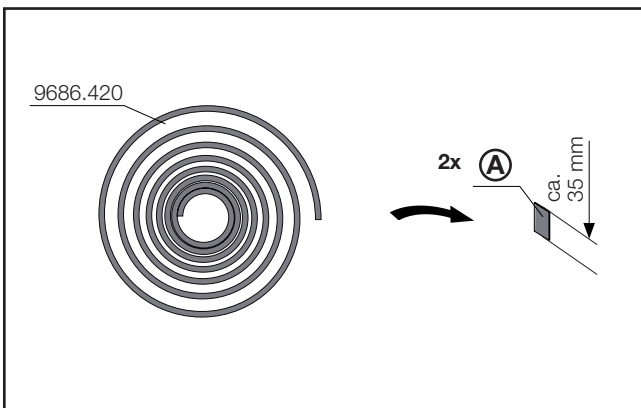
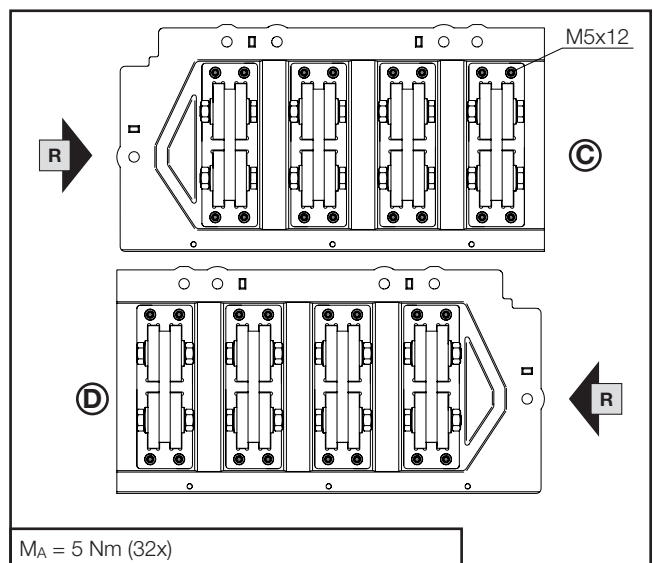
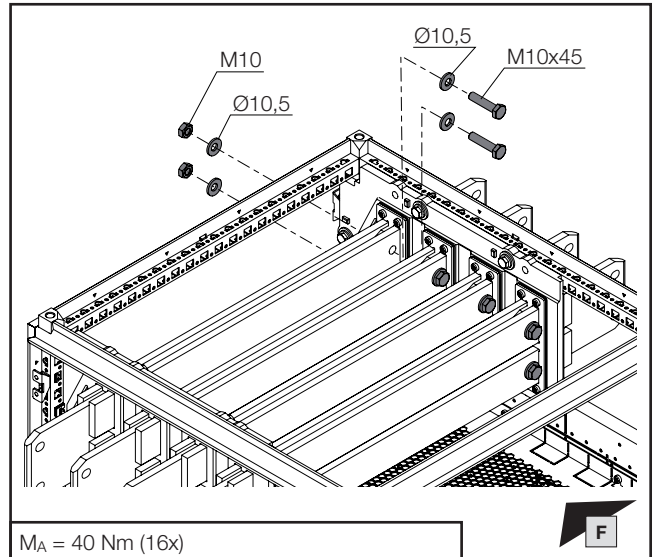
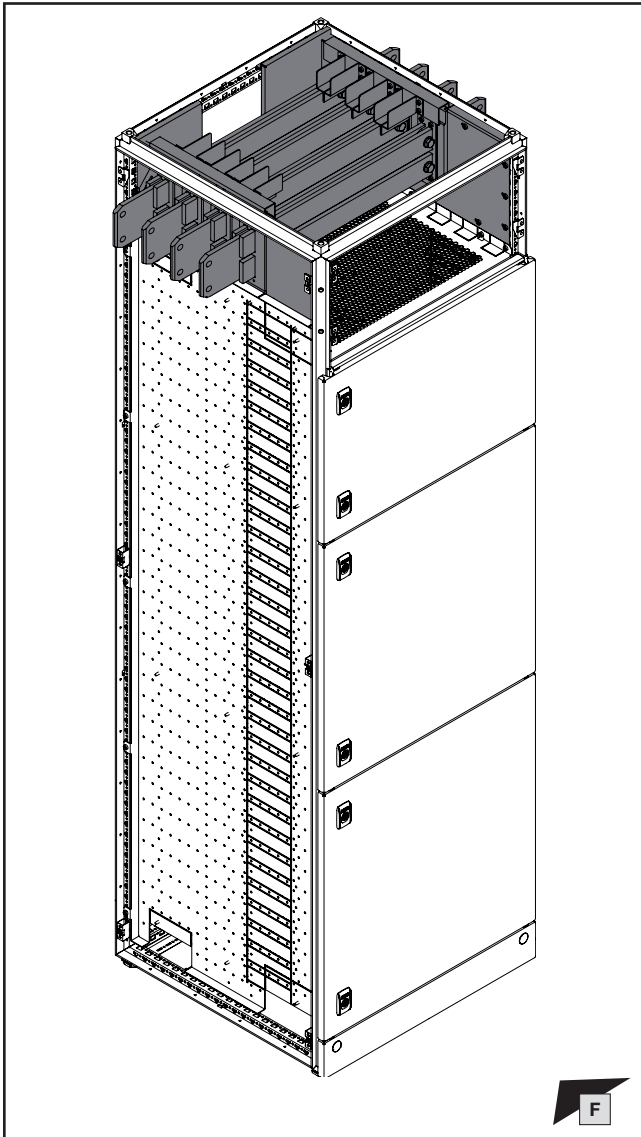
12. Propriété de protection arc électrique de catégorie B

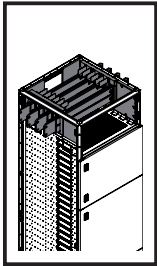


12.2 Dachbereich 4-polig mit Sammelschienenanreihung – Schranktiefe 600 mm

12.2 Roof section, 4-pole with busbar baying – enclosure depth 600 mm

12.2 Zone toit tétrapolaire avec juxtaposition du jeu de barres – armoire de profondeur 600 mm





TX30



DE EN FR

12. Schutzeigenschaft Störlichtbogenklasse B

12. Protection property Arcing class B

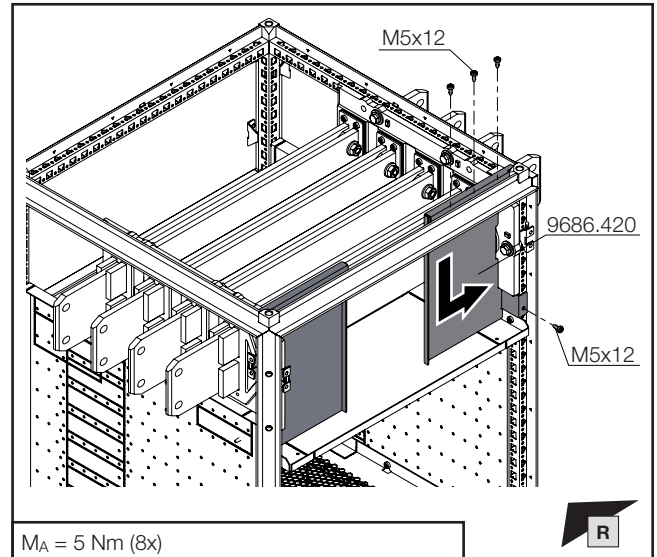
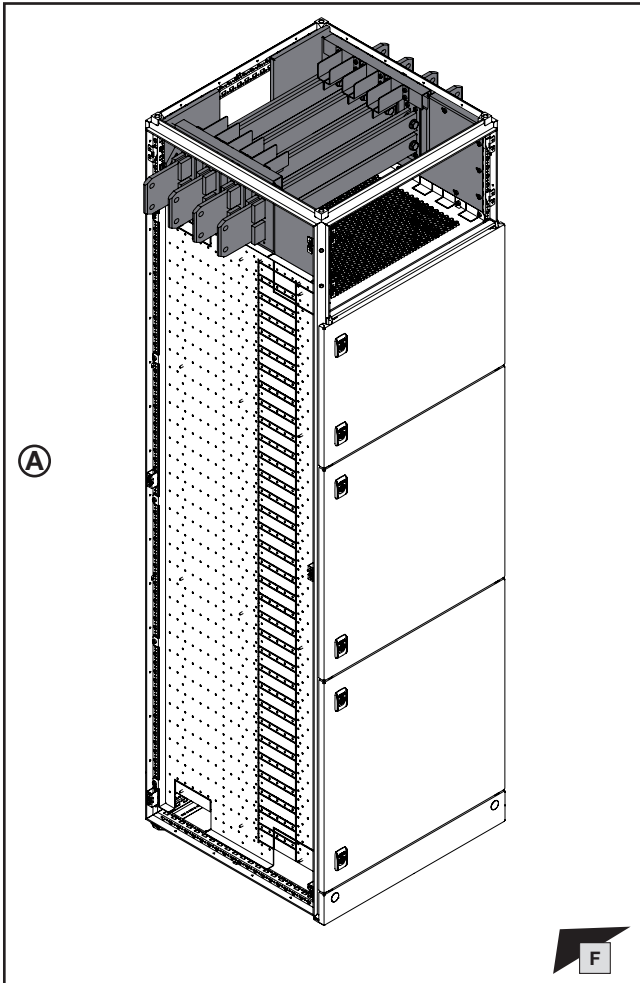
12. Propriété de protection arc électrique de catégorie B



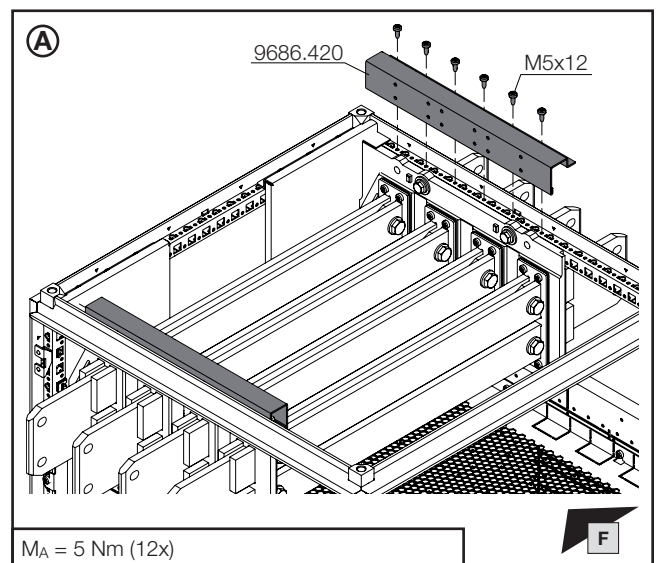
12.2 Dachbereich 4-polig mit Sammelschienenanreihung – Schranktiefe 600 mm

12.2 Roof section, 4-pole with busbar baying – enclosure depth 600 mm

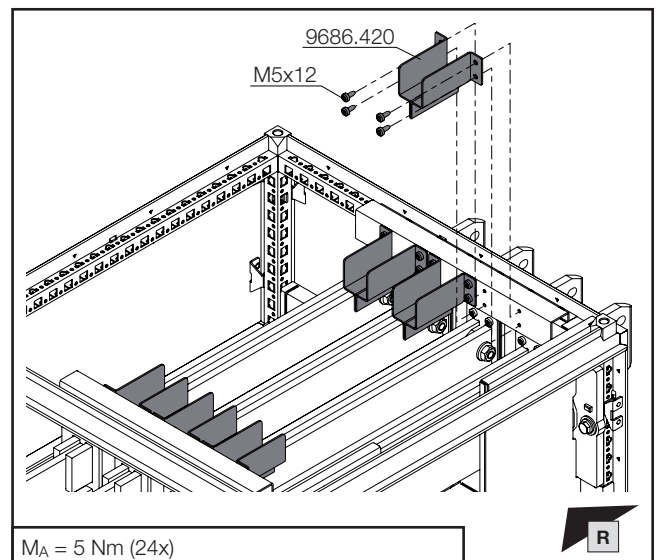
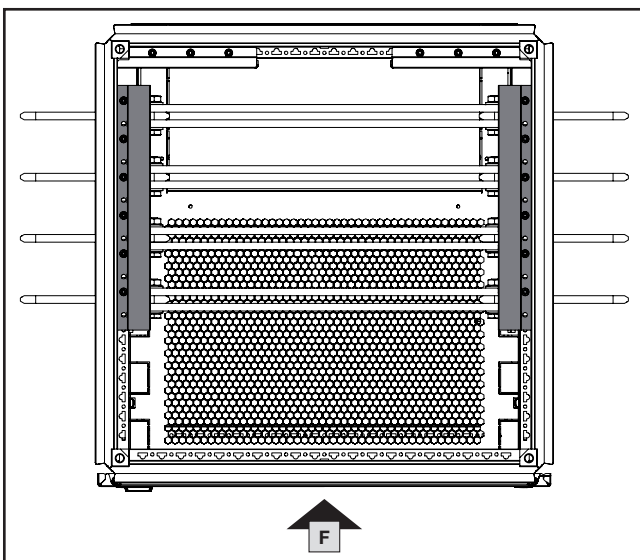
12.2 Zone toit tétrapolaire avec juxtaposition du jeu de barres – armoire de profondeur 600 mm



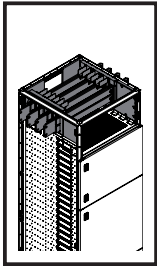
$M_A = 5 \text{ Nm (8x)}$



$M_A = 5 \text{ Nm (12x)}$



$M_A = 5 \text{ Nm (24x)}$



TX30



DE EN FR

12. Schutz Eigenschaft Störlichtbogenklasse B

12. Protection property Arcing class B

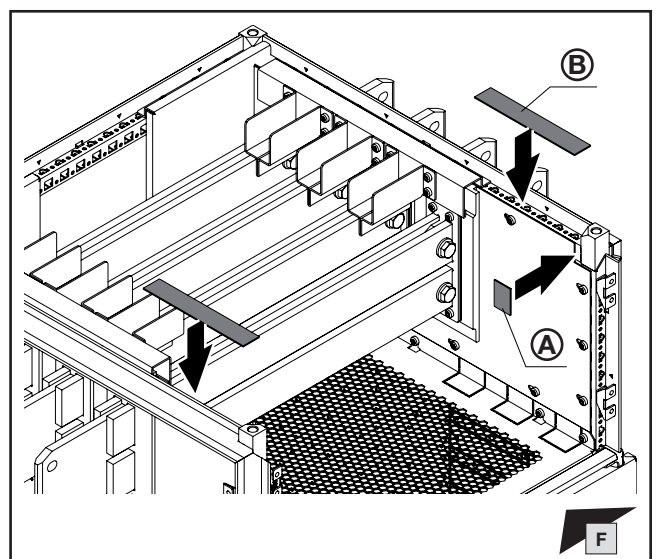
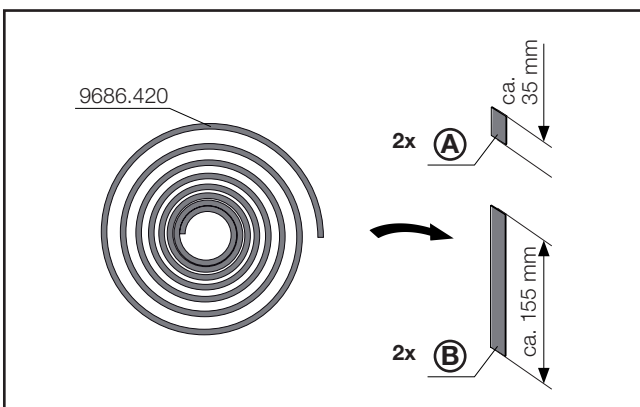
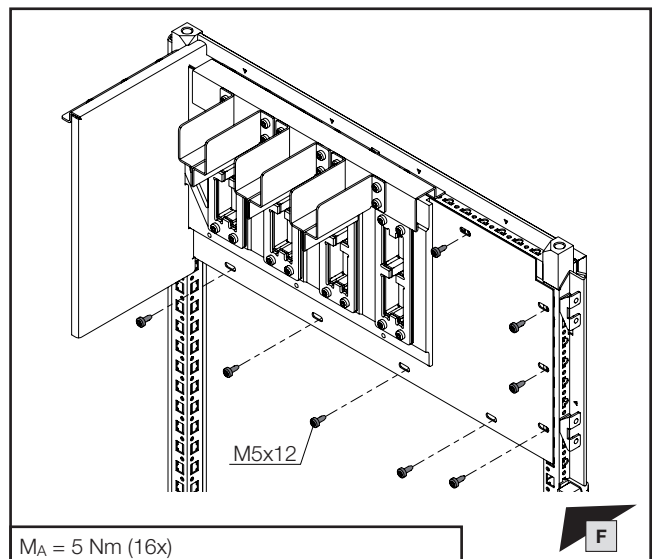
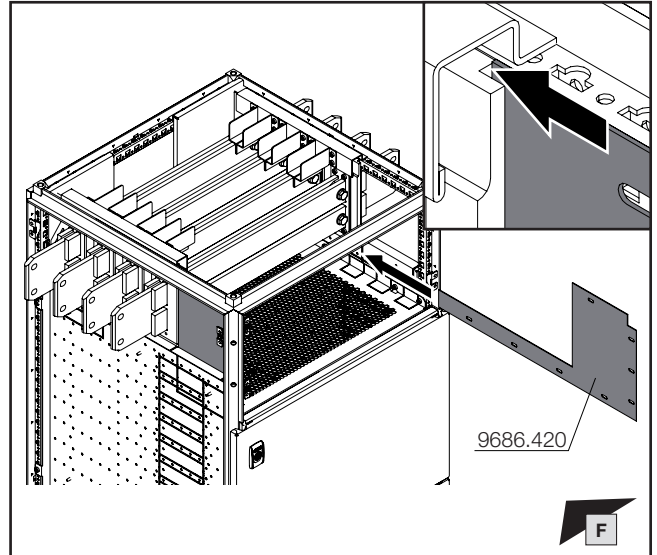
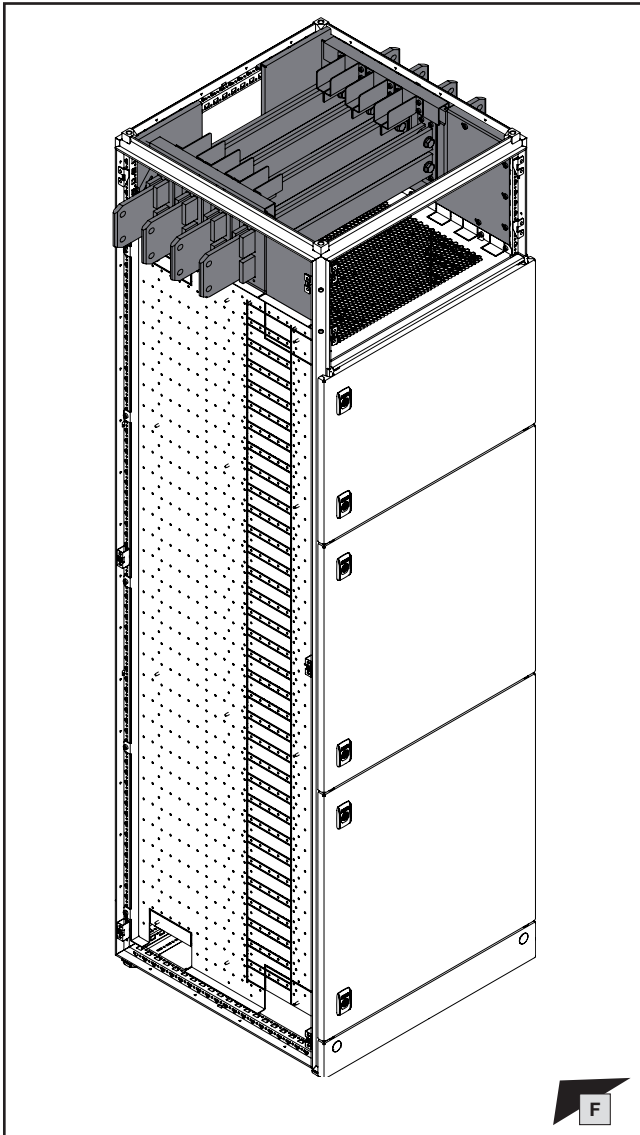
12. Propriété de protection arc électrique de catégorie B

