

Reliable power distribution

reliable  
power  
distribution



Custom made solutions

# Contents

---

Solid rubber distribution board .....	3
Rubber, our material .....	4
Notes on installation .....	4
Technical data .....	5
Practical examples from trade and industry .....	6
Practical examples from power supply .....	7
Small distribution box, solid rubber 1400 / 1700 .....	8
Small distribution box, solid rubber 2500 / suspended distribution box, solid rubber 2500 .....	9
Distribution box, solid rubber 2516 / 7200 .....	10
Distribution board, solid rubber 7300 .....	11
Distribution board, solid rubber 7400 .....	12
Distribution board, solid rubber 7700 .....	13
Distribution board, solid rubber 7800 .....	14
Distribution board, solid rubber 7900 .....	15
Distribution board combination, solid rubber 7900 .....	16
Accessories - protective caps .....	17
Practical examples from disposal/processing .....	18
Practical examples from leisure and sport .....	19

## Solid rubber distribution boards

---

Gifas solid rubber distribution boards are manufactured from butyl rubber. This material guarantees high mechanical loading capacity and thus provides the ideal prerequisite for many different applications in trade, industry, power stations, shipyards, sewage plants and waterworks. It's not just the material used, our task-related product technologies also offer considerable advantages, i.e. we can manufacture virtually any plug socket unit and fuse.

Features of the solid rubber wall-mounted distribution boards:

- Indestructible solid rubber casing resistant to aging, acids and alkalis
- High mechanical strength
- Self-extinguishing according to VDE 0471, Part 2-2.
- All exterior metal parts are made from rust-proof material
- Solid rubber sockets with nickel-plated contact sleeves
- Fuse elements protected by special shock-resistant covering
- Easy-to-service design as all parts can be replaced individually

On request these distribution boards can also be engraved, e.g. with your company name. Other casing colours also available: e.g. RAL 7035 / GREY.

Subject to technical modifications.





## Natural rubber and how it is extracted

Natural rubber is extracted by tapping trees (*Hevea brasiliensis*) in the form of a pale sap (latex milk). The tree reaches up to 20 m in height and requires a hot, damp climate. It belongs to the spurge family of plants. The production centres are grouped along the equator and consist of plantation rubber and wild rubber. The sap tapped from the tree is made to coagulate in raw rubber factories by adding vinegar or formic acid, then squeezed out and dried. This is carried out using fumigators, and makes the material obtained in the rolling mill durable. The material is packed into balls and sent off in this form for further processing. The natural rubber obtained in this way now makes up only around 30% of total rubber production.

## Difference between indian rubber/normal rubber

Indian rubber and indian rubber mixtures are plastic materials. A material is plastic if after shaping and after removing the shaping force, it retains its new shape.

Rubber is an elastic material. A material is elastic if after shaping and after removing the shaping force, it returns to its original shape.

## The solid rubber material used in the Gifas production sites

Gifas uses a synthetic polymer SBR indian rubber as the base material; this has the optimum properties of all possible materials. From the raw material in granular or strip form, the final shape of the workpiece is vulcanised under high pressure and at high temperature on our own machines. The vulcanisation process that occurs in the process changes the indian rubber to rubber and after this stage remains elastic and stable in form, is not readily soluble and has very good thermal properties. This vulcanisation process requires considerable time and effort and is thus very costly. Only the outstanding properties of the product justify the amount of work involved.

## Properties

Rubber has an open, cross-linked structure and does not exhibit any flow crossover, even at high temperatures. Vulcanised materials with isoprene in a cross-linked form are considerably more heat-stable than standard EDPM products. The material used by Gifas remains elastic at a temperature of up to > -45 degrees Celsius. The rubber products manufactured by Gifas are in general resistant to the acids and alkalis used in industry. Using special additives, the electrical properties such as insulation strength and creep resistance are specifically improved. This creates the starting point for countless uses in electrical engineering.

