

3: Stylebox 15 e-motion

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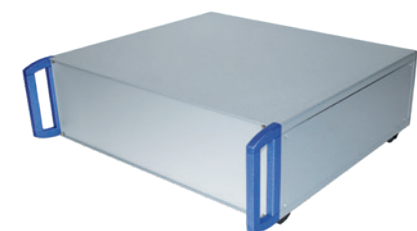
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3: Stylebox 15 e-motion



3.1 Stylebox 15 Overview

- The Elma Stylebox 15 case system consists of four longitudinal sections and two side panels as loadbearing frame and casing
- The top and bottom covers are provided with spring catches, which engage in special slots on the longitudinal sections. They are also screwed at the side to increase the torsional rigidity of the case
- The front of the case can be fitted as required with cover panels, front handles or 19" fixing brackets. This permits subsequent conversion from a desktop case to a 19" module unit and vice-versa
- The mounting dimensions at front and rear comply with IEC 60297
- The side panels are passivated. The supporting surfaces of the longitudinal sections and top/bottom plates are clear passivated. This provides a large contact area for long-term EMI/RFI protection
- The top design and the variety of sizes and models, together with the full range of Elma accessories, are ideal solutions for a wide range of applications, including measuring units, controllers, computer systems, etc.

Sturdy, flexible and portable

Technical features

- Superior EMC-shielding options available
- Easy conversion from desktop to 19" rack mount case
- Dimensions to IEC 60297
- Simple assembly
- Easy access
- Elegant design

Options

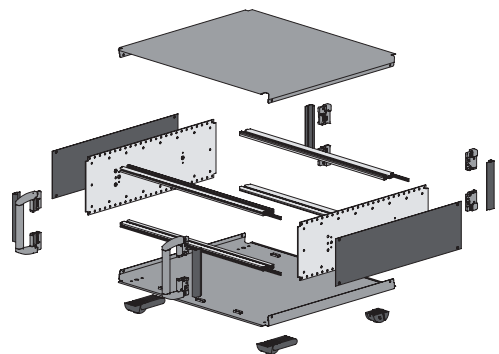
- Numerous accessories
- Internal mounting chassis
- Horizontal and vertical insertion of eurocards
- Cooling

Applications

- Measurement and test instruments
- Lab and field service instruments
- Controls
- Computers

Colours

- Stylebox 15 e-motion
 - White (RAL 9016) and silver berluran
- Other colours available upon request



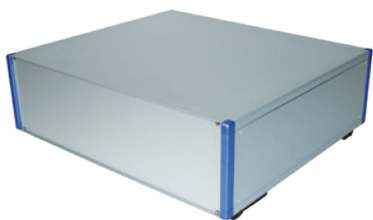
Stylebox 15 e-motion

- Extrusions and inner sides aluminium
- Covers of galvanised steel
- Basic EMC-shielding as standard

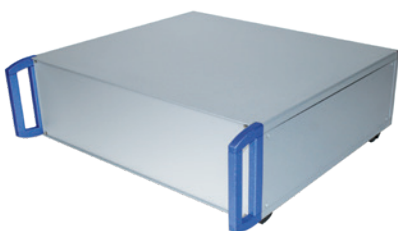
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Types and Sizes

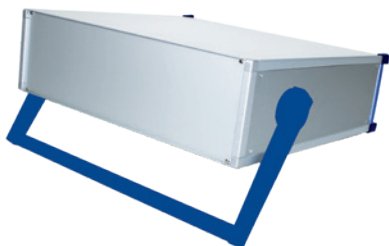
Desktop Case without Handles



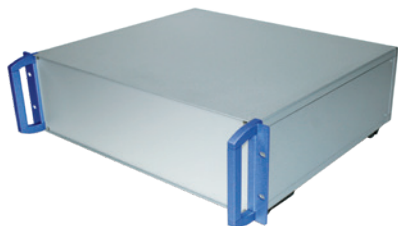
Desktop Case with Front Handles



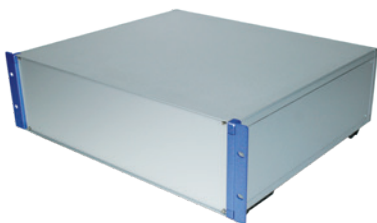
Portable Desktop Case



19" Case with Front Handles



19" Case without Front Handles



Width Height	42 HP e-motion	63 HP e-motion	84 HP e-motion
2 U			
3 U			
4 U			
6 U			
7 U			

Depth 245 mm 305 mm 395 mm 500 mm
 9.64" 12.00" 15.55" 19.68"

3: Stylebox 15 e-motion

EMC

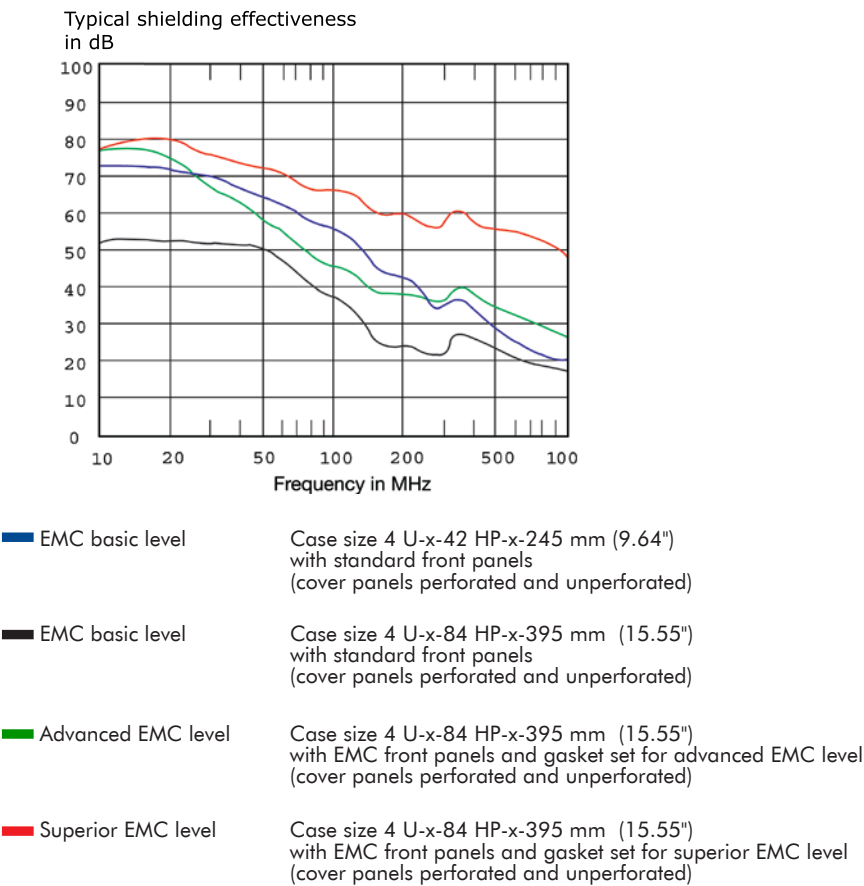
“Electromagnetic comptability is the ability of a system to operate in the intended environment without causing or suffering unacceptable degradation of performance due to unintentional electromagnetic radiation or response.”
The EMC characteristics of a system therefore consist of an appropriate immunity from interference (noise immunity) and a limited emission of interference (noise emission).

Elma’s EMC concept describes three levels of electromagnetic shielding performance (Performance Level). The attenuation levels will simplify the selection of sub racks for the user.
Test setup: The first measurement E1 is without the enclosure. The next measurement E2 is made with the transmitting antenna installed inside the enclosure. The difference between the received signal without and with the enclosure represents the shielding effectiveness in dB.

Performance Level	30 - 230 MHz	230 - 1000 MHz	1000 - 2000 MHz
1 / Elma: Basic level	20 dB	10 dB	0 dB
2 / Elma: Advanced level	40 dB	30 dB	20 dB
3 / Elma: Superior level	60 dB	50 dB	40 dB

The standard configuration will provide you with a basic (Stylebox 15 Standard and e-motion) or an advanced EMC level (Stylebox 15 Smart). If you require an advanced or superior EMC level for your system, you need to order **additional EMC parts**. Throughout the catalogue we have put all EMC parts **in a yellow table**.

Typical Attenuation

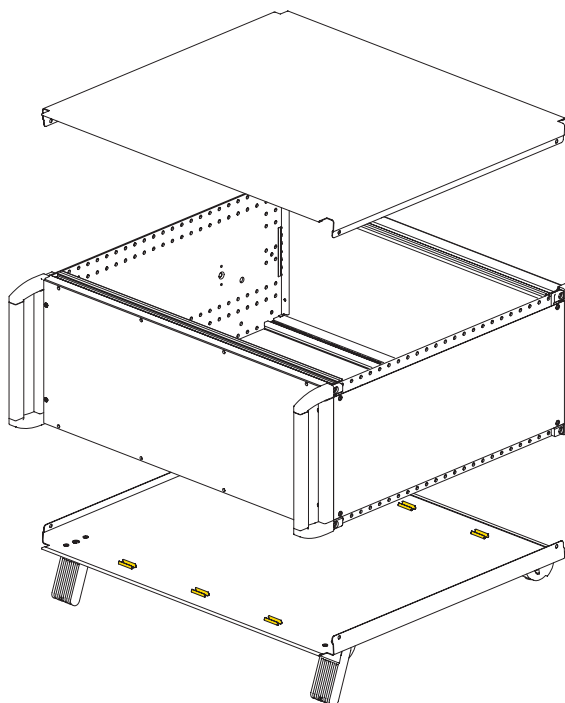


3: Stylebox 15 e-motion

EMC Layout & Configuration Options

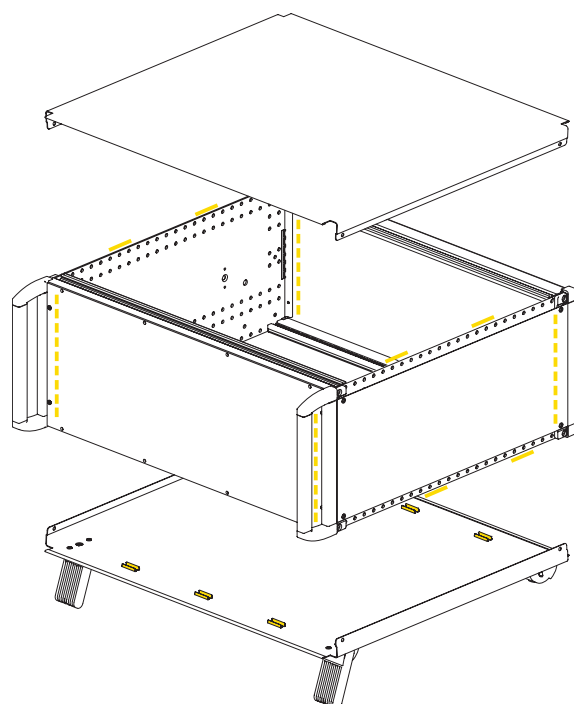
Basic Level

Stylebox 15 e-motion
Size 4 U x 84 HP x 395 mm
with standard front panels
(cover plates perforated or unperforated)



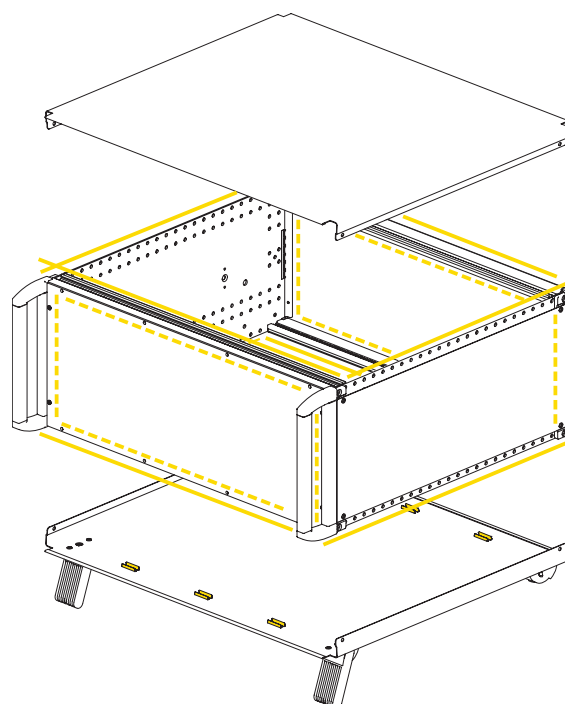
Advanced Level

Stylebox 15 e-motion
Size 4 U x 84 HP x 395 mm
with EMC front panels and gasket kit
(cover plates perforated or unperforated)



Superior Level

Stylebox 15 e-motion
Size 4 U x 84 HP x 395 mm
with EMC front panels and gasket kit
(cover plates perforated or unperforated)



3: Stylebox 15 e-motion

Configuration



Stylebox 15 e-motion

Frame

Width 1.2.1

- 42 HP / 63 HP / 84 HP

Height 1.2.2

- 2 U / 3 U / 4 U / 6 U / 7 U
- Without / with handles
- Portable desktop
- 19" with or without front handles

Depth 1.2.3

- 245 mm / 305 mm / 395 mm / 500 mm

Covers

Top Cover 1.2.4

- Solid / perforated
- Width: 42 HP / 63 HP / 84 HP

Bottom Cover 1.2.5

- Solid / perforated
- Width: 42 HP / 63 HP / 84 HP

Feet

Side Panels 1.2.6

- Height: 2 U / 3 U / 4 U / 6 U / 7 U
- Solid / solid for portable desktop
- Depth: 245 mm / 305 mm / 395 mm / 500 mm

Portable Desktop Handle 1.2.7

Tower Feet 1.2.8

Adapation Kits 1.3

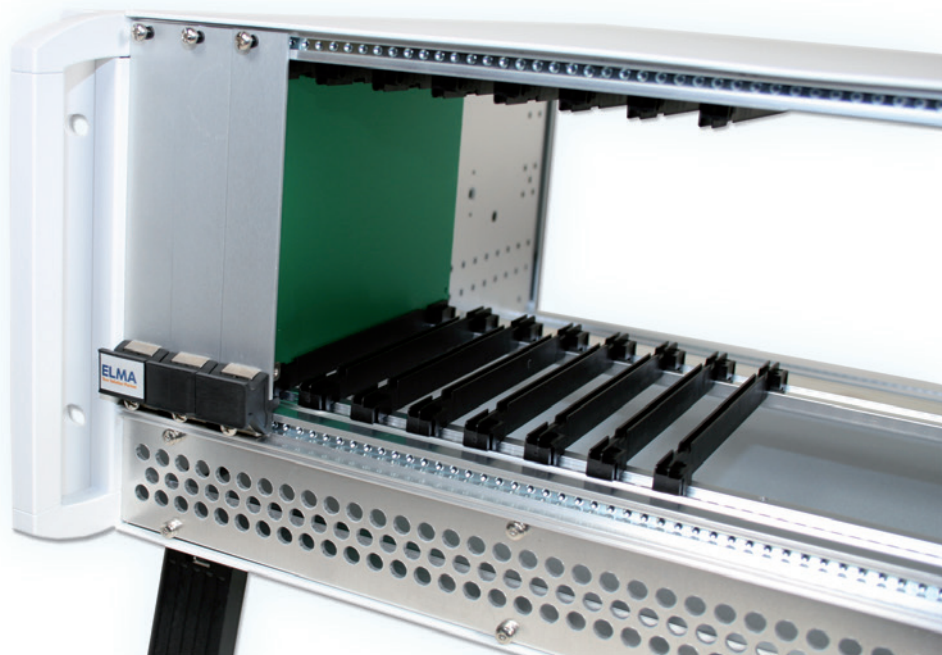
Assembly Accessories 1.4

General Accessories 1.5

Front Panels 1.6

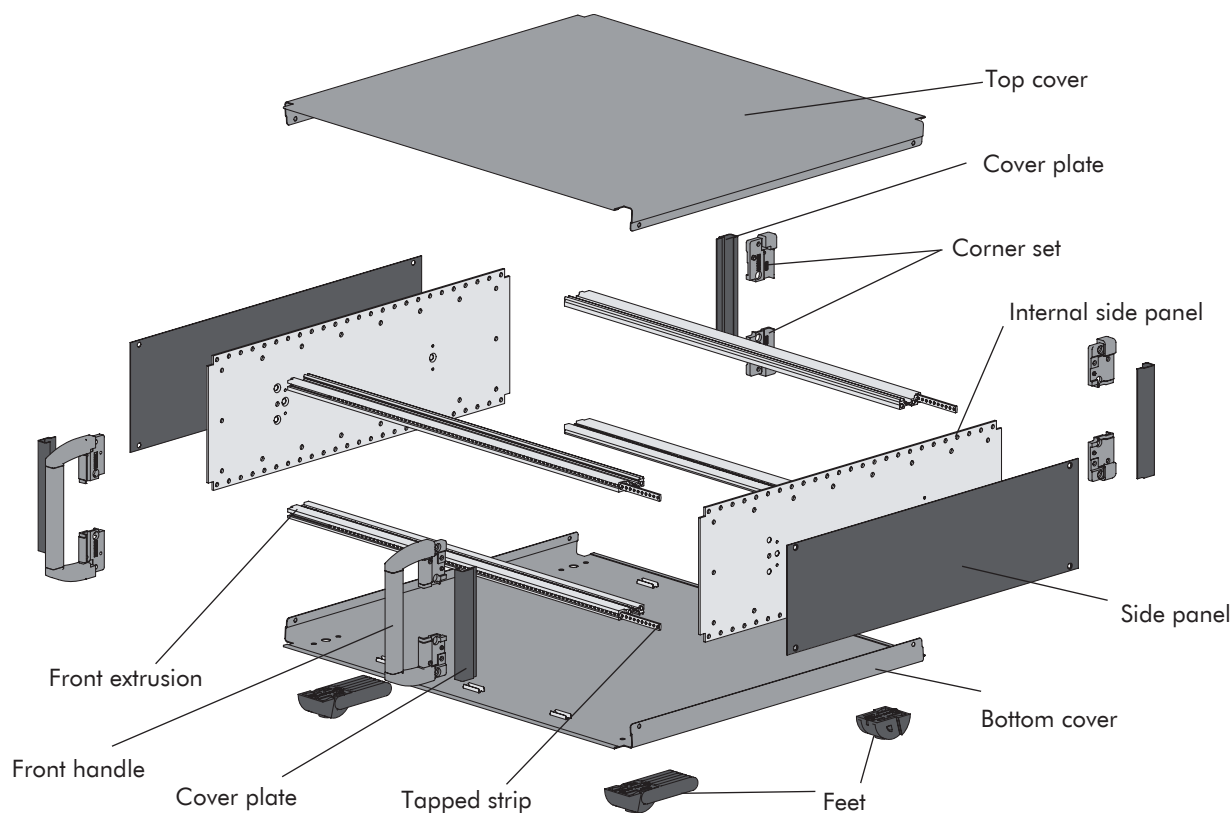
Extrusions 1.7

3: Stylebox 15 e-motion



3.2 Stylebox 15 e-motion

- Extrusions and inner sides aluminium
- Covers of galvanised steel
- Advanced EMC-shielding as standard
- Identical front and rear for insertion of boards, modules, etc.
- Dimensions to IEC 60297
- Top design
- Simple assembly
- Sturdy
- Conductive contact surfaces
- Visible surfaces are powder-coated
- Colour: white (RAL 9016) and silver berluran



3: Stylebox 15 e-motion

3.2.1 Width

- For Stylebox 15 e-motion
- Extrusions: Aluminium, conductive
- **Scope of delivery:**
 - 4 front/rear extrusions
 - 4 tapped strips M 2.5
 - 1 set of 16 screws (Torx M4 x 10, T20)

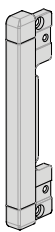


1.2.1 Width

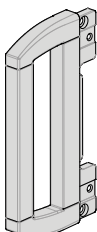
Description	42 HP	63 HP	84 HP
IEC Application	15S035	15S036	15S037

3.2.2 Height Bezels

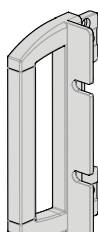
- For Stylebox 15 e-motion
- No additional coverplate has to be ordered when using 19" bracket version
- Die cast parts and extrusions: Aluminium powder coated or wet painted, contact area conductive
- **Scope of delivery:**
 - 1 height bezel
- 4 sets have to be ordered (2 for front and 2 for rear side)



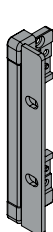
Bracket



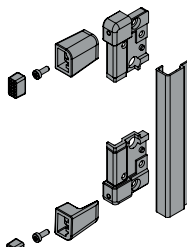
Front handle



19" bracket
with front handle



19" bracket



Rear feet corner set
plus coverplate

3.2.2 Height Bezels

Description	Colour	2 U	3 U	4 U	6 U
Bracket	white	15-242-70	15-243-70	15-244-70	15-246-70
	silver	15-242-80	15-243-80	15-244-80	15-246-80
for design front plate	white	15-242-01-70	15-243-01-70	15-244-01-70	15-246-01-70
	silver	15-242-01-80	15-243-01-80	15-244-01-80	15-246-01-80
Front handle	white	15-222-70	15-223-70	15-224-70	15-226-70
	silver	15-222-80	15-223-80	15-224-80	15-226-80
for design front plate	white	15-222-01-70	15-223-01-70	15-224-01-70	15-226-01-70
	silver	15-222-01-80	15-223-01-80	15-224-01-80	15-226-01-80

3: Stylebox 15 e-motion

3.2.2 Height Bezels (continued)

19" bracket	white	15-232-70	15-233-70	15-234-70	15-236-70
	silver	15-232-80	15-233-80	15-234-80	15-236-80
for design front plate	white	15-232-01-70	15-233-01-70	15-234-01-70	15-236-01-70
	silver	15-232-01-80	15-233-01-80	15-234-01-80	15-236-01-80
19" bracket	white	15-182-70	15-183-70	15-184-70	15-186-70
	silver	15-182-80	15-183-80	15-184-80	15-186-80
for design front plate	white	15-212-70	15-213-70	15-214-70	15-216-70
Rear feet corner set	black	15S090	15S090	15S090	15S090

