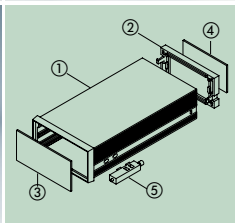
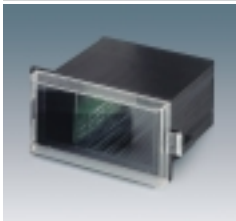
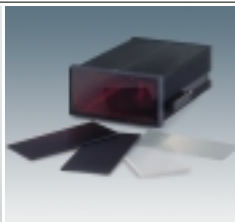


YOUR ADVANTAGE

- Material corresponds to UL 94 V-0: self-extinguishing and shock resistant.
- 7 different standard dimensions and variable case depths.
- Easy and fast assembly of components – without the use of one single screw. Fastening elements for the mounting of control panels are delivered together with the case.
- Front and rear panel for snapping-in.
- Fixing of the PCBs by the rear frame.
- Special length possible, on request, between minimum and maximum standard case length.
- Transparent cover (available as accessory) protects displays and operating elements.



APPLICATIONS

Cases manufactured in accordance with DIN 43 700. Horizontal and vertical guide ridges for internal PCB mounting. Especially suitable for measuring, control technology and remote controls. Large variety of applications possible due to different types of constructions and accessories.

- ① Case
- ② Frame (rear) with snap-lock mechanism
- ③ Front panel*
- ④ Rear panel*
- ⑤ Fastening element

* separate accessories

STANDARD COLOUR

Case, frame and the fastening elements: Black. Please refer to colour chart on page 214.

MATERIAL

Case and fastening elements are made of Noryl UL 94 V-0. Protection cover in polycarbonate UL 94 V-2. Please refer to accessories for front- and rear panels. Different characteristics of plastics can be taken from pages 215-217.

Two different types of cases for mounting into control boards according to DIN 43 700.

DIN-MODULAR CASE TYPE A:

Screwless assembly of all case parts, made of Noryl UL 94 V-0 with a high standard of mechanical and electrical properties.

MODIFICATIONS AS PER CUSTOMER'S REQUIREMENTS

Machining on modern CNC-controlled machines. Lacquering. Silk screen and tamper printing. See pages 210-213.

DIN-MODULAR CASE TYPE B

acc. to DIN 43 700

OKW

DESIGN 1:

Rectangular section with guide ridges for horizontal slide-in mounting of PCBs from the front. Removable front and rear frame.

- ① Case
- ② Rear panel of case
- ③ Snap-in front frame
- ④ Front panel / Filter plate* (*separate accessories).

Norm dimensions:
96 x 48 mm / 72 x 72 mm /
96 x 96 mm

DESIGN 2:

U-section with removable lateral lid for vertical slide-in mounting of PCBs. Fixed front frame and removable rear frame (except case 144 x 72 mm which is also available with removable front frame).

- ① Case U-section
- ② Lateral lid of case with screw set
- ③ Rear panel of case
- ④ Front panel / Filter plate* (*separate accessories).

Norm dimensions:
144 x 72 mm / 144 x 144 mm

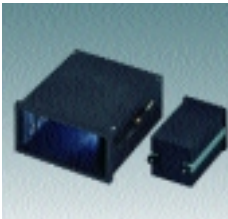
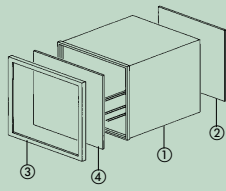
DESIGN 3:

Same as design 2, but particularly designed for 19"-system slide-in assemblies 12 TE, 3 HE (Eurocard size).

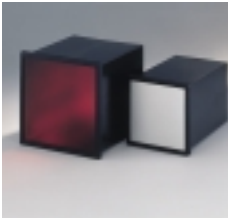
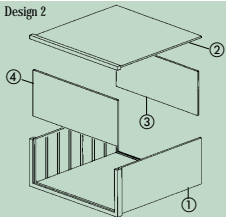
- ① Case U-section
- ② Lateral lid of case with screw set
- ③ rear panel of case
- ④ PCB supports in 1 TE steps
- ⑤ plug holder for connectors acc. to DIN 41612
- ⑥ tapped and threaded strips for fixing the components.

