

GERSANUSA



BUSBAR TRUNKING SYSTEMS



GERSAN



BUSBAR TRUNKING SYSTEMS



ASTA



KEMA

V^{NL}
EIKI



CE

EAC



ISO 9001 / ISO 14001
ISO 45001

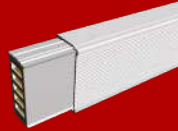


GNL



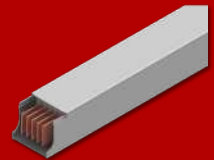
25-40A

GL



40-100A

GM



100-400A

GGD



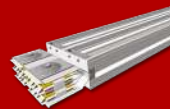
160-400A

GGD



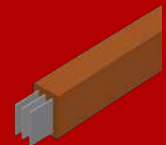
500-1000A

GS-SUPER
COMPACT



400-6300A

GR- CAST
RESIN



500-6000A

DECLARATION OF CONFORMITY

according to TS EN ISO/IEC 17050-1



Manufacturer's Name : GERSAN ELEKTRİK TİC. VE SAN. A.Ş.
Manufacturer's Address : Anadolu Yakası OSB Gazi Bulvarı No:39-41
Tuzla / İSTANBUL-TURKEY

declares that the product

Product Name : **Busbar Trunking System**
Model Number(s) : **GNL, GL, GM, GGD, GS, GR**
Features : **690V/1000V/36kV ; 25A/6000A ; 50/60 Hz ; Class B/F/H ; IP 55/65/68**

conforms with the following standards;

	<u>Applied Standards :</u>	<u>Type Tests :</u>
<i>Safety</i>	: IEC/EN 61439-1/6 IEC/EN 62271 IEC/EN 60529	<i>Temperature Rise Limits</i> <i>Electrical Characteristics</i> <i>Dielectric Properties</i> <i>Short-Circuit Strength</i>
<i>EMC</i>	: IEC/EN 61439-6 Annex K	<i>Effectiveness of The Protective Circuit</i> <i>Clearance and Creepage Distances</i>
<i>FIRE</i>	: DIN 4102-9/12 IEC 60331-21 IEC 60332-3 IEC 60695-2-10/2-13 ISO 834	<i>Mechanical Operation</i> <i>Degree of Protection</i> <i>Structural Strength</i> <i>Crushing Resistance</i> <i>Resistance to Abnormal Heat</i> <i>Resistance to Flame Propagation</i> <i>Fire Barrier in Building Passing</i> <i>EMC</i>

Supplementary Information :

The product herewith complies with the requirements of the Low Voltage Directive and carries the CE Marking accordingly.

This Declaration is granted on accounts of examinations made in ;

ASTA Laboratory, the result of which are laid down in test report no. **16932**
IPH-Berlin Laboratory, the result of which are laid down in test report no. **1624.2080603.709**
VEIKI-VNL Laboratory, the result of which are laid down in test report no. **4552-76 VNL**
LOVAG Laboratory, the result of which are laid down in test report no. **6994/VNL**
LVT Laboratory, the result of which are laid down in test report no. **LVT.D.15-0439-R.00**

İSTANBUL 01.01.20

GERSAN ELEKTRİK A.Ş.
Yüksel KARDEŞ

Quality technology and international standards are held on the first place on production of GERSAN Company. These high standards have been applied to the production in Tuzla / ISTANBUL. Çaycuma-ZONGULDAK has started to apply these standards to the production



ISO 9001 / ISO 14001
ISO 45001

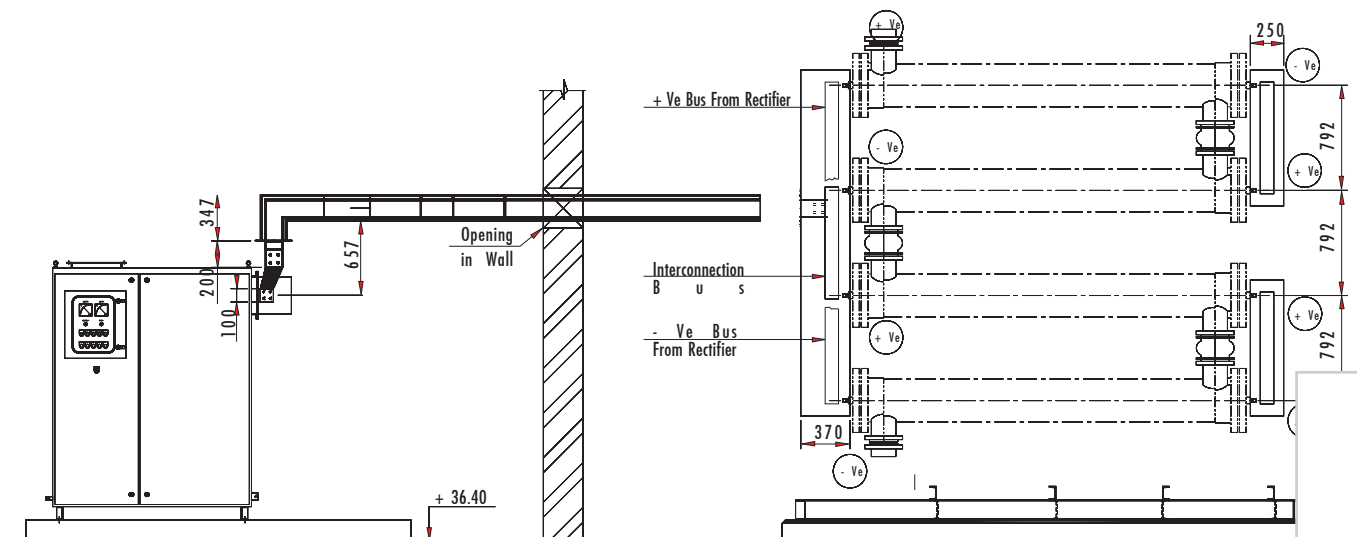
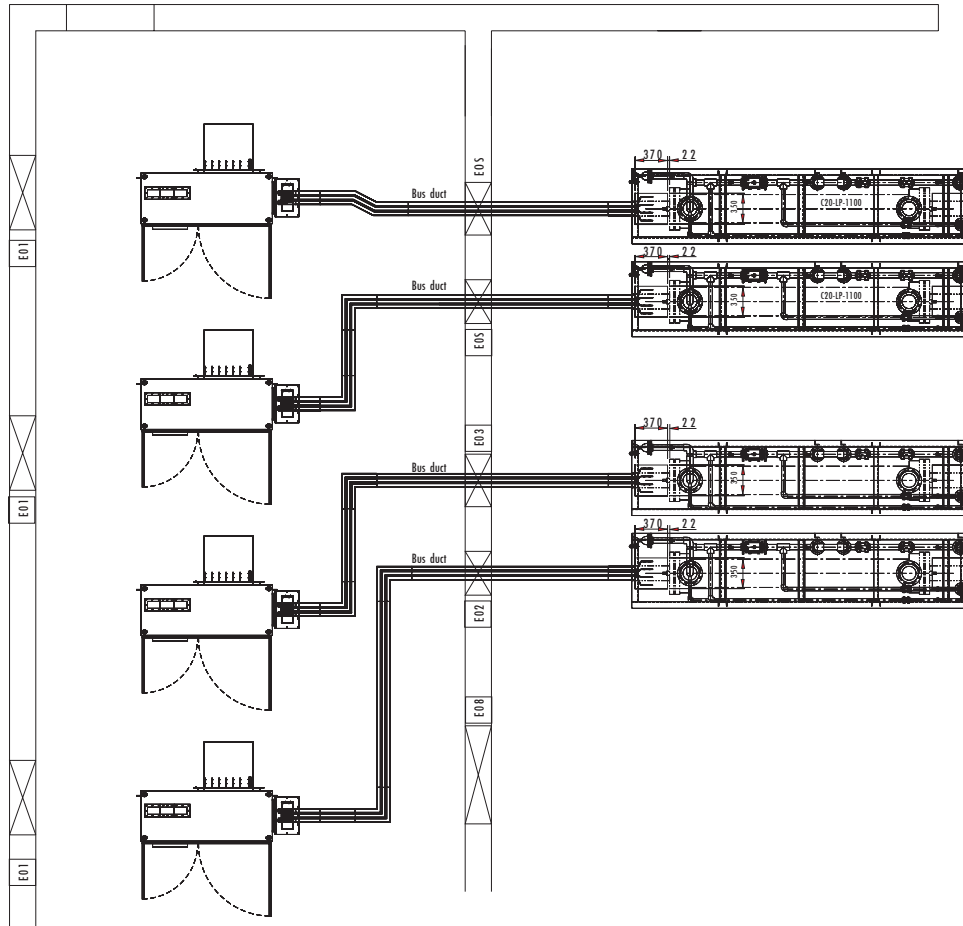
Busbars are guaranteed for 2 years material and 10 years spare part.

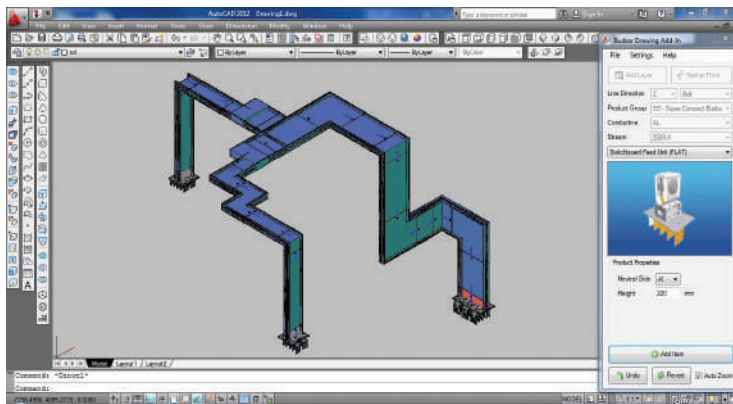
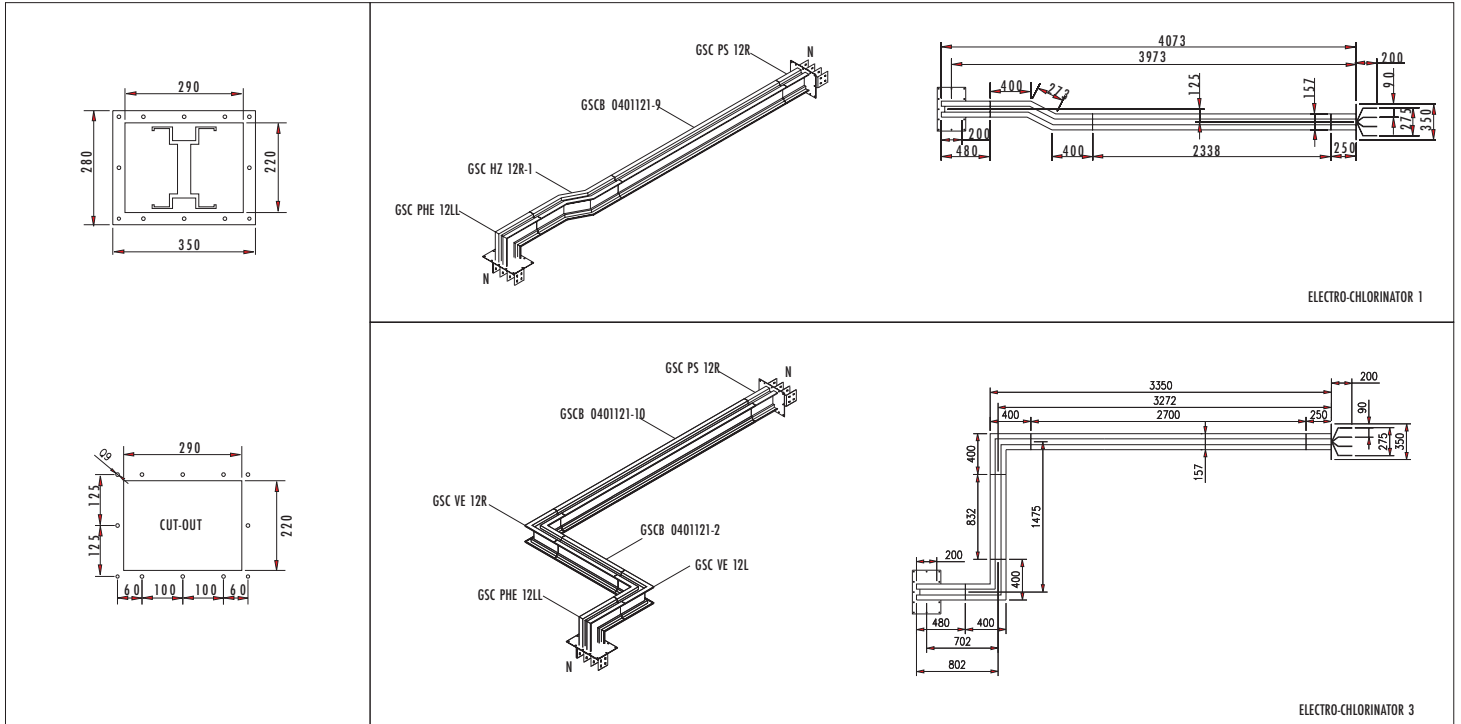
Our busbar systems do comfort the standards listed below.
IEC/EN 60439 - 2. 61439-6. IEC/EN 60529. IEC 60331-21.
DIN 4102-9/12.

GERSAN Busbar systems have type tests (1) listed below.

- * Temperature Rise Limits
- * Dielectric Properties
- * Short-circuit Withstand Strength
- * Effectiveness Of The Protective Circuit
- * Clearances and Creepage Distances
- * Mechanical Operation
- * Degree Of Protection
- * Electrical Characteristics
- * Structural Strength
- * Insulation Resistance
- * Flame Propagation
- * Fire Barrier
- * GERSAN Busbar Systems is under protection with the Useful Model Patent and Design Registration.

(1) According to IEC/EN 61439-6





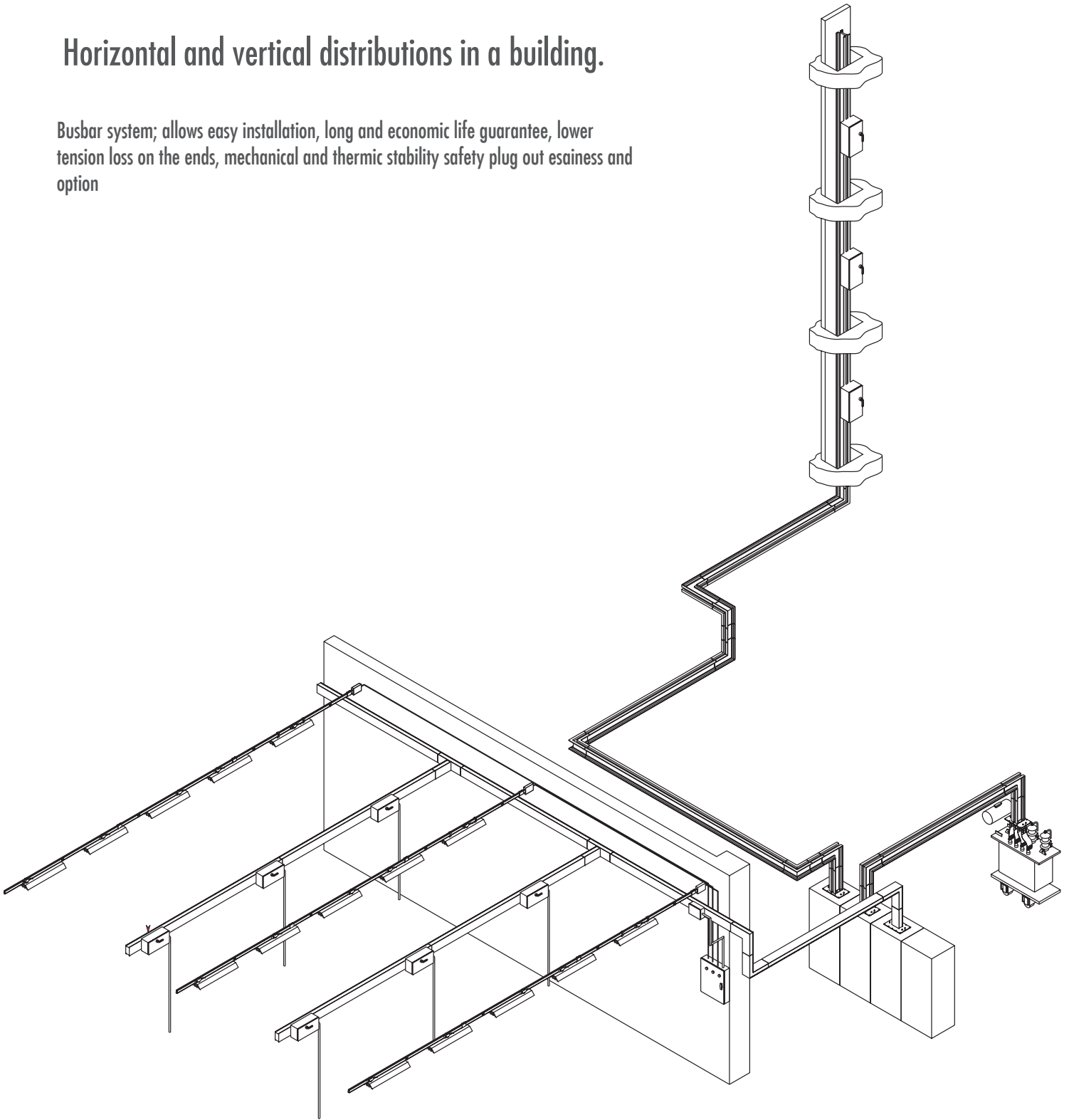
GERSAN BUSBAR PROGRAMME

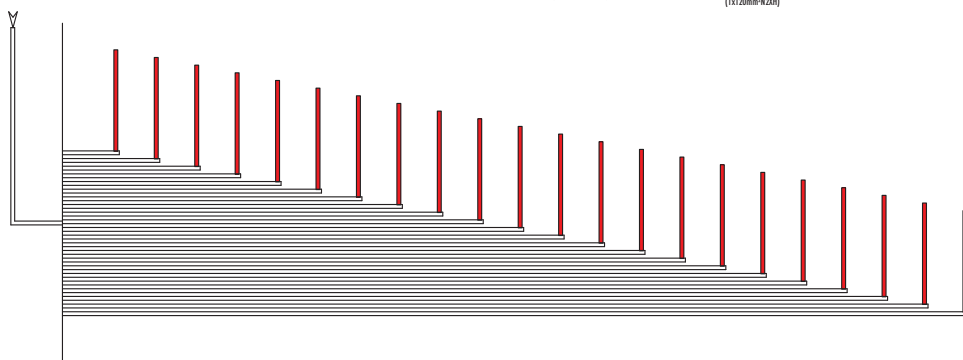
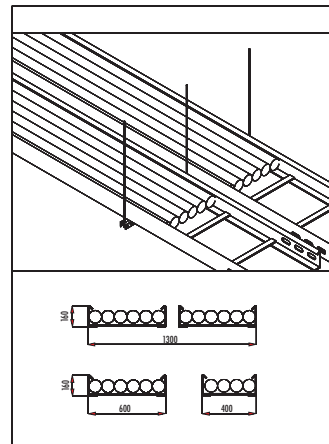
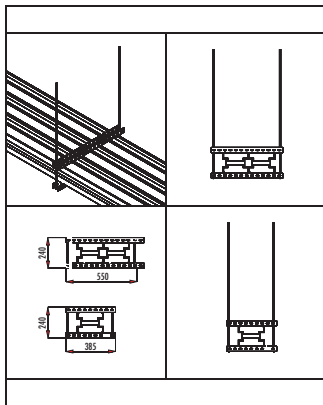
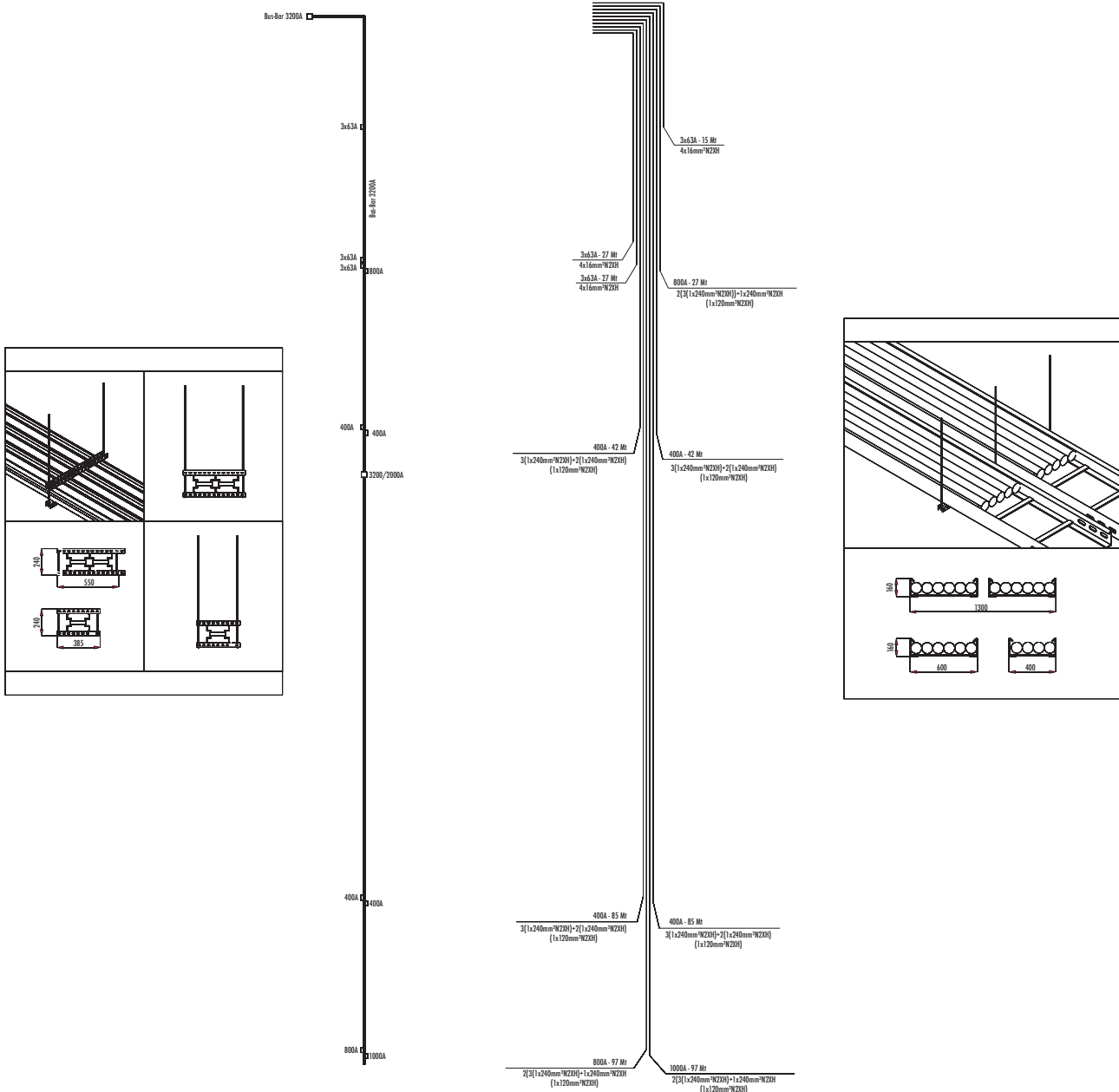


A	B	C	D	E	F	G	H	I
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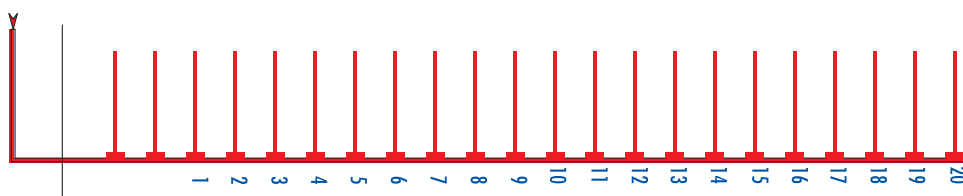
Horizontal and vertical distributions in a building.

Busbar system; allows easy installation, long and economic life guarantee, lower tension loss on the ends, mechanical and thermic stability safety plug out esainess and option



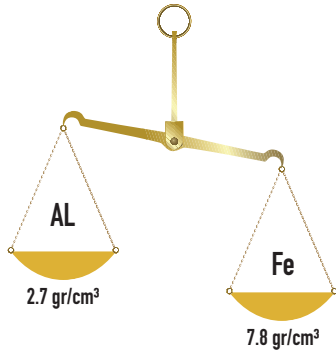


Installation with Cables



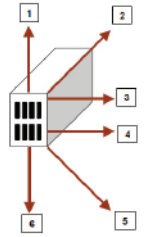
Installation with Cables

The housings are manufactured by aluminium to avoid corrosion for busbar systems.
Coloured busbars are manufactured due to request.



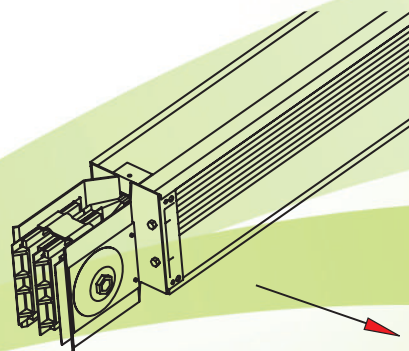
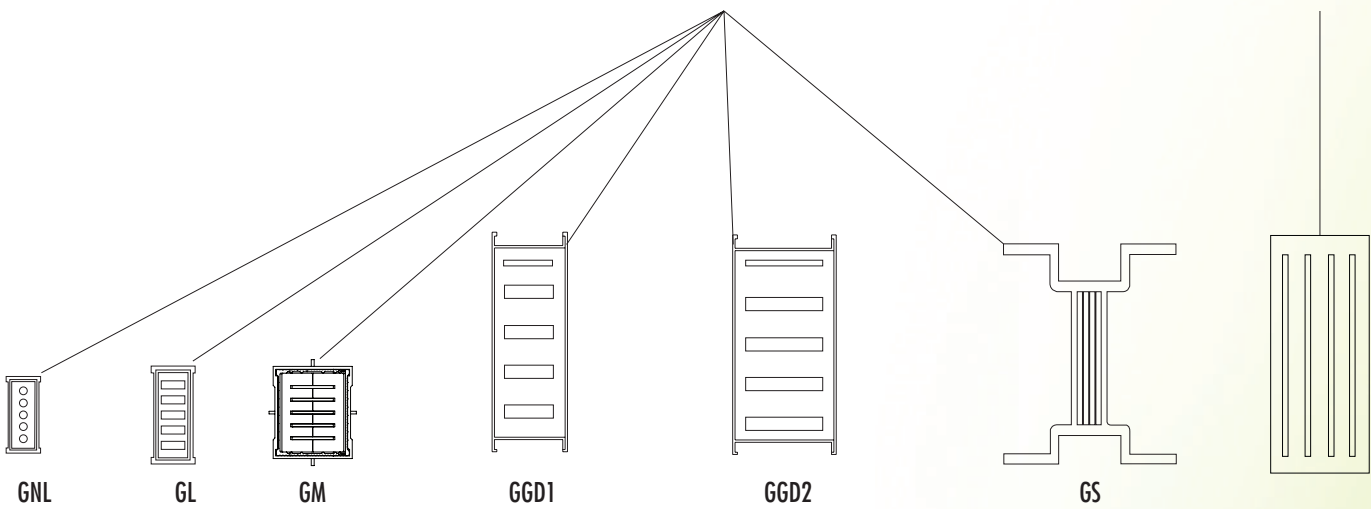
EMC (µT)

Distance (mm)	Direction					
	1	2	3	4	5	6
0	530	125	300	315	290	675
100	95	80	110	110	115	160
300	30	15	20	30	40	40
500	0	0	0	0	0	0
1000	0	0	0	0	0	0

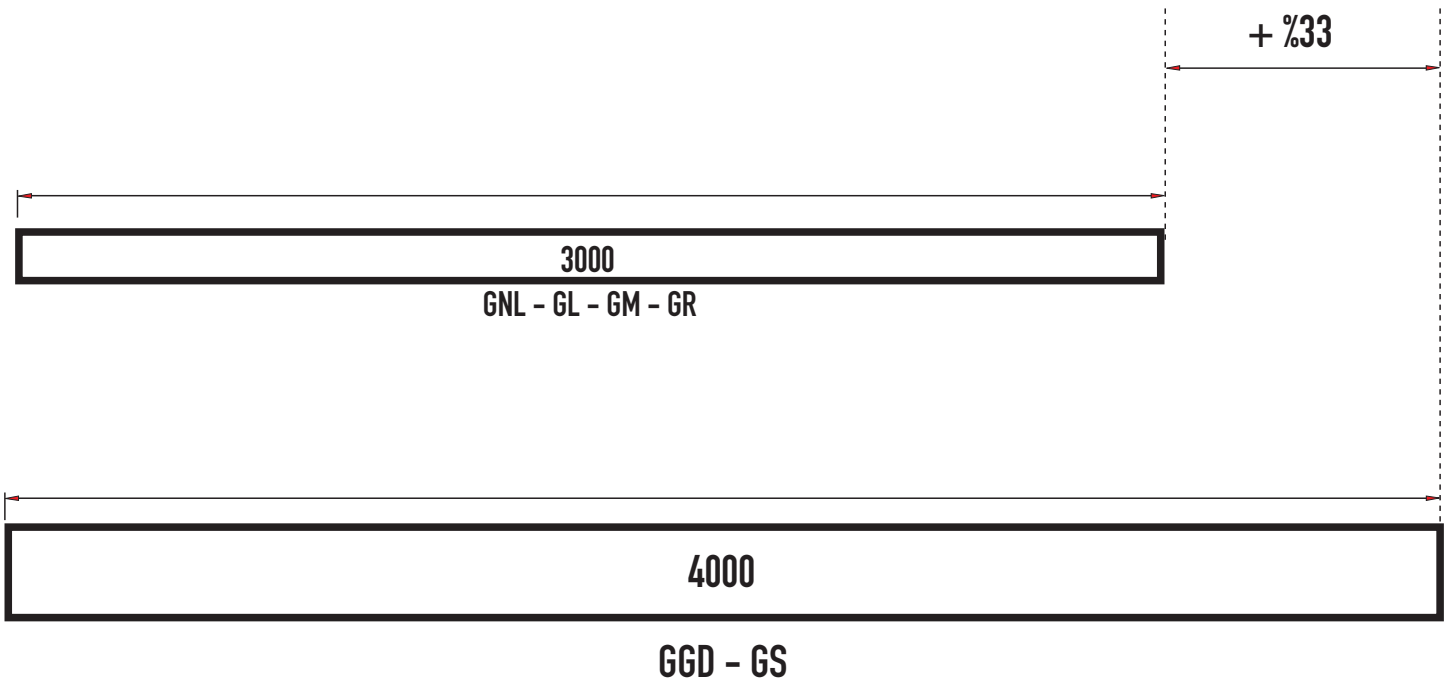


AL (ALOCAL-6063) IK08

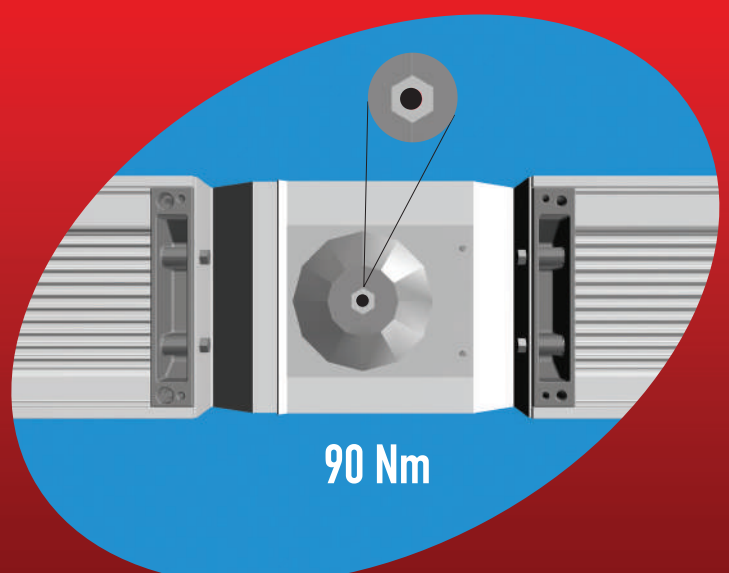
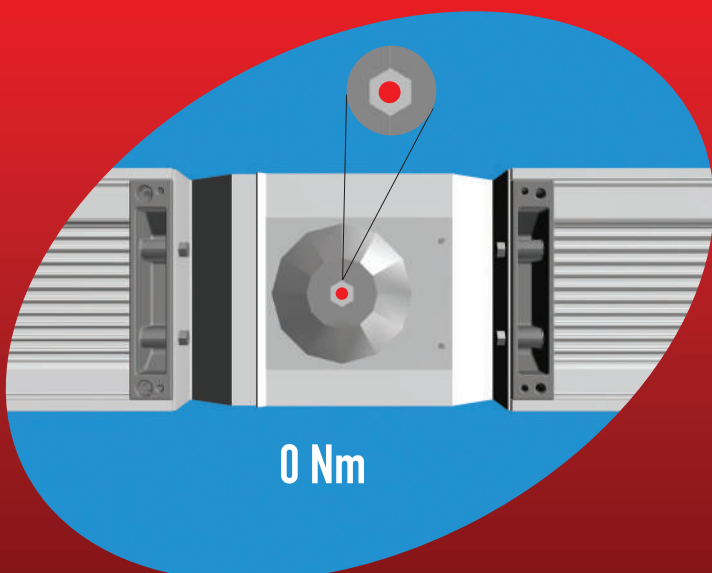
CAST RESIN IK10



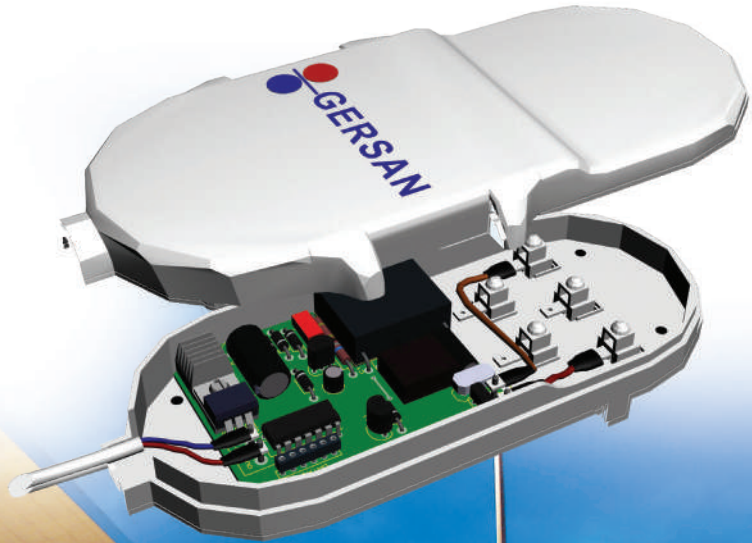
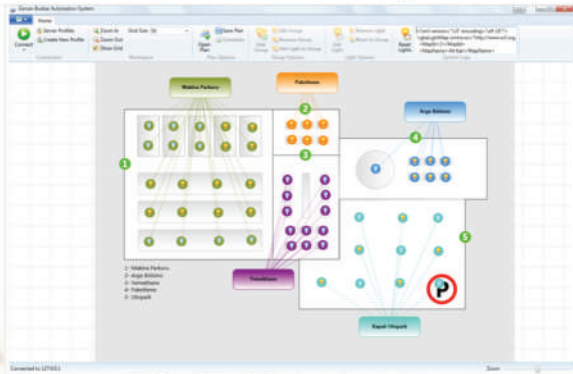
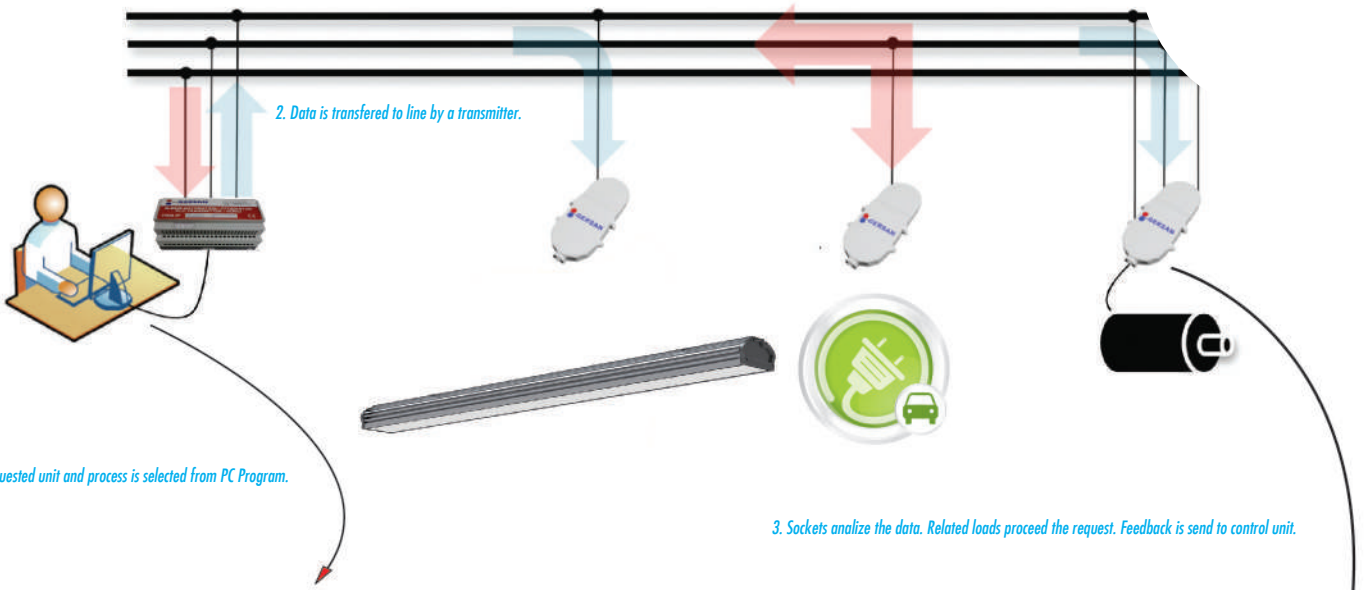
25-100 A Busbar systems are manufactured in 3 meter lengths. 160-1000A. 400-6300A busbar systems are manufactured in 4 meter lengths. These lengths avoid the risk tension problems because of the less need of joints.



There is an optional Smart Bolt application on joint . When the Smart Bolt is tightened with 90 Nm. red indicator is become black.



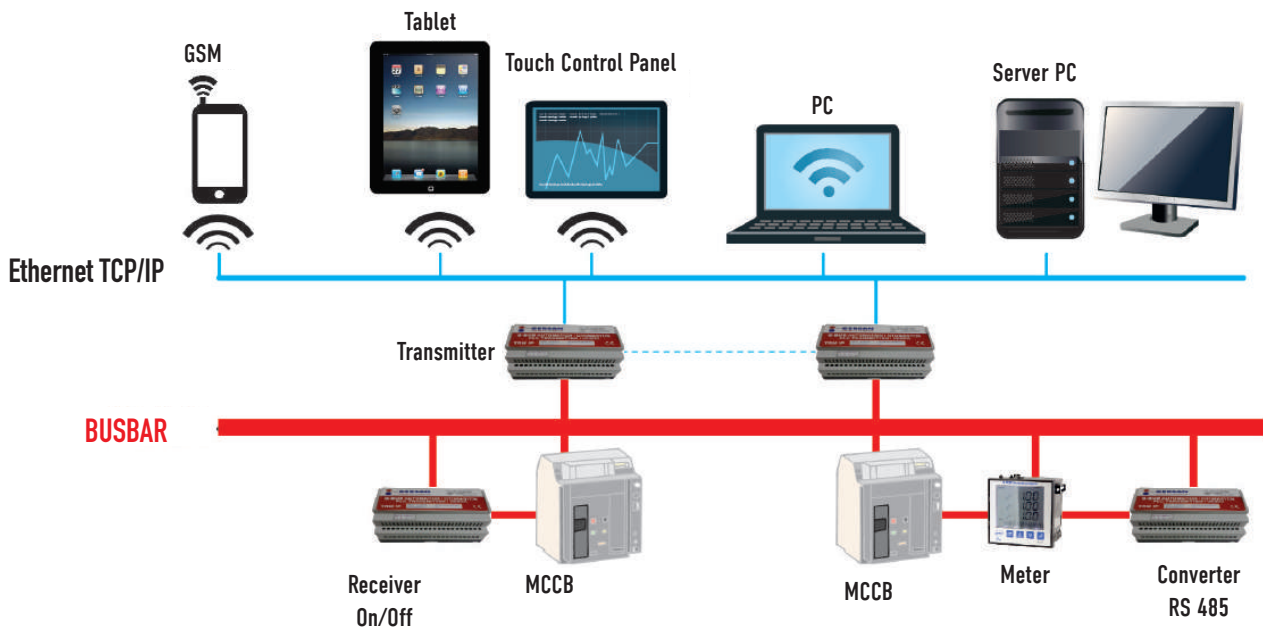
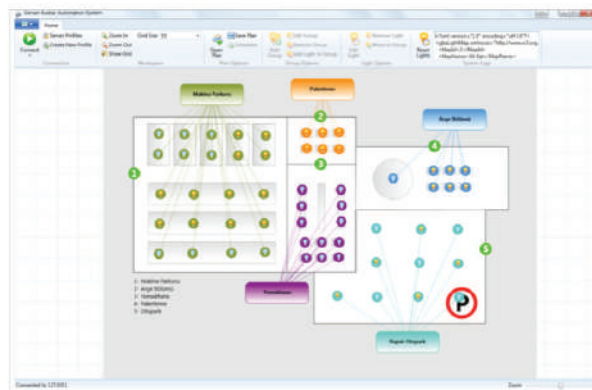
The product is patented by Gersan.



It is a very simple and patented solution to reach and manage all available information by two-way communication provided such as status and records of measurement devices on electricity distribution substation equipments, transformers, board, busbars, tap-off boxes of power lines.