3.2.3 Depth

- For Stylebox 15 e-motion
- 2.0 mm Aluminium clear passivated
- **Scope of delivery:**
 - 1 Internal side panel
- 2 pieces have to be ordered (for left and right side)

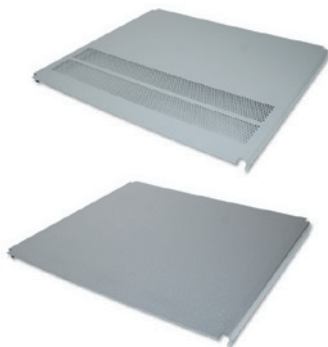


3.2.3 Depth

For Height	245 mm 9.64"	305 mm 12.00"	395 mm 15.55"	500 mm 19.68"
2 U	15-520	15-522	15-524	-
3 U	15-530	15-532	15-534	15-536
4 U left	15-540	15-542	15-544	15-546
4 U right	15-541	15-543	15-545	15-547
6 U	-	15-562	15-564	15-566
7 U	-	15-572	15-574	15-576

3.2.4 Top Covers

- For Stylebox 15 e-motion
- Symmetrical construction: Perforation can be used at front or rear
- 0.75 mm sheet steel powder coated or wet painted, contact area conductive
- **Scope of delivery:**
 - 1 top cover



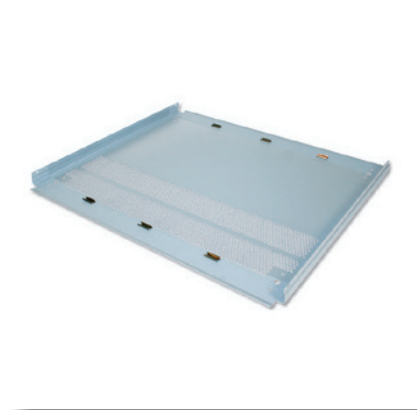
3.2.4 Top Covers

Description	Width	Depth			
		245 mm 9.64"	305 mm 12.00"	395 mm 15.55"	500 mm 19.68"
Solid, white	42 HP	15B201-70	15B202-70	15B203-70	15B204-70
Solid, silver		15B201-80	15B202-80	15B202-80	15B202-80
Perforated, white		15B201-71	15B202-71	15B203-71	15B204-71
Perforated, silver		15B201-81	15B202-81	15B203-81	15B204-81
Solid, white	63 HP	15B206-70	15B207-70	15B208-70	15B209-70
Solid, silver		15B206-80	15B207-80	15B208-80	15B209-80
Perforated, white		15B206-71	15B207-71	15B208-71	15B209-71
Perforated, silver		15B206-81	15B207-81	15B208-81	15B209-81
Solid, white	84 HP	15B210-70	15B212-70	15B213-70	15B214-70
Solid, silver		15B210-80	15B212-80	15B213-80	15B214-80
Perforated, white		15B210-71	15B212-71	15B213-71	15B214-71
Perforated, silver		15B210-81	15B212-81	15B213-81	15B214-81

3: Stylebox 15 e-motion

3.2.5 Bottom Covers

- For Stylebox 15 e-motion
- Symmetrical construction: Perforation can be used at front or rear
- 0.75 mm sheet steel powder coated or wet painted, contact area conductive
- **Scope of delivery:**
 - 1 Bottom cover without mounted feed
- Feet for bottom cover panel see 3.2.5.2



3.2.5.1 Bottom Covers

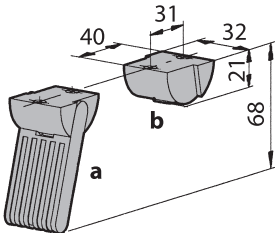
Description	Width	Depth			
		245 mm 9.64"	305 mm 12.00"	395 mm 15.55"	500 mm 19.68"
Solid, white	42 HP	15B301-70	15B302-70	15B303-70	15B304-70
Solid, silver		15B301-80	15B302-80	15B303-80	15B304-80
Perforated, white		15B301-71	15B302-71	15B303-71	15B304-71
Perforated, silver		15B301-81	15B302-81	15B303-81	15B304-81
Solid, white	63 HP	15B306-70	15B307-70	15B308-70	15B309-70
Solid, silver		15B306-80	15B307-80	15B308-80	15B309-80
Perforated, white		15B306-71	15B307-71	15B308-71	15B309-71
Perforated, silver		15B306-81	15B307-81	15B308-81	15B309-81
Solid, white	84 HP	15B310-70	15B312-70	15B313-70	15B314-70
Solid, silver		15B310-80	15B312-80	15B313-80	15B314-80
Perforated, white		15B310-71	15B312-71	15B313-71	15B314-71
Perforated, silver		15B310-81	15B312-81	15B313-81	15B314-81

3.2.5.2 Case Feet



3.2.5.2 Case Feet Type 15

- With and without tilt feet
- Glass-fiber reinforced plastic, UL94 V-0
- Including screws 3.5 x 8
- Up to 30 kg carrying capacity per set
- **Scope of delivery:**
 - 2 + 2 case feet, incl. rubber inserts NBR
 - 8 Torx countersunk PT-screws 3.5 x 8, size T10



Description	Colour	Part-No.
Case feet 2 x a + 2 x b	Light grey (RAL 7035)	63K524
Case feet 2 x a + 2 x b	Black (RAL 9005)	63K526
Case feet 2 x a + 2 x b	Dark grey (special)	63K525

3: Stylebox 15 e-motion

3.2.6 Side Panels

- For Stylebox 15 e-motion
- Outer side, visible surface
- 0.75 mm sheet steel powder coated or wet painted
- **Scope of delivery:**
 - 1 side panel
- 2 pieces have to be ordered (for left and right side)
- Assembly material see below



3.2.6 Side Panels

Description	Depth		Height				
	mm	inch	2 U	3 U	4 U	6 U	7 U
Solid, white	245	9.64	15B601-70	15B606-70	15B610-70	-	-
Solid, silver			15B601-80	15B606-80	15B610-80	-	-
Solid, white for portable desktop			15B657-70	15B661-70	15B665-70	-	-
Solid, silver for portable desktop			15B657-80	15B661-80	15B665-80	-	-
Solid, white	305	12.00	15B602-70	15B607-70	15B612-70	15B622-70	15B627-70
Solid, silver			15B602-80	15B607-80	15B612-80	15B622-80	15B627-80
Solid, white for portable desktop			15B658-70	15B662-70	15B667-70	-	-
Solid, silver for portable desktop			15B658-80	15B662-80	15B667-80	-	-
Solid, white	395	15.55	15B603-70	15B608-70	15B613-70	15B623-70	15B628-70
Solid, silver			15B603-80	15B608-80	15B613-80	15B623-80	15B628-80
Solid, white for portable desktop			15B659-70	15B663-70	15B668-70	-	-
Solid, silver for portable desktop			15B659-80	15B663-80	15B668-80	-	-
Solid, white	500	19.68	-	15B609-70	15B614-70	15B624-70	15B629-70
Solid, silver			-	15B609-80	15B614-80	15B624-80	15B629-80
Solid, white for portable desktop			-	15B664-70	15B669-70	-	-
Solid, silver for portable desktop			-	15B664-80	15B669-80	-	-

Assembly Material

- For 1 side panel

Description	Part-No
4 Torx countersunk screws M3 x 6, T10	63K800

3.2.7 Portable Desktop Handles

- For Stylebox 15 e-motion
- **Scope of delivery:**
 - 2 adapters
 - 2 side parts, black
 - 1 handle extrusion, soft feel
 - Assembly material, Torx



3.2.7 Portable Desktop Handles

Height	42 HP	63 HP	84 HP
2 HP	15S050	15S051	15S052
3/4 HP	15S053	15S054	15S055

3.2.8 Tower Feet

- For Stylebox 15 e-motion
- Use of Stylebox 15 e-motion as a tower
- Feet mounted direct onto side panel
- Plastic and aluminium
- **Scope of delivery:**
 - 4 round feet, Ø 40 mm
 - 4 round head screws with integrated washer M3 x 8, Torx T10



3.2.8 Tower Feet

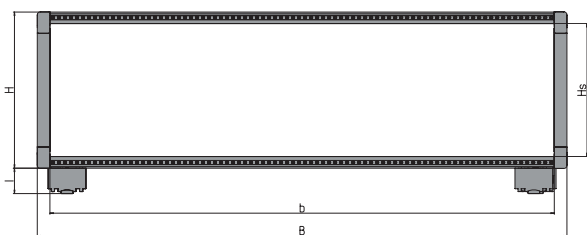
Description	Part-No.
Set of tower feet	63-880



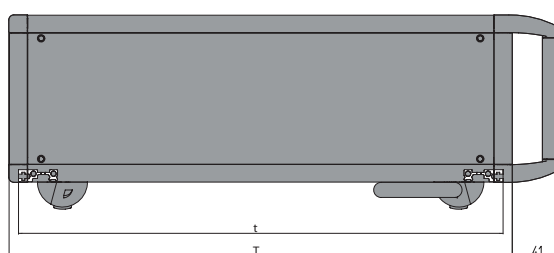
3: Stylebox 15 e-motion

3.2.9 Drawings Stylebox 15 e-motion

Front view



Side view



Heights

U	H		Hs	
	mm	inch	mm	inch
2 U	88.05	3.46	68.05	2.67
3 U	132.50	5.21	112.50	4.42
4 U	176.95	6.96	156.95	6.17
6 U	265.85	10.46	245.85	9.67
7 U	310.3	12.21	290.30	11.43

Widths

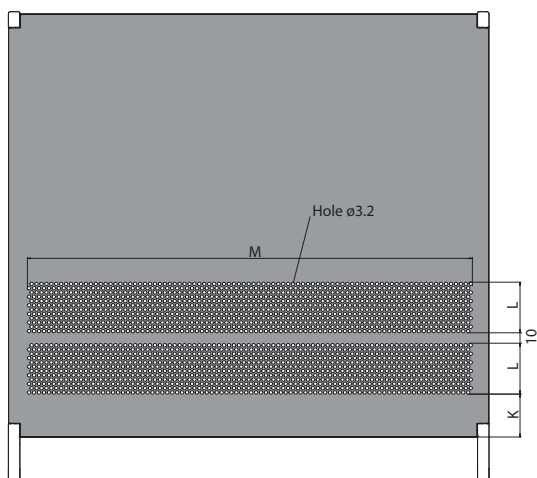
HP	B		b	
	mm	inch	mm	inch
42 HP	235.2	9.25	213.4	8.40
63 HP	341.9	13.46	320.1	12.60
84 HP	448.6	17.66	426.8	16.80

Depths

T			t	
	mm	inch		
245	9.64		232.6	9.15
305	12.00		292.6	11.51
395	15.55		382.6	15.06
500	19.68		487.6	19.19

Feet / Type	I	
	mm	inch
e-motion	21.5	0.89

Top view



Air Flow Stylebox 15 e-motion

mm

HP	Depth	M		K	L
		mm	mm ²		
42 HP	245/305/395/500	208	8680	40	47.2
63 HP	245/305/395/500	323	13510	40	47.2
84 HP	245/305/395/500	415	17370	40	47.2

inch

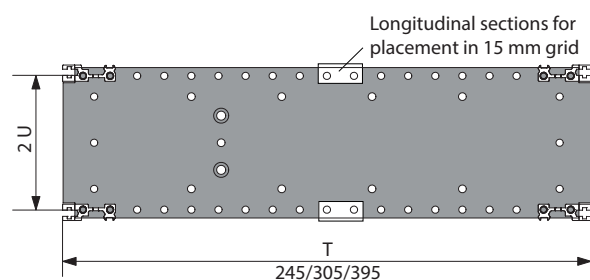
HP	Depth	M		K	L
		inch	sq. inch		
42 HP	9.64/12.00/15.55/19.68	8.18	13.46	1.57	1.85
63 HP	9.64/12.00/15.55/19.68	12.71	20.94	1.57	1.85
84 HP	9.64/12.00/15.55/19.68	16.33	26.92	1.57	1.85

Our ability to adapt existing components to your application,
make Elma your preferred solution partner.

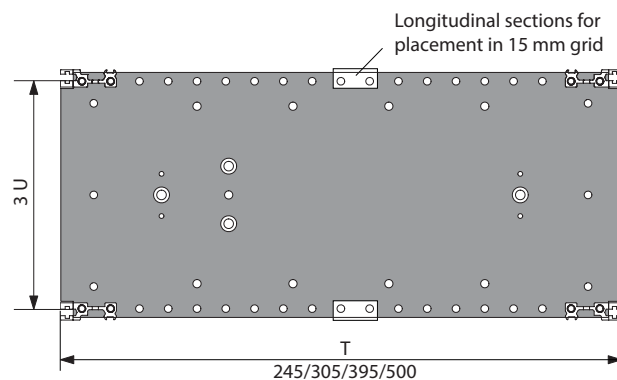
3: Stylebox 15 e-motion

Drawings Side Panels

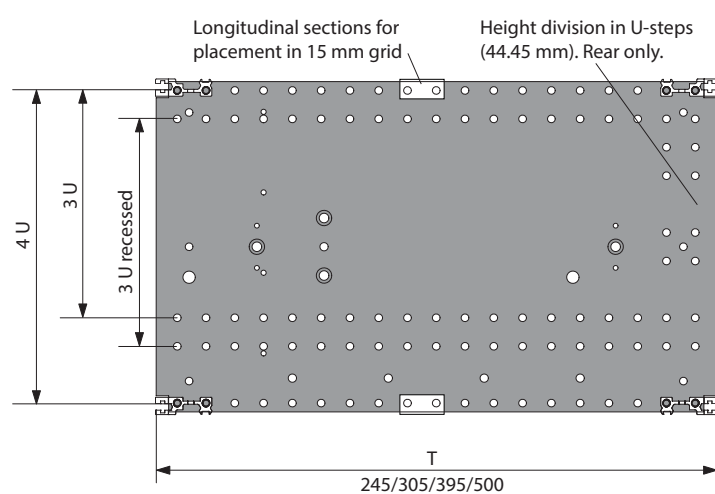
2 U



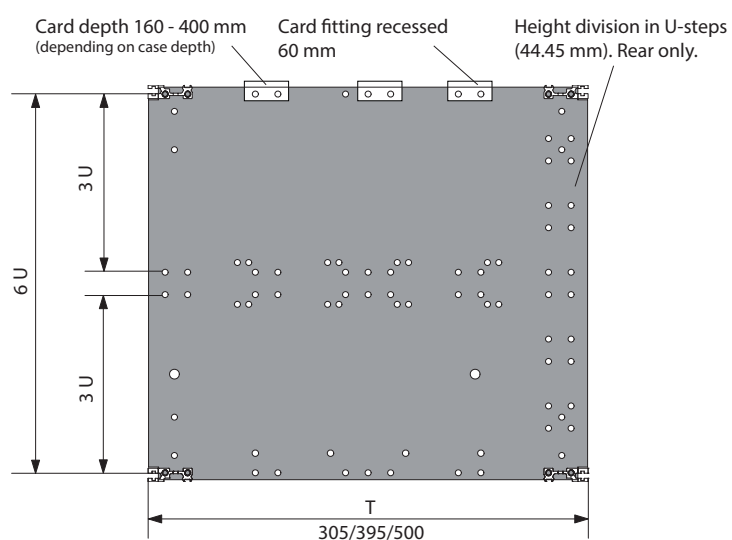
3 U



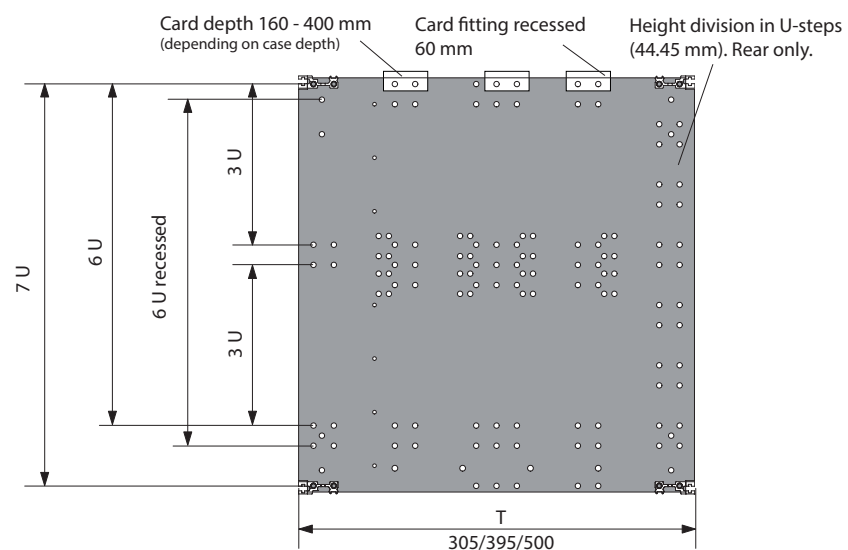
4 U



6 U



7 U





3.3 Adaptation Kits

- Adaptation kits are used to subdivide the Stylebox 15 both in its depths and heights
- The adaptation kits for the flush or recess mounted circuit boards or cassettes include the necessary internal extrusions and assembly materials
- Scope of delivery is shown in blue in the following illustrations

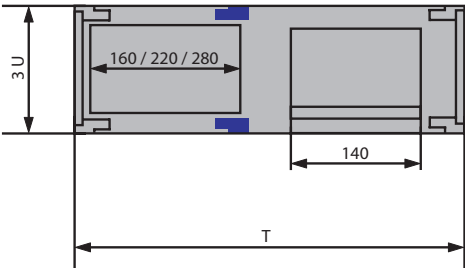
Note:

Information for Adaptation Kits a - e:

- 15-xxx- ☒ for mounting:
- 6 = Extrusion 66-193, for insulated backplane mounting
 - 7 = Extrusion 66-194, for conductive backplane mounting

3.3.1 Adaptation Kits a

- **Range of Application:**
 - Single eurocard depth 160 – 280 mm
 - Motherboard
 - Modules, cassettes, plug-in units
 - Set for horizontal mounting of single, double triple eurocards, depth 160 – 280mm
 - Crossflow ventilation with 3 U fan module
 - Drive mechanism receptacles 3 1/2"/5 1/4"



3.3.1 Adaptation Kits a

- **Scope of delivery:**
 - 2 internal extrusions
 - 2 insulating strips (-6 only)
 - 2 tapped strips M2.5
 - 1 set assembly material, Torx

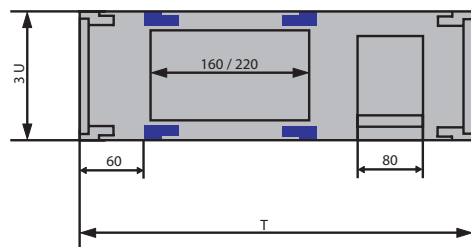
Description	42 HP	63 HP	84 HP
Flush front-mounting of single eurocards	15K041-6	15K031-6	15K011-6
	15K041-7	15K031-7	15K011-7

3: Stylebox 15 e-motion

3.3.2 Adaptation Kits b

• Range of Application:

- Recessed single eurocards, depth 160 – 220 mm
- Without individual front panels
- Motherboard



3.3.2 Adaptation Kits b

• Scope of delivery:

- 4 internal extrusions
- 2 insulating strips (-6 only)
- 2 tapped strips M2.5
- 1 set assembly material, Torx

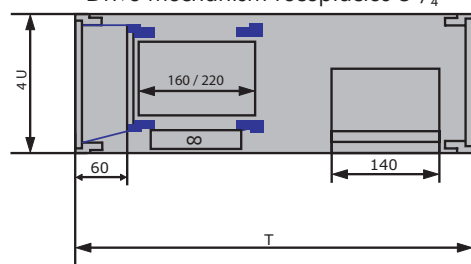
Description	42 HP	63 HP	84 HP
Recessed mounting of single eurocards without front panels	15K042-6	15K032-6	15K012-6
	15K042-7	15K032-7	15K012-7

3.3.3 Adaptation Kits c

- Reduction Kit $\frac{1}{3}$ U + $\frac{2}{3}$ U for 60 mm recessed mounting

• Range of Application:

- Recessed mounting of single eurocards, depth 160 – 220 mm
- With or without individual front panels
- Max. fan height 26 mm
- Motherboard
- Modules, cassettes, plug-in units
- Drive mechanism receptacles $5\frac{1}{4}$ "



3.3.3.1 Adaptation Kits c

• Scope of delivery:

- 2 internal extrusions
- 2 front extrusions 66-111 (IEC) or 66-677 (IEEE)
- 2 insulating strips (-6 only)
- 1 auxiliary cover top
- 1 auxiliary cover bottom
- 4 tapped strips M2.5
- 1 set assembly material, Torx

Description	HP	Part-No.	
		IEC	IEEE
Adaptation kit reduction, solid, without fan panel	84 HP	15K050-6	15K060-6
		15K050-7	15K060-7
Adaptation kit reduction, perforated*, without fan panel		15K051-6	15K061-6
		15K051-7	15K061-7
Adaptation kit reduction, perforated*, with fan panel		15K052-6	15K062-6
		15K052-7	15K062-7

*only bottom part ($\frac{2}{3}$ U) is perforated

3.3.3.2 Additional Fan Plate

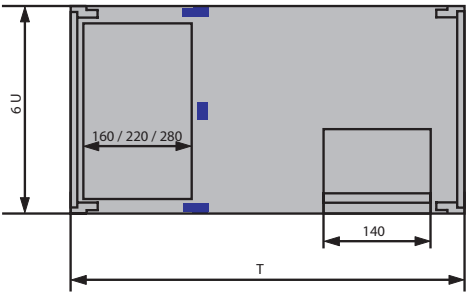
- For easy access and maintenance of the fans
- **Scope of delivery:**
 - 1 fan plate
 - 8 milled edge screws M3 x 5, Torx T10

Description	Part-No.
Additional fan plate incl. 1 set assembly material	12K737

3: Stylebox 15 e-motion

3.3.4 Adaptation Kits d

- **Range of Application:**
 - Double eurocards, depth 160 – 280 mm
 - Motherboard
 - Modules, cassettes, plug-in units
 - Drive mechanism receptacles 3 1/2" / 5 1/4"



