Power distribution boxes 1

05/2006

Correct power distribution – everywhere

correct power distribution always and everywhere

Your wish is our command

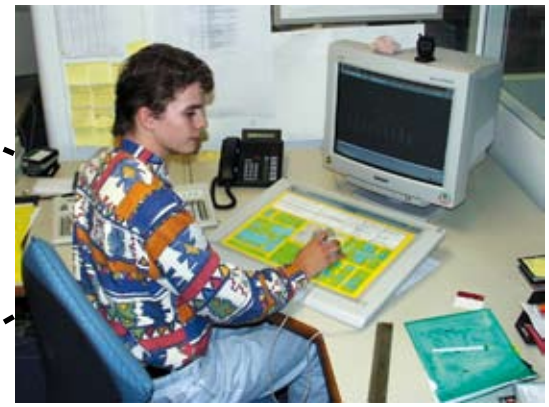
GIFAS-ELECTRIC

Contents

GIFAS-ELECTRIC

From enquiry to custom-designed product

On-site advice:
- Problem clarification
- Discussion
- Design conforming to fitting requirements



Planning/quote (CAD):
- Feasibility test
- Determine components
- Create parts list

Installation according to drawing and work order

Recorded initial check conforming to EN 60439 (routine check test)

Shipping

Rubber, our material

Natural rubber and how it is extracted
Natural rubber is extracted by tapping trees (Hevea brasilienis) to obtain 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 by 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 india rubber/normal rubber
India rubber and india rubber mixtures are ductile materials. A material is ductile if after shaping and after removing the shaping force, it retains its new shape.
Normal 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 Gifas production sites
Gifas uses a synthetic polymer SBR india rubber as the base material; this has the optimum properties of all the 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 india 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 forms the starting point for countless uses in electrical engineering.

Notes on installation

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

In addition to 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 highly practical and comprehensible solutions for our customers. In addition to a compact distribution box 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 boxes, 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.

GIFAS-ELECTRIC

Technical data on hard rubber

Electrical properties:

The data given here represents the minimum values. They may vary from the minimum values depending on the environment (air humidity, temperature, chemical influences, etc.).

Electric strength 2600 V/mm
Values measured in accordance with VDE 0303T3. This conforms to an electrical strength of 26,000 V at our average casing thickness of 10 mm.

Forward resistance 7 Mega Ohm/mm
Values measures in accordance with VDE 0303, section 5.

Surface resistance 6 Mega Ohm
Values measured in accordance with VDE 0303T3. Static charge.

Creep resistance > KB 175
Creep resistance is the resistance of the rubber to the occurrence of creep current traces according to DIN 53480 KB process.

Mechanical data:

The mechanical values are based on mean values for a hard rubber plate. Depending on the casing type, the shape means that higher mechanical demands can made.

Shore A hardness 95 ±3
High form stability is achieved thanks to the Shore hardness. Shore hardness is the resistance of the surface to the penetration of a body with a defined force of pressure. The company Gifas creates the casing and the plug equipment at 95 Shore.

Tensile strength 6 Mpa
The tensile strength of vulcanised rubber for Gifas products is 6 Mega Pascal. This corresponds to a strain of 0.6 kg per 1 mm^2 surface.

Ductile yield 170 +10 %
The material rubber has a ductile yield of 170 %. This material can therefore be stretched to x 1.7 before it rips.

Impact resilience 19 %
Impact resilience is the recovery of rubber products at a maximum lengthening, e.g. 170 % and with our rubber mixture this is 1.19 times the original length.

Specific weight 1.48 kp/dm^3
The high density of the rubber is shown by a comparison with water (1 kp/dm^3 at 4 °C)

Thermal data:

The data given are mean values for various test samples.

Temperature resistance
Heat resistant easily up to +80 °C in continuous exposure, and for short periods over 100 °C.
Cold resistance (retaining the elasticity levels) up to -45 °C.

Ozone strength
Gifas solid rubber products have been subjected to an artificial aging test with conc. 50 pphm 03, test temperature 24 °Celsius, 24 hours, and passed this test with very good results.

UV resistance
The black design provides permanent UV resistance.
The coloured types offer only limited UV resistance, depending on the colour.

Other features:

Halogen-free
Gifas solid rubber products are completely halogen-free and are not tainted with any silicone-based materials. There is no combustion of toxic gases (poisonous).

Behaviour in fire
Barely flammable and self-extinguishing (according to glow wire test 960 °C and test with a needle flame EN 60695-2-2).

Resistance to chemicals
The hard rubber is in general resistant to alkalis and acids used in industry. The same chemicals can react very differently depending on the environment (temperature, humidity, pressure, etc.)
. At exposed sites it is advisable to conduct the tests using a rubber sample.

Temperature conductance (condensate formation)
Rubber in vulcanised form is a poor conductor of heat. The thick-walled design of all casings provides very good storage of the given temperature (inside and outside). The dew point (time when humid air condenses) is therefore only transferred very slowly towards the inside. The risk of moisture condensate forming on the inside is virtually excluded.

Resistance to aging
Years of use has not resulted in any problems with aging (becoming hard or brittle, etc.).

Non-odorous
The material used is absolutely odour-neutral.

Long service life
The formula for the rubber mixture, continuous quality assurance and years of experience in rubber processing ensure extended usage periods.

Practical examples from the field of electricity supply

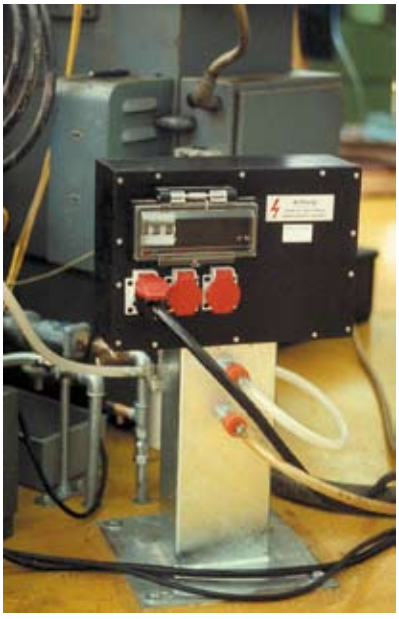
Use our experience in power distribution and electricity supply!

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

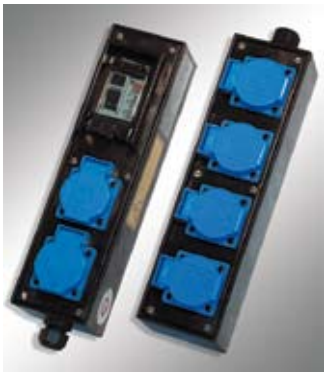
Practical examples from trade and industry

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)
- Optical design options (safety, signal)

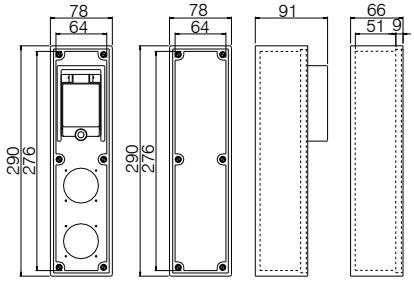


Small distribution box, hard rubber

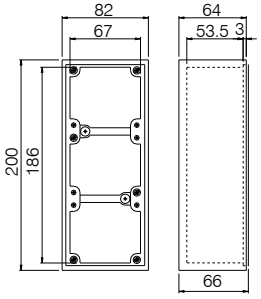
Series/dimensions	Item no.	Symbol output	Output	Input	Line protection/ Personal protection
Type 1400 / 78 x 290 x 66 mm (91)					
	30007		2 x T13	1 x SCG M20	1x RCCB 25/30 mA
	40023		2 x T13	1 x SCG M20	1x RCCB 25/10 mA
	40028		4 x T13	1 x SCG M20	Pre-fuse max. 16 A
	39648		2 x T13 2 x T15	1 x SCG M20	Pre-fuse max. 16 A
	55227		3 x T13 1 x T15	1 x SCG M20	Pre-fuse max. 16 A
	(SCG=screwed cable gland / LP=line protection / RCCB=residual current operated circuit-breakers)				
Type 1600 / 82 x 200 x 64 mm					
	31921		3 x T13	1 x SCG M20	Pre-fuse max. 16 A
	40033		1 x T13 2 x T15	1 x SCG M20	Pre-fuse max. 16 A
	40037		3 x CEE 3 x16 A/230 V	1 x SCG M20	Pre-fuse max. 16 A
	(SCG=screwed cable gland / LP=line protection / RCCB=residual current operated circuit-breakers)				
Type 2612 / 120 x 260 x 75 mm					
	40039		6 x T13	1 x SCG M20	Pre-fuse max. 16 A/30 mA
	89627		6 x T15	1 x SCG M20	Pre-fuse max. 16 A
	40048		2 x T13 1 x T15 1 x J15/5	1 x SCG M20	Pre-fuse max. 16 A
	40041		2 x T13 2 x T15	1 x SCG M20	Pre-fuse max. 16 A
	40055		1 x CEE 3 x 16 A/230 V 1 x CEE 5 x 16 A/400 V	1 x SCG M20	Pre-fuse max. 16 A
	(SCG=screwed cable gland / LP=line protection / RCCB=residual current operated circuit-breakers)				

Other fitting options on request. For accessories such as supports, protective caps, etc. see page 23-25.