Access to information and controls can be achieved on local network of internet with any PC that G-Bus software installed with G-Bus automation in your business;

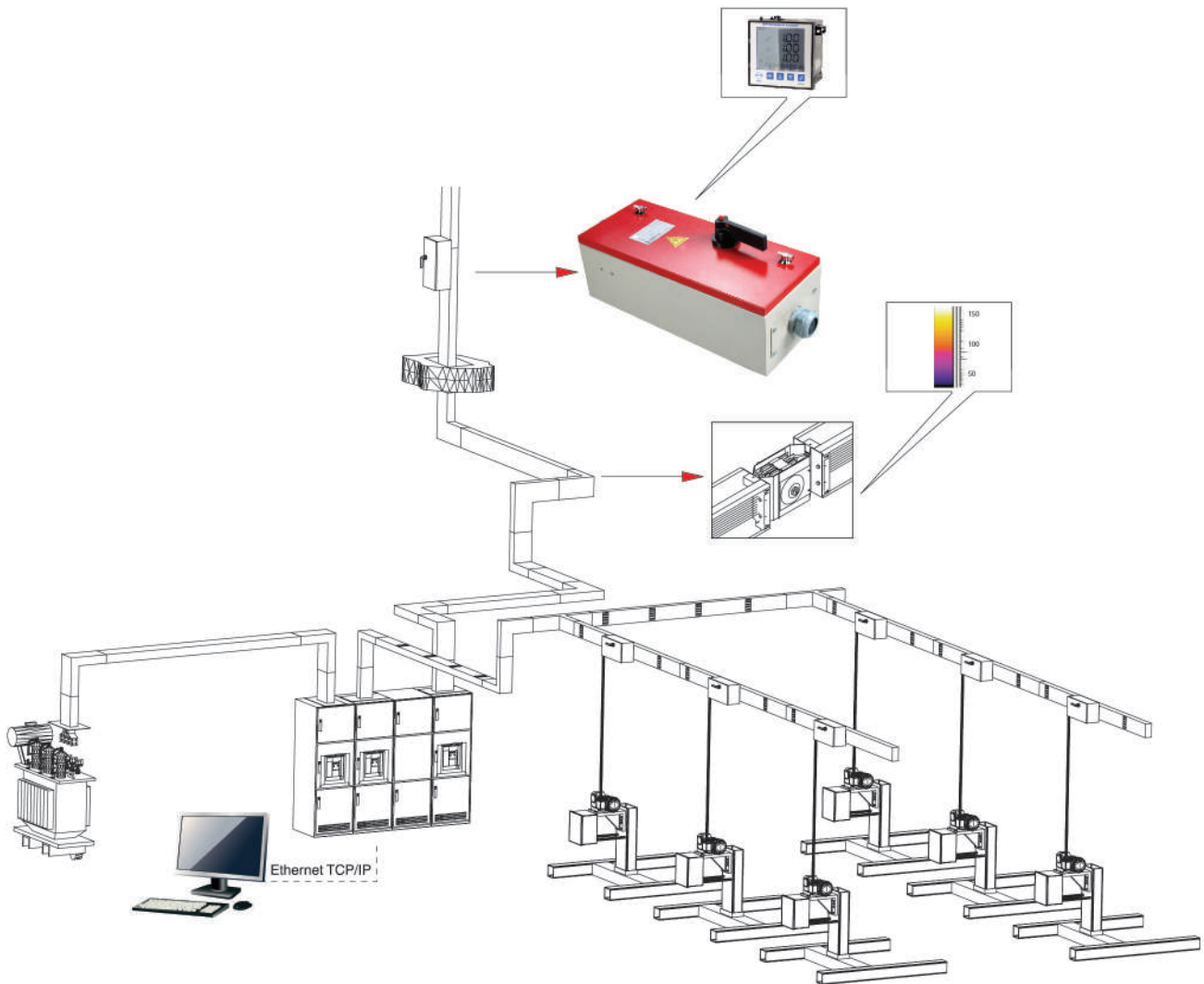
- * Operation costs reduced*
- * Equipment to be efficient in usage,*
- * Electric power distribution management.*



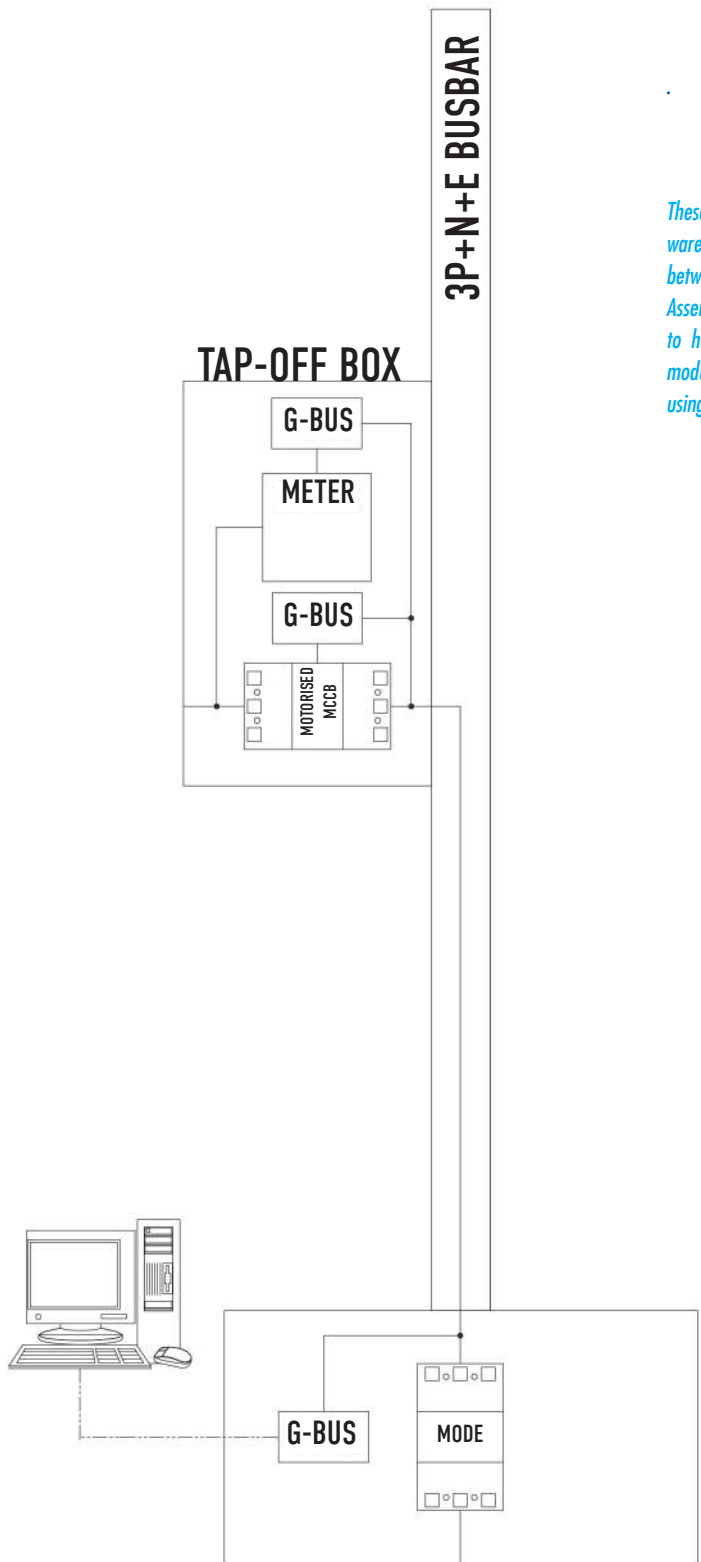
It is a very simple and patented solution to reach and manage all available information by two-way communication provided such as status and records of measurement devices on electricity distribution substation equipments, transformers, board, busbars, tap-off boxes of power lines.

- * By User-managed power line*
- Classifieds with place descriptions*
- Prevent Unnecessary use*
- Enables to control power consumption and Energy efficiency*

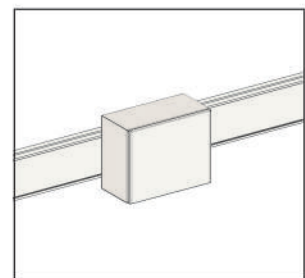
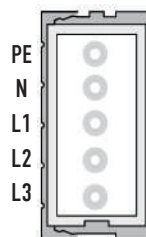
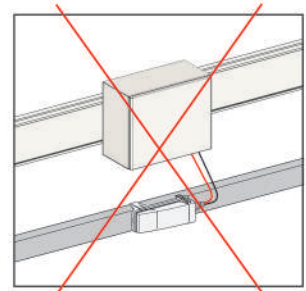
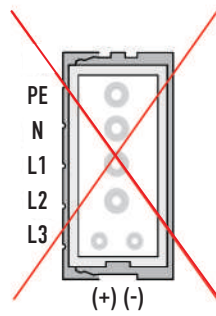
Measurement, control and monitoring by GERSAN Smart Bus-bar systems can be done with mounted units between the transmitter and receiver for 25-6300A busbar system GNL, GL, GGD and GS. Receiver units with standard DIN rail structure can be easily installed on tap-off boxes and capable of handling two-way information and commands of G-Bus signals like switch controls, the analyzer measurements, etc..



Receiver units can be found at the main board or the entire output boxes in case of single or multiple lines busbar.



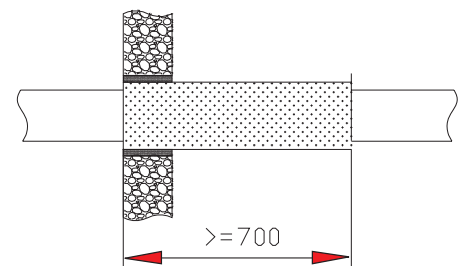
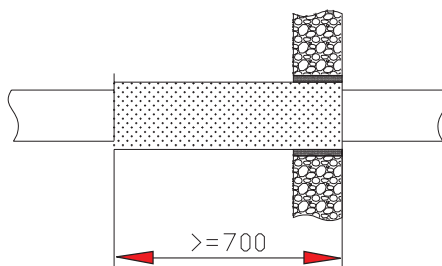
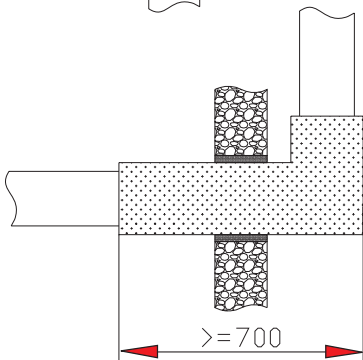
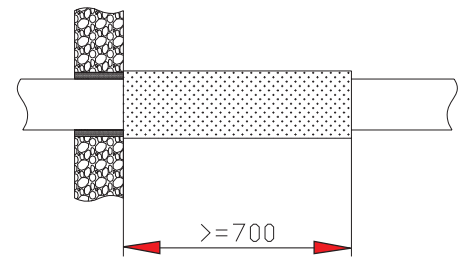
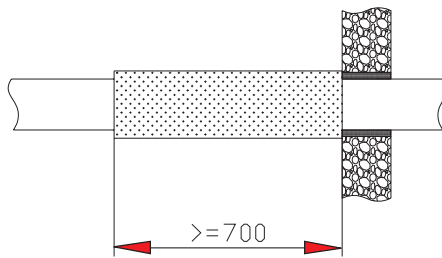
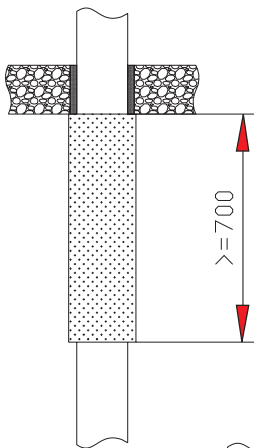
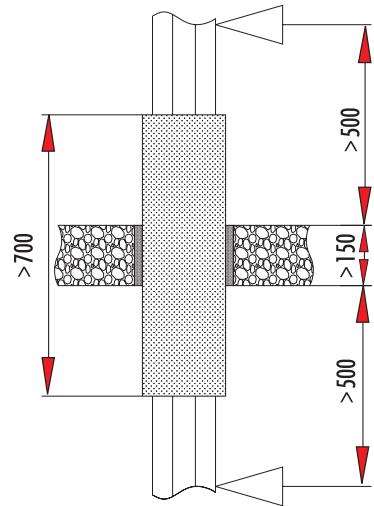
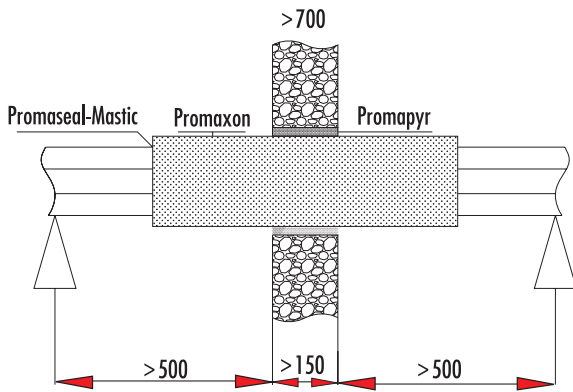
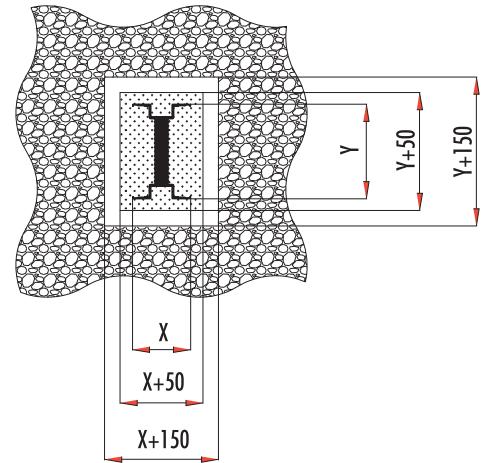
These units are communicating over power lines and contact with the G-Bus server software without any additional network line G-Bus Transmitter unit that enables the isolation between power line and network connection and allows you to connect server program. Assembly of power monitoring analyzer unit into the output box is quite difficult to read due to height. Therefore, we recommend the use of analysis systems with G-BUS receiver module. Thus, it is possible to transmit the datas of the output box to the server center by using of the power line datas with no additional parallel lines as in conventional system.



**G-BUS
POWER LINE COMMUNICATION**

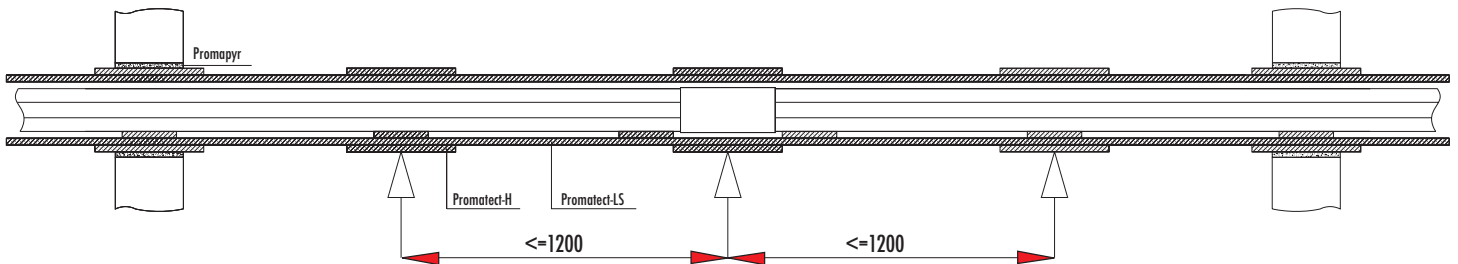
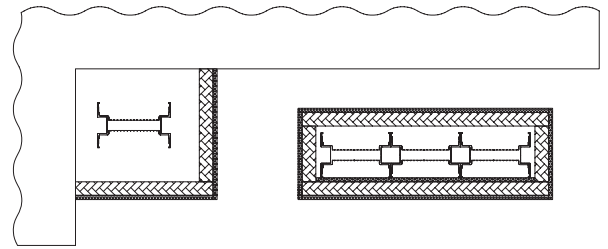
Fire Resistance Properties

DIN 4102-9 S90-S-120
EN 1366-3



Fire Resistance Properties

DIN 4102-12 E90



IEC 60695-2-10 & 2-13
960 °C - 30 sc.

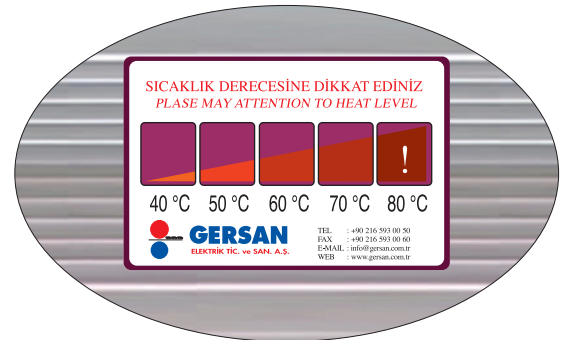
IEC 60332-3
800 °C - 40 min.

IEC 60331-21
750 °C - 8hrs.

Optional

Schedule of ratings for the ambient temperature on average 24 h

	1. $\leq 10^\circ\text{C}$	2. $\leq 20^\circ\text{C}$	3. $\leq 30^\circ\text{C}$	4. $\leq 40^\circ\text{C}$
I	/0.	/2.	/3.	/7.

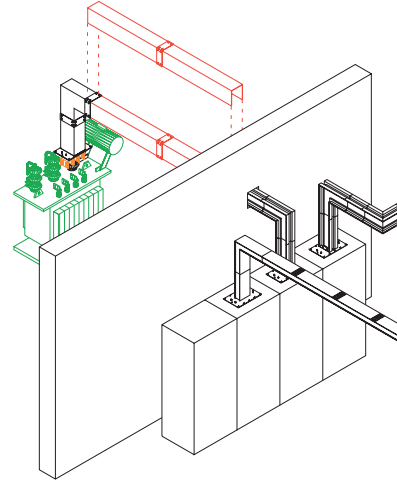


Insulation Classes VDE 0530

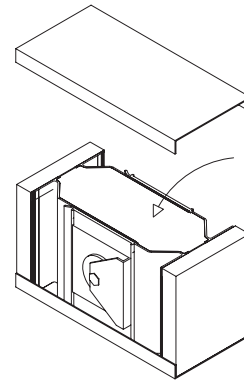
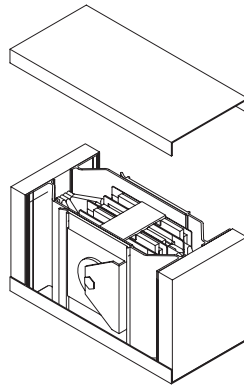
Class	Acceptable maximum temperature of rated load	Acceptable maximum average temperature	
		Rated Load	Short Circuit
C	/0. $\leq 10^\circ\text{C}$	53 $\leq 10^\circ\text{C}$	/13 $\leq 10^\circ\text{C}$
@	/1. $\leq 20^\circ\text{C}$	6. $\leq 20^\circ\text{C}$	/23 $\leq 20^\circ\text{C}$
D	/33 $\leq 30^\circ\text{C}$	/.. $\leq 30^\circ\text{C}$	/5. $\leq 30^\circ\text{C}$
F	/6. $\leq 60^\circ\text{C}$	/13 $\leq 60^\circ\text{C}$	0.. $\leq 60^\circ\text{C}$

IP Protection Classes IEC/EN 60529

Canopy on enclosure is a must of all IP applications for outdoor installations.



P Protection Classes IEC/EN 60529		
First Digit	Definition	Description
0	No protection	There is no protection against contact and foreign bodies
1	Protection against particulate, 50 mm and larger	There is a protection against contact with large parts of the body. There is a protection against solid objects, diameter greater than or equal to 50 mm.
2	Protection against particulate, 12.5 mm and larger	There is a protection against contact with a finger. There is a protection against objects, greater than or equal to 12.5 mm.
3	Protection against particulate, 2.5 mm and larger	There is a protection against contact with tools and wires diameter greater than or equal to 2.5 mm. There is a protection against small foreign bodies, diameter greater than or equal to 2.5 mm.
4	Protection against particulate, 1.0 mm and larger	There is a protection against contact with tools and wires, diameter greater than or equal to 1 mm. There is a protection against grain shaped objects, diameter greater than or equal to 1 mm.
5	Protected against dust	There is a complete protection against contact. There is a protection against the amount of dust that would interfere with the operation of the equipment.
6	Dust proof	There is a complete protection against contact. There is a protection against dust



IP Protection Classes IEC/EN 60529

First Digit	Definition	Description
0	No protection	There is no protection against water.
1	Protected against dripping water	Vertically dripping water must not have any damaging effect
2	Protected against dripping water with 15°	Vertically dripping water must not have any damaging effect with the enclosure inclined to an angle of up to 15° from the vertical in either direction.
3	Protected against spraying water	Water sprayed at an angle of up to 60° from the vertical at either side of the enclosure must not have any damaging effect.
4	Protected against splash water	Water splashed at the enclosure from any direction must not have any damaging effect.
5	Protected against water jet streams	Water jet streams which make contact with the enclosure from any direction must not have any damaging effect.
6	Protected against high power water jet streams	High power water jet streams which make contact with the enclosure from any direction must not have any damaging effect.
7	Protected against intermittent submersion in water	Water may not enter the enclosure to such an extent that damaging effects become apparent, when the enclosure is intermittently submerged in water under standardized pressure and time conditions.
8	Protected against continuous submersion in water	Water may not enter the enclosure to such an extent that damaging effects become apparent, when the enclosure is continuously submerged in water. Submersion conditions must be agreed upon by the manufacturer and the user.
9	Protected against highly pressurised water and steam jet	Highly pressurised water which is directed at the enclosure from any direction must not have any damaging effect.



BUSBAR TRUNKING SYSTEMS



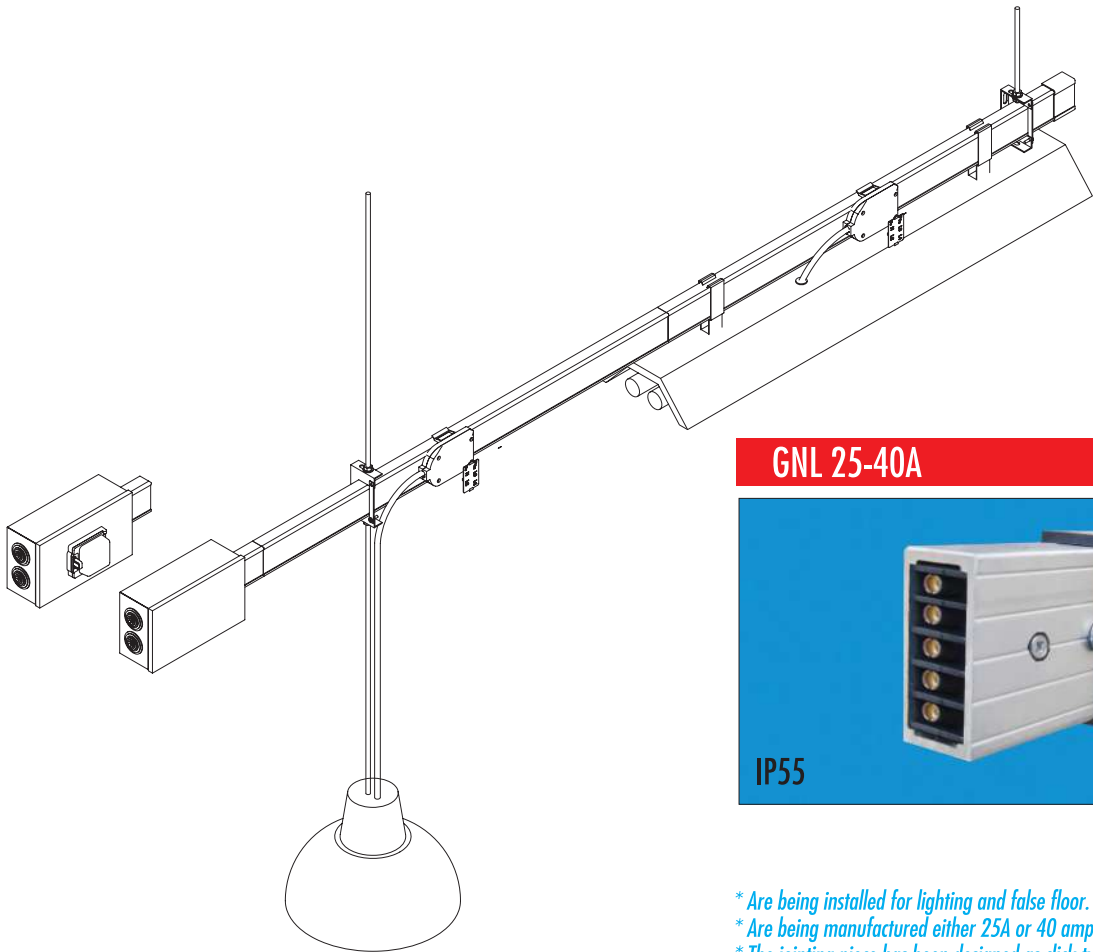
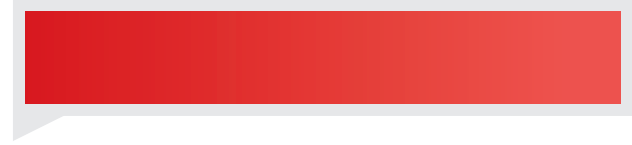
ISO 9001 / ISO 14001
ISO 45001



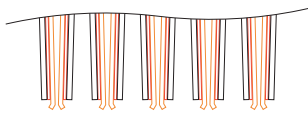
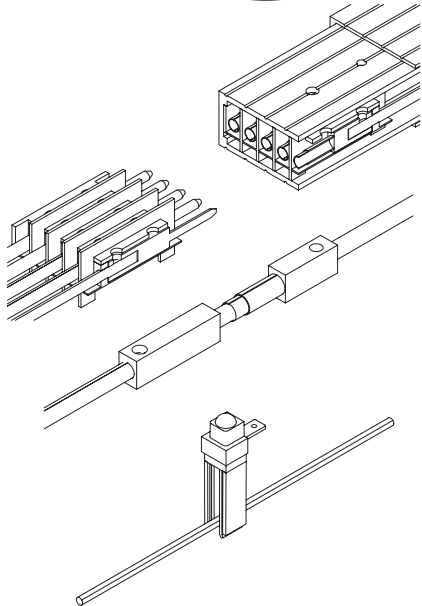
GNL



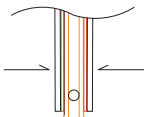
25-40A



GNL 25-40A



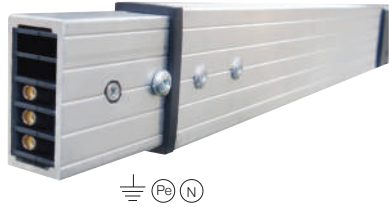
○ ○ ○ ○ ○
PEc N L3 L2 L1



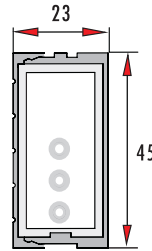
- * Are being installed for lighting and false floor.
- * Are being manufactured either 25A or 40 amp.
- * The jointing piece has been designed as click type.
- * The housing is aluminium.
- * Conductors are offered between 2 to 5 according to your choice
- * They have all certifications related to busbar and CE certificate.

GNL Serie 25-40 A Busbar systems are offered for lighting and feeding systems floor-boxes. The connection is obtained by silver coated connectors. The plug outs may offer 16A current with silver coated contacts.

Standard Length Element P+N+PEc



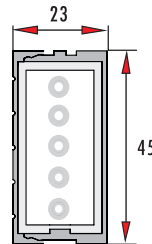
Order code	Stock code	A	mm	Weight (Kg/unit)
GNL 2533	970400255513030	25	3000	0.820
GNL 4033	970500405513030	40	3000	0.920



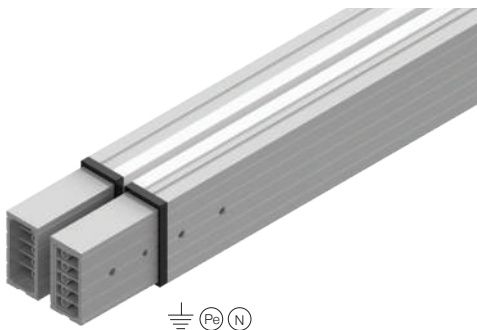
Standard Length Element 3P+N+E+(AL Housing)



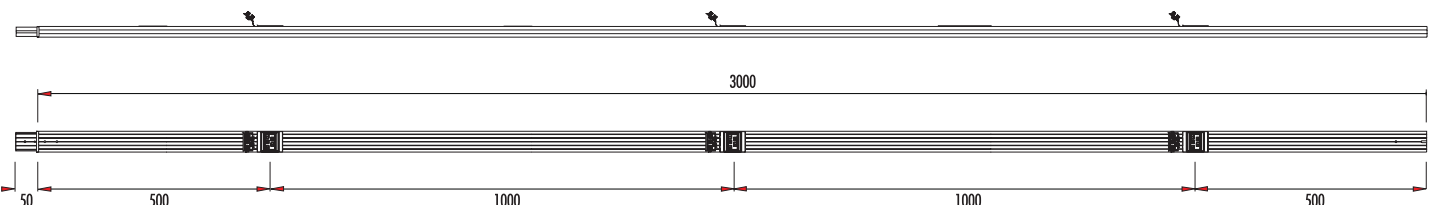
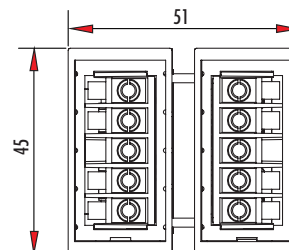
Order code	Stock code	A	mm	Weight (Kg/unit)
GNL 2535	970800255513050	25	3000	0.940
GNL 4035	970900405513050	40	3000	1.020



Standard Length Element (DALI)



Order code	Stock code	A	mm	Weight (Kg/unit)
GNL 25355	970825255513050	25+25	3000	1.988
GNL 40355	970940405513050	40+40	3000	2.148

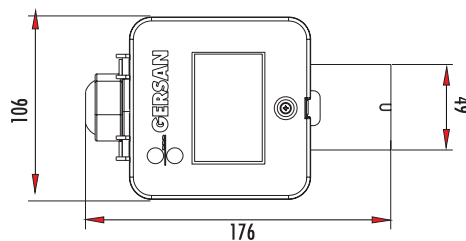
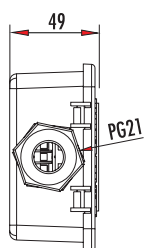




Feed unit (Left)



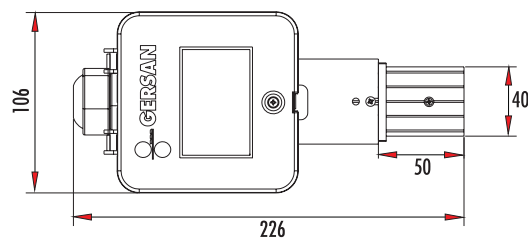
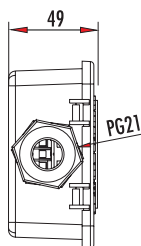
Order code	Stock code	A	Weight (Kg/unit)
GNL EF41-Pec	971000405510050	25-40	0.260
GNL EF41-CE	971000405511050	25-40	0.260
GNL EF41-ACK	971000405512050	25-40	0.260



Feed unit (Right)



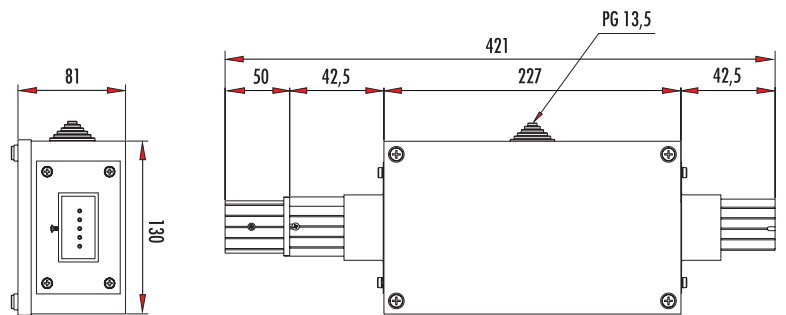
Order code	Stock code	A	Weight (Kg/unit)
GNL EF42-Pec	971100405510050	25-40	0.380
GNL EF42-CE	971100405511050	25-40	0.380
GNL EF42-ACK	971100405512050	25-40	0.380



Centre Feed Unit 3P+N+1/2 PE



Order code	Stock code	A	Weight (Kg/unit)
GNL EF43-Pec	971200405510050	25-40	2.100
GNL EF43-CE	971200405511050	25-40	2.100
GNL EF43-ACK	971200405512050	25-40	2.100

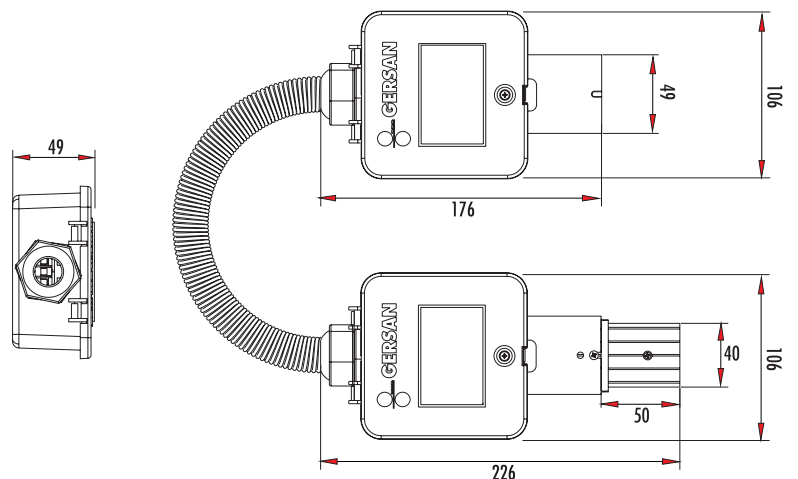


Flexible Joint for Elbow

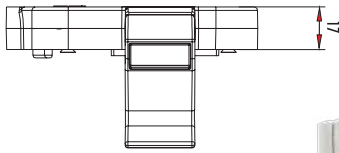


Order code	Stock code	A	Weight (Kg/unit)
GNL 40FX-Pec	972300405511000	25-40	1.100
GNL 40FX-CE	972300405521000	25-40	1.100
GNL 40FX-ACK	972300405531000	25-40	1.100

L=1000 mm



Lighting Fixture Jack



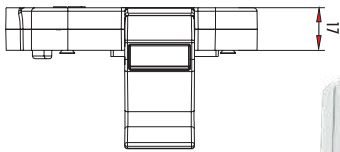
Order code	Stock code	A	Phase	Weight (Kg/unit)
GNL 10L1-Pec	971500165521000	10	L1-N-Pec	0.159
GNL 10L2-Pec	971600165521000	10	L2-N-Pec	0.159
GNL 10L3-Pec	971700165521000	10	L3-N-Pec	0.159
GNL 10L4-1-Pec	971800165521000	10	L1-L2-L3-N-Pec	0.240
GNL 10L1-CE	971500165531000	10	L1-N-CE	0.159
GNL 10L2-CE	971600165531000	10	L2-N-CE	0.159
GNL 10L3-CE	971700165531000	10	L3-N-CE	0.159
GNL 10L4-1-CE	971800165531000	10	L1-L2-L3-N-CE	0.240
GNL 10L1-ACK	971500165541000	10	L1-N-ACK-Pe (gövde/housing)	0.240
GNL 10L2-ACK	971600165541000	10	L2-N-ACK-Pe (gövde/housing)	0.240
GNL 10L3-ACK	971700165541000	10	L2-N-ACK-Pe (gövde/housing)	0.240
GNL 10L1	971500165511000	10	L1-N-Pe (gövde/housing)	0.159
GNL 10L2	971600165511000	10	L2-N-Pe (gövde/housing)	0.159
GNL 10L3	971700165511000	10	L3-N-Pe (gövde/housing)	0.159
GNL 10L4-1	971800165511000	10	L1-L2-L3-N-Pe (gövde/housing)	0.240

Standard cable length: 1000 mm

On request the length of the cable is available with 2000 mm or 3000 mm or 4000 mm.

Clean Earth is CE coded products.

Lighting Fixture Jack With Glass Fuse



Order code	Stock code	A	Phase	Weight (Kg/unit)
GNL 10F1-Pec	971900165511000	10	L1-N-Pe	0,167
GNL 10F2-Pec	972000165511000	10	L2-N-Pe	0,167
GNL 10F3-Pec	972100165511000	10	L3-N-Pe	0,167
GNL 10F4-1-Pec	972200165511000	10	L1-L2-L3-N-Pe	0,248
GNL 10F1-CE	971900165531000	10	L1-N-CE	0,167
GNL 10F2-CE	972000165531000	10	L2-N-CE	0,167
GNL 10F3-CE	972100165531000	10	L3-N-CE	0,167
GNL 10F4-1-CE	972200165531000	10	L1-L2-L3-N-CE	0,248
GNL 10F1-ACK	971900165541000	10	L1-N-ACK-Pe(gövde/housing)	0,248
GNL 10F2-ACK	972000165541000	10	L2-N-ACK-Pe(gövde/housing)	0,248
GNL 10F3-ACK	972100165541000	10	L3-N-ACK-Pe(gövde/housing)	0,248
GNL 10F1	971900165521000	10	L1-N-Pe(gövde/housing)	0,167
GNL 10F2	972000165521000	10	L2-N-Pe(gövde/housing)	0,167
GNL 10F3	972100165521000	10	L3-N-Pe(gövde/housing)	0,167
GNL 10F4-1	972200165521000	10	L1-L2-L3-N-Pe(gövde/housing)	0,248

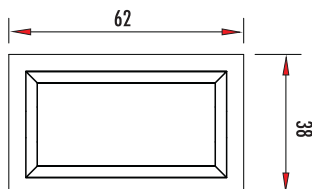
Standard cable length: 1000 mm

On request the length of the cable is available with 2000 mm or 3000 mm or 4000 mm.

Clean Earth is CE coded products.

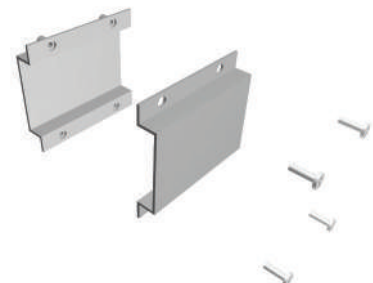
End Cap

Order code	Stock code	Weight (Kg/unit)
GNL EC40 (GNL EF41)	801300405550000	0.030
GNL EC41 (GNL EF42)	801300405550001	0.056

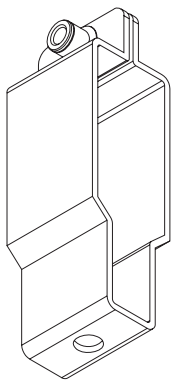


IP55 Joint Cover

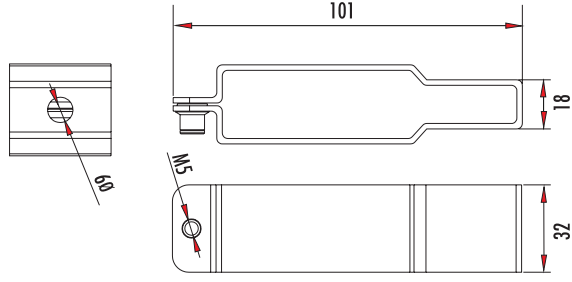
Order code	Stock code	Weight (Kg/unit)
GNL ALC	80040040551AL40	0.144



Lighting fixtures fixing hanger



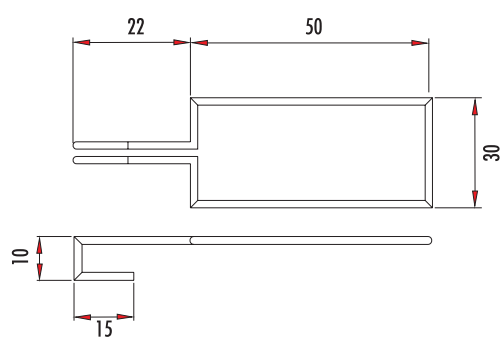
Order code	Stock code	Weight (Kg/unit)
GNL SSU1	80140000040000	0.038



Lighting fixtures fixing hanger



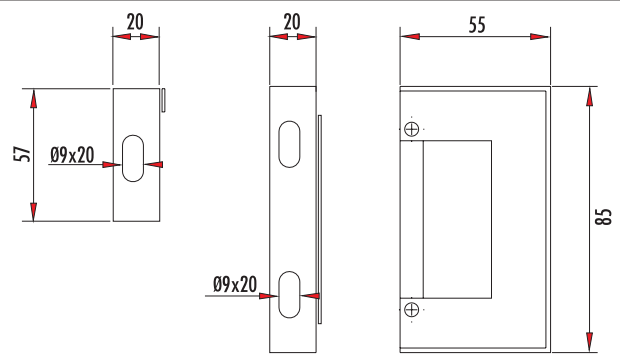
Order code	Stock code	Weight (Kg/unit)
GNL SSU2	80140000040002	0.005

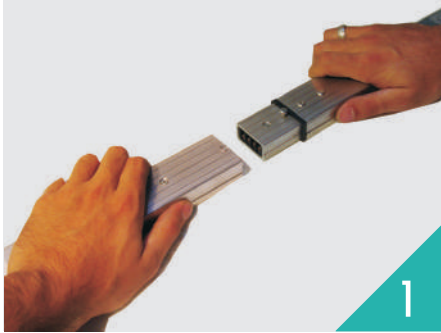


Busbar fixing hanger



Order code	Stock code	Weight (Kg/unit)
GNL SSU3	80140000040003	0.080





1

1) The surfaces of both elements that will be added each other are brought side by side.

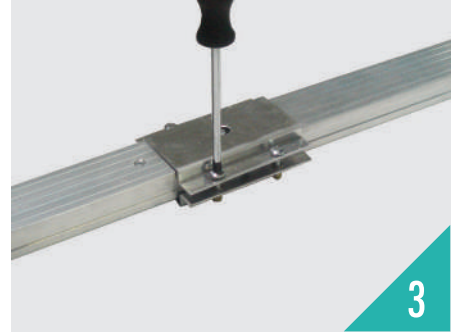
2) Two elements are added each other by fixing screw on top of the hole (slot).



2

3) Screw on top of the hole (slot). Screw is screwed

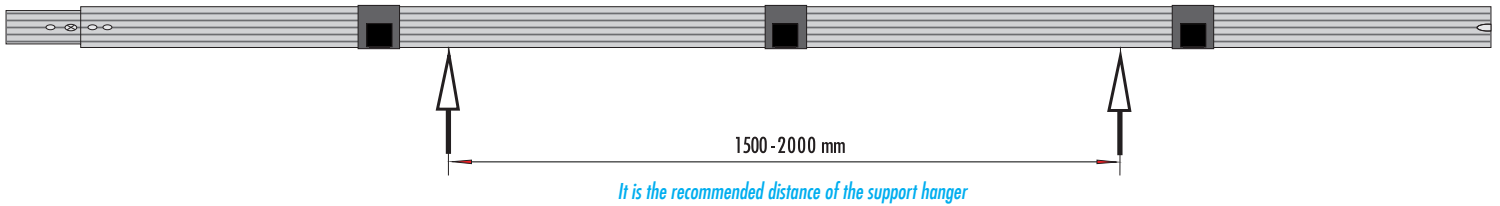
4) Joint set have elements like in the picture.



3

5) Covering process completes with using 4 nos. M5x15 screws.

6) Joint covering process supply IP55 and mechanical protection.



Technical Details

			25 A	40 A
Insulation Voltage	U_i	V	690	
Operational Voltage	U_E	V	690	
Frequency	f	Hz	50/60	
Degree of Protection	IP		55	
Rated Current	I_N	A	25	40
Rated Short circuit time current (1 s)	$I_{cw} (I_s)$	kA rms	2.5	2.5
Peak current	I_{pk}	kA	3.75	3.75
Phase resistance	R_{20}	$m\Omega/m$	7.2	4.5
Phase resistance	R_l	$m\Omega/m$	9.6	6.03
Phase reactance	X_l	$m\Omega/m$	12	7.5
Phase impedance	Z_l	$m\Omega/m$	15.3	9.6
Cross section phases	S	mm ²	2.5	4
Cross section neutral	S_N	mm ²	2.5	4
Cross section of protective conductor (Aluminium)	S_{PE}	mm ²	153.60	

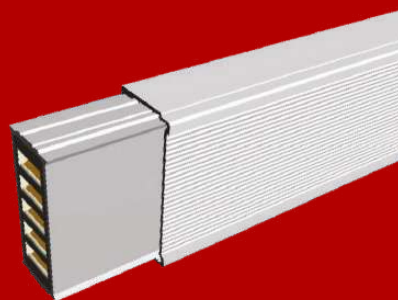
BUSBAR TRUNKING SYSTEMS



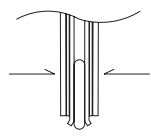
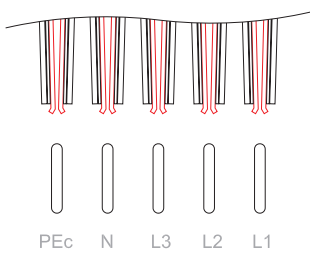
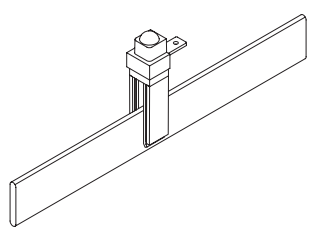
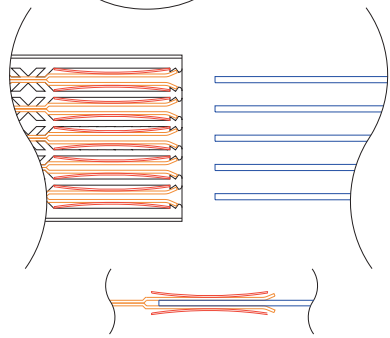
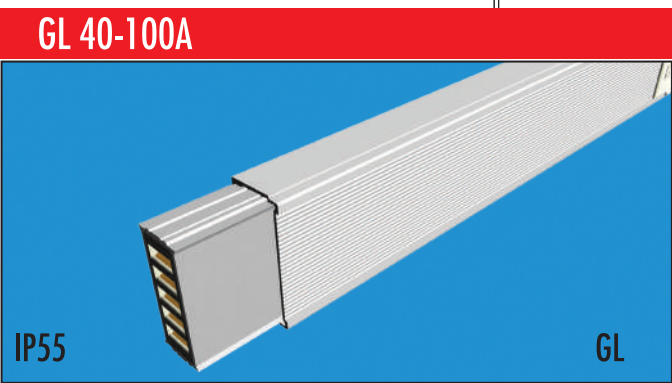
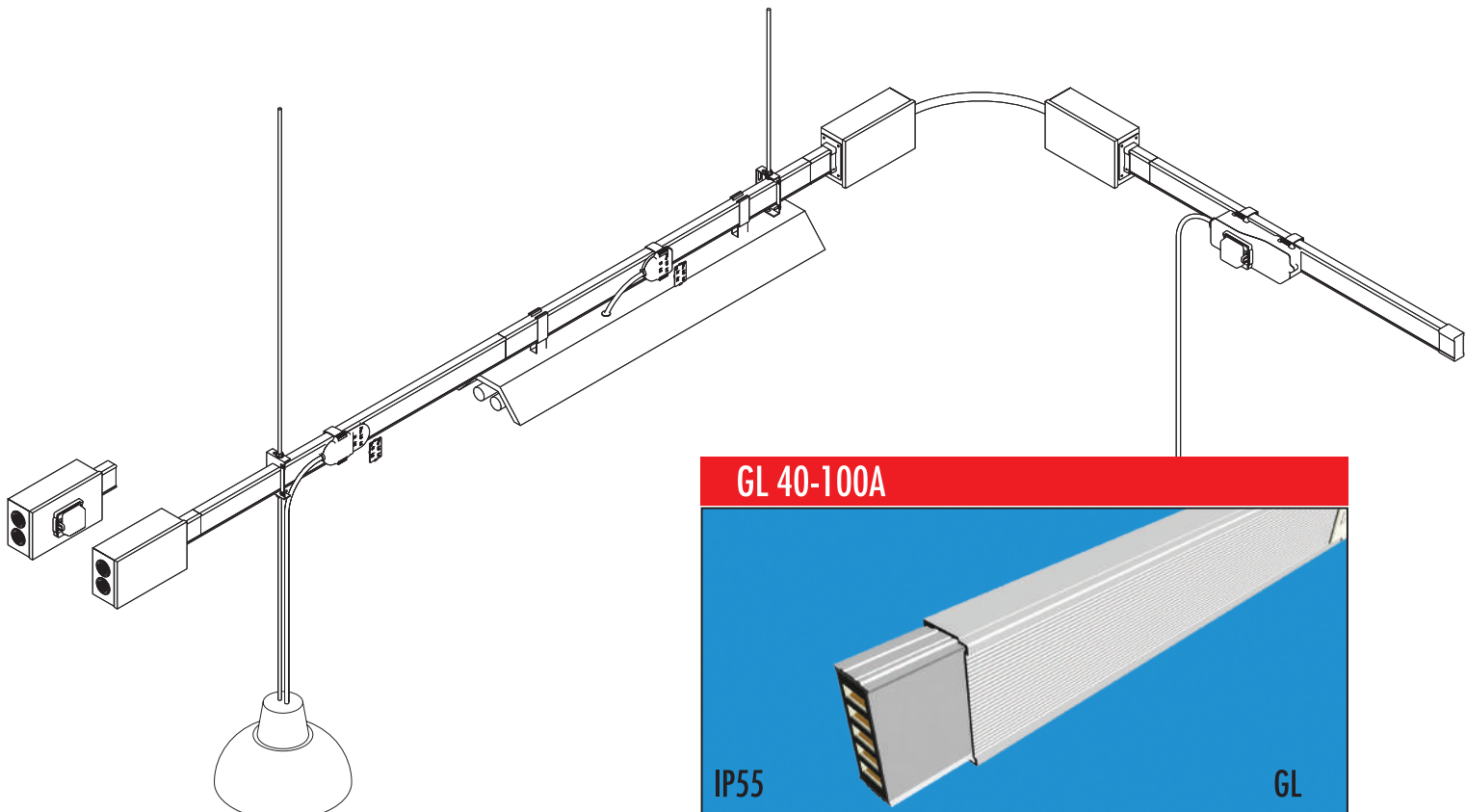
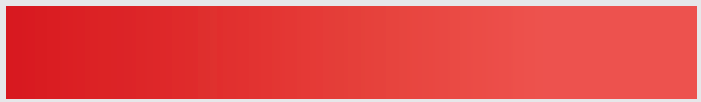
ISO 9001 / ISO 14001
ISO 45001



GL



40-100A



- * This type is for low power distribution.
- * Aluminium housing supplies decorative look.
- * Are manufactured with 5 conductors.
- * Supplies Pec (Clean Earth) conductor.
- * Aluminium housing can be used as extra Pe conductor.