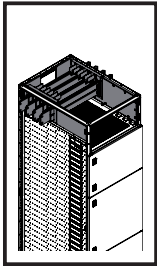


12.2 Dachbereich 4-polig mit Sammelschienenanreihung – Schranktiefe 600 mm

12.2 Roof section, 4-pole with busbar baying – enclosure depth 600 mm

12.2 Zone toit tétrapolaire avec juxtaposition du jeu de barres – armoire de profondeur 600 mm





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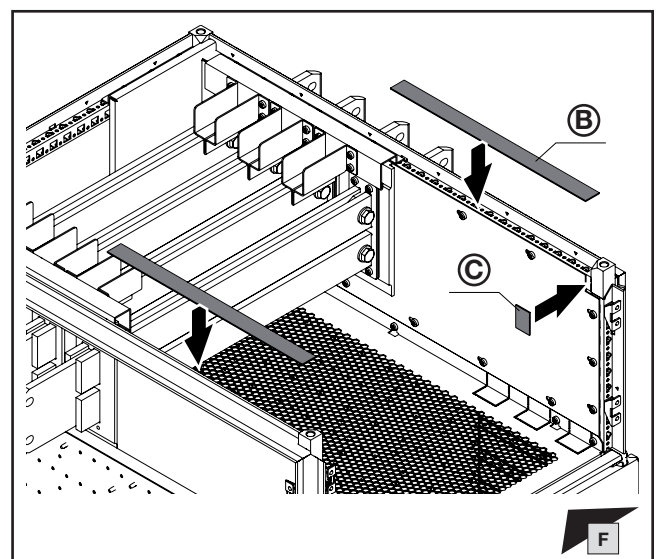
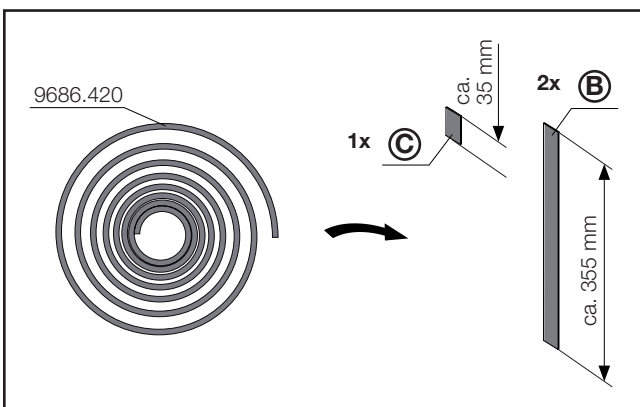
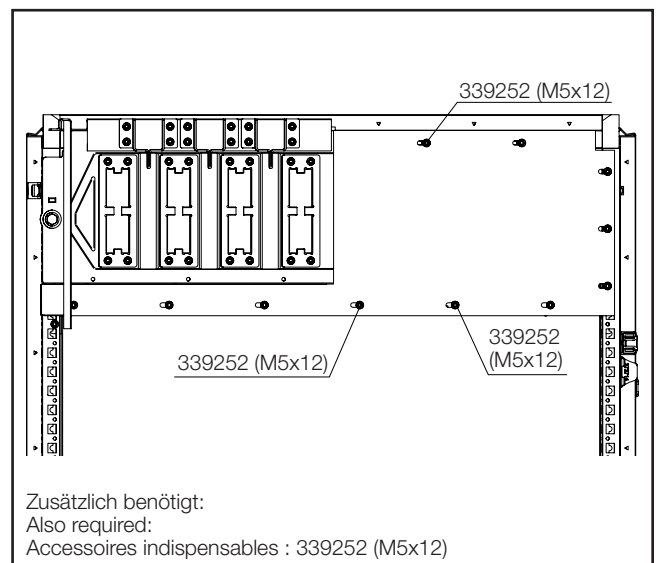
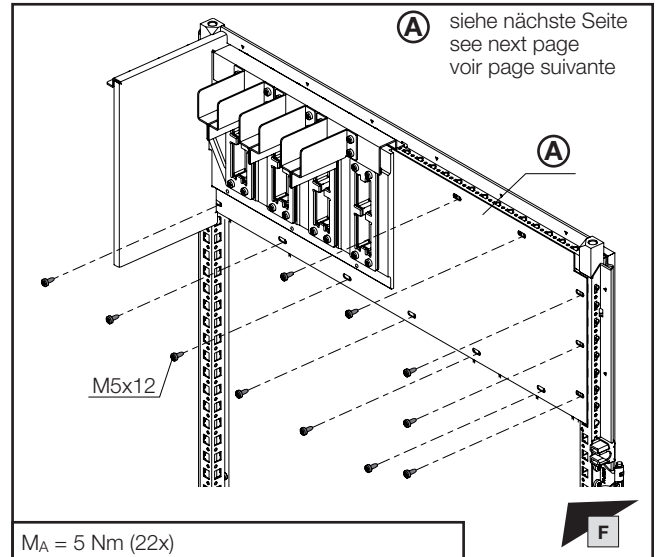
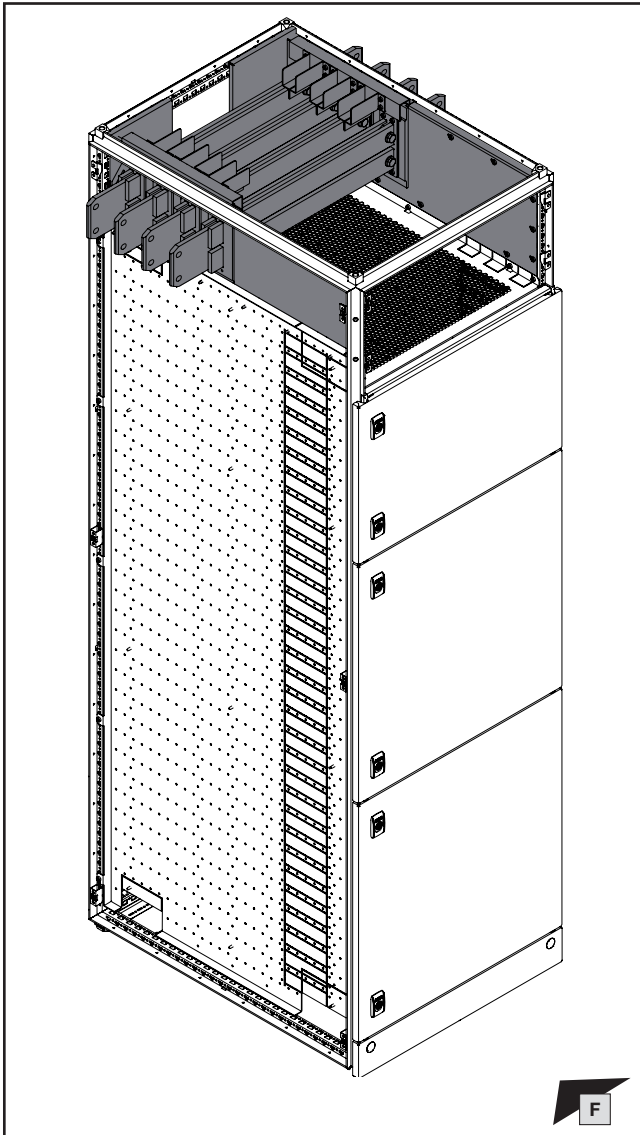
12. Schutz Eigenschaft Störlichtbogenklasse B

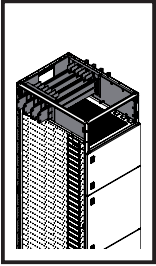
12. Protection property Arcing class B

12. Propriété de protection arc électrique de catégorie B



- 12.3 Besonderheit Dachbereich – Schranktiefe 800 mm
 12.3 Special feature of roof section – enclosure depth 800 mm
 12.3 Particularité zone toit – armoire de profondeur 800 mm



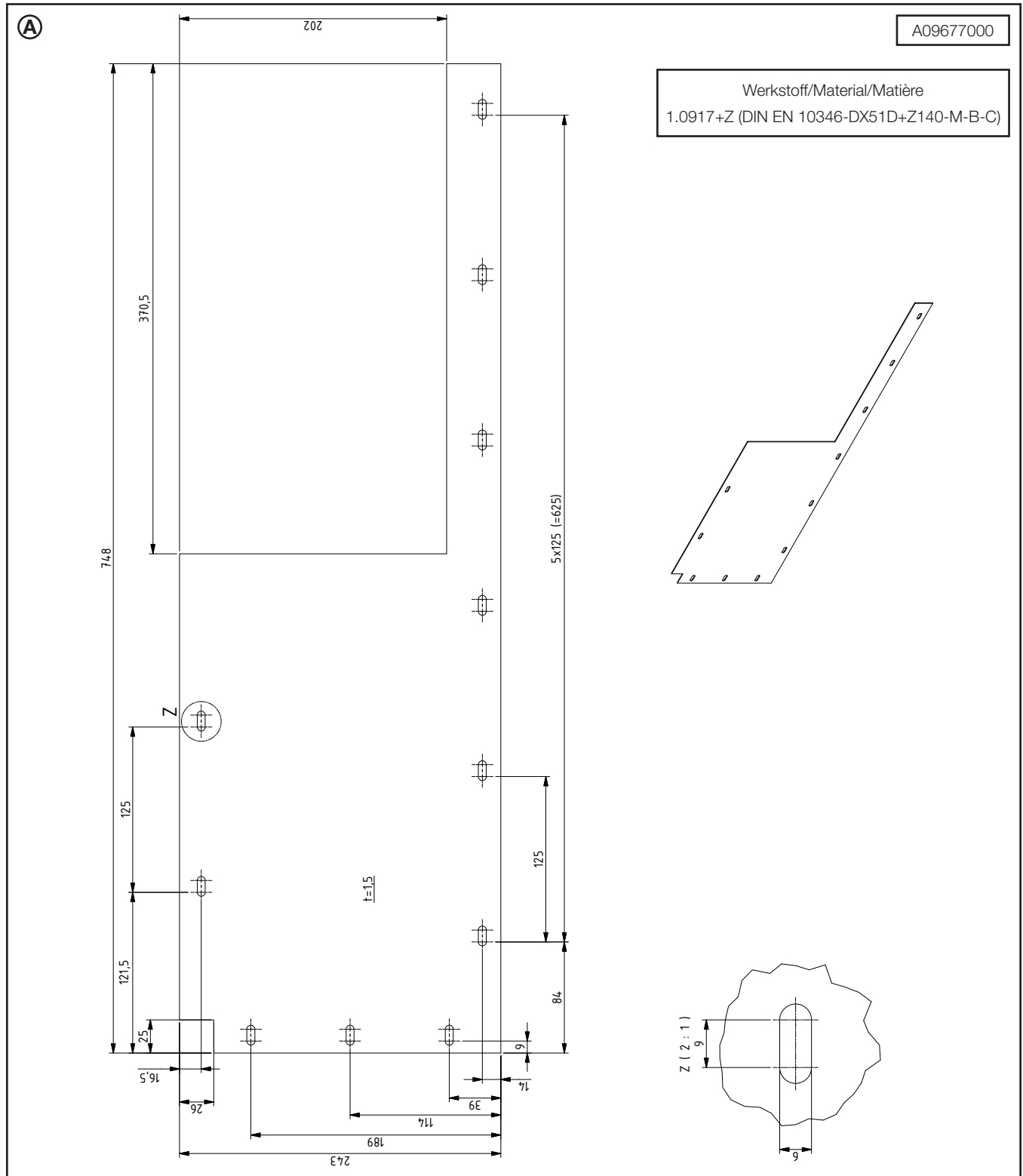


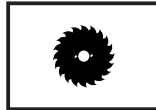
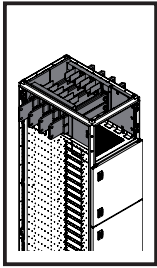
12. Schutzeigenschaft Störlichtbogenklasse B

12. Protection property Arcing class B

12. Propriété de protection arc électrique de catégorie B

12.3 Besonderheit Dachbereich – Schranktiefe 800 mm
 12.3 Special feature of roof section – enclosure depth 800 mm
 12.3 Particularité zone toit – armoire de profondeur 800 mm





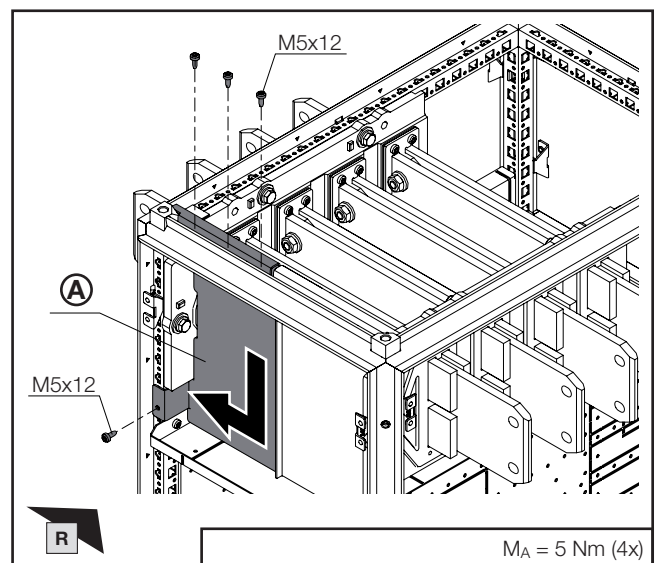
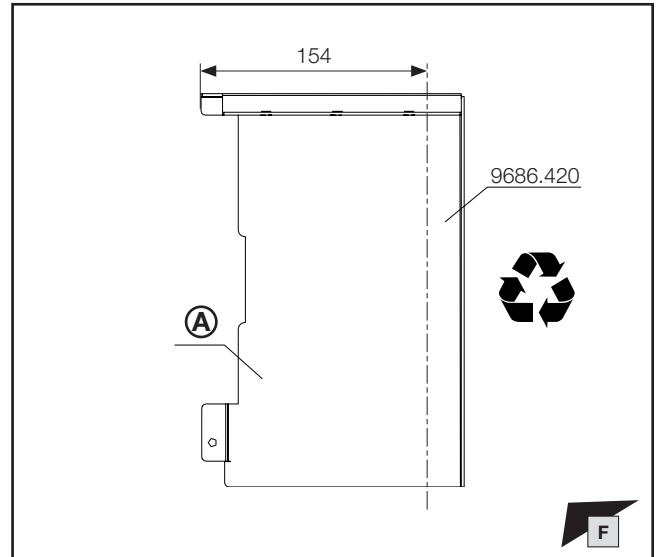
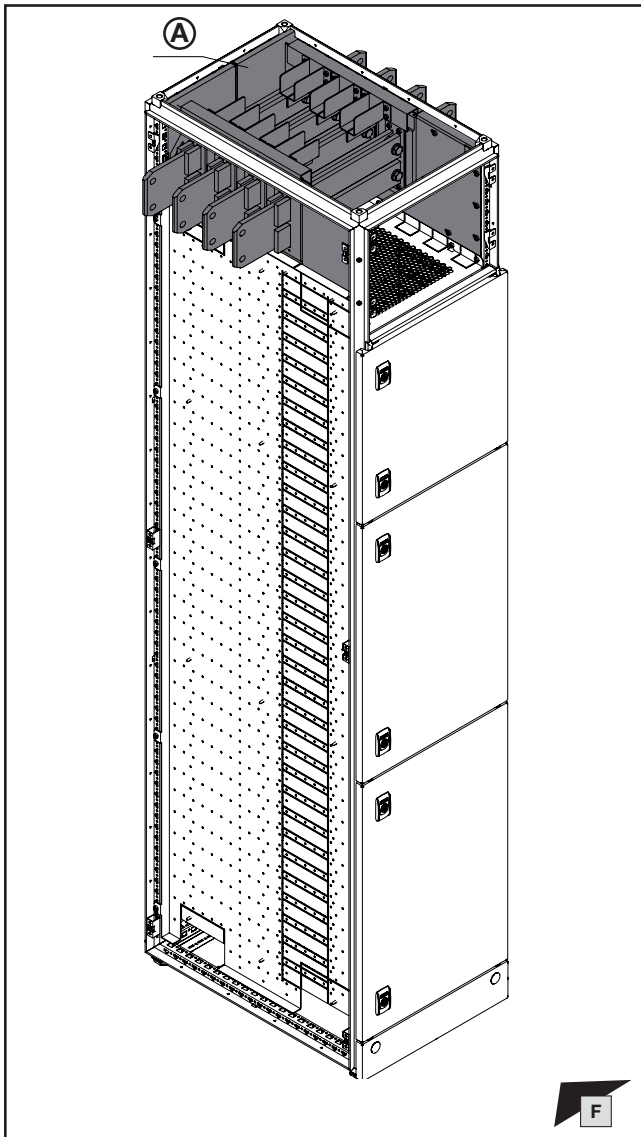
12. Schutz Eigenschaft Störlichtbogenklasse B

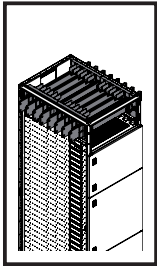
12. Protection property Arcing class B

12. Propriété de protection arc électrique de catégorie B



12.4 Besonderheit Dachbereich – Schrankbreite 400 mm
 12.4 Special feature of roof section – enclosure width 400 mm
 12.4 Particularité zone toit – armoire de largeur 400 mm





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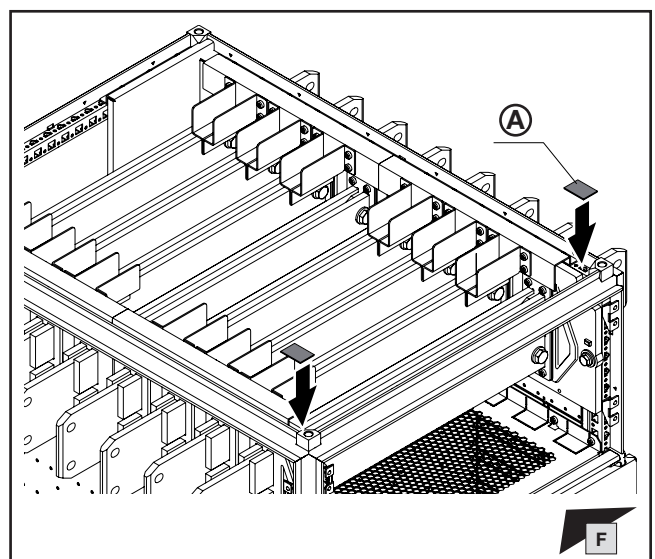
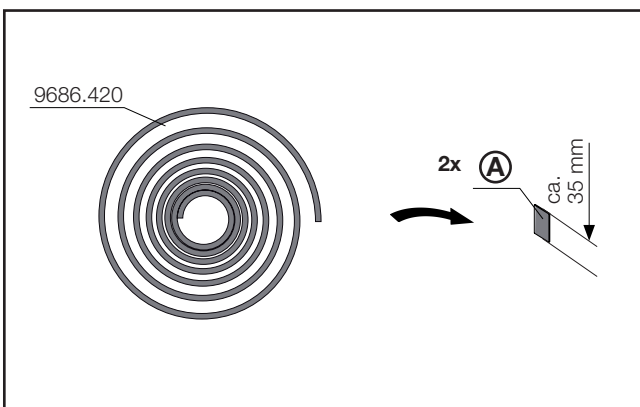
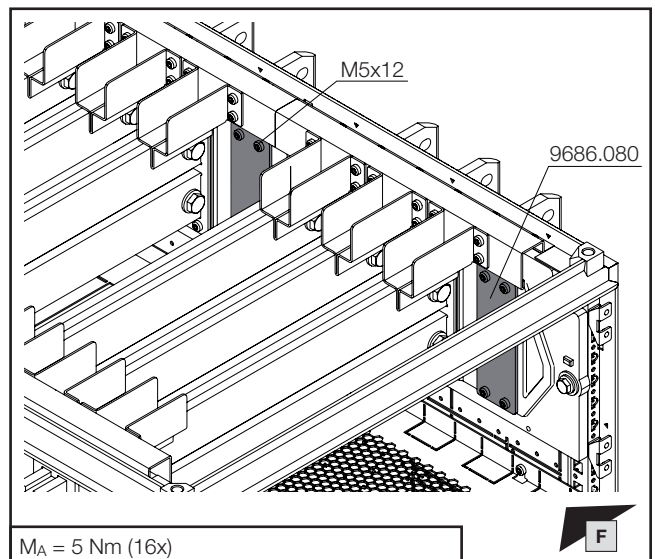
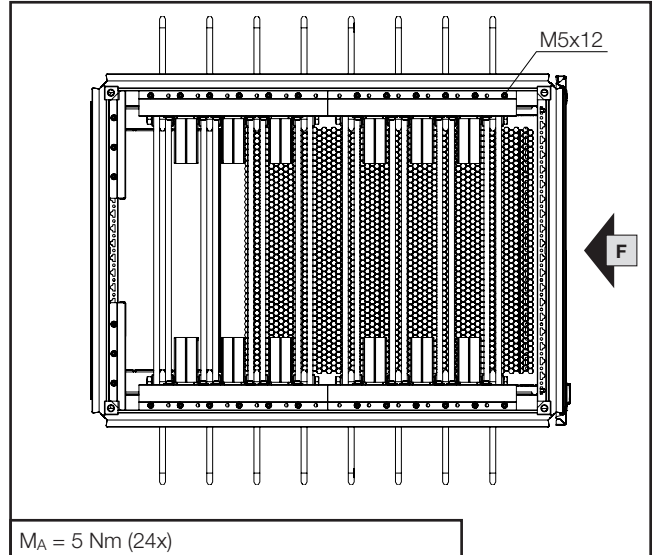
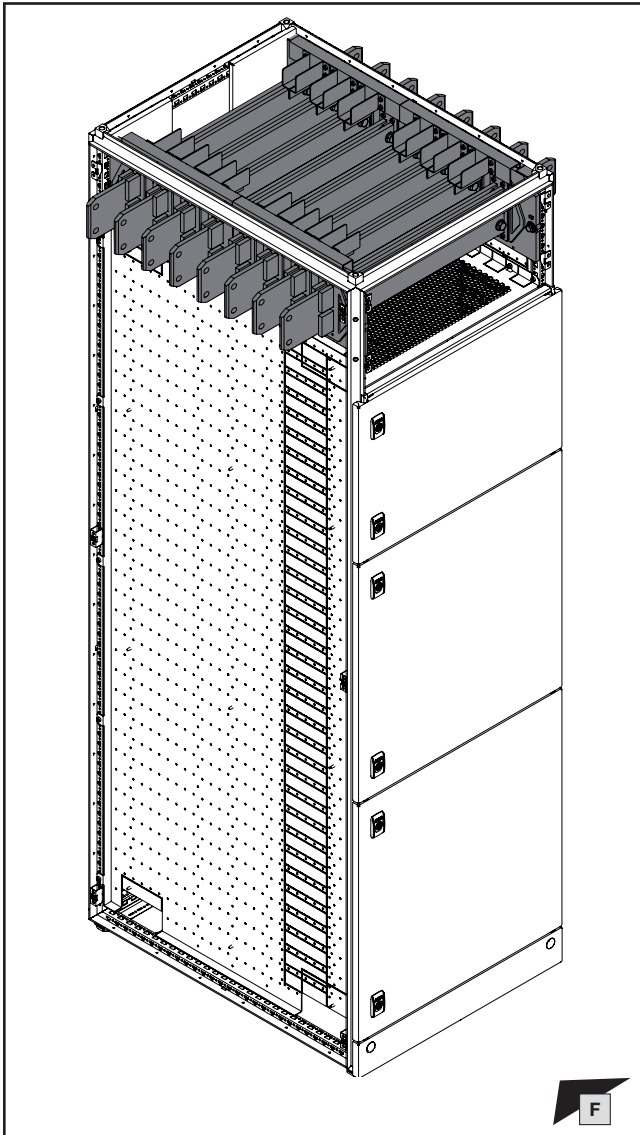
12. Schutzeigenschaft Störlichtbogenklasse B

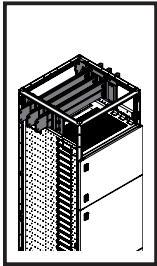
12. Protection property Arcing class B

12. Propriété de protection arc électrique de catégorie B



- 12.5 Besonderheiten Dachbereich 3- und 4-poliges Sammel-schienensystem 6300 A
- 12.5 Special features of roof section, 3- and 4-pole busbar system 6300 A
- 12.5 Particularités zone toit – jeu de barres tripolaire et tétrapolaire 6300 A





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12. Schutzeigenschaft Störlichtbogenklasse B