## Installation notes for your electrical planning

### Design options

Technical installations are and will remain a necessary evil in architecture. These days, increasing attention is being paid to aesthetic design in public and industrial buildings. Many attractive solutions have already been realised in the ventilation and sanitation sectors in particular. However, the electrical installation has long remained a „poor cousin“ here.

### Aims of colourful design in power sources

- Create a visual distinction between different power sources
- Indicates the location
- Architecturally pleasing design
- Creative installations instead of the everyday

In addition to the excellent product quality, we offer matchless services. Our expert advisors are well-versed in all the latest technologies. Comprehensive bids provide a completely reliable assessment of the project. Thanks to our years of expertise and intense creative work, today we can advise on solutions that are high quality both in terms of aesthetics and technology.



### Technology – Design – Requirements

We attend to these important details and endeavour to realise solutions for our customers that are as practical and clear as possible. In addition to a compact distribution board design, we add the desired accents with colour. Large parts of the electrical installations, such as all the plug and socket combinations, switch points, etc., cannot be implemented until the final phase of a new-build. In this tight time-scale, every hour can impact the completion date in a negative way.

### More efficient installation

Using pre-fabricated power distribution boards, considerable amounts of time-consuming work are rendered non-critical. A further advantage is not least the simplified cable routing and the ever-present flexibility in planning work, because the detailed fittings don't need to be fixed until a relatively late stage.

## Technical data

---

### 1400 series: Small distribution box

- **can be supplied with transparent protective cap for max. 2 automation units**
- Casing made from low-nitrosamine, silicone and halogen-free solid rubber
- VA screw in rust-free brass press-fit bush with recessed double armature
- Wired ready for connection
- Weight approx. 1.0 - 2.0 kg

### 1700 series: Small distribution box

- Casing made from low-nitrosamine, silicone and halogen-free solid rubber
- VA screw in rust-free brass press-fit bush with recessed double armature
- Wired ready for connection
- Weight approx. 1.0 - 1.5 kg

### 2500 series: Small distribution box or suspended distribution box

- Casing made from low-nitrosamine, silicone and halogen-free solid rubber
- VA screws in rust-free brass press-fit bush with recessed double armature
- Wired ready for connection
- Weight approx. 1.0 - 2.0 kg

### 2516 series: Distribution box

- **Can be supplied with transparent protective cap for max. 4 automation units**
- Casing made from low-nitrosamine, silicone and halogen-free solid rubber
- VA screws in rust-free brass press-fit bush with recessed double armature
- Wired ready for connection
- Weight approx. 1.7 - 4.0 kg

### 7200 series: Distribution box

- **Can be supplied with transparent protective cap for max. 7 automation units**
- Casing made from low-nitrosamine, silicone and halogen-free solid rubber
- VA screws in rust-free brass press-fit bush with recessed double armature
- Wired ready for connection
- All distribution boards fitted with terminal strip block as standard
- Weight approx. 5.0 - 7.0 kg

### 7300 series: Distribution board

- **Can be supplied with transparent protective cap for max. 9 automation units**
- Casing made from low-nitrosamine, silicone and halogen-free solid rubber
- VA screws in rust-free brass press-fit bush with recessed double armature
- Wired ready for connection
- Weight approx. 7.0 - 10.0 kg

### 7400 series: Distribution board

- **Can be supplied with max. 17 automation units (13 + 4 per transparent protective cap)**
- Casing made from low-nitrosamine, silicone and halogen-free solid rubber
- VA screws in rust-free brass press-fit bush with recessed double armature
- Wired ready for connection
- All distribution boards fitted with terminal strip block as standard
- Weight approx. 8.0 - 12.0 kg

### 7700 series: Distribution board

- **Can be supplied with max. 21 automation units (17 + 4 per transparent protective cap)**
- Casing made from low-nitrosamine, silicone and halogen-free solid rubber
- VA screws in rust-free brass press-fit bush with recessed double armature
- Wired ready for connection
- All distribution boards fitted with terminal strip block as standard
- Weight approx. 9.0 - 13.0 kg