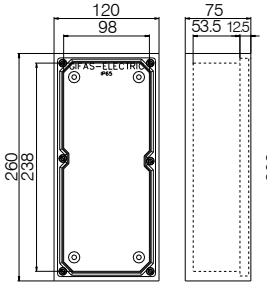
Type 1400



Type 1600



Type 2612



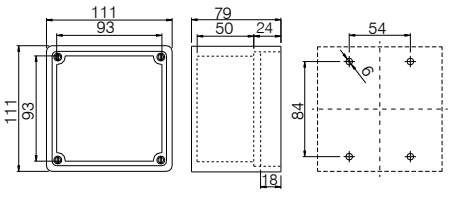
GIFAS-ELECTRIC

Small distribution box, hard rubber

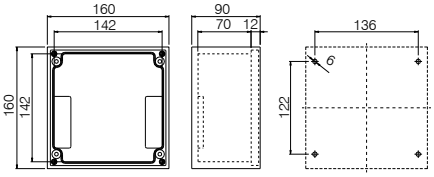
Series/dimensions	Item no.	Symbol output	Output	Input	Line protection/ Personal protection
Type 2700 / 111 x 111 x 79 mm					
	40056		2 x T13	1 x SCG M20	Pre-fuse max. 16 A
	40065		2 x T15	1 x SCG M20	Pre-fuse max. 16 A
	40063		4 x T13	1 x SCG M20	Pre-fuse max. 16 A
	(SCG=screwed cable gland / LP=line protection / RCCB=residual current operated circuit-breakers)				
Type 1616 /160 x 160 x 90 mm					
	40066		4 x T13	1 x SCG M20	Pre-fuse max. 16 A
	40068		2 x T13 2 x T15	1 x SCG M20	Pre-fuse max. 16 A
	40071		2 x T13 2 x CEE 3 x 16 A/230V	1 x SCG M20	Pre-fuse max. 16 A
	(SCG=screwed cable gland / LP=line protection / RCCB=residual current operated circuit-breakers)				
Type 2516 / 160 x 250 x 90 mm					
	40072		3 x T13 1 x T15 1 x J15/5	1 x SCG M20	Pre-fuse max. 16 A
	57058		3 x T13 1 x T15 1 x CEE 5x 16 A/400V	1 x SCG M20	Pre-fuse max. 16 A
	40075		2 x T13 2 x J15/5	1 x SCG M20	Pre-fuse max. 16 A
	40074		4 x T13 1 x CEE 5 x 16 A/400V	1 x SCG M20	Pre-fuse max. 16 A

Other fitting options on request. For accessories such as supports, protective caps, etc. see page 23-25.

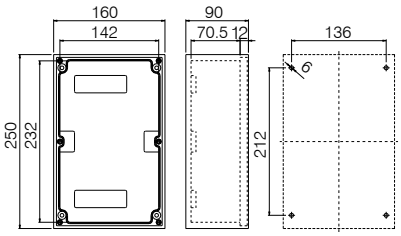
Type 2700



Type 1616



Typ 2516



Small distribution box, hard rubber

Type 2812 / 120 x 268 x 132 mm

Series/dimensions	Item no.	Symbol output	Output	Input	Line protection/ Personal protection
	57019		2 x T13 2 x T15	1 x SCG M20	Pre-fuse max. 16 A 1x RCCB 40/30 mA
	30016		1 x T15 1 x J15/5	1 x SCG M20	Pre-fuse max. 16 A 1x RCCB 40/30 mA
	57022		1 x T15 1 x CEE 5 x 16 A/400V	1 x SCG M20	Pre-fuse max. 16 A 1x RCCB 40/30 mA
	40147		1 x T13 1 x CEE 5 x 16 A/400 V	1 x SCG M20	Pre-fuse max. 16 A 1x RCCB 40/30 mA

Type 3020 / 200 x 300 x 110 mm

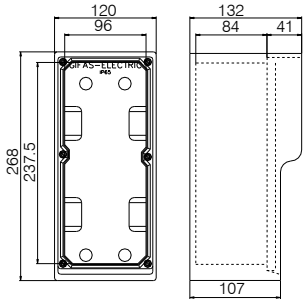
57023		1 x J25/5	1 x SCG M25	1x RCCB 40/30 mA
57024		1 x J40/5	1 x SCG M32	1x RCCB 40/30 mA
57025		1 x CEE 5 x 32 A/400 V	1 x SCG M32	1x RCCB 40/30 mA

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

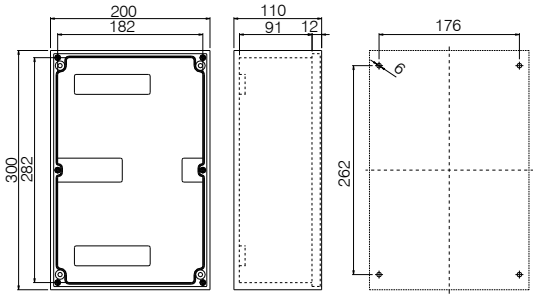
T CE

Other fitting options on request. For accessories such as supports, protective caps, etc. see page 23-25.

Type 2812



Type 3020



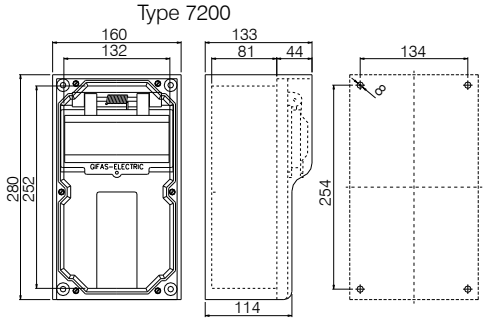
GIFAS-ELECTRIC

Wall-mounted distribution box, hard rubber 7200/7250

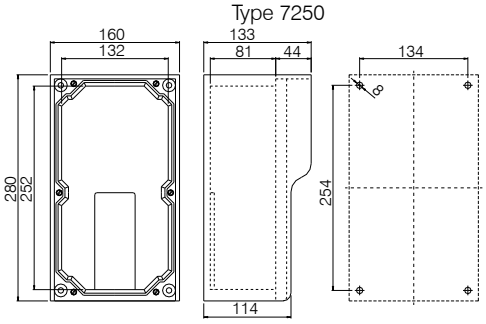
Series/dimensions	Item no.	Symbol output	Output	Input	Line protection/ Personal protection
Type 7200 / 160 x 280 x 133 mm					
	40091		4 x T13	1 x SCG M20	2x LP 16A. 1P.C 1x RCCB 25/30 mA
	62428		3 x T13 1 x T15	1 x SCG M25	1x LP 16A. 3P.C 1x RCCB 40/30 mA
	84276		2 x T13 2 x T15	1 x SCG M25	1x LP 16A. 3P.C 1x RCCB 40/30 mA
	70005		1 x J25/5	1 x SCG M32	1x LP 25A. 3P.C 1x RCCB 40/30 mA
	70006		1 x J40/5	1 x SCG M32	1x LP 40A. 3P.C 1x RCCB 40/30 mA
	40099		1 x CEE 5 x 32 A/400 V	1 x SCG M32	1x LP 32A. 3P.C 1x RCCB 40/30 mA
(SCG=screwed cable gland / LP=line protection / RCCB=residual current operated circuit-breakers)					
Type 7250 / 160 x 280 x 133 mm					
	40077		3 x T13 1 x T15 1 x J15/5	1 x SCG M20	Pre-fuse max. 16 A
	65026		3 x T13 1 x T15	1 x SCG M20	Pre-fuse max. 16 A
	40078		4 x T13 1 x CEE 5 x 16 A/400V	1 x SCG M20	Pre-fuse max. 16 A
	40082		2 x T13 2 x CEE 5 x 16 A/400 V	1 x SCG M20	Pre-fuse max. 16 A
(SCG=screwed cable gland / LP=line protection / RCCB=residual current operated circuit-breakers)					

Other fitting options on request. For accessories such as supports, protective caps, etc. see page 23-25.