Norm dimensions:
144 x 72 mm

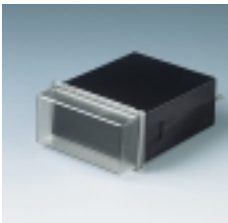
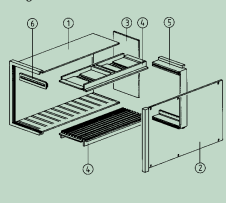
Design 1



Design 2



Design 3



DIN-MODULAR CASE TYPE B:

Available in three different assembly versions consisting of several parts, made of reinforced Noryl with outstanding mechanical and electrical properties.

YOUR ADVANTAGE

- Case made of glass-fibre reinforced Noryl with outstanding mechanical and electrical properties, corresponding to UL-standard 94 V-1.
- Available in 3 different designs, depending on the inserts.
- All components including the electronic parts can slide into the case from the front side.
- The rear panel has fixing ribs to hold PCBs and slots for the plug connectors.
- Holder or bracket for secure mounting within the control panel.
- Transparent snap-in cover (accessory) protects displays and operating elements.

STANDARD COLOUR

Black.
Please refer to colour chart on page 214.

MATERIAL

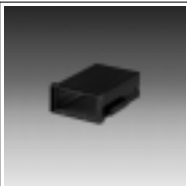
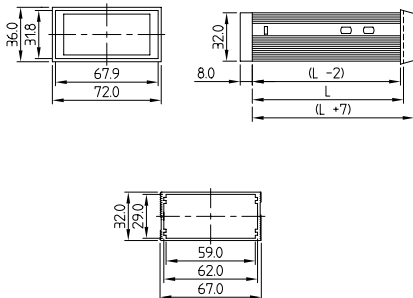
Glass fibre reinforced Noryl with outstanding mechanical and electrical properties.

Corresponds to UL 94 V-1 (except front frame and snap-in cover). Please refer to the specifications on pages 215-217.

DIN-MODULAR CASE 72 x 36 AND 48 x 48 TYPE A

DIN-MODULAR
CASE 72 x 36

Detailed drawing available on demand in dwg or dxf format.



With guide ridges for slide-in PCB mounting on 2 sides.

Accessories see page 186.

Part-No.

CASE

Standard dim. in mm

Supply

W	H	L
72	36	57
72	36	75
72	36	100

1 case

72 36 75

1 rear frame with snap-lock

72 36 100

2 fixings

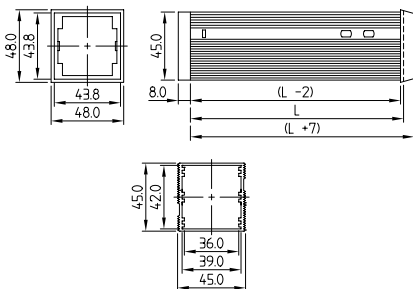
B 60 21 011

B 60 21 021

B 60 21 031

DIN-MODULAR
CASE 48 x 48

Detailed drawing available on demand in dwg or dxf format.



With guide ridges for slide-in PCB mounting on 2 sides.

Accessories see page 186.

Part-No.

CASE

Standard dim. in mm

Supply

W	H	L
48	48	57
48	48	75
48	48	100
48	48	109
48	48	114
48	48	124
48	48	131
48	48	156

1 case

48 48 75

1 rear frame with snap-lock

48 48 100

2 fixings

48 48 109

48 48 114

48 48 124

48 48 131

48 48 156

B 60 12 011

B 60 12 021

B 60 12 031

B 60 12 041

B 60 12 051

B 60 12 061

B 60 12 071

B 60 12 091

DIN-MODULAR CASE 96 x 48 AND 72 x 72 TYPE A



VERSION I

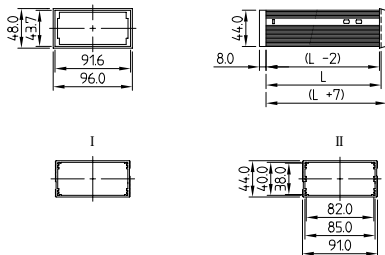
With guide ridges for slide-in PCB mounting on 2 sides.
Mounting lengths: 57, 75, 100, 109, 114 and 124 mm.