### 7800 series: Distribution board

- **Can be supplied with max. 51 automation units (17 per transparent protective cap)**
- Casing made from low-nitrosamine, silicone and halogen-free solid rubber
- VA screws in rust-free brass press-fit bush with recessed double armature
- Wired ready for connection
- All distribution boards fitted with terminal strip block as standard
- Weight approx. 13.0 - 17.0 kg

### 7900 series: Distribution board

- **Can be supplied with max. 51 automation units (17 per transparent protective cap)**
- Casing made from low-nitrosamine, silicone and halogen-free solid rubber
- VA screws in rust-free brass press-fit bush with recessed double armature
- Wired ready for connection
- All distribution boards fitted with terminal strip block as standard
- Weight approx. 17.0 - 23.0 kg



## Practical examples from trade and industry

---



The requirements for electrical distribution in industry are varied and interesting. This gives us the opportunity to put our wide-ranging expertise to good use. Put us to the test!

- Add-on units, interior fittings, conversions and additions
- Expanded functionality (air as well as power)
- With additional metal designs (carriers, supports, consoles)
- Visual design options (safety, signal)



## Practical examples from power supply

---



Make full use of our experience in power distribution and power supply!

- Service plug sockets in the high voltage sector
- On-location supply to camping sites
- Power supply for maintenance and repairs
- Interior fittings in standard cases



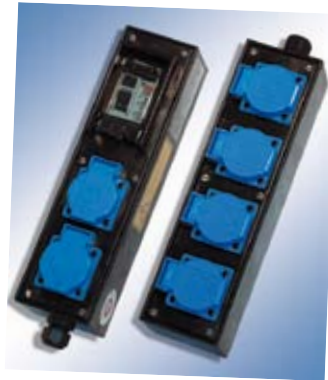
# Small distribution box, solid rubber 1400 /

Series/dimensions

Type 1400 / 78 x 290 x 65 mm (91)

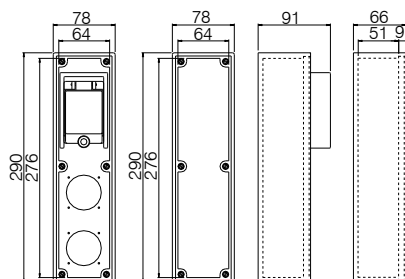
Order No.	Symbol Output	Component	Input/Version	Line protection/ Personal protection
244306		2 x shock-proof	1 x SCG M20 from below	1x RCCB 25/30 mA
211611		4 x shock-proof	1 x SCG M20 from above	Pre-fuse max. 16 A

(SCG=screwed cable gland / LP=line protection / RCCB=residual current operated circuit-breakers)



Choice of cable input for integration. Other fittings on request. Technical data, page 5, accessories, page 17.

Type 1400





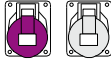



# Small distribution box 2500 / suspended distribution box 2500

Series/dimensions

Type 2500 / 110 x 110 x 79 mm







Order No.	Symbol Output	Component	Input/Version	Line protection/ Personal protection
101646		2 x shock-proof	1 x SCG M20 from above	
115942		2 x shock-proof	1 x SCG M20 from below	
211494		1 x CEE 2x16 A/24 V 1 x CEE 2x16 A/42 V	1 x SCG M20 from below 1 x SCG M20 from below	
205750		1 x CEE 5x16 A/400 V	1 x SCG M25 from below	

(SCG=screwed cable gland / LP=line protection / RCCB=residual current operated circuit-breakers)