12. Protection property Arcing class B

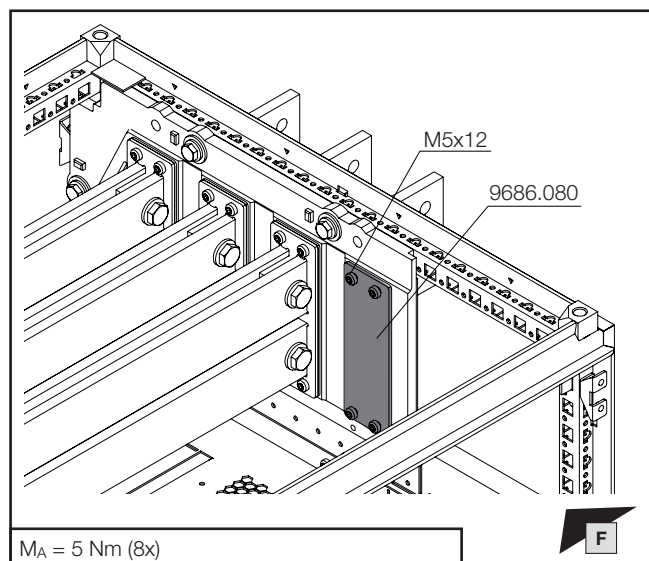
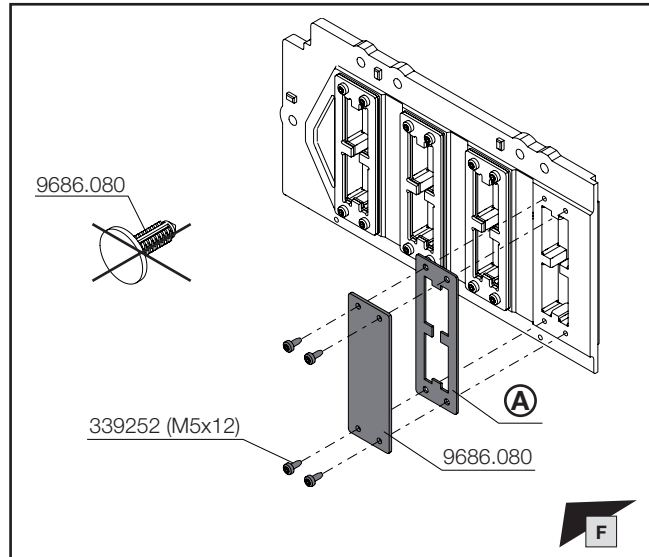
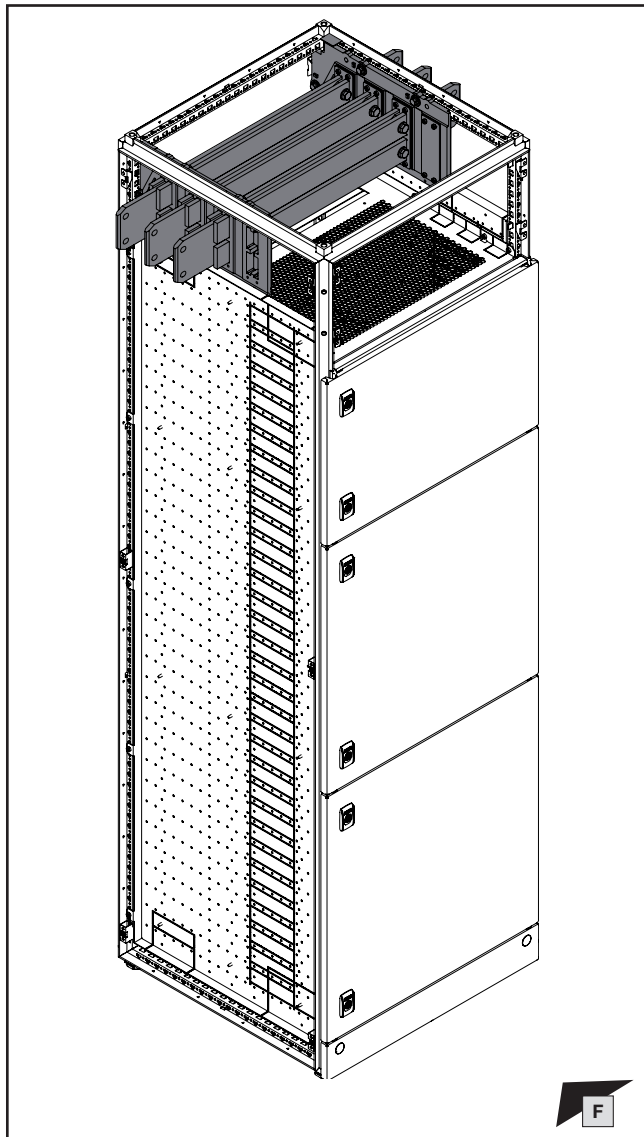
12. Propriété de protection arc électrique de catégorie B



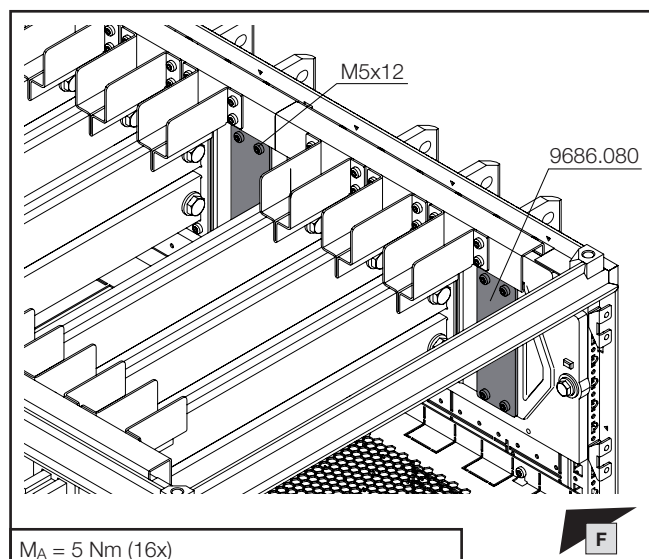
12.6 Besonderheiten Dachbereich 3-polige Sammelschienen-systeme

12.6 Special features of roof section, 3-pole busbar systems

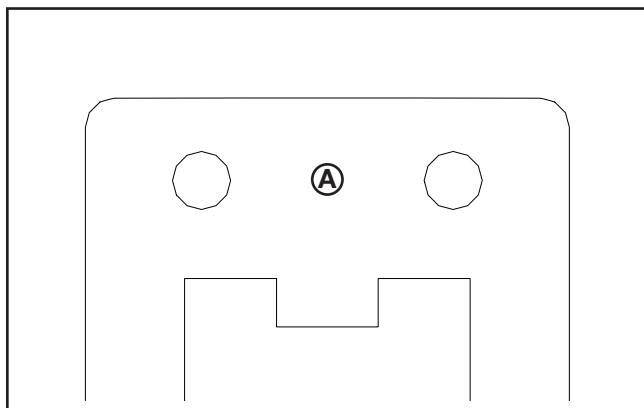
12.6 Particularités zone toit - jeux de barres tripolaires

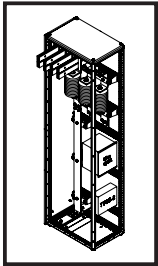


$M_A = 5 \text{ Nm (8x)}$



$M_A = 5 \text{ Nm (16x)}$





13. Schutzeigenschaft Störlichtbogenklasse C

13. Protection property Arcing class C

13. Propriété de protection arc électrique de catégorie C

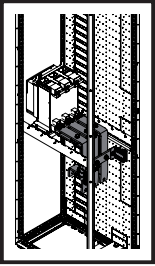


- 13.1 Aktives Störlichtbogensystem DEHNshort
 13.1 Active arc fault protection system DEHNshort
 13.1 Système de protection actif DEHNshort contre les arcs électriques



**Montagehinweise zum aktiven Störlichtbogen-
 schutz für VX25 Ri4Power (DEHNshort)**
**Notes for the assembly of the VX25 Ri4Power
 active accidental arc protection (DEHNshort)**





14. Flachanschluss für ACB Leistungsschalter

14. Flat-type screw terminal for air circuit-breakers (ACB)

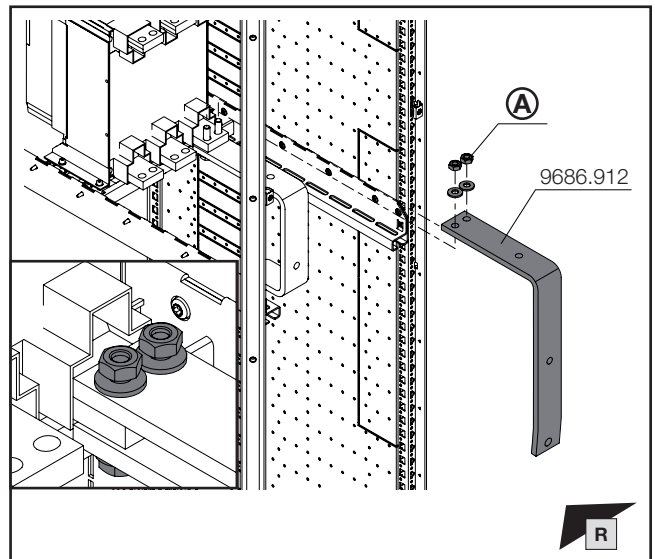
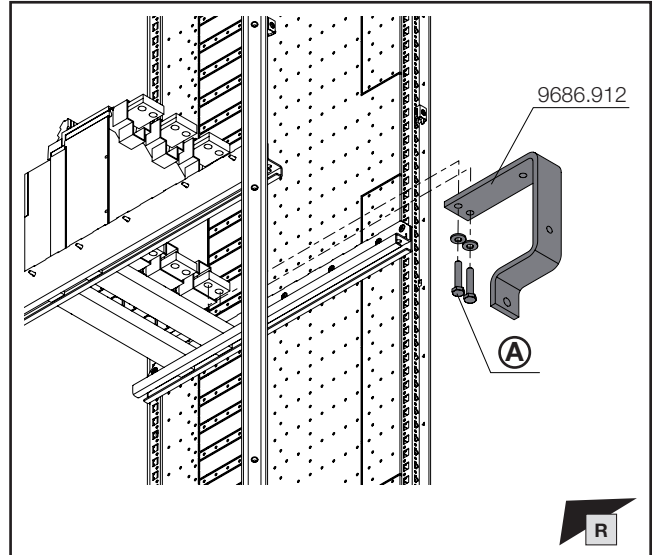
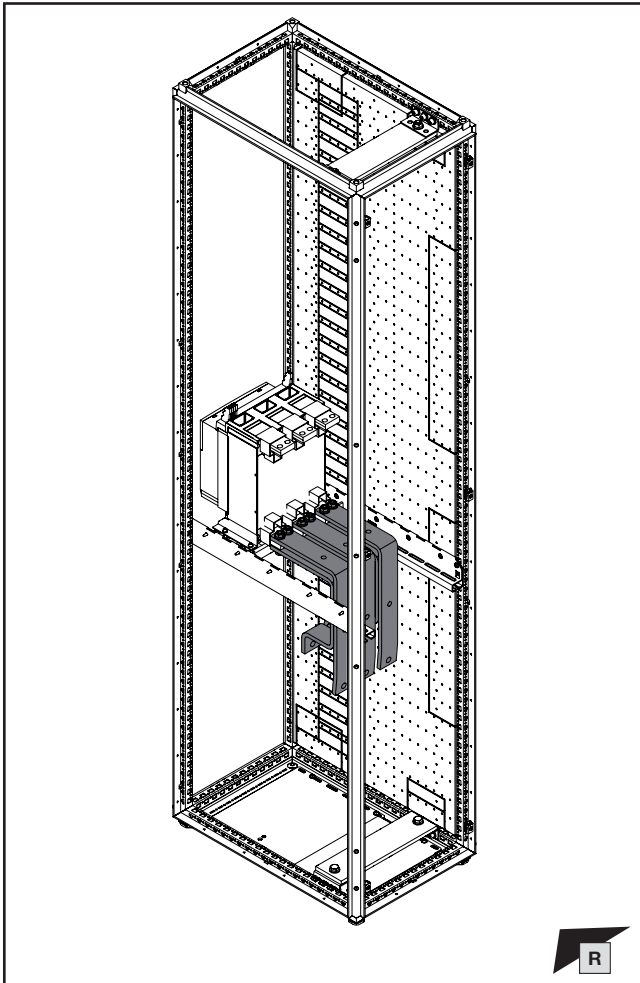
14. Raccordement plat pour disjoncteurs de puissance ACB



14.1 Montage des Leistungsschalters – unterer Verbindungs-
satz

14.1 Fitting the circuit-breaker – Lower connector kit

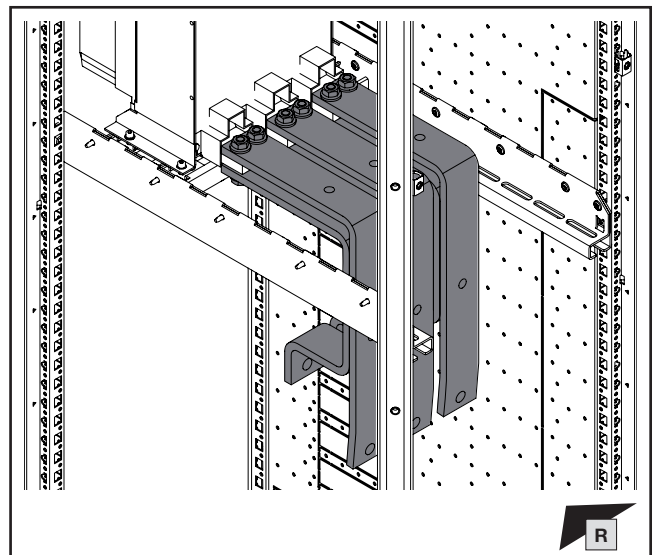
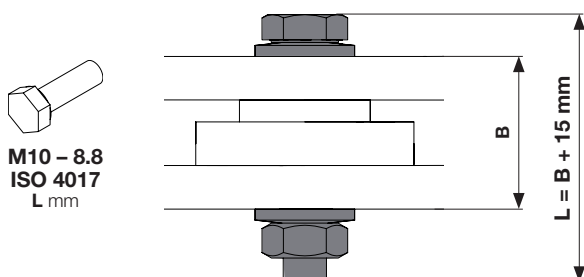
14.1 Montage du disjoncteur de puissance – kit de jonction
inférieur

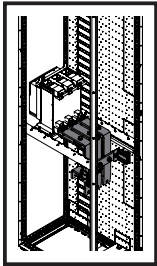


Hinweis / Note / Remarque (A)

Auswahl Befestigungsschrauben gemäß Hersteller
des ACB!
Selection of fastening screws in accordance with the
manufacturer of the ACB!
Choix des vis de fixation en fonction du fabricant du
disjoncteur de puissance ouvert !

(X) Schraubenlänge L / Screw length L / Longueur de vis L





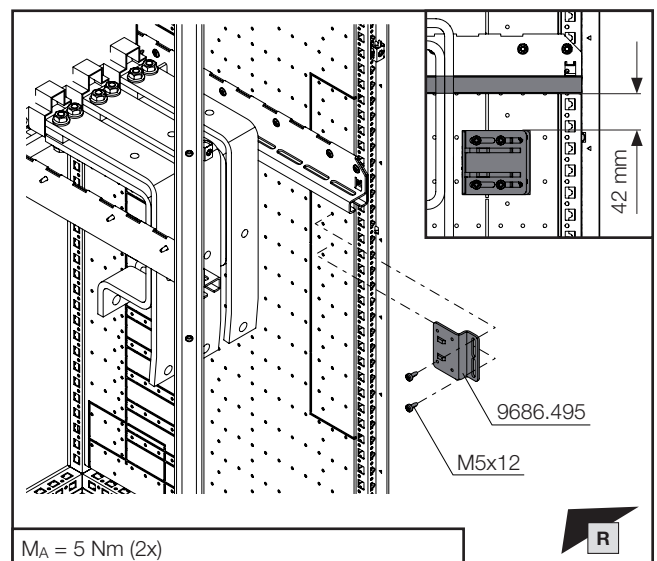
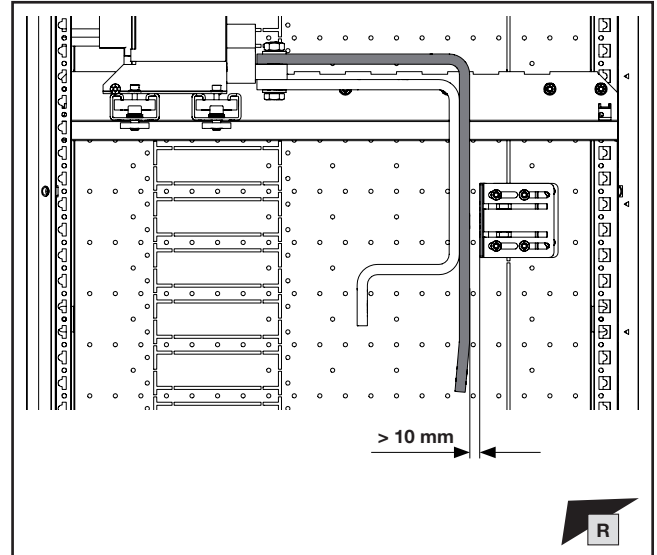
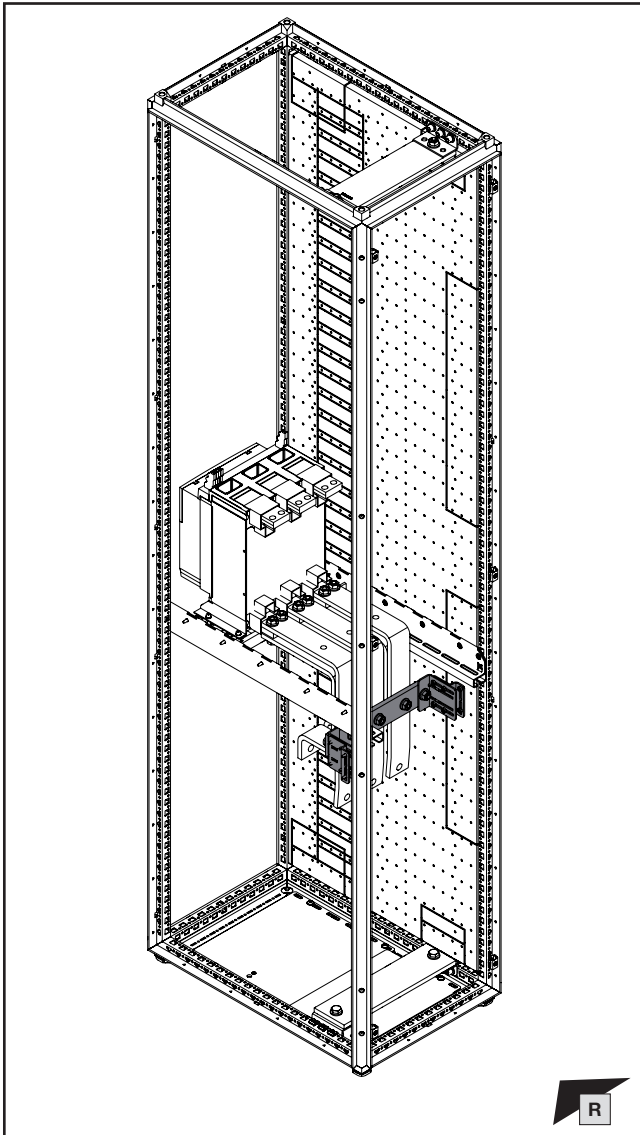
14. Flachanschluss für ACB Leistungsschalter 14. Flat-type screw terminal for air circuit-breakers (ACB) 14. Raccordement plat pour disjoncteurs de puissance ACB



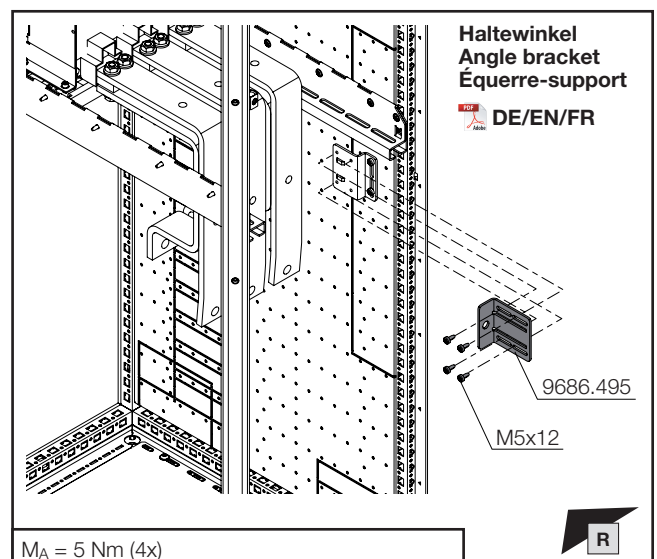
14.1 Montage des Leistungsschalters – unterer Verbindungs-
satz

14.1 Fitting the circuit-breaker – Lower connector kit

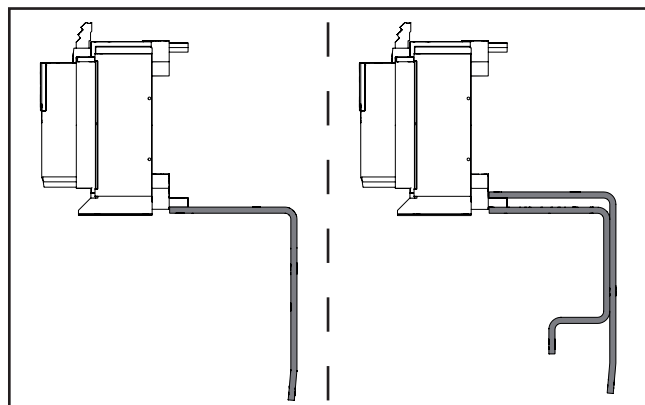
14.1 Montage du disjoncteur de puissance – kit de jonction
inférieur

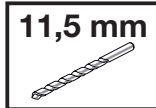
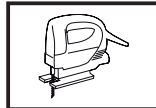
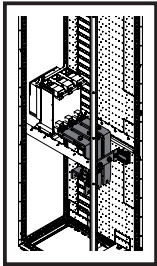