Type 7200



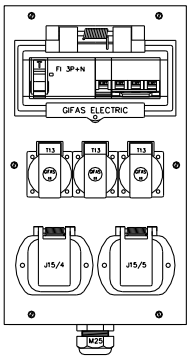
Type 7250

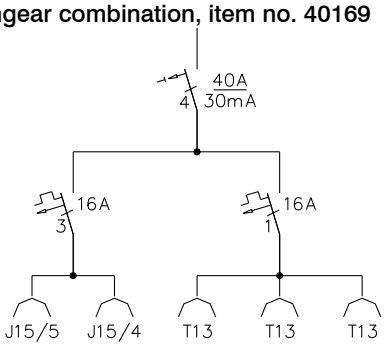


Wall-mounted distribution box, hard rubber 7300

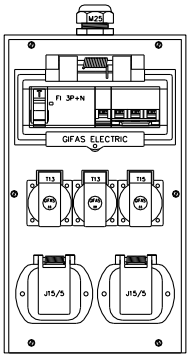
Switchgear combination, type 7300 / W x H x D = 200 x 350 x 133 mm

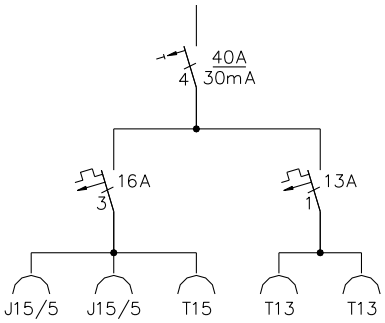
Switchgear combination, item no. 40169



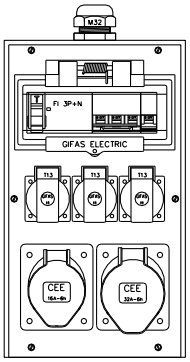


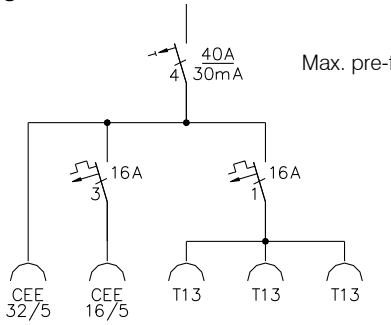
Switchgear combination, item no. 61237





Switchgear combination, item no. 62503





The types shown are examples only.
We would be delighted to create a solution according to your specific assembly requirements!

Practical applications

Power distribution on landing stages

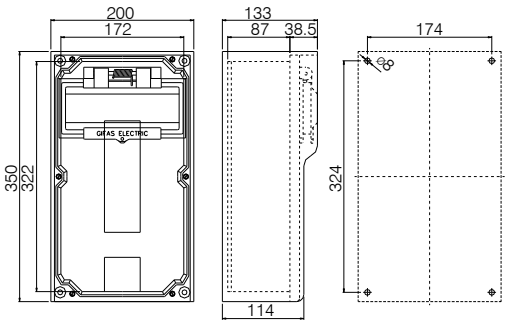
Control and power in V2A column

GIFAS-ELECTRIC

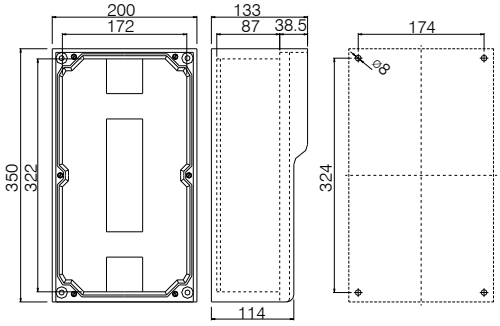
Wall-mounted distribution box, hard rubber 7300/7350

Switchgear combination, type 7350 / W x H x D = 200 x 350 x 133 mm

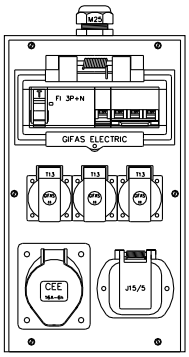
Type 7300

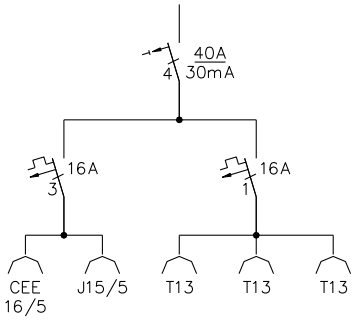


Type 7350 (front without protective cap)

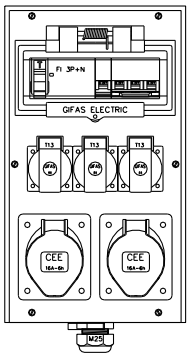


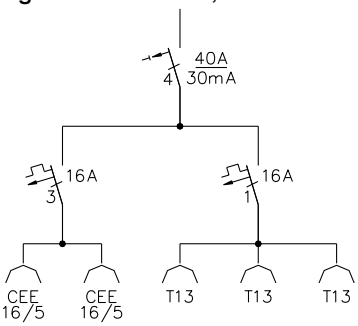
Switchgear combination, item no. 40179



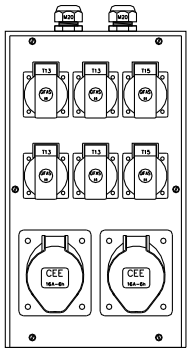


Switchgear combination, item no. 40182

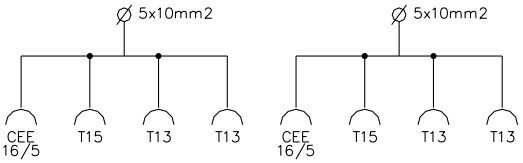




Switchgear combination, item no. 56962 (Type 7350)



Max. pre-fuse 16 A



The types shown are examples only.
We would be delighted to create a solution according to your specific assembly requirements!

Practical applications

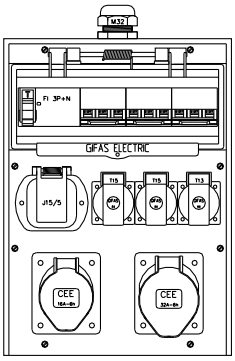
Electrical distribution with fixing, modified for the conditions

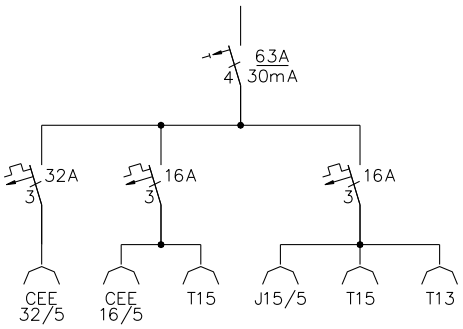
Compact control and power distribution

Wall-mounted distribution box, hard rubber 7400

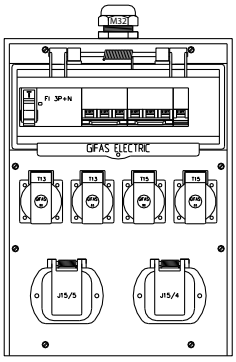
Switchgear combination, type 7400 / W x H x D = 266 x 370 x 133 mm