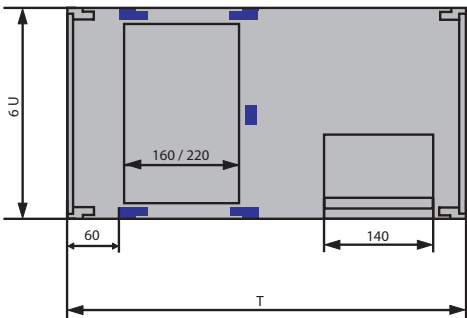
3.3.4 Adaptation Kits d

- **Scope of delivery:**
 - 2 internal extrusions
 - 1 centre extrusion
 - 4 insulating strips
 - 4 tapped strips M2.5
 - 2 sets assembly material, Torx

Description	42 HP	63 HP	84 HP
Flush front-mounting of double eurocards	15K044-6	15K034-6	15K014-6

3.3.5 Adaptation Kits e

- **Range of Application:**
 - Recessed mounting of double eurocards, depth 160 – 220 mm
 - Without individual front panels
 - Motherboard



3.3.5 Adaptation Kits e

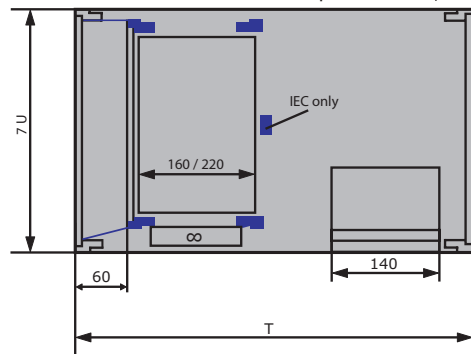
- **Scope of delivery:**
 - 4 internal extrusions
 - 1 centre extrusion
 - 4 insulating strips
 - 4 tapped strips
 - 2 set assembly material, Torx

Description	42 HP	63 HP	84 HP
Recessed mounting of double eurocards without front panels	15K045-6	15K035-6	15K015-6

3: Stylebox 15 e-motion

3.3.6 Adaptation Kits f

- Reduction Kit $\frac{1}{3}$ U + $\frac{2}{3}$ U for 60 mm recessed mounting
- Range of Application:**
 - Recessed mounting of double eurocards, depth 160 – 220 mm
 - With or without individual front panels
 - Max. fan height 26 mm
 - Motherboard
 - Modules, cassettes, plug-in units
 - Drive mechanism receptacles $5\frac{1}{4}$ "



3.3.6.1 Adaptation Kits c

- Scope of delivery:**
 - 2 internal extrusions
 - 2 front extrusions 66-111 (IEC) or 66-677 (IEEE)
 - 2 insulating strips (-6 and IEEE only, if -6 and IEC 4 strips)
 - 1 centre extrusion (IEC only)
 - 1 auxiliary cover top
 - 1 auxiliary cover bottom
 - 4 tapped strips M2.5 (6 pcs. for IEC)
 - 1 set assembly material, Torx

Description	HP	Part-No.	
		IEC	IEEE
Adaptation kit reduction, solid, without fan panel	84 HP	15K053-6	15K060-6
		15K053-7	15K060-7
15K054-6		15K061-6	
15K054-7		15K061-7	
Adaptation kit reduction, perforated*, without fan panel		15K055-6	15K062-6
		15K055-7	15K062-7

*only bottom part ($\frac{2}{3}$ U) is perforated

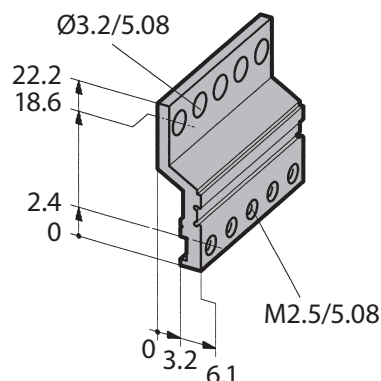
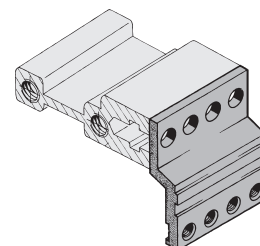
3.3.6.2 Additional Fan Plate

- For easy access and maintenance of the fans
- Scope of delivery:**
 - 1 fan plate
 - 8 milled edge screws M3 x 5, Torx T10

Description	Part-No.
Additional fan plate incl. 1 set assembly material	12K737

3.3.7 Edge Connector Extrusion

- For use with extrusions for backplanes 66-193
- Scope of delivery:**
 - 1 aluminium extrusion, clear passivated (conductive)



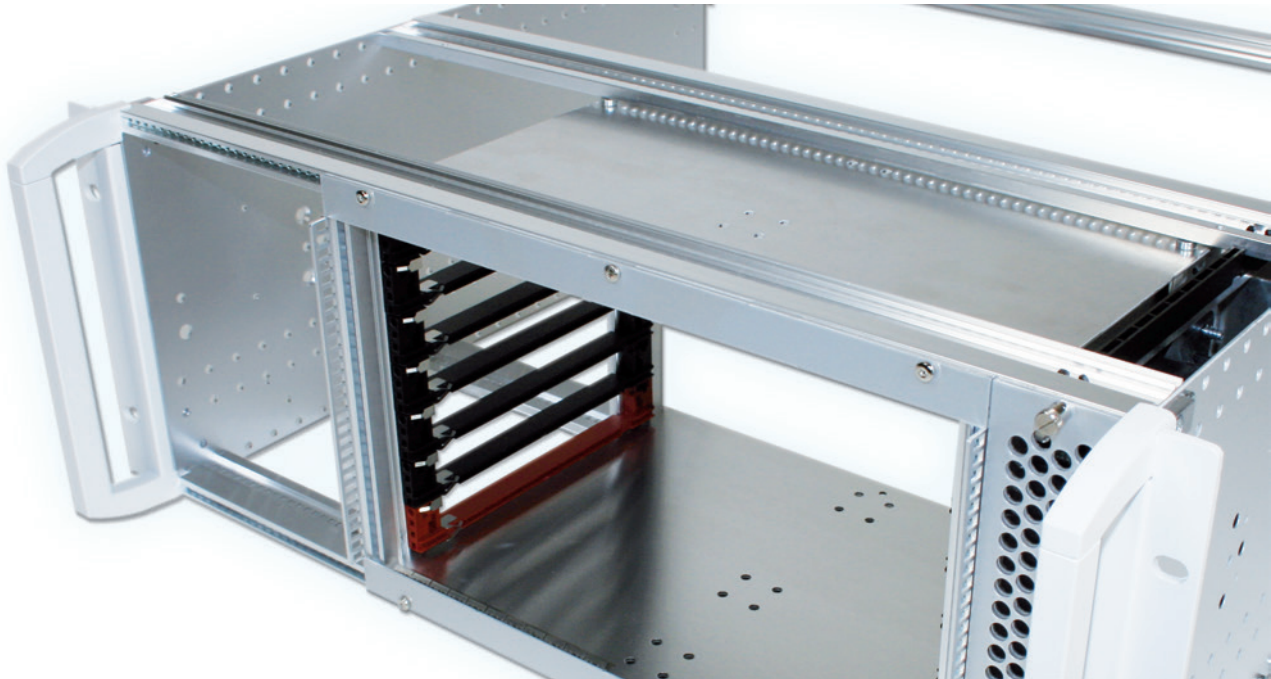
3.3.7 Edge Connector Extrusion

Length			Part-No.	
for HP	mm	inch	clear passivated	raw
8	40.6	1.59	66-147-40	
18	91.4	3.59	66-147-41	
28	142.2	5.60	66-147-42	
42	213.4	8.40	66-147-63	
63	320.0	12.60	66-147-65	
81	411.5	16.20	66-147-22	
84	426.7	16.80	66-147-52	
	1350.0	53.14		66-147-19

Assembly Material

Description	Part-No.
Assembly material M2.5 (for 2 supplementary extrusions)	63-214

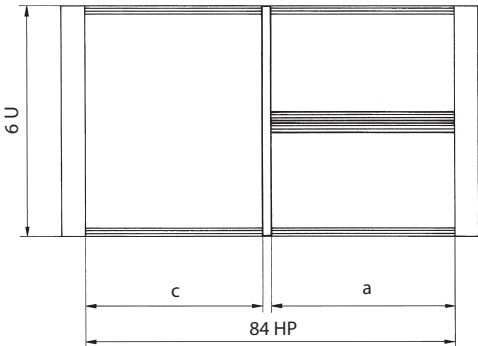
B



3.4 Assembly Accessories

3.4.1 Front Sub Division Vertical for 6 U System or 6 U Assembly

- **Scope of delivery:**
 - 1 divider extrusion front
 - 1 divider extrusion rear
 - 2 front extrusions
 - 2 internal extrusions
 - Assembly material
 - (16 cylinderhead screws M4 x 10, Torx T20
 - (4 cylinderhead screws M3 x 12, Torx T10)
- Tapped strips for front extrusions see below



3.4.1 Front Sub Division Vertical for 6 U System or 6 U Assembly

Nominal width 6 U (c)	Nominal width 2 x 3 U (a)	Part-No. IEC60297	Part-No. IEEE1101.10
50 HP	32 HP	12K959-2	12K959-3
40 HP	42 HP	12K949-2	12K949-3

Tapped Strips for Front Extrusions

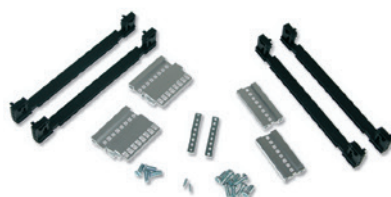
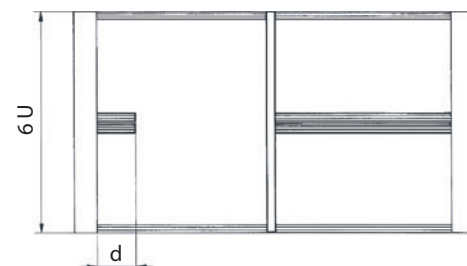
Scope of delivery	Description	Part-No.
1 pc. tapped strip	M2,5 32 HP = 162.56 mm	61-463
1 pc. tapped strip	M2,5 42 HP = 213.36 mm	61-464



3: Stylebox 15 e-motion

3.4.2 EMC Front Sub Divisions Vertical Small

- For dividing 6 U-systems
- Direct mounting onto the height extrusion and side panel
- For width of 4 HP and 8 HP
- Other sizes available upon request
- **Scope of delivery:**
 - 2 divider extrusions front
 - 2 divider extrusions rear
 - 2 tapped strips M2.5
 - 8 cylinder head screws M4 x 10
 - 4 slotted countersunk screws M4 x 10
 - 2 set screws for fixing of tapped strips M2.5 x 8
 - 2 card guides 160mm (4 pcs. for 8 HP version)

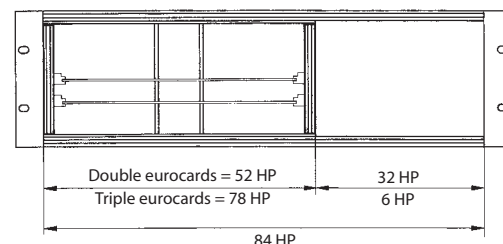


3.4.2 EMC Front Sub Divisions Vertical Small

Description	Part-No. d = 4 HP	Part-No. d = 8 HP
Front sub division vertical small IEEE	80-504-11	80-508-11
Front sub division vertical small IEC	80-204-11	80-208-11

3.4.3 Horizontal Card Mounting Kits for Double Eurocards (6 U)

- For double eurocards (6 U)
- Independent of card depth
- The horizontal card mounting kit can be fitted recessed within the Stylebox 15 by using two additional extrusions
- **Scope of delivery:**
 - 4 distance plates (2 front / 2 rear)
 - 4 length extrusions (2 front / 2 rear)
 - 1 centre extrusion
 - 6 tapped strips M2.5
 - 1 set assembly material
- Top and bottom cover plate when no overall fan front panel (1.4.3.2) is used
- Top and bottom cover plate has to be ordered separately
- Fan front panels for horizontal mounting kits see 1.4.3.2
- Card guides see 1.5.1
- Front panels see 1.6



3.4.3.1 Horizontal Card Mounting Kits

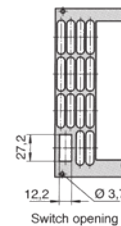
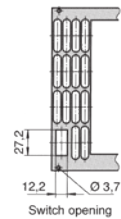
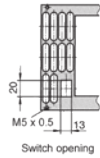
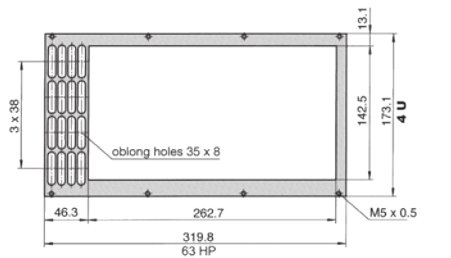
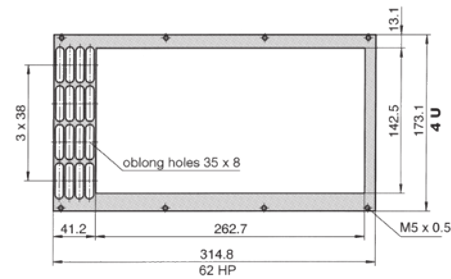
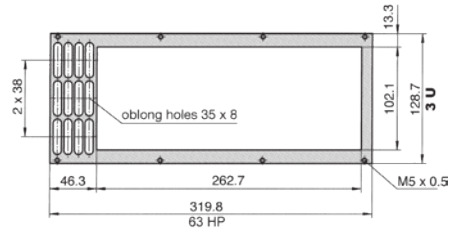
Mounting height	Usable height	Backplane	Cover plate top*	Cover plate bottom*
3 U	20 HP	14K971-60	21N602-90	21N602-90
4 U	28 HP	14K981-60	21N602-90	21N603-90
6 U	48 HP	14K991-60	21N606-90	21N607-90

* Assembly material for cover plate see 1.4.3.2

3: Stylebox 15 e-motion

3.4.3.2 Fan Front Panels for Horizontal Mounting Kits

- For horizontal mounting of double eurocards
- Aluminium 2.5 mm, clear anodised (non-conductive)
- **Scope of delivery:**
 - 1 perforated fan front panel
- Front panel screw see below
- On-off switch see below



3.4.3.2 Fan Front Panels for Horizontal Mounting Kits

	Height	Width	Air passage		Part-No.
			mm ²	sq. in.	
Without switch opening	3 U	63 HP	3195	4.95	21N363-07
With switch opening	3 U	63 HP	2662	4.12	21N363-02

	Height	Width	Air passage		Part-No.
			mm ²	sq. in.	
Without switch opening	4 U	62 HP	4260	6.60	21N462-01
With switch opening	4 U	62 HP	3727	5.77	21N462-02

	Height	Width	Air passage		Part-No.
			mm ²	sq. in.	
Without switch opening	4 U	63 HP	4260	6.60	21N463-07
With switch opening	4 U	63 HP	3727	5.77	21N463-02

Front Panel Screws

- Set of 10 screws
- With threaded or press-fit bush
- 8 screws are necessary per front panel

Description	Part-No. 10 pcs.
Recessed round head screw, M2.5 x 11.3 with threaded bush M5 x0.5	63-129
Recessed round head screw, M2.5 x 11.3 with press-fit bush Ø3.7	63-444

On-Off Switches

- Black body, plastic
- 2 pole (only on-off switches)
- 250V, 16A
- Quick-connect terminal 6.3 x 0.8 mm
- Cut-out for 69-410-05: 13 x 20 mm (0.51" x 0.78")
- Cut-out for others: 12.3 x 27.2 mm (0.48" x 1.07")

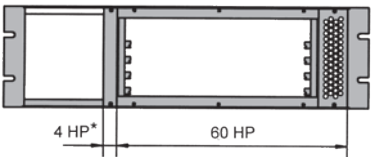
Description	Part-No.
On-off switch, indicator light green	69-410-04
On-off switch, indicator light green (for fan front panel 3 U)	69-410-05
On-off switch, without signal light	69-410-09
Single pole switch with momentary function	69-410-10



3.4.4 EMC Horizontal Card Mounting Kit for Double Eurocards (6 U)

- For 160 mm card depth
- For backplane mounting with insulating strips
- **Scope of delivery:**
 - 1 connector plate
 - 2 + 14 card guides
 - 2 cover plates
 - 2 endplates
 - 2 front extrusions
 - 2 internal extrusions
 - 4 insulating strips
 - 1 fan tray incl. fan
 - 4 tapped strips M2.5
 - 1 set of assembly material
 - 1 set of EMC gaskets
 - 14 ESD Clips and 14 ESD springs (IEEE Version only)

! Fan module has to be on the right side of the horizontal card mounting kit



*This space is necessary for the air flow.
Assemble blind panel or monitoring module



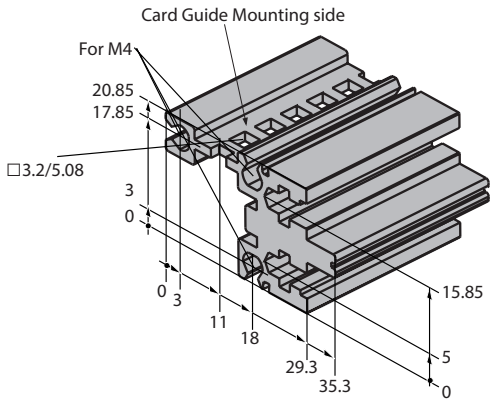
3.4.4 EMC Horizontal Card Mounting Kit for Double Eurocards (6 U)

U	Nominal Height	Part-No.	
		IEEE	IEC
4	28 HP	14K987-60	14K986-60

3.4.5 EMC Front Sub Division

3.4.5.1 EMC Front Sub Division Horizontal IEC for Card Guides

- For sub division of front or rear
- Card guides can be applied
- Superior EMC-level
- Only one special extrusion needed
- Easy and quick assembly
- Cost effective solution
- Delivered in kit form
- Usable width: 84 HP
- Other sizes available on request
- **Scope of delivery:**
 - 1 front double extrusion IEC-Special clear passivated
 - 2 tapped strips M2.5
 - 4 Torx cylinder head screws M4 x 10 (T20)
- For HF spring see below
- For EMC contact strips see below

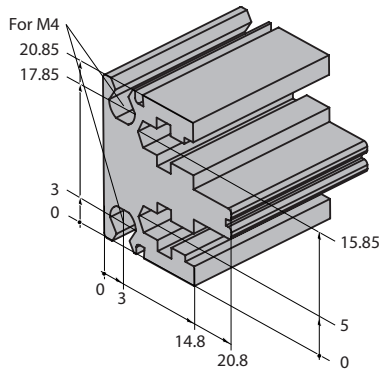


3.4.5.1 EMC Front Sub Division Horizontal IEC

Description	Part-No.
EMC front sub division horizontal IEC for card guides	63K837-24

3.4.5.2 EMC Front Sub Division Horizontal IEC

- For sub division of front or rear
- Without possibility of using card guides
- Superior EMC-level
- Only one special extrusion needed
- Easy and quick assembly
- Cost effective solution
- Delivered in kit form
- Usable width: 84 HP
- Other sizes available on request
- **Scope of delivery:**
 - 1 front double extrusion IEC-Special clear passivated
 - 2 tapped strips M2.5
 - 4 Torx cylinder head screws M4 x 10 (T20)
- For HF spring see below
- For EMC contact strips see below



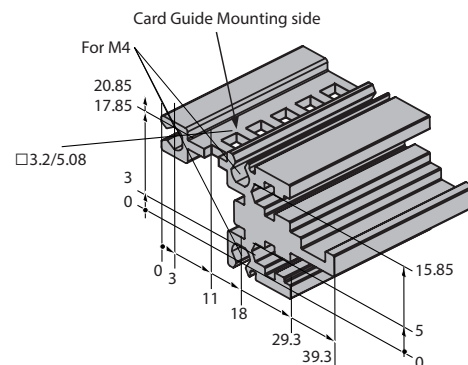
3.4.5.2 EMC Front Sub Division Horizontal IEC

Description	Part-No.
EMC front sub division horizontal IEC	63K837-22

3: Stylebox 15 e-motion

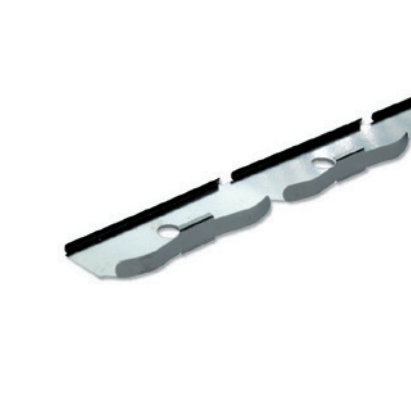
3.4.5.3 EMC Front Sub Division Horizontal IEEE for card guides

- Superior EMC-level
- Only one special extrusion needed
- Card guides can be applied
- Easy and quick assembly
- Cost effective solution
- Usable width: 84 HP
- Other sizes available on request
- **Scope of delivery:**
 - 1 front double extrusion IEEE-Special clear passivated
 - 2 tapped strips M2.5
 - 4 Torx cylinder head screws M4 x 10 (T20)
- For HF spring see below
- For EMC contact strips see below



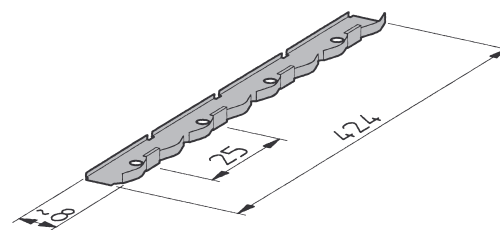
3.4.5.3 EMC Front Sub Division Horizontal IEEE

Description	Part-No.
EMC front sub division horizontal IEEE	63K837-23



HF Spring

- Stainless steel
- Snapped-in on the extrusion
- **Scope of delivery:**
 - 2 HF spring 84 HP