$M_A = 5 \text{ Nm (2x)}$



$M_A = 5 \text{ Nm (4x)}$





14. Flachanschluss für ACB Leistungsschalter

14. Flat-type screw terminal for air circuit-breakers (ACB)

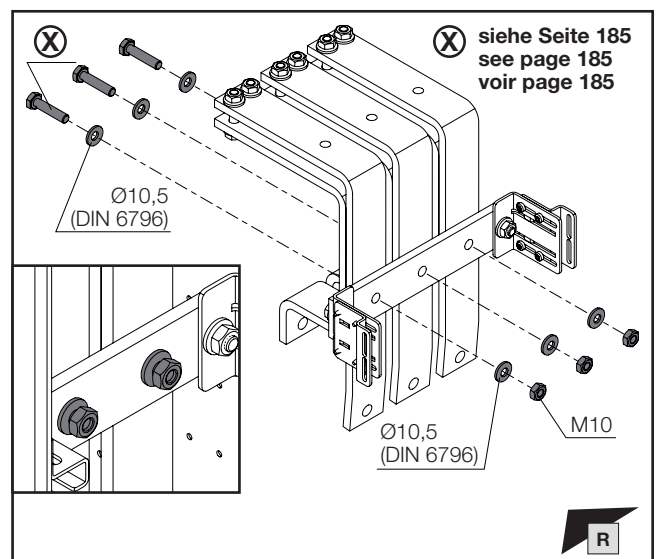
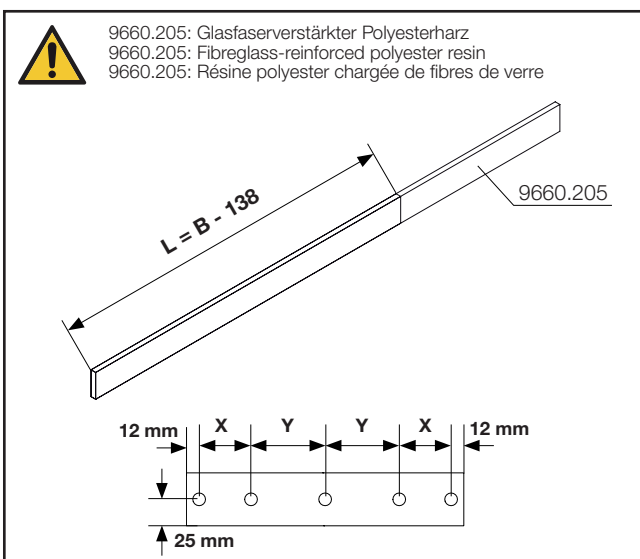
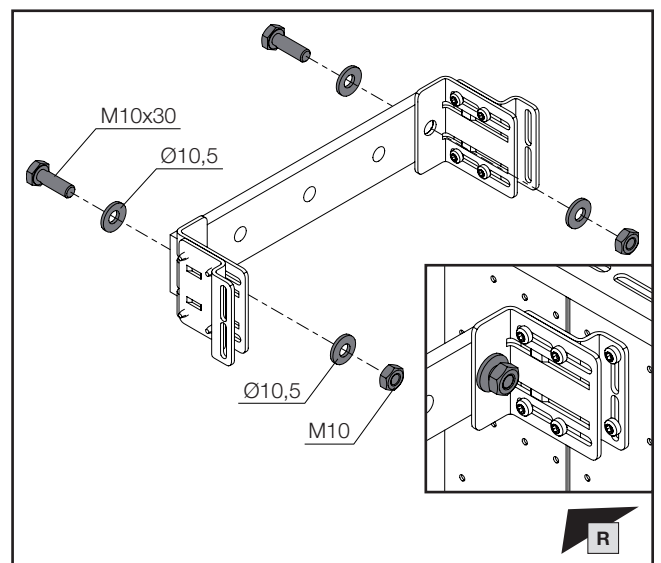
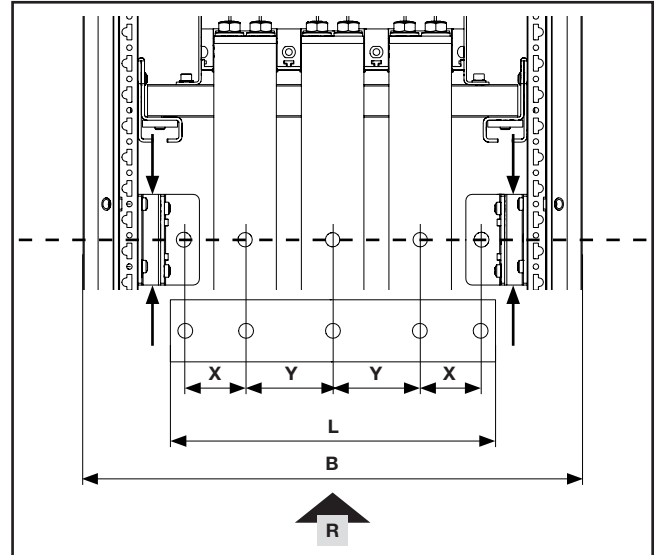
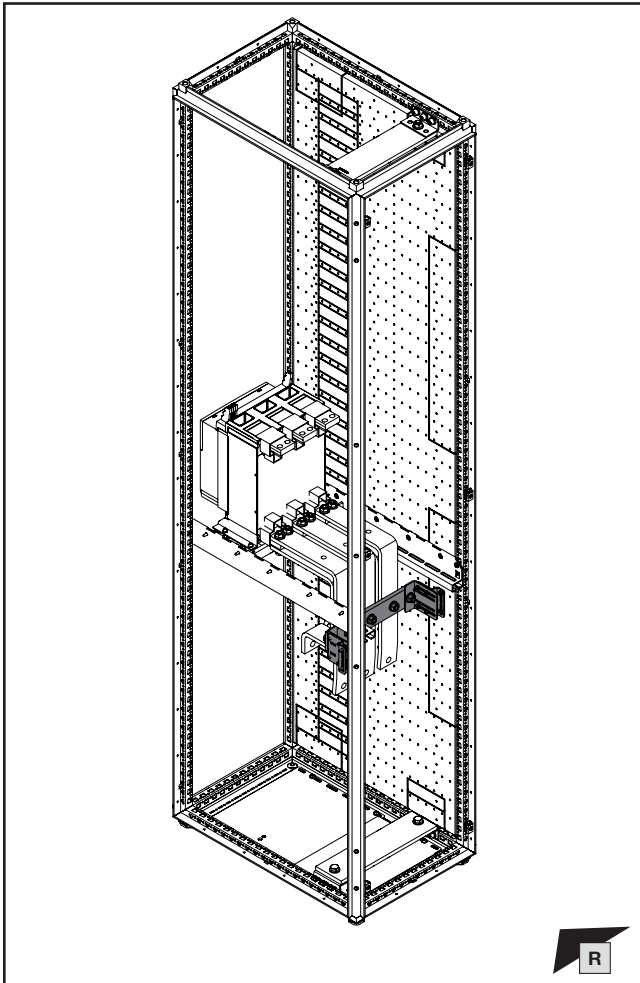
14. Raccordement plat pour disjoncteurs de puissance ACB

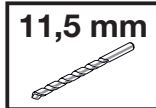
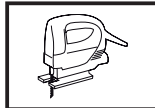
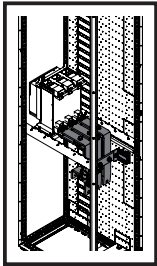


14.1 Montage des Leistungsschalters – unterer Verbindungs-
satz

14.1 Fitting the circuit-breaker – Lower connector kit

14.1 Montage du disjoncteur de puissance – kit de jonction
inférieur





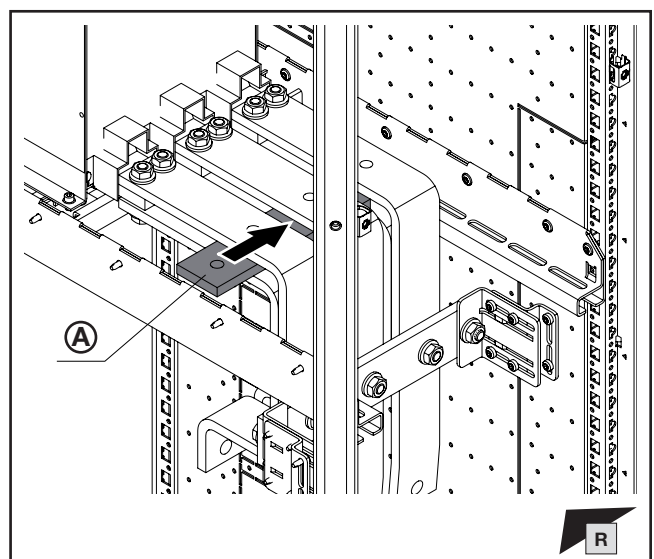
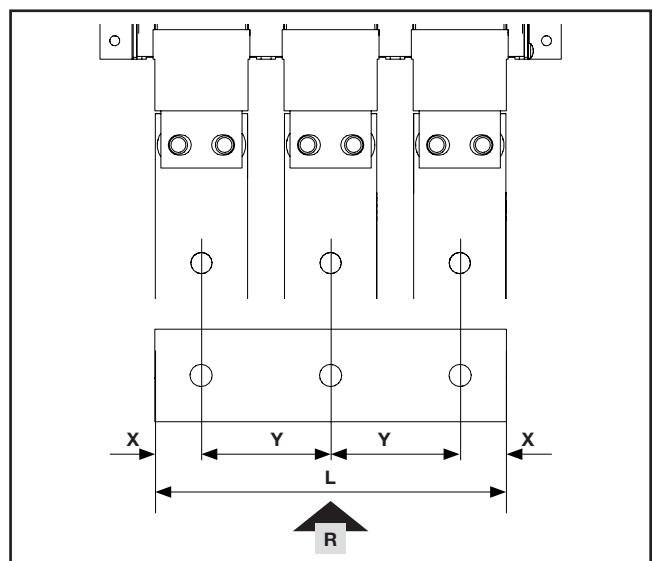
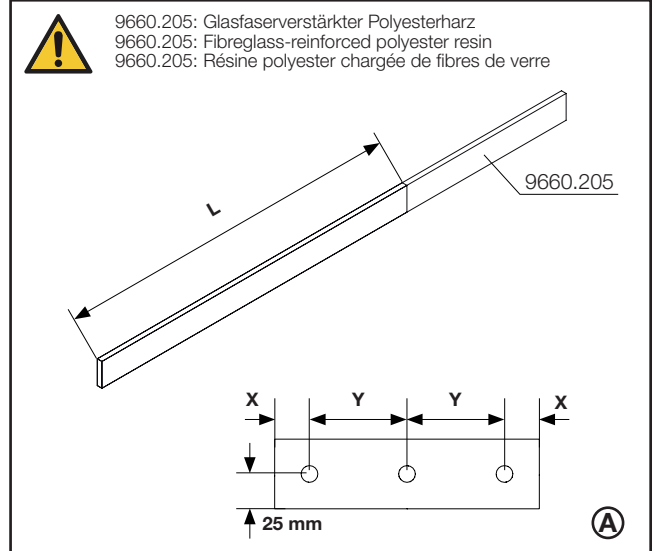
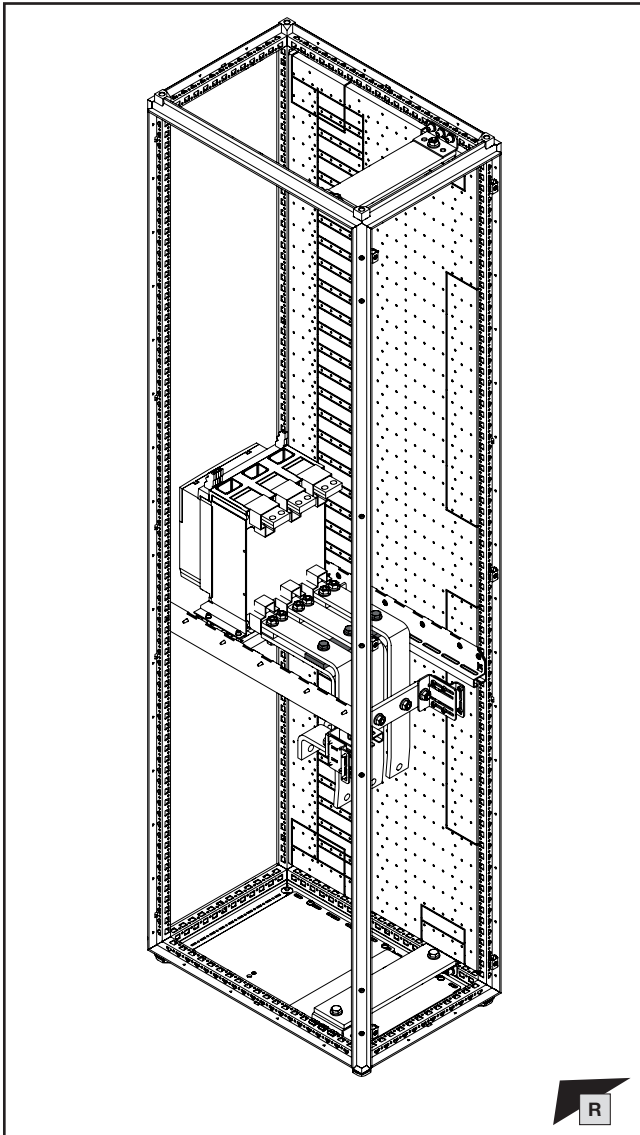
14. Flachanschluss für ACB Leistungsschalter 14. Flat-type screw terminal for air circuit-breakers (ACB) 14. Raccordement plat pour disjoncteurs de puissance ACB

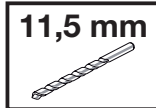
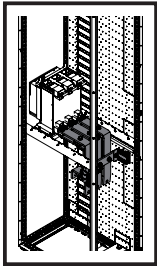


14.1 Montage des Leistungsschalters – unterer Verbindungs-
satz

14.1 Fitting the circuit-breaker – Lower connector kit

14.1 Montage du disjoncteur de puissance – kit de jonction
inférieur

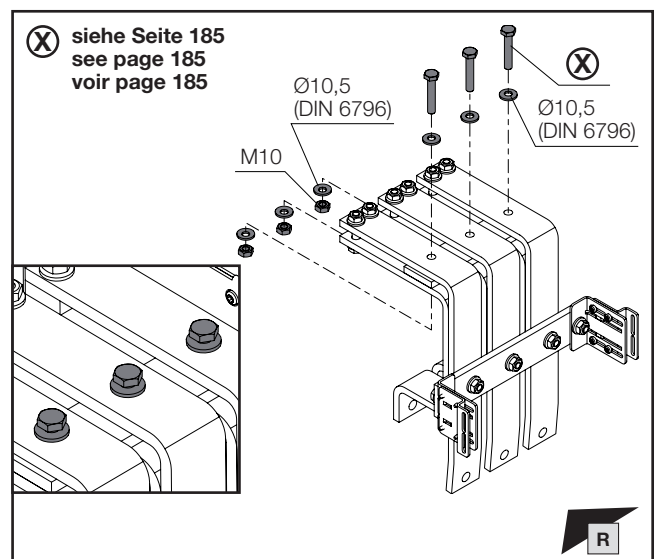
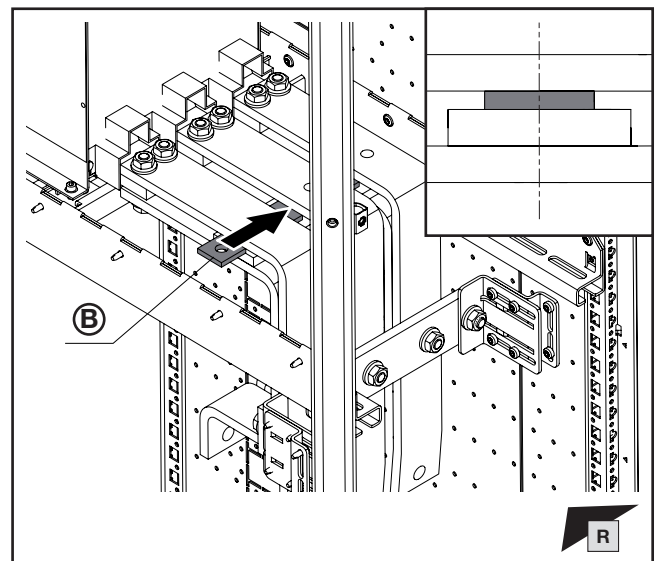
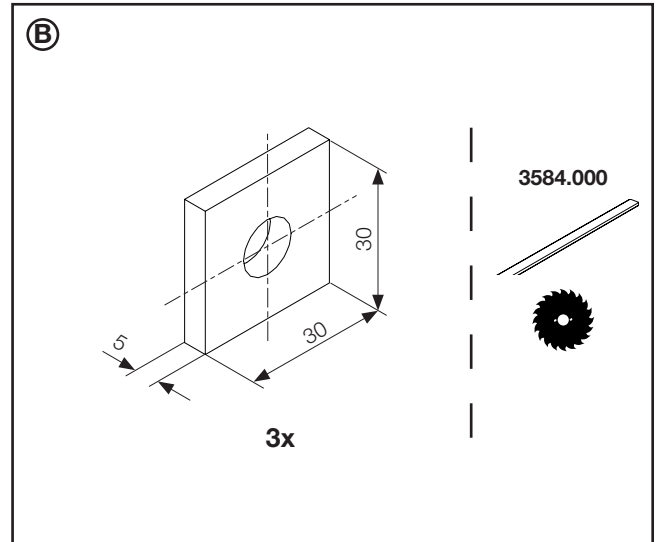
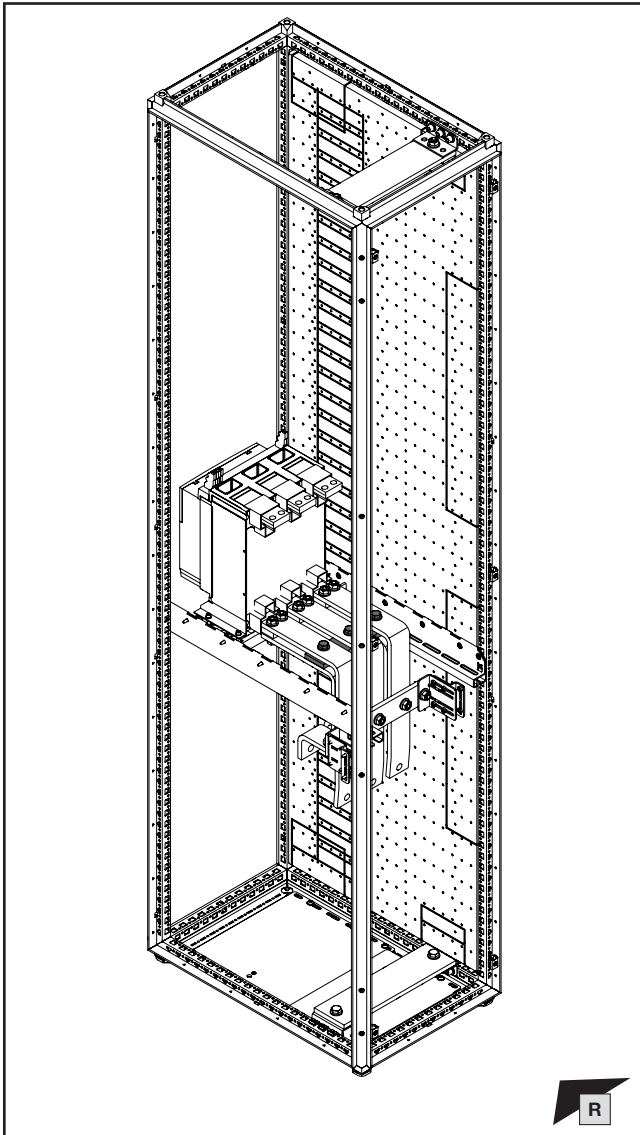


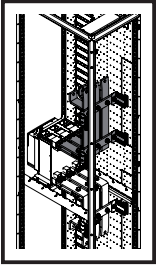


14. Flachanschluss für ACB Leistungsschalter 14. Flat-type screw terminal for air circuit-breakers (ACB) 14. Raccordement plat pour disjoncteurs de puissance ACB



- 14.1 Montage des Leistungsschalters – unterer Verbindungs-
satz
14.1 Fitting the circuit-breaker – Lower connector kit
14.1 Montage du disjoncteur de puissance – kit de jonction
inférieur





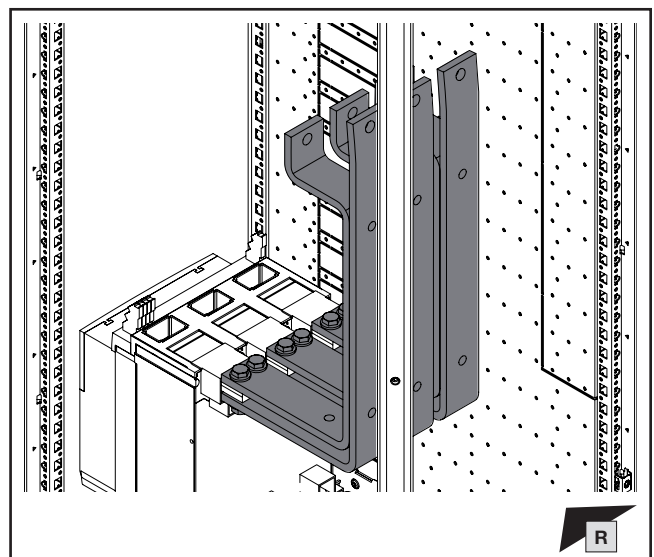
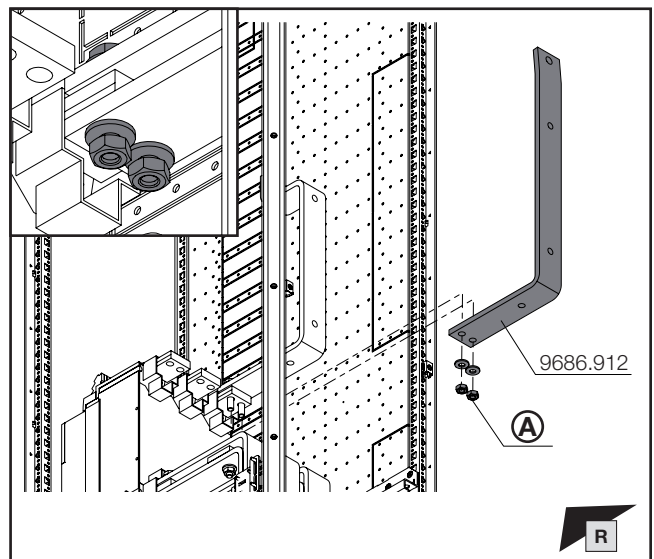
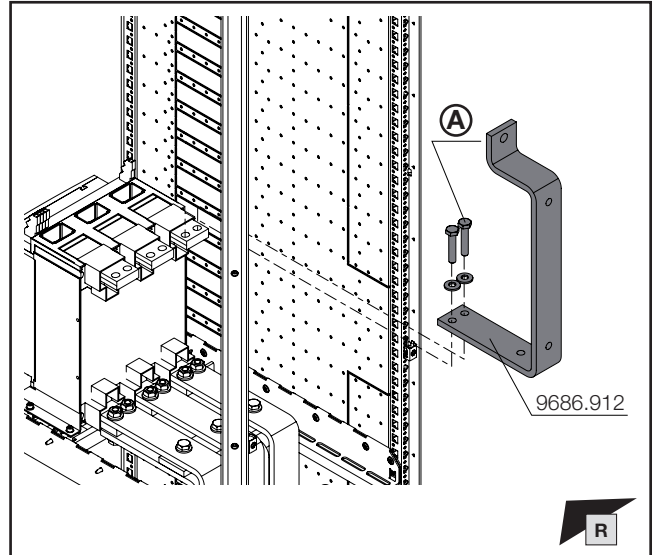
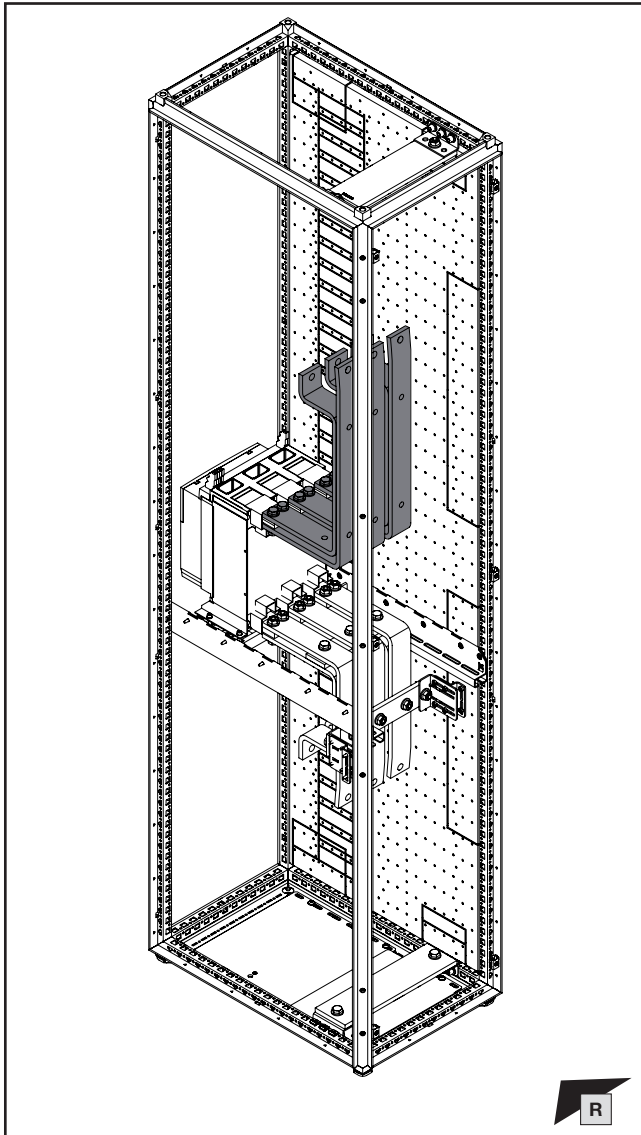
14. Flachanschluss für ACB Leistungsschalter 14. Flat-type screw terminal for air circuit-breakers (ACB) 14. Raccordement plat pour disjoncteurs de puissance ACB



14.2 Montage des Leistungsschalters – oberer Verbindungs-
satz

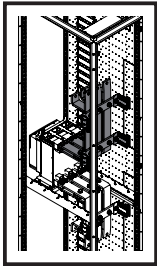
14.2 Fitting the circuit-breaker – Upper connector kit

14.2 Montage du disjoncteur de puissance – kit de jonction
supérieur



Hinweis / Note / Remarque **A**

Auswahl Befestigungsschrauben gemäß Hersteller
des ACB!
Selection of fastening screws in accordance with the
manufacturer of the ACB!
Choix des vis de fixation en fonction du fabricant du
disjoncteur de puissance !