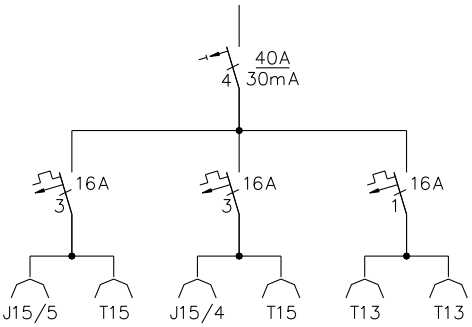
Switchgear combination, item no. 56695



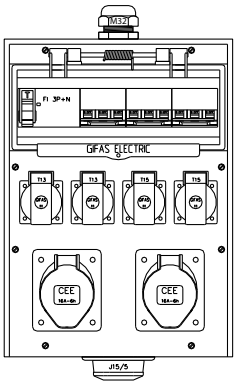


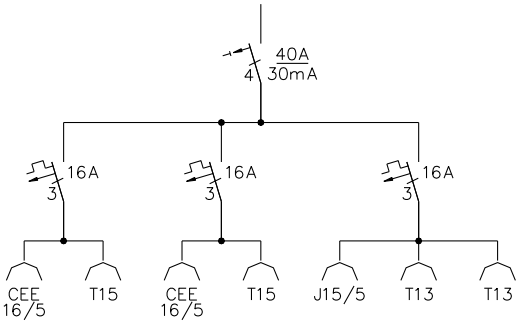
Switchgear combination, item no. 56696





Switchgear combination, item no. 56697





The types shown are examples only.
We would be delighted to create a solution according to your specific assembly requirements!

Practical applications

Control and servicing connections in V2A column

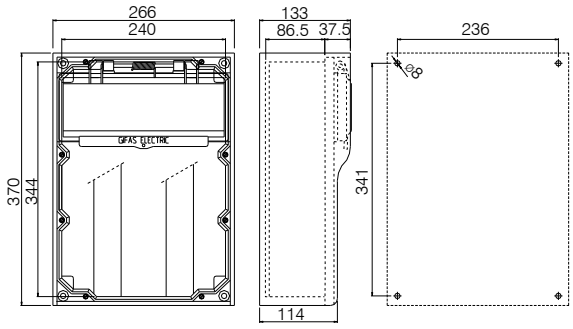
Camping power supply distribution can be locked

GIFAS-ELECTRIC

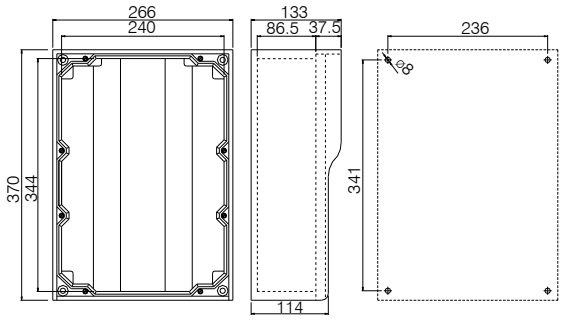
Wall-mounted distribution box, hard rubber 7400/7450

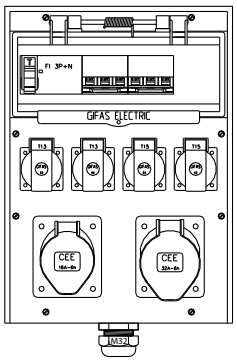
Switchgear combination, type 7400/7450 / W x H x D = 266 x 370 x 133 mm

Type 7400

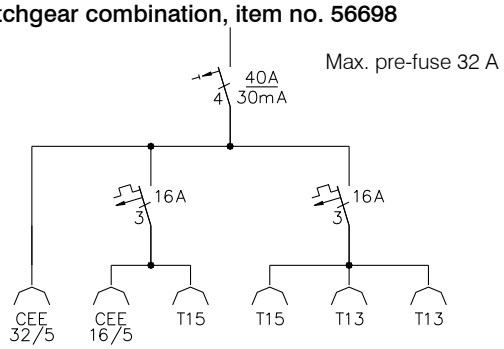


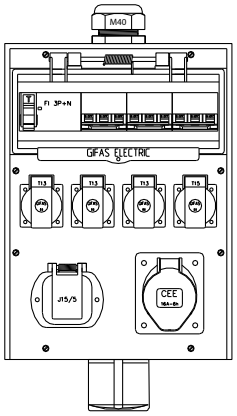
Type 7450 (front without protective cap)



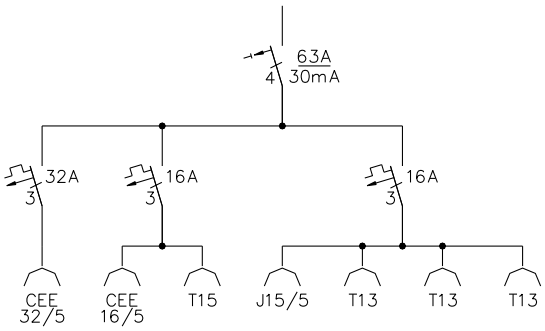


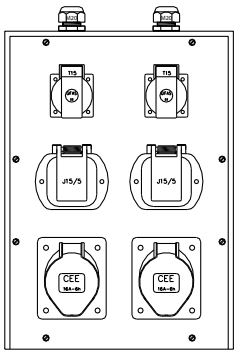
Switchgear combination, item no. 56698



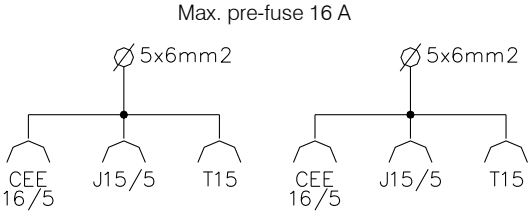


Switchgear combination, item no. 56699





Switchgear combination, item no. 56700 (Type 7450)



Practical applications

Power from workbench

Combination of operating points and power connections in V2A column

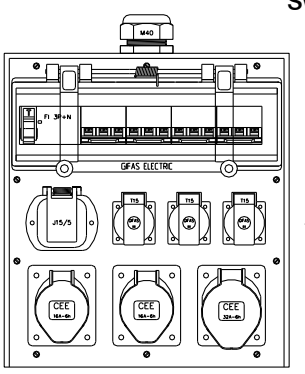
The types shown are examples only.
We would be delighted to create a solution according to your specific assembly requirements!

Wall-mounted distribution box, hard rubber 7700

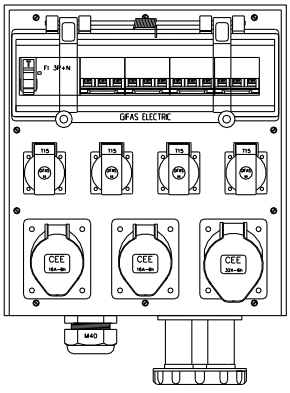
Switchgear combination, type 7700 / W x H x D = 336 x 370 x 162 mm



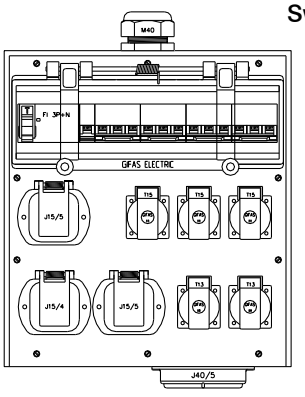
Switchgear combination, item no. 56952



Switchgear combination, item no. 56953



Switchgear combination, item no. 56954



The types shown are examples only.
We would be delighted to create a solution according to your specific assembly requirements!