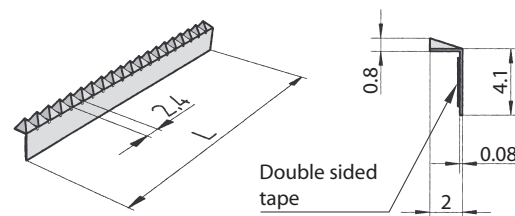


Description	Part-No.
1 set of 2 HF spring 84 HP	7739-14-4



EMC Contact Strip

- BeCu galvanized
- For front panels, fixing on extrusion
- Self-adhesive
- **Scope of delivery:**
 - 2 EMC contact strips



For HP	Length		Part-No.
	mm	inch	
84	424.2	16.70	63-836-70

3: Stylebox 15 e-motion

3.4.6 Mounting Chassis

3.4.6.1 Mounting Chassis Full Depth of Stylebox 15 e-motion

- For mounting non-standard modules and components
- Mounting chassis is fixed directly on the side panels
- Aluminium 2.0 mm, raw
- **Scope of delivery:**
 - 1 mounting chassis
- Assembly material see below
- Mounting chassis depth < 230 mm can be mounted with 4 screws (> 230 mm with 6 screws)



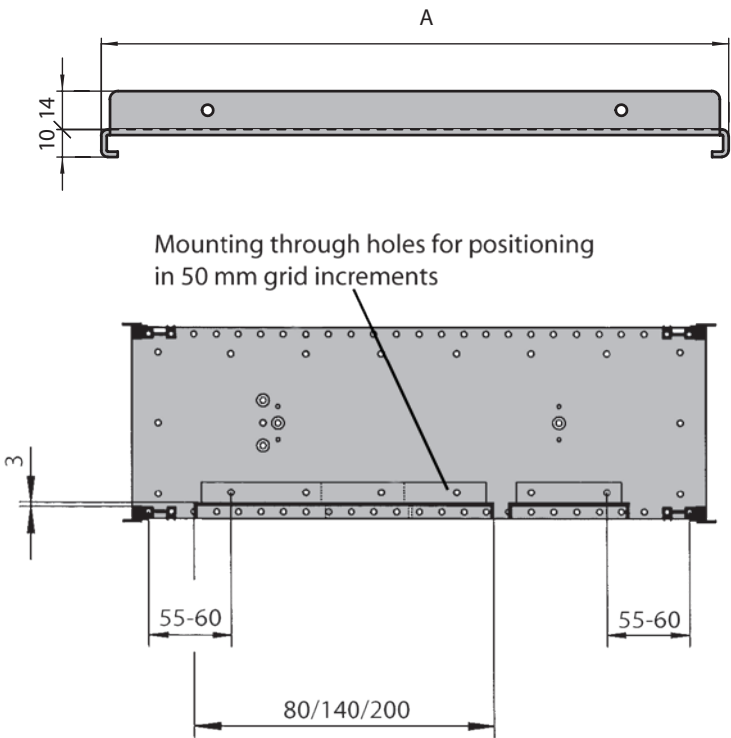
3.4.6.1 Mounting Chassis Full Depth of Stylebox 15 Standard and e-motion

Case Depth		Chassis Depth A		Part-No.		
mm	inch	mm	inch	42 HP	63 HP	84 HP
245	9.64	168	6.61	14M028	14M029	14M030
305	12.00	228	8.97	14M031	14M032	14M033
395	15.55	318	12.52	-	14M034	14M035
500	19.68	428	16.65	-	-	14M036

Assembly Material

- For one mounting chassis
- **Scope of delivery:**
 - 4 Torx cylinder head screw M4 x 6, size T20
 - 4 earthing nut M4

Description	Part-No.
Assembly material for mounting chassis with Torx-Screws	63K861



3: Stylebox 15 e-motion



3.4.6.2 Mounting Chassis Small for Mounting of Power Supplies, etc.

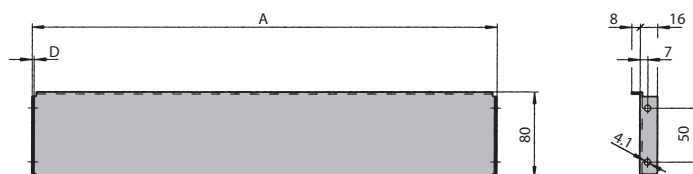
Chassis depth 80 mm

Case Width	A		D		Part-No.
	mm	inch	mm	inch	
84 HP	431.5	16.98	2	0.08	14-832

Assembly Material

- For one mounting chassis
- **Scope of delivery:**
 - 4 Torx cylinder head screw M4 x 6, size T20
 - 4 earthing nut M4

Description	Part-No.
Assembly material for mounting chassis with Torx-Screws	63K861



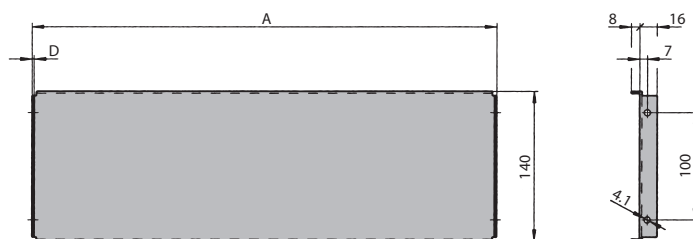
Chassis depth 140 mm

Case Width	A		D		Part-No.
	mm	inch	mm	inch	
42 HP	218.2	8.59	1.5	0.06	14-833
63 HP	324.9	12.79	1.5	0.06	14-834
84 HP	431.5	16.98	2.0	0.08	14-836

Assembly Material

- For one mounting chassis
- **Scope of delivery:**
 - 4 Torx cylinder head screw M4 x 6, size T20
 - 4 earthing nut M4

Description	Part-No.
Assembly material for mounting chassis with Torx-Screws	63K861



3.4.6.3 Mounting Chassis for Horizontal Mounting of Eurocards

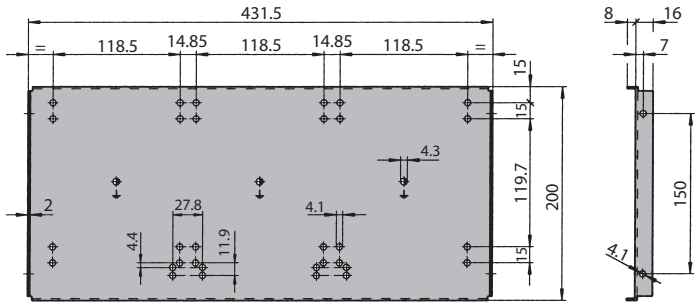
- Chassis depth 200 mm
- The hole pattern allows single, double and triple eurocards to be mounted

Case Width	Part-No.
84 HP	14-840

Assembly Material

- For one mounting chassis
- **Scope of delivery:**
 - 4 Torx cylinder head screw M4 x 6, size T20
 - 4 earthing nut M4

Description	Part-No.
Assembly material for mounting chassis with Torx-Screws	63K861



Mounting Set for One Eurocard

- **Scope of delivery:**
 - 2 Front extrusions
 - 2 Internal extrusions
 - Card guides (2 - 6 pcs.)
 - 2 Tapped strips
 - Assembly Material

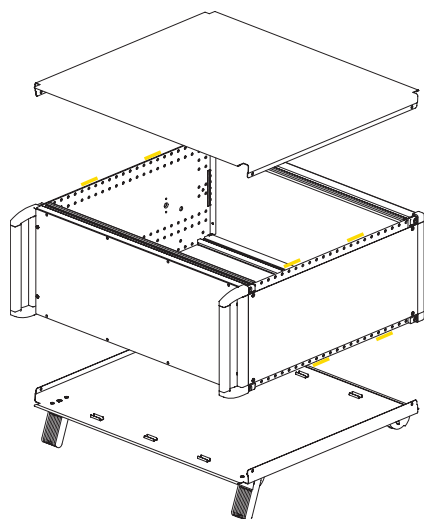
Extrusion Length		Part-No.
4.5 HP	IEC	80-204-11
8.5 HP	IEC	80-208-11
12.5 HP	IEC	80-212-11
4.5 HP	IEEE	80-504-11
8.5 HP	IEEE	80-508-11

3: Stylebox 15 e-motion

3.4.7 EMC Shielding

3.4.7.1 Gaskets for Advanced EMC level (Stylebox 15 e-motion)

- Vertical gaskets for cover plates (partial)
- To achieve an advanced EMC level with Stylebox 15 e-motion
- No additional gaskets for width necessary
- Drawing shows the position of the gaskets

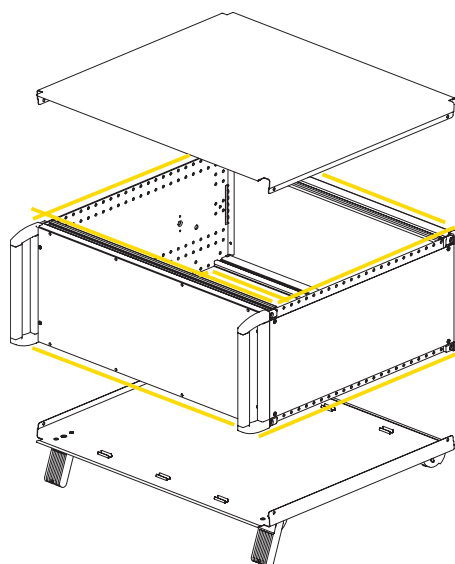


Depth Gaskets for Covers

Case Depth		Scope of Delivery	Part-No.
mm	inch		
245	9.64	4 self-adhesive HF gaskets L = 30 mm	63-836-07
305	12.00	4 self-adhesive HF gaskets L = 30 mm	63-836-07
395	15.55	8 self-adhesive HF gaskets L = 30 mm	63-836-08
500	19.68	12 self-adhesive HF gaskets L = 30 mm	63-836-09

3.4.7.2 Gaskets for Superior EMC level (Stylebox 15 e-motion)

- Vertical and horizontal gaskets for cover plates (overall)
- To achieve superior EMC level with Stylebox 15 e-motion
- Order 1 set each for width and depth
- Drawing shows the position of the gaskets



Width Gaskets for Covers

Width	Scope of Delivery	Part-No.
42 HP	4 self-adhesive HF gaskets L = 216.5 mm	63-836-20
63 HP	4 self-adhesive HF gaskets L = 323 mm	63-836-21
84 HP	4 self-adhesive HF gaskets L = 430 mm	63-836-23

Depth Gaskets for Covers

Depth		Scope of Delivery	Part-No.
mm	inch		
245	9.64	4 self-adhesive HF gaskets L = 195 mm	63-836-10
305	12.00	4 self-adhesive HF gaskets L = 255 mm	63-836-11
395	15.55	4 self-adhesive HF gaskets L = 345 mm	63K836-04
500	19.68	4 self-adhesive HF gaskets L = 445 mm	63K836-05

3.4.7.3 Design front panel

- For front panels, pushing on side panel
- Aluminium, clear passivated
- For additional increase of EMC to advanced level
- **Scope of delivery**
 - 2 EMC front extrusion
 - 2 EMC springs 81-062-xx
 - Assembly material (2 screws Torx T8, adhesive foil)



3.4.7.3 EMC Extrusions Front

System Height	Part-No.
2 U	63-824-62
3 U	63-824-63
4 U	63-824-64
6 U	63-824-66
7 U	63-824-67

3.4.7.6 EMC Contact Strips (Advanced EMC-level)

- For front panels, fixing on extrusion
- Self-adhesive
- **Scope of delivery**
 - 2 contact strips



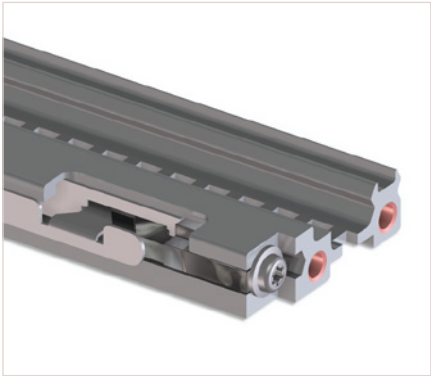
3.4.7.6 EMC Contact Strips

For HP	Length	Part-No.
42	212.1 mm	63-836-67
63	318.1 mm	63-836-68
84	424.2 mm	63-836-70



3.6.2.5 EMC design front panel

- Aluminium 2.5 mm (conductive)
- Closes the front and rear side of the chassis with big shielding effect
- Contact between flat front panel and chassis is made with an EMC gasket



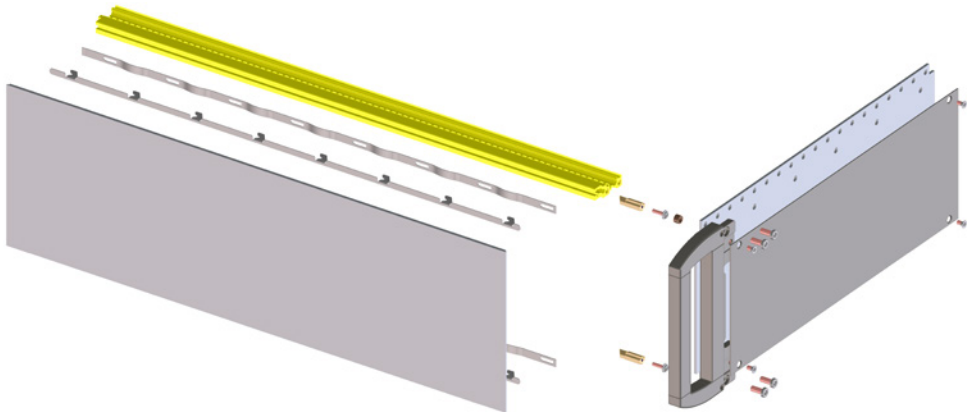
3.6.2.5 EMC design front panel

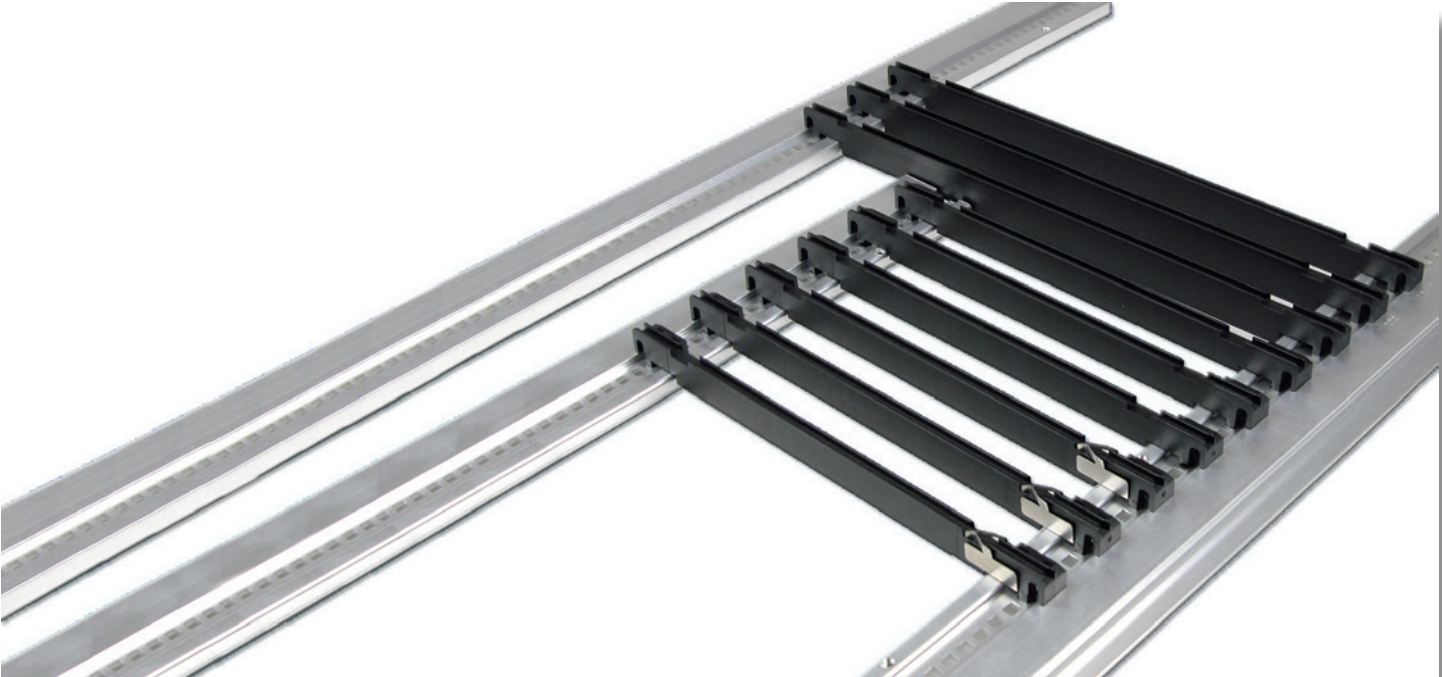
Scope of delivery:

- 1 EMC design front panel
- 2 Plate slider
- 2 Holder
- 2 Locking device
- 2 Filister head screw M2.5 x 40

Width	Part-No. 2 HE	Part-No. 3 HE	Part-No. 4 HE	Part-No. 6 HE	Part-No. 7 HE
42 TE	24B242	24B342	24B442	24B642	24B742
63 TE	24B263	24B363	24B463	24B663	24B763
84 TE	24B284	24B384	24B484	24B684	24B784

Configuration closing device

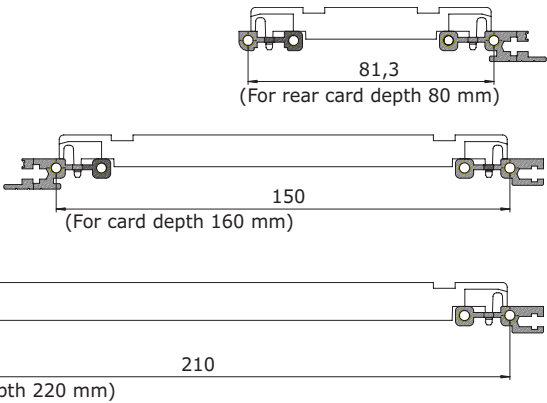




3.5 General Accessories

3.5.1 Card Guides IEC

- For positive location of PCBs and plug-in units conforming to the dimensions of card depths of 80 mm, 160 mm, 220 mm and 280 mm
- The card guides are non-flammable, made from a high quality plastic material reinforced with fibreglass
- Including ESD provisions



3.5.1.1 Card Guides 1-Slot, IEC

- **Scope of delivery:**
 - Card guide black plastic UL94 V-0
 - ESD Clip see below (not usable for card depth 80 mm)

Card Thickness		Card Depth		Part-No. 1 pc.
mm	inch	mm	inch	
1.6	0.06	80	3.15	61-019
		160	6.30	61-044
		220	8.66	61-039
		280	11.02	61-017
2.0	0.08	160	6.30	61-087
		220	8.66	61-039
		280	11.02	61-017

ESD Clips

- Connecting PCB with case
- Stainless steel

Description	Part-No. 1 pc.
ESD clip front bottom/rear top	61-419-01
ESD clip front top/rear bottom	61-419-02



3: Stylebox 15 e-motion



3.5.1.2 Card Guide 7-Slot in 4 HP Steps , IEC

- For reduced assembly time of multiple slot applications
- For use with single, double and triple eurocards with a depth of 160 mm
- For card thickness: 1.6 mm / 0.06"
- Black plastic, UL94 V-0
- ESD Clip not usable

Card Thickness		Card Depth		Part-No. 1 pc.
mm	inch	mm	inch	
1.6	0.06	160	6.30	61-076



3.5.1.3 Aluminium Card Guide 1-Slot, 3 Parts, IEC

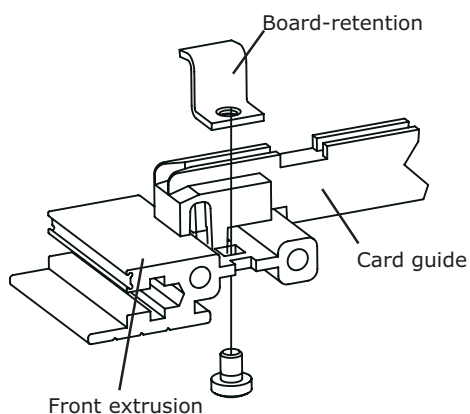
- Extrusion: Aluminium
- End feet: plastic, UL94 V-0
- For card thickness: 1.6 mm / 0.06"
- Card guide extrusion, aluminium, clear anodised
- ESD clip not usable

Extrusion

Card Depth		Length		Part-No. Aluminium
mm	inch	mm	inch	
160	6.30	112.5	4.43	66-122-20
220	8.66	172.5	6.79	66-122-21
280	11.02	232.5	9.15	66-122-22
340	13.38	292.5	11.51	66-122-23
400	15.74	352.5	13.87	66-122-24
-	-	1350	53.15	66-122-14