- * Offers a wide range of accessories.
- * Are manufactured with IP55 protection degree.

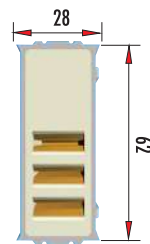
- * The conductors may be aluminium or copper depending on the choice.
- * Hard fixing bar joint system supplies comfort during installation.

* Owns all international certifications and CE certification about busbar systems.

Standard Length Element P+N+E+(AL Housing)



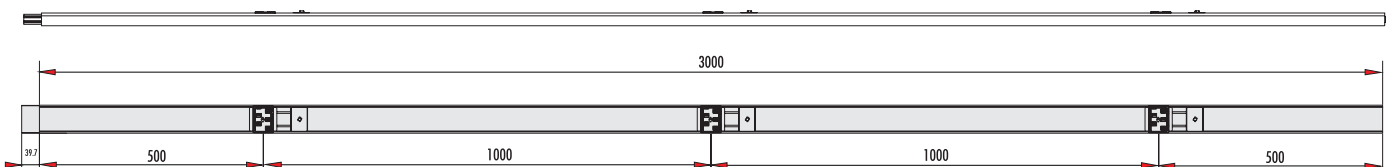
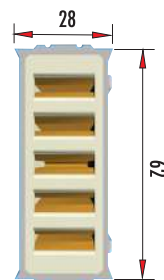
Order code	Stock code	A	mm	Weight (Kg/m)
GLA 4033	950600405513030	40	3000	1.140
GLA 6333	950600635513030	63	3000	1.140
GLC 6333	960600635513030	63	3000	1.650
GLC 10033	960601005513030	100	3000	1.650



Standard Length Element 3P+N+E+(AL Housing)



Order code	Stock code	A	mm	Weight (Kg/m)
GLA 4035	950100405513050	40	3000	1.310
GLA 6335	950100635513050	63	3000	1.310
GLC 6335	960100635513050	63	3000	2.160
GLC 10035	960101005513050	100	3000	2.160

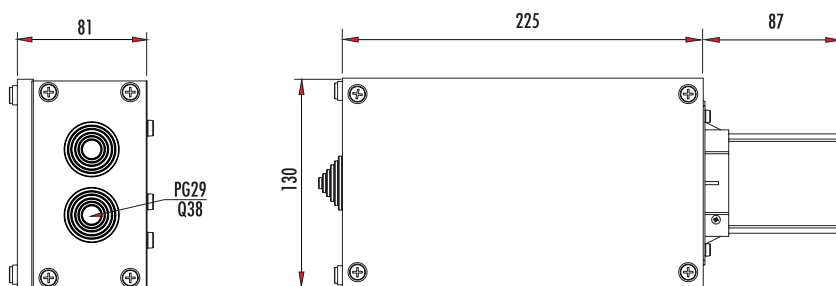


Manufacture with aluminium bar (black lines) or copper bar (red lines).

Feed unit (Left)



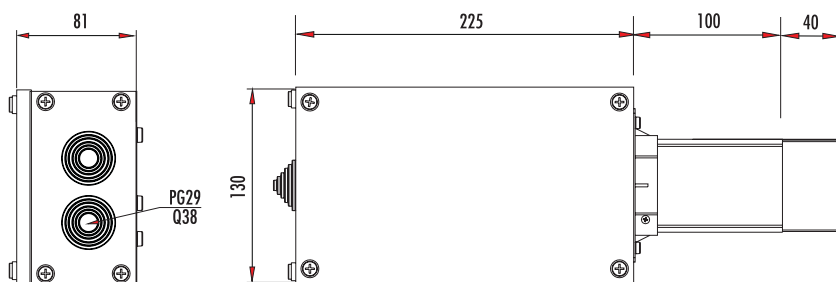
Order code	Stock code	A	Weight (Kg/unit)
GLA EF41-Pec	951001005510050	40-63	1.600
GLA EF41-CE	951001005511050	40-63	1.600
GLA EF41-ACK	951001005512050	40-63	1.600
GLC EF41-Pec	961001605510050	63-100	1.880
GLC EF41-CE	961001605511050	63-100	1.880
GLC EF41-ACK	961001605512050	63-100	1.880



Feed unit (Right)



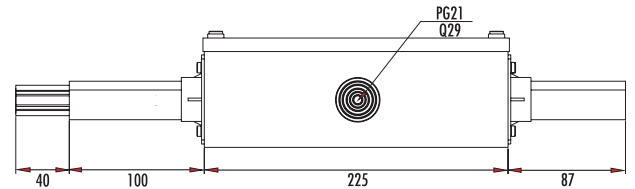
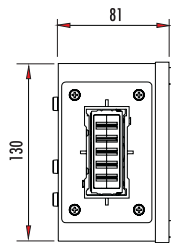
Order code	Stock code	A	Weight (Kg/unit)
GLA EF42-Pec	951101005510050	40-63	1.830
GLA EF42-CE	951101005511050	40-63	1.830
GLA EF42-ACK	951101005512050	40-63	1.830
GLC EF42-Pec	961101605510050	63-100	2.100
GLC EF42-CE	961101605511050	63-100	2.100
GLC EF42-ACK	961101605512050	63-100	2.100



Centre Feed Unit 3P+N+1/2 PE



Order code	Stock code	A	Weight (Kg/unit)
GLA EF43-Pec	951201005510050	40-63	2.110
GLA EF43-CE	951201005511050	40-63	2.110
GLA EF43-ACK	951201005512050	40-63	2.110
GLC EF43-Pec	961201605510050	63-100	2.360
GLC EF43-CE	961201605511050	63-100	2.360
GLC EF43-ACK	961201605512050	63-100	2.360

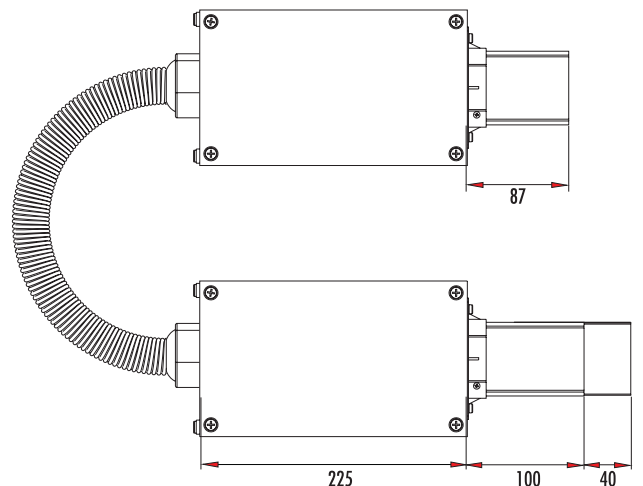
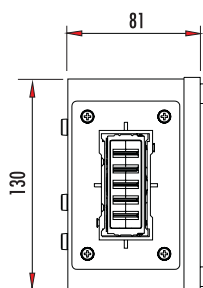


Flexible Joint for Elbow

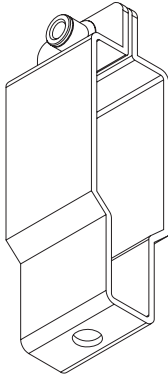


L=1000 mm

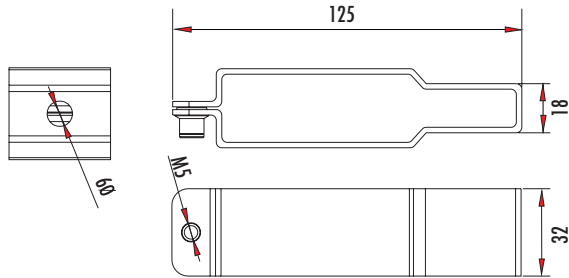
Order code	Stock code	A	Weight (Kg/unit)
GLA 63FX-Pec	952301005511000	40-63	4.300
GLA 63FX-CE	952301005521000	40-63	4.300
GLA 63FX-ACK	952301005531000	40-63	4.300
GLC 160FX-Pec	962301605511000	63-100	6.200
GLC 160FX-CE	962301605521000	63-100	6.200
GLC 160FX-ACK	962301605531000	63-100	6.200



Lighting fixtures fixing hanger



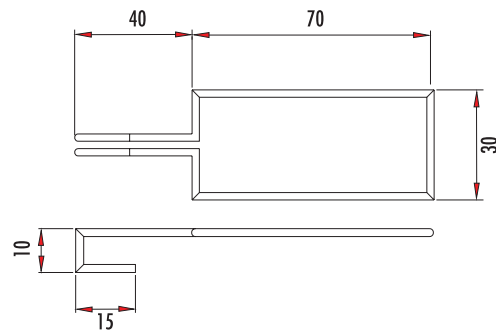
Order code	Stock code	Weight (Kg/unit)
GL SSU1	95140000040000	0.045



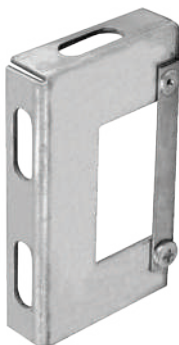
Lighting fixtures fixing hanger



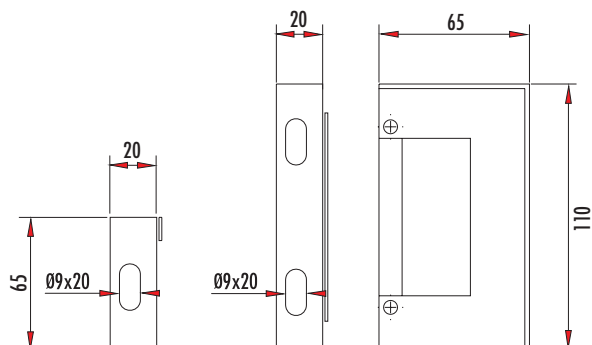
Order code	Stock code	Weight (Kg/unit)
GL SSU2	95140000040002	0.007



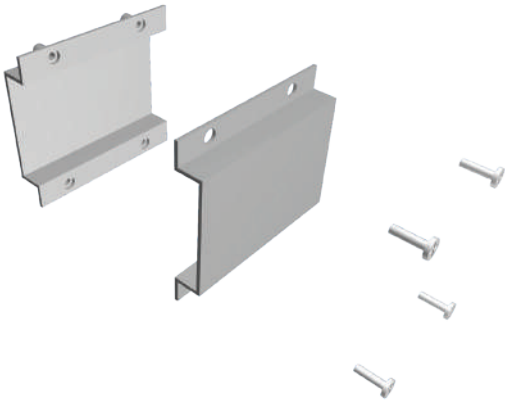
Busbar fixing hanger



Order code	Stock code	Weight (Kg/unit)
GL SSU3	95140000040003	0.110



IP55 Joint Cover

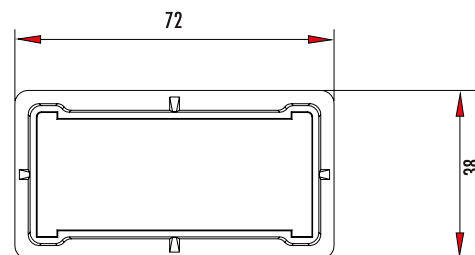


Order code	Stock code	Weight (Kg/unit)
GL ALC	95040160551AL50	0.160

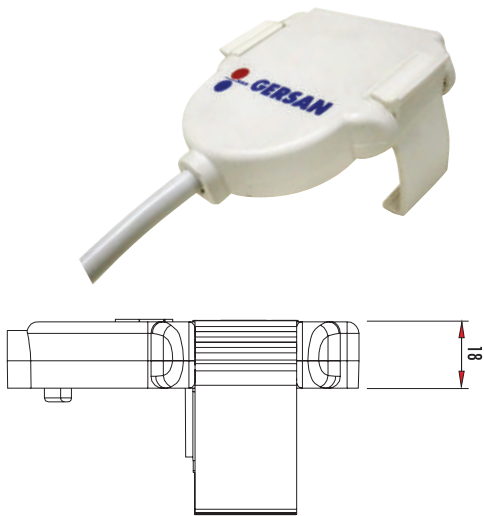
End Cap



Order code	Stock code	Weight (Kg/unit)
GL EC40 (GL EF41)	951301605550000	0.023
GL EC40 (GL EF42)	951301605500001	0.060



Lighting Fixture Jack



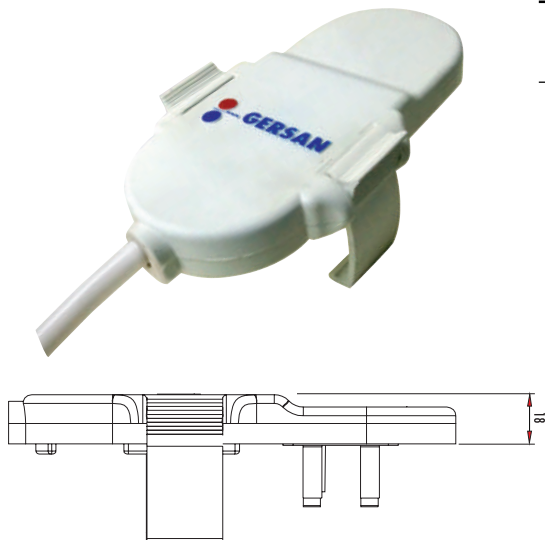
Order code	Stock code	A	Phase	Weight (Kg/unit)
GL 16L1-Pec	951500165511000	16	L1-N-Pec	0.200
GL 16L2-Pec	951600165511000	16	L2-N-Pec	0.200
GL 16L3-Pec	951700165511000	16	L3-N-Pec	0.200
GL 16L4-1-Pec	951800165511000	16	L1-L2-L3-N-Pec	0.276
GL 16L1-CE	951500165531000	16	L1-N-CE	0.200
GL 16L2-CE	951600165531000	16	L2-N-CE	0.200
GL 16L3-CE	951700165531000	16	L3-N-CN	0.200
GL 16L4-1-CE	951800165531000	16	L1-L2-L3-N-CE	0.276
GL 16L1-ACK	951500165541000	16	L1-N-ACK-Pe (housing)	0.276
GL 16L2-ACK	951600165541000	16	L2-N-ACK-Pe (housing)	0.276
GL 16L3-ACK	951700165541000	16	L2-N-ACK-Pe (gövde/housing)	0.276
GL 16L1	951500165521000	16	L1-N-Pe (gövde/housing) L2-N-	0.200
GL 16L2	951600165521000	16	Pe (gövde/housing) L3-N-Pe	0.200
GL 16L3	951700165521000	16	(gövde/housing) L1-L2-L3-N-	0.200
GL 16L4-1	951800165521000	16	Pe (gövde/housing)	0.276

Standard cable length: 1000 mm

On request the length of the cable is available with 2000 mm or 3000 mm or 4000 mm.

Clean Earth is CE coded products.

Lighting Fixture Jack With Glass Fuse



Order code	Stock code	A	Phase	Weight (Kg/unit)
GL 16F1-Pec	951900165511000	16	L1-N-Pec	0.232
GL 16F2-Pec	952000165511000	16	L2-N-Pec	0.232
GL 16F3-Pec	952100165511000	16	L3-N-Pec	0.232
GL 16F4-1-Pec	952200165511000	16	L1-L2-L3-N-Pec	0.300
GL 16F1-CE	951900165531000	16	L1-N-CE	0.232
GL 16F2-CE	952000165531000	16	L2-N-CE	0.232
GL 16F3-CE	952100165531000	16	L3-N-CE	0.232
GL 16F4-1-CE	952200165531000	16	L1-L2-L3-N-CE	0.300
GL 16F1-ACK	951900165541000	16	L1-N-ACK-Pe(gövde/housing)	0.300
GL 16F2-ACK	952000165541000	16	L2-N-ACK-Pe(gövde/housing)	0.300
GL 16F3-ACK	952100165541000	16	L2-N-ACK-Pe(gövde/housing)	0.300
GL 16F1	951900165521000	16	L1-N-Pe(gövde/housing)	0.232
GL 16F2	952000165521000	16	L2-N-Pe(gövde/housing)	0.232
GL 16F3	952100165521000	16	L3-N-Pe(gövde/housing)	0.232
GL 16F4-1	952200165521000	16	L1-L2-L3-N-Pe(gövde/housing)	0.300

Standard cable length: 1000 mm

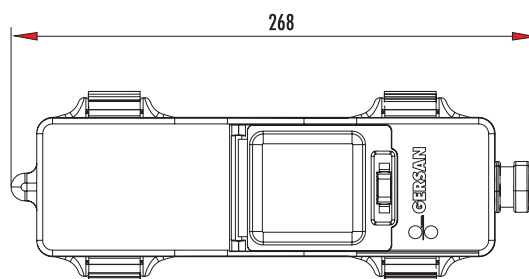
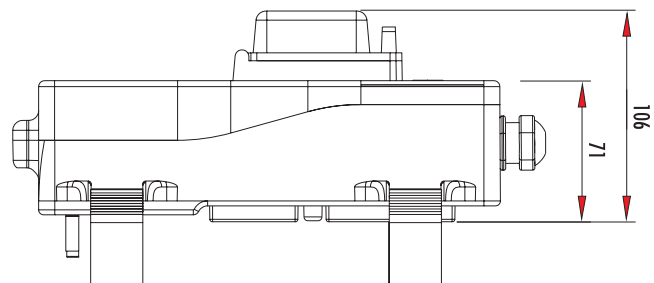
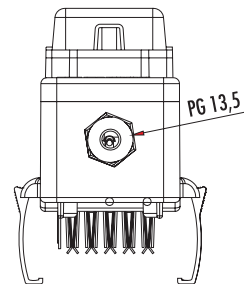
On request the length of the cable is available with 2000 mm or 3000 mm or 4000 mm.

Clean Earth is CE coded products.

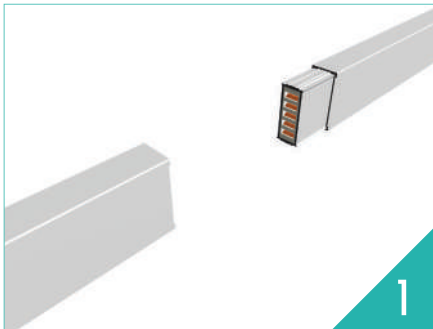
MCB Type Tap-Off Box



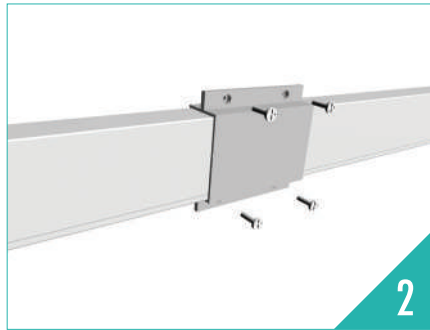
Order code	Stock code	Execution	Weight (Kg/unit)
GL F32W-Pec	952200325511000	3x32A MCB	0.470
GL F32G-Pec	952300325511000	3x32A GF	0.600
GL F32W-CE	952200325521000	3x32A MCB	0.470
GL F32G-CE	952300325521000	3x32A GF	0.600



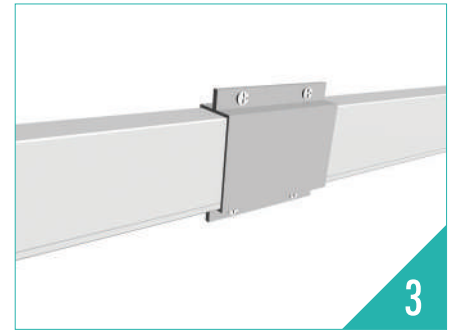
Tapp-offs are interchangeable between busbar types. These materials are designed according to 32A triphase and monophas with glass fuse.



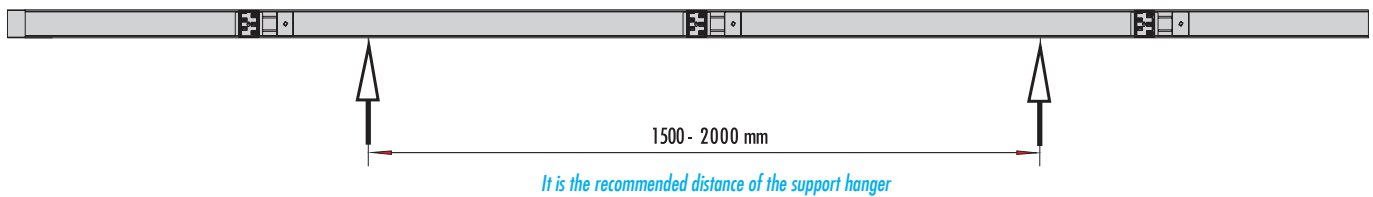
1) The surfaces of both elements that will be added each other are brought side by side.
2) Position Busbar with uniting joint points.



3) Joint set have elements like in the picture.



4) Covering process completes with using 4 nos. M5x15 screws.
5) Joint covering process supply IP55 and mechanical protection.



Technical Details

			40 A	63 A	100 A
Insulation voltage	U_i	V	690		
Operational Voltage	U_E	V	690		
Frequency	f	Hz	50/60		
Degree of protection	IP		55		
Rated current	I_N	A	40	63	100
Rated short circuit time current (1 s)	$I_{cw} (I_s)$	kA _{rms}	3	3	3.5
Peak current	I_{pk}	kA	4.5	4.5	5.25
Phase resistance	R_{20}	mΩ/m	1.8	1.28	0.9
Phase resistance	R_l	mΩ/m	2,41	1,71	1,2
Phase reactance	X_l	mΩ/m	0,98	0,7	0,43
Phase impedance	Z_l	mΩ/m	2,61	1,85	1,3
Cross section phases	S	mm ²	10	14	26
Cross section neutral	S_N	mm ²	10	14	26
Cross section of protective conductor (aluminium)	S_{PE}	mm ²	280		

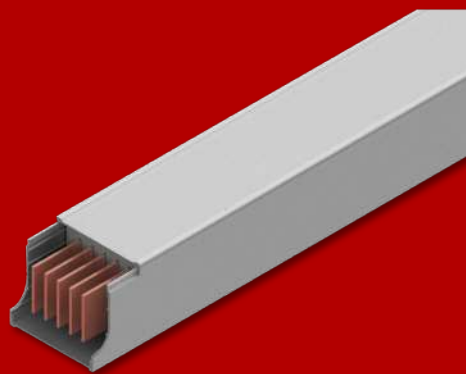
BUSBAR TRUNKING SYSTEMS



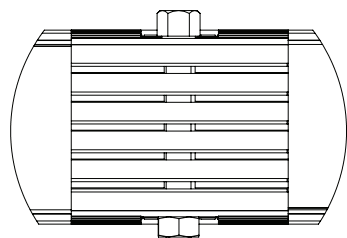
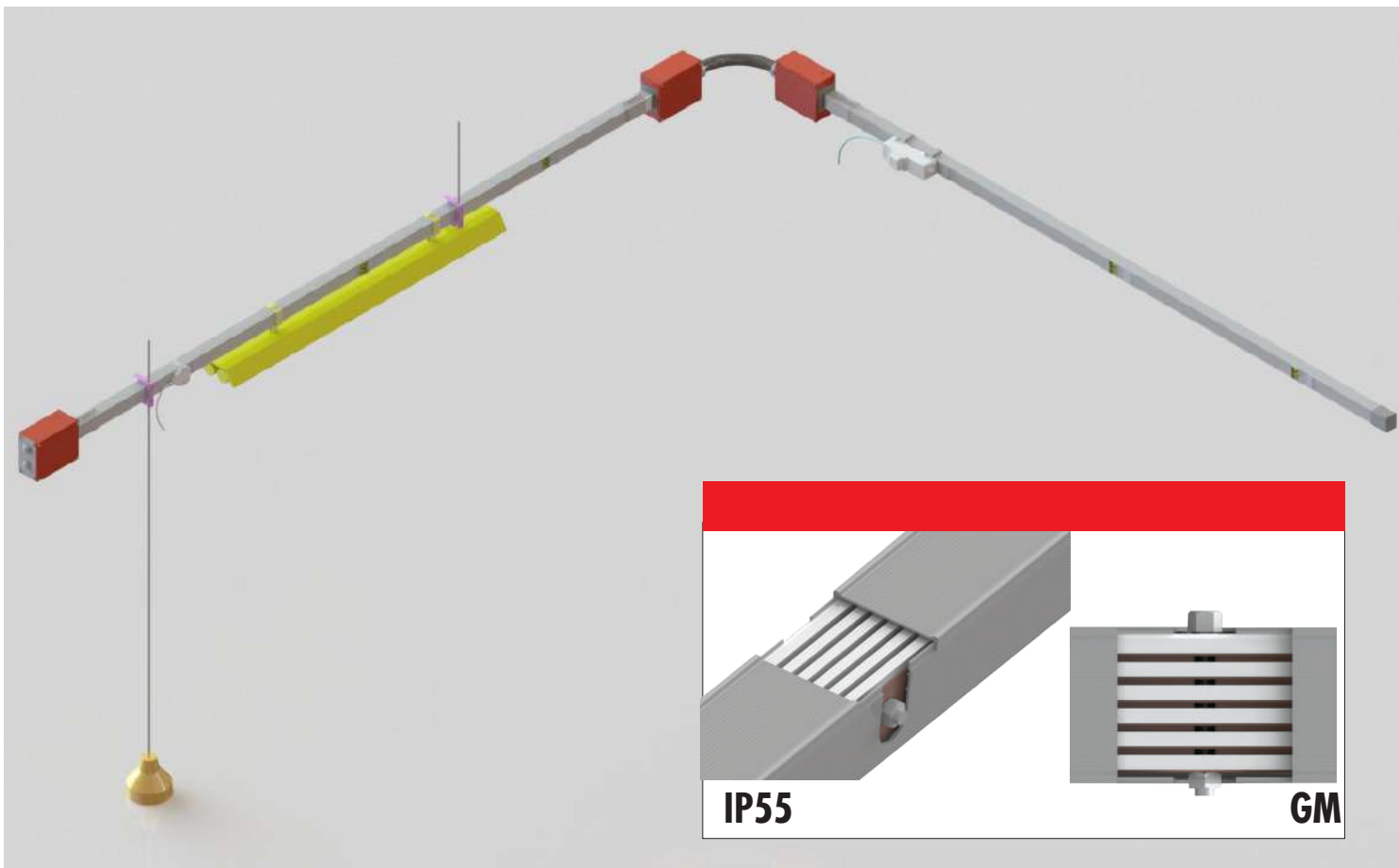
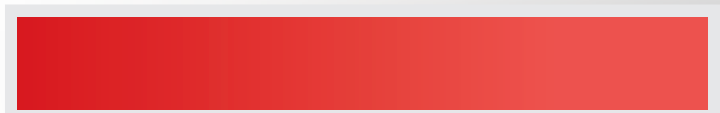
ISO 9001 / ISO 14001
ISO 45001



GM

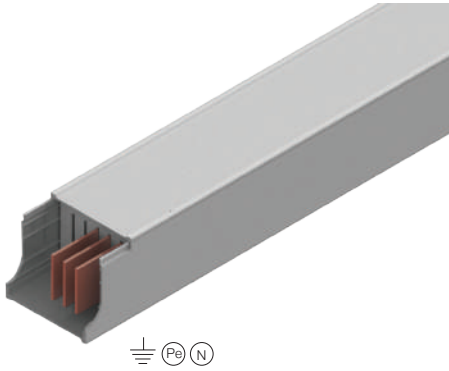


100-400A

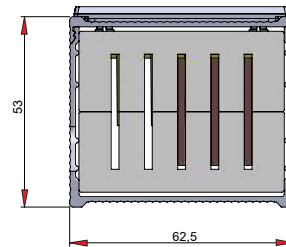


- * This type is for low power distribution.*
- * Aluminium housing supplies decorative look.*
- * Are manufactured with 5 conductors.*
- * Supplies Pec (Clean Earth) conductor.*
- * Aluminium housing can be used as extra Pe conductor.*
- * The conductors may be aluminium or copper depending on the choice.*
- * Hard fixing bar joint system supplies comfort during installation.*
- * Offers a wide range of accessories.*
- * Are manufactured with IP55 protection degree.*
- * Owns all international certifications and CE certification about busbar systems.*

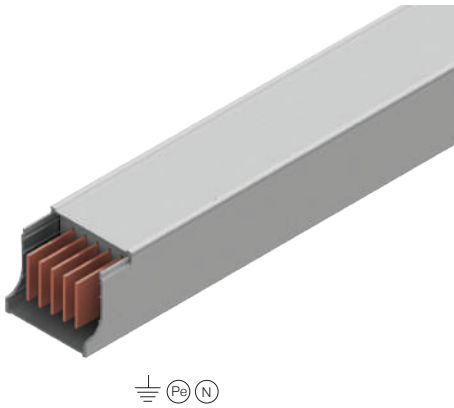
Standard Length Element P+N+E+(AL Housing)



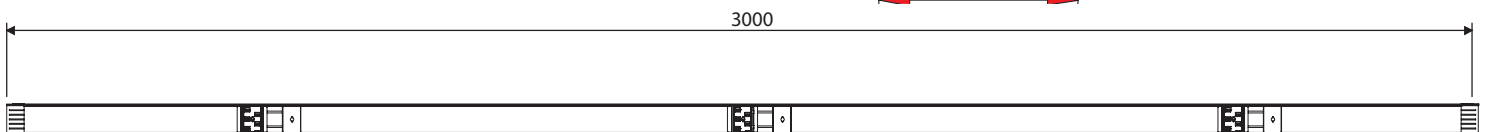
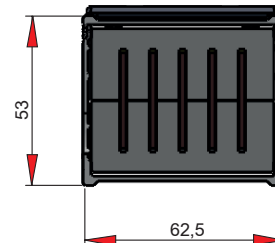
Order code	Stock code	A	mm	Weight (Kg/m)
GMA 10033	930601005513030	100	3000	3,170
GMA 16033	930601605513030	160	3000	3,350
GMA 22533	930602255513030	225	3000	3,850
GMA 40033	930604005513030	400	3000	4,350
GMC 16033	940601605513030	160	3000	3,900
GMC 22533	940602255513030	225	3000	4,930
GMC 40033	940604005513030	400	3000	5,950



Standard Length Element 3P+N+E+(AL Housing)

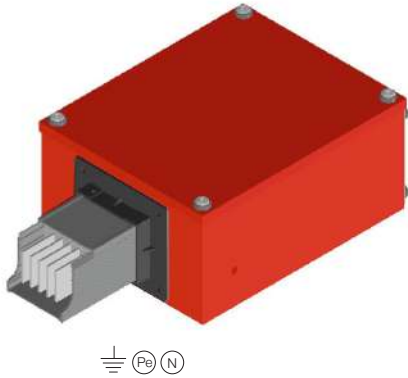


Order code	Stock code	A	mm	Weight (Kg/m)
GMA 10035	930101005513050	100	3000	3,380
GMA 16035	930101605513050	160	3000	3,670
GMA 22535	930102255513050	225	3000	4,170
GMA 40035	930104005513050	400	3000	4,670
GMC 16035	940101605513050	160	3000	4,620
GMC 22535	940102255513050	225	3000	6,000
GMC 40035	940104005513050	400	3000	7,500

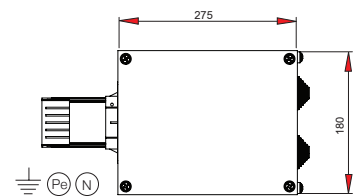
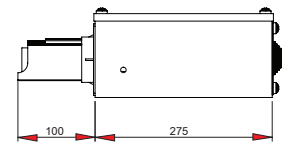
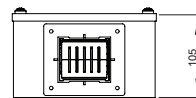


Manufacture with aluminium bar (black lines) or copper bar (red lines).

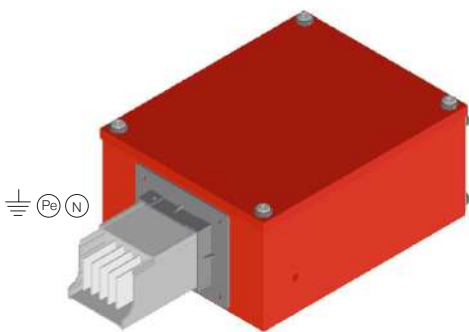
Feed unit (Left)



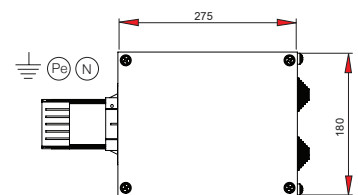
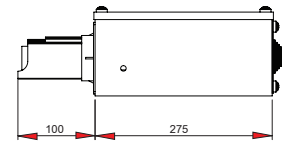
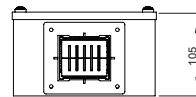
Order code	Stock code	A	Weight (Kg/m)
GMA EF41-Pec	931001605510050	100-400	4.400
GMA EF41-CE	931001605511050	100-400	4.400
GMA EF41-ACK	931001605512050	100-400	4.400
GMC EF41-Pec	941002255510050	160-400	5.130
GMC EF41-CE	941002255511050	160-400	5.130
GMC EF41-ACK	941002255512050	160-400	5.130



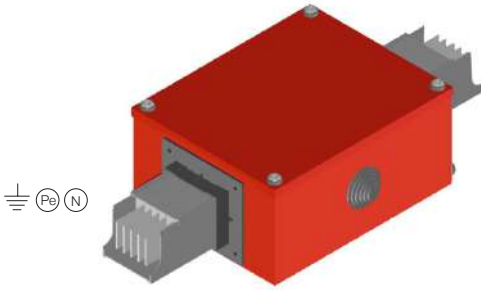
Feed unit (Right)



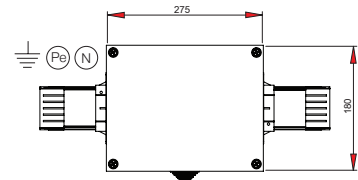
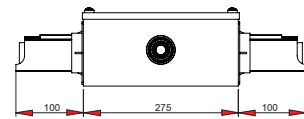
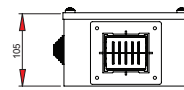
Order code	Stock code	A	Weight (Kg/unit)
GMA EF42-Pec	931101605510050	100-400	4.400
GMA EF42-CE	931101605511050	100-400	4.400
GMA EF42-ACK	931101605512050	100-400	4.400
GMC EF42-Pec	941102255510050	160-400	5.130
GMC EF42-CE	941102255511050	160-400	5.130
GMC EF42-ACK	941102255512050	160-400	5.130



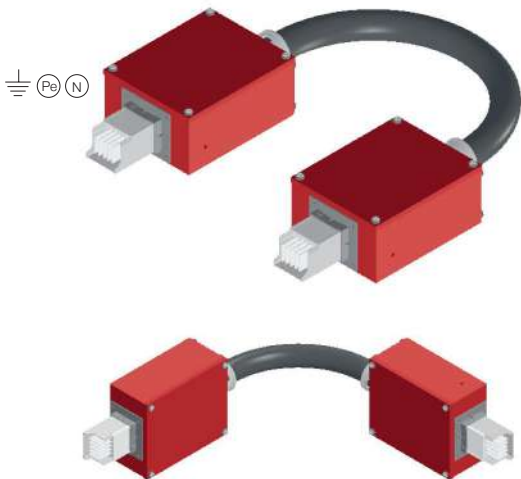
Centre Feed Unit 3P+N+1/2 PE



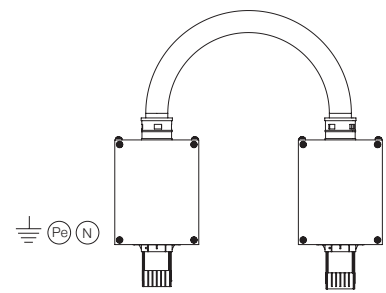
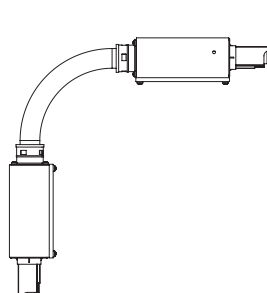
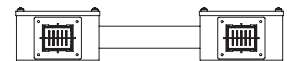
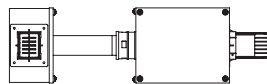
Order code	Stock code	A	Weight (Kg/unit)
GMA EF43-Pec	931201605510050	100-400	5.100
GMA EF43-CE	931201605511050	100-400	5.100
GMA EF43-ACK	931201605512050	100-400	5.100
GMC EF43-Pec	941202255510050	160-400	7.000
GMC EF43-CE	941202255511050	160-400	7.000
GMC EF43-ACK	941202255512050	160-400	7.000



Flexible Joint for Elbow



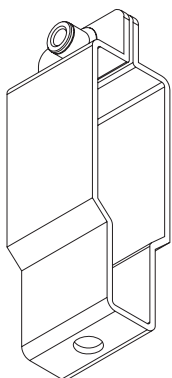
Order code	Stock code	A	Weight (Kg/unit)
GMA 160FX-PEC	932301605511000	100-400	9.200
GMA 160FX-CE	932301605521000	100-400	9.200
GMA 160FX-ACK	932301605531000	100-400	9.200
GMC 225FX-Pec	942302255511000	160-400	12.700
GMC 225FX-CE	942302255521000	160-400	12.700
GMC 225FX-ACK	942302255531000	160-400	12.700



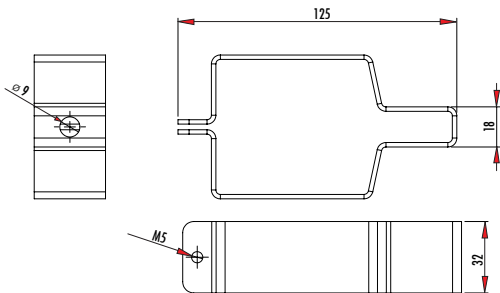
L=1000 mm



Lighting fixtures fixing hanger



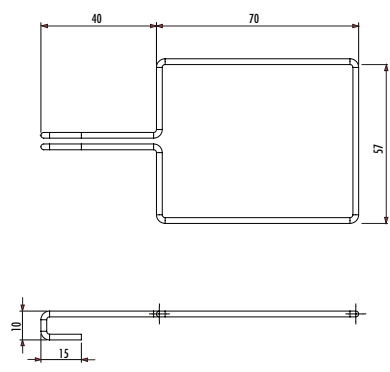
Order code	Stock code	Weight (Kg/unit)
GM SSU1	93140000040000	0.080



Lighting fixtures fixing hanger



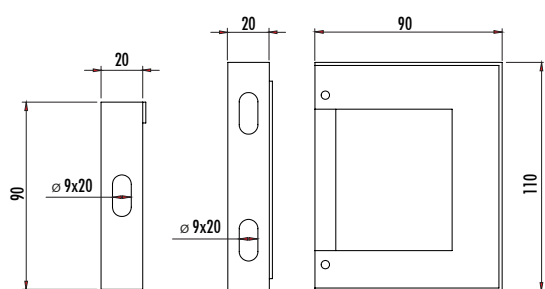
Order code	Stock code	Weight (Kg/unit)
GM SSU2	93140000040002	0.011



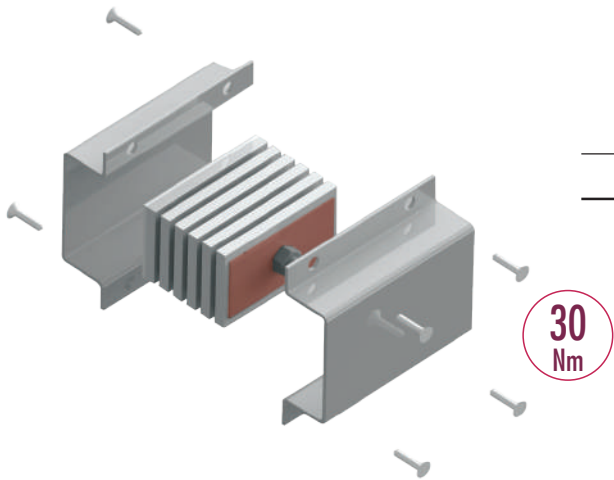
Busbar fixing hanger



Order code	Stock code	Weight (Kg/unit)
GM SSU3	93140000040003	0.170

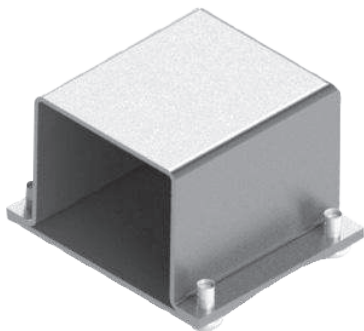


IP55 Joint Cover

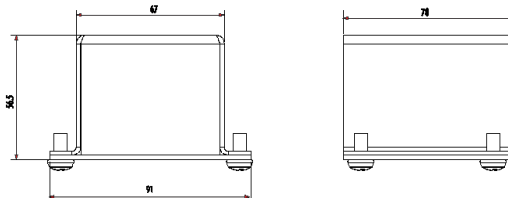


Order code	Stock code	Weight (Kg/unit)
GM ALC	93040160551AL50	0.240

End Cap



Order code	Stock code	Weight (Kg/unit)
GM EC40	931301605550000	0.200



Lighting Fixture Jack



Order code	Stock code	A	Phaze	Weight (Kg/unit)
GM 16L1-Pec	931500165511000	16	L1-N-Pe	0.380
GM 16L2-Pec	931600165511000	16	L2-N-Pe	0.380
GM 16L3-Pec	931700165511000	16	L3-N-Pe	0.380
GM 16L4-1-Pec	931800165511000	16	L1-L2-L3-N-Pe	0.430
GM 16L1-CE	931500165531000	16	L1-N-CE	0.380
GM 16L2-CE	931600165531000	16	L2-N-CE	0.380
GM 16L3-CE	931700165531000	16	L3-N-CE	0.380
GM 16L4-1-CE	931800165531000	16	L1-L2-L3-N-CE	0.430
GM 16L1-ACK	931500165541000	16	L1-N-ACK-Pe(housing)	0.400
GM 16L2-ACK	931600165541000	16	L2-N-ACK-Pe(housing)	0.400
GM 16L3-ACK	931700165541000	16	L3-N-ACK-Pe(housing)	0.400
GM 16L1	931500165521000	16	L1-N-Pe(housing)	0.380
GM 16L2	931600165521000	16	L2-N-Pe(housing)	0.380
GM 16L3	931700165521000	16	L3-N-Pe(housing)	0.380
GM 16L4-1	931800165521000	16	L1-L2-L3-N-Pe(housing)	0.430

Standard cable length: 1000 mm

On request the length of the cable is available with 2000 mm or 3000 mm or 4000 mm.