Series/dimensions

Type 2500 / 110 x 110 x 79 mm

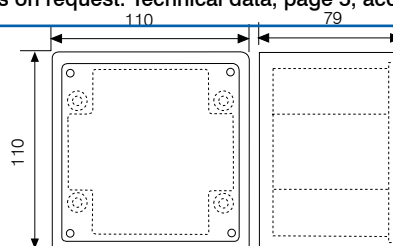


Order No.	Symbol Output	Component	Input/Version	Line protection/ Personal protection
101659		max. 4 x shock-proof	1 x SCG M20 from above	Pre-fuse max. 16 A
109658		1 x CEE 5x16 A/400 V 3 x shock-proof	1 x SCG M20 from above	Pre-fuse max. 16 A
111943		4 x shock-proof 1/2" Compressed air closure	1 x SCG M20 from above	
200463		1 x CEE 3x16 A/230 V 2 x shock-proof 1/2" Compressed air	1 x SCG M20 from above	

Version with 4 suspension eyes and chain  
(SCG=screwed cable gland / LP=line protection / RCCB=residual current operated circuit-breakers)

Choice of cable input for integration. Other fittings on request. Technical data, page 5, accessories, page 17.

Type 2500



# Distribution box, solid rubber 2516 / 7200

Series/dimensions

Type 2516 / 250 x 160 x 90 mm



Order No.	Symbol Output	Component	Input/Version	Line protection/ Personal protection
209346		max. 8 x shock-proof	1 x SCG M20 from above <sup>1)</sup>	
208873		1 x CEE 5x16 A/400 V 3 x shock-proof	1 x SCG M25 from above	
235857		1 x CEE 5x32 A/400 V 2 x shock-proof	1 x SCG M25 from below 1 x SCG M20 from below	
236509		2 x CEE 5x32 A/400 V	1 x SCG M25 from below	
236508		2 x CEE 4x32 A/>50 V 10 h, 100-300 Hz	1 x SCG M25 from below	

Version with 4 suspension eyes and chain possible  
(SCG=screwed cable gland / LP=line protection / RCCB=residual current operated circuit-breakers)

Series/dimensions

Type 7200 / 280 x 160 x 132 mm

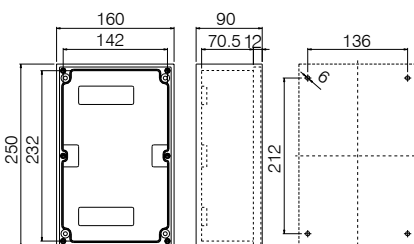


Order No.	Symbol Output	Component	Input/Version	Line protection/ Personal protection
211513		3 x shock-proof	1 x SCG M20 from below	3x LP 16A.1PB 1x RCCB 25/0,03A 4p
211660		2 x CEE 3x16 A/230 V	1 x SCG M32 from below	2x LP 16A.1PB 2x RCCB 25/0,03A 2p
211449		1 x CEE 5x16 A/400 V	1 x SCG M20 from above	1x LP 16A.3PC 1x RCCB 25/0,03A 4p
211452		1 x CEE 5x32 A/400 V	1 x SCG M25 from above	1x LP 32A.3PC 1x RCCB 40/0,03A 4p
211900		1 x CEE 5x32 A/400 V 2 x shock-proof <sup>1)</sup>	1 x SCG M25 from above	no fuse 2x LP 16A.1PB 1x RCCB 40/0,03A 4p
209584		1 x CEE 5x63 A/400 V	1 x SCG M40	1x LP 50A.3PC 1x RCCB 63/0,03A 4p
211399		1 x CEE 5x63 A/400 V	1 x SCG M32 1 main switch 63A	no fuse

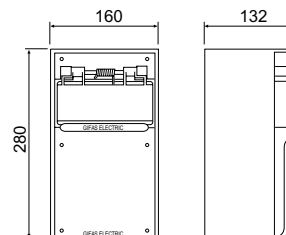
<sup>1)</sup> Sockets partially on distribution frame left and right  
(SCG=screwed cable gland / LP=line protection / RCCB=residual current operated circuit-breakers)

Choice of cable input for integration. Other fittings on request. Technical data, page 5, accessories, page 17.