End Feet

Description	Part-No. 1 Pair
End feet plastic, UL94 V-0	61-069

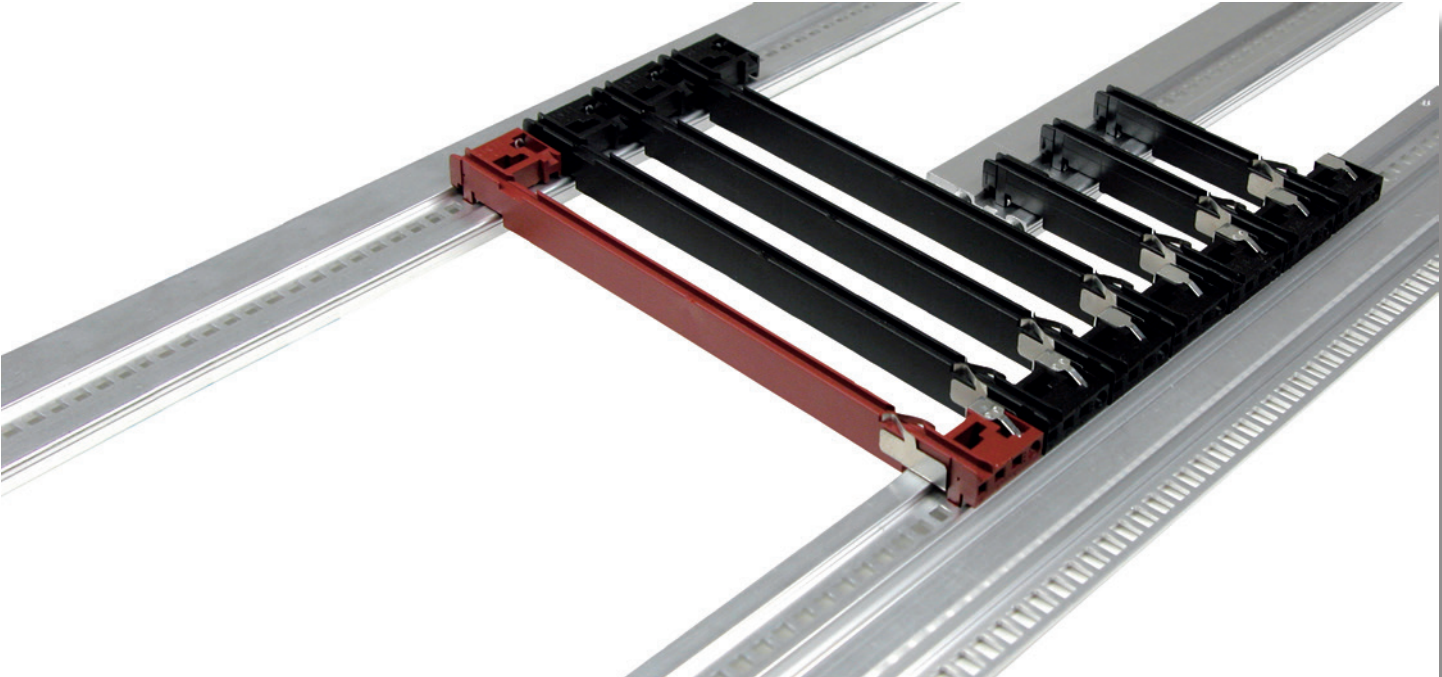


3.5.1.4 Card Guide Board-Retention Bar

Description	Part-No. 20 pcs.
Board-retention bar, zinc-plated steel	61-291

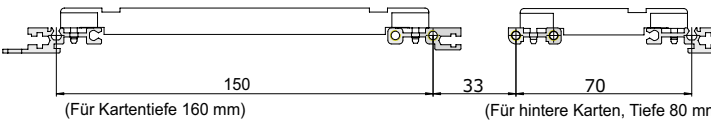
Assembly Material

Description	Part-No. 1 pc.
Cross recessed round head screw M3 x 4 (100 pcs.)	5331-04
Torx cylinder head screw M3 x 4, size T10 (1 pc.)	5470-01



3.5.2 Card Guides acc. to IEEE

- For positive location of PCBs and plug-in units conforming to the dimensions of card depths 80 mm, 160 mm, 220 mm, 280 mm and 340 mm
- The card guides are non-flammable, made from a highquality plastic material reinforced with fibreglass
- With ESD provisions
- With keying and alignment pin possibilities



3.5.2.1 Card Guides 1-Slot, IEEE

- Card thickness 1.6 mm / 0.06" and 2.0 mm / 0.08"
- Plastic UL94 V-0

Card Depth		Colour	Part-No.
mm	inch		1 Pair
80	3.15	black	61-949-01

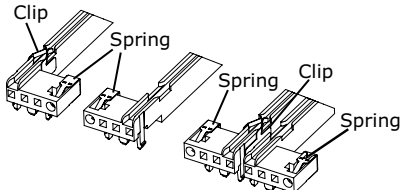
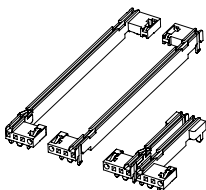
Card Depth		Colour	Part-No.
mm	inch		1 pc.
160	6.30	black	61-950-01
160	6.30	red	61-950-03

3.5.2.2 Card Guides 1-Slot, incl. mounted ESD-Components, IEEE

- Bottom: 1 ESD clip and 1 ESD spring
- Top: 1 ESD spring
- Black plastic UL94 V-0

Card Depth		Description	Part-No.
mm	inch		5 Pairs
80	3.15	1 pair top/bottom	61-949-02

Card Depth		Description	Part-No.
mm	inch		1 pc.
160	6.30	1 piece bottom	61-950-02
160	6.30	1 piece top	61-950-04





3.5.2.3 Aluminium Card Guides 1-Slot, 3 Parts, IEEE

- Extrusion: Aluminium
- End feet: Plastic UL94 V-0
- For card thickness 1.6 mm / 0.06" and 2.0 mm / 0.08"

Extrusion

Card Depth		Part-No.
mm	inch	1 pc.
160	6.30	66-452-20
220	8.66	66-452-25
280	11.02	66-452-30
340	13.38	66-452-35

End Feet

Colour	Part-No.
	1 Pair
Black	61-955-01
Red	61-955-03

End Feet Offset

Colour	Part-No.
	1 Pair
Pearlwhite	61-961-01



3.5.2.4 Aluminium Card Guides 1-Slot, 3 Parts, IEEE

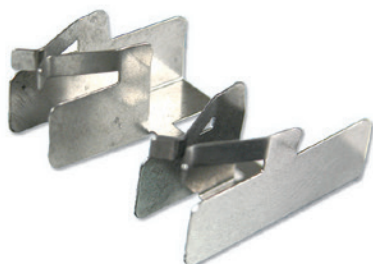
- Extrusion: Aluminium
- End feet: Plastic UL94 V-0
- For card thickness 2.4 mm / 0.094"

Extrusion

Card Depth		Part-No.
mm	inch	1 pc.
160	6.30	66-453-20
220	8.66	66-453-25
280	11.02	66-453-30
340	13.38	66-453-35

End Feet

Colour	Part-No.
	1 Pair
Black	61-956-01



3.5.2.5 ESD Clips

- Connecting printed board with case
- Stainless steel

Description	Part-No.
	1 pc.
ESD clip front bottom/rear top	61-419-01
ESD clip front top/rear bottom	61-419-02



3.5.2.6 ESD Spring

- Connecting ESD pin with case
- BeCu galvanised
- Note: Notch inward-looking

Description	Part-No. 1 pc.
ESD spring	61-420

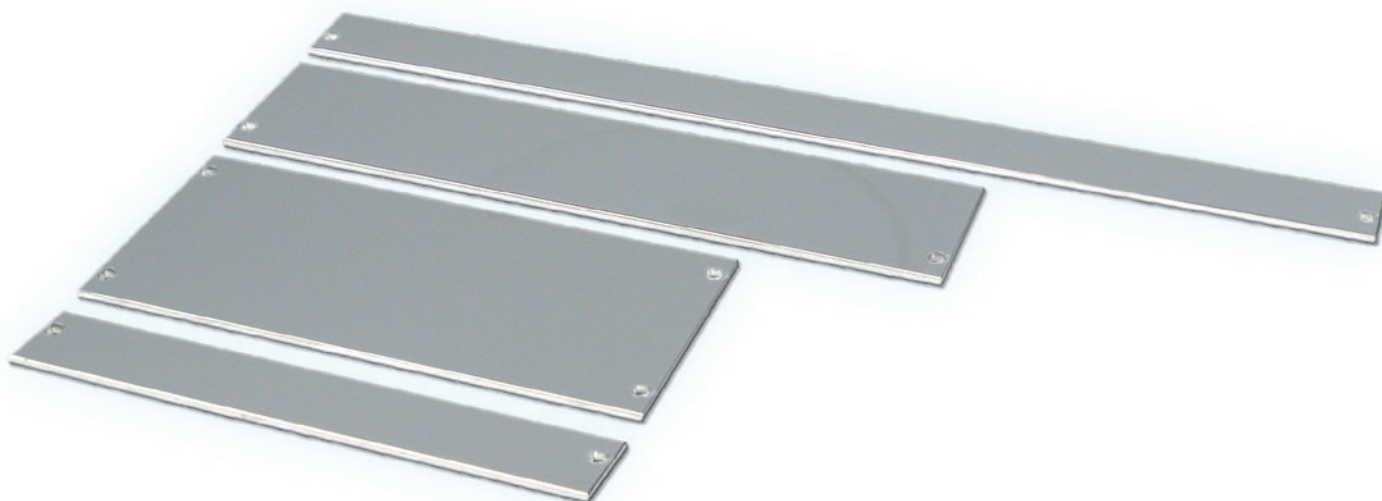


3.5.2.7 Coding Pins

- Acc. to IEC 60297-3-103
- Plastic, UL94 V-0
- Can be rotated in 4 positions

Description	Part-No. 1 pc.
Grey	81-054-02
Dark red	81-054-06
Black	81-054-04

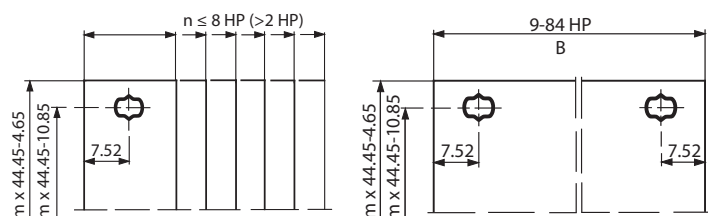
3: Stylebox 15 e-motion



3.6 Front Panels

3.6.1 Flat Front Panels

- For sub racks and enclosures, solid
- Aluminium 2.5 mm, clear anodised (non-conductive)
- **Scope of delivery:**
 - Flat front panel
- Front panel screws, see below
- 1 HP and 2 HP are divider extrusions (not flat panels)



3.6.1 Flat Front Panels for Sub Racks and Enclosures, Solid

Width	B		Height			Part-No.		
	mm	inch	1 U 39.8 mm	ca. 1 U* 42.15 mm	2 U 84.2 mm	3 U 128.7 mm	4 U 173.1 mm	6 U 262.0 mm
1 HP	5.0	0.19	—	—	—	66-115-21	—	66-115-25
2 HP	10.0	0.39	—	—	—	66-107-44	66-107-45	66-107-47
3 HP	15.2	0.59	—	—	—	21N303	21N403	21N603
4 HP	20.1	0.79	—	—	—	21N304	21N404	21N604
5 HP	25.2	0.99	—	—	—	21N305	21N405	21N605
6 HP	30.3	1.19	—	—	—	21N306	21N406	21N606
7 HP	35.3	1.38	—	—	—	21N307	21N407	21N607
8 HP	40.4	1.59	—	—	—	21N308	21N408	21N608
10 HP	50.6	1.99	—	—	—	21N310	21N410	21N610
11 HP	55.7	2.19	—	—	—	21N311	—	—
12 HP	60.7	2.38	—	—	—	21N312	21N412	21N612
14 HP	70.9	2.79	—	—	—	21N314	21N414	21N614
16 HP	81.1	3.19	—	—	—	21N316	21N416	21N616
20 HP	101.4	3.59	—	—	—	21N320	21N420	21N620
21 HP	106.5	4.19	—	—	—	21N321	21N421	21N621
28 HP	142.0	5.59	—	—	—	21N328	—	21N628
32 HP	162.3	6.38	—	—	—	21N332	21N432	—
42 HP	213.1	8.38	—	—	21N242	21N342	21N442	21N642
52 HP	263.9	10.38	—	—	—	21N352	21N452	21N652
63 HP	319.8	12.59	—	—	21N263	21N363	21N463	21N663
81 HP	411.3	16.19	—	—	21N281	21N381	21N481	21N681
84 HP	426.5	16.79	21N184	21N084*	21N284	21N384	21N484	21N684

* Coverplates for 1 U fan opening

Front Panel Screws

- Set of 10 screws, with screw retainer

Description	Part-No. 10 pcs.
Torx screws M2.5 x 11.3, size T8 with plastic screw retainer	63K159
Milled edge screws recessed M2.5 x 11.3 with plastic screw retainer	63-159

3: Stylebox 15 e-motion

3.6.2 EMC Flat Front Panels

3.6.2.1 EMC Filler Panels with EMC Gasket

- High stability (U-profile)
- Extruded aluminium
- Pressed-in centring pin and bushes M2.5
- Front side clear anodised, rear side conductive
- **Scope of delivery:**
 - EMC front panel incl. pressed-in centering pin and bushes M2.5
- EMC-gasket see below
- Front panel screw see below



3.6.2.1 EMC Front Panels

Width	Part-No. 3 U	Part-No. 4 U	Part-No. 6 U
4 HP	66-514-73	66-514-74	66-514-76
5 HP	66-515-73		66-515-76
6 HP	66-516-73	66-516-74	66-516-76
8 HP	66-518-73	66-518-74	66-518-76
9 HP	66-519-73		66-519-76
10 HP	66-520-73		66-520-76
12 HP	66-522-73	66-522-74	66-522-76
14 HP	66-534-73		66-534-76

EMC Gasket (Stainless Steel)

Height	Part-No. 1 pc.	Part-No. 1 pcs.
3 U	81-062-03	81-062-03
4 U	81-062-04	81-062-04
6 U	81-062-06	81-062-06

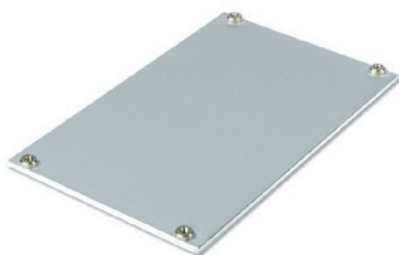
Front Panel Screws

- Front panel width up to 9 HP = 2 screws; ≥ 10 HP = 4 screws

Description	Part-No. 1 pc.
Torx screw, M2.5 x 11.3, size T8	5443-08
Round head screw, cross recessed M2.5 x 12.7	61-287

3.6.2.2 EMC Filler Panels without EMC-Gasket

- Front panel standard, solid
- Front clear anodised
- Rear conductive
- Basic level EMC
- **Scope of delivery:**
 - 1 front panel incl. press-fit bushes M2.5 (pressed-in)
- Front panel screws, see below
- Spacer see next page



3.6.2.2 EMC Filler Panels without Gasket

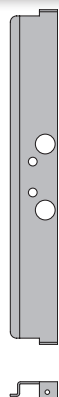
Width	Part-No. 3 U	Part-No. 4 U	Part-No. 6 U
4 HP	21B304		
10 HP	21B310		
12 HP	21B312		
16 HP	21B316	21B416	
21 HP	21B321	21B421	21B621
42 HP	21B342	21B442	21B642
63 HP	21B363	21B463	
84 HP	21B384	21B484	21B684

Front Panel Screws

- Front panel width up to 9 HP = 2 screws; ≥ 10 HP = 4 screws

Description	Part-No. 1 pc.
Torx screw, M2.5 x 11.3, size T8	5443-08
Round head screw, cross recessed M2.5 x 12.7	61-287

3: Stylebox 15 e-motion



Holes in some cases needed for mounting telescopic rails

Spacer for EMC Front Panels Flat

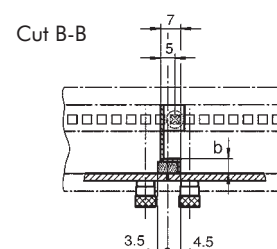
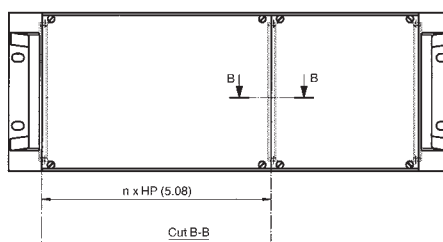
- EMC-Level: Advanced
- **Scope of delivery:**
 - 1 spacer incl. gasket
 - 2 Torx sheet metal screws 2.9 x 6.5; size T 10

Height	Part-No.
3 U	81K023
4 U	81K024
6 U	81K026
7 U	81K027

Optional Cross Recessed Screws for Spacer

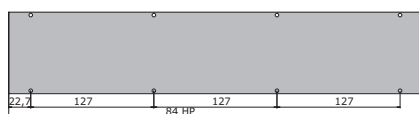
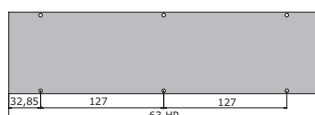
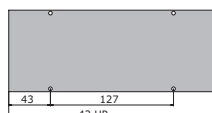
(2 Torx round head screws as standard included, 2 screws are needed)

Description	Part-No.
1 Torx round head screw 2.9 x 6.5 mm	5587-06



3.6.2.3 EMC Flat Front Panels

- Aluminium 2.5 mm (conductive)
- Closes the front or rear of the sub rack with very high shielding effectiveness
- Contact between the flat front panel and the case is made via EMC gaskets

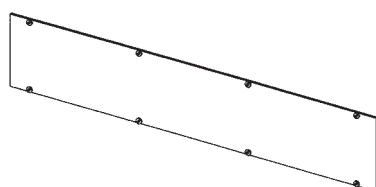


3.6.2.3 EMC Flat Front Panels Advanced EMC Level

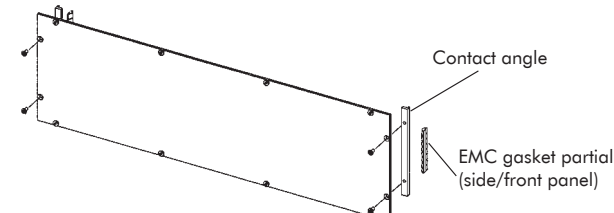
- **Scope of delivery:**
 - EMC flat front panel
 - Contact angle, incl. screws (4 + 6 U version only)
 - EMC gasket for contact angle (4 + 6 U version only)
- Front panel screws see below
 - Front panel width 42 HP = 4 screws
 - Front panel width 63 HP = 6 screws
 - Front panel width 84 HP = 8 screws

Width	Part-No. 1 U	Part-No. 2 U	Part-No. 3 U	Part-No. 4 U	Part-No. 6 U
42 HP		21C242	21C342		
63 HP		21C263	21C363	21C463	
84 HP	21C184	21C284	21C384	21C484	21C684

1 U - 3 U



4 U - 6 U



Front Panel Screws

Description	Part-No. 10 pcs.
Torx screws M2.5 x 11.3, size T8, with press-fit bush	63K480
Screw recessed M2.5 x 11.3, with press-fit bush	63-444
Screw cross recessed M2.5 x 12.7, with press-fit bush	63-480

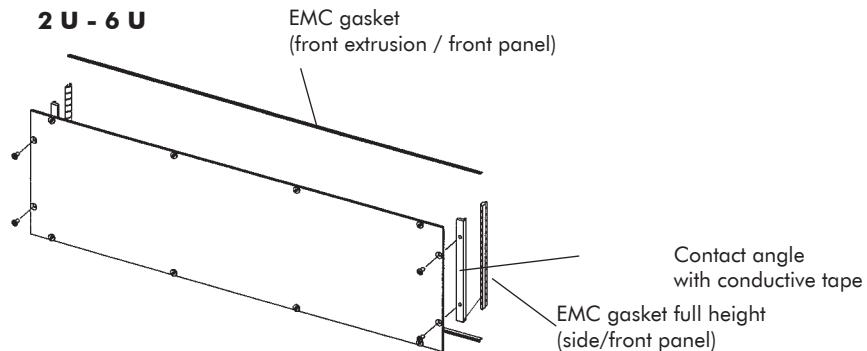
3: Stylebox 15 e-motion

3.6.2.3 EMC Flat Front Panels Superior EMC Level

• Scope of delivery:

- EMC flat front panel
- Contact angle, incl. screws
- EMC gasket for contact angle
- EMC gasket for front extrusion/front panel
- Front panel screws, see below
 - Front panel width 42 HP = 4 screws
 - Front panel width 63 HP = 6 screws
 - Front panel width 84 HP = 8 screws

2 U - 6 U



Width	Part-No. 2 U	Part-No. 3 U	Part-No. 4 U	Part-No. 6 U
42 HP	21D242	21D342		
63 HP	21D263	21D363	21D463	
84 HP	21D284	21D384	21D484	21D684

Front Panel Screws

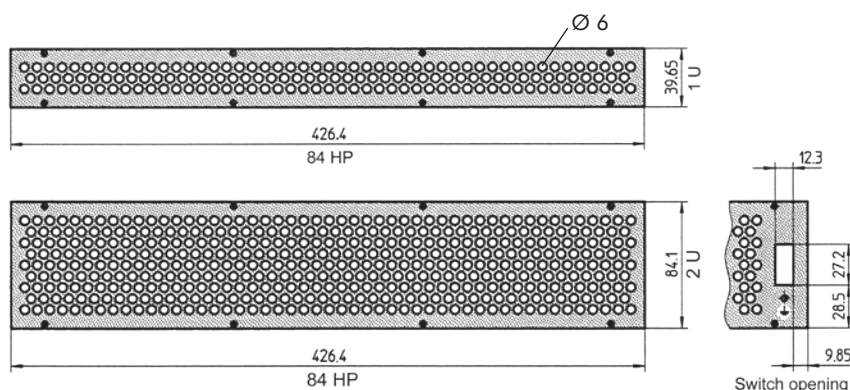
Description	Part-No. 10 pcs.
Torx screws M2.5 x 11.3, size T8, with press-fit bush	63K480
Screw recessed M2.5 x 11.3, with press-fit bush	63-444
Screw cross recessed M2.5 x 12.7, with press-fit bush	63-480

3.6.2.4 Perforated EMC Front Panels 84 HP

- Front anodised, rear conductive
- Advanced EMC level
- Width: 84 HP

• Scope of delivery:

- Perforated flat front panel
- Front panel screws see below
- On-off switch see below



3.6.2.4 Perforated EMC Front Panels 84 HP

Height			Air Passage	Switch Opening	
				Part-No. with	Part-No. without
1 U	39.65 mm	1.56"	4'100 mm ²	21C184-01	
2 U	84.1 mm	3.31"	12'300/11'700 mm ²	21C284-01	21C284-02

Front Panel Screws

Description	Part-No. 10 pcs.
Torx screws M2.5 x 11.3, size T8, with press-fit bush	63K480
Screws recessed M2.5 x 11.3, with press-fit bush	63-444
Screws cross recessed M2.5 x 12.7, with press-fit bush	63-480