Clean Earth is CE coded products.

Lighting Fixture Jack With Glass Fuse



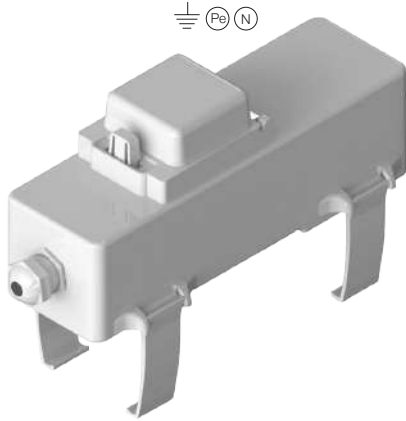
Order code	Stock code	A	Phaze	Weight (Kg/unit)
GM 16F1-Pec	931900165511000	16	L1-N-Pe	0.400
GM 16F2-Pec	932000165511000	16	L2-N-Pe	0.400
GM 16F3-Pec	932100165511000	16	L3-N-Pe	0.400
GM 16F4-1-Pec	932200165511000	16	L1-L2-L3-N-Pe	0.450
GM 16F1-CE	931900165531000	16	L1-N-CE	0.400
GM 16F2-CE	932000165531000	16	L2-N-CE	0.400
GM 16F3-CE	932100165531000	16	L3-N-CE	0.400
GM 16F4-1-CE	932200165531000	16	L1-L2-L3-N-CE	0.450
GM 16F1-ACK	931900165541000	16	L1-N-ACK-Pe(housing)	0.420
GM 16F2-ACK	932000165541000	16	L2-N-ACK-Pe(housing)	0.420
GM 16F3-ACK	932100165541000	16	L3-N-ACK-Pe(housing)	0.420
GM 16F1	931900165521000	16	L1-N-Pe(housing)	0.400
GM 16F2	932000165521000	16	L2-N-Pe(housing)	0.400
GM 16F3	932100165521000	16	L3-N-Pe(housing)	0.400
GM 16F4-1	932200165521000	16	L1-L2-L3-N-Pe(housing)	0.480

Standard cable length: 1000 mm

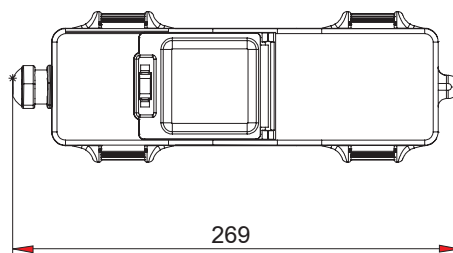
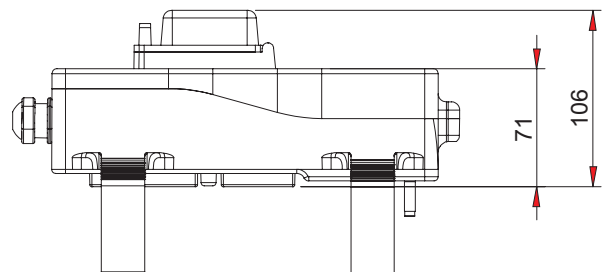
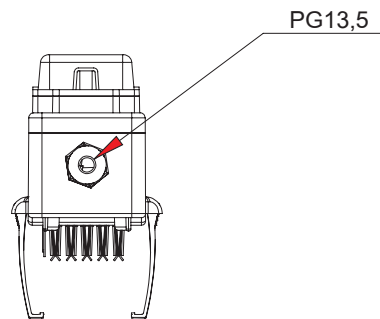
On request the length of the cable is available with 2000 mm or 3000 mm or 4000 mm.

Clean Earth is CE coded products.

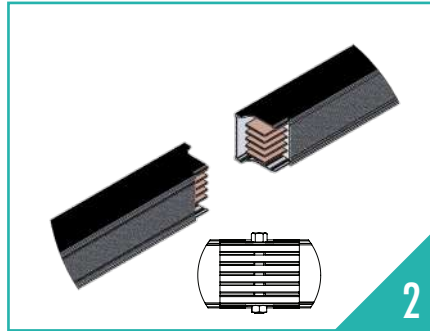
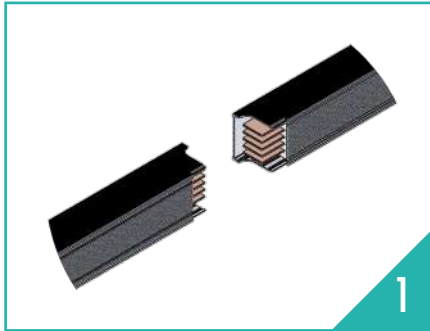
MCB Type Tap-Off Box



Order code	Stock code	Execution	Weight (Kg/unit)
GM F32W-Pec	932200325511000	3x32A MCB	0.470
GM F32G-Pec	932300325511000	3x32A GF	0.600
GM F32W-CE	932200325521000	3x32A MCB	0.470
GM F32G-CE	932300325521000	3x32A GF	0.600



Tapp-offs are interchangeable between busbar types. These materials are designed according to 32A triphase and monophase with glass fuse.



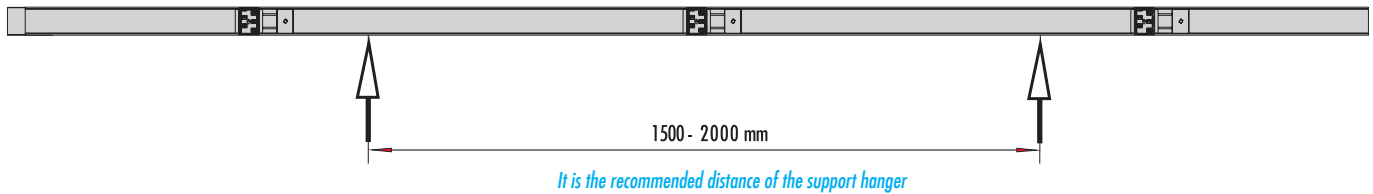
1) The surfaces of both elements that will be added each other are brought side by side.

3) Joint set have elements like in the picture.

4) Covering process completes with using 4 nos. M5x15 screws.

2) Position Busbar with uniting joint points.

5) Joint covering process supply IP55 and mechanical protection.



Technical Details

			100 A	160 A	250 A	400 A
Insulation Voltage	U_i	V		1000		
Operational Voltage	U_E	V		690		
Frequency	f	Hz		50/60		
Degree of Protection	IP			55		
Rated Current	I_N	A	100	160	225(250)	315(400)
Rated Short circuit time current (1 s)	$I_{cw} (1s)$	kArms	3.5	6	12,5	15
Peak current	I_{pk}	kA	5,25	9	18,75	22.5
Phase resistance	R_{20}	m Ω /m	0,49	0,32	0,25	0,19
Phase resistance	R_l	m Ω /m	0,58	0,38	0,29	0,23
Phase reactance	X_l	m Ω /m	0,20	0,13	0,10	0,08
Phase impedance	Z_l	m Ω /m	0,61	0,40	0,30	0,06
Cross section phases	S	mm ²	25(50)	50(75)	75(100)	100(125)
Cross section neutral	S_N	mm ²	25(50)	50(75)	75(100)	100(125)
Cross section of protective conductor (Aluminium)	S_{PE}	mm ²	300	300	300	300

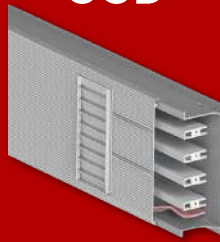
BUSBAR TRUNKING SYSTEMS



ISO 9001 / ISO 14001
ISO 45001



GGD



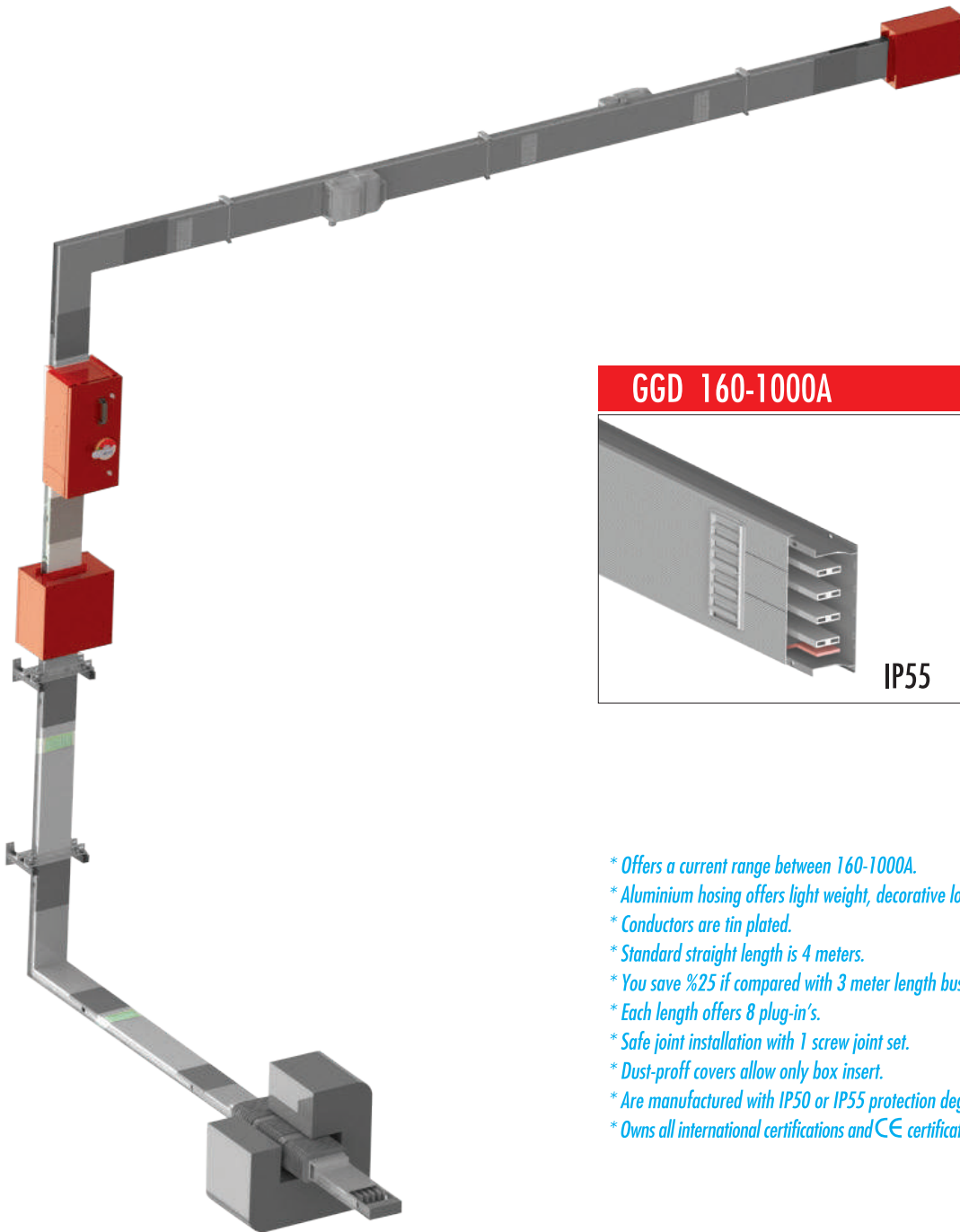
160-400A



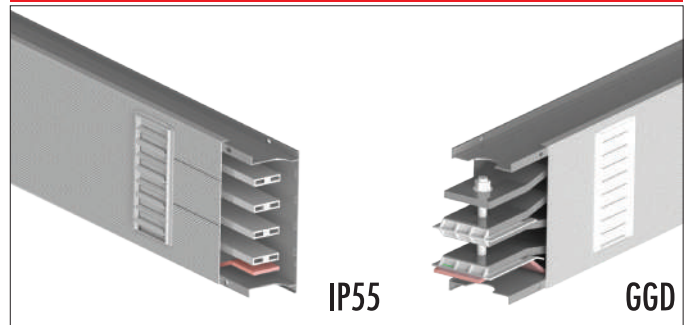
GGD



500-1000A



GGD 160-1000A



- * Offers a current range between 160-1000A.
- * Aluminium housing offers light weight, decorative look and hardness.
- * Conductors are tin plated.
- * Standard straight length is 4 meters.
- * You save %25 if compared with 3 meter length busbar systems.
- * Each length offers 8 plug-in's.
- * Safe joint installation with 1 screw joint set.
- * Dust-proof covers allow only box insert.
- * Are manufactured with IP50 or IP55 protection degree.
- * Owns all international certifications and CE certification about busbar systems.

GGD Serie- 160-1000A. This serie owns aluminium housing with 4 meters length, 8 pieces of plug-outs, one screw jointing piece for fast and easy and economic installation. This serie offers current plug outs between 160-1000A. This serie is one of your best helper in the projects with rich accesories.

GGD

GGD-A 160-1000A

The conductors used in this serie are aluminium. (EC Grade)

GGD-C 160-800A

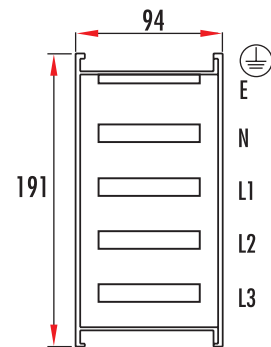
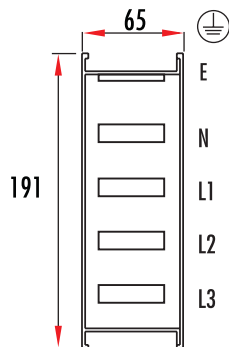
The conductors used in this serie are electrolytic copper (%99.9 purity)

3P+N+%50E

GGD-A 160-400A

GGD-C 160-800A

GGD-A 500-1000A



Standard Length Element 3P+N+1/2 Pe

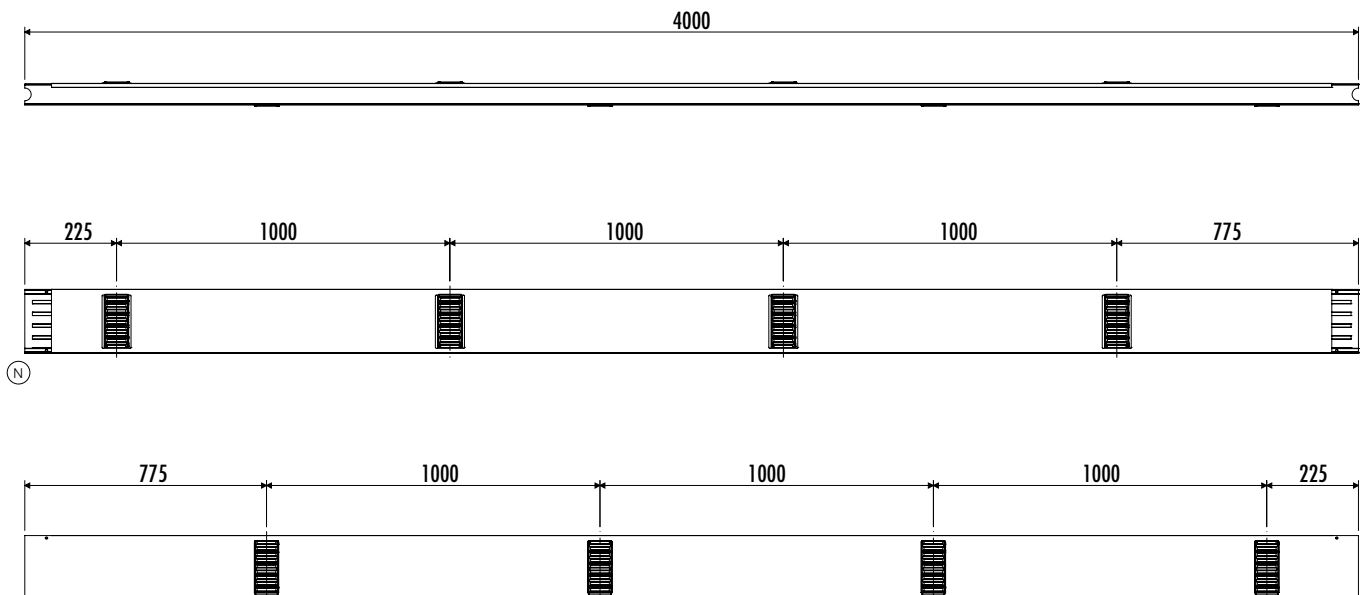


GGD-A

Order code	Stock code	A	mm	Weight (Kg/m)
GGD-A 201000	810101605524050	160	4000	5.380
GGD-A 202000	810102505524050	250	4000	5.380
GGD-A 203100	810103165524050	315	4000	5.380
GGD-A 204100	810104015524050	400	4000	5.380

GGD-C

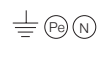
Order code	Stock code	A	mm	Weight (Kg/m)
GGD-C 201000	820101605514051	160	4000	10.860
GGD-C 202000	820102505514051	250	4000	10.860
GGD-C 203000	820103155514051	315	4000	10.860
GGD-C 204000	820104005514051	400	4000	10.860
GGD-C 205000	820105005514051	500	4000	13.720
GGD-C 206000	820106305514051	630	4000	13.720
GGD-C 208000	820108005514051	800	4000	14.100



* Standard element is IP50. Please inform the accessories for IP55 when ordering

MEDIUM POWER BUSBAR TRUNKING SYSTEMS

Non-Standard Length Element 3P+N+1/2 Pe



Min X = 400 mm
Max X = 3999 mm

Please inform XY Length when ordering.

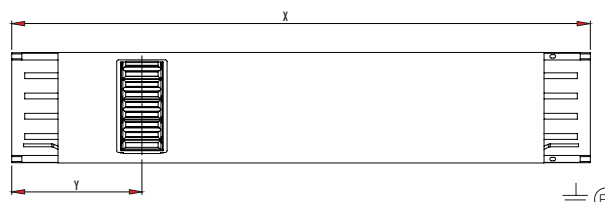
* Standard element is IP50. Please inform the accessories for IP55 when ordering

GGD-A

Order code	Stock code	A	Weight (Kg/m)
GGD-A 201001	810301605521050	160	5.344
GGD-A 202001	810302505521050	250	5.344
GGD-A 203101	810303165521050	315	5.344
GGD-A 204101	810304015521050	400	5.344

GGD-C

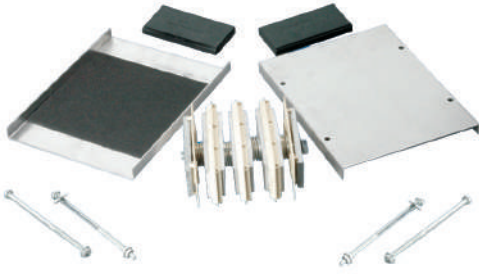
Order code	Stock code	A	Weight (Kg/m)
GGD-C 201001	820301605511051	160	10.860
GGD-C 202001	820302505511051	250	10.860
GGD-C 203001	820303155511051	315	10.860
GGD-C 204001	820304005511051	400	10.860
GGD-C 205001	820305005511051	500	13.720
GGD-C 206001	820306305511051	630	13.720
GGD-C 208001	820308005511051	800	14.100



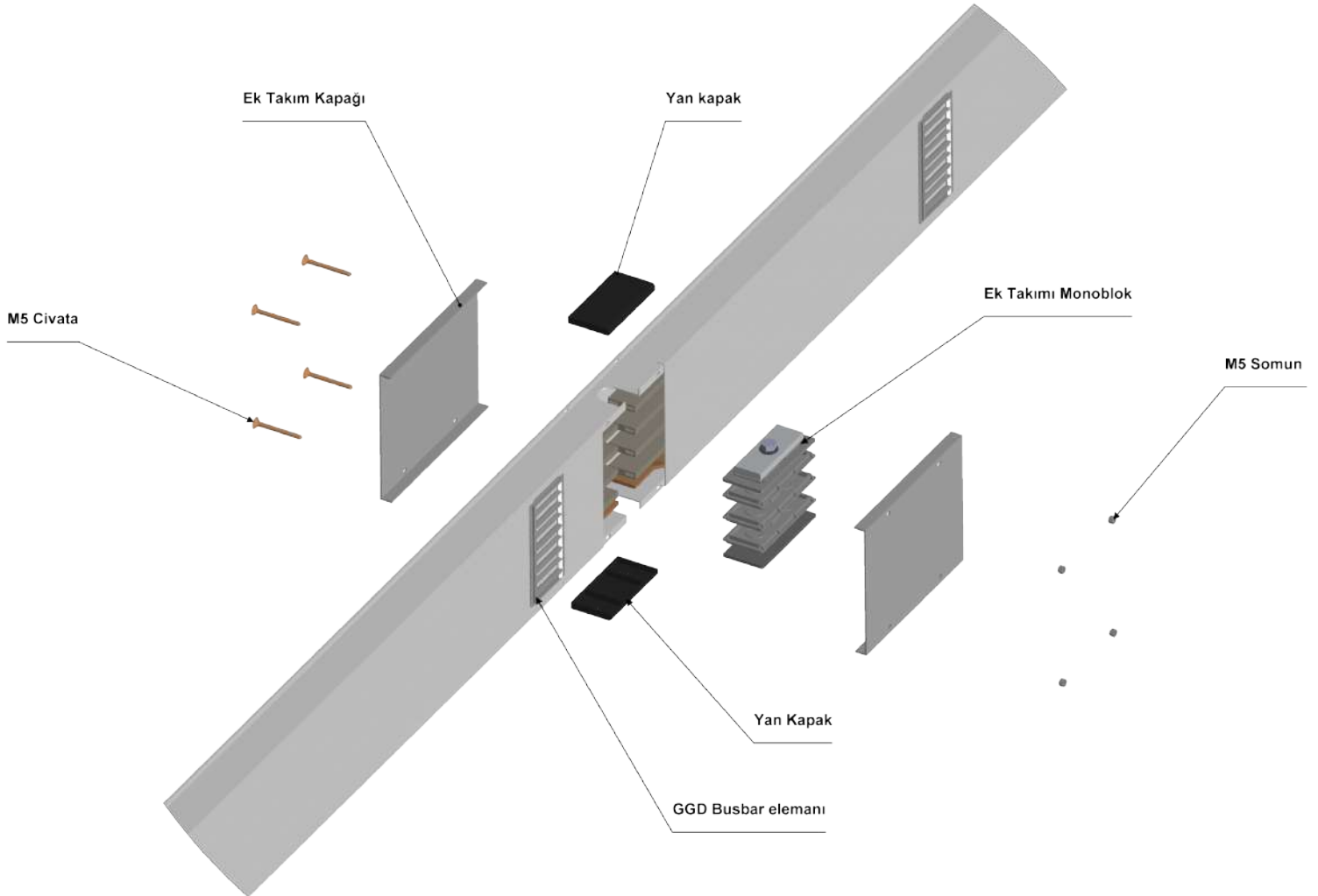
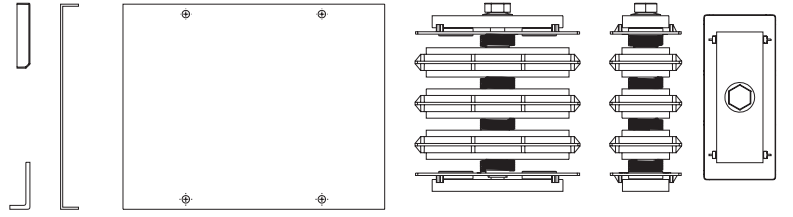
Min X-Y=775 mm Min Y=225 mm



One-Bolt Joint Set 3P+N+1/2 PE



Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 6135	810404005520050	160-400	2.500
GGD-C 6135	820404005510051	160-800	4.500



Horizontal Elbow Element (Right) 3P+N+1/2 PE

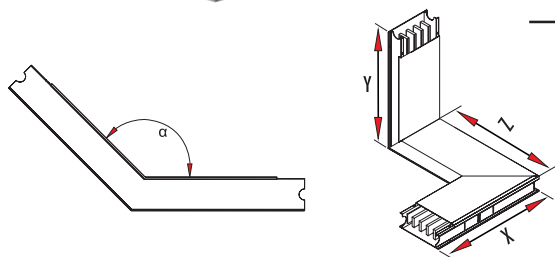
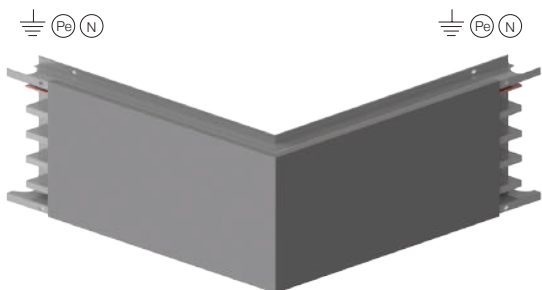
GGD-A

Order code	Stock code	A	Weight (Kg/m)
GGD-A 200102	811204005520050	160-400	6.300

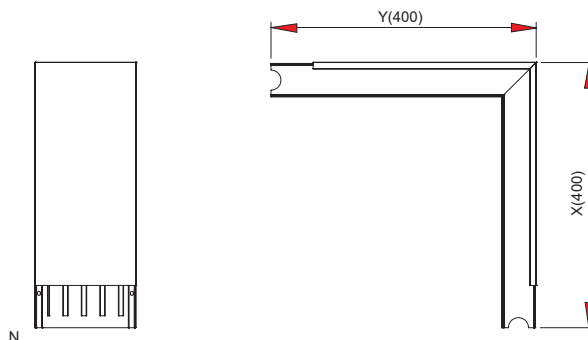
GGD-C

Order code	Stock code	A	Weight (Kg/m)
GGD-C 200102	821204005510051	160-800	14.600

X - Min: 400 mm. Max: 800 mm
 Y - Min: 400 mm. Max: 800 mm
 Z - Min: 400 mm



Please inform your request for special angle or vertical + horizontal elbow combinations.
 - Min 88° - Max 179°



90° Horizontal Elbow Element (Left) 3P+N+1/2 PE

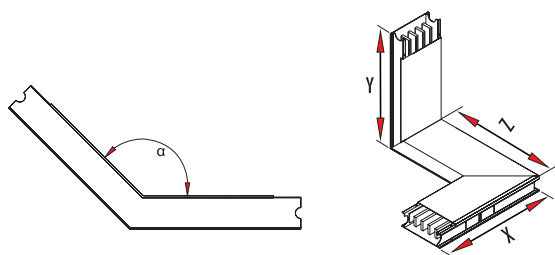
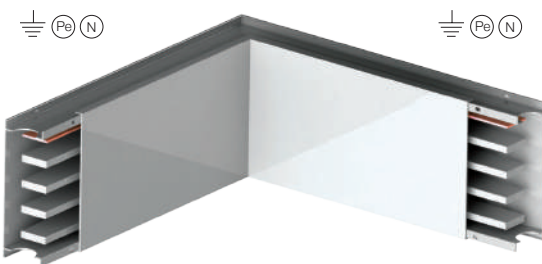
GGD-A

Order code	Stock code	A	Weight (Kg/unit)
GGD-A 200101	811104005520050	160-400	6.200

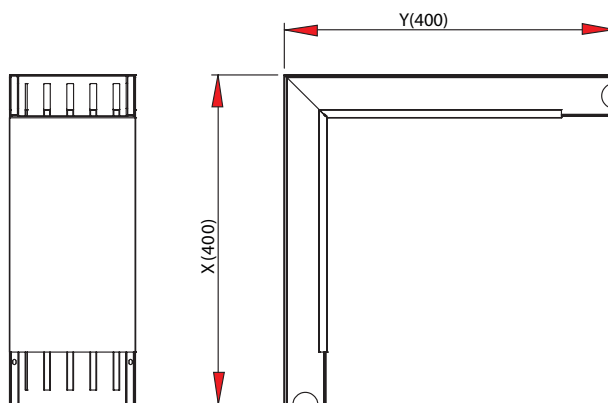
GGD-C

Order code	Stock code	A	Weight (Kg/unit)
GGD-C 200101	821104005510051	160-800	14.500

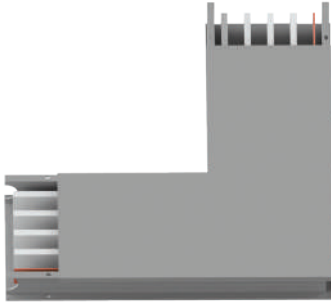
X - Min: 400 mm. Max: 800 mm
 Y - Min: 400 mm. Max: 800 mm
 Z - Min: 400 mm



Please inform your request for special angle or vertical + horizontal elbow combinations.
 - Min 88° - Max 179°



90° Vertical Elbow Element (Right) 3P+N+1/2 PE

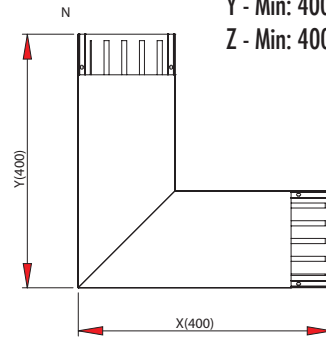
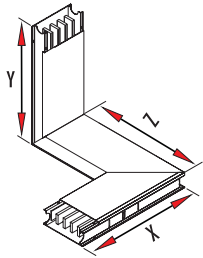
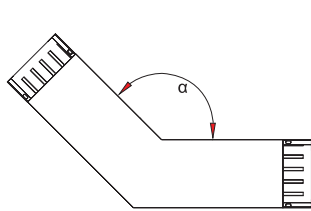


GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200104	811404005520050	160-400	6.000

GGD-C

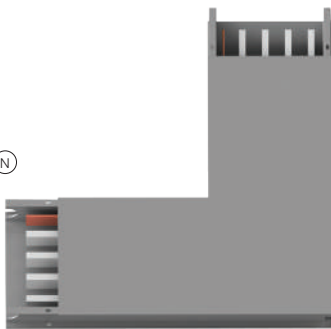
Order code	Stok kodu Stock code	A	Weight (Kg/Unit)
GGD-C 200104	821404005510051	160-800	13.921



X - Min: 400 mm. Max: 800 mm
Y - Min: 400 mm. Max: 800 mm
Z - Min: 400 mm

Please inform your request for special angle or vertical + horizontal elbow combinations.
- Min 88° - Max 179°

90° Vertical Elbow Element (Left) 3P+N+1/2 PE

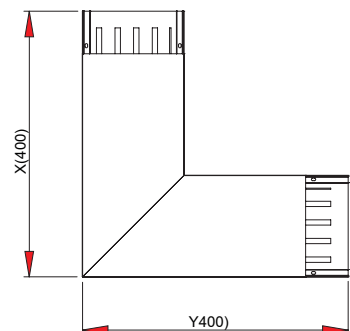
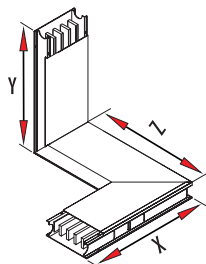
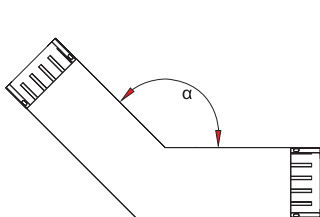


GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200103	811304005520050	160-400	6.000

GGD-C

Order code	Stock code	A	Weight (Kg/Unit)
GGD-C 200103	821304005510051	160-800	13.921

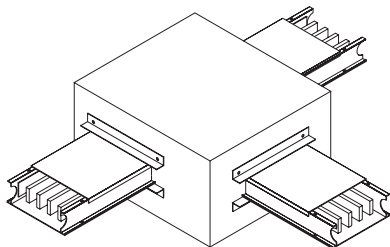
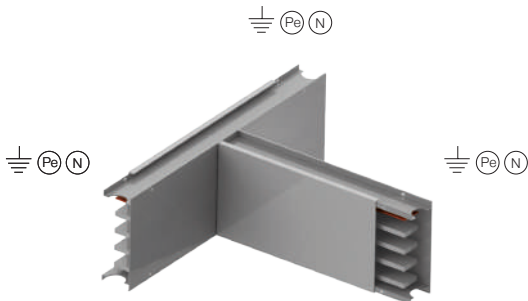


X - Min: 400 mm. Max: 800 mm
Y - Min: 400 mm. Max: 800 mm
Z - Min: 400 mm

Please inform your request for special angle or vertical + horizontal elbow combinations.
- Min 88° - Max 179°

MEDIUM POWER BUSBAR TRUNKING SYSTEMS

T Element (Right) 3P+N+1/2 PE



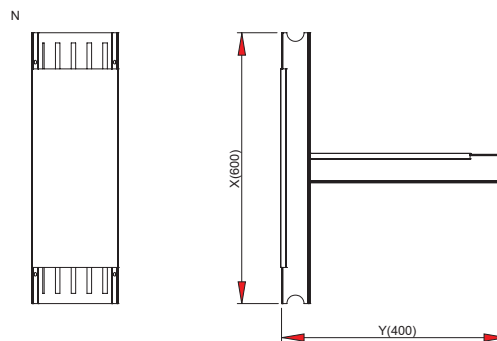
GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200111	811604005520050	160-400	7.500

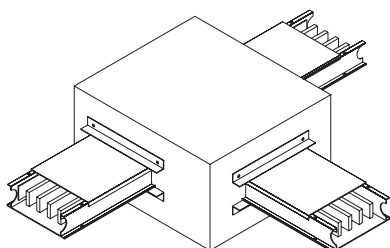
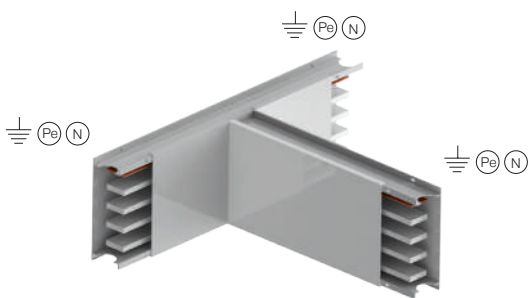
GGD-C

Order code	Stock code	A	Weight (Kg/Unit)
GGD-C 200104	821604005510051	160-800	18.093

X - Min: 600 mm. Max: 1000 mm
Y - Min: 400 mm. Max: 800 mm



T Element (Left) 3P+N+1/2 PE



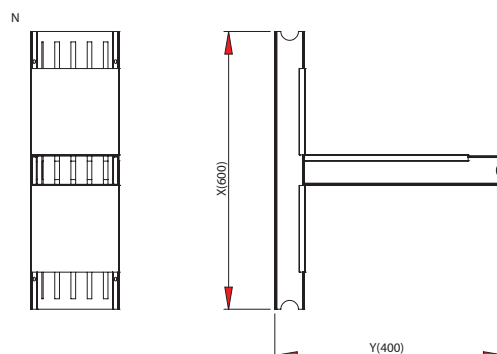
GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200109	811504005520050	160-400	7.500

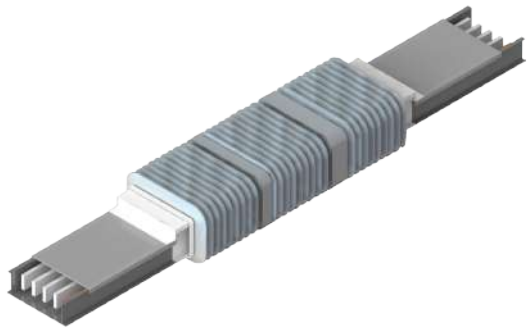
GGD-C

Order code	Stock code	A	Weight (Kg/Unit)
GGD-C 200109	821504005510051	160-800	18.093

X - Min: 600 mm. Max: 1000 mm
Y - Min: 400 mm. Max: 800 mm



Mechanical Dilatation Element 3P+N+1/2 PE



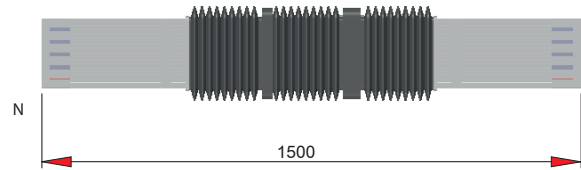
The expansion joint element must be inserted where there are structural expansion of the building.

GGD-A

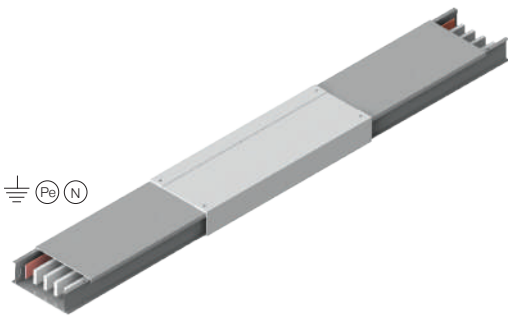
Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 204009	8113104005520050	160-400	15.800

GGD-C

Order code	Stock code	A	Weight (Kg/Unit)
GGD-C 204009	823104005510051	160-800	28.400



Horizontal Expansion Element 3P+N+1/2 PE



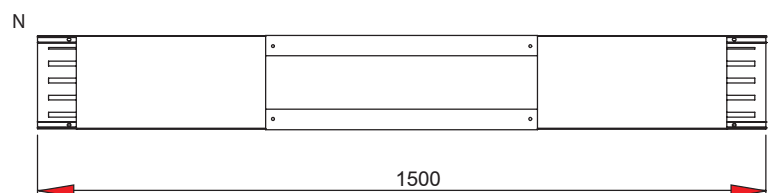
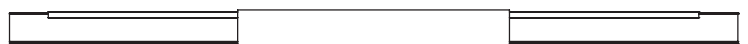
The expansion joint element must be inserted 1 in long straight line every ~ 40 meter.

GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 204011	811104005520052	160-400	18.400

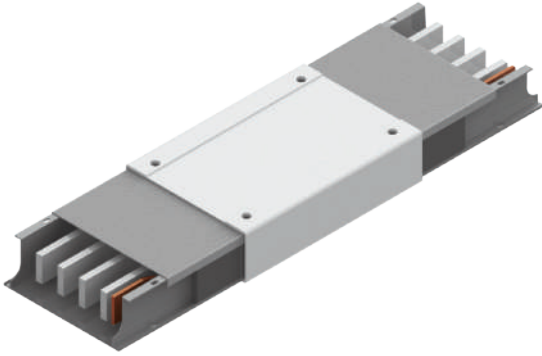
GGD-C

Order code	Stock code	A	Weight (Kg/Unit)
GGD-C 204011	823104005510053	160-800	31.640



MEDIUM POWER BUSBAR TRUNKING SYSTEMS

Vertical Expansion Element 3P+N+1/2 PE



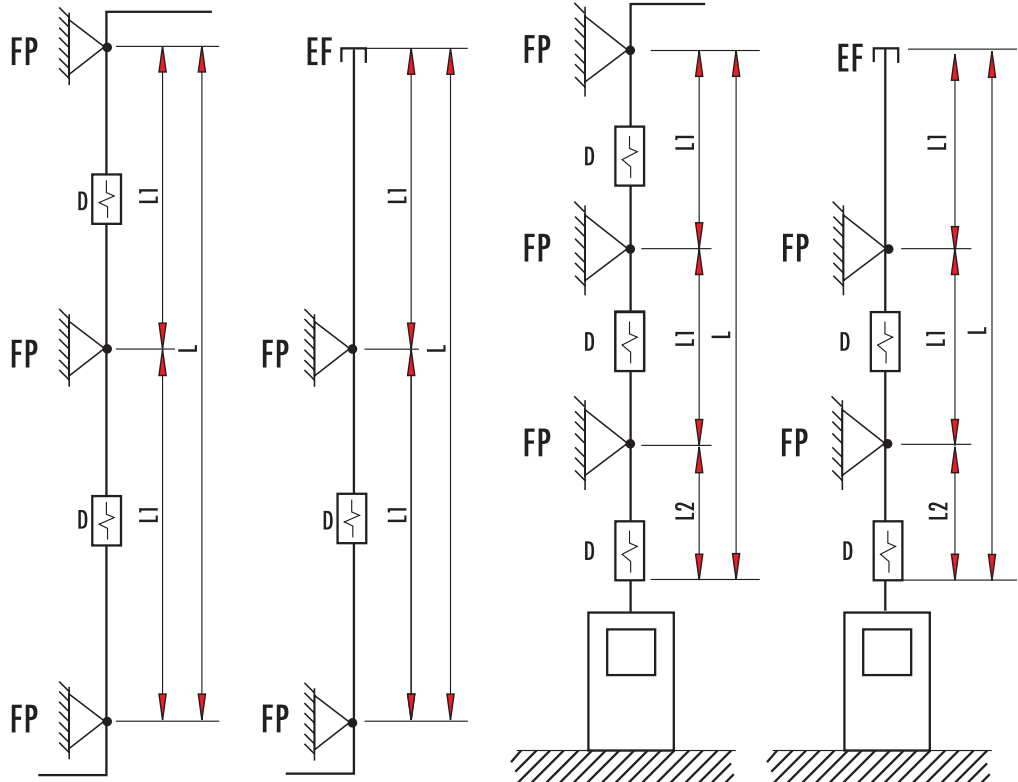
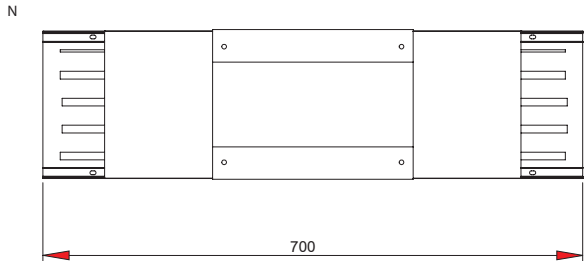
⏚ (Pe) (N)

GGD-A

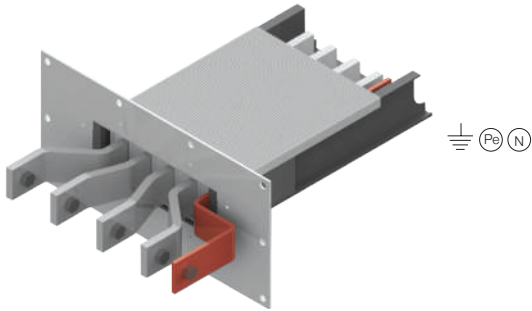
Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 204010	8113104005520051	160-400	6.040

GGD-C

Order code	Stock code	A	Weight (Kg/Unit)
GGD-C 204010	823104005510052	160-800	13.490



Switchboard Feed Unit (Right) 3P+N+1/2 PE



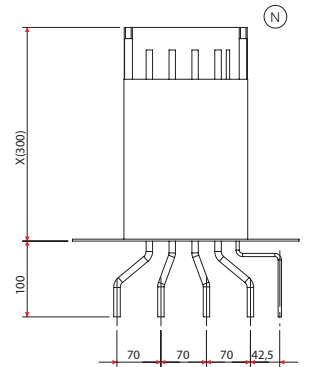
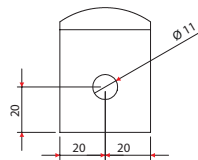
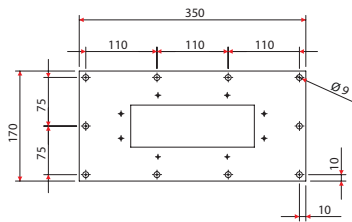
GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200030	811804005520050	160-400	18.400

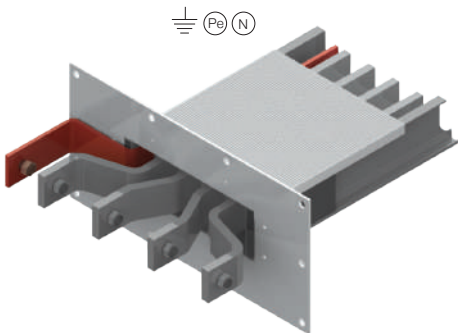
GGD-C

Order code	Stock code	A	Weight (Kg/Unit)
GGD-C 200030	821804005510051	160-800	8.820

X - Min: 300 mm. Max: 700 mm



Switchboard Feed Unit (Left) 3P+N+1/2 PE



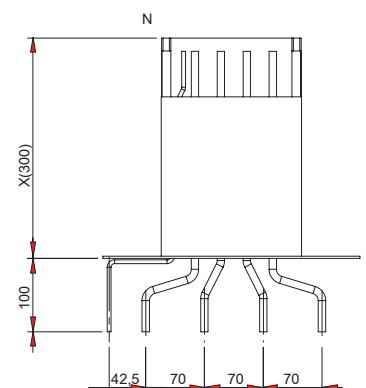
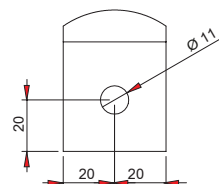
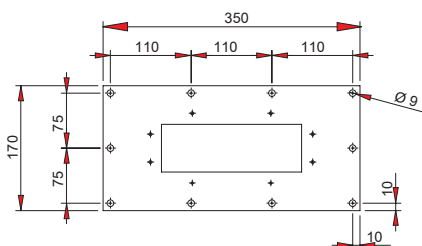
GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200032	811704005520050	160-400	4.550

GGD-C

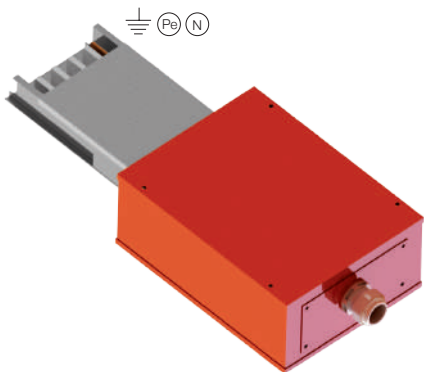
Order code	Stock code	A	Weight (Kg/Unit)
GGD-C 200030	821704005510051	160-800	8.820

X - Min: 300 mm. Max: 700 mm



MEDIUM POWER BUSBAR TRUNKING SYSTEMS

Feed Unit (Right) 3P+N+1/2 PE



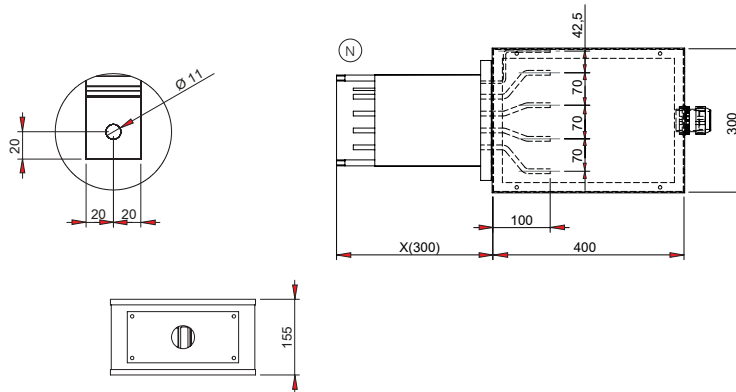
GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200021	812004005520050	160-400	9.400

GGD-C

Order code	Stock code	A	Weight (Kg/Unit)
GGD-C 200021	822004005510051	160-800	13.810

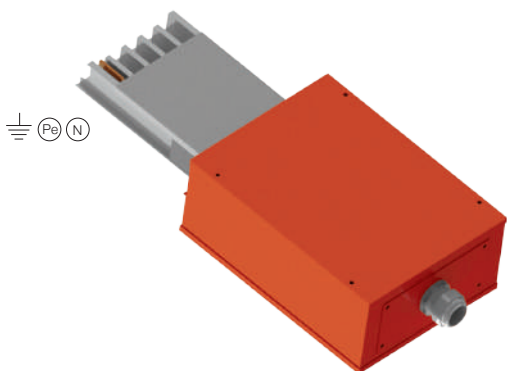
X - Min: 300 mm. Max: 700 mm



It is available to use with circuit breaker. please inform this when ordering.