VERSION II

With guide ridges for slide-in PCB mounting on 2 sides.
Mounting lengths: 131, 139, 156 and 179 mm.

Accessories see page 186.

Detailed drawing available on demand in dwg or dxf format.



CASE

Standard dim. in mm			Version	Supply
W	H	L		
96	48	57	I	1 case
96	48	75	I	1 rear frame with snap-lock
96	48	100	I	2 fixings
96	48	109	I	
96	48	114	I	
96	48	124	I	
96	48	131	II	
96	48	139	II	
96	48	156	II	
96	48	179	II	

Part-No.

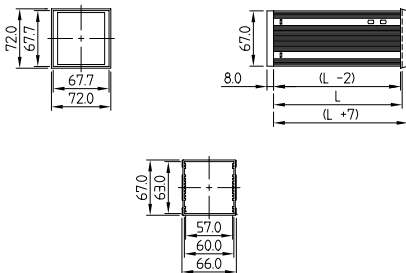
B 60 32 011
B 60 32 021
B 60 32 031
B 60 32 041
B 60 32 051
B 60 32 061
B 60 32 072
B 60 32 082
B 60 32 092
B 60 32 102



With guide ridges for slide-in PCB mounting on 2 sides.

Accessories see page 186.

Detailed drawing available on demand in dwg or dxf format.



CASE

Standard dim. in mm			Supply
W	H	L	
72	72	57	1 case
72	72	75	1 rear frame with snap-lock
72	72	100	2 fixings
72	72	109	
72	72	114	
72	72	124	
72	72	131	
72	72	156	

Part-No.

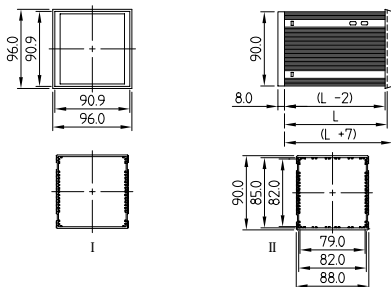
B 60 23 011
B 60 23 021
B 60 23 031
B 60 23 041
B 60 23 051
B 60 23 061
B 60 23 071
B 60 23 091

DIN-MODULAR CASES

DIN-MODULAR CASE 96 x 96 AND 144 x 72 TYPE A

DIN-MODULAR CASE 96 x 96

Detailed drawing available on demand in dwg or dxf format.



VERSION I

With guide ridges for slide-in PCB mounting on 2 sides.
Mounting lengths: 57, 75, 100 and 109 mm.

VERSION II

With guide ridges for slide-in PCB mounting on 4 sides.
Mounting lengths: 114, 124, 131, 139, 156 and 179 mm.

Accessories see page 187.

Part-No.

CASE

Standard dim. in mm

W H L

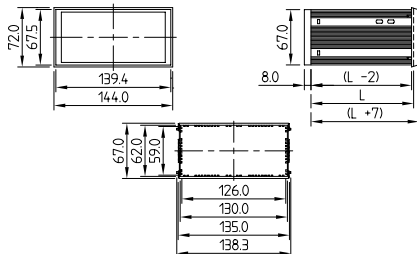
Version

Supply

Part-No.	W	H	L	Version	Supply
B 60 34 011	96	96	57	I	1 case
B 60 34 021	96	96	75	I	1 rear frame with snap-lock
B 60 34 031	96	96	100	I	2 fixings
B 60 34 041	96	96	109	I	
B 60 34 052	96	96	114	II	
B 60 34 062	96	96	124	II	
B 60 34 072	96	96	131	II	
B 60 34 082	96	96	139	II	
B 60 34 092	96	96	156	II	
B 60 34 102	96	96	179	II	

DIN-MODULAR CASE 144 x 72

Detailed drawing available on demand in dwg or dxf format.



With guide ridges for slide-in PCB mounting on 4 sides.

Accessories see page 187.