On-Off Switches

- Black body, plastic
- 2 pole (only on-off switches)
- 250V, 16A
- Quick-connect terminal 6.3 x 0.8 mm
- Cut-out: 12.3 x 27.2 mm (0.48" x 1.07")

Description	Part-No.
On-off switch, indicator light green	69-410-04
On-off switch, without signal light	69-410-09
Single pole switch with momentary function	69-410-10

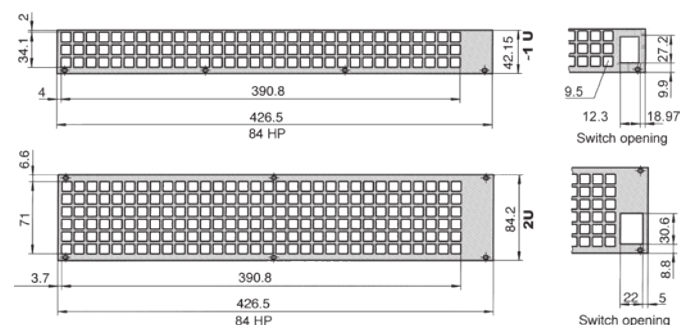




3.6.3 Fan Front Panels

3.6.3.1 Fan Front Panels 84 HP for Vertical Ventilation

- Fan front panels are flat, perforated and designed to ensure an optimum air flow rate
- Available with or without switch cut-out (switch opening 22 x 30.6 mm)
- Aluminium 2.5 mm, clear anodised (non-conductive)
- Scope of delivery:**
 - 1 perforated fan front panel
- Front panel screws see below
- On-off switch see below



3.6.3.1 Fan Front Panels 84 HP for Vertical Ventilation

Description	Height	Air passage		Part-No.
		mm ²	sq. inch	
Without switch opening	~ 1 U	8664	13.42	21N084-01
With switch opening	~ 1 U	8664	13.42	21N084-02
Without switch opening	2 U	17328	26.85	21N284-01
With switch opening	2 U	17328	26.85	21N284-02

Front Panel Screws

- Set of 10 screws
- With screw retainer
- Fan front panel ~ 1 U = 4 screws; 2 U = 6 screws

Description	Part-No. 10 pcs.
Torx screws M2.5 x 11.3, size T8, with plastic screw retainer	63K159
Milled edge screws recessed M2.5 x 11.3, with plastic screw retainer	63-159

On-Off Switches

- Black body, plastic
- 2 pole (only on-off switches)
- 250V, 16A
- Quick-connect terminal 6.3 x 0.8 mm
- Cut-out for 4426-00: 22 x 30.6 mm (0.87" x 1.20")
- Cut-out others: 12.3 x 27.2 mm (0.48 x 1.07")

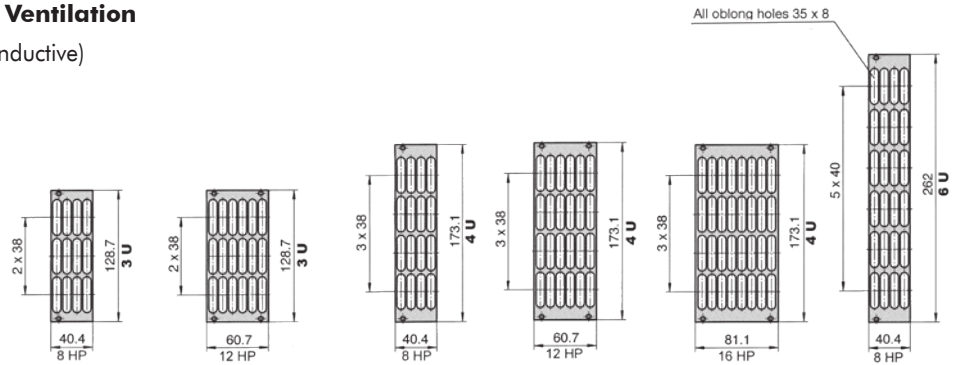
Description	Part-No.
On-off switch, indicator light transparent	7726-00
On-off switch, indicator light green	69-410-04
On-off switch, without signal light	69-410-09
Single pole switch with momentary function	69-410-10



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3.6.3.2 Fan Front Panels for Horizontal Ventilation

- Aluminium 2.5 mm, clear anodised (non-conductive)
- Scope of delivery:**
 - 1 perforated fan front panel
- Front panel screws see below



3.6.3.2 Fan Front Panels for Horizontal Ventilation

Height	Width	Air passage		Part-No.
		mm ²	sq. inch	
3 U	8 HP	3195	4.95	21N308-01
	12 HP	4793	7.42	21N312-01
4 U	8 HP	4260	6.60	21N408-01
	12 HP	6390	9.90	21N412-01
	16 HP	8520	13.20	21N416-01
6 U	8 HP	6390	9.90	21N608-01
	12 HP	9586	14.85	21N612-01

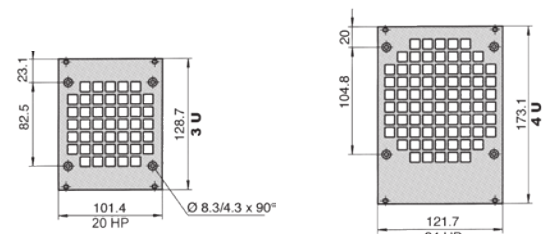
Front Panel Screws

- Set of 10 screws
- With screw retainer
- Fan front panel width up to 8 HP = 2 screws; ≥ 12 HP = 4 screws

Description	Part-No. 10 pcs.
Torx screws M2.5 x 11.3 , size T8, with plastic screw retainer	63K159
Milled edge screws recessed M2.5 x 11.3, with plastic screw retainer	63-159

3.6.3.3 Fan Front Panels for Direct Fan Mounting

- Aluminium 2.5 mm, clear anodised (non-conductive)
- Scope of delivery:**
 - 1 perforated fan front panel
- Front panel screws see below
- Assembly material for fan mounting has to be ordered separately



3.6.3.3 Fan Front Panels for Direct Fan Mounting

Description	Height	Width	Air passage		Part-No. 1 pc.
			mm ²	sq. inch	
Without switch opening	3 U	20 HP	4051	6.27	21N320-04
	4 U	24 HP	7022	10.88	21N424-03

Front Panel Screws

- Set of 10 screws
- With screw retainer
- Per front panel 4 screws are needed

Description	Part-No. 10 pcs.
Torx screws M2.5 x 11.3 , size T8, with plastic screw retainer	63K159
Milled edge screws recessed M2.5 x 11.3, with plastic screw retainer	63-159

Assembly Material for Fan Mounting

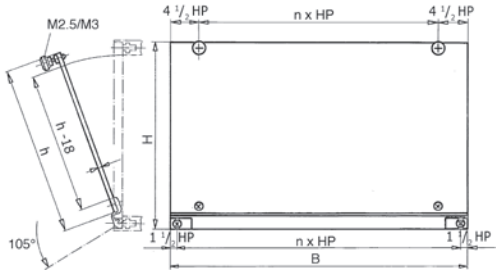
Description	Part-No. 1 pc.
Countersunk screw, recessed M4 x 10	5342-10
Hexagonal nut M4, 0.8D	5620-51



3.6.4 Hinged Front Panels

3.6.4.1 Top / Bottom-Hinged Front Panels

- Hinges are attached to the front extrusions of the sub rack or case
- Aluminium 2.5 mm, clear anodised (non-conductive)
- **Scope of delivery:**
 - Front panel
 - Hinge extrusion
 - Assembly material M2.5, incl. hinges



3.6.4.1 Top/Bottom-Hinged Front Panels

Width	Part-No. 3 U	Part-No. 4 U	Part-No. 6 U
63 HP	25N363-19	25N463-19	
84 HP	25N384-19	25N484-19	25N684-19

Dimensions

HP	Nominal Width		Width B	
	mm	inch	mm	inch
63 HP	320.04	12.60	319.8	12.59
84 HP	426.72	16.80	426.5	16.79

Nominal Height U	Height H		Height h	
	mm	inch	mm	inch
3 U	128.7	5.07	117	4.61
4 U	173.15	6.81	161.4	6.35
6 U	262.05	10.31	250.3	9.85

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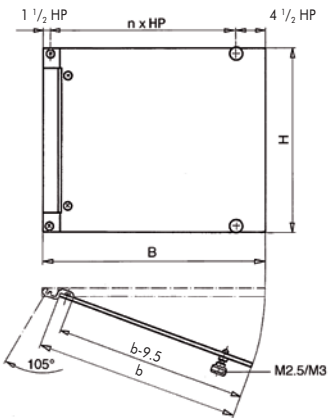
3.6.4.2 EMC Top / Bottom-Hinged Front Panels

- Width: 84 HP
- Offers optimum protection from electromagnetic interference
- Aluminium 2.5 mm, front anodised, rear conductive
- **Scope of delivery:**
 - EMC front panel
 - Hinge extrusions
 - Assembly material M2.5, incl. hinges
 - EMC gaskets



3.6.4.2 EMC Top / Bottom-Hinged Front Panels

EMC Level	Part-No. 3 U	Part-No. 4 U	Part-No. 6 U
Advanced	25C384-11	25C484-11	25C684-11
Superior	25D384-11	25D484-11	25D684-11



3.6.4.3 Side-Hinged Front Panels

- Aluminium 2.5 mm, clear anodised (non-conductive)
- **Scope of delivery:**
 - Front panel
 - Hinge extrusion
 - Assembly material M2.5, incl. hinges



3.6.4.3 Side-Hinged Front Panels

Width	Part-No. 3 U	Part-No. 4 U	Part-No. 6 U
42 HP	25N342-29		
63 HP	25N363-29		
84 HP	25N384-29	25N484-29	25N684-29

Dimensions

HP	Nominal Width		Width B		Width b	
	mm	inch	mm	inch	mm	inch
42 HP	213.36	8.40	213.1	8.39	201	7.91
63 HP	320.04	12.60	319.8	12.59	307.7	12.11
84 HP	426.72	16.80	426.5	16.79	414.3	16.31

Nominal Height U	Height H	
	mm	inch
3 U	128.7	5.06
4 U	173.15	6.81
6 U	262.05	10.31

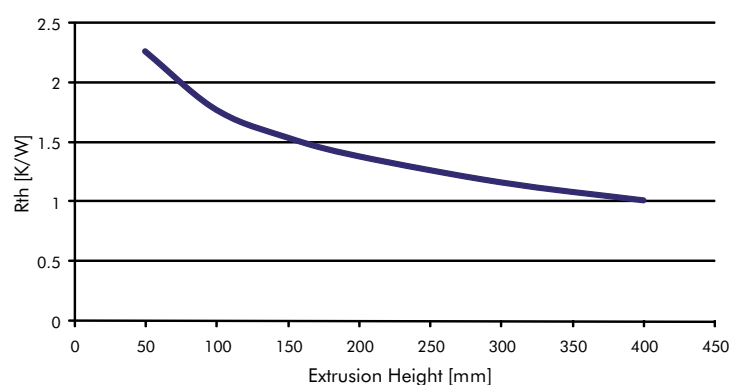
Use Elma’s front panel service for machining and screen printing of your panels see Elmaset chapter F!



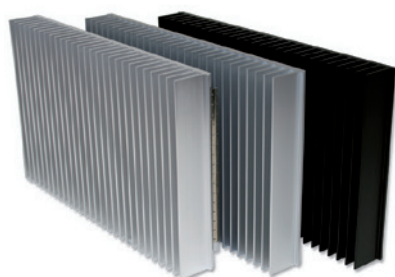
3.6.5 Heat Sink Front Panels

- For sub racks and enclosures
- Width 42 HP
- Cooling fins in pitch of 1½ HP
- Aluminium anodised or clear passivated
- EMC version with mounted brackets for slide in of EMC gaskets 81-062-xx
- Thermal resistance see diagram
- Customised versions on request
- **Scope of delivery:**
 - 1 heat sink front panel
- Assembly material see below
- EMC gasket see below

Thermal Resistance



3.6.5 Heat Sink Front Panels



Description	Surface	Width	Height	Part-No.
Heat sink front panel	Clear anodised	42 HP	3 U	66-100-71
Heat sink front panel	Black anodised	42 HP	3 U	66-100-72
EMC heat sink front panel	Clear passivated	42 HP	3 U	21F342

Assembly Material

- Per heat sink front panel 6 screws are needed

Description	Part-No. 1 pc.
Torx cylinder head screw M2.5 x 10, size T8	5470-09
Cross recessed cylinder head screw M2.5 x 10	5325-10

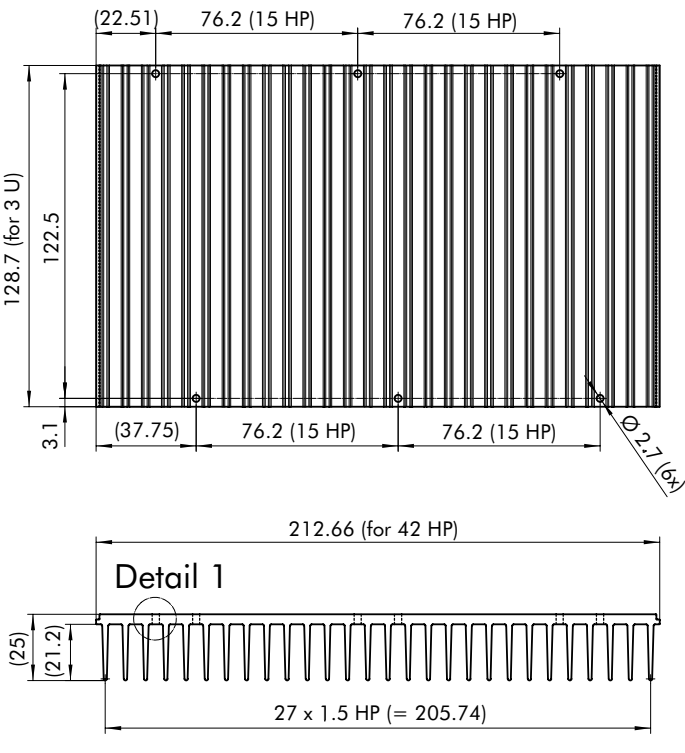
3: Stylebox 15 e-motion

EMC Gasket

- Stainless steel

For Height	Length		Part-No. 1 pc.
	mm	inch	
3 U	101.6	4.00	81-062-03

Drawing Heat Sink Front Panel 66-100-71

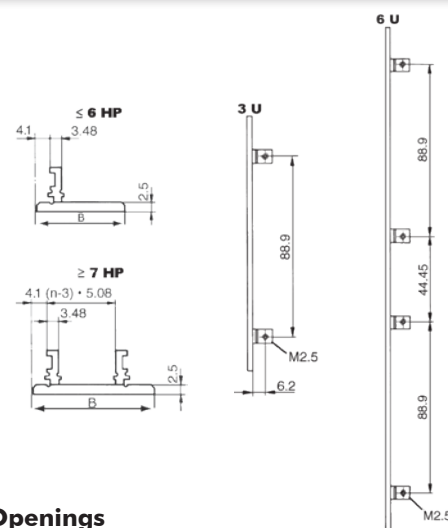




3.6.6 Plug-In Units acc. to IEC

3.6.6.1 Extruded Front Panels

- Aluminium 2.5 mm, clear anodised (non-conductive)
- PCB mounting lugs are formed on the rear face of the panel
- No PCB fixing screws on the front face of the panel, leaving more space for silk screening and mounting front panel components
- Suitable for all sub racks and cases
- Thickness of the mounting lugs (3.48 mm) allows PCBs to be mounted on either side of the lugs
- Drill marks at rear for handle-fixing holes
- Scope of delivery:**
 - Extruded front panel, clear anodised
 - Front panel screws see below



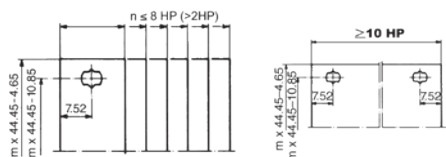
3.6.6.1 Extruded Front Panels, without Openings

Width	mm	B	Part-No.	Part-No.	Part-No.
		inch	3 U	4 U	6 U
3 HP	15.0	0.59	26N303		26N603
4 HP	20.1	0.79	26N304	26N404	26N604
5 HP	25.2	0.99	26N305	26N405	26N605
6 HP	30.3	1.19	26N306	26N406	26N606
7 HP	35.3	1.38	26N307	26N407	26N607
8 HP	40.4	1.59	26N308	26N408	26N608
10 HP	50.6	1.99	26N310	26N410	26N610
12 HP	60.7	2.38	26N312	26N412	26N612
14 HP	70.9	2.79	26N314	26N414	26N614
16 HP	81.1	3.19	26N316	26N416	26N616
21 HP	106.5	4.19	26N321	26N421	

Front Panel Screws

- Set of 10 screws
- With screw retainer
- Front panel width up to 9 HP = 2 screws; ≥ 10 HP = 4 screws

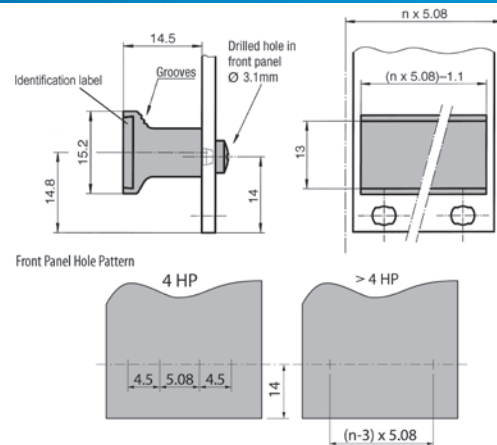
Description	Part-No.
	10 pcs.
Torx screws M2.5 x 11.3 , size T8, with plastic screw retainer	63K159
Milled edge screws recessed M2.5 x 11.3, with plastic screw retainer	63-159



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Rigid-Mounted Unit Handles with Identification Label

- Black, plastic UL94 V-0, label aluminium anodised
- Scope of delivery:**
 - Rigid-mounted handle
 - Identification label
- Assembly material see below



Rigid-Mounted Handles with Identification Label

Width	Scope of Delivery	Part-No.
4 HP top*	5 pcs.	60-200-01
4 HP bottom*	5 pcs.	60-200-02
4 HP	10 pcs.	60-200-04
5 HP	10 pcs.	60-200-05
6 HP	10 pcs.	60-200-06
7 HP	10 pcs.	60-200-07
8 HP	10 pcs.	60-200-08
10 HP	10 pcs.	60-200-10
12 HP	10 pcs.	60-200-12
14 HP	1 pc.	60-200-14
21 HP	1 pc.	60-200-21

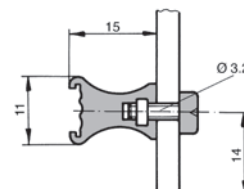
- Other sizes (up to 84 HP) are available upon request
- * (Flat front panel with card holder)

Assembly Material

Description	Part-No.
Recessed round head screw	61-276

Fluted Handles

- Extruded aluminium handles, shaped to facilitate withdrawal of plug-in units
- Two grooves in the front face will accept identification strips (0.5 x 9 mm)
- Scope of delivery:**
 - Extruded handle, clear anodised
 - Assembly material



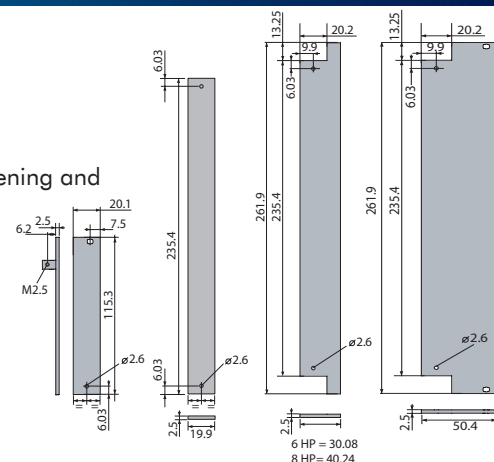
Fluted Handles for Front Panels to IEC

Front Panel	Width		Handle Length		Part-No.
	Width HP	mm	inch	mm	inch
	3 HP	15.0	0.59	12.5	0.49
	4 HP	20.1	0.79	17.6	0.69
	5 HP	25.2	0.99	22.6	0.88
	6 HP	30.3	1.19	27.7	1.09
	7 HP	35.3	1.38	33.5	1.31
	8 HP	40.4	1.59	37.9	1.49
	10 HP	50.6	1.99	48.0	1.88
	12 HP	60.8	2.39	58.2	2.29
	14 HP	70.9	2.79	69.1	2.72
	16 HP	81.1	3.19	78.5	3.09
	20 HP	101.4	3.99	98.8	3.88
	21 HP	106.5	4.18	104.6	4.11
	27 HP	137.0	5.39	134.4	5.29
	30 HP	152.2	5.99	149.6	5.88
	40 HP	203.0	7.99	200.4	7.88
	60 HP	304.6	11.99	302.0	11.88
	84 HP	426.5	16.79	424.0	16.69

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3.6.6.2 Front Panels with Cut-outs for IEC Ejector Handles

- Aluminium 2.5 mm, clear anodised (non-conductive)
- Upper PCB mounting lug is formed on the rear face of the panel (3 U-Version only)
- No PCB fixing screws on the front face of the panel, leaving more space for silk screening and mounting front panel components
- Suitable for all sub racks and cases
- 3 U front panels prepared for one handle
- 6 U front panels prepared for two handles
- Scope of delivery:**
 - Front panel, clear anodised
- Front panel screws see below (for 3 U-Version only)
- IEC ejector handles, see below



3.6.6.2 Front Panels with Cut-outs for IEC Ejector Handles

Width	B	Part-No.	Part-No.
	mm	3 U	6 U
4 HP	20.0	26N304-51	21N604-51
6 HP	30.2		21N606-51
8 HP	40.3		21N608-51
10 HP	50.5		21N610-51

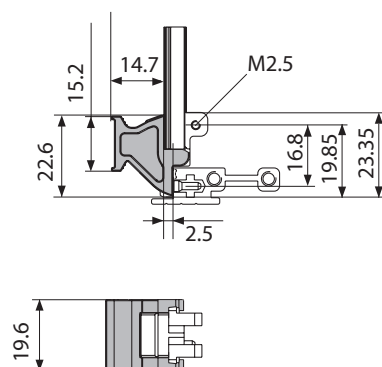
Front Panel Screws (for 3 U-Version only)