Practical applications

Power distribution for heating

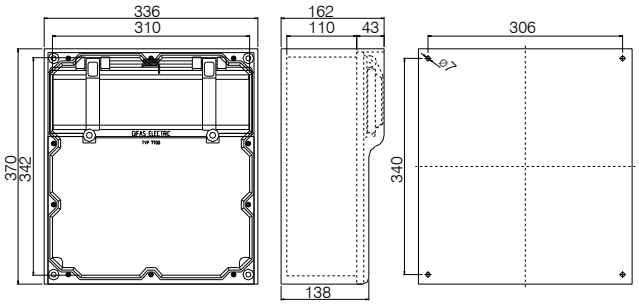
Power distribution for sewage plant

GIFAS-ELECTRIC

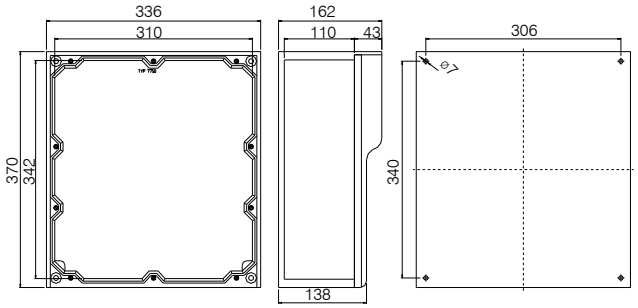
Wall-mounted distribution box, hard rubber 7700/7750

Switchgear combination, type 7700/7750 / W x H x D = 336 x 370 x 162 mm

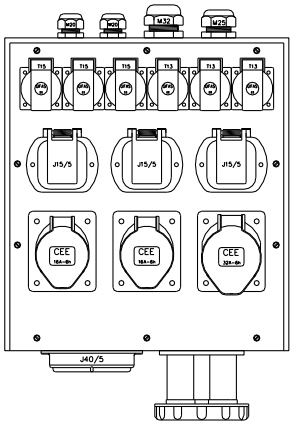
Type 7700

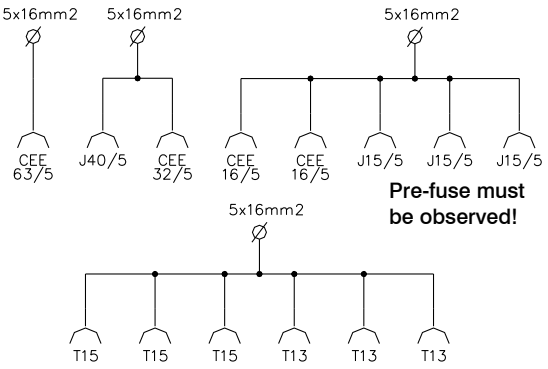


Type 7750 (front without protective cap)

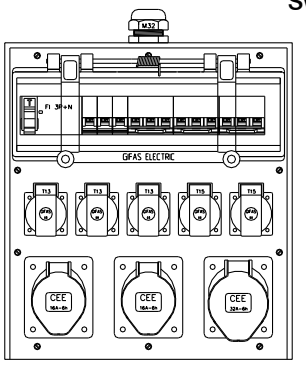


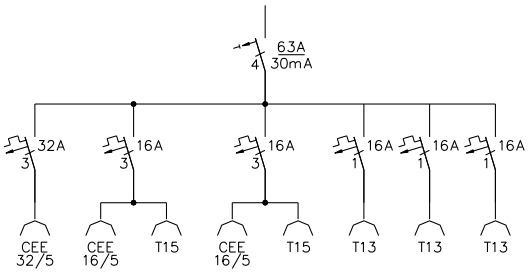
Switchgear combination, item no. 56955 (type 7750)



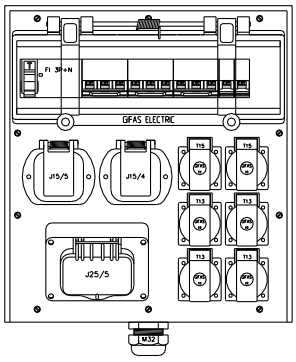


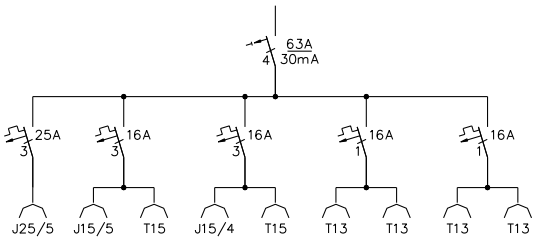
Switchgear combination, item no. 56956





Switchgear combination, item no. 56960





The types shown are examples only.
We would be delighted to create a solution according to your specific assembly requirements!

Practical applications

Power connections integrated into the control

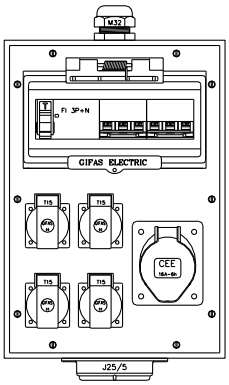
Service/maintenance connections Landing stage

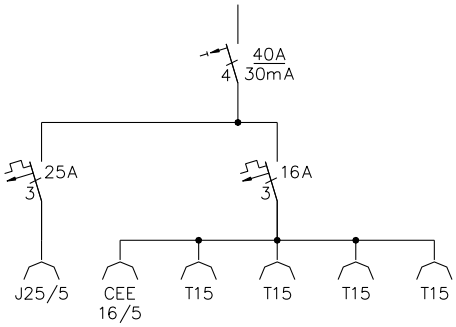
Telefon +41/71 886 44 44 · Telefax +41/71 886 44 49 · www.gifas.ch · gifas.electric@gifas.ch

Installation distribution box, hard rubber 3800

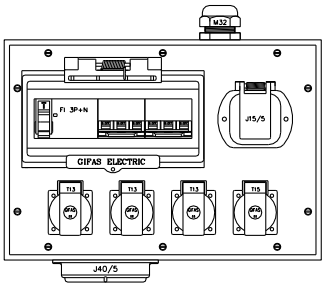
Switchgear combination, type 3800 / W x H x D = 250 x 360 x 133 mm

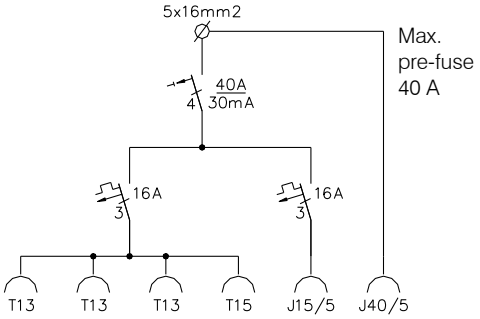
Switchgear combination, item no. 57048



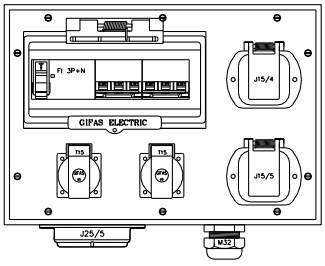


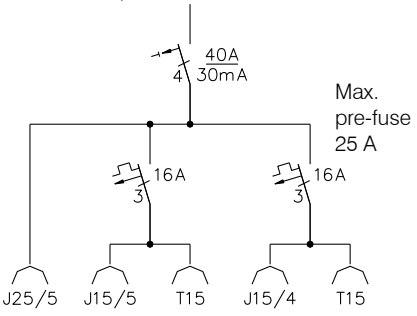
Switchgear combination, item no. 57049





Switchgear combination, item no. 56968





The types shown are examples only.
We would be delighted to create a solution according to your specific assembly requirements!

Practical applications

Workshop power distribution for testing

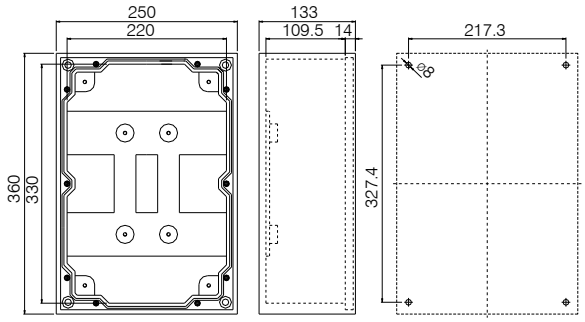
Power connections in factory yard

GIFAS-ELECTRIC

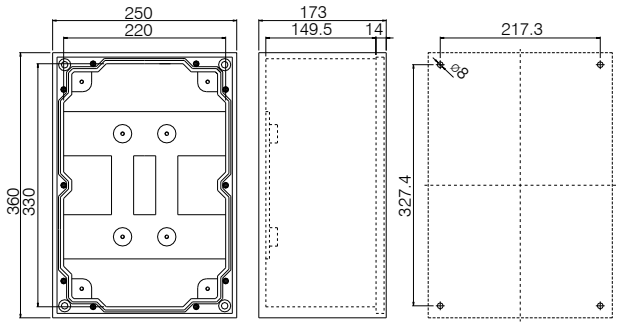
Installation distribution box, hard rubber 3900