Please specify cable dimensions for feed unit box's cable glands.

Feed Unit (Left) 3P+N+1/2 PE



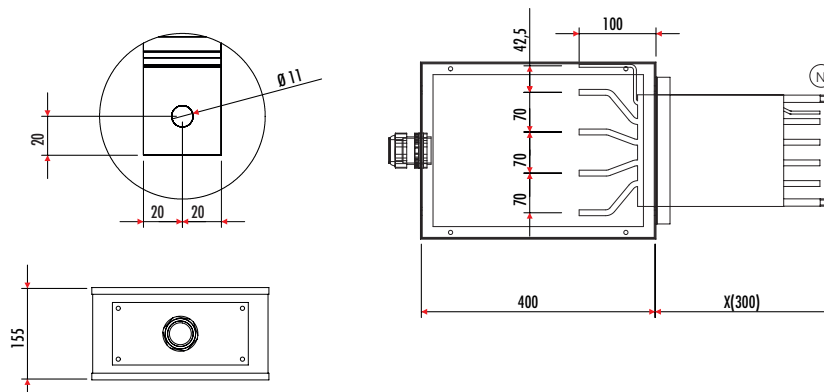
GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200020	811904005520050	160-400	9.400

GGD-C

Order code	Stock code	A	Weight (Kg/Unit)
GGD-C 200020	821904005510051	160-800	13.810

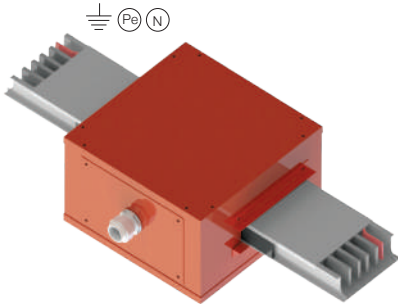
X - Min: 300 mm. Max: 700 mm



It is available to use with circuit breaker. please inform this when ordering.

Please specify cable dimensions for feed unit box's cable glands.

Centre Feed Unit 3P+N+1/2 PE



GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200024	812104005520050	160-400	17.000

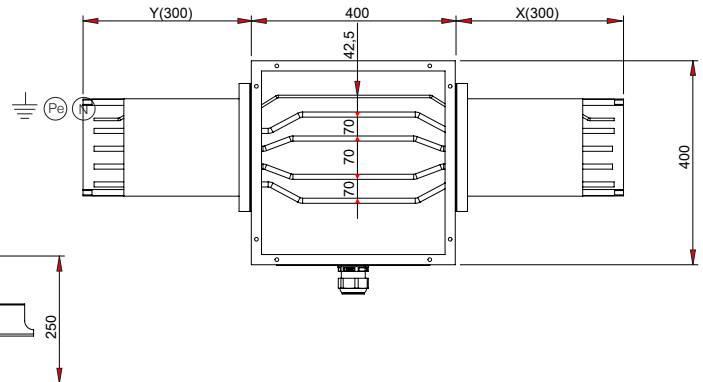
GGD-C

Order code	Stock code	A	Weight (Kg/Unit)
GGD-C 200024	822104005510051	160-800	28.100

X - Min: 300 mm. Max: 700 mm
Y - Min: 300 mm. Max: 700 mm

It is available to use with circuit breaker. please inform this when ordering.

Please specify cable dimensions for feed unit box's cable glands.



MEDIUM POWER BUSBAR TRUNKING SYSTEMS

Horizontal Offset Element (Right) 3P+N+1/2 PE



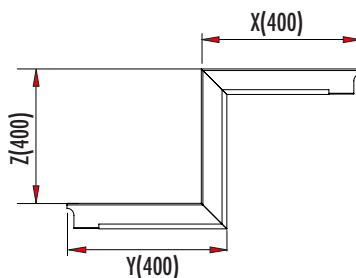
GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200124	812704005520050	160-400	9.500

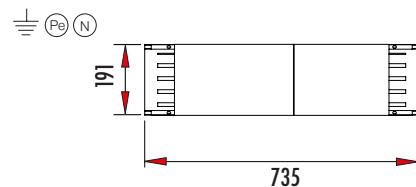
GGD-C

Order code	Stock code	A	Weight (Kg/Unit)
GGD-C 200124	822708005510051	160-800	22.560

Standard manufacturing length is given at the table. Requested lengths can be manufactured. Please inform the length X.Y.Z when ordering.



X - Min: 400mm. Max: 700mm
Y - Min: 400mm. Max: 700mm
Z - Min: 400mm. Max: 700mm



Horizontal Offset Element (Left) 3P+N+1/2 PE



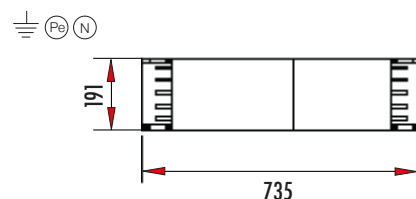
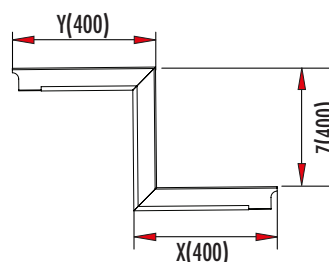
GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200123	812704005520051	160-400	9.500

GGD-C

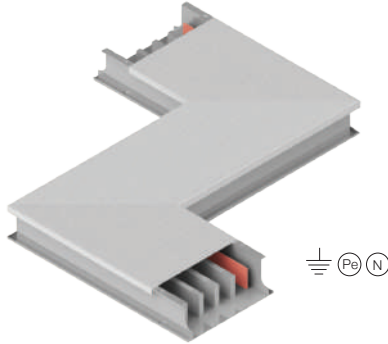
Order code	Stock code	A	Weight (Kg/Unit)
GGD-C 200123	822708005510052	160-800	22.560

X - Min: 400mm. Max: 700mm
Y - Min: 400mm. Max: 700mm
Z - Min: 400mm. Max: 700mm



Standard manufacturing length is given at the table. Requested lengths can be manufactured. Please inform the length X.Y.Z when ordering.

Vertical Offset Element (Right) 3P+N+1/2 PE



GGD-A

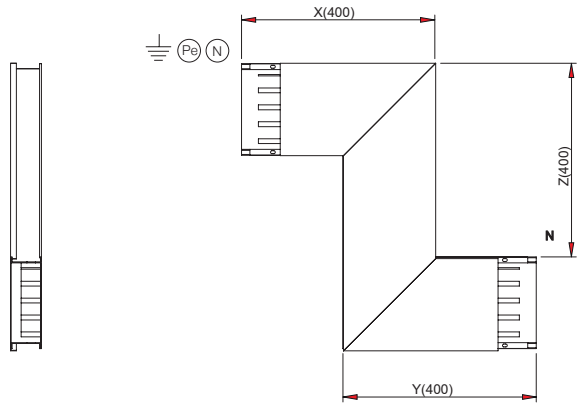
Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200126	812804005520050	160-400	9.468

GGD-C

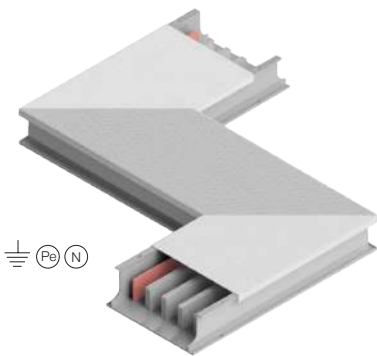
Order code	Stock code	A	Weight (Kg/Unit)
GGD-C 200126	822808005510051	160-800	20.071

Standard manufacturing length is given at the table. Requested lengths can be manufactured. Please inform the length X.Y.Z when ordering.

X - Min: 400mm. Max: 700mm
 Y - Min: 400mm. Max: 700mm
 Z - Min: 400mm. Max: 700mm



90° Vertical Offset Element (Left) 3P+N+1/2 PE



GGD-A

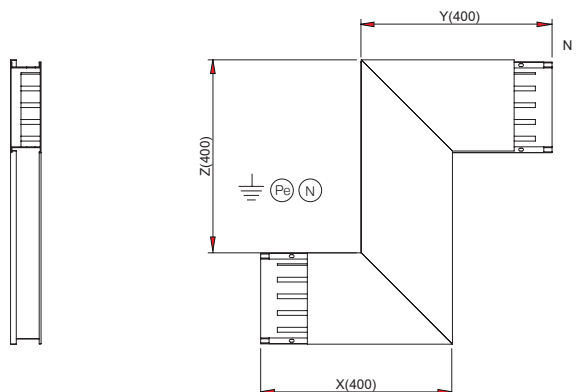
Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200125	812804005520051	160-400	9.468

GGD-C

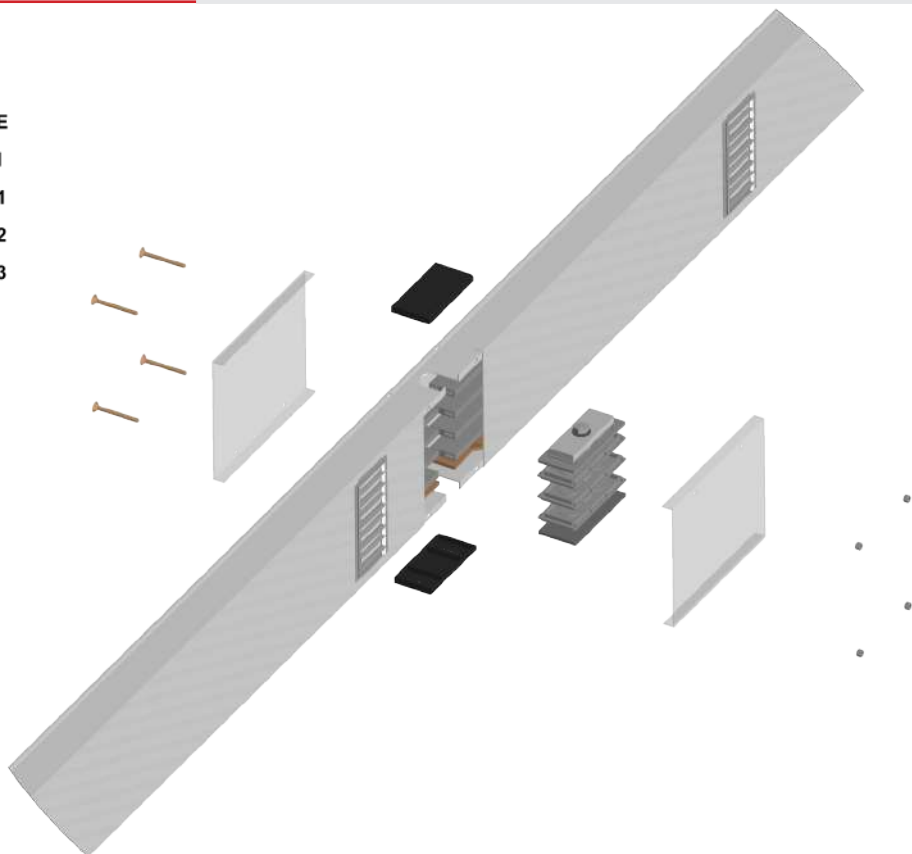
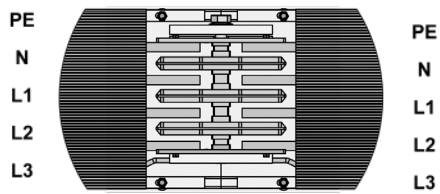
Order code	Stock code	A	Weight (Kg/Unit)
GGD-C 200126	822808005510052	160-800	20.071

Standard manufacturing length is given at the table. Requested lengths can be manufactured. Please inform the length X.Y.Z when ordering.

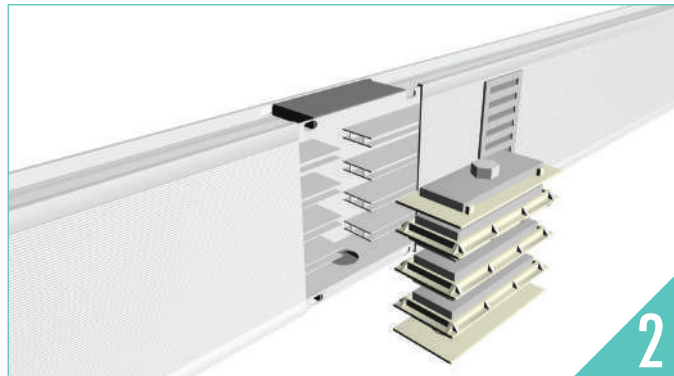
X - Min: 400mm. Max: 700mm
 Y - Min: 400mm. Max: 700mm
 Z - Min: 400mm. Max: 700mm



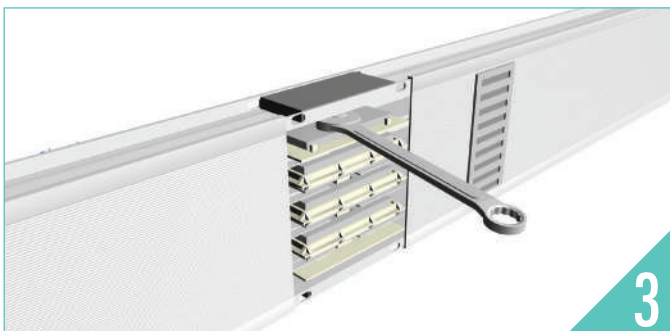
MEDIUM POWER BUSBAR TRUNKING SYSTEMS



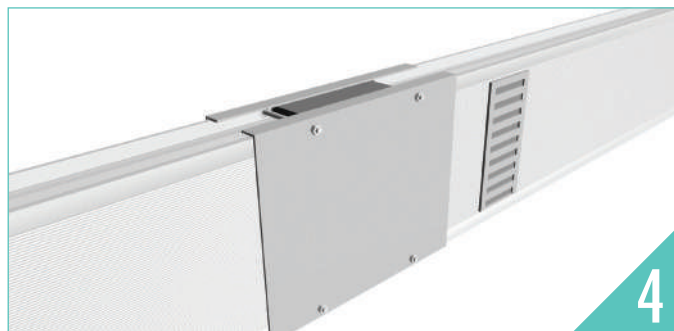
1) Assemble side covers of joint points.



2) Prepare the monoblock joint element to install.



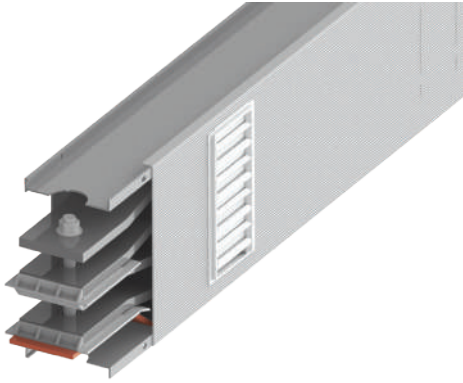
3) Tighten joint elements screw with torque wrench according to specified value.



4) Assemble screws and nuts of joint covers and tighten.

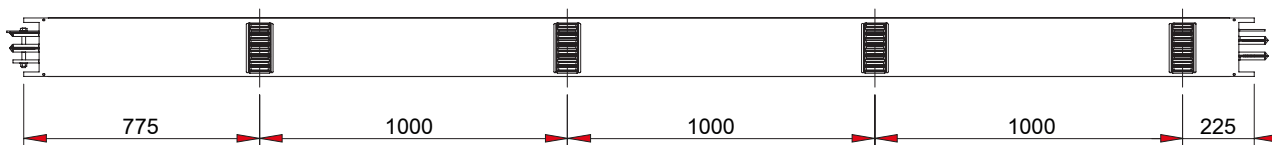
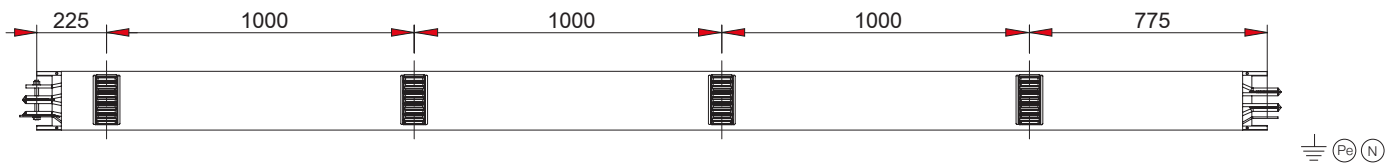
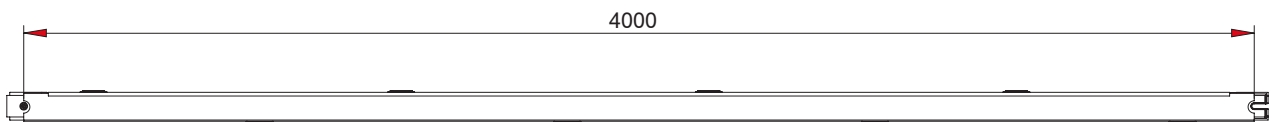
GGDA 160-400A : 30 Nm
GGDC 160-800A : 60 Nm

Standard Length Element 3P+N+1/2 Pe



GGD-A

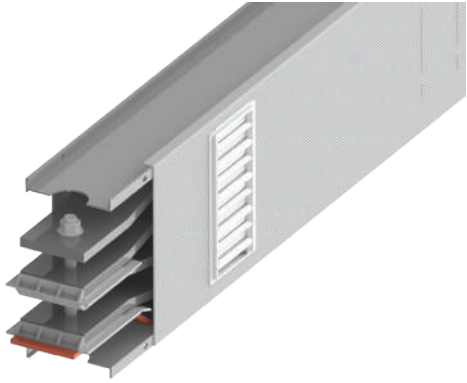
Order code	Stock code	A	mm	Weight (Kg/m)
GGD-A 205000	810105005524050	500	4000	10.604
GGD-A 206000	810106305524050	630	4000	10.604
GGD-A 208000	810108005524050	800	4000	11.735
GGD-A 210000	810110005524050	1000	4000	12.886



* Standard element is IP50. Please inform the access ories for IP55 when ordering

MEDIUM POWER BUSBAR TRUNKING SYSTEMS

Non-Standard Length Element 3P+N+1/2 Pe N

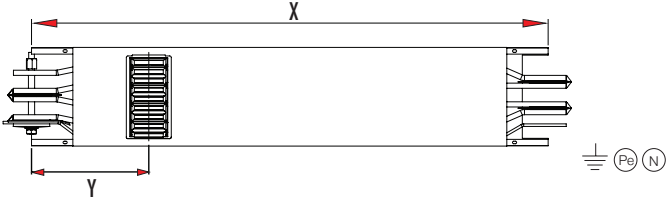


Min X : 400 mm
Min X : 3999 mm

Please inform X.Y length when ordering.

GGD-A

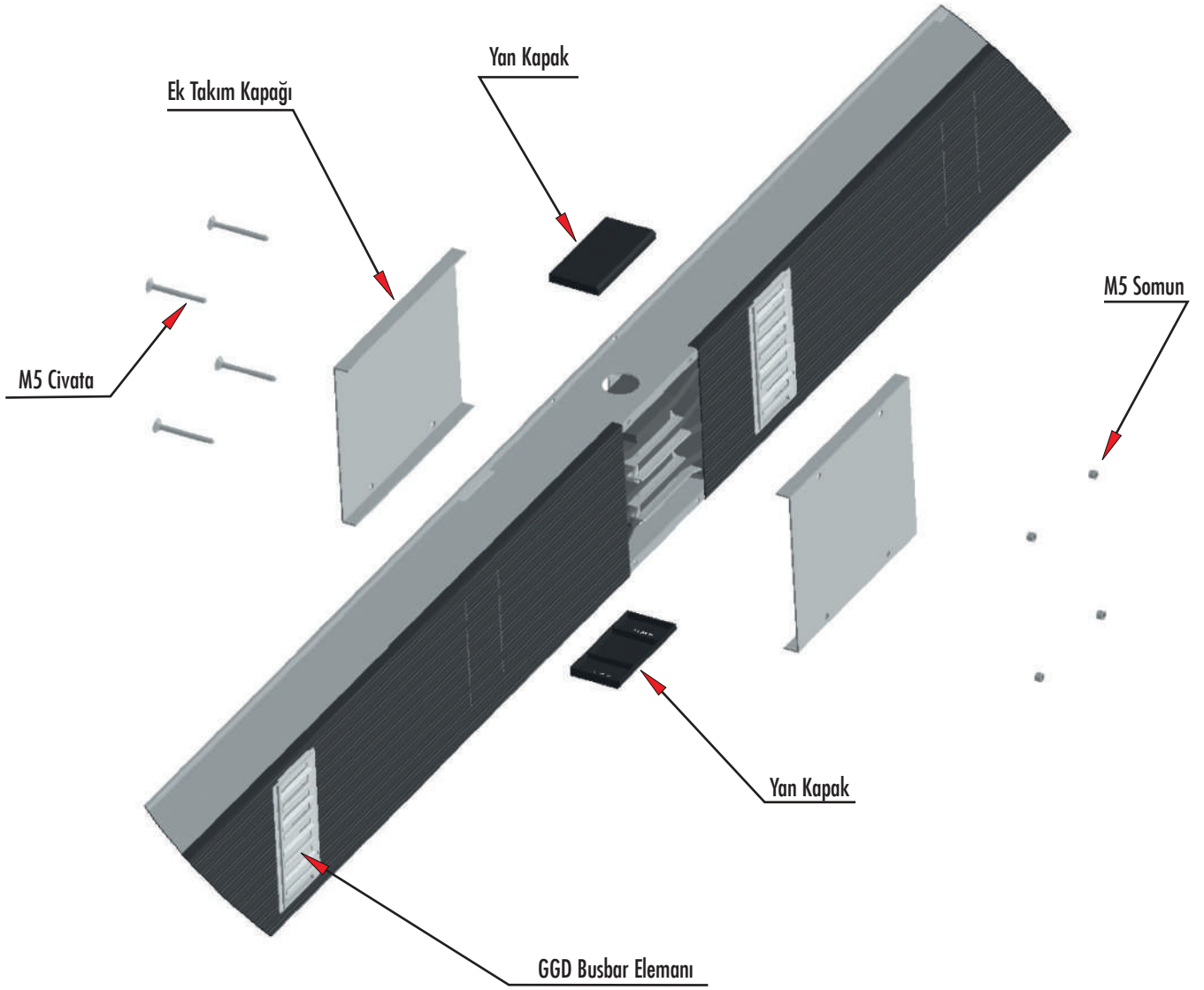
Order code	Stock code	A	Weight (Kg/m)
GGD-A 205001	810305005521050	500	10.604
GGD-A 206001	810306305521050	630	10.604
GGD-A 208001	810308005521050	800	11.735
GGD-A 210001	810310005521050	1000	12.886



Min X-Y=775 mm Min Y=225 mm

* Standard element is IP50. Please inform the accessories for IP55 when ordering

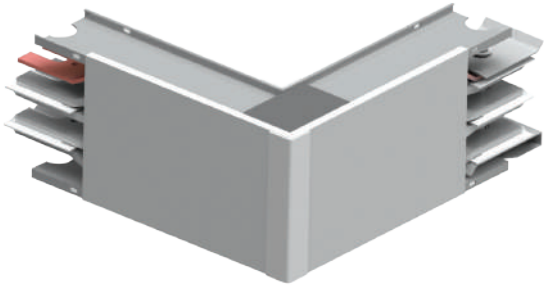




MEDIUM POWER BUSBAR TRUNKING SYSTEMS

90° Horizontal Elbow Element (Right) 3P+N+1/2 PE

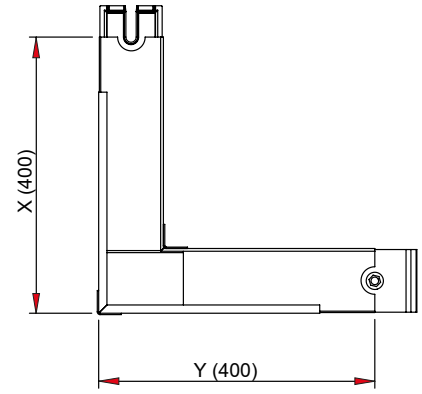
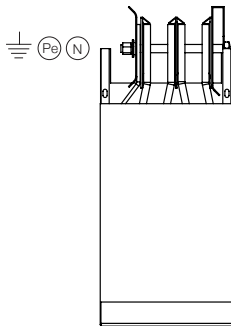
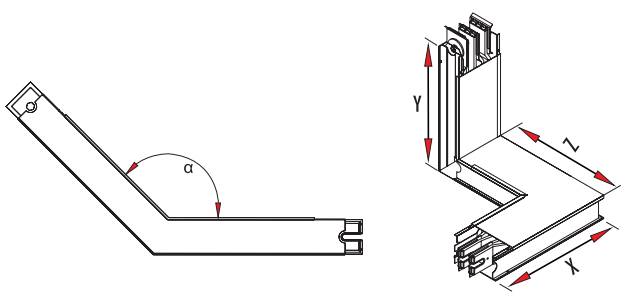
⏚ (Pe) (N)



GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200106	811208005520050	500-1000	11.900

X - Min: 400mm. Max: 800 mm
 Y - Min: 400mm. Max: 800 mm
 Z - Min: 400 mm



Please inform your request for special angle or vertical + horizontal elbow combinations.

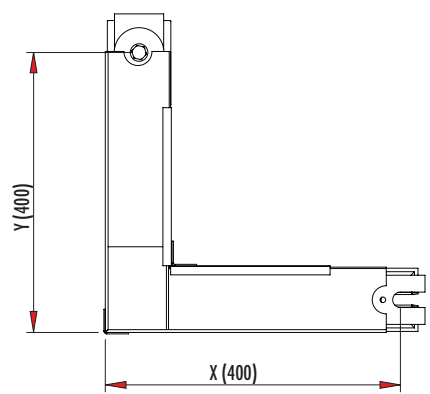
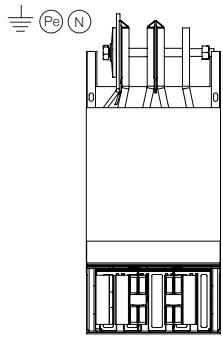
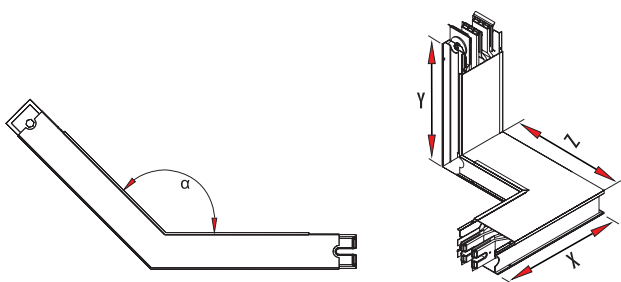
90° Horizontal Elbow Element (Left) 3P+N+1/2 PE

GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200105	811108005520050	500-1000	11.900

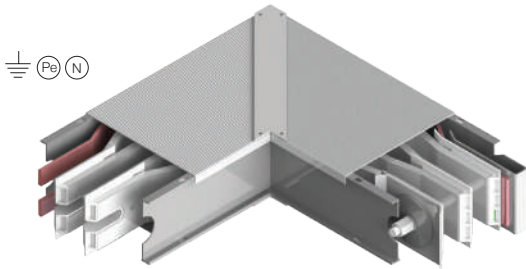
X - Min: 400mm. Max: 800 mm
 Y - Min: 400mm. Max: 800 mm
 Z - Min: 400 mm

⏚ (Pe) (N)



Please inform your request for special angle or vertical + horizontal elbow combinations.

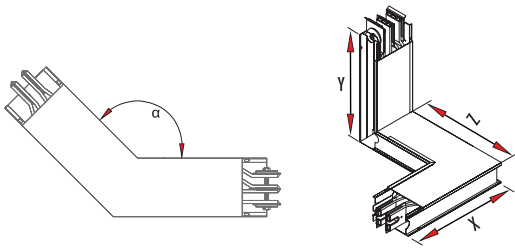
90° Vertical Elbow Element (Right) 3P+N+1/2 PE



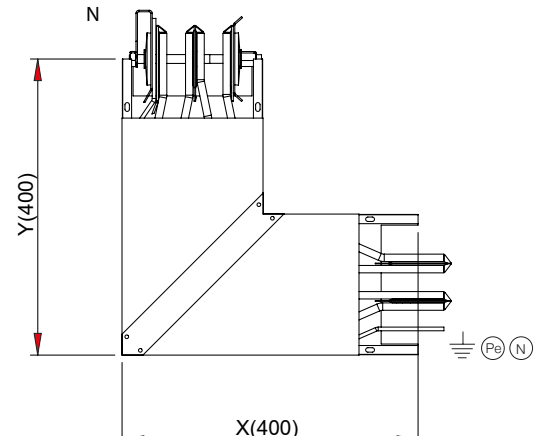
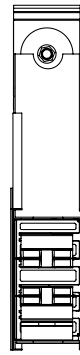
GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200108	811408005520050	500-1000	9.100

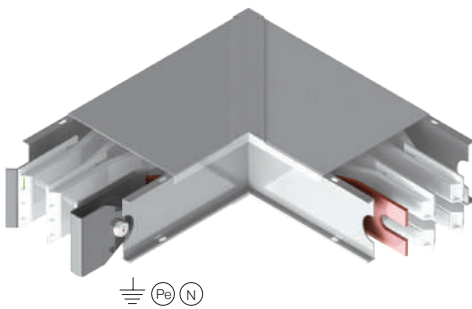
X - Min: 400 mm. Max: 800 mm
 Y - Min: 400 mm. Max: 800 mm
 Z - Min: 400 mm



Please inform your request for special angle or vertical + horizontal elbow combinations.



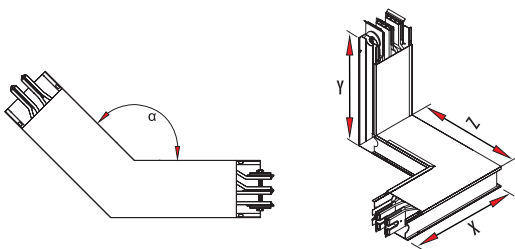
90° Vertical Elbow Element (Left) 3P+N+1/2 PE



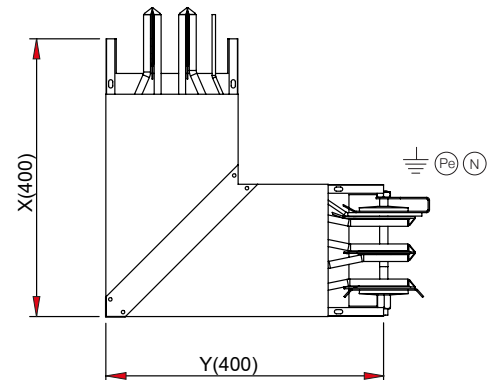
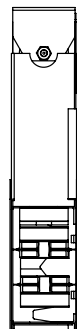
GGD-A

Order code	Stok kodu Stock code	A	Weight (Kg/Unit)
GGD-A 200107	811308005520050	500-1000	9.100

X - Min: 400 mm. Max: 800 mm
 Y - Min: 400 mm. Max: 800 mm
 Z - Min: 400 mm

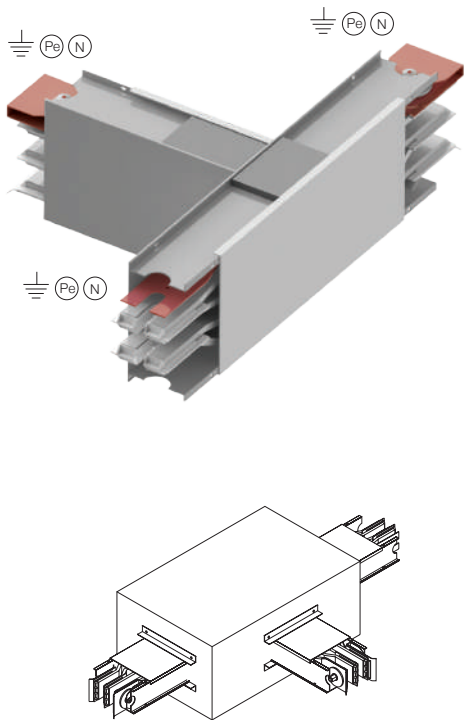


Please inform your request for special angle or vertical + horizontal elbow combinations.



MEDIUM POWER BUSBAR TRUNKING SYSTEMS

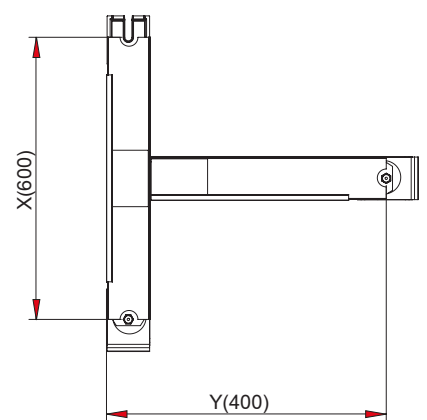
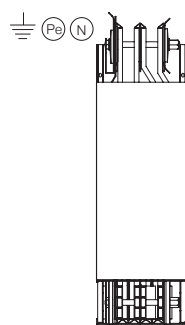
T Element (Right) 3P+N+1/2 PE



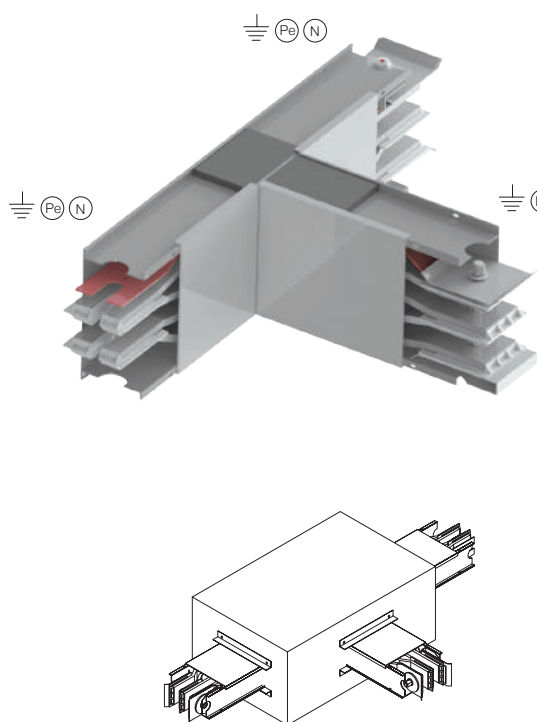
GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200112	811608005520050	500-1000	14.200

X - Min: 600 mm. Max: 1000 mm
Y - Min: 400 mm. Max: 800 mm



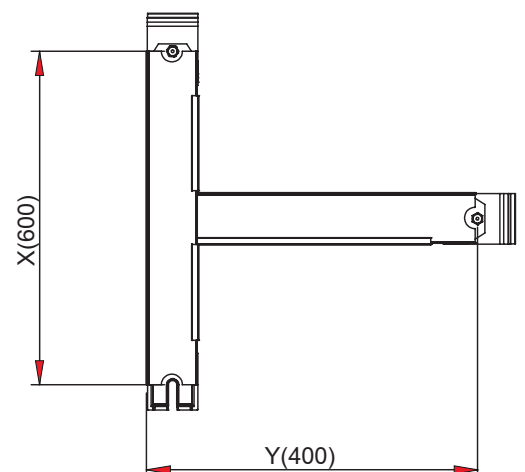
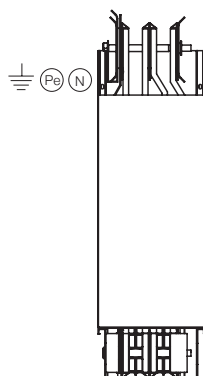
T Element (Left) 3P+N+1/2 PE



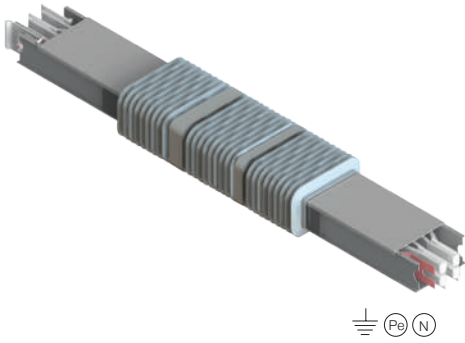
GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200110	811508005520050	500-1000	14.200

X - Min: 600 mm. Max: 1000 mm
Y - Min: 400 mm. Max: 800 mm



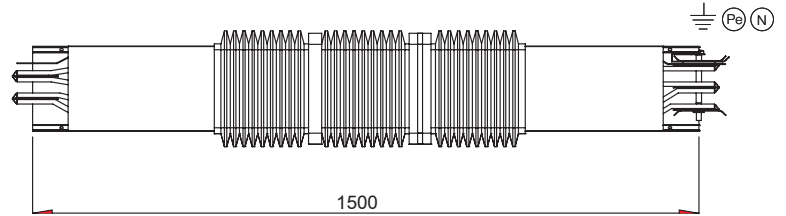
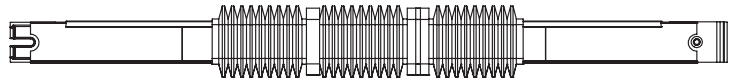
Mechanical Dilatation Element 3P+N+1/2 PE



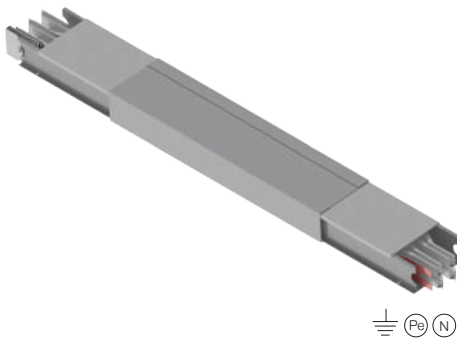
The expansion joint element must be inserted where there are structural expansion of the building.

GGD-A

Order code	Stok kodu Stock code	A	Weight (Kg/Unit)
GGD-A 210009	813110005520050	500-1000	27.000



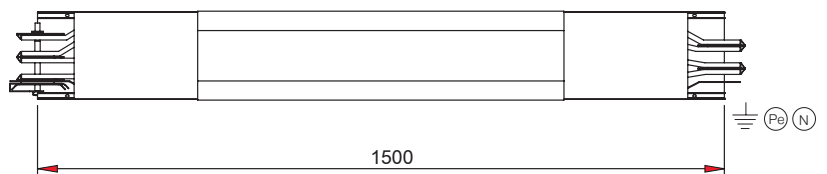
Horizontal Expansion Element 3P+N+1/2 PE



The expansion joint element must be inserted 1 in long straight line every ~ 40 meter.