TX30



SW16/
SW17



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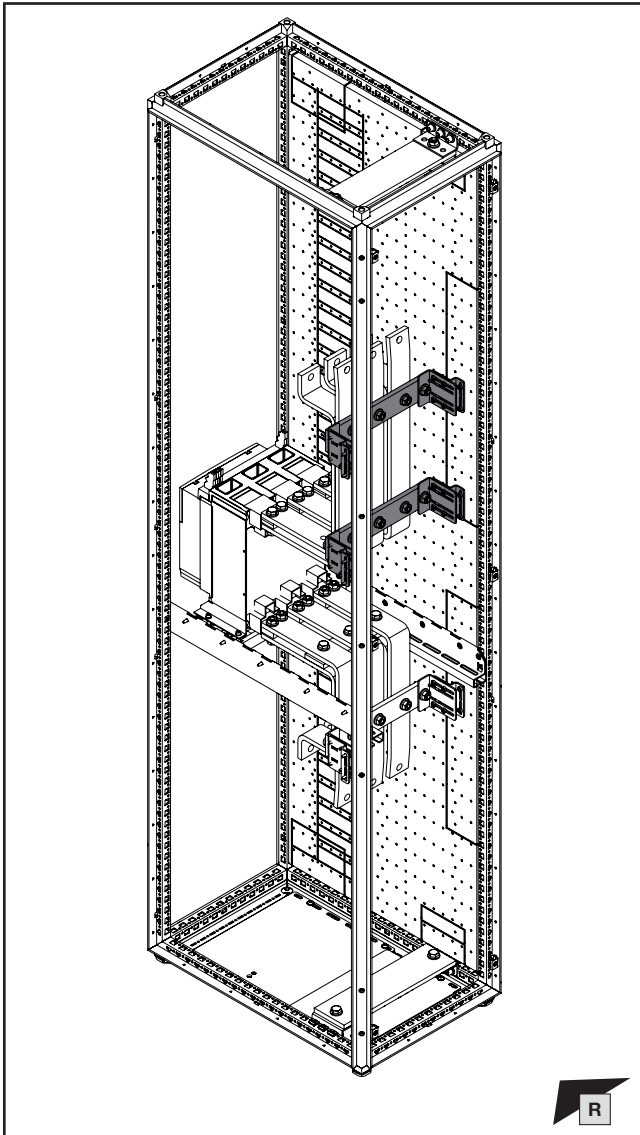
14. Flachanschluss für ACB Leistungsschalter 14. Flat-type screw terminal for air circuit-breakers (ACB) 14. Raccordement plat pour disjoncteurs de puissance ACB



14.2 Montage des Leistungsschalters – oberer Verbindungs-
satz

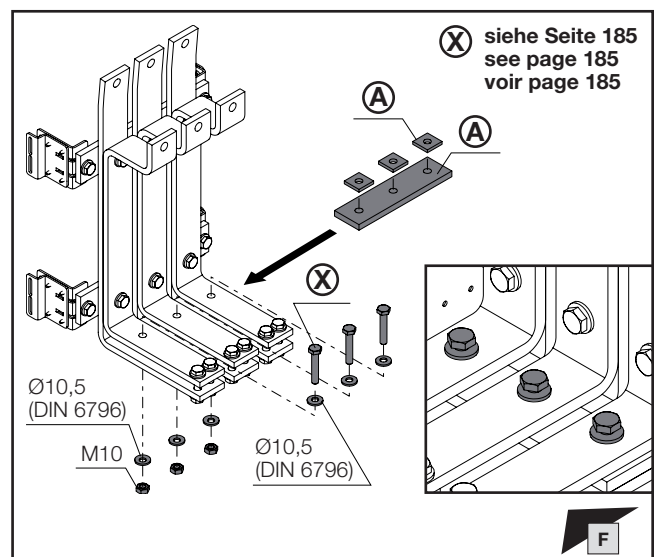
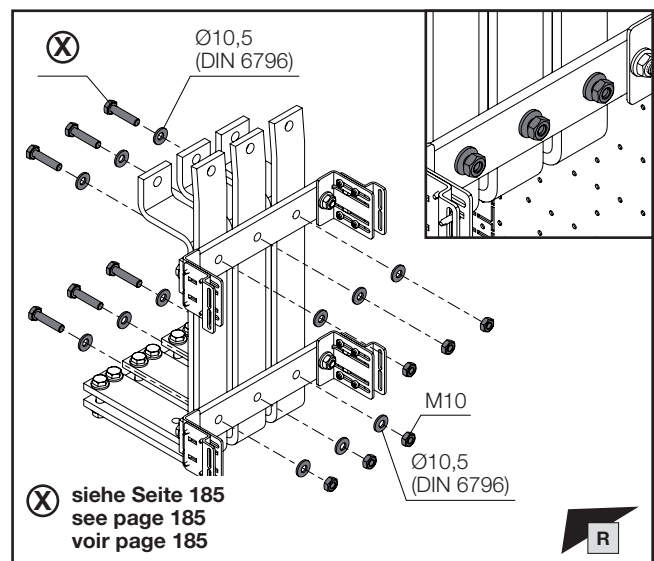
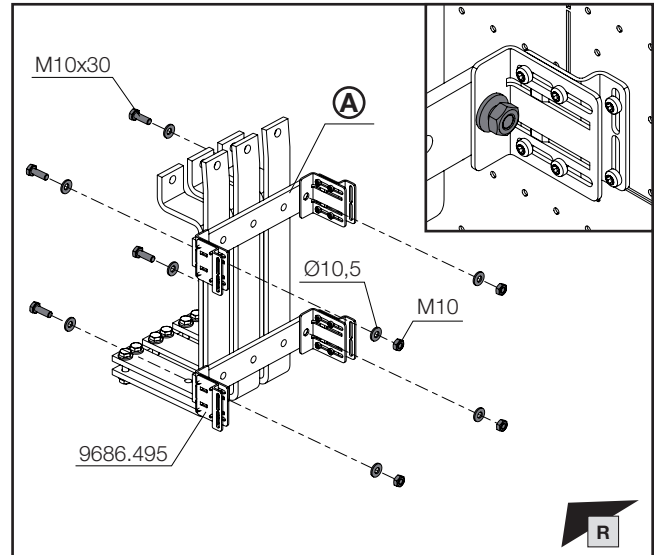
14.2 Fitting the circuit-breaker – Upper connector kit

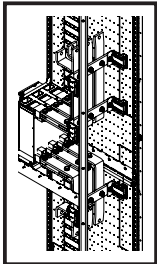
14.2 Montage du disjoncteur de puissance – kit de jonction
supérieur



Hinweis / Note / Remarque **(A)**

Bemaßung und Vorbereitung der Stabilisierungstreifen sowie der Distanzstücke analog Kapitel 14.1.
Dimensioning and preparation of the stabilisation strips and spacers analogous to chapter 14.1.
Dimensions et préparation des bandes de stabilisation ainsi que des entretoises comme au chapitre 14.1.





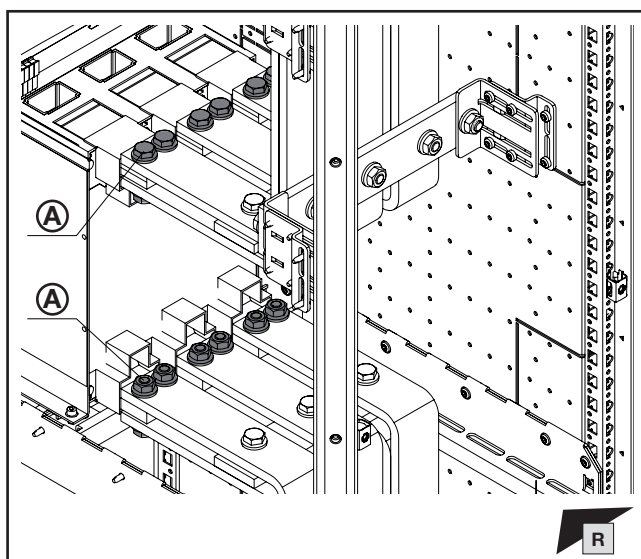
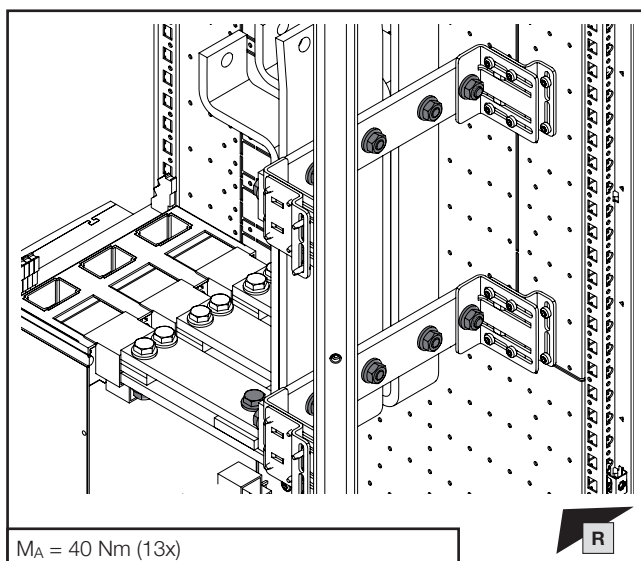
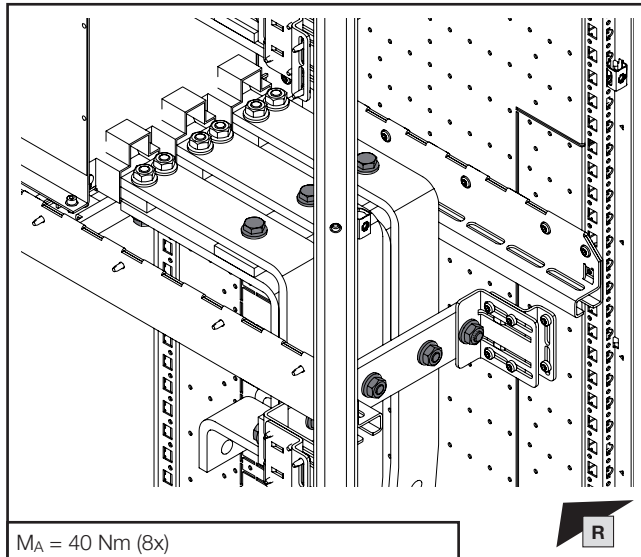
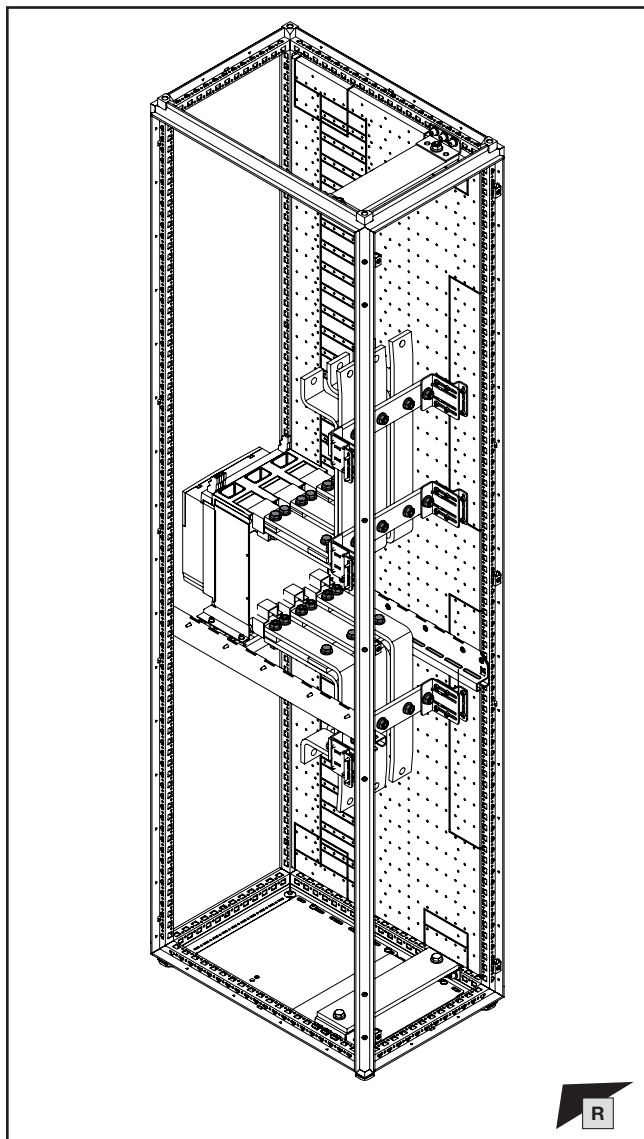
SW16/
SW17

DE EN FR

14. Flachanschluss für ACB Leistungsschalter 14. Flat-type screw terminal for air circuit-breakers (ACB) 14. Raccordement plat pour disjoncteurs de puissance ACB



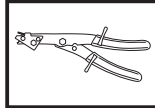
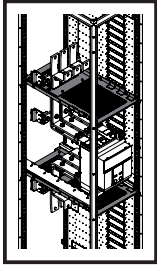
14.3 Anziehen der Schrauben
14.3 Tightening the screws
14.3 Serrage des vis



Hinweis / Note / Remarque **(A)**

Drehmoment Befestigungsschrauben gemäß Hersteller des ACB!

Tightening torque of the fastening screws in accordance with the manufacturer of the ACB!
Couple de serrage des vis de fixation en fonction du fabricant du disjoncteur de puissance !



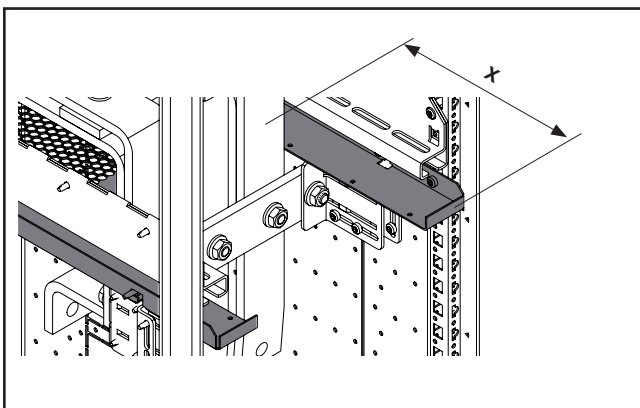
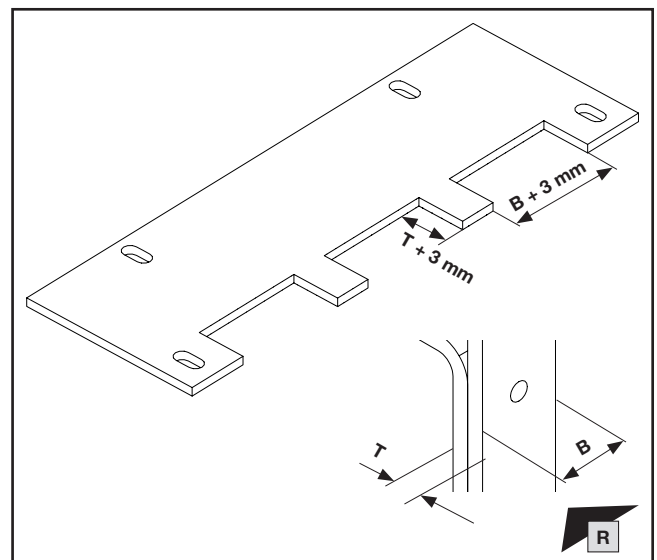
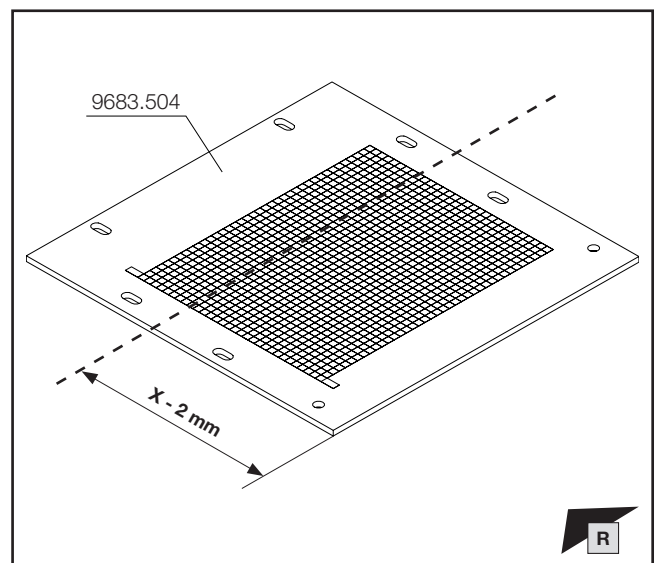
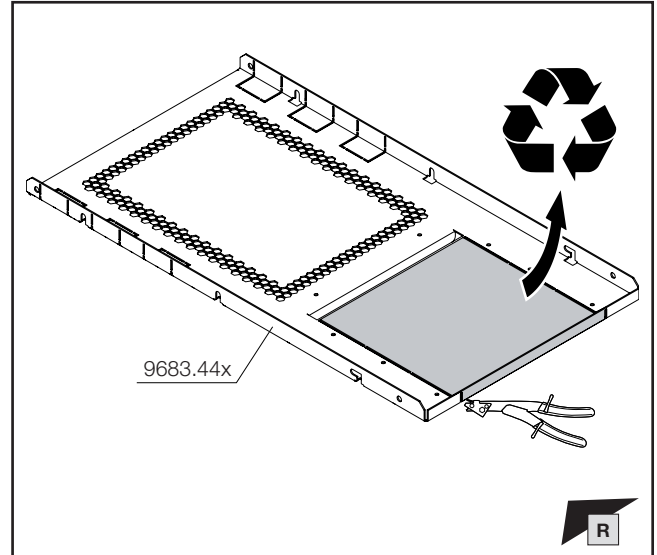
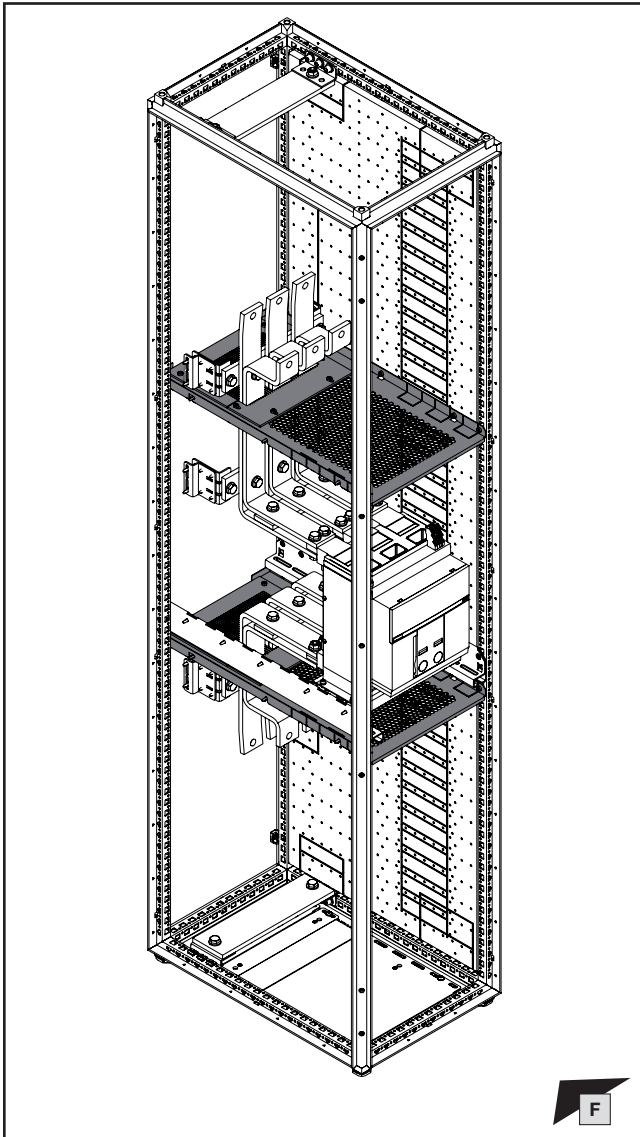
14. Flachanschluss für ACB Leistungsschalter

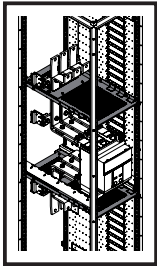
14. Flat-type screw terminal for air circuit-breakers (ACB)

14. Raccordement plat pour disjoncteurs de puissance ACB



14.4 Montage Funktionsraumteiler
14.4 Fitting the compartment divider
14.4 Montage du séparateur de compartiment fonctionnel