Does not correspond to
DIN 43 700.

Part-No.

CASE

Standard dim. in mm

W H L

Supply

Part-No.	W	H	L	Supply
B 60 43 011	144	72	57	1 case
B 60 43 021	144	72	75	1 rear frame with snap-lock
B 60 43 031	144	72	100	2 fixings
B 60 43 041	144	72	109	
B 60 43 051	144	72	114	
B 60 43 061	144	72	124	
B 60 43 071	144	72	131	
B 60 43 081	144	72	139	
B 60 43 091	144	72	156	
B 60 43 101	144	72	179	
B 60 43 111	144	72	200	

DIN-MODULAR CASE 144 x 144 TYPE A

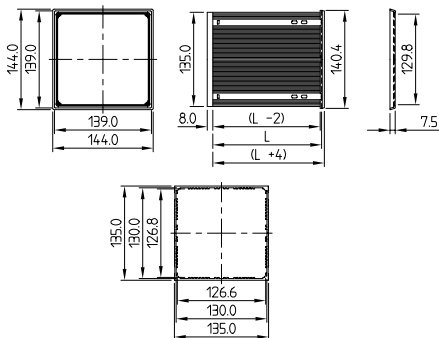


With guide ridges for slide-in PCB mounting on 4 sides.

The front panel is fixed in the corners. Therefore the access to the inside is also possible from the front.

Accessories see page 187.

Detailed drawing available on demand in dwg or dxf format.



DIN-MODULAR
CASE 144 x 144

CASE

Standard dim. in mm

W	H	L
144	144	57
144	144	75
144	144	100
144	144	114
144	144	139
144	144	156

Supply

1 case

1 rear frame with snap-lock

2 fixings

Part-No.

B 60 45 011

B 60 45 021

B 60 45 031

B 60 45 051

B 60 45 081

B 60 45 091

Accessories DIN-MODULAR CASE TYPE A
see pages 186-187

			Order data cases see page 182.
			* no protection cover available
Part-No.	FOR DIN-MODULAR CASE 72 x 36* TYPE A		
	Article	Version	Dimensions in mm
B 61 21 111	Front panel	matt anodized aluminium	67.7 x 31.6 x 1.5
B 61 21 221	Front panel	Noryl UL 94 V-0, black	67.8 x 31.7 x 2
B 61 21 331	Front panel	plexiglass, transparent	67.7 x 31.6 x 2
B 61 21 341	Front panel	plexiglass, red transparent	67.7 x 31.6 x 2
B 61 21 451	Front panel	PC, permeable to infra-red light	67.8 x 31.8 x 2
B 61 21 112	Rear panel	matt anodized aluminium	57.6 x 28.6 x 1
B 61 21 222	Rear panel	Noryl UL 94 V-0, black	57.6 x 28.7 x 1.5

			Order data cases see page 182.
			* no protection cover available
Part-No.	FOR DIN-MODULAR CASE 48 x 48* TYPE A		
	Article	Version	Dimensions in mm
B 61 12 111	Front panel	matt anodized aluminium	43.6 x 43.6 x 1.5
B 61 12 221	Front panel	Noryl UL 94 V-0, black	43.7 x 43.7 x 2
B 61 12 331	Front panel	plexiglass, transparent	43.6 x 43.6 x 2
B 61 12 341	Front panel	plexiglass, red transparent	43.6 x 43.6 x 2
B 61 12 451	Front panel	PC, permeable to infra-red light	43.7 x 43.7 x 2
B 61 12 112	Rear panel	matt anodized aluminium	42.2 x 29.6 x 1
B 61 12 222	Rear panel	Noryl UL 94 V-0, black	42.3 x 29.6 x 1.8

