

# OKW

### DIN-MODULAR CASES TYPE A acc. to DIN 43 700

#### 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.

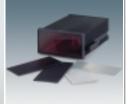
#### STANDARD COLOUR

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

#### MATERIAL

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

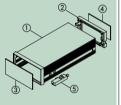
# B1984











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.

#### 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

MODIFICATIONS AS PER CUSTOMER'S REQUIREMENTS

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

### DIN-MODULAR CASE TYPF B

acc. to DIN 43 700



#### DESIGN 1:

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

- ① Case
- 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 v 96 mm

#### DESIGN 2:

II-section with removable lateral lid for vertical slide-in mounting of PCBs. Fixed front frame and removable rear frame (except case 144 v 79 mm which is also available with removable front frame).

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

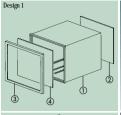
Norm dimensions: 144 x 72 mm / 144 x 144 mm

#### DESIGN 3:

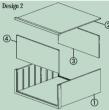
Same as design 2, but particularly designed for 19"-system slide-in assemblies 12 TE 3 HE (Eurocard size).

- (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.

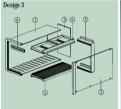
Norm dimensions: 144 x 72 mm













#### 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 Norvl 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 slided 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.
- · Tranparent snap-in cover (accessory) protects displays and operating elements.

#### STANDARD COLOUR

Rlack Please refer to colour chart on page 214.

#### MATERIAL

Glass fibre reinforced Norvl 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.

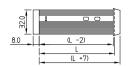


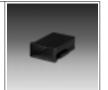
## DIN-MODULAR CASE 72 x 36 AND 48 x 48 TYPE A



Detailed drawing available on demand in dwg or dxf format.







With guide ridges for slidein PCB mounting on 2 sides.

Accessories see page 186.

59.0 62.0 67.0

Part-No.

В	60 21	011	
В	60 21	021	
В	60 21	031	

DIN-MODULAR CASE 48 x 48

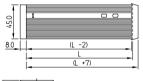
CASE

Standard dim. in mm			Supply
W	H	L	1
72	36	57	1 case
72	36	75	1 rear frame with
72	36	100	2 fixings

h snap-lock

Detailed drawing available on demand in dwg or dxf format.









With guide ridges for slidein PCB mounting on 2 sides.

Accessories see page 186.

Part-No	

Part-No.	Stand	ard dim. ii	n mm
	W	H	L
B 60 12 011	48	48	57
B 60 12 021	48	48	75
B 60 12 031	48	48	100
B 60 12 041	48	48	109
B 60 12 051	48	48	114
B 60 12 061	48	48	124
B 60 12 071	48	48	131
B 60 12 091	48	48	156

W	H	L
48	48	57
48	48	75
48	48	100
48	48	109
40	40	114

CASE

48	57	1 case
48	75	1 rear frame with snap-lock
48	100	2 fixings
48	109	

Supply

DIN-MODULAR CASES

DIN-MODULAR CASE 96 x 48

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

#### VERSION I

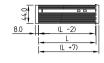
With guide ridges for slidein PCB mounting on 2 sides. Mounting lengths: 57, 75, 100, 109, 114 and 124 mm.

#### VERSION II

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

Detailed drawing available on demand in dwg or dxf format.









Part-No.

DIN-MODULAR CASE 72 x 72

Accessories see page 186.

П 48 179 Detailed drawing available on demand in dwg or dxf format.

Version

Supply

1 case

2 fixings

1 rear frame with snap-lock



With guide ridges for slidein PCB mounting on 2 sides.

Accessories see page 186.







Dont Mo

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

CASE Standard dim. in mm

> 72 156

CASE

Standard dim. in mm

48

48 100 48 109 114

48 124 48 131 II

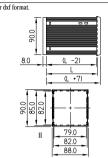
48 139 II

48 156

72 72 72 1 rear frame with snap-lock 2 fixings 72 72 100 72 109 72 114 72 72 124 72 72 131

L

Supply





VERSION I

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

#### VERSION II

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

Accessories see page 187.



w 96 96 96 75 96 96 100 96 109 96 96 114 96 96 124 96 96 131 П 96 96 139 II 96 96 156 96 96 179 П

DIN-MODULAR CASE 144 x 72

Part-No.

Detailed drawing available on demand in dwg or dxf format.