Type 2516



Type 7200



# Distribution board, solid rubber 7300

Series/dimensions

Type 7300 / 350 x 200 x 132 mm



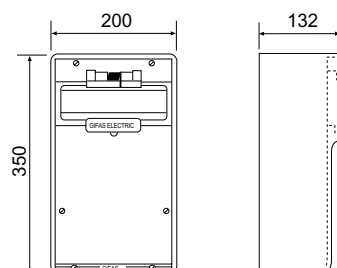
Order No.	Symbol Output	Component	Input/Version	Line protection/ Personal protection
210766		4 x shock-proof	1 x SCG M20 from above	2x LP 16A.1PB 1x RCCB 25/0,03A 4p
210011		1 x CEE 3x16 A/230 V 2 x shock-proof	1 x SCG M25 from above	3x LP 16A.1PB 1x RCCB 25/0,03A 4p
230439		1 x CEE 5x16 A/400 V 2 x shock-proof	1 x SCG M25 from above	1x LP 16A.3PC 2x LP 16A.1PB
209579		1 x CEE 5x16 A/400 V 3 x shock-proof	1 x SCG M25 from above	1x LP 16A.3PC 2x LP 16A.1PB 1x RCCB 40/0,03A 4p
210084		1 x CEE 5x32 A/400 V 2 x shock-proof	1 x SCG M25 from above	1x LP 32A.3PC 2x LP 16A.1PB 1x RCCB 40/0,03A 4p

(SCG=soft start cable gland / LP=line protection / RCCB=residual current operated circuit-breakers)

Choice of cable input for integration. Other fittings on request. Technical data, page 5, accessories, page 17.



Typ 7300



# Distribution board, solid rubber 7400

Series/dimensions

Type 7400 / 370 x 265 x 132 mm

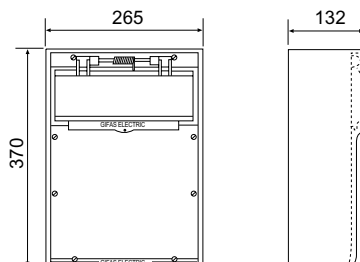


Order No.	Symbol Output	Component	Input/Version	Line protection/ Personal protection
233521		max. 6 x shock-proof	2 x SCG M25 from below for looping through	6x LP 16A.1PB 1x RCCB 40/0,03A 4p
210756		1 x CEE 3x16 A/230 V 5 x shock-proof	1 x SCG M25 from below	6x LP 16A.1PB 1x RCCB 40/0,03A 4p
204282		2 x CEE 5x16 A/400 V 3 x shock-proof	1 x SCG M32 from below	2x LP 16A.3PC 3x LP 16A.1PB 1x RCCB 63/0,03A 4p
234690		2 x CEE 5x32 A/400 V 3 x shock-proof	1 x SCG M32 from below	2x LP 32A.3PC 3x LP 16A.1PB
201889		1 x CEE 5x32 A/400 V 1 x CEE 5x16 A/400 V 3 x shock-proof	1 x SCG M32 from below	1x LP 32A, 3PC 1x LP 16A, 3PC 3x LP 16A, 3PC
200147		1 x CEE 5x32 A/400 V 1 x CEE 5x16 A/400 V 3 x shock-proof	1 x SCG M32 from below	1x LP 32A, 3PC 1x LP 16A, 3PC 3x LP 16A, 1PB 1x RCCB 40/0,03A 4p

(SCG=screwed cable gland / LP=line protection / RCCB=residual current operated circuit-breakers)



Choice of cable input for integration. Other fittings on request. Technical data, page 5, accessories, page 17.