Switchgear combination, type 3900 / W x H x D = 250 x 360 x 173 mm

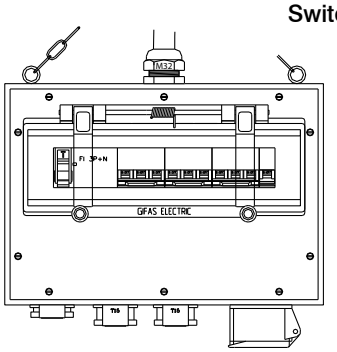
Type 3800

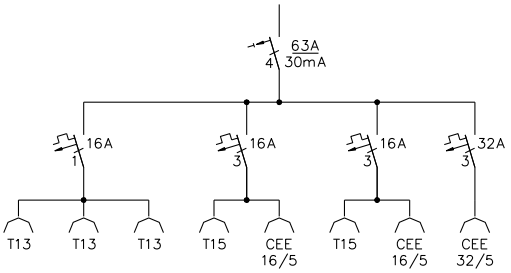


Type 3900

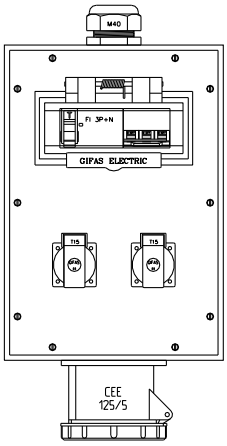


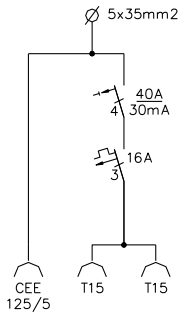
Switchgear combination, item no. 85385





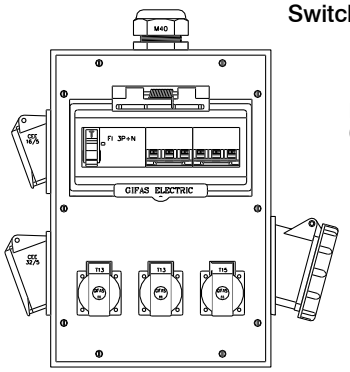
Switchgear combination, item no. 56969



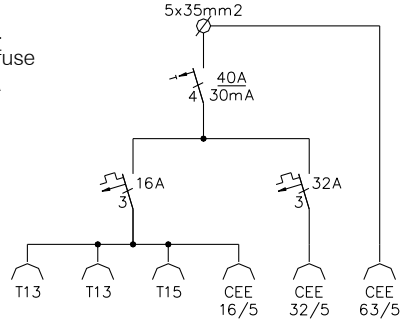


Max. pre-fuse 125 A

Switchgear combination, item no. 40142



Max. pre-fuse 63 A



The types shown are examples only.
We would be delighted to create a solution according to your specific assembly requirements!

Practical applications

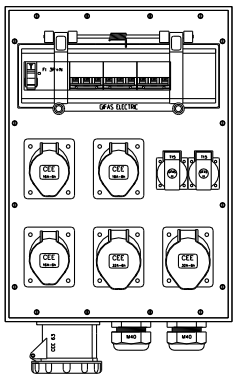
Power distribution for mobile workstation

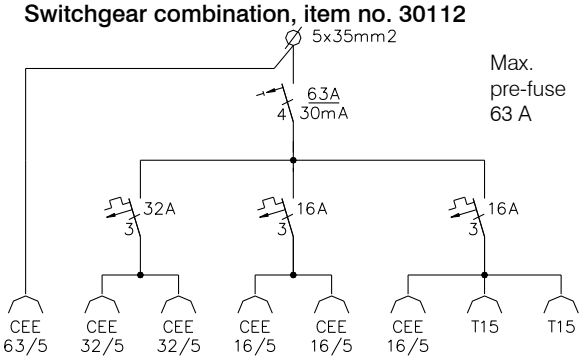
Outdoor connections can be locked

Installation distribution box, hard rubber 7800

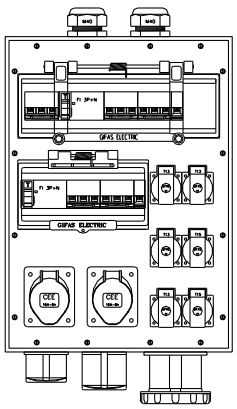
Switchgear combination, type 7800 / W x H x D = 360 x 500 x 133 mm

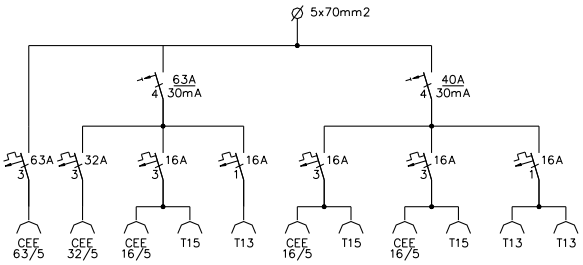
Switchgear combination, item no. 30112



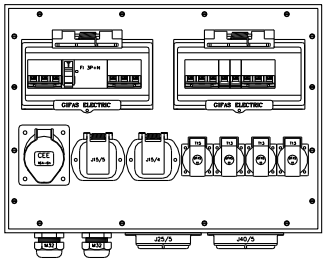


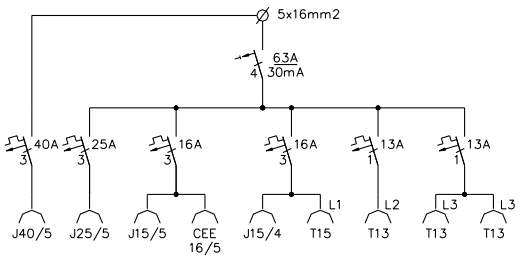
Switchgear combination, item no. 56970





Switchgear combination, item no. 30111





The types shown are examples only.
We would be delighted to create a solution according to your specific assembly requirements!

Practical applications

Power distribution 380/500 V for industry

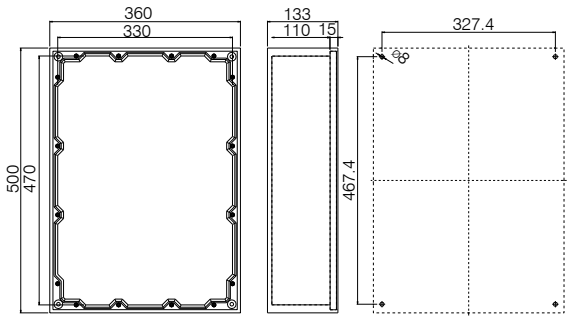
Power distribution in community market square

GIFAS-ELECTRIC

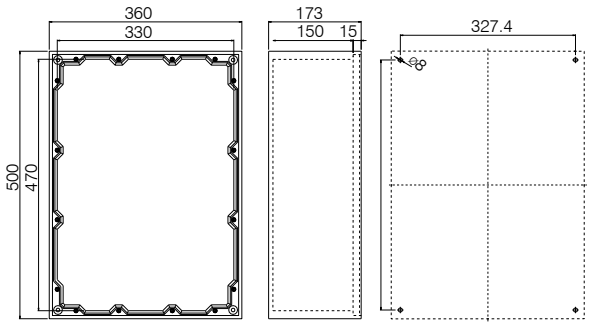
Installation distribution box, hard rubber 7900

Switchgear combination, type 7900 / W x H x D = 360 x 500 x 173 mm

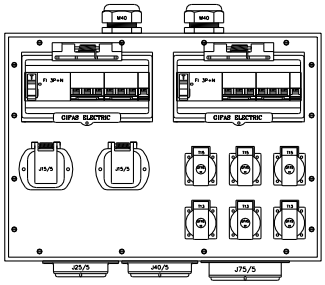
Type 7800

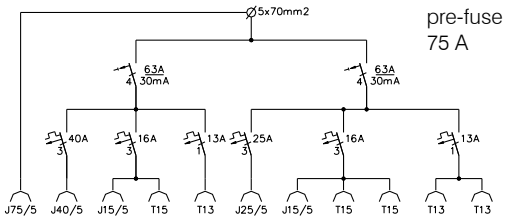


Type 7900 (front without protective cap)