TX30

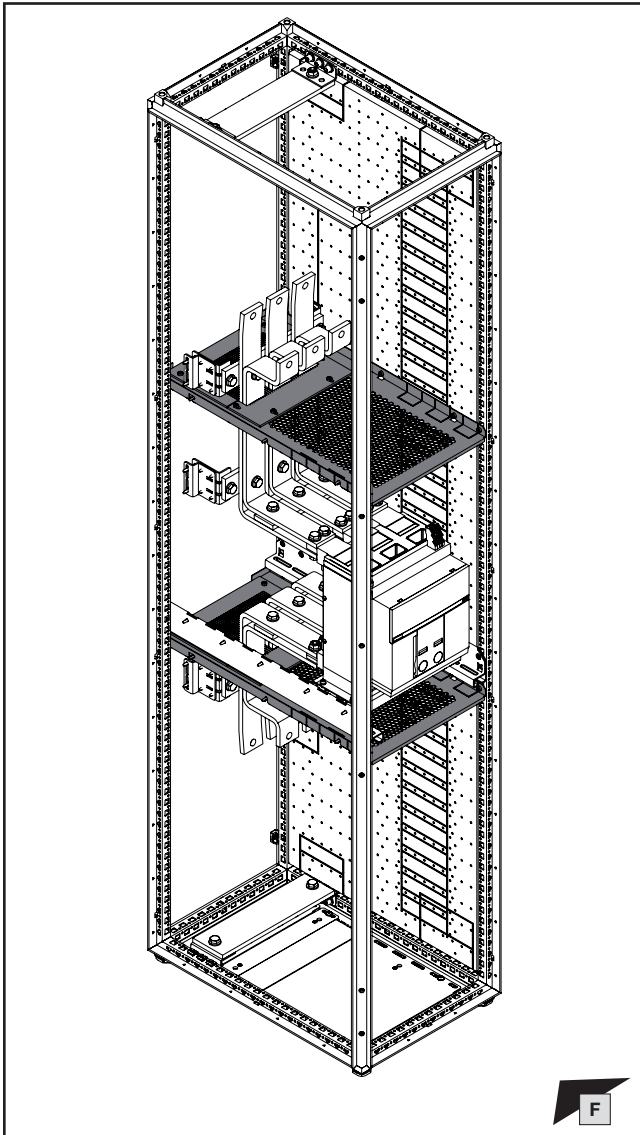


DE EN FR

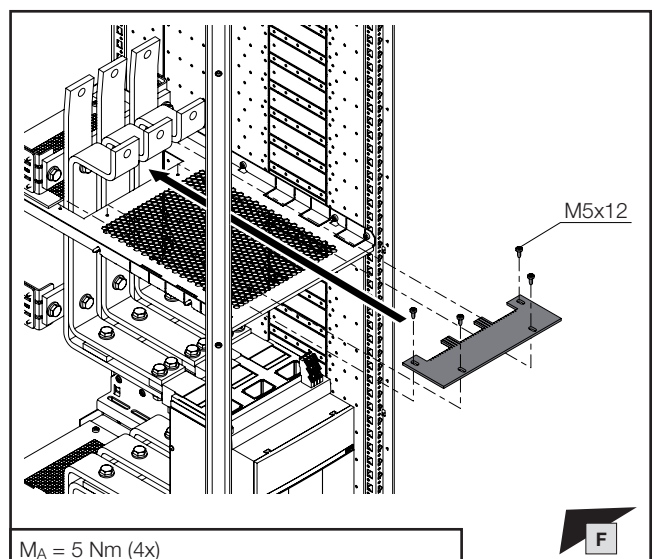
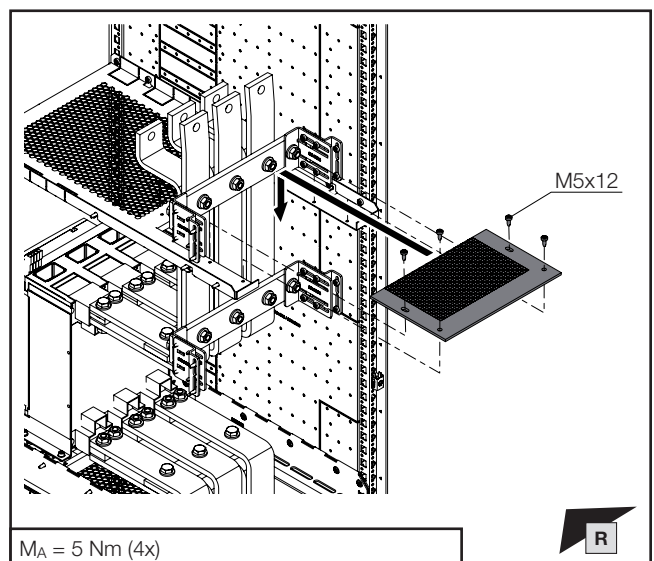
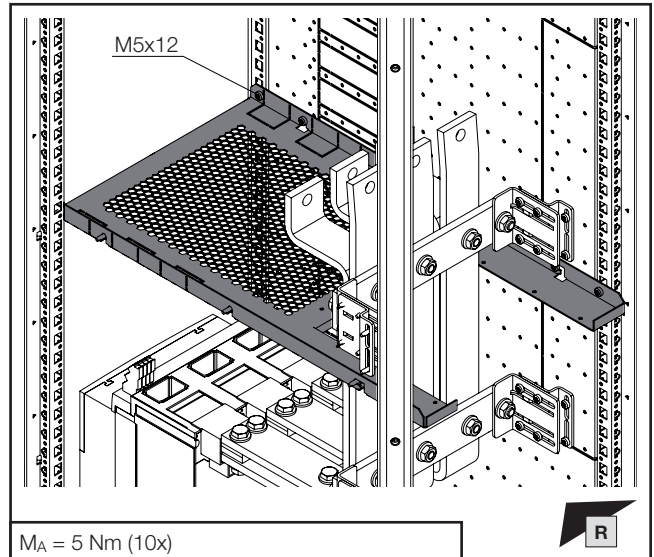
14. Flachanschluss für ACB Leistungsschalter 14. Flat-type screw terminal for air circuit-breakers (ACB) 14. Raccordement plat pour disjoncteurs de puissance ACB

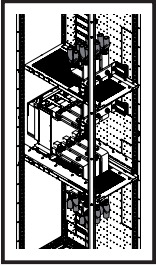


14.4 Montage Funktionsraumteiler
 14.4 Fitting the compartment divider
 14.4 Montage du séparateur de compartiment fonctionnel



F





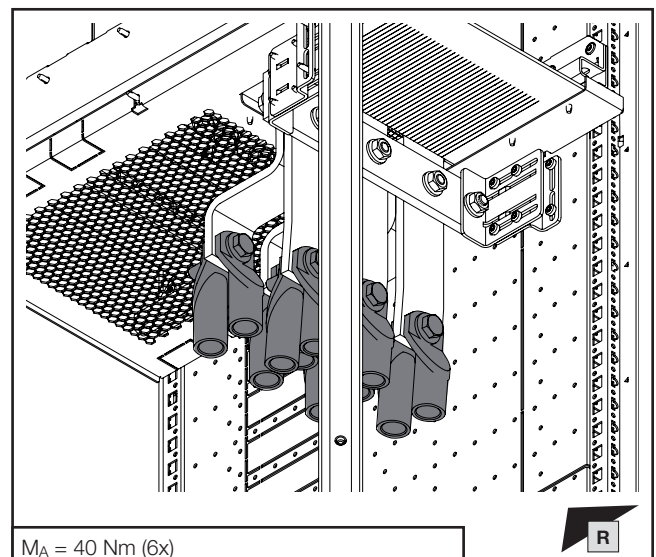
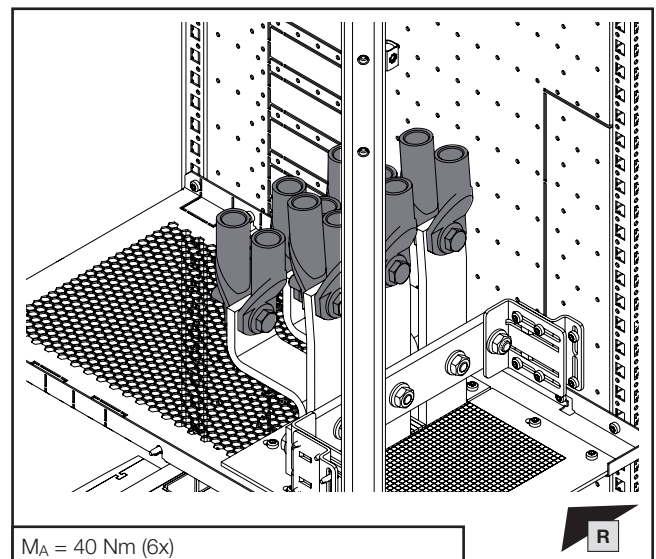
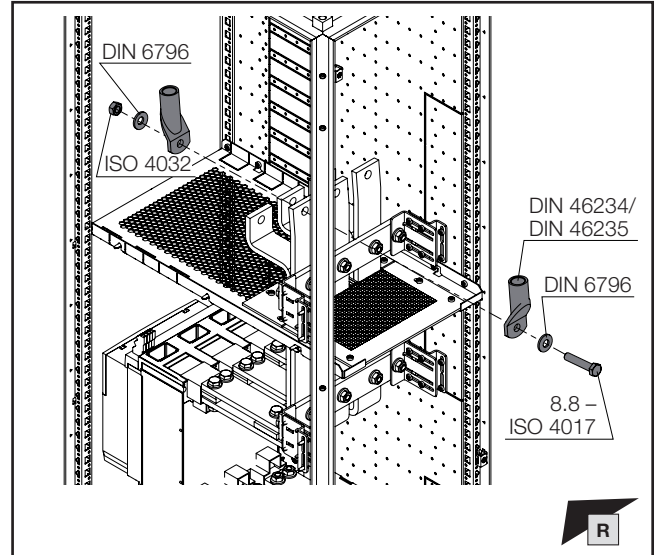
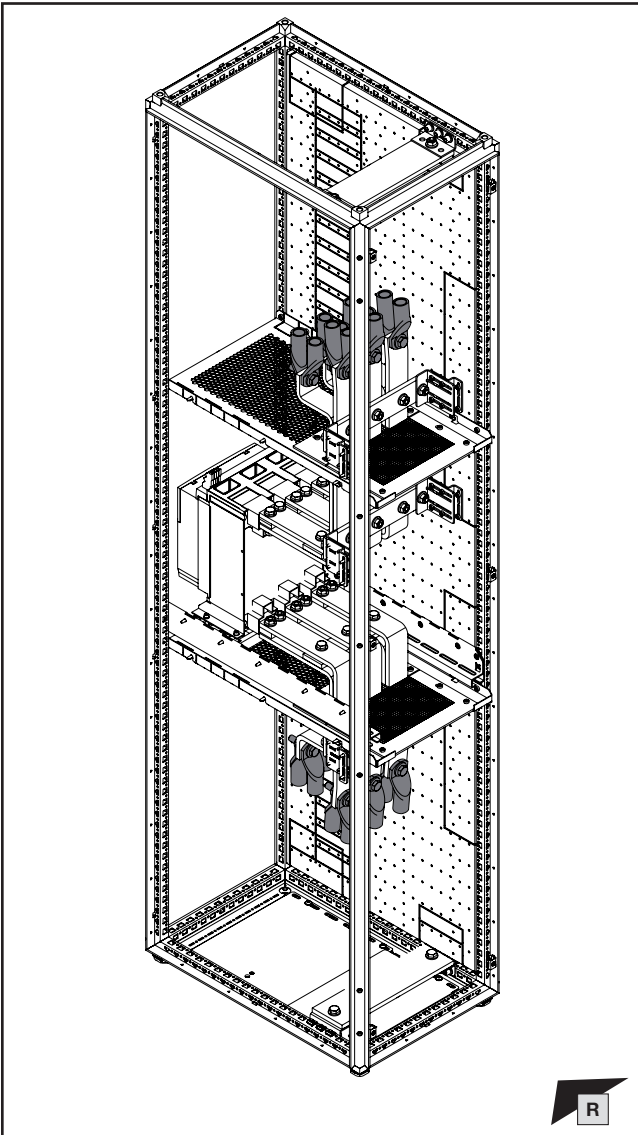
14. Flachanschluss für ACB Leistungsschalter

14. Flat-type screw terminal for air circuit-breakers (ACB)

14. Raccordement plat pour disjoncteurs de puissance ACB

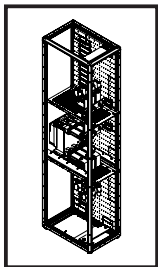


14.5 Montage Kabelschuhe
14.5 Fitting the ring terminals
14.5 Montage des cosses de câbles



Hinweis / Note / Remarque

Bestückung mit Kabelschuhen je nach Einbausituation (dargestellt: Vollbestückung).
Population with ring terminals according to the installation situation (shown here: fully populated)
Équipement avec cosses de câbles selon l'installation (croquis avec équipement complet)



TX30



11,5 mm



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14. Flachanschluss für ACB Leistungsschalter

14. Flat-type screw terminal for air circuit-breakers (ACB)

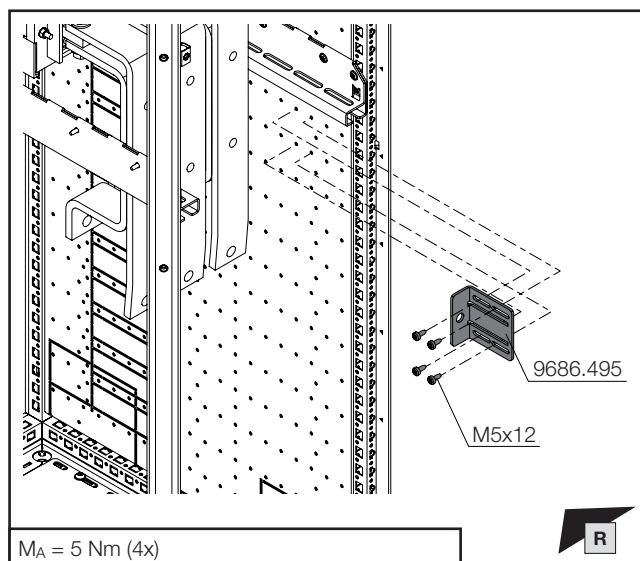
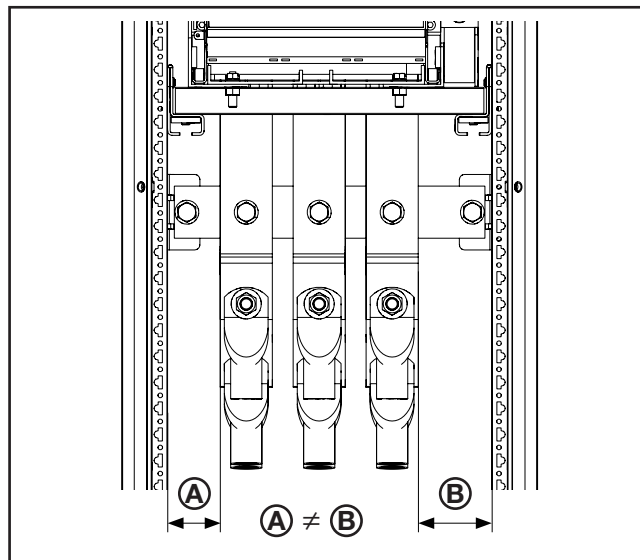
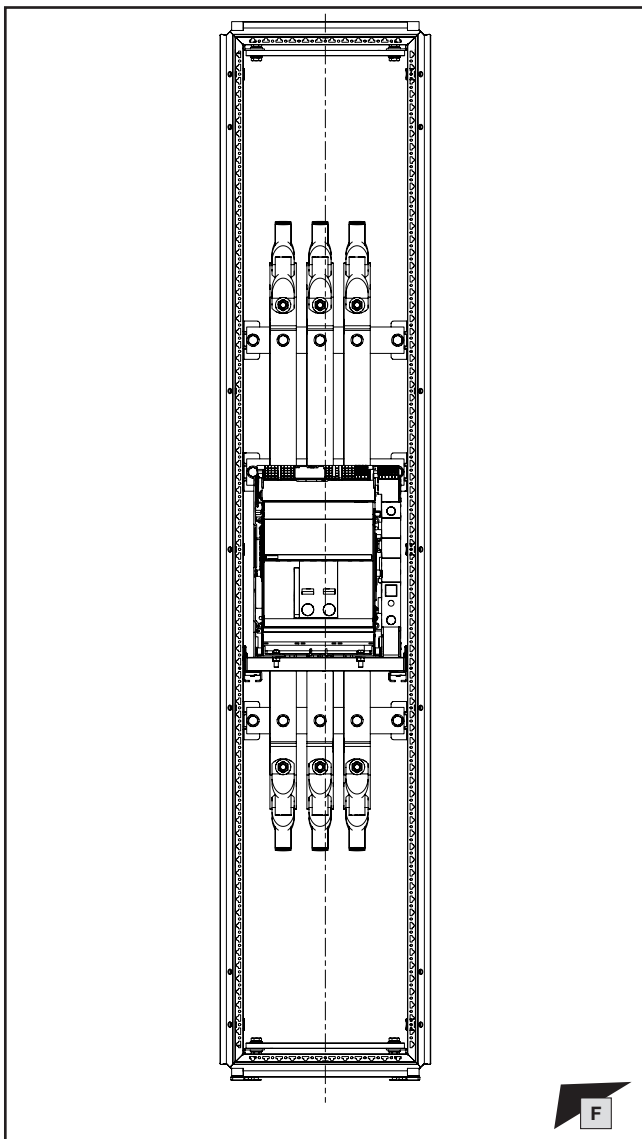
14. Raccordement plat pour disjoncteurs de puissance ACB



14.6 Asymmetrisch montierter ACB Leistungsschalter

14.6 Air circuit-breakers (ACB) fitted asymmetrically

14.6 Disjoncteurs de puissance ACB monté de manière asymétrique

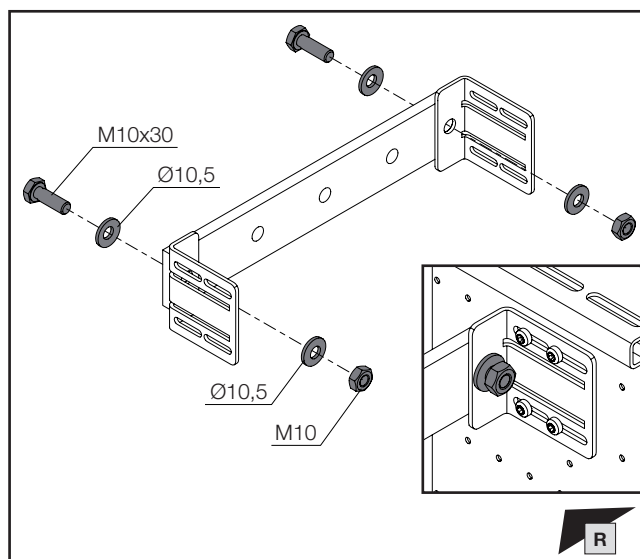
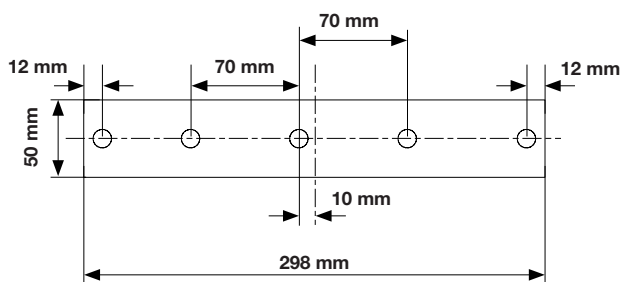


$M_A = 5 \text{ Nm (4x)}$

R



9660.205: Glasfaserverstärkter Polyesterharz
9660.205: Fibreglass-reinforced polyester resin
9660.205: Résine polyester chargée de fibres de verre



R



15. Werkzeuge

15. Tools

15. Outils

Schraubendreher isoliert
Screwdrivers insulated
Tournevis isolés



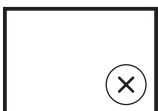
Für Schlitzschrauben
For slot-head screws
Pour vis à tête fendue

Abtrieb Blade tip Empreinte	Klinge (Breite x Stärke) mm Blade (width x thickness) mm Lame (largeur x épaisseur) mm	Klingenlänge mm Blade length mm Longueur de lame mm	Klingen-Ø mm Blade dia. mm Ø lame mm	Grifflänge mm Handle length mm Longueur du manche mm	Griff-Ø mm Handle dia. mm Diamètre du manche mm	Best.-Nr. Model No. Référence
SL	3 x 0,5	100	3,5	105	25	4052.101
SL	3,5 x 0,6	100	3,5	105	25	4052.102
SL	4 x 0,8	100	4	105	25	4052.104
SL	5,5 x 1	125	5,5	115	27	4052.106
SL	6,5 x 1,2	125	6,5	115	27	4052.107



Für Pozidriv-Kreuzschlitz
For Pozidriv screws
Pour vis cruciformes Pozidriv

Abtrieb Blade tip Empreinte	Klinge (Breite x Stärke) mm Blade (width x thickness) mm Lame (largeur x épaisseur) mm	Klingenlänge mm Blade length mm Longueur de lame mm	Klingen-Ø mm Blade dia. mm Ø lame mm	Grifflänge mm Handle length mm Longueur du manche mm	Griff-Ø mm Handle dia. mm Diamètre du manche mm	Best.-Nr. Model No. Référence
PZ 1	–	80	4,5	105	25	4052.121
PZ 2	–	100	6	115	27	4052.122



Für Phillips-Kreuzschlitz
For Phillips-head screws
Pour vis cruciformes Phillips

Abtrieb Blade tip Empreinte	Klinge (Breite x Stärke) mm Blade (width x thickness) mm Lame (largeur x épaisseur) mm	Klingenlänge mm Blade length mm Longueur de lame mm	Klingen-Ø mm Blade dia. mm Ø lame mm	Grifflänge mm Handle length mm Longueur du manche mm	Griff-Ø mm Handle dia. mm Diamètre du manche mm	Best.-Nr. Model No. Référence
PH 1	–	80	4,5	105	25	4052.131
PH 2	–	100	6	115	27	4052.132

Für Plus/Minus
For plus/minus
Pour vis Plus/Moins

Abtrieb Blade tip Empreinte	Klinge (Breite x Stärke) mm Blade (width x thickness) mm Lame (largeur x épaisseur) mm	Klingenlänge mm Blade length mm Longueur de lame mm	Klingen-Ø mm Blade dia. mm Ø lame mm	Grifflänge mm Handle length mm Longueur du manche mm	Griff-Ø mm Handle dia. mm Diamètre du manche mm	Best.-Nr. Model No. Référence
Z 1	–	80	4,5	105	25	4052.141
Z 2	–	100	6	115	27	4052.142

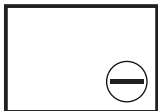


15. Werkzeuge

15. Tools

15. Outils

Schraubendreher unisoliert
Screwdrivers uninsulated
Tournevis non isolés



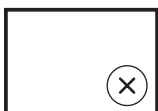
Für Schlitzschrauben
For slot-head screws
Pour vis à tête fendue

Abtrieb Blade tip Empreinte	Klinge (Breite x Stärke) mm Blade (width x thickness) mm Lame (largeur x épaisseur) mm	Klingenlänge mm Blade length mm Longueur de lame mm	Klingen-Ø mm Blade dia. mm Ø lame mm	Grifflänge mm Handle length mm Longueur du manche mm	Griff-Ø mm Handle dia. mm Diamètre du manche mm	Best.-Nr. Model No. Référence
SL	2,5 x 0,4	75	2,5	86	25	4052.001
SL	3,5 x 0,6	100	3,5	86	25	4052.003
SL	4 x 0,8	100	4	94	30	4052.004
SL	5,5 x 1	150	5	101	33	4052.007
SL	6,5 x 1,2	150	6	106	36	4052.011
SL	8 x 1,2	175	7	112	39	4052.014
SL	5,5 x 1	25	5	60	21	4052.018