# Distribution board, solid rubber 7700

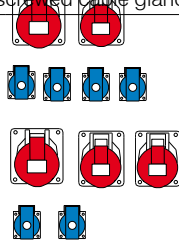
Series/dimensions

Type 7700 / 370 x 336 x 162 mm

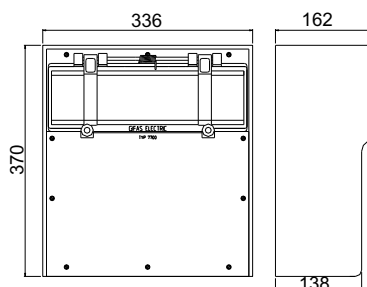


Order No.	Symbol Output	Component	Input/Version	Line protection/ Personal protection
237389		max. 10 x shock-proof	1 x SCG M25 from above	10x LP 16A.1PB 1x RCCB 40/0,03A 4p
237386		1 x CEE 5x32 A/400 V 2 x CEE 5x16 A/400 V 4 x shock-proof	1 x SCG M32 from below	1x LP 32A.3PC 2x LP 16A.3PC 4x LP 16A.1PB 1x RCCB 63/0,03A 4p
237388		1 x CEE 5x63 A/400 V 1 x CEE 5x32 A/400 V 1 x CEE 5x16 A/400 V 3 x shock-proof	1 x SCG M40 from above	no fuse 1x LP 32A.3PC 1x LP 16A.3PC 3x LP 16A.1PB 1x RCCB 63/0,03A 4p

(SCG=soft start cable gland / LP=line protection / RCCB=residual current operated circuit-breakers)



Choice of cable input for integration. Other fittings on request. Technical data, page 5, accessories, page 17.



# Distribution board, solid rubber 7800

Series/dimensions

Type 7800 / 500 x 360 x 133 mm

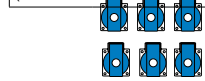


Order No.	Symbol Output	Component	Input/Version	Line protection/ Personal protection
210935		1 x CEE 5x63 A/400 V 3 x CEE 5x16 A/400 V 3 x shock-proof	1 x SCG M40 from below 1 x SCG M40 from above	no fuse 3x LP 16A.3PC 3x LP 16A.1PB 1x RCCB 63/0,03A 4p 1x RCCB 25/0,03A 4p
208217		1 x CEE 5x63 A/400 V 2 x CEE 5x32 A/400 V 2 x CEE 5x16 A/400 V 6 x shock-proof	1 x SCG M40 from below <sup>2)</sup>	no fuse 2x LP 32A.3PC 2x LP 16A.3PC 6x LP 16A.1PB 1x RCCB 40/0,03A 4p

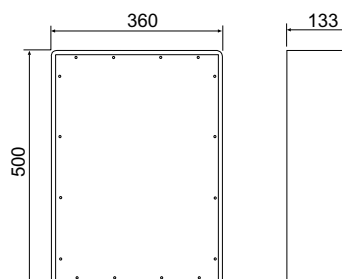
<sup>1)</sup> Sockets partially on distribution frame left and right

<sup>2)</sup> 63 A main switch for total shut-down. Sockets partially on distribution frame left and right.

(SCG=screwed cable gland / LP=line protection / RCCB=residual current operated circuit-breakers)



Choice of cable input for integration. Other fittings on request. Technical data, page 5, accessories, page 17.



# Distribution board, solid rubber 7900

Series/dimensions

Type 7900 / 500 x 360 x 173 mm



Order No.	Symbol Output	Component	Input/Version	Line protection/ Personal protection
210237		2 x CEE 5x32 A/400 V 1 x CEE 5x16 A/400 V 4 x shock-proof	CEE 5x63 A/400 V Equipment plug <sup>1)</sup>	2x LP 32A.3PC 1x LP 16A.3PC 2x LP 16A.1PB 1x RCCB 63/0,03A 4p
202418		3 x CEE 5x32 A/400 V 3 x CEE 5x16 A/400 V 6 x shock-proof	1 x SCG M32 from below <sup>2)</sup>	Neozed 25A 3x LP 16A.3PC 6x LP 16A.1PB 1x RCCB 63/0,03A 4p
208214		2 x CEE 5x32 A/400 V 2 x CEE 5x16 A/400 V 6 x shock-proof	1 x SCG M40 from below <sup>1)</sup>	2x LP 32A.3PC 2x LP 16A.3PC 6x LP 16A.1PB 1x RCCB 40/0,03A 4p (for shock-proof)
205292		1 x CEE 5x63 A/400 V 2 x CEE 5x32 A/400 V 2 x CEE 5x16 A/400 V 3 x shock-proof	1 x SCG M63 from above <sup>2)</sup>	Neozed 63A 2x LP 32A.3PC 2x LP 16A.3PC 3x LP 16A.1PB 1x RCCB 63/0,03A 4p
203633		1 x CEE 4x63 A/500 V 1 x CEE 4x32 A/500 V 1 x CEE 4x16 A/500 V	1 x SCG M40 from below Blind coupling from below <sup>3)</sup>	Diazed 63A Diazed 25A Diazed 16A