- Set of 10 screws
- With screw retainer
- Front panel 3 U = 1 screw

Description	Part-No.
Torx screws M2.5 x 11.3, size T8, with plastic screw retainer	63K159
Milled edge screws recessed M2.5 x 11.3, with plastic screw retainer	63-159

3.6.6.3 Ergonomic Ejector Handles acc. to IEC

- Simple assembly of plug-in units
- Allows trouble-free extraction of electronic units with multi-pole connectors
- Main features in one part: card holder, ejector handle and centering pin
- Reset spring for safe insertion
- One version for top and bottom only
- Handle is injection moulded, glass-reinforced plastic, UL94 V-0
- Card holder is zinc die-cast, nickel plated
- Reset spring is stainless steel
- Scope of delivery:**
 - Ejector handle
 - Assembly material (cross recessed screws M2.5 for fixing of card holder/printed board/front panel)
- Front panel with special cut-outs have to be ordered separately



3.6.6.3 Ejector Handles acc. to IEC

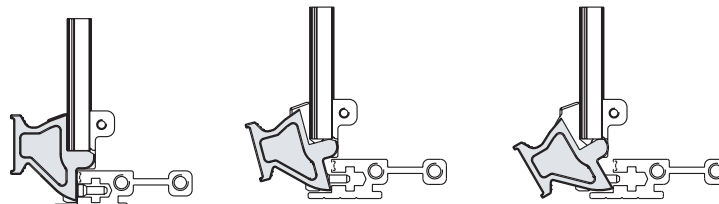
Description	Part-No.	Part-No.
	10 pcs.	100 pcs.
Ejector handle black	81-233-1	81-233-2
Ejector handle grey	81-234-1	81-234-2

Extraction process:

Rest position

Extraction

End position



Label

Description	Part-No.
1 sheet A4 of 220 labels	81-031



3.6.7 EMC Plug-In Units acc. to IEC

- Excellent EMC shielding
- Made of aluminium extrusions
- Rear side: conductive surface finish (clear passivated)
- Used in the assembly of plug-in units
- The EMC-gasket is integrated into the front panel profile to protect it from damage
- A pressfit centering pin guarantees optimum positioning of the panel as well as the right pressure between the contact strip and the next panel

3.6.7.1 EMC Filler Panels without Openings

- High stability
- Extruded aluminium
- Pressed-in centering pin and bushes M2.5
- Front side clear anodised, rear side conductive
- **Scope of delivery:**
 - EMC front panel, incl. pressed-in centering pin and bushes M2.5
- EMC-gasket see below
- Front panel screw see below
- Handles and card holders cannot be fitted with this type of front panel



Width	Part-No. 3 U	Part-No. 6 U
4 HP	66-514-73	66-514-76
6 HP	66-516-73	66-514-76
8 HP	66-518-73	66-518-76

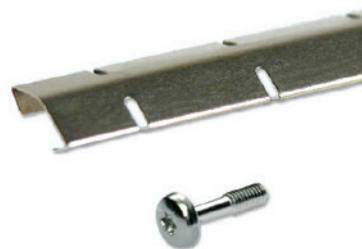
EMC Gaskets (Stainless Steel)

Height	Part-No. 1 pc.
3 U	81-062-03
6 U	81-062-06

Front Panel Screws

- Front panel width up to 8 HP = 2 screws

Description	Part-No. 1 pc.
Torx screw, M2.5 x 11.3, size T8	5443-08
Round head screw, cross recessed M2.5 x 12.7	61-287



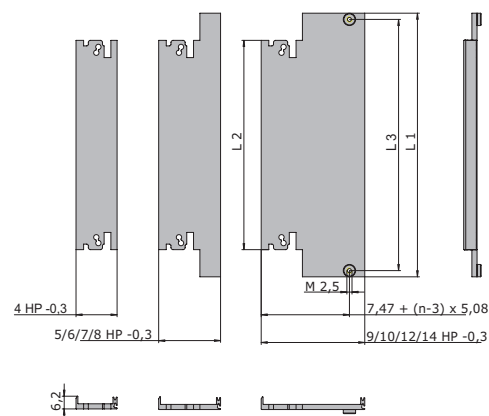
Use Elma's front panel service for machining and screen printing of your panels!

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3.6.7.2 EMC Front Panels for IEC Plug-In Units with Cut-out for Ejector Handles acc. to IEC

EMC Front Panels Aluminium with EMC Gasket

- Excellent EMC shielding
- Immune to snagging
- EMC-gasket slid onto the extrusion
- **Scope of delivery:**
 - EMC front panel, incl. pressed-in bushes M2.5 (size ≥ 10 HP)
- EMC-gasket see below
- Handle has to be ordered separately, see 1.6.7.3
- Front panel screw (size ≥ 10 HP), see below



Front Anodised, Rear Conductive (2 cutouts)

- With 2 cutouts (bottom + top)

Width	Part-No. 3 U	Part-No. 6 U	Part-No. 9 U
4 HP	66-514-23	66-514-26	66-514-29
5 HP	66-515-23	66-515-26	
6 HP	66-516-23	66-516-26	66-516-29
7 HP	66-517-23	66-517-26	
8 HP	66-518-23	66-518-26	66-518-29
9 HP	66-519-23	66-519-26	
10 HP	66-520-23	66-520-26	66-520-29
12 HP	66-522-23	66-522-26	66-522-29
14 HP	66-534-23	66-534-26	

Front Anodised, Rear Conductive (1 cutout)

- With 1 cutout (bottom)
- Incl. pressed-in centring pin and bush M2.5 (top)
- Incl. cutout for mounting of card holder 61-156 (top) with screw 5322-08 (see 1.6.7.4)

Width	Part-No. 3 U
4 HP	66-514-43
5 HP	66-515-43
6 HP	66-516-43
7 HP	66-517-43
8 HP	66-518-43
9 HP	66-519-43
10 HP	66-520-43
12 HP	66-522-43
14 HP	66-534-43

Front and Rear Side Raw

- With 2 cutouts (bottom + top)

Width	Part-No. 3 U	Part-No. 6 U
4 HP	66-514-63	66-514-66
6 HP	66-516-63	66-516-66
8 HP	66-518-63	66-518-66
10 HP	66-520-63	66-520-66
12 HP	66-522-63	66-522-66

Dimensions

Height	L1 mm	L1 inch	L2 mm	L2 inch	L3 mm	L3 inch
3 U	128.55	5.06	102.05	4.01	122.50	4.82
6 U	261.90	10.31	235.40	9.27	255.85	10.07
9 U	395.25	15.56	368.75	14.51	389.20	15.32

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EMC-Gaskets (Stainless Steel)

Unit	Part-No. 3 U	Part-No. 6 U	Part-No. 9 U
1 pc.	81-062-03	81-062-06	81-062-09

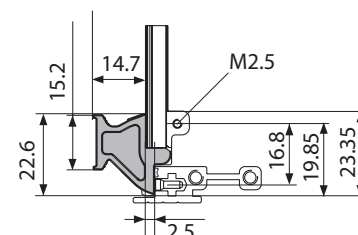
Front Panel Screws

- For EMC front panels size ≥ 10 HP = 2 additional screws are needed

Description	Part-No. 1 pc.
Cross recessed round head screw M2.5 x 12.7	61-287
Torx screw M2.5 x 11.3, size T8	5443-08

3.6.7.3 Ergonomic Ejector Handles acc. to IEC

- Simple assembly of plug-in units
- Allows trouble-free extraction of electronic units with multi-pole connectors
- Main features in one part: card holder, ejector handle and centering pin
- Reset spring for safe insertion
- One version for top and bottom only
- Handle is injection moulded, glass-reinforced plastic, UL94 V-0
- Card holder is zinc die-cast, nickel plated
- Reset spring is stainless steel
- Scope of delivery:**
 - Ejector handle
 - Assembly material (cross recessed screws M2.5 for fixing of card holder/printed board/front panel)
- Front panel with special cut-outs have to be ordered separately

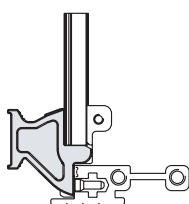


3.6.7.3 Ejector Handles acc. to IEC

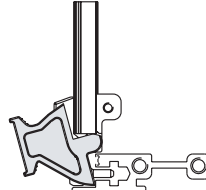
Description	Part-No. 10 pcs.	Part-No. 100 pcs.
Ejector handle black	81-233-1	81-233-2
Ejector handle grey	81-234-1	81-234-2

Extraction process:

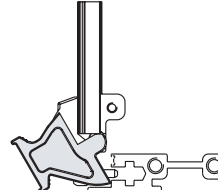
Rest position



Extraction



End position



Label

Description	Part-No.
1 sheet A4 of 220 labels	81-031

3: Stylebox 15 e-motion

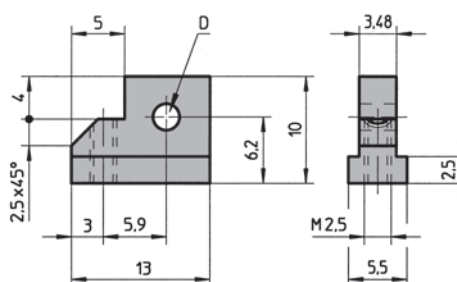
3.6.7.4 Card Holder acc. to IEC Standard

- By using the zinc die-cast card holder, flat front panels and EMC front panels acc. to IEC can be connected to a PC card to form a plug-in unit
- The card can be mounted both in the standard position and offset 1 HP (5.08 mm)
- **Scope of delivery:**
 - Card holder
- Assembly material see below



3.6.7.4 Card Holder without Swivel Stop

Description	Application	D	Part-No. 1 pc.
Card holder without swivel stop	Without injector / ejector handle	M2.5	61-156



Assembly Material

Description	Application	Part-No. 1 pc.
Cross recessed countersunk screw M2.5 x 8	For card holder	5322-08
Torx countersunk screw M2.5 x 8, size T8	For card holder	5470-21
Slotted pan head screw M2.5 x 6	For printed board	5571-06
Torx cylinder head screw M2.5 x 6, size T8	For printed board	5470-04

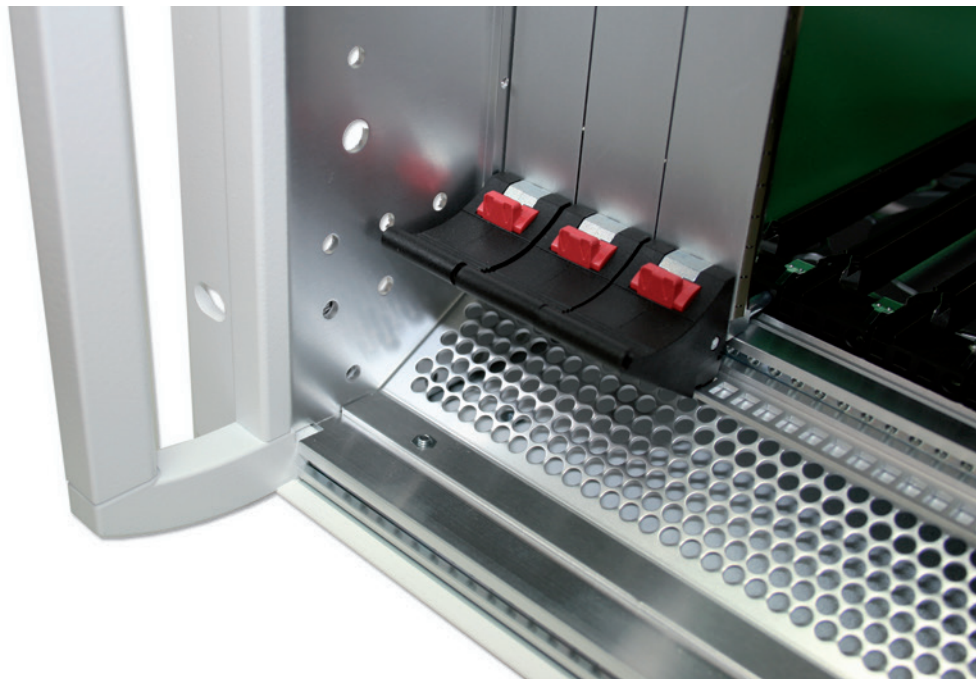
3.6.7.5 Card Holders/End Pieces without ESD Pin

- **Scope of delivery:**
 - End piece card holder (zinc die-cast, nickel plated)
- Assembly material
(screws M2.5 for fixing of front panel/card holder/printed board)



3.6.7.5 Card Holders/End Pieces without ESD Pin

Description	Part-No. 1 pc.	Part-No. 100 pcs.
Top	81-018-01	81-018-01-2
Bottom	81-019-01	81-019-01-2



3.6.8 Plug-In Units acc. to IEEE

3.6.8.1 EMC Front Panels Aluminium with EMC Gasket acc. IEEE

- Excellent EMC shielding
- Immune to snagging
- EMC-gasket slid onto the extrusion
- **Scope of delivery:**
 - EMC front panel, incl. press-in bushes M2.5 (size ≥ 10 HP)
- EMC-gasket see below
- Handle has to be ordered separately, see 1.6.8.5
- Front panel screw (size ≥ 10 HP), see below

3.6.8.1 Front Anodised, Side Conductive (2 cutouts)

- With 2 cutouts (bottom + top)

Width	Part-No. 3 U	Part-No. 6 U
4 HP	66-514-23	66-514-26
5 HP	66-515-23	66-515-26
6 HP	66-516-23	66-516-26
7 HP	66-517-23	66-517-26
8 HP	66-518-23	66-518-26
9 HP	66-519-23	66-519-26
10 HP	66-520-23	66-520-26
12 HP	66-522-23	66-522-26
14 HP	66-534-23	66-534-26

3.6.8.2 Front Anodised, Rear Conductive (1 cutout)

- With 1 cutout (bottom)
- Incl. pressed-in centring pin and bush M2.5 (top)
- Incl. cutout for mounting of card holder 61-156 (top) with screw 5322-08 (see 2.7.6.2)

Width	Part-No. 3 U
4 HP	66-514-43
5 HP	66-515-43
6 HP	66-516-43
7 HP	66-517-43
8 HP	66-518-43
9 HP	66-519-43
10 HP	66-520-43
12 HP	66-522-43
14 HP	66-534-43



3: Stylebox 15 e-motion

3.6.8.3 Front and Rear Side Raw

- With 2 cutouts (bottom + top)

Width	Part-No. 3 U	Part-No. 6 U
4 HP	66-514-63	66-514-66
6 HP	66-516-63	66-516-66
8 HP	66-518-63	66-518-66
10 HP	66-520-63	66-520-66
12 HP	66-522-63	66-522-66

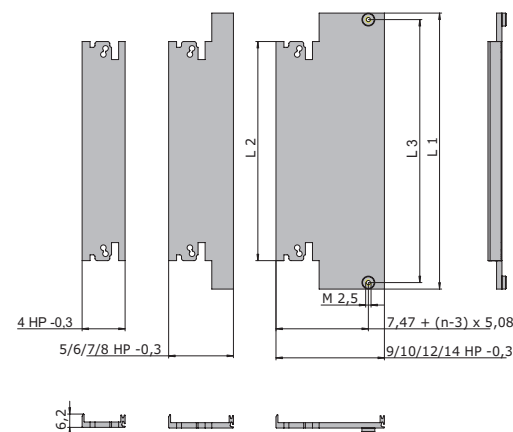
EMC-Gaskets (Stainless Steel)

Part-No. 3 U	Part-No. 6 U
81-062-03	81-062-06

Front Panel Screws

- For EMC front panels size ≥ 10 HP = 2 additional screws are needed

Description	Part-No. 1 pc.
Cross recessed round head screw M2.5 x 12.7	61-287
Torx screw M2.5 x 11.3, size T8	5443-08

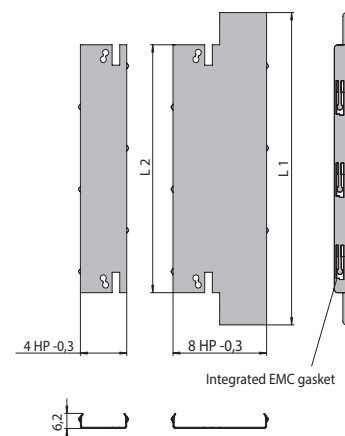


Dimensions

Height	L1 mm	L1 inch	L2 mm	L2 inch	L3 mm	L3 inch
3 U	128.55	5.06	102.05	4.01	122.50	4.82
6 U	261.90	10.31	235.40	9.27	255.85	10.07

1.6.8.4 EMC Front Panels Stainless Steel acc. IEEE

- Very good EMC shielding
- Economic solution
- EMC-spring integrated in front panel
- Stainless steel
- Scope of delivery:**
 - EMC front panel
- Handle has to be ordered separately, see 1.6.8.5



3.6.8.4 Front and Rear Side Untreated, Stainless Steel

Width	Part-No. 3 U	Part-No. 6 U
4 HP	28-304	28-604
8 HP	28-308	28-608

3: Stylebox 15 e-motion



3.6.8.5 Injector/Ejector Handles acc. to IEEE

Type			Mounting	ESD Pin	Colour	Part-No 1 pc.	Part-No. 100 pcs.
Ergonomic			Bottom	With ESD-pin	Black	81-076	81-076-2
Ergonomic			Top	With ESD-pin	Black	81-075	81-075-2
Ergonomic			Bottom	Without ESD-pin	Black	81-076-01	81-076-01-2
Ergonomic			Top	Without ESD-pin	Black	81-075-01	81-075-01-2
Ergonomic	Hot Swap		Bottom	With ESD-pin	Black	81-096	81-096-2
Ergonomic	Hot Swap		Top	With ESD-pin	Black	81-095	81-095-2
Ergonomic	Hot Swap		Bottom	Without ESD-pin	Black	81-096-01	81-096-01-2
Ergonomic	Hot Swap		Top	Without ESD-pin	Black	81-095-01	81-095-01-2
Ergonomic	Hot Swap	Offset	Bottom	With ESD-pin	Black	81-185	81-185-2
Ergonomic	Hot Swap	Offset	Top	With ESD-pin	Black	81-184	81-184-2
Classic			Bottom	With ESD-pin	Black	81-261	81-261-2
Classic			Top	With ESD-pin	Black	81-260	81-260-2
Classic		Offset	Bottom	With ESD-pin	Black	81-161	81-161-2
Classic		Offset	Top	With ESD-pin	Black	81-160	81-160-2
Classic	Hot Swap		Bottom	With ESD-pin	Black	81-256	81-256-2
Classic	Hot Swap		Top	With ESD-pin	Black	81-255	81-255-2
Classic	Hot Swap	Offset	Bottom	With ESD-pin	Black	81-156	81-156-2
Classic	Hot Swap	Offset	Top	With ESD-pin	Black	81-155	81-155-2
Telecom	Hot Swap		Bottom	With ESD-pin	Black	81-206	81-206-2
Telecom	Hot Swap		Top	With ESD-pin	Black	81-205	81-205-2
Telecom	Hot Swap		Bottom	Without ESD-pin	Black	81-206-01	81-206-01-2
Telecom	Hot Swap		Top	Without ESD-pin	Black	81-205-01	81-205-01-2
Telecom	Hot Swap	Offset	Bottom	With ESD-pin	Black	81-189	81-189-2
Telecom	Hot Swap	Offset	Top	With ESD-pin	Black	81-188	81-188-2
Telecom long	Hot Swap		Bottom	With ESD-pin	Black	81-215	81-215-2
Telecom long	Hot Swap		Top	With ESD-pin	Black	81-214	81-214-2
Telecom long	Hot Swap	Offset	Bottom	With ESD-pin	Black	81-116	81-116-2
Telecom long	Hot Swap	Offset	Top	With ESD-pin	Black	81-117	81-117-2
Microswitch						81-088-1 (10 pcs.)	