			Order data cases see page 183.
Part-No.	FOR DIN-MODULAR CASE 96 x 48 TYPE A		
	Article	Version	Dimensions in mm
B 61 32 111	Front panel	matt anodized aluminium	91.5 x 43.4 x 1.5
B 61 32 221	Front panel	Noryl UL 94 V-0, black	91.6 x 43.5 x 2
B 61 32 331	Front panel	plexiglass, transparent	91.5 x 43.4 x 2
B 61 32 341	Front panel	plexiglass, red transparent	91.5 x 43.4 x 2
B 61 32 451	Front panel	PC, permeable to infra-red light	91.6 x 43.5 x 2
B 61 32 112	Rear panel	matt anodized aluminium	73.5 x 39.6 x 1
B 61 32 222	Rear panel	Noryl UL 94 V-0, black	73.6 x 39.75 x 1.7
B 61 32 533	Protection cover	polycarbonate UL 94 V-2	

			Order data cases see page 183.
Part-No.	FOR DIN-MODULAR CASE 72 x 72 TYP A		
	Article	Version	Dimensions in mm
B 61 23 111	Front panel	matt anodized aluminium	67.5 x 67.5 x 1.5
B 61 23 221	Front panel	Noryl UL 94 V-0, black	67.6 x 67.6 x 2
B 61 23 331	Front panel	plexiglass, transparent	67.5 x 67.5 x 2
B 61 23 341	Front panel	plexiglass, red transparent	67.5 x 67.5 x 2
B 61 23 451	Front panel	PC, permeable to infra-red light	67.6 x 67.6 x 2
B 61 23 112	Rear panel	matt anodized aluminium	63.7 x 49.1 x 1
B 61 23 222	Rear panel	Noryl UL 94 V-0, black	63.8 x 49.2 x 1.7
B 61 23 533	Protection cover	polycarbonate UL 94 V-2	