<sup>1)</sup> Equipment plug on front plate

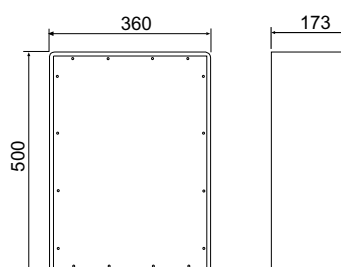
<sup>2)</sup> Sockets partially on distribution frame left and right

<sup>3)</sup> Double distribution boards fitted with 2 C profile rails for wall mounting. Connection panel located behind door. Sockets fitted onto the door.

(SCG=screwed cable gland / LP=line protection / RCCB=residual current operated circuit-breakers)



Choice of cable input for integration. Other fittings on request. Technical data, page 5, accessories, page 17.

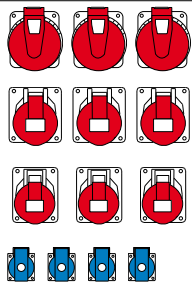


# Distribution board combination, solid rubber 7900

Series/dimensions

Type 7900 / 1000 x 2160 x 236 mm

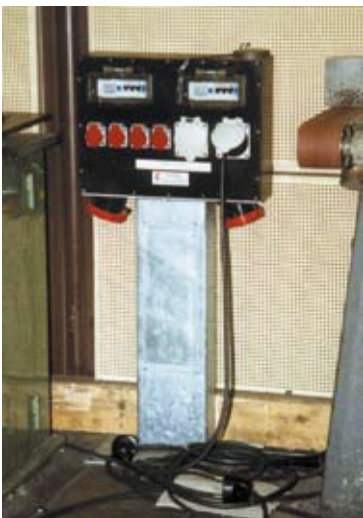
Choice of cable input for integration. Other fittings on request. Distribution boards available with wall fittings or 2 C profile rails. Technical data, page 5, Accessories, page 17.

Order No.	Symbol Output	Component	Input/Version	Line protection/ Personal protection
230902		3 x CEE 5x63 A/400 V 3 x CEE 5x32 A/400 V 3 x CEE 5x16 A/400 V 4 x shock-proof 3 cut-outs and 3 pin outlets M8/5p. 1 KT 4 from below and 5 M12 pins	1 KT 4 und 5 M12 connection bolts for supply line 4x185/95 mm <sup>2</sup> (PEN is divided on the input terminals) 1)	Neozed 63A Neozed 35A Neozed 16A 2x LP 16A.1PB NH 00 160 A NH 2 400 A 6x RCCB 63/0,3A 4p (for CEE) 1x RCCB 40/0,03A 4p (for shock-proof)

<sup>1)</sup> 1 NH 2 400 A as total pre-fuse  
 (SCG=screwed cable gland / LP=line protection / RCCB=residual current operated circuit-breakers)



The GIFAS combi system allows you to combine different series (casing types) together. We design and manufacture made in Germany your distribution boards to your specific requirements. The balanced product range provides an entire system; from basic plug socket combinations to machine controls.





## Accessories - protective caps

### Automated unit protective caps

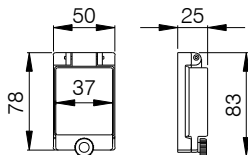


A selection of various protective caps are available as loose components. These parts are normally fixed into the casing cover, but are also available for individual fitting. The transparent folding covers are made from impact-resistant polycarbonate and are fitted with seals in the lower section. A powerful torsion spring guarantees clean closing, which can be improved even further using an adjusting screw. This means that the interior components are protected against the penetration of dirt and damp. The width of the folding covers also ensures that they can be housed in modules (corresponds to a 1-pole LS with  $b=18$  mm).