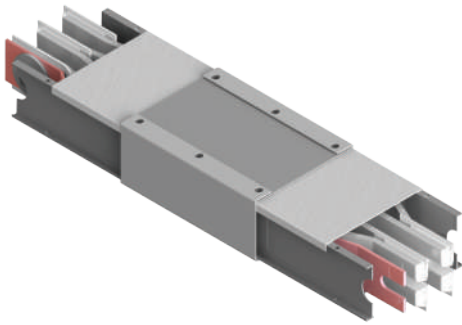
GGD-A

Order code	Stok kodu Stock code	A	Weight (Kg/Unit)
GGD-A 210011	813110005520052	500-1000	26.700



MEDIUM POWER BUSBAR TRUNKING SYSTEMS

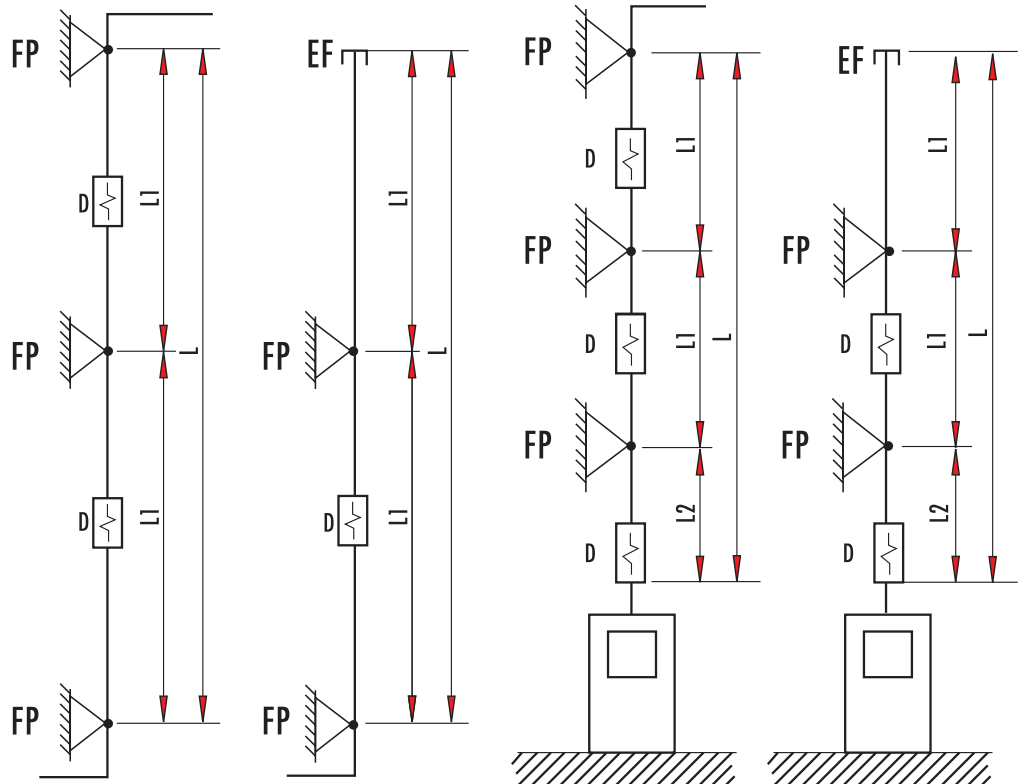
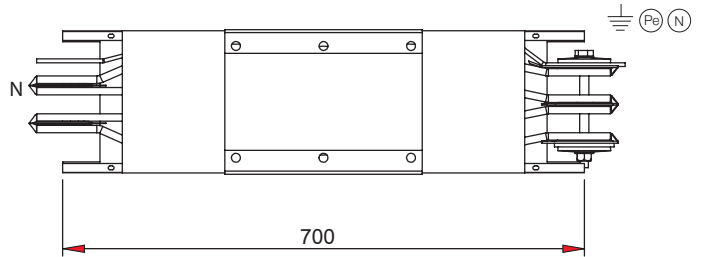
Vertical Expansion Element 3P+N+1/2 PE



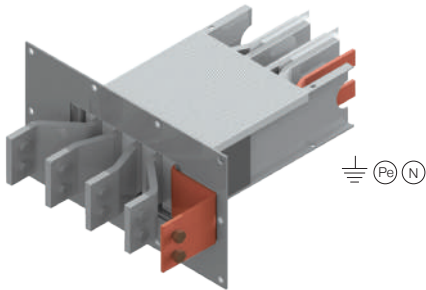
⏚ (Pe) (N)

GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 210010	813110005520051	500-1000	11.200



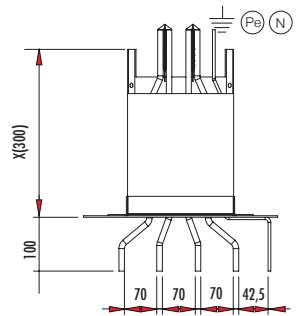
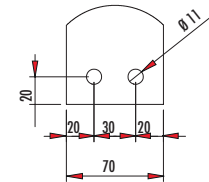
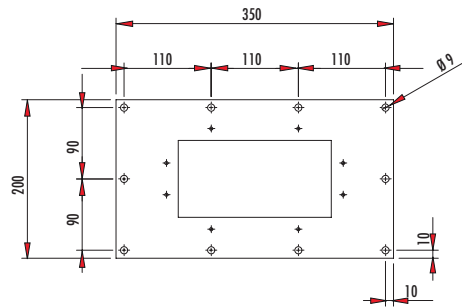
Switchboard Feed Unit (Right) 3P+N+1/2 PE



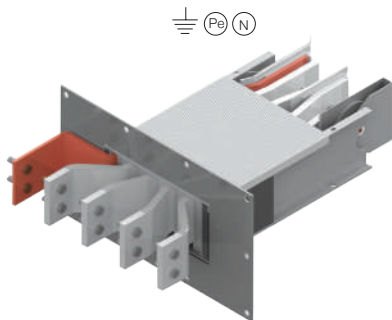
GGD-A

Order code	Stok kodu Stock code	A	Weight (Kg/Unit)
GGD-A 200031	811808005520050	500-1000	6.800

X - Min: 300 mm. Max: 700 mm



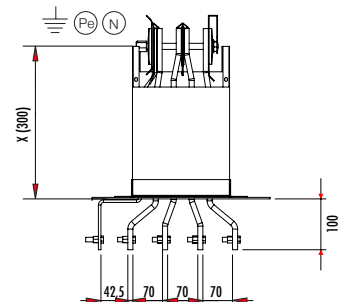
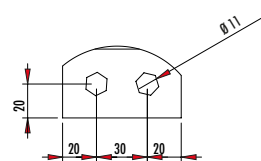
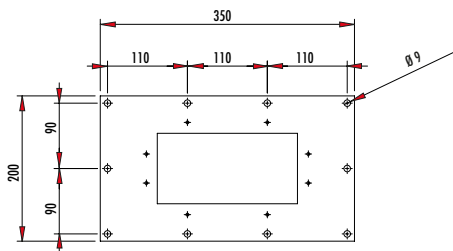
Switchboard Feed Unit (Left) 3P+N+1/2 PE



GGD-A

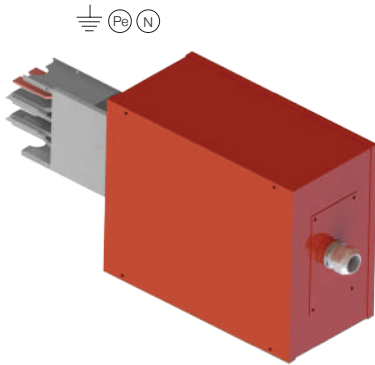
Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200033	811708005520050	500-1000	7.100

X - Min: 300 mm. Max: 700 mm



MEDIUM POWER BUSBAR TRUNKING SYSTEMS

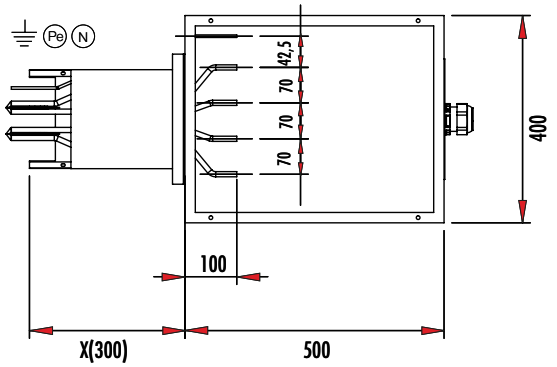
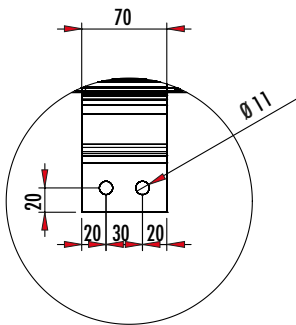
Feed Unit (Right) 3P+N+1/2 PE



GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200023	812008005520050	500-1000	18.700

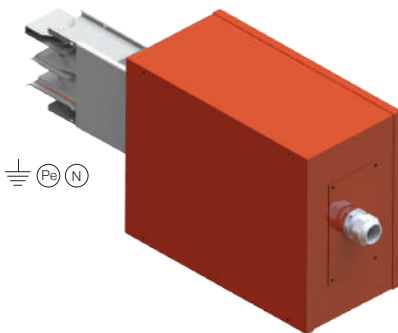
X - Min: 300 mm. Max: 700 mm



It is available to use with circuit breaker. Please inform this when ordering.

Please specify cable dimensions for feed unit box's cable glands.

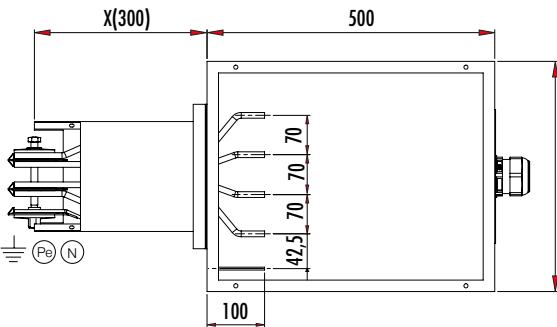
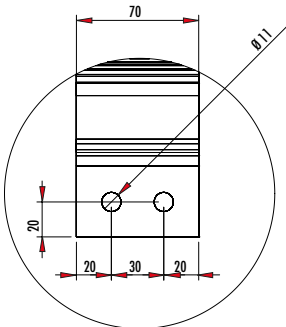
Feed Unit (Left) 3P+N+1/2 PE



GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200022	811908005520050	500	19.480

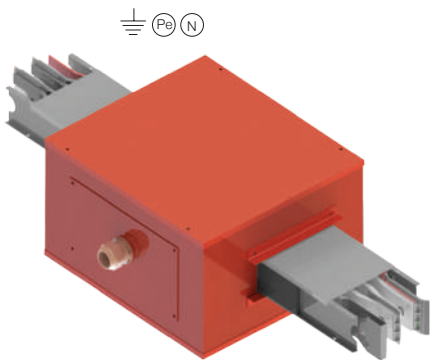
X - Min: 300 mm. Max: 700 mm



It is available to use with circuit breaker. Please inform this when ordering.

Please specify cable dimensions for feed unit box's cable glands.

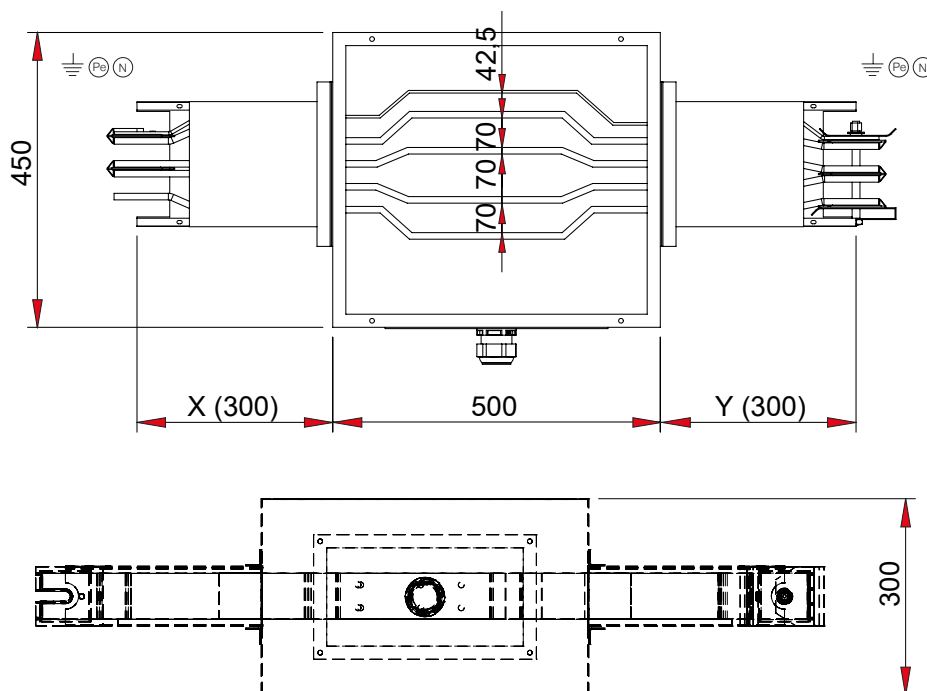
Centre Feed Unit 3P+N+1/2 PE



GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200025	812108005520050	500-1000	29.800

X - Min: 300 mm. Max: 700 mm
Y - Min: 300 mm. Max: 700 mm

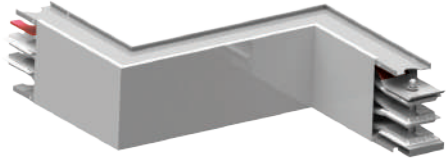


It is available to use with circuit breaker. Please inform this when ordering.

Please specify cable dimensions for feed unit box's cable glands.

MEDIUM POWER BUSBAR TRUNKING SYSTEMS

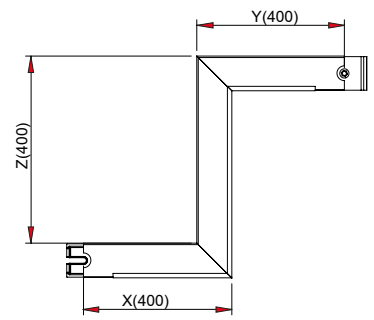
90° Horizontal Offset Element (Right) 3P+N+1/2 PE



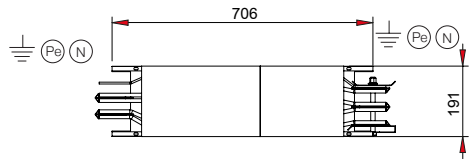
GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200128	812710005520050	500-1000	18.272

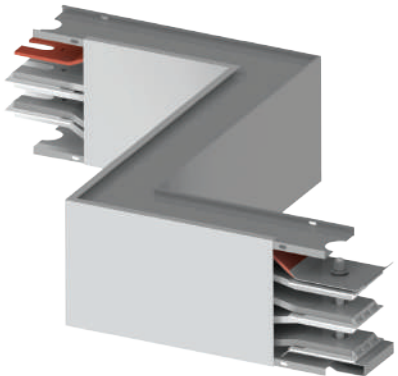
X - Min: 400mm. Max: 700mm
 Y - Min: 400mm. Max: 700mm
 Z - Min: 400mm. Max: 700mm



Standard manufacturing length is given at the table. Requested lengths can be manufactured. Please inform the length X.Y.Z when ordering.



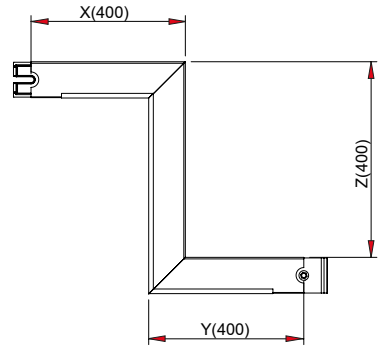
90° Horizontal Offset Element (Left) 3P+N+1/2 PE



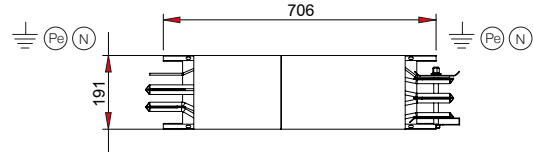
GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200127	812710005520051	500-1000	18.272

X - Min: 400mm. Max: 700mm
 Y - Min: 400mm. Max: 700mm
 Z - Min: 400mm. Max: 700mm



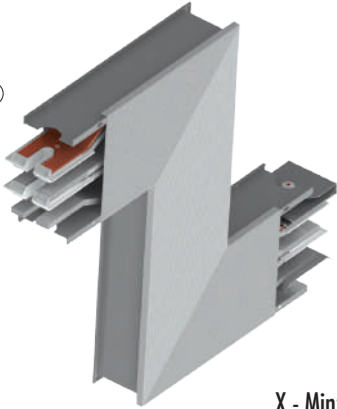
Standard manufacturing length is given at the table. Requested lengths can be manufactured. Please inform the length X.Y.Z when ordering.



90° Vertical Offset Element (Right) 3P+N+1/2 PE

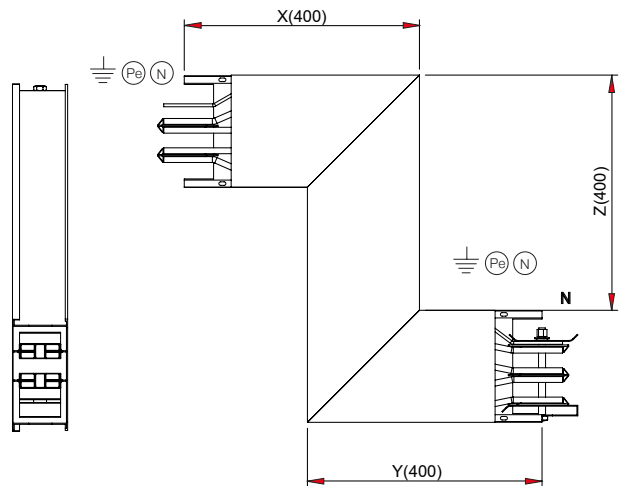
GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200130	812810005520050	500-1000	15.710



X - Min: 400mm. Max: 700mm
 Y - Min: 400mm. Max: 700mm
 Z - Min: 400mm. Max: 700mm

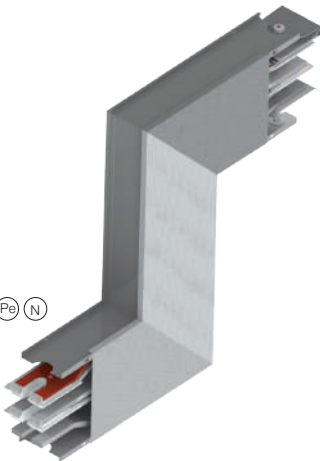
Standard manufacturing length is given at the table. Requested lengths can be manufactured. Please inform the length X.Y.Z when ordering.



90° Vertical Offset Element (Left) 3P+N+1/2 PE

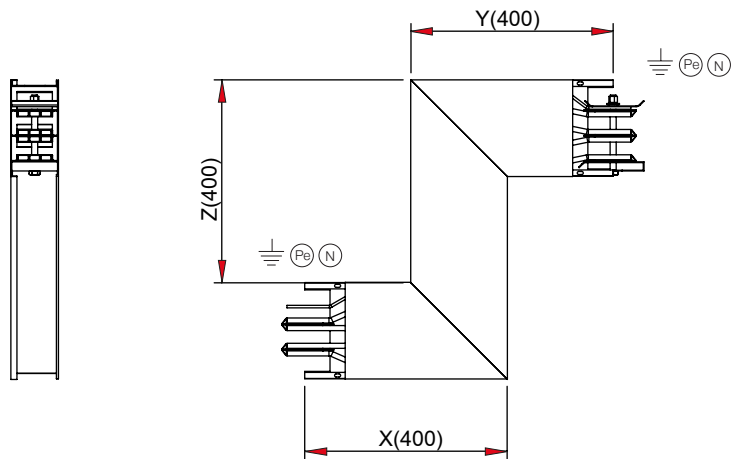
GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 200129	812810005520051	500-1000	15.710

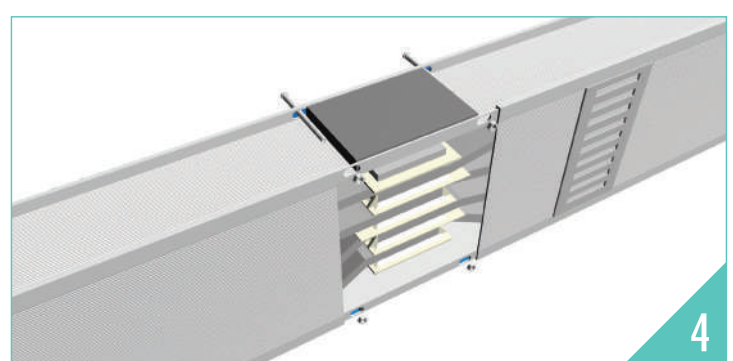
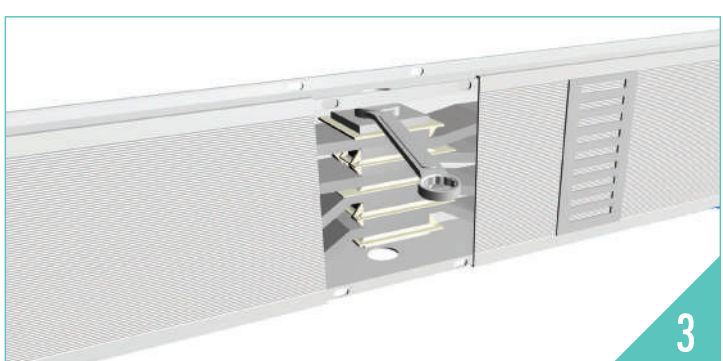
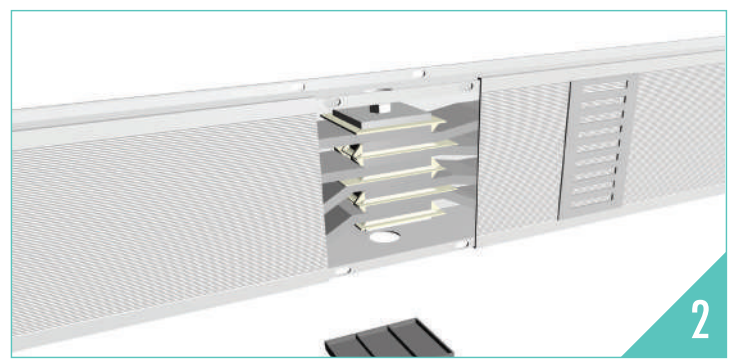
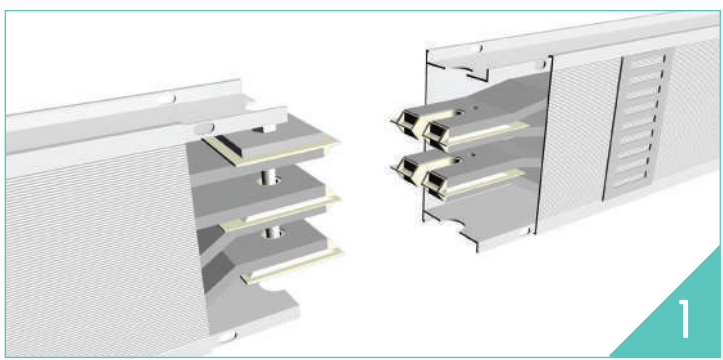
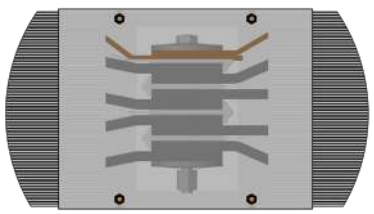
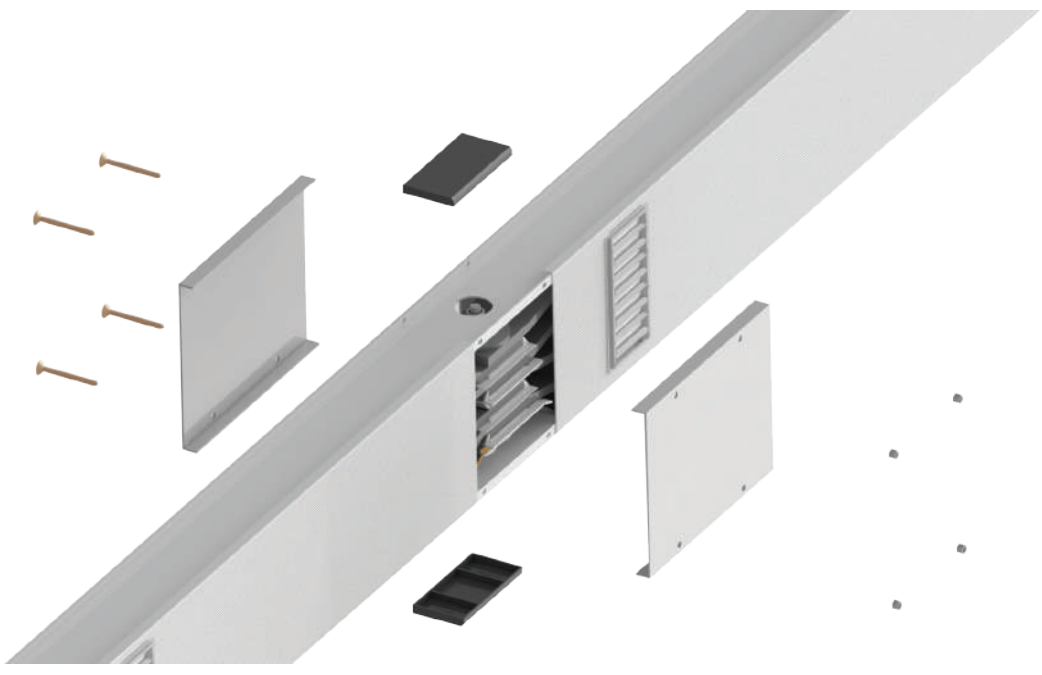
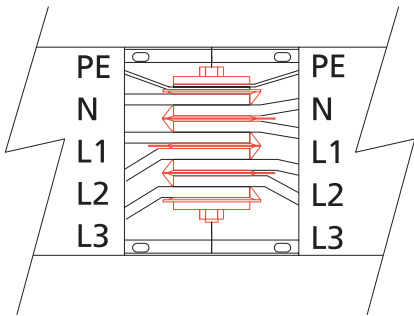


X - Min: 400mm. Max: 700mm
 Y - Min: 400mm. Max: 700mm
 Z - Min: 400mm. Max: 700mm

Standard manufacturing length is given at the table. Requested lengths can be manufactured. Please inform the length X.Y.Z when ordering.

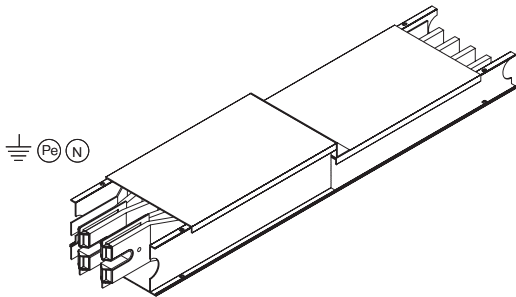


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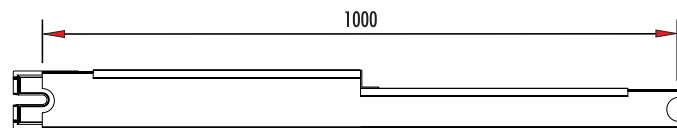
GGDA 500-1000A : 90Nm

Reduction Element 3P+N+1/2 PE

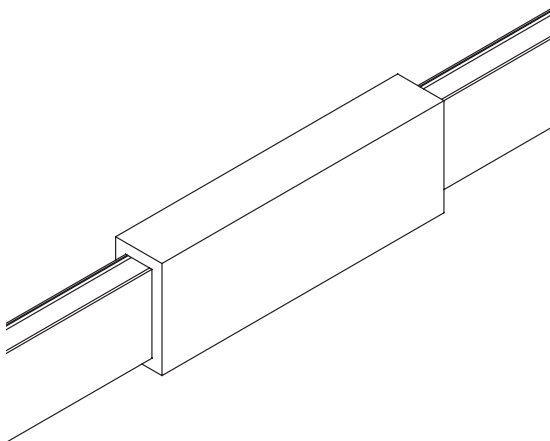


GGD-A

Order code	Stock code	A	Weight (Kg/Unit)
GGD-A RED01	812904005520050	400-1000	11.748
GGD-A RED02	812910005520050	400-1000	11.748



Fire Barrier 3P+N+1/2 PE



GGD-A

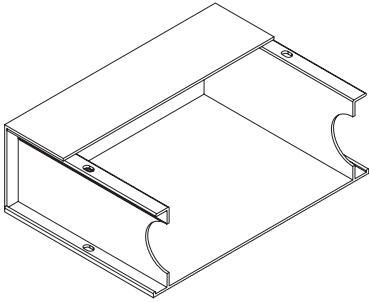
Order code	Stock code	A	Weight (Kg/Unit)
GGD-A 204006	812204005520050	160-400	9.000
GGD-A 210006	812210005520050	500-1000	9.000

GGD-C

Order code	Stock code	A	Weight (Kg/Unit)
GGD-C 208006	822208005510051	160-800	9.000

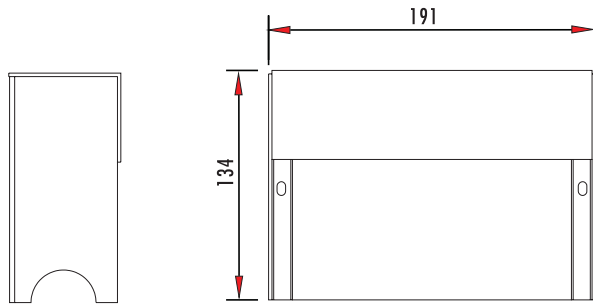
MEDIUM POWER BUSBAR TRUNKING SYSTEMS

End Cap



For GGDC 160-180 A Busbar. end cap use with GGD 100028 order code.

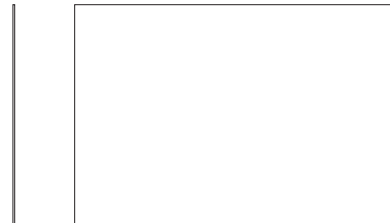
Order code	Stock code	A	Weight (Kg/Unit)
GGD 100028	830704005520000	160-400	0.450
GGD 100029	830710005520000	500-1000	0.530



GGD IP 55 Sticky Plug Outlet Cover



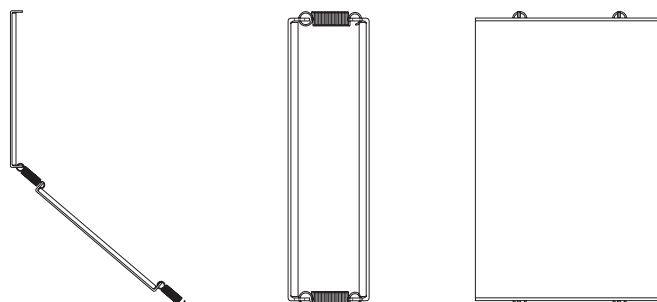
Order code	Stock code	A	Weight (Kg/Unit)
GGD 500002	830810005550000	160-1000	0.001



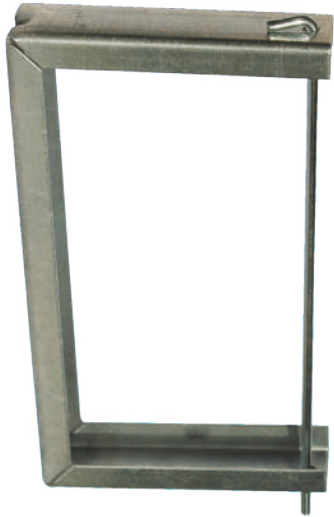
GGD IP 55 Outlet Cover



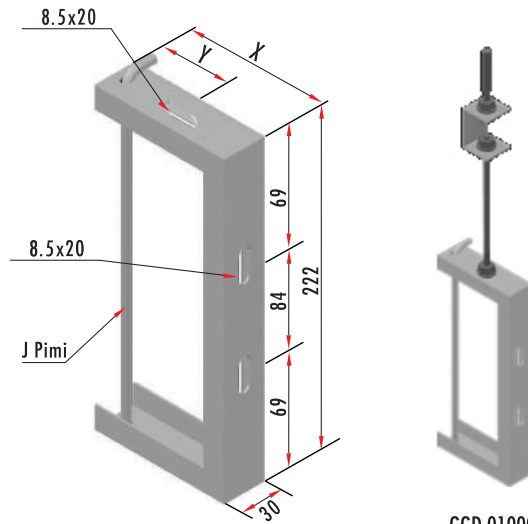
Order code	Stock code	A	Weight (Kg/Unit)
GGD 500003	830910005520000	160-1000	0.500



GGD fixing hanger

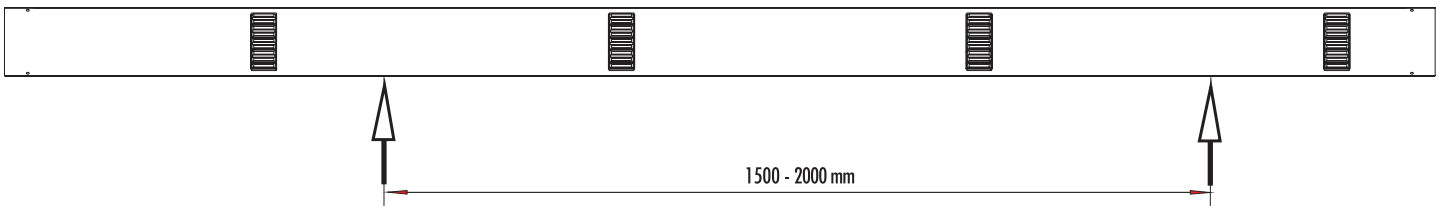
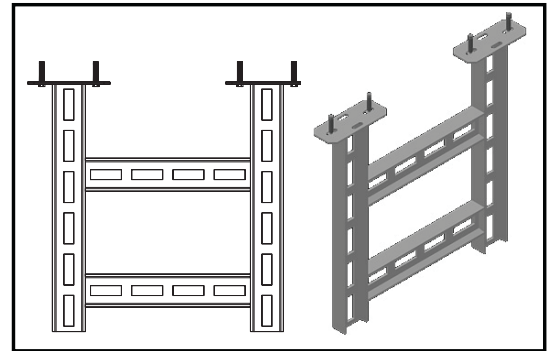
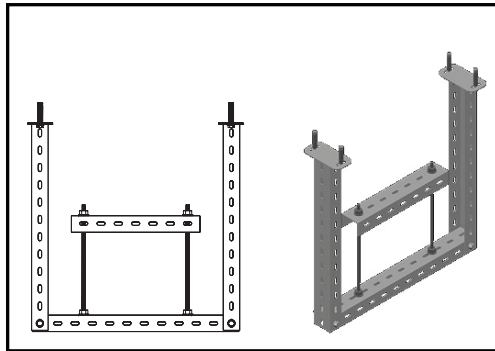
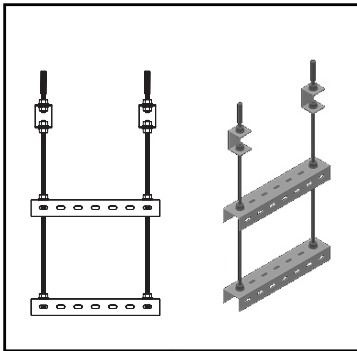


Order code	Stock code	A	X mm	Y mm	Weight (Kg/Unit)
GGD 010001	830504000060003	160-400	97	50	0.450
GGD 020001	830510000060003	500-1000	126	65	0.530
GGD 010004	830504000060004	160-400	-	-	0.830
GGD 010005	830510000060004	500-1000	-	-	0.880



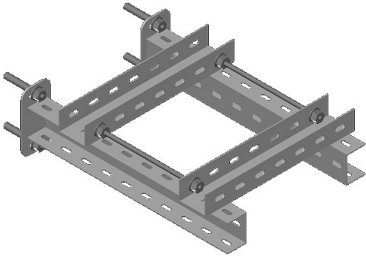
For GGDC 160-180 A Busbar. end cap use with GGD 010001 order code.

GGD 010004
GGD 010005

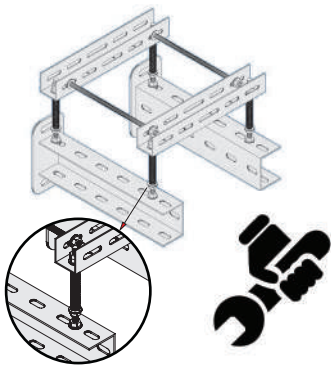
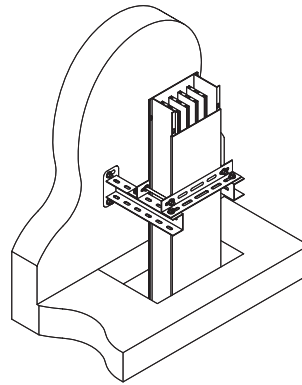


MEDIUM POWER BUSBAR TRUNKING SYSTEMS

GGD hanger for vertical riser



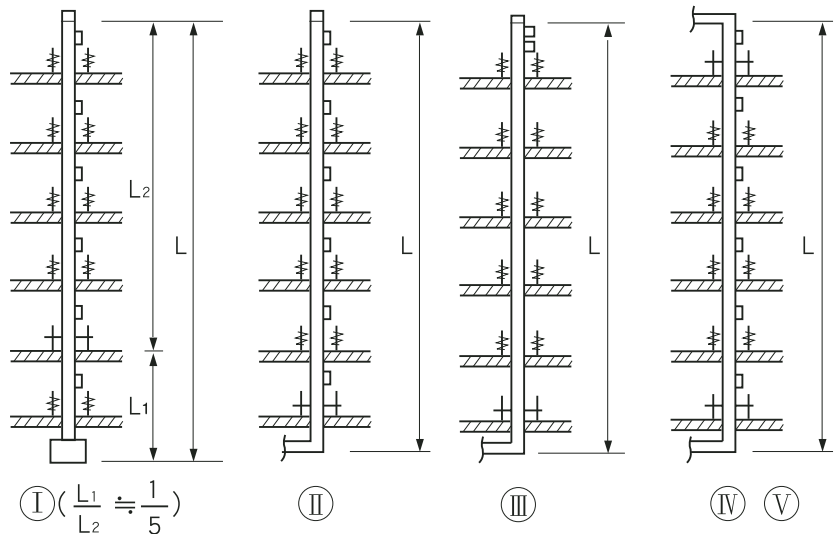
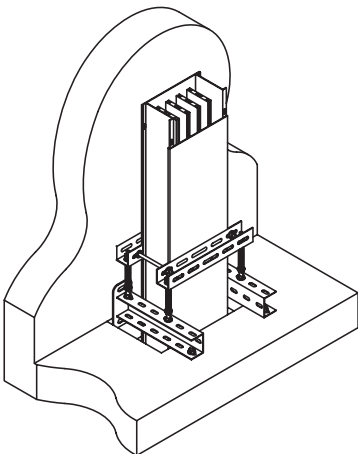
Order code	Stock code	A	Weight (Kg/Unit)
GGD 010002	831004005560003	160-400	5.350
GGD 010003	831010005560003	500-1000	5.750



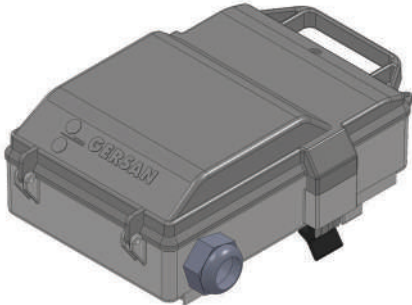
Balance the weight by adjustment nut.

One spring hanger for vertical risers must be used, in addition of universal fixing hangers, in each vertical riser and every 150 kg. of busway.

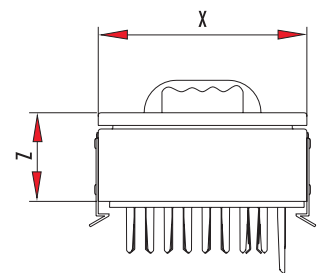
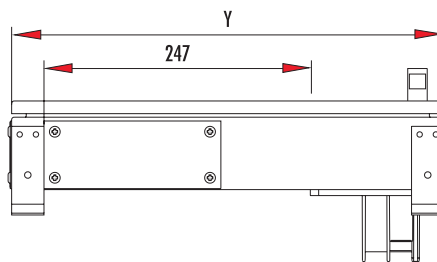
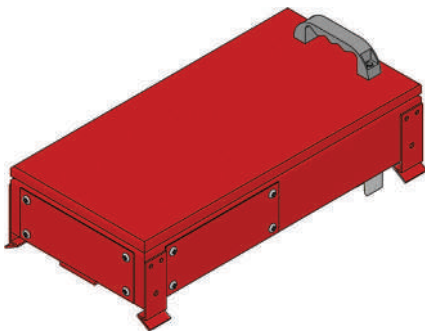
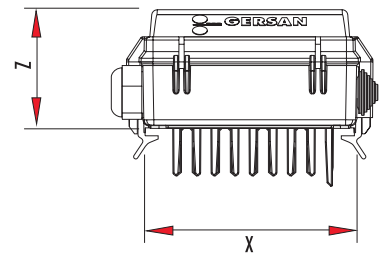
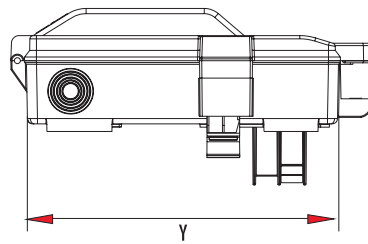
(L)				
I	II	III	IV	V
≤120(m)	≤90(m)	≤30(m)	≤30(m)	≤15(m)



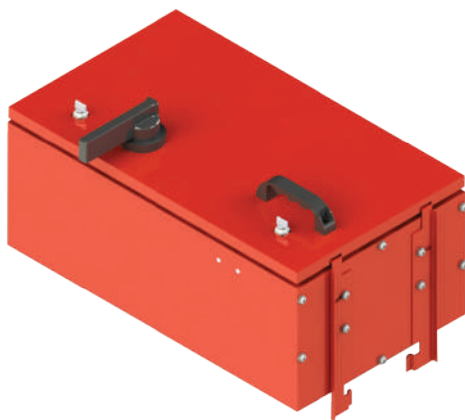
Tap-off Box NH Type



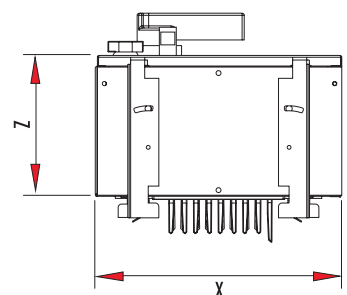
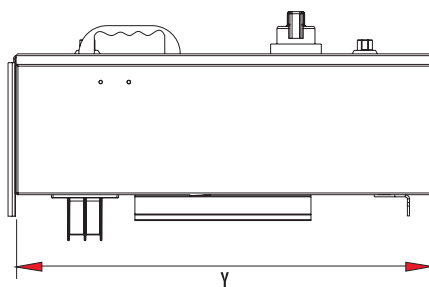
Order code	Stock code	A	X mm	Y mm	Z mm	Weight (Kg/Unit)
GGD 400631	832500635510051	25-80	191	300	97	2.622
GGD 401251	832501255510051	25-125	193	400	125	5.757



Tap-off Box SPB Type



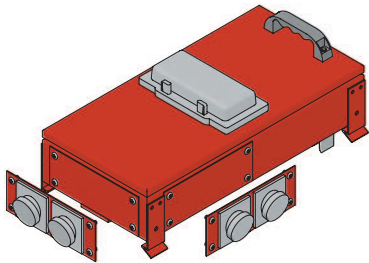
Order code	Stock code	A	X mm	Y mm	Z mm	Weight (Kg/Unit)
GGD 401160	832401605510051	160	350	600	200	17.940
GGD 402500	832402505510051	250	400	700	300	25.250
GGD 404000	832404005510051	400	400	700	300	27.000
GGD 406300	832406305510051	630	450	700	300	33.179



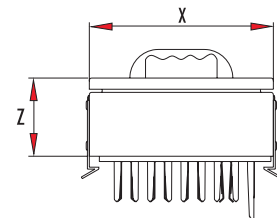
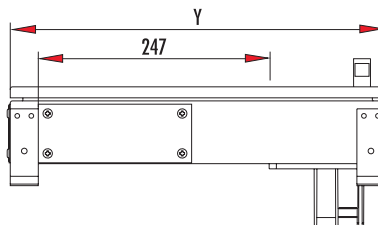
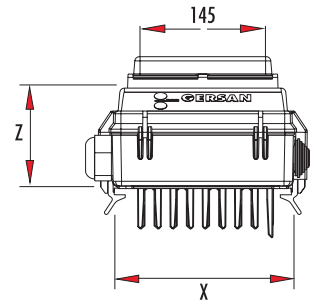
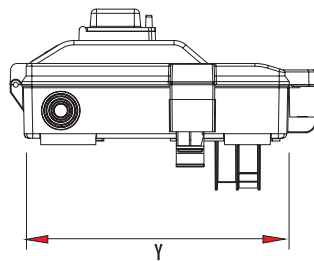
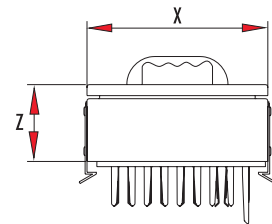
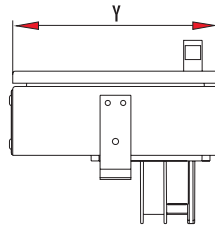
The weights are not including MCB, NH, and MCCB's

MEDIUM POWER BUSBAR TRUNKING SYSTEMS

Tap-Off Box MCB Type



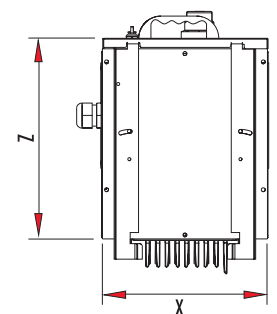
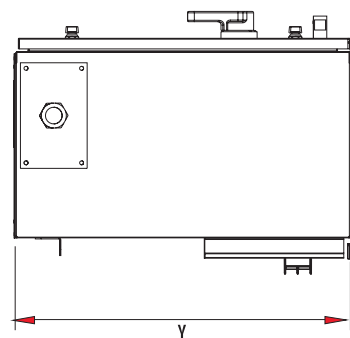
Order code	Stock code	A A	X mm	Y mm	Z mm	Weight (Kg/Unit)
GGD 400630	832600635510050	25-40	193	175	92	2.770
GGD 400632	832600635510051	25-80	191	300	97	2.163
GGD 401252	832601255510051	25-125	193	400	82	5.757



Tap-off Box MCCB Version



Order code	Stock code	A A	X mm	Y mm	Z mm	Weight (Kg/Unit)
GGD 401253	832601255510052	25-125	300	500	225	19.500
GGD 401162	832601605510051	160	300	600	225	20.020
GGD 402502	832602505510051	250	300	600	225	21.320
GGD 404002	832604005510051	400	300	700	300	27.440
GGD 406302	832606305510051	630	300	700	300	27.440



The weights are not including MCB, NH, and MCCB's

GGDA Technical Details

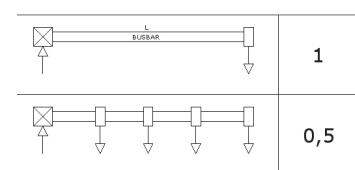
		GGDA 160A	GGDA 250A	GGDA 315A	GGDA 400A	GGDA 500A	GGDA 630A	GGDA 800A	GGDA 1000A	
Rated Current	I_n	160	250	315	400	500	630	800	1000	A
Operational Voltage	U_e	1000								V
Insulation Voltage	U_i	1000								V
Frequency	f	50-60 (AC/DC)								Hz
Cross Section of Phases	S_F	144	144	144	144	500	500	600	700	mm ²
Cross Section of Neutral	S_N	144	144	144	144	500	500	600	700	mm ²
Cross Section of Earth Bar	S_H	200	200	200	200	350	350	350	350	mm ²
Cross Section of Aluminium Housing	S_{PE}	1083	1083	1083	1083	1200	1200	1200	1200	mm ²
Short-Circuit Current of Phases (1s)	I_{cw}	13	13	13	13	25	25	35	40	kA
Peak Current of Phases	I_{pk}	26	26	26	26	53	53	80	90	kA
Short-Circuit Current of Neutral (1s)	I_{cw}	8	8	8	8	15	15	22	24	kA
Peak Current of Neutral	I_{pk}	14	16	14	14	30	30	44	50	kA
Phase Resistance ($T=20^\circ C$)	R_{20}	0.193	0.193	0.193	0.193	0.058	0.058	0.048	0.041	mΩ/m
Phase Resistance	R_1	0.338	0.338	0.338	0.338	0.098	0.098	0.080	0.045	mΩ/m
Phase Reactance	X_1	0.094	0.094	0.094	0.094	0.014	0.014	0.010	0.007	mΩ/m
Phase Impedance	Z_1	0.351	0.351	0.351	0.351	0.099	0.099	0.080	0.046	mΩ/m

Voltage drop with concentrated end line load

$$\Delta V = \alpha \sqrt{3} I_n L (R \cos\varphi + X_l \sin\varphi) 10e-3$$

ΔV	Voltage drop (V)
α	Current distribution factor
L	Duct length (m)
I_n	Use current (A)
R	Phase resistance per unit length of the Busbar (m/m)
X_l	Phase reactance per unit length of the Busbar (m/m)
$\cos\varphi$	Average load power factor

Load Distribution Constant (α)