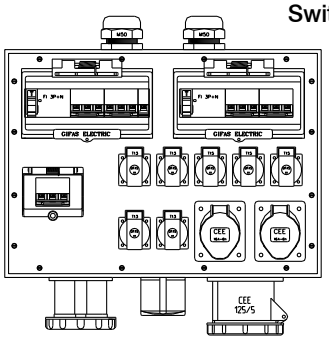
Switchgear combination, item no. 56971

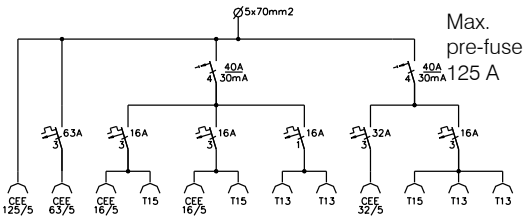




Max. pre-fuse 75 A

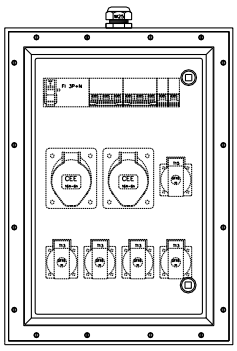
Switchgear combination, item no. 56972

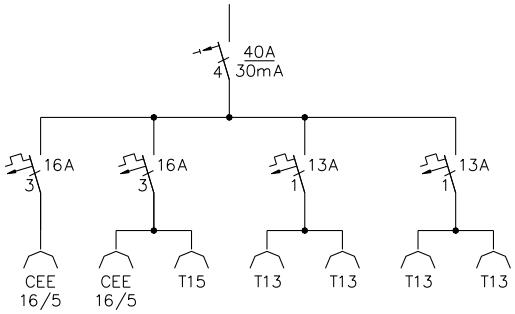




Max. pre-fuse 125 A

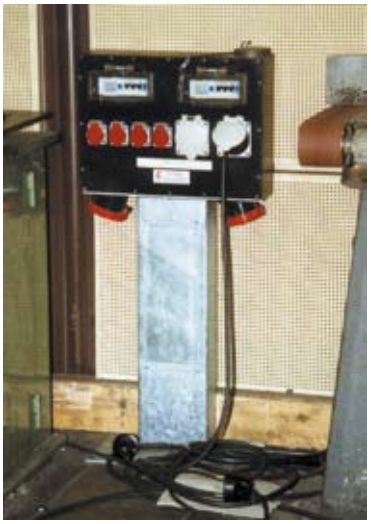
Switchgear combination, item no. 40164





Practical applications

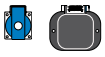
Power distribution in HGV shed



Power distribution for metalworking

The types shown are examples only.
We would be delighted to create a solution according to your specific assembly requirements!

Special distribution boxes for road maintenance

Series/dimensions	Item no.	Symbol output	Output	Input	Line protection/ Personal protection
Type 4512 / 120 x 451 x 147 mm					
	40132		1 x J15/5 1 x Ø 3 x 2,5 (Licht)	1 x SCG M20 1 x SCG M32	1x LP 13A. 1P.C 1x LP 16A. 3P.C 1x RCCB 40/30 mA
	40134		1 x CEE 5 x 16 A/400 V 1 x Ø 3 x 2,5 (Licht)	1 x SCG M20 1 x SCG M32	1x LP 13A. 1P.C 1x LP 16A. 3P.C 1x RCCB 40/30 mA
	37527		1 x T13	1 x SCG M20	1x RCCB/ LP 10/30 mA
	34608		1 x J15/5	1 x SCG M25	1x LP 16A. 3P.C
	32456		1 x CEE 5 x 16 A/400 V	1 x SCG M25	3x LP 16A. 1P.C
	61816		1 x T13 1 x J15/5	1 x SCG M16 1 x SCG M25 2 x SCG M32	1x RCCB 25/30 mA 4x LP 10A. 1P.C
(SCG=screwed cable gland / LP=line protection / RCCB=residual current operated circuit-breakers)					

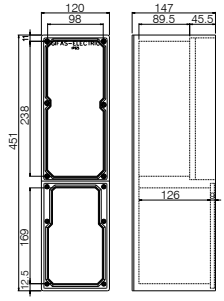
In daily use, e.g. along major roads, these distribution boxes prove their worth under continually changing environmental conditions. The hard rubber is resistant to chemical carbon dioxide bonds and is therefore especially well suited for assembly on roads or in tunnels.

The plug sockets and terminal outputs are used for maintenance, traffic regulation measures or for signal lights (on the motorway for carriageway changeovers, for example)

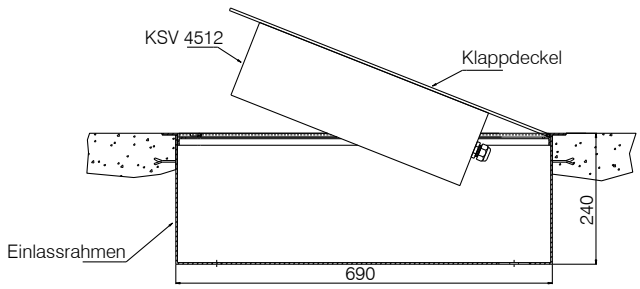
Accessories for type 4512

43283	Special supports (zinc-plated steel)
35198	Concrete base, pre-fabricated as a shaft top section, inner tube Ø 300 mm
27444	Covering cap PE 1050 x 315, inner Ø 296 mm
40105	Covering cap PE 800 x 225, inner Ø 210 mm
44552	Filter mat, white, Ø 302 mm (as insect protection)
21826	Filter mat, white, Ø 214 mm (as insect protection)
30871	V4A strap set, L+R (wall mounting)
51653	Mounting plate V4A (wall/tube mounting)
52654	Shackle V4A for 53 mm tube (fits mounting plate)
52656	Shackle V4A for 65 mm tube (fits mounting plate)
54768	Mast fixing V4A for 60 mm tube (two mast fixing are required per distribution box)
52426	Mast fixing V4A for 76 mm tube (two mast fixing are required per distribution box)

Other fitting options on request.



Type 4512

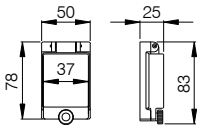


Accessories: Protective caps/fitting brackets

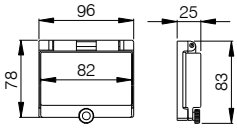
Automated unit protective caps

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).

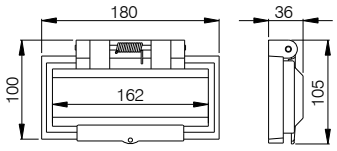
Item no.	Designation
11384	Protective cap, 2-modules (37 mm)
50109	Protective cap, 4.5-modules (82 mm)
11387	Protective cap, 9-modules (162 mm)
11388	Protective cap, 10.5-modules (195 mm)
11392	Protective cap, 13-modules (232 mm)
43710	Protective cap, 17-modules (308 mm)
19522	Knurled screw, M4x20 mm



Art.-Nr. 11384



Art.-Nr. 50109



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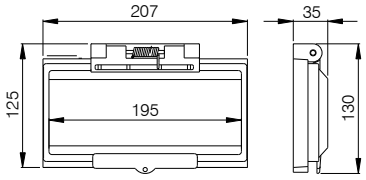
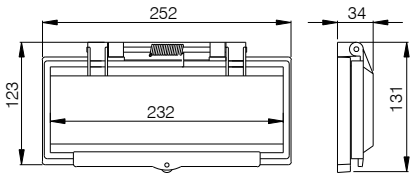
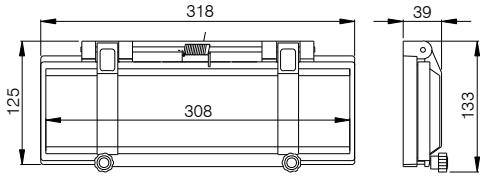


Art.-Nr. 11388



Art.-Nr. 11392



Art.-Nr. 43710

Fitting brackets

At especially exposed installation sites (increased protection rating required) or in problematic installation conditions, it is advisable to use continuous fitting brackets.