ACCESSORIES

DIN-MODULAR CASES TYPE A

<p>Order data cases see page 184.</p>	<p>FOR DIN-MODULAR CASE 96 x 96 TYPE A</p> <table border="1"> <thead> <tr> <th>Article</th> <th>Version</th> <th>Dimensions in mm</th> <th>Part-No.</th> </tr> </thead> <tbody> <tr> <td>Front panel</td> <td>matt anodized aluminium</td> <td>90.6 x 90.6 x 1.5</td> <td>B 61 34 111</td> </tr> <tr> <td>Front panel</td> <td>Noryl UL 94 V-0, black</td> <td>90.7 x 90.7 x 2</td> <td>B 61 34 221</td> </tr> <tr> <td>Front panel</td> <td>plexiglass, transparent</td> <td>90.6 x 90.6 x 2</td> <td>B 61 34 331</td> </tr> <tr> <td>Front panel</td> <td>Plexiglas, red transparent</td> <td>90.6 x 90.6 x 2</td> <td>B 61 34 341</td> </tr> <tr> <td>Front panel</td> <td>PC, permeable to infra-red light</td> <td>90.7 x 90.7 x 2.2</td> <td>B 61 34 451</td> </tr> <tr> <td>Rear panel</td> <td>matt anodized aluminium</td> <td>86.7 x 71.7 x 1.5</td> <td>B 61 34 112</td> </tr> <tr> <td>Rear panel</td> <td>Noryl UL 94 V-0, black</td> <td>86.8 x 71.8 x 1.7</td> <td>B 61 34 222</td> </tr> <tr> <td>Protection cover</td> <td>polycarbonate UL 94 V-2</td> <td></td> <td>B 61 34 533</td> </tr> </tbody> </table>	Article	Version	Dimensions in mm	Part-No.	Front panel	matt anodized aluminium	90.6 x 90.6 x 1.5	B 61 34 111	Front panel	Noryl UL 94 V-0, black	90.7 x 90.7 x 2	B 61 34 221	Front panel	plexiglass, transparent	90.6 x 90.6 x 2	B 61 34 331	Front panel	Plexiglas, red transparent	90.6 x 90.6 x 2	B 61 34 341	Front panel	PC, permeable to infra-red light	90.7 x 90.7 x 2.2	B 61 34 451	Rear panel	matt anodized aluminium	86.7 x 71.7 x 1.5	B 61 34 112	Rear panel	Noryl UL 94 V-0, black	86.8 x 71.8 x 1.7	B 61 34 222	Protection cover	polycarbonate UL 94 V-2		B 61 34 533	
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<p>Order data cases see page 184.</p>	<p>FOR DIN-MODULAR CASE 144 x 72 TYPE A</p> <table border="1"> <thead> <tr> <th>Article</th> <th>Version</th> <th>Dimensions in mm</th> <th>Part-No.</th> </tr> </thead> <tbody> <tr> <td>Front panel</td> <td>matt anodized aluminium</td> <td>139.2 x 67.3 x 1.5</td> <td>B 61 43 111</td> </tr> <tr> <td>Front panel</td> <td>Noryl UL 94 V-0, black</td> <td>139.3 x 67.5 x 2</td> <td>B 61 43 221</td> </tr> <tr> <td>Front panel</td> <td>plexiglass, transparent</td> <td>139.2 x 67.3 x 2</td> <td>B 61 43 331</td> </tr> <tr> <td>Front panel</td> <td>Plexiglas, red transparent</td> <td>139.2 x 67.3 x 2</td> <td>B 61 43 341</td> </tr> <tr> <td>Front panel</td> <td>PC, permeable to infra-red light</td> <td>139.2 x 67.4 x 2</td> <td>B 61 43 451</td> </tr> <tr> <td>Rear panel</td> <td>matt anodized aluminium</td> <td>118.9 x 62.6 x 1</td> <td>B 61 43 112</td> </tr> <tr> <td>Rear panel</td> <td>Noryl UL 94 V-0, black</td> <td>119.1 x 62.7 x 2</td> <td>B 61 43 222</td> </tr> <tr> <td>Protection cover</td> <td>polycarbonate UL 94 V-2</td> <td></td> <td>B 61 43 533</td> </tr> </tbody> </table>	Article	Version	Dimensions in mm	Part-No.	Front panel	matt anodized aluminium	139.2 x 67.3 x 1.5	B 61 43 111	Front panel	Noryl UL 94 V-0, black	139.3 x 67.5 x 2	B 61 43 221	Front panel	plexiglass, transparent	139.2 x 67.3 x 2	B 61 43 331	Front panel	Plexiglas, red transparent	139.2 x 67.3 x 2	B 61 43 341	Front panel	PC, permeable to infra-red light	139.2 x 67.4 x 2	B 61 43 451	Rear panel	matt anodized aluminium	118.9 x 62.6 x 1	B 61 43 112	Rear panel	Noryl UL 94 V-0, black	119.1 x 62.7 x 2	B 61 43 222	Protection cover	polycarbonate UL 94 V-2		B 61 43 533	
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Protection cover	polycarbonate UL 94 V-2		B 61 43 533																																			
<p>Order data cases see page 185.</p>	<p>FOR DIN-MODULAR CASE 144 x 144 TYPE A</p> <table border="1"> <thead> <tr> <th>Article</th> <th>Version</th> <th>Dimensions in mm</th> <th>Part-No.</th> </tr> </thead> <tbody> <tr> <td>Front panel</td> <td>matt anodized aluminium</td> <td>138 x 138 x 1.5</td> <td>B 61 45 111</td> </tr> <tr> <td>Front panel</td> <td>plexiglass, transparent</td> <td>138 x 138 x 3</td> <td>B 61 45 331</td> </tr> <tr> <td>Front panel</td> <td>plexiglass, red transparent</td> <td>138 x 138 x 3</td> <td>B 61 45 341</td> </tr> <tr> <td>Rear panel</td> <td>matt anodized aluminium</td> <td>131.3 x 118.6 x 1.5</td> <td>B 61 45 112</td> </tr> <tr> <td>Protection cover</td> <td>polycarbonate UL 94 V-2</td> <td></td> <td>B 61 45 533</td> </tr> </tbody> </table>	Article	Version	Dimensions in mm	Part-No.	Front panel	matt anodized aluminium	138 x 138 x 1.5	B 61 45 111	Front panel	plexiglass, transparent	138 x 138 x 3	B 61 45 331	Front panel	plexiglass, red transparent	138 x 138 x 3	B 61 45 341	Rear panel	matt anodized aluminium	131.3 x 118.6 x 1.5	B 61 45 112	Protection cover	polycarbonate UL 94 V-2		B 61 45 533													
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