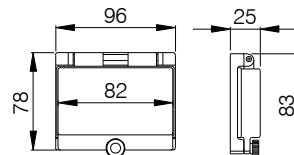
#### Designation

- Protective cap, 2-modules (37 mm)
- Protective cap, 4.5-modules (82 mm)
- Protective cap, 9-modules (162 mm)
- Protective cap, 10.5-modules (195 mm)
- Protective cap, 13-modules (232 mm)
- Protective cap, 17-modules (308 mm)
- Knurled screw, M4x20 mm

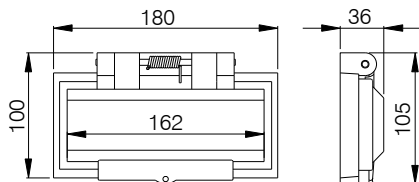
Item no. 100484



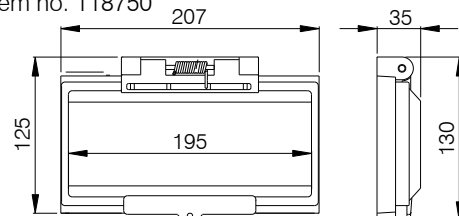
Item no. 201066



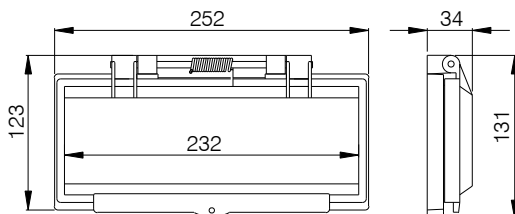
Item no. 118752



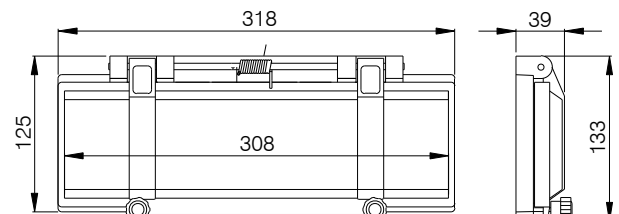
Item no. 118750



Item no. 231797



Item no. 203000



## Practical examples from disposal/processing



A favoured specialism at GIFAS distribution board systems is the traditional fields of sewage clarification and refuse combustion.

- Outdoor installations in extreme conditions
- Special designs (frequently modified for specific requirements) for consoles, supports and similar
- Combinations of plug socket distribution with system and safety switches
- Open and/or closed versions
- Use of special materials



## Practical examples from leisure and sport

---

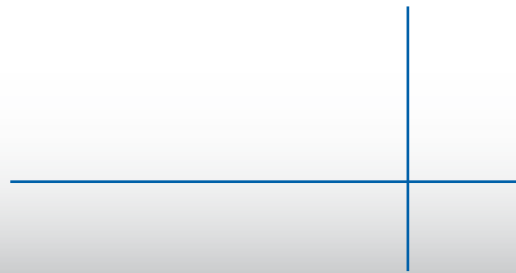


Discussions with partners in the field of leisure and sport frequently produce impressive solutions.

- Diverse, variable, efficient and cost-effective
- Inclusion of framework conditions and environmental influences
- Simple access, safe handling
- Robust designs



# Contact us



We look forward to become acquainted with you personally!

Custom made solutions

**GIFAS W.J. Gröninger ELECTRIC GmbH**  
Borsigstrasse 9 • D-41469 Neuss  
Postfach 21 03 63 • D-41429 Neuss  
Phone 02137 105-0 • Fax 02137 105-230  
<http://www.gifas.de> • [verkauf@gifas.de](mailto:verkauf@gifas.de)