Für Pozidriv-Kreuzschlitz
For Pozidriv screws
Pour vis cruciformes Pozidriv

Abtrieb Blade tip Empreinte	Klinge (Breite x Stärke) mm Blade (width x thickness) mm Lame (largeur x épaisseur) mm	Klingenlänge mm Blade length mm Longueur de lame mm	Klingen-Ø mm Blade dia. mm Ø lame mm	Grifflänge mm Handle length mm Longueur du manche mm	Griff-Ø mm Handle dia. mm Diamètre du manche mm	Best.-Nr. Model No. Référence
PZ 1	–	80	4,5	94	30	4052.021
PZ 2	–	100	6	106	36	4052.022



Für Phillips-Kreuzschlitz
For Phillips-head screws
Pour vis cruciformes Phillips

Abtrieb Blade tip Empreinte	Klinge (Breite x Stärke) mm Blade (width x thickness) mm Lame (largeur x épaisseur) mm	Klingenlänge mm Blade length mm Longueur de lame mm	Klingen-Ø mm Blade dia. mm Ø lame mm	Grifflänge mm Handle length mm Longueur du manche mm	Griff-Ø mm Handle dia. mm Diamètre du manche mm	Best.-Nr. Model No. Référence
PH 1	–	80	4,5	94	30	4052.031
PH 2	–	100	6	106	36	4052.032
PH 2	–	25	6	60	21	4052.038



Für Torx
For multi-tooth screws
Pour vis Torx

Abtrieb Blade tip Empreinte	Klinge (Breite x Stärke) mm Blade (width x thickness) mm Lame (largeur x épaisseur) mm	Klingenlänge mm Blade length mm Longueur de lame mm	Klingen-Ø mm Blade dia. mm Ø lame mm	Grifflänge mm Handle length mm Longueur du manche mm	Griff-Ø mm Handle dia. mm Diamètre du manche mm	Best.-Nr. Model No. Référence
TX 10	–	100	3,5	86	25	4052.053
TX 15	–	100	4	94	30	4052.054
TX 20	–	100	5	101	33	4052.055
TX 25	–	100	5	106	36	4052.056
TX 30	–	115	6	112	39	4052.058



15. Werkzeuge

15. Tools

15. Outils

Winkelschlüssel-Set für Innensechskantschrauben
Hex wrench set for Allen screws
Kit clés coudées pour vis à six pans creux



**Best.-Nr.
Model No.
Référence**

4052.480

Elektrikerschere
Electrician's scissors
Ciseaux d'électricien



Für Kabel-Ø mm
For cable diameters mm
Pour diamètres de câbles mm

Länge mm
Length mm
Longueur mm

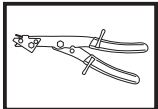
**Best.-Nr.
Model No.
Référence**

0,1 - 3,7

160

4054.700

Trennstegschneider
Cross member cutter
Dispositif de coupe pour traverse de séparation



Passend für Best.-Nr.
To fit Model No.
Pour référence(s)

Länge mm
Length mm
Longueur mm

Ausführung
Design
Modèle

**Best.-Nr.
Model No.
Référence**

9683.006/9683.008/
9683.016/9683.018/
9683.036/9683.038/
9680.005/9680.025/
9680.207/9680.227/
9683.406/9683.408/
9683.426/9683.428/
9683.444/9683.446/
9683.448/9683.464/
9683.466/9683.468/
9683.484/9683.486/
9683.488

280

gerade
straight
droit

4054.870

Kombizange
Combination pliers
Pince universelle



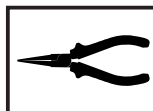
Länge mm
Length mm
Longueur mm

**Best.-Nr.
Model No.
Référence**

180

4054.800

Spitzzange
Needle-nose pliers
Pince pointue



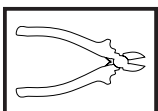
Länge mm
Length mm
Longueur mm

**Best.-Nr.
Model No.
Référence**

200

4054.850

Seitenschneider für Kupfer- und Aluminiumleiter
Side cutter for copper and aluminium conductors
Pince coupante pour câbles en cuivre et aluminium.



Für Kabel-Ø mm
For cable diameters mm
Pour diamètres de câbles mm

Länge mm
Length mm
Longueur mm

Ausführung
Design
Modèle

**Best.-Nr.
Model No.
Référence**

0,2 - 11

160

gerade
straight
droit

4054.600



16. Ersatzteile 16. Spare parts 16. Pièces de rechange

DE

Eine aktuelle Übersicht finden Sie auf www.rittal.de.

EN

A current overview is available at www.rittal.com.

FR

Une version actualisée de cette notice est disponible sur le site internet www.rittal.fr.



17. Garantie 17. Warranty 17. Garantie

DE

Es gelten die in den Verkaufs- und Lieferbedingungen der jeweiligen Rittal Vertriebs- und Tochtergesellschaften genannten Bedingungen.

EN

The conditions named in the sales and delivery conditions of the associated Rittal agents and subsidiaries apply.

FR

Les conditions générales de vente des représentations et filiales Rittal sont contractuelles.



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Headquarters Germany
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Phone +49(0)2772 505-1855
Fax +49(0)2772 505-1850
E-mail: service@rittal.de

Service-HUB USA
Service HUB USA
Plateforme de service aux États-Unis
RITTAL Corporation
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Phone +1 800 477 4000, option 3
E-mail: service@rittal.us
www.rittal-corp.com

Service-HUB Brasilien
Service HUB Brazil
Plateforme de service au Brésil
RITTAL Sistemas Eletromecânicos Ltda.
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Vila Jaguara
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Fax +55 (11) 3622 2399
E-mail: service@rittal.com.br

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Service HUB China
Plateforme de service en Chine
RITTAL Electro-Mechanical Technology Co. Ltd.
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Songjiang District
Shanghai, 201612
Phone +86 21 5115 7799-213
Fax +86 21 5115 7788
E-mail: service@rittal.cn

Service-HUB Indien
Service HUB India
Plateforme de service en Inde
RITTAL India Pvt. Ltd.
Nos. 23 & 24, KIADB
Industrial Area Veerapura
Doddaballapur-561 203
Bengaluru District
Phone +91 (80) 22890792
Fax +91 (80) 7623 343
E-mail: service@rittal-india.com



A. Anhang A. Appendix A. Annexes

- A.1 Das ACB-Feld Dachbereich bis 4000 A
- A.1 The roof area ACB section up to 4000 A
- A.1 La zone des disjoncteurs de puissance avec jeux de barres jusqu'à 4000 A sous le toit



Montageanleitung
Assembly instructions
Notice de montage

 **DE/EN/FR**



14. Anhang

14. Appendix

14. Annexes

- A.2 Das ACB-Feld Dachbereich bis 6300 A
A.2 The roof area ACB section up to 6300 A
A.2 La zone des disjoncteurs de puissance avec jeux de barres jusqu'à 6300 A sous le toit



Montageanleitung
Assembly instructions
Notice de montage

 **DE/EN/FR**



A. Anhang A. Appendix A. Annexes

- A.3 Das ACB-Feld Rückbereich
- A.3 The rear area ACB section
- A.3 La zone des disjoncteurs de puissance – jeu de barres dans la partie l'arrière



Montageanleitung
Assembly instructions
Notice de montage

 **DE/EN/FR**



A. Anhang A. Appendix A. Annexes

A.4 Das Abgangsfeld
A.4 The outgoing section
A.4 La zone des départs



Montageanleitung
Assembly instructions
Notice de montage

 DE/EN/FR



A. Anhang A. Appendix A. Annexes

A.5 Die Form 2b
A.5 The Form 2b
A.5 La forme 2b



Montageanleitung
Assembly instructions
Notice de montage

 **DE/EN/FR**



A. Anhang A. Appendix A. Annexes

- A.6 Das Koppelfeld Dachbereich bis 4000 A
- A.6 Coupling section, roof section, up to 4000 A
- A.6 La zone de raccordement avec jeu de barres jusqu'à 4000 A sous le toit



**Montageanleitung
Assembly instructions
Notice de montage**

 **DE/EN/FR**



A. Anhang A. Appendix A. Annexes

- A.7 Das Koppelfeld Dachbereich bis 6300 A
A.7 Coupling section, roof section, up to 6300 A
A.7 La zone de raccordement avec jeu de barres jusqu'à 6300 A sous le toit



**Montageanleitung
Assembly instructions
Notice de montage**

 **DE/EN/FR**



A. Anhang A. Appendix A. Annexes

- A.8 Das Koppelfeld Rückbereich
A.8 The rear area coupling section
A.8 La zone de raccordement avec jeu de barres dans la partie arrière



**Montageanleitung
Assembly instructions
Notice de montage**

 **DE/EN/FR**



A. Anhang A. Appendix A. Annexes

A.9 Das Generatorfeld
A.9 The generator section
A.9 La zone du générateur



Montageanleitung
Assembly instructions
Notice de montage

 **DE/EN/FR**



A. Anhang A. Appendix A. Annexes

A.10 Das Lastschaltleistenfeld
A.10 The fuse-switch disconnecter section
A.10 La zone de coupe-circuits



Montageanleitung
Assembly instructions
Notice de montage

 **DE/EN/FR**



A. Anhang A. Appendix A. Annexes

A.11 Das Kabelrangierfeld

A.11 The cable chamber

A.11 La zone de rangement de câbles



Montageanleitung
Assembly instructions
Notice de montage



DE/EN/FR



A. Anhang A. Appendix A. Annexes

A.12 Das Verteilsammelschienenfeld
A.12 The distribution busbar section
A.12 La zone de jeux de barres de distribution



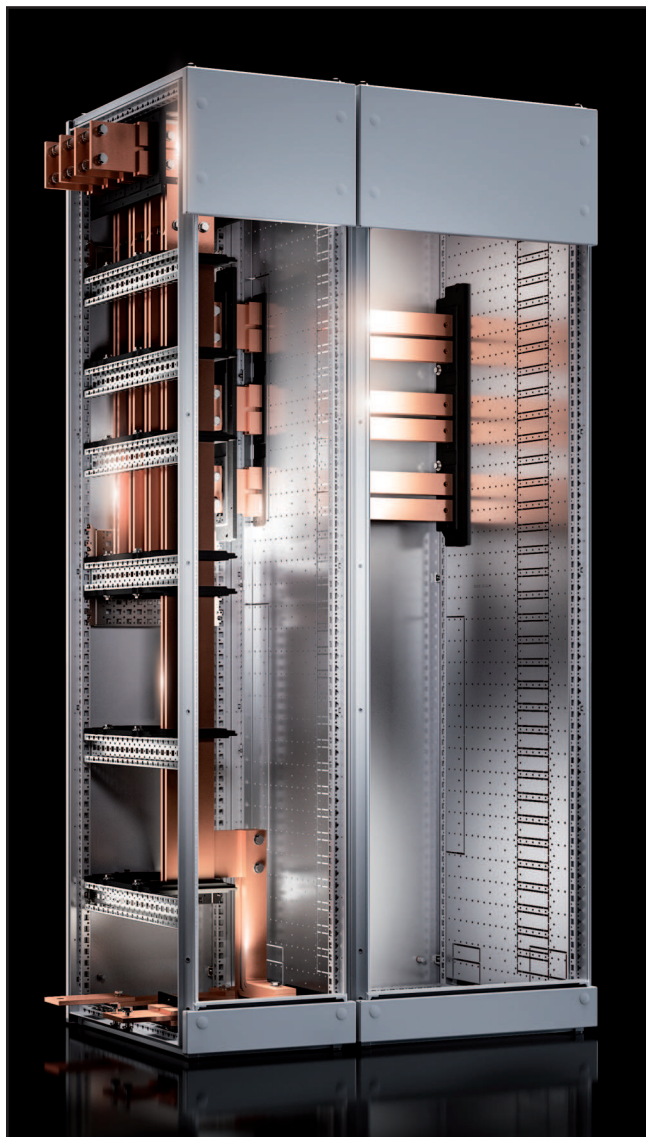
Montageanleitung
Assembly instructions
Notice de montage

 DE/EN/FR



A. Anhang A. Appendix A. Annexes

A.13 Das Hochführungsfeld
A.13 The riser section
A.13 La zone de cheminement vertical



Montageanleitung
Assembly instructions
Notice de montage

 DE/EN/FR



A. Anhang A. Appendix A. Annexes

A.14 Das Eckfeld
A.14 The corner section
A.14 La zone d'angle



**Montageanleitung
Assembly instructions
Notice de montage**

 **DE/EN/FR**



A. Anhang

A. Appendix

A. Annexes

A.15 Aktives Störlichtbogensystem DEHNshort

A15 Active arc fault protection system DEHNshort

A15 Système de protection actif DEHNshort contre les arcs électriques



Montagehinweise zum aktiven Störlichtbogen- schutz für VX25 Ri4Power (DEHNshort)

Notes for the assembly of the VX25 Ri4Power active accidental arc protection (DEHNshort)



DE

EN



B. EU-Konformitätserklärung
B. EC Declaration of Conformity
B. Déclaration de conformité CE

EU-Konformitätserklärung /
EU Declaration of Conformity



Dr181650400

Wir, / We,

Rittal GmbH & Co. KG • Auf dem Stützelberg • 35745 Herborn

Erklären, dass die Produkte / declare that the products

Anreihsschränke VX25-SV
Baying enclosures VX25-SV

SV 9680.406	SV 9680.408	SV 9680.426	SV 9680.428	SV 9680.606	SV 9680.608
SV 9680.626	SV 9680.628	SV 9680.806	SV 9680.808	SV 9680.826	SV 9680.828
SV 9666.916	SV 9666.926	SV 9666.956	SV 9666.966		
SV 9680.005	SV 9680.025	SV 9680.207	SV 9680.227		

folgenden Richtlinien entsprechen: / conform to the following Directives

Niederspannungsrichtlinie 2014/35/EU
Low Voltage Directive 2014/35/EU

Angewandte harmonisierte Normen: / Applied harmonised standards

EN 62208
 Leergehäuse für Niederspannungs-Schaltgerätekombinationen - Allgemeine Anforderungen
 (Korrosionsbeständigkeit gemäß Abschnitt 9.13.2.1)
 Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements
 (corrosion resistance in accordance with section 9.13.2.1)

Herborn, 18.10.18


 Frank Himmelhuber, Geschäftsbereichsleiter FuE
 Executive Vice President R&D

Bei einer nicht mit uns abgestimmten Änderung des Produkts verliert diese EU-Konformitätserklärung ihre Gültigkeit.
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Seite 1 von 1 / page 1 of 1

EU-Konformitätserklärung
EC Declaration of Conformity
Déclaration de conformité CE

 **DE/EN**



B. EU-Konformitätserklärung B. EC Declaration of Conformity B. Déclaration de conformité CE

EU-Konformitätserklärung / EU Declaration of Conformity



Dri2116672de

Wir, / We,

Rittal GmbH & Co. KG • Auf dem Stützelberg • 35745 Herborn

Erklären, dass die Produkte / declare that the products

Anreih-Schranksystem VX25 Installations-Verteiler / aying enclosure system VX25 Distribution enclosure

SV 9666.916 SV 9666.926 SV 9666.956 SV 9666.966

Anreih-Schranksystem VX25 Schaltleistenschrank / Baying enclosure system VX25 Fuse-switch-disconnector

SV 9680.005 SV 9680.025 SV 9680.207 SV 9680.227

Anreih-Schranksystem VX25 Modulschrank / Baying enclosure system VX25 Modular enclosure

SV 9680.406 SV 9680.408 SV 9680.426 SV 9680.428 SV 9680.606 SV 9680.608
SV 9680.626 SV 9680.628 SV 9680.806 SV 9680.808 SV 9680.826 SV 9680.828

Außenanbauteile / Zubehör (siehe Anhang) / Components (see annex)

folgenden Richtlinien entsprechen: / conform to the following Directives:

Niederspannungsrichtlinie 2014/35/EU - Low Voltage Directive 2014/35/EU

Angewandte harmonisierte Normen: / Applied harmonised standards

EN 62208

Leergehäuse für Niederspannungs-Schaltgerätekombinationen - Allgemeine Anforderungen (Korrosionsbeständigkeit gemäß Abschnitt 9.13.2.1)

Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements (corrosion resistance in accordance with section 9.13.2.1)

EN 61439-1

Niederspannungs-Schaltgerätekombinationen - Teil 1: Allgemeine Festlegungen (Schutzart gemäß Abschnitt 8.2)

Low-voltage switchgear and controlgear assemblies - Part 1: General rules (degree of protection according to section 8.2.)

EN 61439-2

Niederspannungs-Schaltgerätekombinationen - Teil 2: Energie-Schaltgerätekombinationen

Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies

EN 61439-3

Niederspannungs-Schaltgerätekombinationen - Teil 3: Installationsverteiler für die Bedienung durch Laien

Low-voltage switchgear and controlgear assemblies - Part 3: Distribution boards intended to be operated by ordinary persons

Herborn,

19.05.21

Frank Himmelhuber, Geschäftsbereichsleiter FuE
Executive Vice President R&D

Bei einer nicht mit uns abgestimmten Änderung des Produkts verliert diese EU-Konformitätserklärung ihre Gültigkeit.
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SCHALTSCHRÄNKE

STROMVERTEILUNG

KLIMATISIERUNG

IT-INFRASTRUKTUR

SOFTWARE & SERVICE

FRIEDHELM LOH GROUP

Seite 1 von 2 / page 1 of 2

EU-Konformitätserklärung EC Declaration of Conformity Déclaration de conformité CE

DE/EN



B. EU-Konformitätserklärung

B. EC Declaration of Conformity

B. Déclaration de conformité CE

EU-Konformitätserklärung dri2116672de
EU Declaration of Conformity dri2116672de



SV 8620.500	SV 9682.104	SV 9682.187
SV 8620.501	SV 9682.106	SV 9682.188
SV 8620.502	SV 9682.108	SV 9682.190
SV 8620.520	SV 9682.124	SV 9682.192
SV 8620.521	SV 9682.126	SV 9682.194
SV 9681.514	SV 9682.128	SV 9682.196
SV 9681.516	SV 9682.140	SV 9682.198
SV 9681.546	SV 9682.142	SV 9682.314
SV 9681.548	SV 9682.143	SV 9682.316
SV 9681.564	SV 9682.144	SV 9682.318
SV 9681.566	SV 9682.146	SV 9682.320
SV 9681.568	SV 9682.148	SV 9682.322
SV 9681.586	SV 9682.150	SV 9682.324
SV 9681.588	SV 9682.152	SV 9682.326
SV 9681.594	SV 9682.154	SV 9682.328
SV 9681.596	SV 9682.156	SV 9682.330
SV 9681.646	SV 9682.158	SV 9682.332
SV 9681.648	SV 9682.160	SV 9682.334
SV 9681.660	SV 9682.161	SV 9682.336
SV 9681.662	SV 9682.162	SV 9682.338
SV 9681.666	SV 9682.163	SV 9682.340
SV 9681.668	SV 9682.164	SV 9682.342
SV 9681.680	SV 9682.166	SV 9682.344
SV 9681.682	SV 9682.167	SV 9682.346
SV 9681.686	SV 9682.168	SV 9682.348
SV 9681.688	SV 9682.169	SV 9682.350
SV 9681.806	SV 9682.170	SV 9682.352
SV 9681.808	SV 9682.172	SV 9682.354
SV 9681.826	SV 9682.174	SV 9682.356
SV 9681.828	SV 9682.176	SV 9682.358
SV 9681.846	SV 9682.178	
SV 9681.848	SV 9682.180	
SV 9681.866	SV 9682.181	
SV 9681.868	SV 9682.182	
SV 9681.886	SV 9682.183	
SV 9681.888	SV 9682.184	
	SV 9682.186	

SCHALTSCHRÄNKE

STROMVERTEILUNG

KLIMATISIERUNG

IT-INFRASTRUKTUR

SOFTWARE & SERVICE

FRIEDHELM LOH GROUP

Seite 2 von 2 / page 2 of 2

EU-Konformitätserklärung
EC Declaration of Conformity
Déclaration de conformité CE

 DE/EN



B. EU-Konformitätserklärung B. EC Declaration of Conformity B. Déclaration de conformité CE

EU-Konformitätserklärung / EU Declaration of Conformity



Dri2116673de

Wir, / We,

Rittal GmbH & Co. KG • Auf dem Stützelberg • 35745 Herborn

Erklären, dass die Produkte / declare that the products

Anreih-Schranksystem VX25 Installations-Verteiler / Baying enclosure system VX25 Distribution enclosure

SV 9666.916 SV 9666.926 SV 9666.956 SV 9666.966

Anreih-Schranksystem VX25 Schaltleistenschrank / Baying enclosure system VX25 Fuse-switch-disconnector enclosure

SV 9680.005 SV 9680.025 SV 9680.207 SV 9680.227

Anreih-Schranksystem VX25 Modulschrank / Baying enclosure system VX25 Modular enclosure

SV 9680.406 SV 9680.408 SV 9680.426 SV 9680.428 SV 9680.606 SV 9680.608
SV 9680.626 SV 9680.628 SV 9680.806 SV 9680.808 SV 9680.826 SV 9680.828

Zubehör Sammelschienen Kupfer (siehe Anhang) / Components copper parts (see annex)

folgenden Richtlinien entsprechen: / conform to the following Directives

Niederspannungsrichtlinie 2014/35/EU - Low Voltage Directive 2014/35/EU

Angewandte harmonisierte Normen: / Applied harmonised standards

EN 61439-1

Niederspannungs-Schaltgerätekombinationen - Teil 1: Allgemeine Festlegungen (Nachweis Erwärmung gemäß Abschnitt 10.10, Prüfung der Hauptstromkreise gemäß Abschnitt 10.11.5.3, Prüfung des Schutzleiterkreises gemäß Abschnitt 10.11.5.6)
Low-voltage switchgear and controlgear assemblies - Part 1: General rules (temperature rise according to section 10.10, testing of main circuits according to section 10.11.5.3, testing of protective circuit according to section 10.11.5.6)

EN 61439-2

Niederspannungs-Schaltgerätekombinationen - Teil 2: Energie-Schaltgerätekombinationen
Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies

EN 61439-3

Niederspannungs-Schaltgerätekombinationen - Teil 3: Installationsverteiler für die Bedienung durch Laien
Low-voltage switchgear and controlgear assemblies - Part 3: Distribution boards intended to be operated by ordinary persons

Herborn, 19.05.21

Frank Himmelhuber, Geschäftsbereichsleiter FuE
Executive Vice President R&D

Bei einer nicht mit uns abgestimmten Änderung des Produkts verliert diese EU-Konformitätserklärung ihre Gültigkeit.
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SCHALTSCHRÄNKE STROMVERTEILUNG KLIMATISIERUNG IT-INFRASTRUKTUR SOFTWARE & SERVICE