GGDC Technical Details

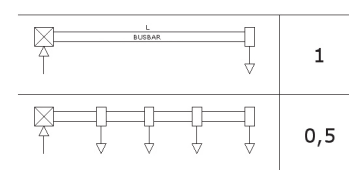
		GGDC 160A	GGDC 250A	GGDC 315A	GGDC 400A	GGDC 500A	GGDC 630A	GGDC 800A	
Rated Current	I_n	160	250	315	400	500	630	800	A
Operational Voltage	U_e	1000							V
Insulation Voltage	U_i	1000							V
Frequency	f	50-60 (AC/DC)							Hz
Cross Section of Phases	S_F	144	144	144	144	250	250	400	mm ²
Cross Section of Neutral	S_N	144	144	144	144	250	250	400	mm ²
Cross Section of Earth Bar	S_H	200	200	200	200	200	200	200	mm ²
Cross Section of Aluminium Housing	S_{PE}	1083	1083	1083	1083	1083	1083	1083	mm ²
Short-Circuit Current of Phases (1s)	I_{cw}	20	20	20	20	25	25	35	kA
Peak Current of Phases	I_{pk}	44	44	44	44	53	53	74	kA
Short-Circuit Current of Neutral (1s)	I_{cw}	12	12	12	12	15	15	22	kA
Peak Current of Neutral	I_{pk}	24	24	24	24	30	30	44	kA
Phase Resistance (T=20° C)	R_{20}	0.105	0.105	0.105	0.105	0.072	0.072	0.045	mΩ/m
Phase Resistance	R_1	0.138	0.138	0.138	0.138	0.108	0.108	0.068	mΩ/m
Phase Reactance	X_1	0.021	0.021	0.021	0.021	0.018	0.018	0.010	mΩ/m
Phase Impedance	Z_1	0.139	0.139	0.139	0.165	0.136	0.136	0.080	mΩ/m

Voltage drop with concentrated end line load

$$\Delta V = \alpha \sqrt{3} I_n L (R \cos\varphi + X_l \sin\varphi) 10e-3$$

ΔV	Voltage drop (V)
α	Current distribution factor
L	Duct length (m)
I_n	Use current (A)
R	Phase resistance per unit length of the Busbar (m/m)
X_l	Phase reactance per unit length of the Busbar (m/m)
$\cos\varphi$	Average load power factor

Load Distribution Constant (α)





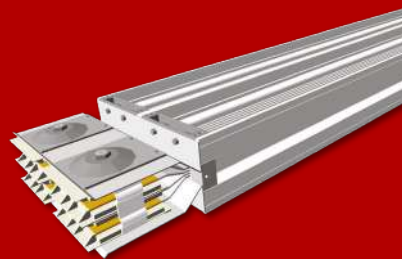
BUSBAR TRUNKING SYSTEMS



ISO 9001 / ISO 14001
ISO 45001

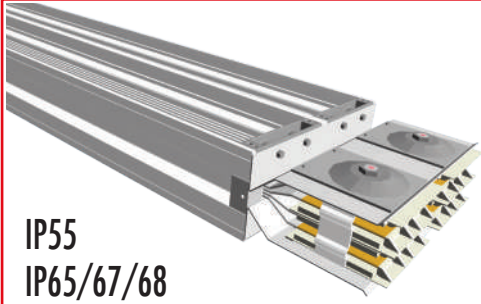


GS-SUPER COMPACT



400-6300A

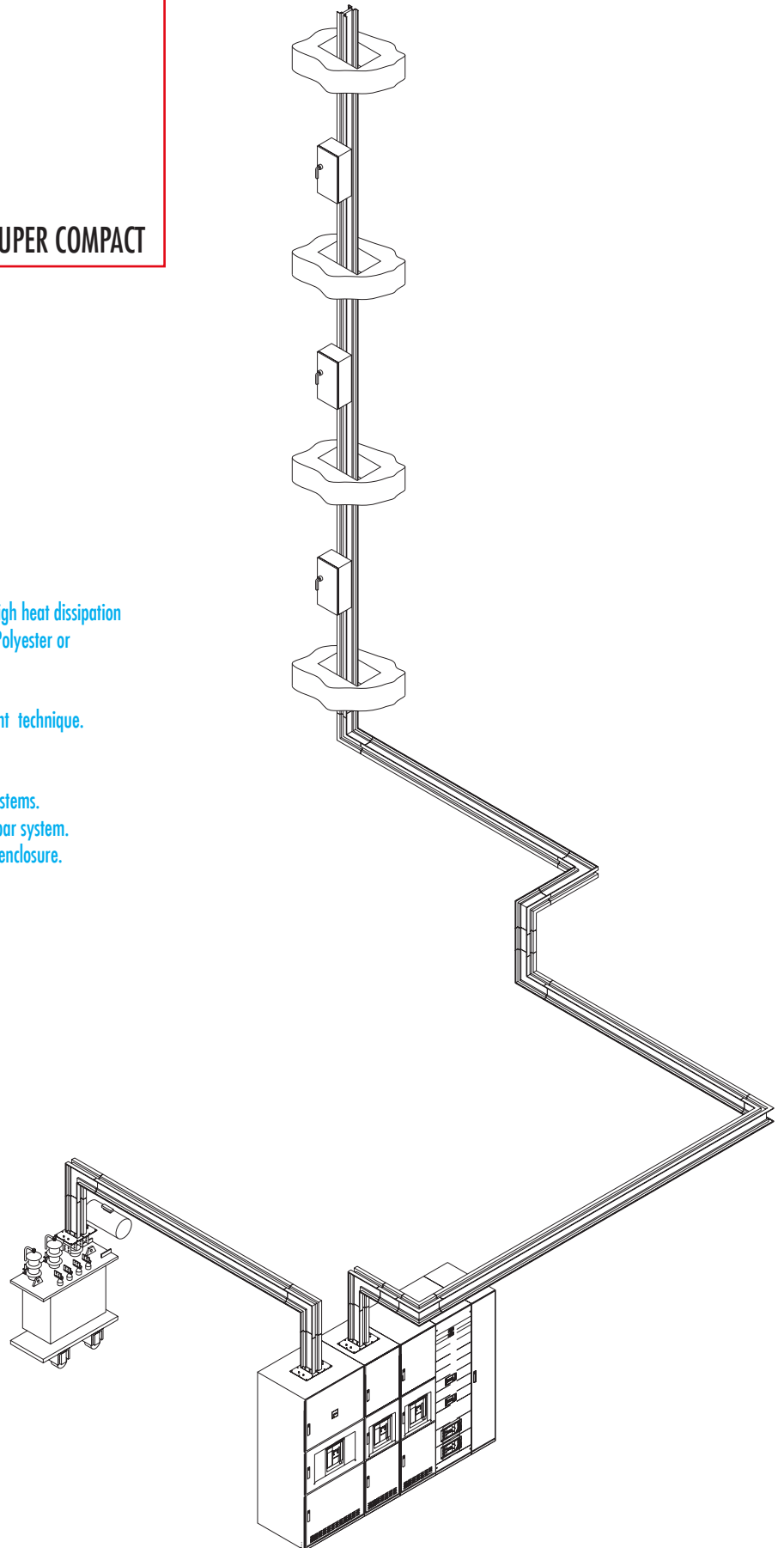
GS-400A ~ 6300 A



IP55
IP65/67/68

GS-SUPER COMPACT

- * Production range is between 400-6300A.
- * Conductors are tin plated.
- * Because of its entire aluminium housing, offers electrical efficiency with high heat dissipation
- * Offers better compact structure and max. safety with 0.38 mm thickness Polyester or Polyester+Epoxy insulation.
- * The corners and off-set accessories are non-welded products.
- * Avoids short-cut and has equipment to get bolt-on point with improved joint technique.
- * Have plug-in points that not affect compact structure.
- * Are manufactured with IP55 and IP65/67/68 standard.
- * Owns all international certifications and CE certification about busbar systems.
- * Class F (155 °C) Epoxy insulation with 300 microns is possible in GSC Busbar system.
- * Aluminium Enclosure is as Extruded, Anodized, Alocsal Coated Aluminium enclosure.
- * Thickness of Aluminium Enclosure is 3-4 mm.



GS-SUPER COMPACT

GSA 400A - 6300A

The conductors used in this serie are aluminium (EC Grade)

GSC 400 - 6300A

The Conductors used in this series are HDHC copper(99.9% Purity) as per EN 13601

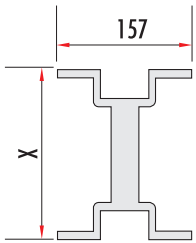
3P+N+%50E (3P+N+%100E / 3P+2N+%50E)

GSA	X mm	GSC	X mm
GSA 400A	115	GSC 400A	115
GSA 500A	115	GSC 500A	115
GSA 630A	115	GSC 630A	115
GSA 800A	115	GSC 800A	115
GSA 1000A	130	GSC 1000A	115
GSA 1250A	150	GSC 1250A	130
GSA 1600A	205	GSC 1600A	150
GSA 2000A	255	GSC 2000A	185

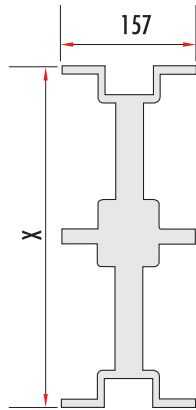
GSA	X mm	GSC	X mm
GSA 2500A	370	GSC 2500A	300
GSA 3200A	410	GSC 3200A	370
GSA 4000A	510	GSC 4000A	410

GSA	X mm	GSC	X mm
GSA 5000A	765	GSC 5000A	555
		GSC 6300A	765

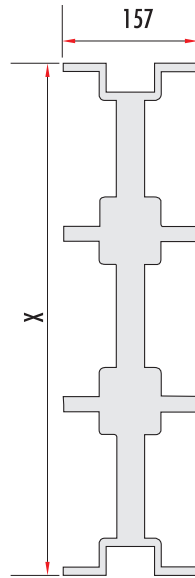
GSA	X mm
GSA 6300A	1020



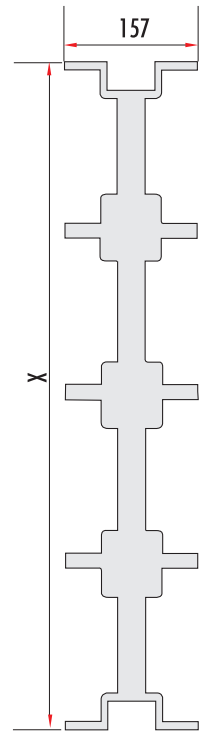
Conductor Nos عدد الموصلات	5	3P+N+%50E
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Conductor Nos عدد الموصلات	10	3P+N+%50E
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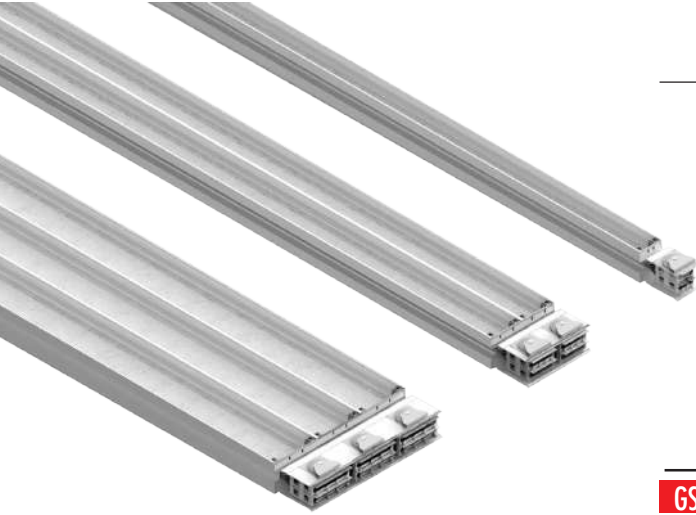


Conductor Nos عدد الموصلات	15	3P+N+%50E
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Conductor Nos عدد الموصلات	20	3P+N+%50E
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Standard Length Element (Bolt-on) 3P+N+1/2 Pe

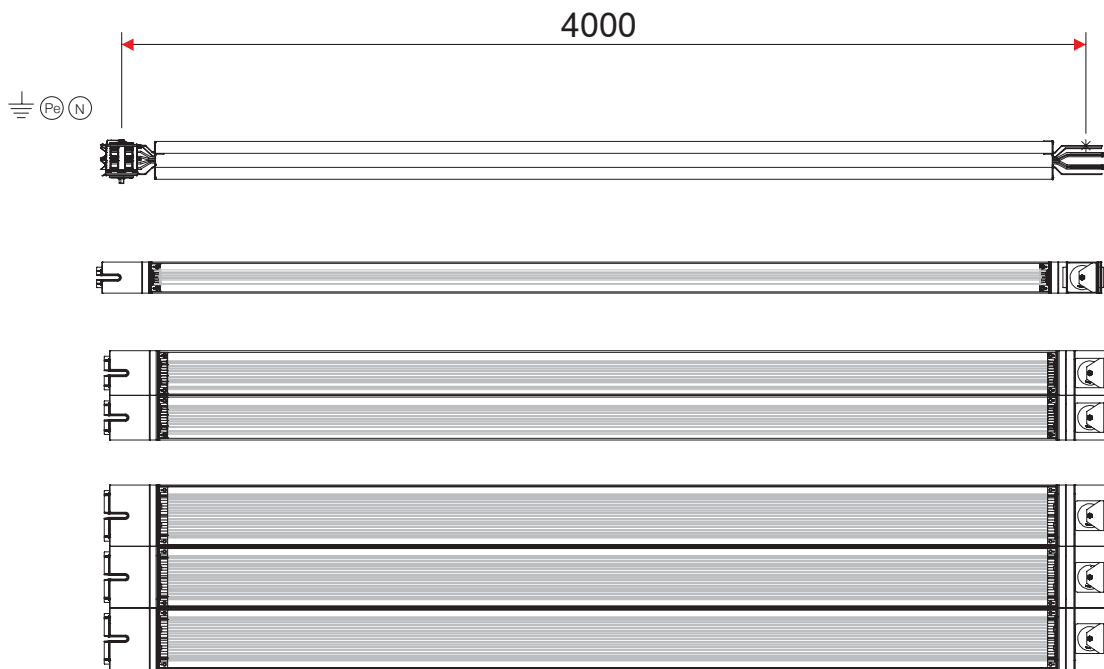


GSA

Order code	Stock code	A	Weight (Kg/m)
GSAB 050104	980104005524050	400	8.99
GSAB 050105	980105015524050	500	8.99
GSAB 050106	980106315524050	630	8.99
GSAB 050108	980108015524050	800	8.99
GSAB 050110	980110015524050	1000	10.54
GSAB 050112	980112515524050	1250	12.00
GSAB 050117	980117005524050	1600	19.00
GSAB 050120	980120005524050	2000	24.84
GSAB 100226	980126005524100	2500	35.60
GSAB 100231	980131005524100	3200	38.13
GSAB 100241	980141005524100	4000	49.74
GSAB 150350	980150005524150	5000	74.34
GSAB 200460	980160005524200	6300	95.62

GSC

GSCB 050104	990104005514051	400	16.80
GSCB 050105	990105015514051	500	16.80
GSCB 050106	990106315514051	630	16.80
GSCB 050108	990108015514051	800	16.80
GSCB 050110	990110015514051	1000	16.80
GSCB 050112	990112515514051	1250	20.09
GSCB 050116	990116015514051	1600	25.52
GSCB 050120	990120015514051	2000	36.85
GSCB 100225	990125005514101	2500	51.25
GSCB 100233	990133005514101	3200	73.70
GSCB 100242	990142005514101	4000	85.55
GSCB 150350	990150015514151	5000	111.90
GSCB 150360	990160005514151	6300	169.77



Housing of the busbars consists of aluminium covers and Polyester or Polyester+Epoxy Film insulation material coated bars. Trunking are manufactured with IP55 as Standard also, trunkings can be manufactured with IP65/67/68 as optional. Please in form the protection level when ordering. General heat insulation class is Class B,F and H.

SUPER COMPACT BUSBAR TRUNKING SYSTEMS

Standard Length Element (Plug-in) 3P+N+1/2 Pe

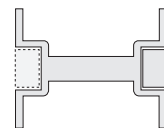
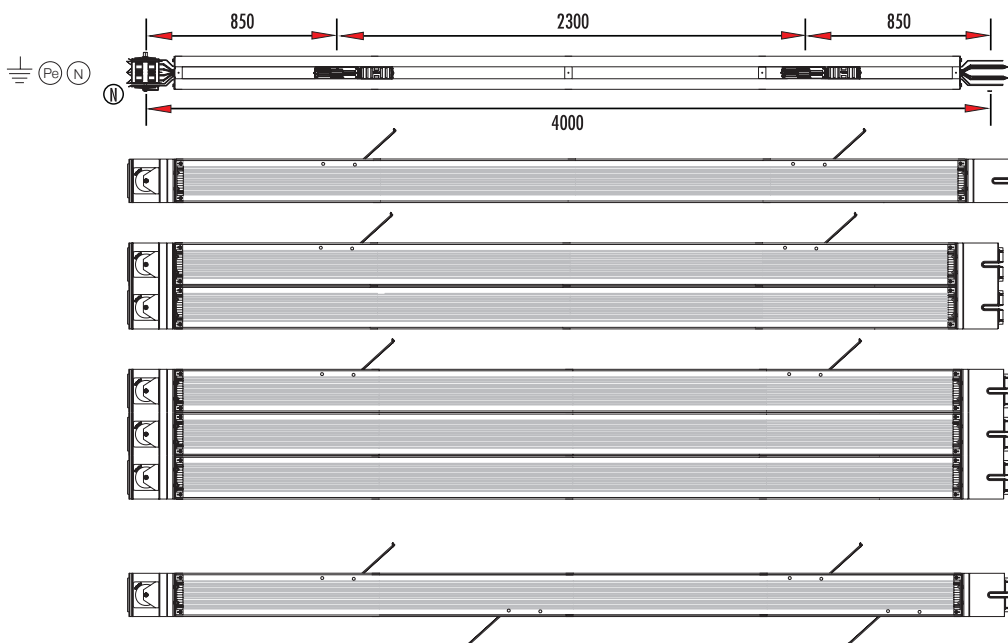
GSA



Order code	Stock code	A	Weight (Kg/m)
GSAP 050104	980104005524051	400	9.15
GSAP 050105	980105015524051	500	9.15
GSAP 050106	980106315524051	630	9.15
GSAP 050108	980108015524051	800	9.15
GSAP 050110	980110015524051	1000	10.78
GSAP 050112	980112515524051	1250	12.70
GSAP 050117	980117005524051	1600	19.40
GSAP 050120	980120005524051	2000	25.08
GSAP 100226	980126005524101	2500	36.06
GSAP 100231	980131005524101	3200	38.45
GSAP 100241	980141005524101	4000	49.94
GSAP 150350	980150005524151	5000	74.48
GSAP 200460	980160005524201	6300	95.82

GSC

GSCP 050104	990104005514052	400	17.08
GSCP 050105	990105015514052	500	17.08
GSCP 050106	990106315514052	630	17.08
GSCP 050108	990108015514052	800	17.08
GSCP 050110	990110015514052	1000	17.08
GSCP 050112	990112515514052	1250	20.54
GSCP 050116	990116015514052	1600	25.97
GSCP 050120	990120015514052	2000	37.30
GSCP 100225	990125005514102	2500	51.65
GSCP 100233	990133005514102	3200	74.60
GSCP 100242	990142005514102	4000	86.01
GSCP 150350	990150015514152	5000	112.18
GSCP 150360	990160005514152	6300	169.93



It provides single coin output up to 1600A in aluminum busbars and 2000A in copper busbars.

Housing of the busbars consists of aluminium covers and Polyester or Polyester+Epoxy Film insulation material coated bars. Trunking are manufactured with IP55 as Standard also, trunkings can be manufactured with IP65/67/68 as optional. Please in form the protection level when ordering. General heat insulation class is Class B.F and H.

Super Compact Busbar Trunking Systems

Non Standard Element (Bolt-on) 3P+N+1/2 PE



Min X = 370 mm
Max X = 3999 mm

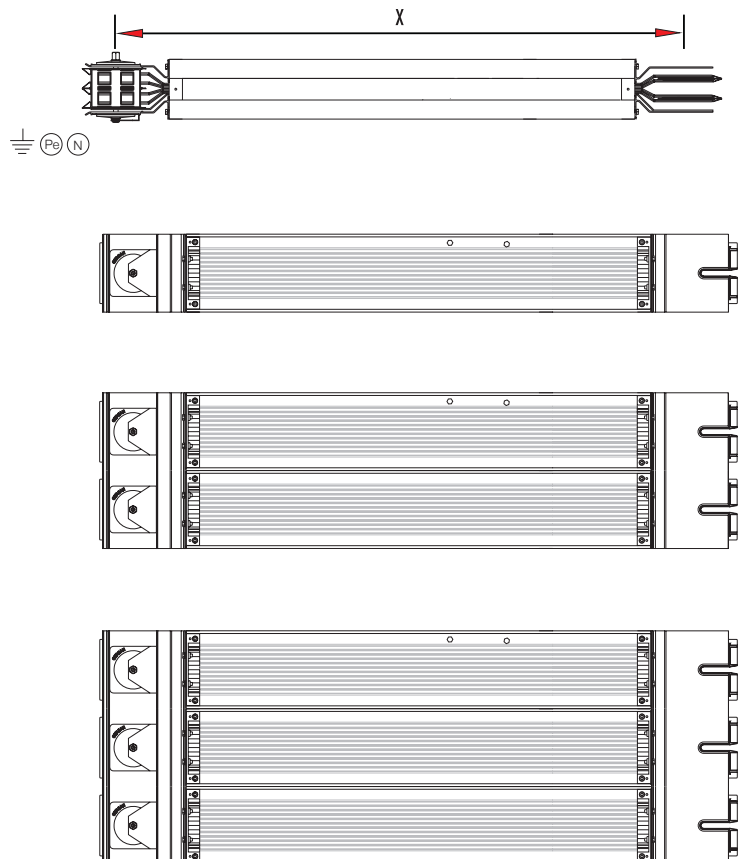
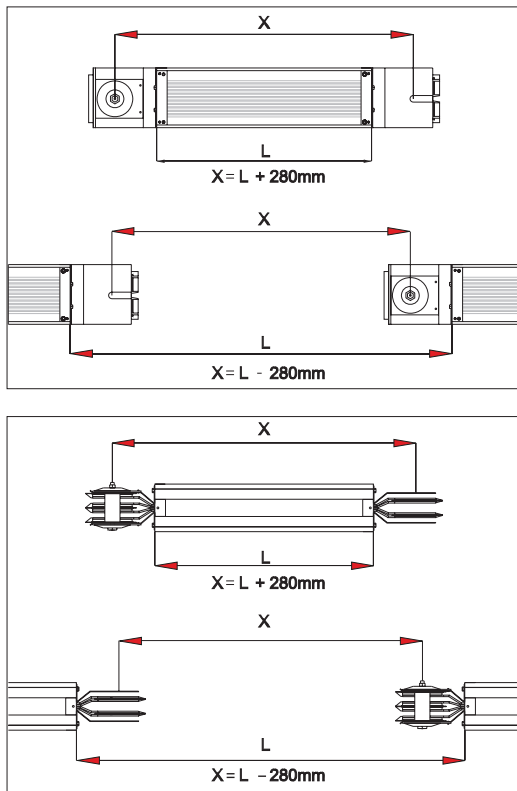
Please inform X length when ordering.

GSA

Order code	Stock code	Amper A	Weight (Kg/m)
GSAB 0501041	980304005521050	400	13.89
GSAB 0501051	980305015521050	500	13.89
GSAB 0501061	980306315521050	630	13.89
GSAB 0501081	980308015521050	800	13.89
GSAB 0501101	980310015521050	1000	14.61
GSAB 0501121	980312515521050	1250	16.93
GSAB 0501171	980317005521050	1600	25.08
GSAB 0501201	980320005521050	2000	31.34
GSAB 1002261	980326005521100	2500	45.46
GSAB 1002311	980331005521100	3200	50.62
GSAB 1002411	980341005521100	4000	63.04
GSAB 1503501	980350005521150	5000	93.43
GSAB 2004601	980360005521200	6300	124.95

GSC

GSCB 0501041	990304005515051	400	22.82
GSCB 0501051	990305015515051	500	22.82
GSCB 0501061	990306315515051	630	22.82
GSCB 0501081	990308015515051	800	22.82
GSCB 0501101	990310015515051	1000	22.82
GSCB 0501121	990312515515051	1250	25.06
GSCB 0501161	990316015515051	1600	31.22
GSCB 0501201	990320015515051	2000	43.58
GSCB 1002251	990325005515101	2500	68.37
GSCB 1002331	990333005515101	3200	87.16
GSCB 1002421	990342005515101	4000	103.26
GSCB 1503501	990350015515151	5000	145.49
GSCB 1503601	990360005515151	6300	203.72



SUPER COMPACT BUSBAR TRUNKING SYSTEMS

Non Standard Element (PLUG-IN) 3P+N+1/2 PE



GSA

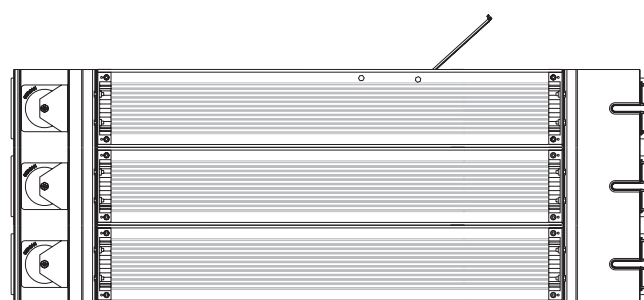
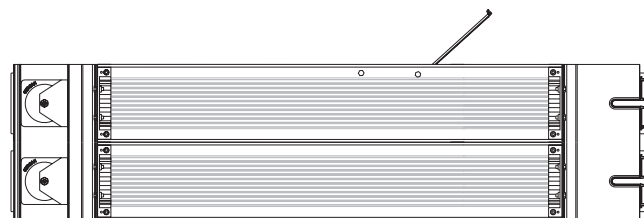
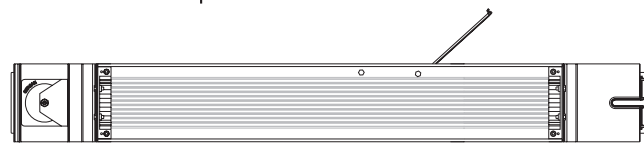
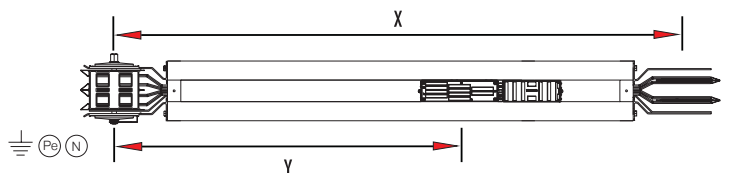
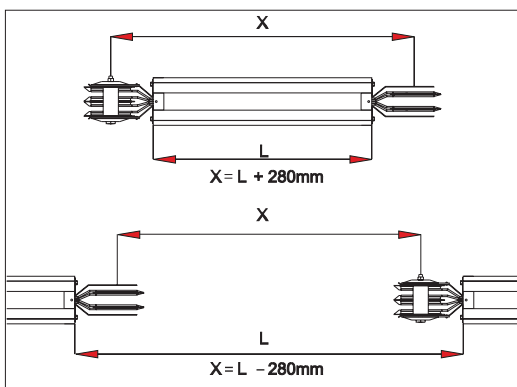
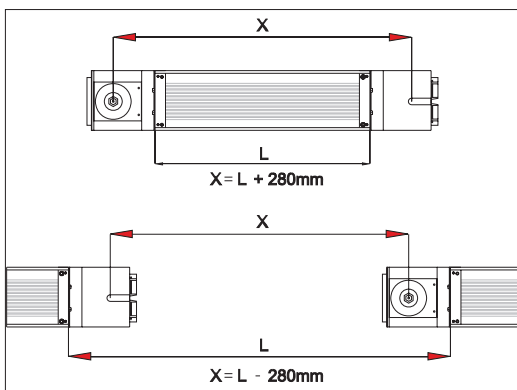
Order code	Stock code	Amper A	Weight (Kg/m)
GSAP 0501041	980304005521051	400	14.21
GSAP 0501051	980305015521051	500	14.21
GSAP 0501061	980306315521051	630	14.21
GSAP 0501081	980308015521051	800	14.21
GSAP 0501101	980310015521051	1000	14.94
GSAP 0501121	980312515521051	1250	17.24
GSAP 0501171	980317005521051	1600	25.67
GSAP 0501201	980320005521051	2000	31.72
GSAP 1002261	980326005521101	2500	46.08
GSAP 1002311	980331005521101	3200	51.21
GSAP 1002411	980341005521101	4000	63.36
GSAP 1503501	980350005521151	5000	93.74
GSAP 2004601	980360005521201	6300	125.25

GSC

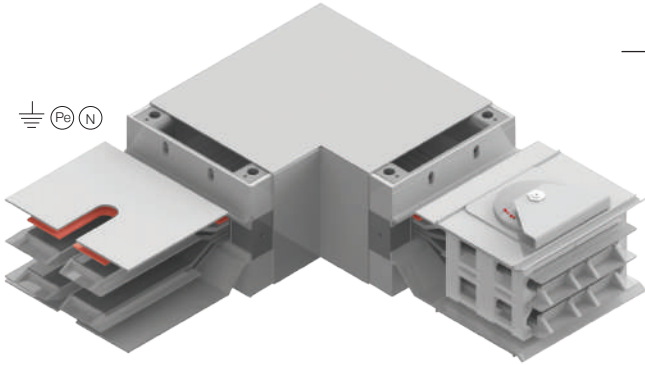
GSCP 0501041	990304005515052	400	23.37
GSCP 0501051	990305015515052	500	23.37
GSCP 0501061	990306315515052	630	23.37
GSCP 0501081	990308015515052	800	23.37
GSCP 0501101	990310015515052	1000	23.37
GSCP 0501121	990312515515052	1250	25.67
GSCP 0501161	990316015515052	1600	31.83
GSCP 0501201	990320015515052	2000	44.19
GSCP 1002251	990325005515102	2500	69.57
GSCP 1002331	990333005515102	3200	88.38
GSCP 1002421	990342005515102	4000	103.87
GSCP 1503501	990350015515152	5000	146.05
GSCP 1503601	990360005515152	6300	203.93

Min X = 1000 mm
Max X = 3999 mm

Please inform X.Y length when ordering.



90° Horizontal Elbow Element (Right) 3P+N+1/2 PE

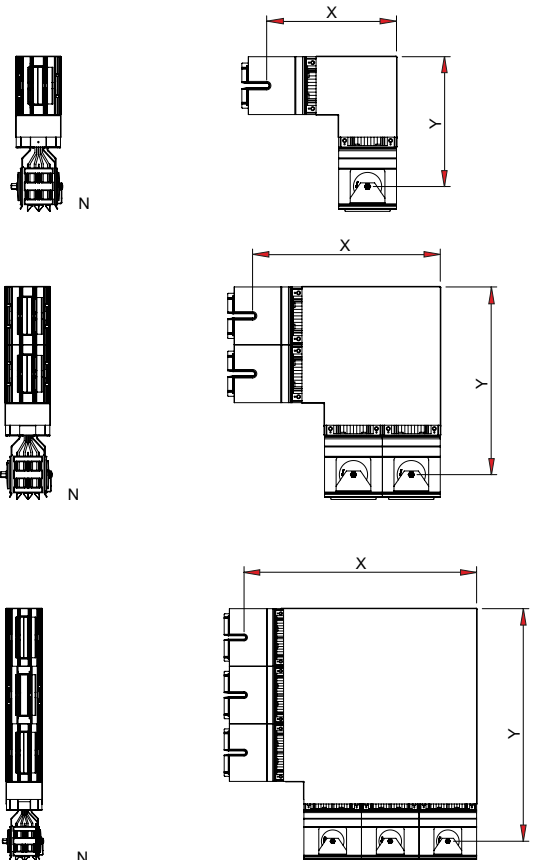
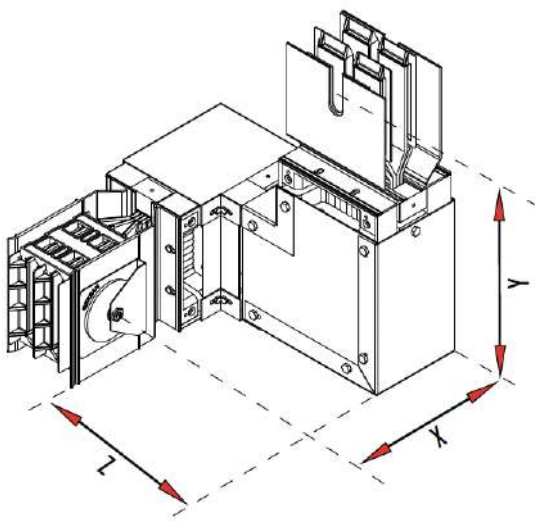


GSA

Order code	Stock code	Amper A	X mm	Y mm	Weight (Kg/Unit)
GSA HE 04R	982904005520050	400	370	370	14.78
GSA HE 05R	982905015520050	500	370	370	14.78
GSA HE 06R	982906315520050	630	370	370	14.78
GSA HE 08R	982908015520050	800	370	370	14.78
GSA HE 10R	982910015520050	1000	385	385	15.10
GSA HE 12R	982912515520050	1250	410	410	18.00
GSA HE 17R	982917005520050	1600	460	460	26.50
GSA HE 20R	982920005520050	2000	520	520	34.90
GSA HE 26R	982926005520100	2500	625	625	56.00
GSA HE 31R	982931005520100	3200	665	665	63.20
GSA HE 41R	982941005520100	4000	775	775	85.70
GSA HE 50R	982950005520150	5000	1030	1030	140.10
GSA HE 60R	982960005520200	6300	1285	1285	220.12

GSC

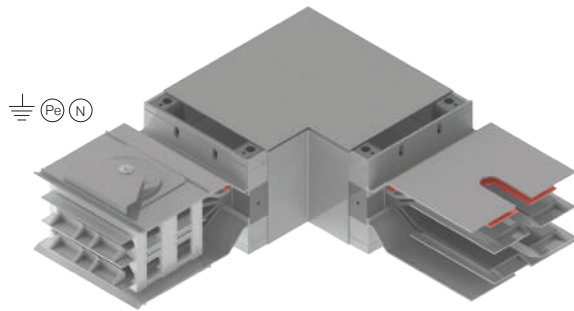
GSC HE 04R	992904005510051	400	370	370	19.72
GSC HE 05R	992905015510051	500	370	370	19.72
GSC HE 06R	992906315510051	630	370	370	19.72
GSC HE 08R	992908015510051	800	370	370	19.72
GSC HE 10R	992910015510051	1000	370	370	19.72
GSC HE 12R	992912515510051	1250	385	385	22.39
GSC HE 16R	992916015510051	1600	410	410	29.15
GSC HE 20R	992920015510051	2000	440	440	39.84
GSC HE 25R	992925005510101	2500	560	560	72.89
GSC HE 33R	992933005510101	3200	625	625	103.39
GSC HE 42R	992942005510101	4000	665	665	109.76
GSC HE 50R	992950015510151	5000	810	810	173.26
GSC HE 60R	992960005510151	6300	1030	1030	311.54



Please inform your request for special angle or vertical + horizontal elbow combinations.
- Min 85°. Max 179°

SUPER COMPACT BUSBAR TRUNKING SYSTEMS

90° Horizontal Elbow Element (Left) 3P+N+1/2 PE

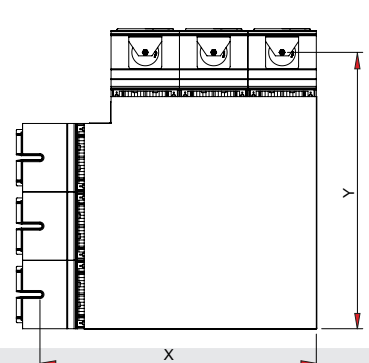
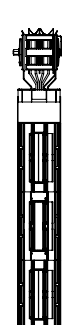
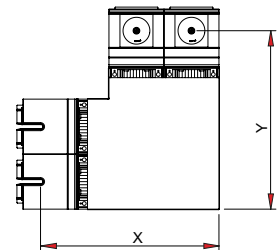
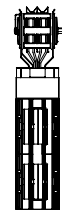
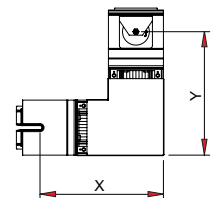
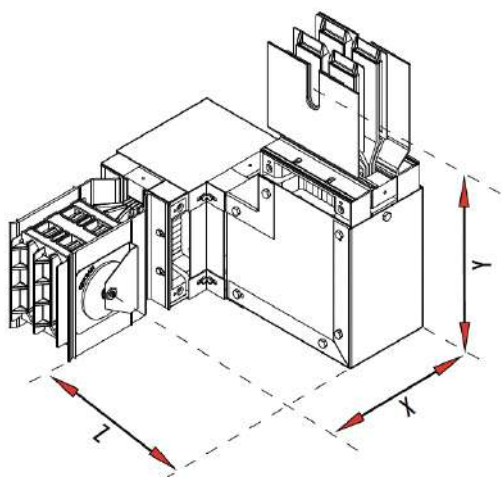


GSA

Order code	Stock code	Amper A	X mm	Y mm	Weight (Kg/Unit)
GSA HE 04L	982904005520051	400	370	370	14.78
GSA HE 05L	982905015520051	500	370	370	14.78
GSA HE 06L	982906315520051	630	370	370	14.78
GSA HE 08L	982908015520051	800	370	370	14.78
GSA HE 10L	982910015520051	1000	385	385	15.10
GSA HE 12L	982912515520051	1250	410	410	18.00
GSA HE 17L	982917005520051	1600	460	460	26.50
GSA HE 20L	982920005520051	2000	520	520	34.90
GSA HE 26L	982926005520101	2500	625	625	56.00
GSA HE 31L	982931005520101	3200	665	665	63.20
GSA HE 41L	982941005520101	4000	775	775	85.70
GSA HE 50L	982950005520151	5000	1030	1030	140.10
GSA HE 60L	982960005520201	6300	1285	1285	220.12

GSC

GSC HE 04L	992904005510052	400	370	370	19.72
GSC HE 05L	992905015510052	500	370	370	19.72
GSC HE 06L	992906315510052	630	370	370	19.72
GSC HE 08L	992908015510052	800	370	370	19.72
GSC HE 10L	992910015510052	1000	370	370	19.72
GSC HE 12L	992912515510052	1250	385	385	22.39
GSC HE 16L	992916015510052	1600	410	410	29.15
GSC HE 20L	992920015510052	2000	440	440	39.84
GSC HE 25L	992925005510102	2500	560	560	72.89
GSC HE 33L	992933005510102	3200	625	625	103.39
GSC HE 42L	992942005510102	4000	665	665	109.76
GSC HE 50L	992950015510152	5000	810	810	173.26
GSC HE 60L	992960005510152	6300	1030	1030	311.54



- Min 85°. Max 179°

Please inform your request for special angle or vertical + horizontal elbow combinations.

- Min 85°. Max 179°

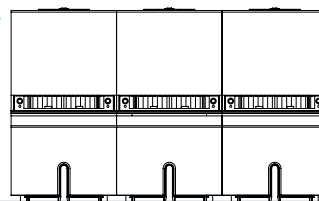
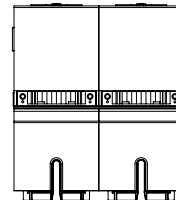
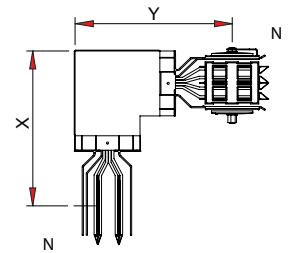
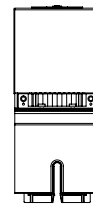
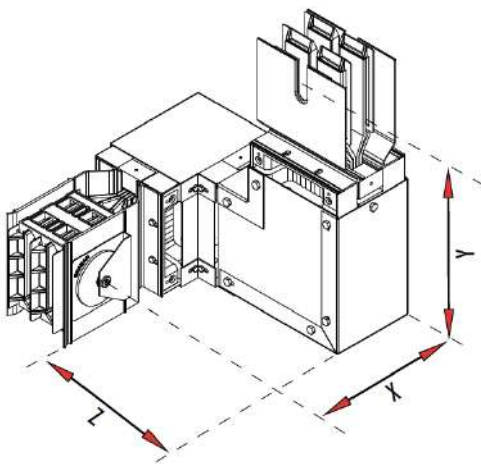
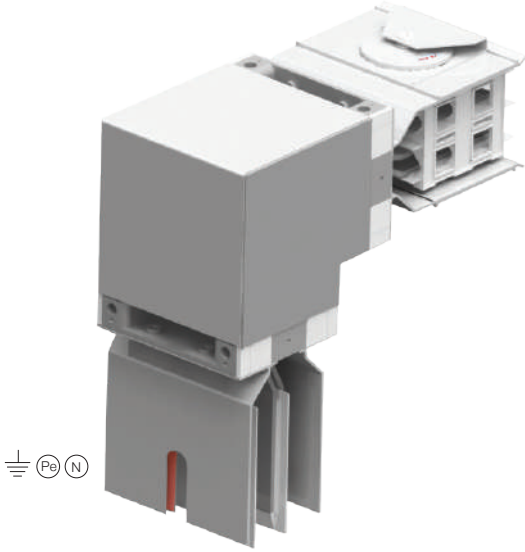
90° Vertical Elbow Element (Right) 3P+N+1/2 PE

GSA

Order code	Stock code	Amper A	X mm	Y mm	Weight (Kg/Unit)
GSA VE 04R	983104005520050	400	380	380	14.45
GSA VE 05R	983105015520050	500	380	380	14.45
GSA VE 06R	983106315520050	630	380	380	14.45
GSA VE 08R	983108015520050	800	380	380	14.45
GSA VE 10R	983110015520050	1000	380	380	14.86
GSA VE 12R	983112515520050	1250	380	380	16.56
GSA VE 17R	983117005520050	1600	380	380	21.27
GSA VE 20R	983120005520050	2000	380	380	26.33
GSA VE 26R	983126005520100	2500	380	380	40.66
GSA VE 31R	983131005520100	3200	380	380	43.66
GSA VE 41R	983141005520100	4000	380	380	53.10
GSA VE 50R	983150005520150	5000	380	380	79.13
GSA VE 60R	983160005520200	6300	380	380	103,51

GSC

GSC VE 04R	993104005510051	400	380	380	20.07
GSC VE 05R	993105015510051	500	380	380	20.07
GSC VE 06R	993106315510051	630	380	380	20.07
GSC VE 08R	993108015510051	800	380	380	20.07
GSC VE 10R	993110015510051	1000	380	380	20.07
GSC VE 12R	993112515510051	1250	380	380	21.72
GSC VE 16R	993116015510051	1600	380	380	25.93
GSC VE 20R	993120015510051	2000	380	380	33.39
GSC VE 25R	993125005510101	2500	380	380	58.37
GSC VE 33R	993133005510101	3200	380	380	72.82
GSC VE 42R	993142005510101	4000	380	380	81.70
GSC VE 50R	993150015510151	5000	380	380	110.44
GSC VE 60R	993160005510151	6300	380	380	156.30



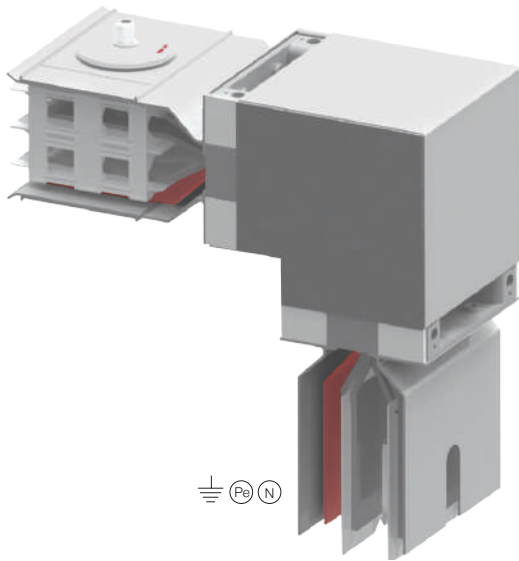
Please inform your request for special angle or vertical + horizontal elbow combinations.

- Min 85°. Max 179°

- At angles below 90°. the dimensions increase by 2 cm.