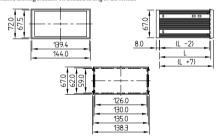
Version

Supply

1 case

2 fixings

1 rear frame with snap-lock





With guide ridges for slidein PCB mounting on 4 sides.

Accessories see page 187.

Does not correspond to DIN 43 700

	CASE			
Part-No.	Standa	ırd dim. i	n mm	
	W	H	L	
B 60 43 011	144	72	57	
B 60 43 021	144	72	75	
B 60 43 031	144	72	100	
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	

CASE			
Standa	ırd dim. i	n mm	Supply
W	H	L	
144	72	57	1 case
144	72	75	1 rear frame with snap-lock
144	72	100	2 fixings
144	72	109	1
144	72	114	1
144	72	124	1
144	72	131	
144	72	139	
144	72	156	1
144	72	179	1
144	72	200	1

# DIN-MODULAR CASES

# DIN-MODULAR CASE 144 x 144 TYPE A



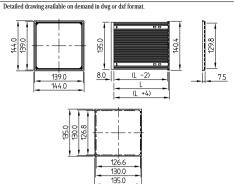
DIN-MODULAR CASE 144 x 144



With guide ridges for slidein 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.



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

Standard dim. in mm Supply 144 144 57 1 case 144 144 1 rear frame with snap-lock 144 144 100 2 fixings 144 144 114 144 144 139

CASE

144 144 156

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





# ACCESSORIES DIN-MODULAR CASES TYPE A

				Order data cases see page 182.
				* no protection cover available
	FOR DIN-MODULAR CA	SF 72 x 36* TYPF A		
Part-No.	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	1
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	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
	FOR DIN-MODULAR CA	ASE 48 x 48* TYPE A		
Part-No.	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	
Part-No.  B 61 32 111  B 61 32 221  B 61 32 331  B 61 32 341  B 61 32 451  B 61 32 122  B 61 32 533	FOR DIN-MODULAR CA Article Front panel Front panel Front panel Front panel Front panel Front panel Rear panel Rear panel Rear panel Protection cover	Version Mattanodized aluminium Noryl UL 94 V-0, black plexiglass, transparent Plexiglass, red transparent PC, permeable to infra-red light matt anodized aluminium Noryl UL 94 V-0, black polycarbonate UL 94 V-2	Dimensions in mm 91.5 x 43.4 x 1.5 91.6 x 43.5 x 2 91.5 x 43.4 x 2 91.5 x 43.4 x 2 91.6 x 43.5 x 2 73.5 x 39.6 x 1 73.6 x 39.75 x 1.7	Order data cases see page 183.  Order data cases see
Part-No.  B 61 23 111  B 61 23 221  B 61 23 331  B 61 23 341  B 61 23 451  B 61 23 112  B 61 23 222	FOR DIN-MODULAR CA Article Front panel Front panel Front panel Front panel Front panel Rear panel	Version matt anodized aluminium Noryl UI. 94 V-0, black plexiglass, transparent plexiglass, red transparent PC, permeable to infra-red light matt anodized aluminium	Dimensions in mm 67.5 x 67.5 x 1.5 67.6 x 67.6 x 2 67.5 x 67.5 x 2 67.5 x 67.5 x 2 67.5 x 67.5 x 2 67.5 x 67.5 x 2 63.7 x 49.1 x 1	page 183.
B 61 23 533	Rear panel Protection cover	Noryl UL 94 V-0, black polycarbonate UL 94 V-2	63.8 x 49.2 x 1.7	-

# ACCESSORIES DIN-MODULAR CASES TYPE A



	7 0 2 7 1	N CASES		
Order data cases see				
page 184.				
	FOR DIAL MODULA	D CACE O/ O/ TVDE A		
		R CASE 96 x 96 TYPE A	I	
	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
0.1.1.		1		
Order data cases see				
page 184.				
0				
	FOR DIN-MODULA	R CASE 144 x 72 TYPE A		
	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
	Trotection cover	polyeur bonnete e 2 o 1 v 2		B 01 43 333
Order data cases see				
page 185.				
8				
	FOR DIN-MODULA	R CASE 144 x 144 TYPE A		
	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
			138 x 138 x 3	
	Front panel	plexiglass, red transparent matt anodized aluminium	138 X 138 X 3 131.3 x 118.6 x 1.5	B 61 45 341
	Rear panel		151.5 X 118.6 X 1.5	B 61 45 112
	Protection cover	polycarbonate UL 94 V-2		B 61 45 533
	1			