FRIEDHELM LOH GROUP

Seite 1 von 2 / page 1 of 2

EU-Konformitätserklärung EC Declaration of Conformity Déclaration de conformité CE

DE/EN



B. EU-Konformitätserklärung B. EC Declaration of Conformity B. Déclaration de conformité CE

EU-Konformitätserklärung dri2116673de
EU Declaration of Conformity dri2116673de



SV 9640.202	SV 9686.544
SV 9640.207	SV 9686.546
SV 9640.232	SV 9686.548
SV 9640.237	SV 9686.549
SV 9640.262	SV 9686.580
SV 9640.267	SV 9686.582
SV 9640.292	SV 9686.584
SV 9640.297	SV 9686.586
SV 9640.360	SV 9686.588
SV 9640.365	SV 9686.589
SV 9649.360	SV 9686.912
SV 9650.202	
SV 9650.232	
SV 9650.262	
SV 9650.292	
SV 9650.360	
SV 9659.360	
SV 9684.004	
SV 9684.006	
SV 9684.008	
SV 9684.010	
SV 9684.012	
SV 9686.350	
SV 9686.520	
SV 9686.522	
SV 9686.524	
SV 9686.526	
SV 9686.528	
SV 9686.529	
SV 9686.530	
SV 9686.532	
SV 9686.534	
SV 9686.536	
SV 9686.538	
SV 9686.539	
SV 9686.540	
SV 9686.542	

SCHALTSCHRÄNKE STROMVERTEILUNG KLIMATISIERUNG IT-INFRASTRUKTUR SOFTWARE & SERVICE

FRIEDHELM LOH GROUP

Seite 1 von 2 / page 1 of 2

EU-Konformitätserklärung
EC Declaration of Conformity
Déclaration de conformité CE

DE/EN



B. EU-Konformitätserklärung B. EC Declaration of Conformity B. Déclaration de conformité CE

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Erklären, dass die Produkte / declare that the products

Anreih-Schranksystem VX25 Installations-Verteiler / Baying enclosure system VX25 Distribution enclosure

SV 9666.916 SV 9666.926 SV 9666.956 SV 9666.966

Anreih-Schranksystem VX25 Schaltleistenschrank / Baying enclosure system VX25 Fuse-switch-disconnector enclosure

SV 9680.005 SV 9680.025 SV 9680.207 SV 9680.227

Anreih-Schranksystem VX25 Modulschrank / Baying enclosure system VX25 Modular enclosure

SV 9680.406 SV 9680.408 SV 9680.426 SV 9680.428 SV 9680.606 SV 9680.608
SV 9680.626 SV 9680.628 SV 9680.806 SV 9680.808 SV 9680.826 SV 9680.828

Zubehör Kunststoff, Blech (siehe Anhang) / Components plastic, sheet metal (see annex)

folgenden Richtlinien entsprechen: / conform to the following Directives

Niederspannungsrichtlinie 2014/35/EU - Low Voltage Directive 2014/35/EU

Angewandte harmonisierte Normen: / Applied harmonised standards

EN 61439-1

Niederspannungs-Schaltgerätekombinationen - Teil 1: Allgemeine Festlegungen (Festigkeit von Werkstoffen und Teilen gemäß Abschnitt 8.1, Nachweis Erwärmung gemäß Abschnitt 10.10, Kurzschlussfestigkeit gemäß Abschnitt 10.11)
Low-voltage switchgear and controlgear assemblies - Part 1: General rules (strength of materials and parts according to section 8.1, temperature rise according to section 10.10, short-circuit withstand strength according to section 10.11)

EN 61439-2

Niederspannungs-Schaltgerätekombinationen - Teil 2: Energie-Schaltgerätekombinationen (Innere Unterteilung gemäß Abschnitt 8.101)
Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies (internal separation according to section 8.101)

EN 61439-3

Niederspannungs-Schaltgerätekombinationen - Teil 3: Installationsverteiler für die Bedienung durch Laien
Low-voltage switchgear and controlgear assemblies - Part 3: Distribution boards intended to be operated by ordinary persons

Herborn, 19.05.21

Frank Himmelhuber, Geschäftsbereichsleiter FuE
Executive Vice President R&D

Bei einer nicht mit uns abgestimmten Änderung des Produkts verliert diese EU-Konformitätserklärung ihre Gültigkeit.
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SCHALTSCHRÄNKE

STROMVERTEILUNG

KLIMATISIERUNG

IT-INFRASTRUKTUR

SOFTWARE & SERVICE

FRIEDHELM LOH GROUP

Seite 1 von 2 / page 1 of 2

EU-Konformitätserklärung EC Declaration of Conformity Déclaration de conformité CE

DE/EN



B. EU-Konformitätserklärung B. EC Declaration of Conformity B. Déclaration de conformité CE

EU-Konformitätserklärung dri2116674de
EU Declaration of Conformity dri2116674de



SV 9666.902	SV 9683.506	SV 9683.738
SV 9666.912	SV 9683.508	SV 9683.763
SV 9666.922	SV 9683.561	SV 9683.783
SV 9666.932	SV 9683.562	SV 9684.410
SV 9681.204	SV 9683.563	SV 9684.420
SV 9681.206	SV 9683.564	SV 9684.900
SV 9681.208	SV 9683.604	SV 9684.920
SV 9683.006	SV 9683.606	SV 9684.960
SV 9683.008	SV 9683.608	SV 9684.980
SV 9683.016	SV 9683.624	SV 9684.990
SV 9683.018	SV 9683.626	SV 9686.000
SV 9683.036	SV 9683.628	SV 9686.010
SV 9683.038	SV 9683.642	SV 9686.030
SV 9683.040	SV 9683.643	SV 9686.040
SV 9683.200	SV 9683.644	SV 9686.060
SV 9683.210	SV 9683.646	SV 9686.070
SV 9683.304	SV 9683.648	SV 9686.080
SV 9683.306	SV 9683.660	SV 9686.100
SV 9683.308	SV 9683.661	SV 9686.200
SV 9683.310	SV 9683.662	SV 9686.210
SV 9683.312	SV 9683.663	SV 9686.250
SV 9683.326	SV 9683.664	SV 9686.260
SV 9683.328	SV 9683.666	SV 9686.300
SV 9683.406	SV 9683.668	SV 9686.400
SV 9683.408	SV 9683.680	SV 9686.430
SV 9683.426	SV 9683.681	SV 9686.800
SV 9683.428	SV 9683.682	SV 9686.810
SV 9683.444	SV 9683.683	SV 9686.820
SV 9683.446	SV 9683.684	SV 9686.495
SV 9683.448	SV 9683.686	
SV 9683.464	SV 9683.688	
SV 9683.466	SV 9683.701	
SV 9683.468	SV 9683.702	
SV 9683.484	SV 9683.703	
SV 9683.486	SV 9683.704	
SV 9683.488	SV 9683.706	
SV 9683.500	SV 9683.736	
SV 9683.504		

SCHALTSCHRÄNKE

STROMVERTEILUNG

KLIMATISIERUNG

IT-INFRASTRUKTUR

SOFTWARE & SERVICE

FRIEDHELM LOH GROUP

Seite 2 von 2 / page 2 of 2

EU-Konformitätserklärung
EC Declaration of Conformity
Déclaration de conformité CE

DE/EN



Artikelverzeichnis List of model numbers Liste des références

Best.-Nr. Model No. Référence	Kapitel Chapter Chapitre	Best.-Nr. Model No. Référence	Kapitel Chapter Chapitre	Best.-Nr. Model No. Référence	Kapitel Chapter Chapitre	Best.-Nr. Model No. Référence	Kapitel Chapter Chapitre
2313.150	10.4	3455.500	7.9 7.11 7.16 7.21	3574.005	7.18 7.19 7.20 7.25	4052.121	15
2313.750	10.4					4052.122	15
2411.601	*	3455.505	7.10 7.12 7.17 7.22	3576.005	7.18 7.19 7.20 7.25	4052.131	15
2411.611	*					4052.132	15
2411.621	*	3456.500	7.9 7.11 7.16 7.21	3577.005	7.18 7.19 7.20 7.25	4052.141	15
2411.631	*					4052.142	15
2411.641	*	3456.505	7.10 7.12 7.17 7.22	3578.005	7.18 7.19 7.20 7.25	4052.480	15
2411.651	*					4054.600	15
2411.661	*	3457.500	7.9 7.16	3579.005	7.18 7.19 7.20 7.25	4054.700	15
2411.671	*	3458.500	7.9 7.16			4054.800	15
2411.801	*	3458.505	*	3584.000	14.1 14.2	4054.850	15
2411.811	*	3459.500	7.9 7.16	3586.005	4.9 5.11 7.13 7.14 7.15	4054.870	15
2411.821	*	3460.500	7.18			4163.000	4.13
2411.831	*	3516.000	*	3587.000	*	4165.500	4.12 4.14 4.15
2411.841	*	3550.000	7.16 7.21	3588.005	5.11	4166.500	*
2411.851	*	3554.000	7.18	3589.005	*	5051.018	*
2411.861	*	3555.000	7.9 7.11 7.16 7.21	3590.005	*	8006.000	*
2411.871	*			3590.015	*	8100.742	*
2559.000	*	3559.000	7.18	3590.020	*	8100.743	*
2843.160	*	3560.000	7.18	4052.001	15	8106.245	*
2843.200	*	3561.000	*	4052.003	15	8108.245	*
2843.250	*	3562.000	7.18	4052.004	15	8126.245	*
2843.320	*	3565.005	7.18 7.19 7.20 7.25	4052.007	15	8128.245	*
2843.400	*			4052.011	15	8186.245	*
2843.500	*	3568.005	7.18 7.19 7.20 7.25	4052.014	15	8188.245	*
2843.630	*			4052.018	15	8206.000	*
3052.000	*	3569.005	7.18 7.19 7.20 7.25	4052.021	15	8208.000	*
3239.200	9.4 9.6	3570.005	7.18 7.19 7.20 7.25	4052.022	15	8226.000	*
3239.500	9.5			4052.031	15	8286.000	*
3243.200	9.3	3571.005	7.18 7.19 7.20 7.25	4052.032	15	8606.000	*
3243.500	9.1			4052.038	15	8608.000	*
3244.500	9.1	3572.005	7.18 7.19 7.20 7.25	4052.053	15	8617.100	*
3245.500	9.2			4052.054	15	8617.110	*
3439.010	*	3573.005	7.18 7.19 7.20 7.25	4052.055	15	8617.120	*
3450.500	7.16 7.21			4052.056	15	8617.130	*
3450.505	7.17 7.22			4052.058	15	8617.140	*
3451.500	7.16 7.21			4052.101	15	8617.200	*
3451.505	7.17 7.22			4052.102	15	8617.210	*
3452.500	7.16			4052.104	15	8617.502	*
3453.500	7.16			4052.106	15	8620.500	*
3454.500	7.16			4052.107	15	8620.501	*
						8620.502	*
						8620.520	*
						8620.521	*



Artikelverzeichnis List of model numbers Liste des références

Best.-Nr. Model No. Référence	Kapitel Chapter Chapitre
8626.000	*
8680.828	*
8686.000	*
8686.538	*
8686.539	*
8686.820	*
8686.845	5.5 5.6
8806.000	*
8808.000	*
8826.000	*
8881.000	*
8886.000	*
9340.000	*
9340.004	*
9340.030	*
9340.040	*
9340.050	*
9340.074	*
9340.130	*
9340.134	*
9340.210	*
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9340.510	*
9340.520	*
9340.530	*
9340.550	*
9340.560	*
9340.610	*
9340.620	*

Best.-Nr. Model No. Référence	Kapitel Chapter Chapitre
9340.630	*
9340.650	*
9340.660	*
9340.700	*
9340.710	*
9340.720	*
9340.730	*
9340.740	*
9340.750	*
9340.760	*
9340.770	*
9340.780	*
9340.790	*
9340.910	*
9340.930	*
9342.004	*
9342.134	*
9342.200	*
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9342.220	*
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9342.240	*
9342.250	*
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9342.314	*
9342.320	*
9342.321	7.19
9342.324	*
9342.400	*
9342.410	*
9342.500	*
9342.504	*
9342.510	*
9342.514	*
9342.540	*
9342.550	*
9342.610	*
9343.000	*
9343.020	*
9343.030	*

Best.-Nr. Model No. Référence	Kapitel Chapter Chapitre
9343.040	*
9343.050	*
9343.100	*
9343.110	*
9343.120	*
9343.130	*
9343.140	*
9343.150	*
9343.200	*
9343.210	*
9343.230	*
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9344.020	*
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9345.704	*
9345.710	*
9345.714	*
9345.720	*
9345.724	*
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9345.734	*
9383.783	*

Best.-Nr. Model No. Référence	Kapitel Chapter Chapitre
9617.130	*
9640.202	*
9640.207	*
9640.232	*
9640.237	*
9640.262	*
9640.267	*
9640.292	*
9640.297	*
9640.325	7.26
9640.330	7.30
9640.340	7.30
9640.350	7.30
9640.360	*
9640.365	*
9640.370	7.27
9640.380	7.27
9640.900	7.29
9640.910	7.29
9640.920	7.29
9640.930	7.29
9640.940	7.28 7.29
9640.970	7.28
9640.980	7.28
9649.010	*
9649.360	*
9650.202	*
9650.232	*
9650.262	*
9650.292	*
9650.325	7.26
9650.330	7.30
9650.340	7.30
9650.360	*
9650.370	7.27
9650.380	7.27
9650.900	7.29
9650.905	7.29
9650.910	7.29
9650.920	7.29
9650.980	7.28
9650.990	7.28
9659.010	*
9659.360	*



Artikelverzeichnis List of model numbers Liste des références

Best.-Nr. Model No. Référence	Kapitel Chapter Chapitre	Best.-Nr. Model No. Référence	Kapitel Chapter Chapitre	Best.-Nr. Model No. Référence	Kapitel Chapter Chapitre	Best.-Nr. Model No. Référence	Kapitel Chapter Chapitre
9660.205	14.1 14.2 14.6	9676.812	7.6 7.24	9677.265	*	9680.828	*
9665.750	8.3	9676.813	7.4 7.25	9677.280	*	9681.012	*
9665.760	8.3	9676.814	7.23	9677.300	*	9681.204	*
9665.770	8.3	9676.815	5.11 7.5 7.14	9677.310	*	9681.206	*
9665.780	8.3	9676.816	7.6 7.15	9677.315	*	9681.208	*
9665.785	8.3	9676.817	7.4 7.13	9677.340	*	9682.152	*
9666.902	*	9676.819	*	9677.360	*	9682.172	*
9666.912	*	9676.966	*	9677.365	*	9682.192	*
9666.922	*	9676.967	*	9677.380	*	9681.514	8.4
9666.932	*	9676.968	*	9677.400	*	9681.516	8.4
9674.380	*	9676.971	7.28 7.29	9677.405	*	9681.546	8.3
9674.381	*	9676.972	7.28 7.29	9677.410	*	9681.548	8.3
9674.410	*	9676.973	7.28 7.29	9677.500	*	9681.564	8.3
9674.416	*	9676.976	7.28 7.29	9677.511	*	9681.566	8.3
9674.418	*	9676.977	7.28 7.29	9677.521	*	9681.568	8.3
9674.430	*	9676.981	7.28 7.29	9677.705	*	9681.586	*
9674.436	*	9676.982	7.28 7.29	9677.715	*	9681.588	8.3
9674.438	*	9676.983	7.28 7.29	9677.730	*	9681.594	8.4
9674.749	7.6	9676.986	7.28 7.29	9677.740	*	9681.596	8.4
9676.017	*	9676.987	7.28 7.29	9677.750	*	9681.646	8.1
9676.019	*	9677.910	7.20	9677.760	*	9681.648	8.1
9676.710	7.2 7.5 7.14 7.24	9677.000	*	9677.770	*	9681.666	8.1
9676.730	7.1 7.4 7.13 7.23	9677.010	*	9677.790	*	9681.668	8.1
9676.747	7.3 7.6 7.15 7.25	9677.015	*	9677.792	*	9681.686	8.1
9676.748	7.3 7.6 7.15 7.25	9677.065	*	9677.794	*	9681.688	8.1
9676.749	7.3 7.15 7.25	9677.075	*	9677.796	*	9681.806	8.2
9676.806	*	9677.085	*	9677.798	*	9681.808	8.2
9676.807	7.2 7.24	9677.100	*	9677.915	7.20	9681.826	8.2
9676.808	7.3 7.24 7.25	9677.110	*	9677.920	7.20	9681.828	8.2
9676.809	7.1 7.2 7.23 7.25	9677.115	*	9680.005	*	9681.846	8.2
9676.810	7.3 7.23	9677.160	*	9680.025	*	9681.848	8.2
9676.811	7.1 7.5	9677.165	*	9680.080	*	9681.866	8.2
		9677.180	*	9680.207	*	9681.868	8.2
		9677.200	*	9680.227	*	9681.886	8.2
		9677.210	*	9680.406	*	9681.888	8.2
		9677.215	*	9680.408	*	9682.104	*
		9677.260	*	9680.426	*	9682.106	*
				9680.428	*	9682.108	*
				9680.606	*	9682.124	*
				9680.608	*	9682.126	*
				9680.626	*	9682.128	*
				9680.628	*	9682.140	*
				9680.806	*	9682.142	*
				9680.808	*	9682.143	*
				9680.826	*	9682.144	*



Artikelverzeichnis **List of model numbers** **Liste des références**

Best.-Nr. Model No. Référence	Kapitel Chapter Chapitre	Best.-Nr. Model No. Référence	Kapitel Chapter Chapitre	Best.-Nr. Model No. Référence	Kapitel Chapter Chapitre	Best.-Nr. Model No. Référence	Kapitel Chapter Chapitre	
9682.146	*	9682.342	*	9683.561	*	9684.012	4.9	
9682.148	*	9682.344	*	9683.562	*	9684.410	*	
9682.150	*	9682.346	*	9683.563	*	9684.420	*	
9682.154	*	9682.348	*	9683.564	*	9684.430	*	
9682.156	*	9682.350	*	9683.604	*	9684.900	*	
9682.158	*	9682.352	*	9683.606	*	9684.912	*	
9682.160	*	9682.354	*	9683.608	*	9684.920	*	
9682.161	*	9682.356	*	9683.624	*	9684.960	*	
9682.162	*	9682.358	*	9683.626	*	9684.980	*	
9682.163	*	9683.006	*	9683.628	*	9684.990	*	
9682.164	*	9683.008	*	9683.642	*	9686.000	4.1	
9682.166	*	9683.016	*	9683.643	*		4.3	
9682.167	*	9683.018	*	9683.644	*		4.5	
9682.168	*	9683.036	*	9683.646	*		4.11	
9682.169	*	9683.038	*	9683.648	*		4.12	
9682.170	*	9683.040	*	9683.660	*		4.13	
9682.174	*	9683.050	*	9683.661	*	9686.010	4.14	
9682.176	*	9683.200	*	9683.662	*		5.3	
9682.178	*	9683.210	*	9683.663	*		4.1	
9682.180	*	9683.304	*	9683.664	*		4.3	
9682.181	*	9683.306	*	9683.666	*		4.5	
9682.182	*	9683.308	*	9683.668	*	9686.012	4.11	
9682.183	*	9683.310	*	9683.680	*		4.12	
9682.184	*	9683.312	*	9683.681	*		4.13	
9682.186	*	9683.326	*	9683.682	*		4.14	
9682.187	*	9683.328	*	9683.683	*		5.3	
9682.188	*	9683.350	*	9683.684	*	9686.025	*	
9682.190	*	9683.406	10.2	9683.686	*		9686.030	4.1
9682.194	*	9683.408	10.2	9683.688	*			4.4
9682.196	*	9683.426	10.2	9683.701	*			4.6
9682.198	*	9683.428	10.2	9683.702	*			4.11
9682.314	*	9683.444	10.2 14.4	9683.703	*	9686.040		4.12
9682.316	*	9683.446	10.2 14.4	9683.704	*		4.13	
9682.318	*			9683.706	*		4.14	
9682.320	*	9683.448	10.2 14.4	9683.720	*		9686.060	4.1
9682.322	*	9683.464	10.2	9683.736	10.3 10.6			4.2
9682.324	*			9683.466	10.2	9683.738		10.3 10.6
9682.326	*	9683.468	10.2	9683.763	*	4.11		
9682.328	*	9683.484	10.2	9683.783	*	4.15		
9682.330	*	9683.486	10.2	9684.004	4.9 5.3	9686.070	4.2	
9682.332	*	9683.488	10.2	9684.006	4.9 5.3		4.7	
9682.334	*	9683.500	*	9684.008	4.9		4.11	
9682.336	*	9683.504	14.4	9684.010	4.9		4.15	
9682.338	*	9683.506	*					4.2
9682.340	*	9683.508	*			9686.080	4.16	



Artikelverzeichnis List of model numbers Liste des références

Best.-Nr. Model No. Référence	Kapitel Chapter Chapitre
9686.250	4.20 4.21 4.22 4.23 5.7 5.8 5.9
9686.260	4.17
9686.300	5.1 5.2
9686.350	6.1 6.2 6.3 6.4 6.5
9686.400	11.1 11.2 11.3 11.4
9686.410	11.1 11.2 11.3 11.4
9686.450	*
9686.460	*
9686.470	*
9686.480	*
9686.495	14.1 14.2 14.6
9686.520	*
9686.522	6.2 6.3 6.4 6.5
9686.524	6.2 6.3 6.4 6.5
9686.526	6.2 6.3 6.4 6.5
9686.528	6.2 6.3 6.4 6.5
9686.529	6.2 6.3 6.4 6.5
9686.530	6.2 6.3 6.4 6.5
9686.532	6.2 6.3 6.4 6.5
9686.534	6.2 6.3 6.4 6.5

Best.-Nr. Model No. Référence	Kapitel Chapter Chapitre
9686.536	6.2 6.3 6.4 6.5
9686.538	6.2 6.3 6.4 6.5
9686.539	6.2 6.3 6.4 6.5
9686.540	6.2 6.3 6.4 6.5
9686.542	6.2 6.3 6.4 6.5
9686.544	6.2 6.3 6.4 6.5
9686.546	6.2 6.3 6.4 6.5
9686.548	6.2 6.3 6.4 6.5
9686.549	6.2 6.3 6.4 6.5
9686.569	*
9686.580	6.2 6.3
9686.582	6.2 6.3
9686.584	6.2 6.3
9686.586	6.2 6.3
9686.588	6.2 6.3
9686.589	6.2 6.3
9686.648	*
9686.800	*
9686.810	7.7 7.8
9686.820	5.3 5.4 5.5 5.6 7.7 7.8
9686.840	*
9686.940	*
9686.845	*

Best.-Nr. Model No. Référence	Kapitel Chapter Chapitre
9686.865	7.7 7.8 14.4
9686.912	14.1 14.2
9686.924	*
9876.808	*



Hinweis / Note / Remarque

Best.-Nr. markiert mit Stern: siehe Anhänge A.1 bis A.15.

Model No marked with an asterisk: see appendices A1. to A.15.

Référence marqué d'un astérisque : voir Annexes A.1 to A.15.

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