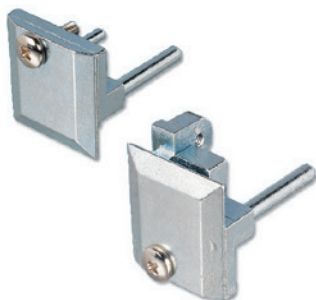
For more information refer to Elmaset chapter C | “Handles”

3: Stylebox 15 e-motion

3.6.8.6 Card Holders and Coding Pins acc. to IEEE

• Scope of delivery:

- End piece card holder (zinc die-cast, nickel plated)
- Assembly material
(screws M2.5 for fixing of front panel/card holder/printed board)



Card Holders/End Pieces with ESD Pin

Description	Part-No. 1 pc.	Part-No. 100 pcs.
Top	81-018	81-018-2
Bottom	81-019	81-019-2



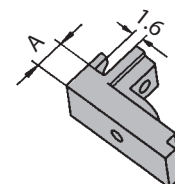
Card Holders/End Pieces without ESD Pin

Description	Part-No. 1 pc.	Part-No. 100 pcs.
Top	81-018-01	81-018-01-2
Bottom	81-019-01	81-019-01-2



Middle Parts

- Usable for all front panels
- For positioning and fixing of 6 U and 9 U cards, card thickness 1.6 mm
- Material: Plastic UL94 V-0



Description	A		Part-No. 1 pc.
Aluminium 2.5 mm	2.5	0.10	61-960
Stainless steel	4.5	0.18	61-963

Assembly Material

Description	Part-No. 1 pc.
PT-countersunk, 2.5 x 6	5534-06

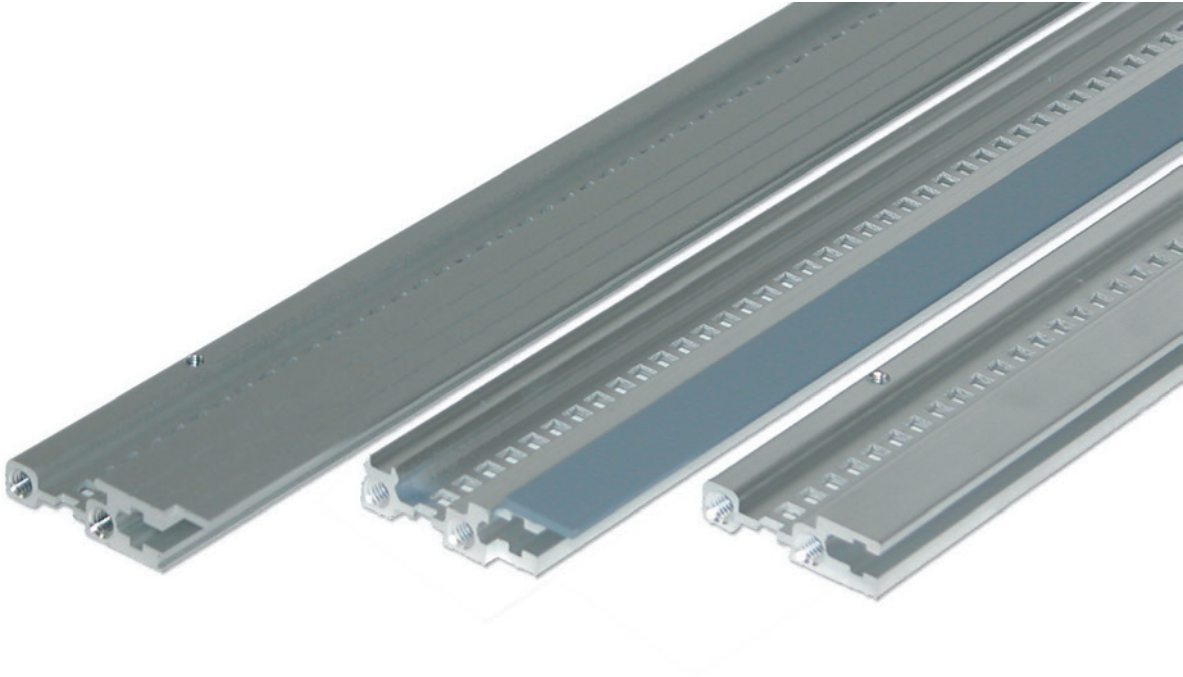


Coding Pins

- Acc. to IEC 60297-3-103
- Plastic, UL94 V-0
- Can be rotated in 4 positions

Description	Part-No. 1 pc.
Grey	81-054-02
Dark red	81-054-06
Black	81-054-04

B

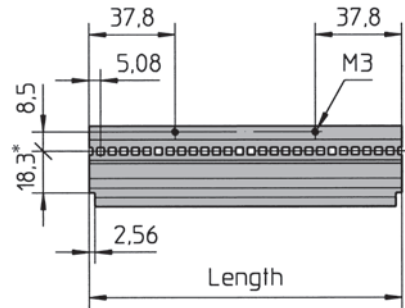
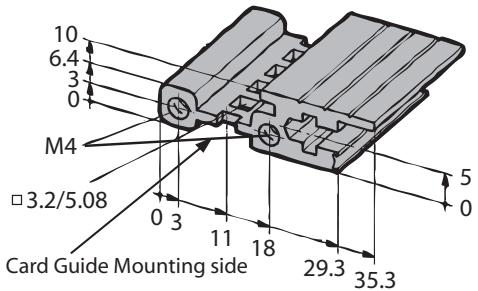


3.7 Extrusions

3.7.1 Front Extrusions

3.7.1.1 Front Extrusions 66-111, IEC

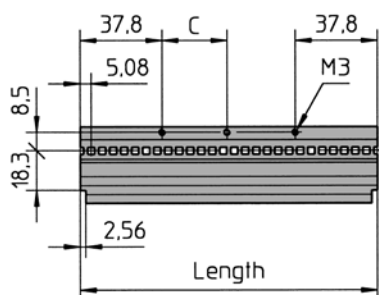
- For sub racks and cases front
- Accepts 2 x 6 mm tapped strips
- **Scope of delivery:**
 - 1 front extrusion without assembly material



3.7.1.1 Standard Version

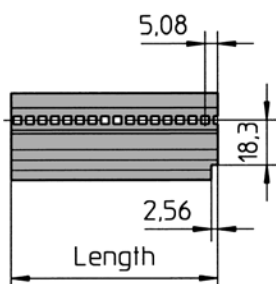
Length for HP			Part-No. clear anodised	clear passivated	raw
	mm	inch			
21	111.8	4.40	66-111-26	-	-
28	147.3	5.80	66-111-25	-	-
32	167.6	6.80	66-111-62	-	-
42	218.4	8.60	66-111-60	66-111-75	-
63	325.1	12.80	66-111-61	66-111-76	-
81	416.6	16.40	66-111-22	66-111-77	-
84	431.8	17.00	66-111-23	66-111-78	-
	1350.0	53.15	-	-	66-111-19

3: Stylebox 15 e-motion



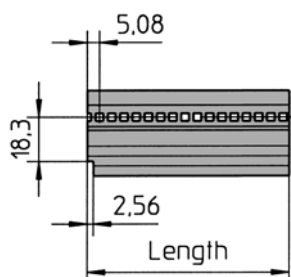
EMC Version

Length for HP			Holes n x C	Part-No. clear passivated
	mm	inch		
42	218.4	8.60	2 x 71.42	66-111-50
63	325.1	12.80	3 x 83.17	66-111-51
81	416.6	16.40	4 x 85.24	66-111-52
84	431.8	17.00	4 x 89.05	66-111-53



Height Divider Right, IEC

Length for HP	mm	inch	Part-No. anodised
4.5	22.86	0.90	66-111-70
8.5	43.18	1.70	66-111-71
12.5	63.82	2.54	66-111-72

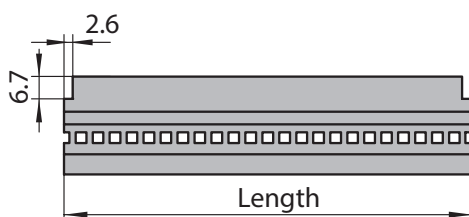
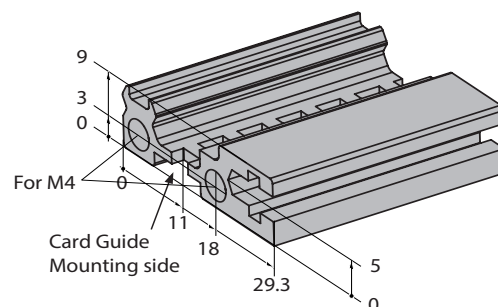


Height Divider Left, IEC

Length for HP	mm	inch	Part-No. anodised
4.5	22.86	0.90	66-111-80
8.5	43.18	1.70	66-111-81
12.5	63.50	2.50	66-111-82

3.7.1.2 Front Extrusions 66-282, IEC

- For Stylebox 15 Smart and e-motion
- Scope of delivery:**
 - 1 front extrusion without assembly material



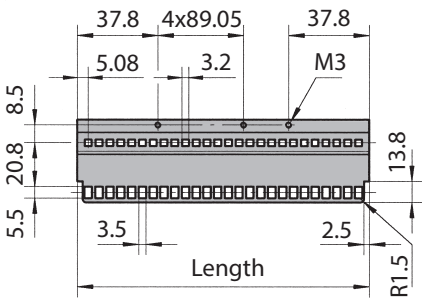
3.7.1.2 Front Extrusions 66-282, IEC

Length for HP	mm	inch	Part-No. clear passivated
42	218.4	8.60	66-282-26
63	325.1	12.80	66-282-27
84	431.8	17.00	66-282-28
	1350	53.15	66-282-19

3: Stylebox 15 e-motion

3.7.1.3 Front Extrusions 66-677, IEEE

- For Stylebox 15 Smart and e-motion
- Front separation extrusion according to IEEE standard
- Accepts 2 x 6 mm tapped strips
- **Scope of delivery:**
 - 1 front extrusion without assembly material



3.7.1.3 Version for Stylebox 15 Smart and e-motion acc. to IEEE

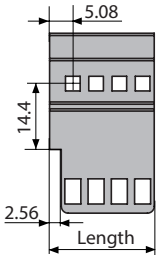
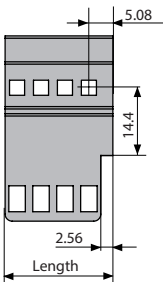
Length for HP			Part-No. clear passivated
	mm	inch	
84	431.8	17.00	66-677-33

Height Divider Right, IEEE

Length for HP			Part-No. clear passivated
	mm	inch	
4.5	22.86	0.90	66-677-70
8.5	43.18	1.70	66-677-71

Height Divider Left, IEEE

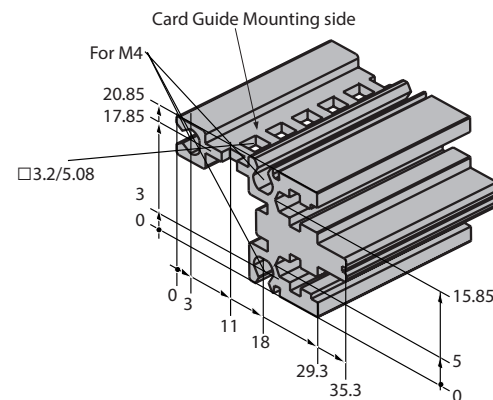
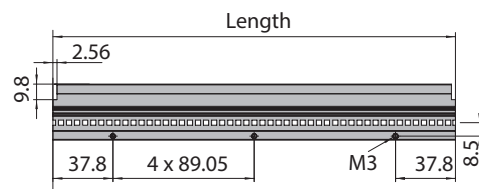
Length for HP			Part-No. clear passivated
	mm	inch	
4.5	22.86	0.90	66-677-80
8.5	43.18	1.70	66-677-81



3: Stylebox 15 e-motion

3.7.1.4 Horizontal Front Sub Division Extrusions 66-245, IEC

- Card guide can be applied
- Accept 2 x 6 mm tapped strips
- **Scope of delivery:**
 - 1 front double extrusion IEC-special without assembly material

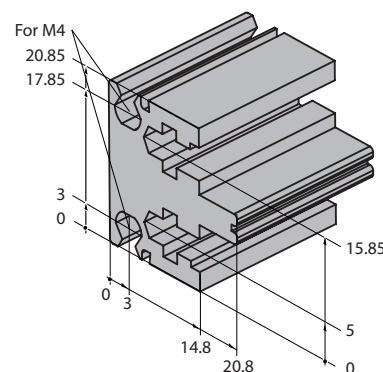
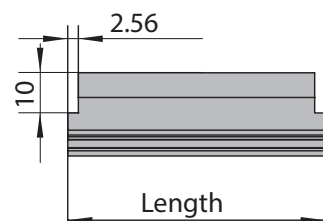


3.7.1.4 Standard Version

Length for HP	mm	inch	Part-No.	
			clear passivated	raw
84	431.8	17.00	66-245-23	-
	1350.0	53.14	-	66-245-19

3.7.1.5 Horizontal Front Sub Division Extrusion 66-243, IEC

- Card guide cannot be applied
- Accept 2 x 6 mm tapped strips
- **Scope of delivery:**
 - 1 front double extrusion IEC-special without assembly material

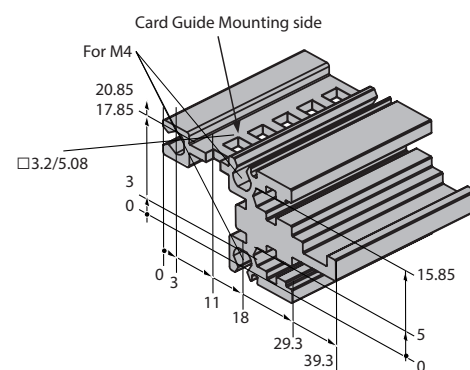


3.7.1.5 Standard Version

Length for HP	mm	inch	Part-No. clear passivated
84	431.8	17.00	66-243-23

3.7.1.6 Horizontal Front Sub Division Extrusions 66-240, IEEE

- Card guide can be applied
- Accept 2 x 6 mm tapped strips
- **Scope of delivery:**
 - 1 front double extrusion IEEE-special without assembly material



3.7.1.6 Standard Version

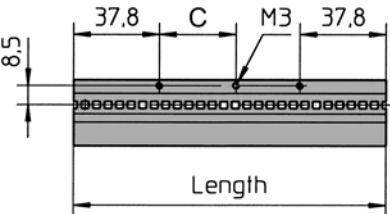
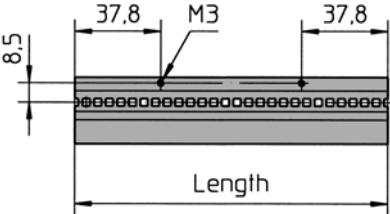
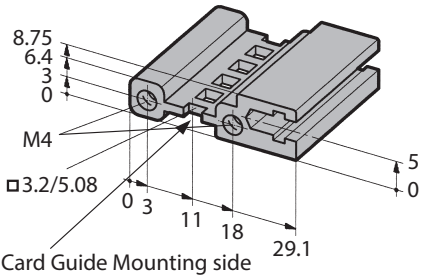
Length for HP	mm	inch	Part-No.	
			clear passivated	raw
84	431.8	17.00	66-240-153	-
	1350.0	53.14	-	66-240-19

3: Stylebox 15 e-motion

3.7.2 Internal Extrusions

3.7.2.1 Internal Extrusions 66-193 insulated Backplane Mounting

- For mounting back 1.7.3
- Scope of delivery:**
 - 1 extrusion without assembly material



3.7.2.1 Standard Version

Length			Part-No.	
for HP	mm	inch	clear passivated	raw
32	167.6	6.60	66-193-26	-
42	218.4	8.60	66-193-20	-
63	325.1	12.80	66-193-21	-
81	416.6	16.40	66-193-22	-
84	431.8	17.00	66-193-23	-
	1350.0	53.14	-	66-193-19

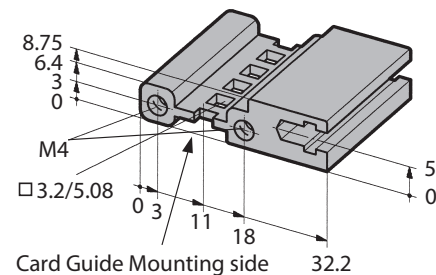
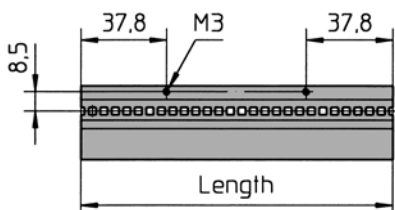
EMC Version

Length			Holes	Part-No.
for HP	mm	inch	n x C	clear passivated
42	218.4	8.60	2 x 71.42	66-193-60
63	325.1	12.80	2 x 124.76	66-193-61
81	416.6	16.40	2 x 170.48	66-193-62
84	431.8	17.00	4 x 89.05	66-193-29
84	431.8	17.00	2 x 178.1	66-193-63

3: Stylebox 15 e-motion

3.7.2.2 Internal Extrusions 66-194 for conductive Backplane Mounting

- For mounting backplanes without an insulating strip
- Scope of delivery:**
 - 1 extrusion without assembly material

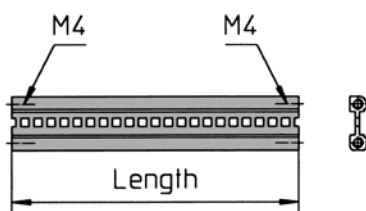
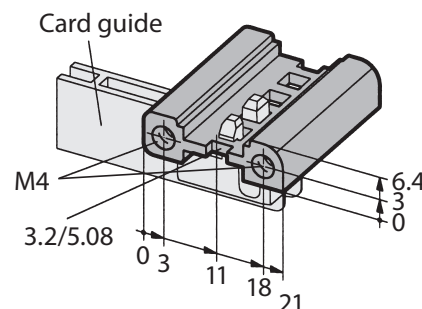


3.7.2.2 Standard Version

Length for HP	mm	inch	Part-No.	
			clear passivated	raw
42	218.4	8.60	66-194-20	-
63	325.1	12.80	66-194-21	-
84	431.8	17.00	66-194-23	-
	1350.0	53.14	-	66-194-19

3.7.2.3 Internal Extrusions 66-138 for Card Guides

- For mounting card guides
- For rear I/O applications
- Tapped strip not required
- Scope of delivery:**
 - 1 extrusion without assembly material



3.7.2.3 Standard Version

Length for HP	mm	inch	Part-No.	
			clear passivated	raw
21	111.8	4.40	66-138-28	-
28	147.3	5.70	66-138-25	-
32	167.6	6.59	66-138-29	-
42	218.4	8.60	66-138-26	-
63	325.1	12.79	66-138-27	-
81	416.6	16.40	66-138-22	-
84	431.8	17.00	66-138-23	-
	1350.0	53.14	-	66-138-19

Height Divider Left

Length for HP	mm	inch	Part-No. clear passivated
4.5	22.86	0.90	66-138-70
8.5	43.18	1.70	66-138-71
12.5	63.50	2.50	66-138-72
16.5	83.82	3.30	66-138-73

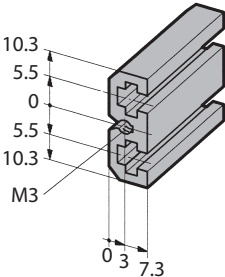
Height Divider Right

Length for HP	mm	inch	Part-No. clear passivated
4.5	22.86	0.90	66-138-80
8.5	43.18	1.70	66-138-81
12.5	63.50	2.50	66-138-82
16.5	83.82	3.30	66-138-83

3: Stylebox 15 e-motion

3.7.2.4 Double Extrusions 66-192 for insulated Backplane Mounting

- For mounting backplanes, matches 66-193, 66-288
- For use with insulating strips
- Insulating strip see 2.8.2.6
- Assembly material with adapter: 63-175
- **Scope of delivery:**
 - 1 extrusion without assembly material



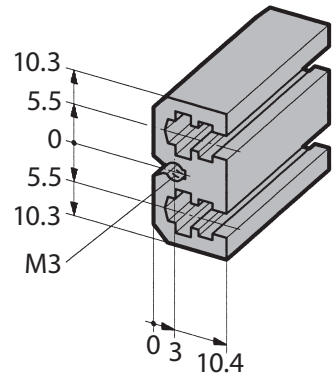
Length for HP	mm	inch	Part-No.	
			clear passivated	raw
84	431.8	17.00	66-192-24	-
	1350.0	53.14	-	66-192-14

Length for HP	mm	inch	Part-No. clear passivated
42	213.4	8.40	66-192-20
63	320.0	12.59	66-192-21
81	411.5	16.20	66-192-22
84	426.7	16.79	66-192-23

Assembly material with adapter: 63-175 (63K175 with Torx)

3.7.2.5 Double Extrusions 66-195 for conductive Backplane Mounting

- For mounting backplanes without insulating strips
- Matches 66-194, 66-289, 66-290
- Assembly material with adapter: 63-175
- **Scope of delivery:**
 - 1 extrusion without assembly material



Length for HP	mm	inch	Part-No. clear passivated
84	431.8	17.00	66-195-24

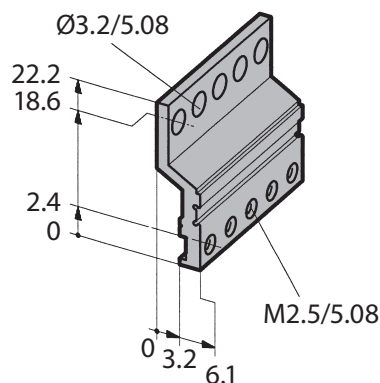
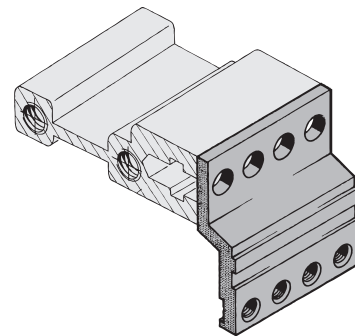
Length for HP	mm	inch	Part-No. clear passivated
81	411.5	16.20	66-195-22
84	426.7	16.77	66-195-23

Assembly material with adapter: 63-175 (63K175 with Torx)

3: Stylebox 15 e-motion

3.7.2.6 Edge Connector Extrusions 66-147

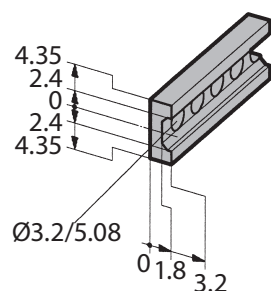
- Supplementary edge connector extrusion for DIN 41612 (IEC 60603-2)
- Matches 66-112, 66-192, 66-193
- **Scope of delivery:**
 - 1 extrusion without assembly material



Length for HP	mm	inch	Part-No.	
			clear passivated	raw
8	40.6	1.59	66-147-40	-
18	91.4	3.59	66-147-41	-
28	142.2	5.60	66-147-42	-
42	213.4	8.40	66-147-63	-
63	320.0	12.60	66-147-65	-
81	411.5	16.20	66-147-22	-
84	426.7	16.80	66-147-52	-
	1350.0	53.14	-	66-147-19

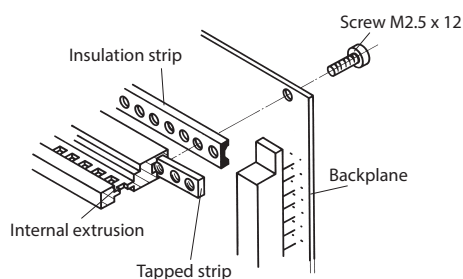
3.7.3 Insulating Strips 66-901

- Plastic grey
- In use with extrusions 66-112, 66-192, 66-193, 66-288
- **Scope of delivery:**
 - 1 insulating strip without assembly material



3.7.3.1 Insulating Strips 66-901

Length for HP	mm	inch	Part-No.
42	216.44	8.52	66-901-20
63	323.12	12.72	66-901-21
81	414.56	16.32	66-901-22
84	429.80	16.92	66-901-23



Mounting with Insulation Strips

Description	Part-No.
Cross recessed cylinderhead earthing screw M2.5 x 12	5325-12