– Simplified installation thanks to generously proportioned fitting holes
– Simple measurement of the fixing points required

Item no.	Designation
29461	Aluminium bracket for type 7200 / 380x20x5 mm
29462	Aluminium bracket for type 7300 / 450x20x5 mm
29466	Aluminium bracket for type 7400 / 460x30x5 mm
49131	Aluminium bracket for type 7700 / 470x30x5 mm
50782	Aluminium bracket for type 7800 / 600x30x5 mm
48746	Rust-free V2A bracket for type 7200 / 340x20x5 mm
46546	Rust-free V2A bracket for type 7300 / 410x20x3 mm
43431	Rust-free V2A bracket for type 7400 / 460x20x3 mm
56491	Rust-free V2A bracket for type 7700 / 480x20x4 mm
45780	Rust-free V2A bracket for type 7800 / 580x20x4 mm

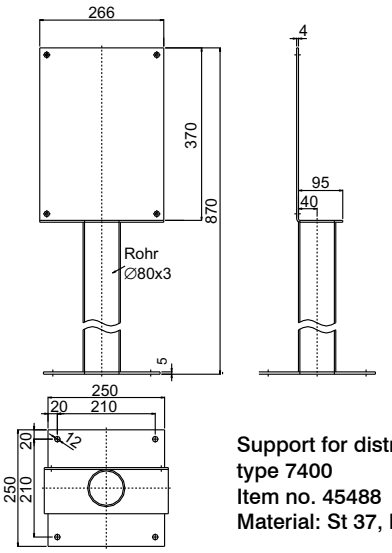
Accessories: Steel consoles

Steel consoles, steel structures

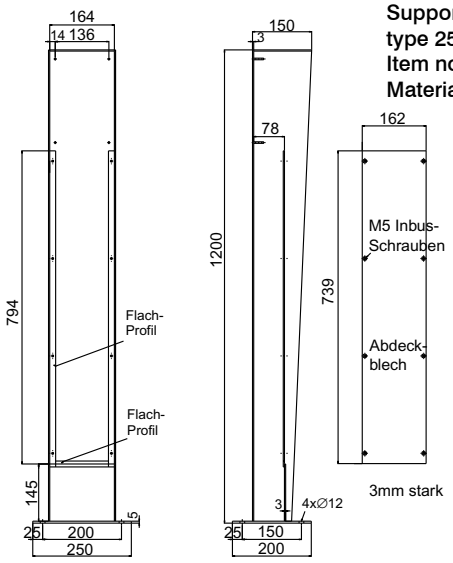
Power columns in an open area, steel structures at exposed locations, wall, ceiling or floor adaptors also form part of our range. Here we use the perfect materials for the task at hand in each case.
– Steel constructions: zinc-plated or painted/powder-coated
– Rust-free material in V2A or in V4A versions

The right solution to every problem. According to your needs and specifications we work with metal and steel engineers to develop the model you need.

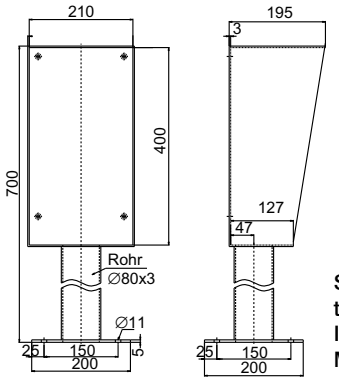
These examples show a small selection of a huge range of options, and are simply offered as an aid to you in your planning work. Allow us to advise you!



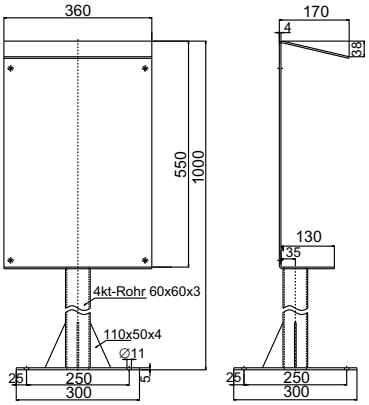
Support for distribution box type 7400
Item no. 45488
Material: St 37, hot-dip galvanised



Support for distribution box type 2516
Item no. 42111
Material: Rust-free V2A



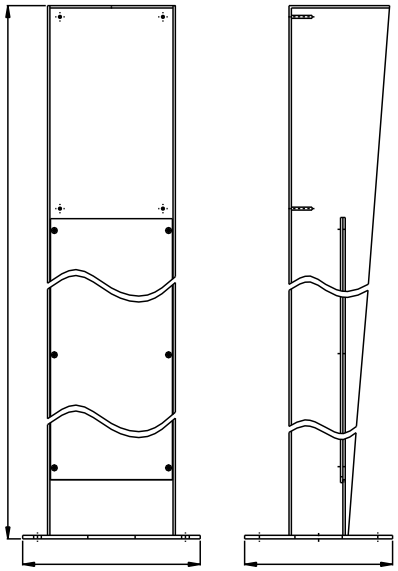
Support for distribution box type 7300
Item no. 43577
Material: V4A



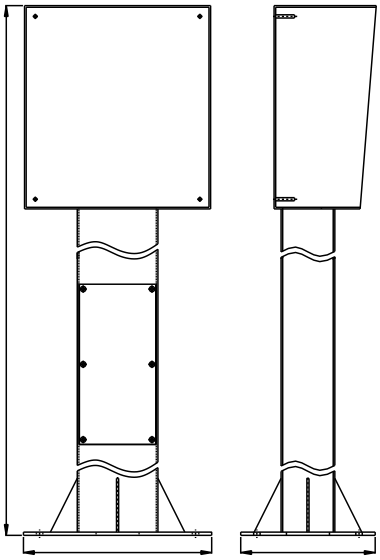
Support for distribution box type 7800
Item no. 42799
Material: St 37, hot-dip galvanised

GIFAS-ELECTRIC

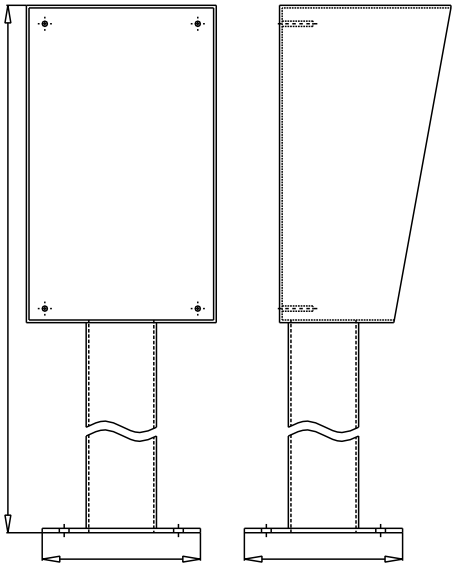
Accessories: supports / steel consoles



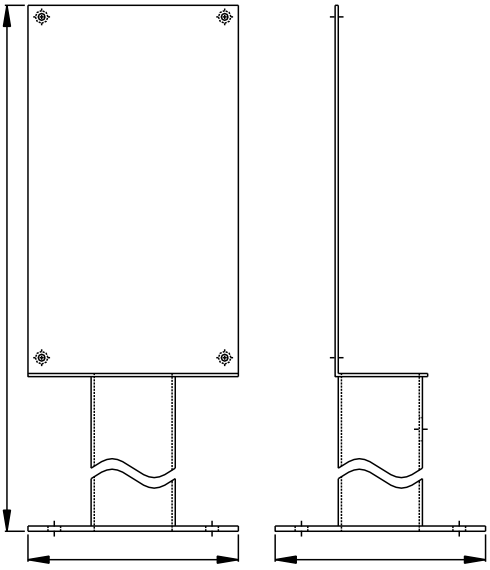
Type KA



Type DE



Type GE



Type OF

With steel supports or consoles in different designs, the on-site combinations can be installed at the correct location as well as being protected against mechanical damage and the effects of the weather. **The steel constructions are powder-coated, zinc-plated or manufactured from rust-free material in V2A or V4A.** In collaboration with experienced technicians and metal engineers we develop the right design for you, tailored to fit the various hard rubber boxes.

Example specifications:
Steel console type **KA** (Gifas Electric), **V2A glass-blasted**, to fit on-site combination type **7350**, overall height **1400 mm**.

Practical examples from disposal/processing

A special subject for GIFAS distribution boxes are 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 for switches for installations and security
- 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
- General conditions and environmental influences taken into account
- Simple access, safe handling
- Robust designs

Get in touch with us

We are looking forward to become acquainted with you personally!

News about the assortment and specific solutions you can find on our website:

www.gifas.ch

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