SUPER COMPACT BUSBAR TRUNKING SYSTEMS

90° Vertical Elbow Element (Left) 3P+N+1/2 PE

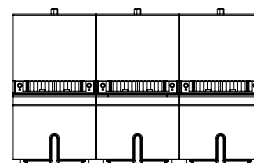
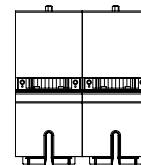
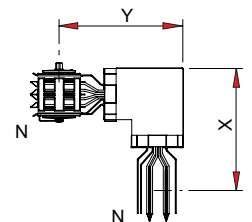
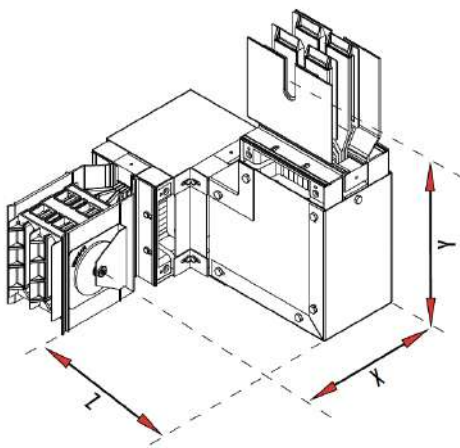


GSA

Order code	Stock code	Amper A	X mm	Y mm	Weight (Kg/Unit)
GSA VE 04L	983104005520051	400	380	380	14.45
GSA VE 05L	983105015520051	500	380	380	14.45
GSA VE 06L	983106315520051	630	380	380	14.45
GSA VE 08L	983108015520051	800	380	380	14.45
GSA VE 10L	983110015520051	1000	380	380	14.86
GSA VE 12L	983112515520051	1250	380	380	16.56
GSA VE 17L	983117005520051	1600	380	380	21.27
GSA VE 20L	983120005520051	2000	380	380	26.33
GSA VE 26L	983126005520101	2500	380	380	40.66
GSA VE 31L	983131005520101	3200	380	380	43.66
GSA VE 41L	983141005520101	4000	380	380	53.10
GSA VE 50L	983150005520151	5000	380	380	79.13
GSA VE 60L	983160005520201	6300	380	380	103.51

GSC

GSC VE 04L	993104005510052	400	380	380	20.07
GSC VE 05L	993105015510052	500	380	380	20.07
GSC VE 06L	993106315510052	630	380	380	20.07
GSC VE 08L	993108015510052	800	380	380	20.07
GSC VE 10L	993110015510052	1000	380	380	20.07
GSC VE 12L	993112515510052	1250	380	380	21.72
GSC VE 16L	993116015510052	1600	380	380	25.93
GSC VE 20L	993120015510052	2000	380	380	33.39
GSC VE 25L	993125005510102	2500	380	380	58.37
GSC VE 33L	993133005510102	3200	380	380	72.82
GSC VE 42L	993142005510102	4000	380	380	81.70
GSC VE 50L	993150015510152	5000	380	380	110.44
GSC VE 60L	993160005510152	6300	380	380	156.30

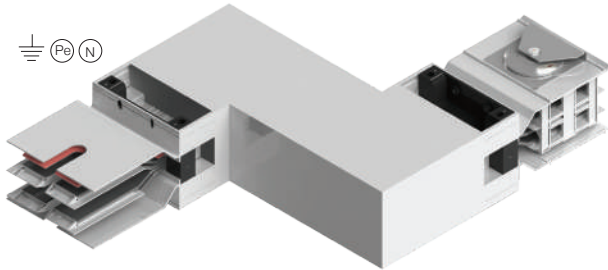


Please inform your request for special angle or vertical + horizontal elbow combinations.

- Min 85°. Max 179°

- At angles below 90°. the dimensions increase by 2 cm.

90° Horizontal Offset Element (Right) 3P+N+1/2 PE



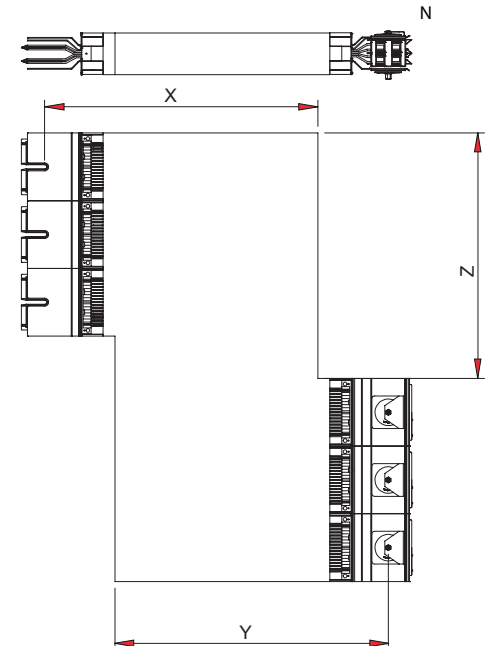
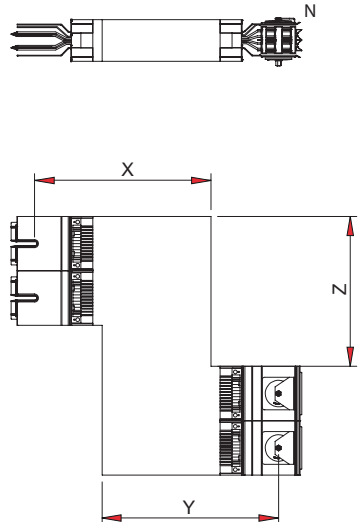
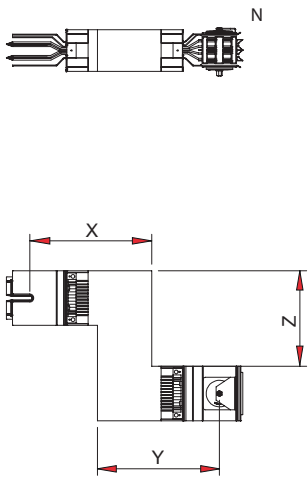
GSA

Order code	Stock code	Amper A	X mm	Y mm	Z mm	Weight (Kg/Unit)
GSA HZ 04R	983404005520050	400	370	370	270	18.77
GSA HZ 05R	983405015520050	500	370	370	270	18.77
GSA HZ 06R	983406315520050	630	370	370	270	18.77
GSA HZ 08R	983408015520050	800	370	370	270	18.77
GSA HZ 10R	983410015520050	1000	385	385	285	22.22
GSA HZ 12R	983412515520050	1250	410	410	310	26.46
GSA HZ 17R	983417005520050	1600	460	460	360	39.20
GSA HZ 20R	983420005520050	2000	520	520	415	52.47
GSA HZ 26R	983426005520100	2500	625	625	535	87.46
GSA HZ 31R	983431005520100	3200	665	665	565	101.07
GSA HZ 41R	983441005520100	4000	775	775	670	139.26
GSA HZ 50R	983450005520150	5000	1030	1030	925	245.99
GSA HZ 60R	983460005520200	6300	1285	1285	1180	379.20

GSC

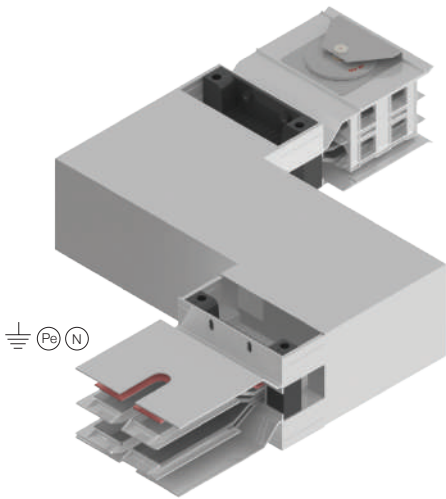
GSC HZ 04R	993404005510051	400	370	370	270	27.61
GSC HZ 05R	993405015510051	500	370	370	270	27.61
GSC HZ 06R	993406315510051	630	370	370	270	27.61
GSC HZ 08R	993408015510051	800	370	370	270	27.61
GSC HZ 10R	993410015510051	1000	370	370	270	27.61
GSC HZ 12R	993412515510051	1250	385	385	285	33.13
GSC HZ 16R	993416015510051	1600	410	410	310	42.56
GSC HZ 20R	993420015510051	2000	440	440	350	60.43
GSC HZ 25R	993425005510101	2500	560	560	460	105.04
GSC HZ 33R	993433005510101	3200	625	625	535	157.89
GSC HZ 42R	993442005510101	4000	665	665	565	188.70
GSC HZ 50R	993450015510151	5000	810	810	720	258.48
GSC HZ 60R	993460005510151	6300	1030	1030	925	495.90

- Standard manufacturing length is given at the table. Requested lengths can be manufactured. Please inform the length X.Y.Z when ordering.
- Min 85 °. Max 179 °
- At angles below 90 °. the dimensions increase by 2 cm.



SUPER COMPACT BUSBAR TRUNKING SYSTEMS

90° Horizontal Offset Element (Left) 3P+N+1/2 PE



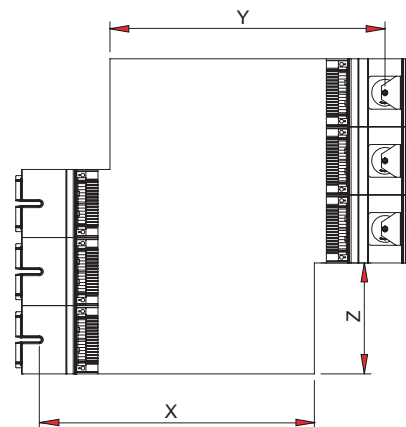
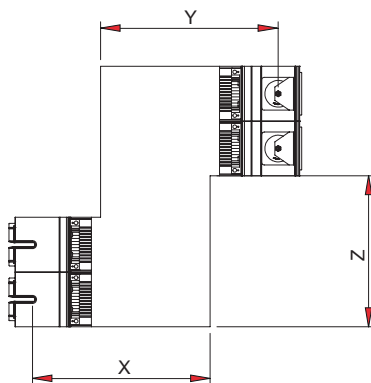
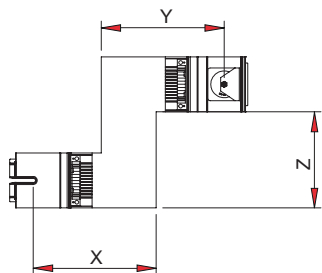
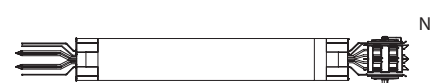
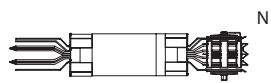
GSA

Order code	Stock code	Amper A	X mm	Y mm	Z mm	Weight (Kg/Unit)
GSA HZ 04L	983404005520051	400	370	370	270	18.77
GSA HZ 05L	983405015520051	500	370	370	270	18.77
GSA HZ 06L	983406315520051	630	370	370	270	18.77
GSA HZ 08L	983408015520051	800	370	370	270	18.77
GSA HZ 10L	983410015520051	1000	385	385	285	22.22
GSA HZ 12L	983412515520051	1250	410	410	310	26.46
GSA HZ 17L	983417005520051	1600	460	460	360	39.20
GSA HZ 20L	983420005520051	2000	520	520	415	52.47
GSA HZ 26L	983426005520101	2500	625	625	535	87.46
GSA HZ 31L	983431005520101	3200	665	665	565	101.07
GSA HZ 41L	983441005520101	4000	775	775	670	139.26
GSA HZ 50L	983450005520151	5000	1030	1030	925	245.99
GSA HZ 60L	983460005520201	6300	1285	1285	1285	379.20

GSC

GSC HZ 04L	993404005510052	400	370	370	270	27.61
GSC HZ 05L	993405015510052	500	370	370	270	27.61
GSC HZ 06L	993406315510052	630	370	370	270	27.61
GSC HZ 08L	993408015510052	800	370	370	270	27.61
GSC HZ 10L	993410015510052	1000	370	370	270	27.61
GSC HZ 12L	993412515510052	1250	385	385	285	33.13
GSC HZ 16L	993416015510052	1600	410	410	310	42.56
GSC HZ 20L	993420015510052	2000	440	440	350	60.43
GSC HZ 25L	993425005510102	2500	560	560	460	105.04
GSC HZ 33L	993433005510102	3200	625	625	535	157.89
GSC HZ 42L	993442005510102	4000	665	665	565	188.70
GSC HZ 50L	993450015510152	5000	810	810	720	258.48
GSC HZ 60L	993460005510152	6300	1030	1030	925	495.90

- Standard manufacturing length is given at the table. Requested lengths can be manufactured. Please inform the length X.Y.Z when ordering.
- Min 85°. Max 179°
- At angles below 90°, the dimensions increase by 2 cm.



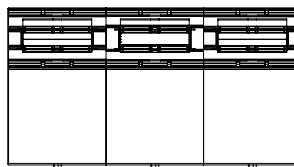
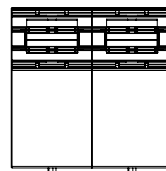
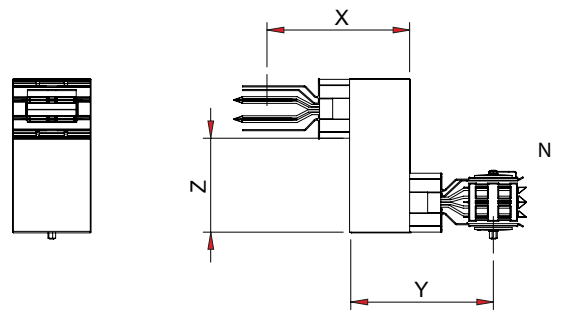
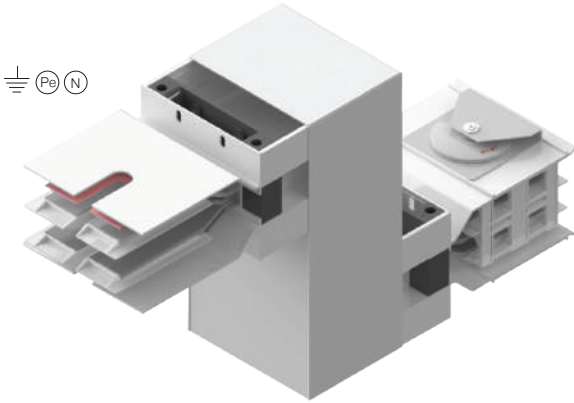
90° Vertical Offset Element (Right) 3P+N+1/2 PE

GSA

Order code	Stock code	Amper A	X mm	Y mm	Z mm	Weight (Kg/Unit)
GSA VZ 04R	983604005520050	400	380	380	250	19.66
GSA VZ 05R	983605015520050	500	380	380	250	19.66
GSA VZ 06R	983606315520050	630	380	380	250	19.66
GSA VZ 08R	983608015520050	800	380	380	250	19.66
GSA VZ 10R	983610015520050	1000	380	380	250	20.15
GSA VZ 12R	983612515520050	1250	380	380	250	22.36
GSA VZ 17R	983617005520050	1600	380	380	250	29.69
GSA VZ 20R	983620005520050	2000	380	380	250	36.18
GSA VZ 26R	983626005520100	2500	380	380	250	54.76
GSA VZ 31R	983631005520100	3200	380	380	250	57.56
GSA VZ 41R	983641005520100	4000	380	380	250	70.67
GSA VZ 50R	983650005520150	5000	380	380	250	110.48
GSA VZ 60R	983660005520200	6300	380	380	250	133.47

GSC

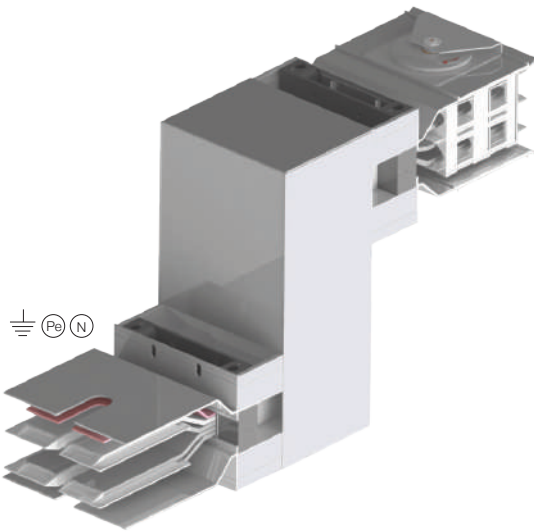
GSC VZ 04R	993604005510051	400	380	380	250	27.03
GSC VZ 05R	993605015510051	500	380	380	250	27.03
GSC VZ 06R	993606315510051	630	380	380	250	27.03
GSC VZ 08R	993608015510051	800	380	380	250	27.03
GSC VZ 10R	993610015510051	1000	380	380	250	27.03
GSC VZ 12R	993612515510051	1250	380	380	250	29.43
GSC VZ 16R	993616015510051	1600	380	380	250	35.06
GSC VZ 20R	993620015510051	2000	380	380	250	45.90
GSC VZ 25R	993625005510101	2500	380	380	250	71.70
GSC VZ 33R	993633005510101	3200	380	380	250	94.16
GSC VZ 42R	993642005510101	4000	380	380	250	106.06
GSC VZ 50R	993650015510151	5000	380	380	250	156.20
GSC VZ 60R	993660005510151	6300	380	380	250	208.16



- Standard manufacturing length is given in the table. Requested lengths can be manufactured. Please inform the length X.Y.Z when ordering.
- Min 85°. Max 179°
- At angles below 90°, the dimensions increase by 2 cm.

SUPER COMPACT BUSBAR TRUNKING SYSTEMS

90° Vertical Offset Element (Left) 3P+N+1/2 PE

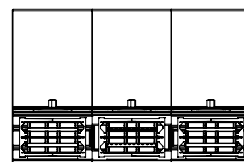
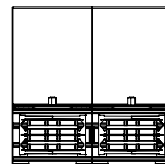
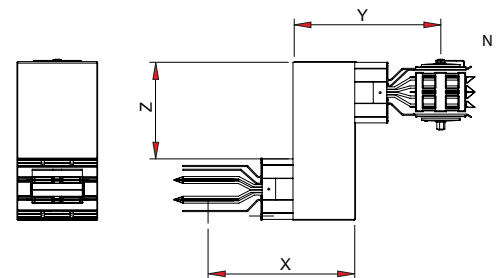


GSA

Order code	Stock code	Amper A	X mm	Y mm	Z mm	Weight (Kg/Unit)
GSA VZ 04L	983604005520051	400	380	380	250	19.66
GSA VZ 05L	983605015520051	500	380	380	250	19.66
GSA VZ 06L	983606315520051	630	380	380	250	19.66
GSA VZ 08L	983608015520051	800	380	380	250	19.66
GSA VZ 10L	983610015520051	1000	380	380	250	20.15
GSA VZ 12L	983612515520051	1250	380	380	250	22.36
GSA VZ 17L	983617005520051	1600	380	380	250	29.69
GSA VZ 20L	983620005520051	2000	380	380	250	36.18
GSA VZ 26L	983626005520101	2500	380	380	250	54.76
GSA VZ 31L	983631005520101	3200	380	380	250	57.56
GSA VZ 41L	983641005520101	4000	380	380	250	70.67
GSA VZ 50L	983650005520151	5000	380	380	250	110.48
GSA VZ 60L	983660005520201	6300	380	380	250	133.47

GSC

GSC VZ 04L	993604005510052	400	380	380	250	27.03
GSC VZ 05L	993605015510052	500	380	380	250	27.03
GSC VZ 06L	993606315510052	630	380	380	250	27.03
GSC VZ 08L	993608015510052	800	380	380	250	27.03
GSC VZ 10L	993610015510052	1000	380	380	250	27.03
GSC VZ 12L	993612515510052	1250	380	380	250	29.43
GSC VZ 16L	993616015510052	1600	380	380	250	35.06
GSC VZ 20L	993620015510052	2000	380	380	250	45.90
GSC VZ 25L	993625005510102	2500	380	380	250	71.70
GSC VZ 33L	993633005510102	3200	380	380	250	94.16
GSC VZ 42L	993642005510102	4000	380	380	250	106.06
GSC VZ 50L	993650015510152	5000	380	380	250	156.20
GSC VZ 60L	993660005510152	6300	380	380	250	208.16



- Standard manufacturing length is given in the table.

Requested lengths can be manufactured.

Please inform the length X.Y.Z when ordering.

- Min 85°. Max 179°

- At angles below 90°, the dimensions increase by 2 cm.

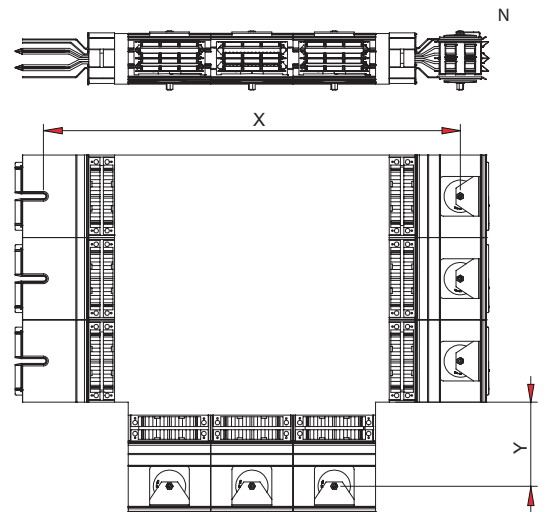
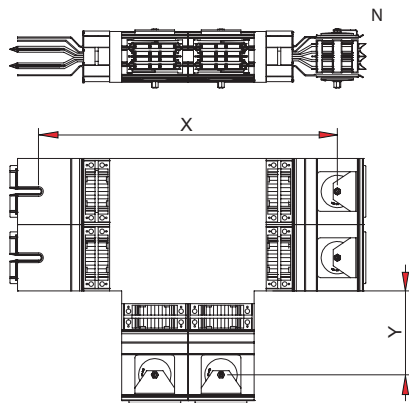
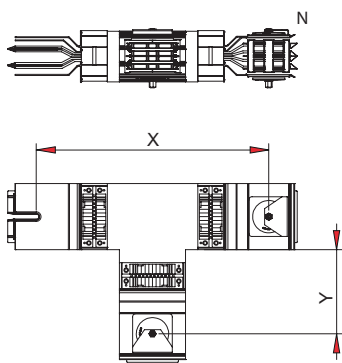
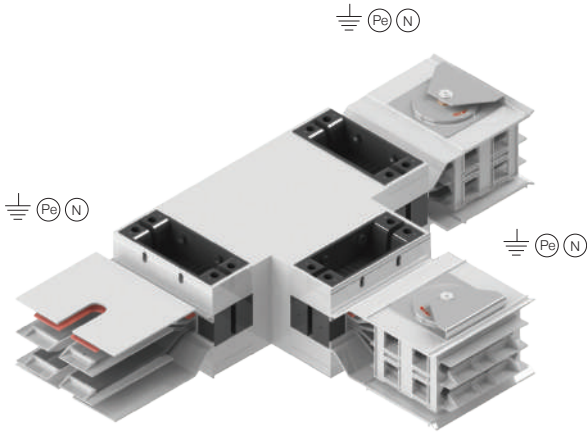
T Element (Right) 3P+N+1/2 PE

GSA

Order code	Stock code	Amper A	X mm	Y mm	Weight (Kg/Unit)
GSA TE 04R	983804005520050	400	630	260	21.28
GSA TE 05R	983805015520050	500	630	260	21.28
GSA TE 06R	983806315520050	630	630	260	21.28
GSA TE 08R	983808015520050	800	630	260	21.28
GSA TE 10R	983810015520050	1000	645	260	22.43
GSA TE 12R	983812515520050	1250	670	260	25.80
GSA TE 17R	983817005520050	1600	720	260	37.35
GSA TE 20R	983820005520050	2000	780	260	48.13
GSA TE 26R	983826005520100	2500	885	260	75.31
GSA TE 31R	983831005520100	3200	925	260	86.44
GSA TE 41R	983841005520100	4000	1035	260	115.83
GSA TE 50R	983850005520150	5000	1290	260	198.92
GSA TE 60R	983860005520200	6300	1545	260	321.90

GSC

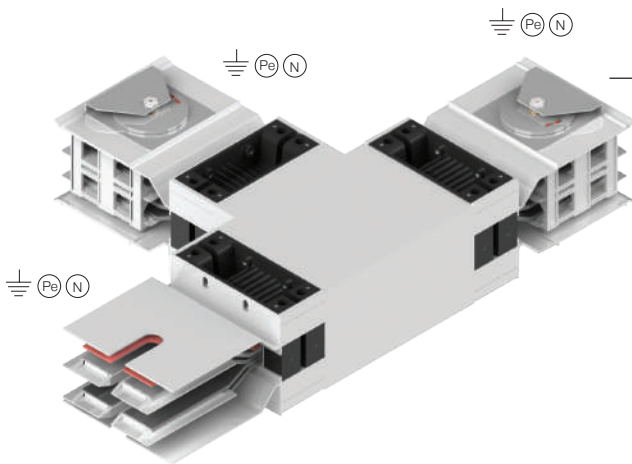
GSC TE 04R	993804005510051	400	630	260	30.13
GSC TE 05R	993805015510051	500	630	260	30.13
GSC TE 06R	993806315510051	630	630	260	30.13
GSC TE 08R	993808015510051	800	630	260	30.13
GSC TE 10R	993810015510051	1000	630	260	30.13
GSC TE 12R	993812515510051	1250	645	260	33.54
GSC TE 16R	993816015510051	1600	670	260	41.59
GSC TE 20R	993820015510051	2000	700	260	57.94
GSC TE 25R	993825005510101	2500	820	260	93.96
GSC TE 33R	993833005510101	3200	885	260	143.94
GSC TE 42R	993842005510101	4000	925	260	171.24
GSC TE 50R	993850015510151	5000	1070	260	254.03
GSC TE 60R	993860005510151	6300	1290	260	425.88



Standard manufacturing length is given at the table. Requested lengths can be manufactured. Please inform the length X,Y when ordering.

SUPER COMPACT BUSBAR TRUNKING SYSTEMS

T Element (Left) 3P+N+1/2 PE

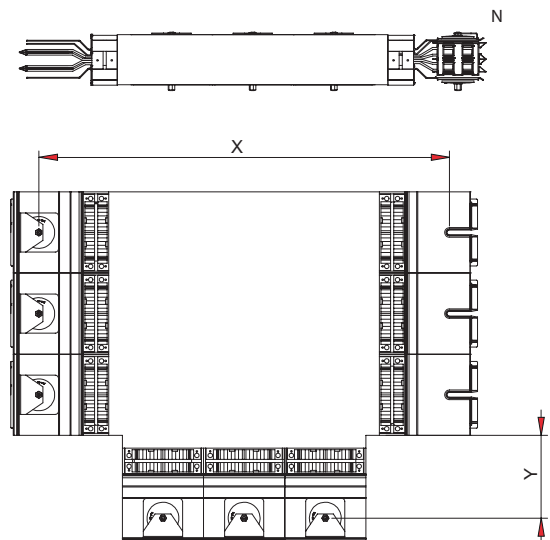
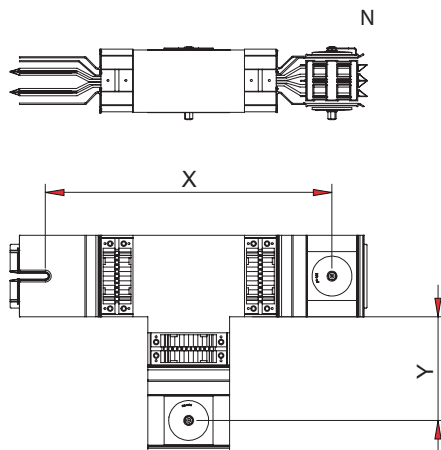
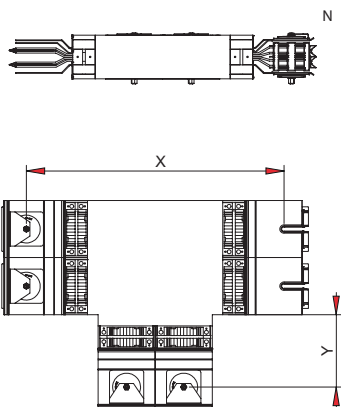


GSA

Order code	Stock code	Amper A	X mm	Y mm	Weight (Kg/Unit)
GSA TE 04L	983804005520051	400	630	260	21.28
GSA TE 05L	983805015520051	500	630	260	21.28
GSA TE 06L	983806315520051	630	630	260	21.28
GSA TE 08L	983808015520051	800	630	260	21.28
GSA TE 10L	983810015520051	1000	645	260	22.43
GSA TE 12L	983812515520051	1250	670	260	25.80
GSA TE 17L	983817005520051	1600	720	260	37.35
GSA TE 20L	983820005520051	2000	780	260	48.13
GSA TE 26L	983826005520101	2500	885	260	75.31
GSA TE 31L	983831005520101	3200	925	260	86.44
GSA TE 41L	983841005520101	4000	1035	260	115.83
GSA TE 50L	983850005520151	5000	1290	260	198.92
GSA TE 60L	983860005520201	6300	1545	260	321.90

GSC

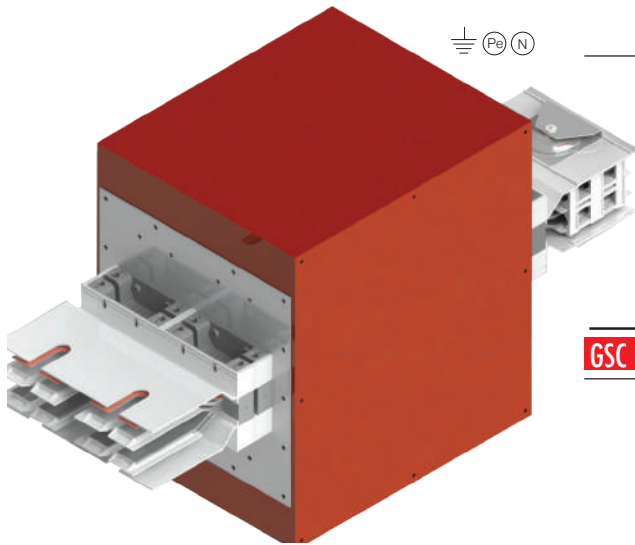
GSC TE 04L	993804005510052	400	630	260	30.13
GSC TE 05L	993805015510052	500	630	260	30.13
GSC TE 06L	993806315510052	630	630	260	30.13
GSC TE 08L	993808015510052	800	630	260	30.13
GSC TE 10L	993810015510052	1000	630	260	30.13
GSC TE 12L	993812515510052	1250	645	260	33.54
GSC TE 16L	993816015510052	1600	670	260	41.59
GSC TE 20L	993820015510052	2000	700	260	57.94
GSC TE 25L	993825005510102	2500	820	260	93.96
GSC TE 33L	993833005510102	3200	885	260	143.94
GSC TE 42L	993842005510102	4000	925	260	171.24
GSC TE 50L	993850015510152	5000	1070	260	254.03
GSC TE 60L	993860005510152	6300	1290	260	425.88



Standard manufacturing length is given at the table. Requested lengths can be manufactured. Please inform the length X,Y when ordering.

Reduction Element 3P+N+1/2 PE

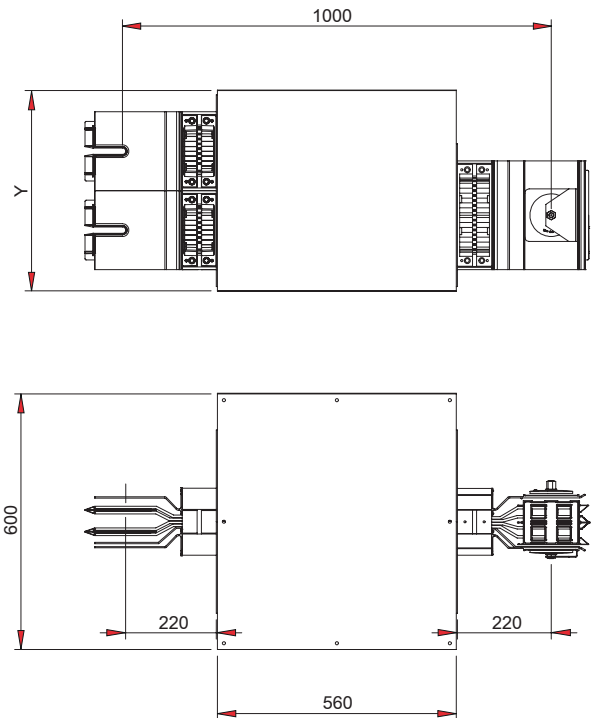
GSA



Order code	Stock code	Amper A	Y mm	Weight (Kg/Unit)
GSA RED1008	981310095520050	1 000/800	-	18.20
GSA RED1210	981313105520050	1 250/1000	-	20.26
GSA RED1712	981317135520050	1 600/1250	-	30.91
GSA RED2017	981320175520050	2000/1600	-	36.47
GSA RED2620	981326205520100	2500//2000	470	70.00
GSA RED3126	981331265520100	3200/2500	510	80.84
GSA RED4131	981341315520100	4000/3200	610	93.22
GSA RED5041	981350415520150	5000/4000	865	99.23
GSA RED6050	981360505520200	6300/5000	1120	137.77

GSC

GSC RED1210	991313105510051	1 250/1000	-	28.94
GSC RED1612	991316135510051	1 600/1 250	-	34.05
GSC RED2016	991322165510051	2000/1600	-	46.22
GSC RED2520	991325225510051	2500//2000	-	92.31
GSC RED3325	991333255510101	3200/2500	470	108.68
GSC RED4233	991342335510101	4000/3200	510	134.28
GSC RED5042	991350425510151	5000/4000	655	171.45
GSC RED6050	991360525510151	6300/5000	865	217.25



IT is available to use with circuit breaker. please inform this when ordering.

SUPER COMPACT BUSBAR TRUNKING SYSTEMS

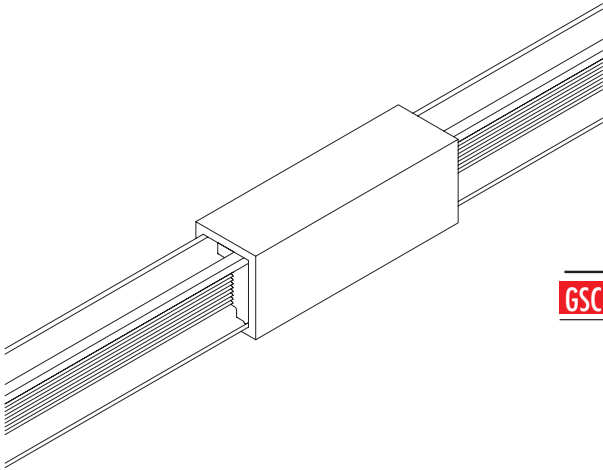
Fire Barrier 3P+N+1/2 PE

GSA

Order code	Stock code	Amper A	Weight (Kg/Unit)
GSA FB 04	985004005520050	400	9.58
GSA FB 05	985005015520050	500	9.58
GSA FB 06	985006315520050	630	9.58
GSA FB 08	985008015520050	800	9.58
GSA FB 10	985010015520050	1000	9.71
GSA FB 12	985012515520050	1250	10.30
GSA FB 17	985017005520050	1600	11.16
GSA FB 20	985020005520050	2000	12.70
GSA FB 26	985026005520100	2500	15.36
GSA FB 31	985031005520100	3200	19.75
GSA FB 41	985041005520100	4000	20.81
GSA FB 50	985050005520150	5000	24.04
GSA FB 60	985060005520200	6300	32.73

GSC

GSC FB 04	995004005510051	400	9.58
GSC FB 05	995005015510051	500	9.58
GSC FB 06	995006315510051	630	9.58
GSC FB 08	995008015510051	800	9.58
GSC FB 10	995010015510051	1000	9.58
GSC FB 12	995012515510051	1250	9.71
GSC FB 16	995016015510051	1600	10.30
GSC FB 20	995020015510051	2000	11.16
GSC FB 25	995025005510101	2500	12.70
GSC FB 33	995033005510101	3200	15.36
GSC FB 42	995042005510101	4000	19.75
GSC FB 50	995050015510151	5000	20.81
GSC FB 60	995060005510151	6300	24.04



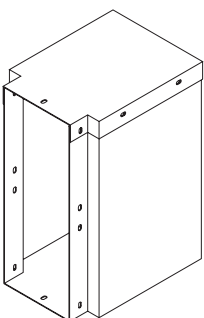
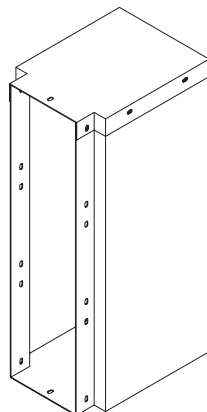
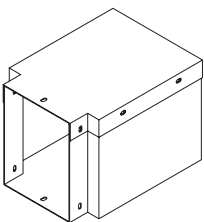
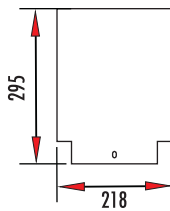
End Cap

GSA

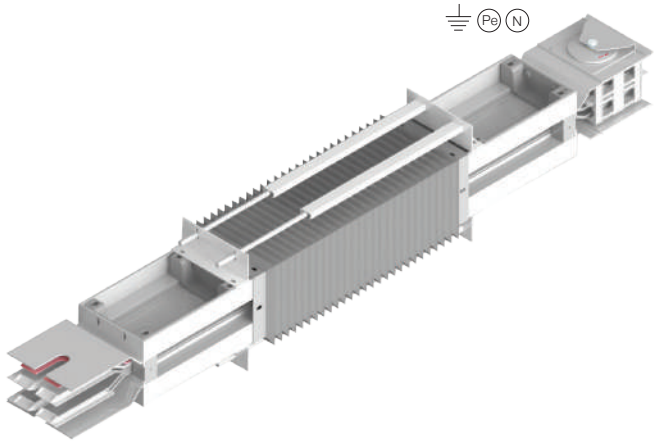
Order code	Stock code	Amper A	Weight (Kg/Unit)
GSA EU 04	982404005520051	400	2.54
GSA EU 05	982405015520051	500	2.54
GSA EU 06	982406315520051	630	2.54
GSA EU 08	982408015520051	800	2.54
GSA EU 10	982410015520051	1000	2.60
GSA EU 12	982412515520051	1250	3.16
GSA EU 17	982417005520051	1600	3.44
GSA EU 20	982420005520051	2000	4.04
GSA EU 26	982426005520101	2500	4.71
GSA EU 31	982431005520101	3200	4.99
GSA EU 41	982441005520101	4000	6.08
GSA EU 50	982450005520151	5000	7.25
GSA EU 60	982460005520201	6300	11,51

GSC

GSC EU 04	992404005510051	400	2.54
GSC EU 05	992405015510051	500	2.54
GSC EU 06	992406315510051	630	2.54
GSC EU 08	992408015510051	800	2.54
GSC EU 10	992410015510051	1000	2.54
GSC EU 12	992412515510051	1250	2.60
GSC EU 16	992416015510051	1600	3.16
GSC EU 20	992420015510051	2000	3.44
GSC EU 25	992425005510101	2500	4.04
GSC EU 33	992433005510101	3200	4.71
GSC EU 42	992442005510101	4000	4.99
GSC EU 50	992450015510151	5000	6.08
GSC EU 60	992460005510151	6300	7.25



Mechanical Dilatation Element 3P+N+1/2 PE

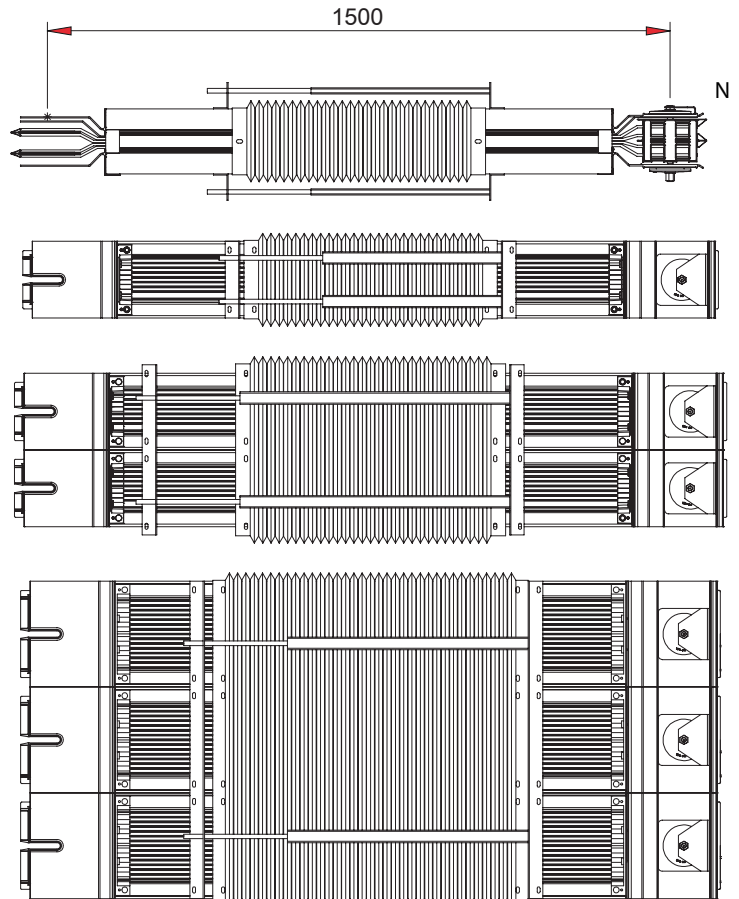
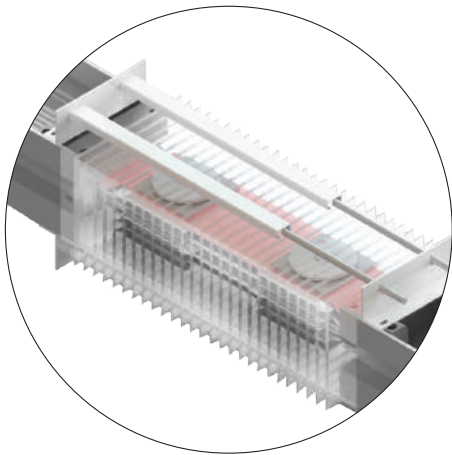


GSA

Order code	Stock code	Amper A	Weight (Kg/Unit)
GSA YMDE 04	981104005520053	400	29.62
GSA YMDE 05	981105015520053	500	29.62
GSA YMDE 06	981106315520053	630	29.62
GSA YMDE 08	981108015520053	800	29.62
GSA YMDE 10	981110015520053	1000	31.92
GSA YMDE 12	981112515520053	1250	37.81
GSA YMDE 17	981117005520053	1600	61.06
GSA YMDE 20	981120005520053	2000	79.64
GSA YMDE 26	981126005520103	2500	101.72
GSA YMDE 31	981131005520103	3200	115.38
GSA YMDE 41	981141005520103	4000	156.96
GSA YMDE 50	981150005520153	5000	232.12
GSA YMDE 60	981160005520203	6300	313.92

GSC

GSC YMDE 04	991104005510053	400	40.61
GSC YMDE 05	991105015510053	500	40.61
GSC YMDE 06	991106315510053	630	40.61
GSC YMDE 08	991108015510053	800	40.61
GSC YMDE 10	991110015510053	1000	40.61
GSC YMDE 12	991112515510053	1250	45.46
GSC YMDE 16	991116015510053	1600	56.50
GSC YMDE 20	991120015510053	2000	79.31
GSC YMDE 25	991125005510103	2500	108.79
GSC YMDE 33	991133005510103	3200	160.54
GSC YMDE 42	991142005510103	4000	186.61
GSC YMDE 50	991150015510153	5000	220.05
GSC YMDE 60	991160005510153	6300	377.85



The expansion joint element must be inserted where there are structural expansion of the building.

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Horizontal Expansion Element 3P+N+1/2 PE

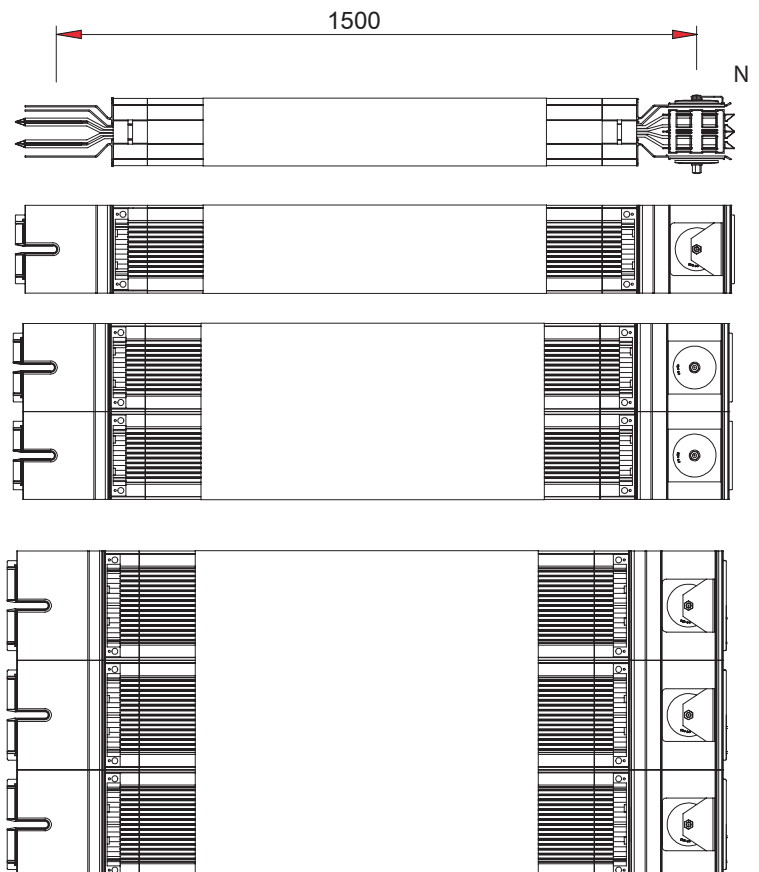
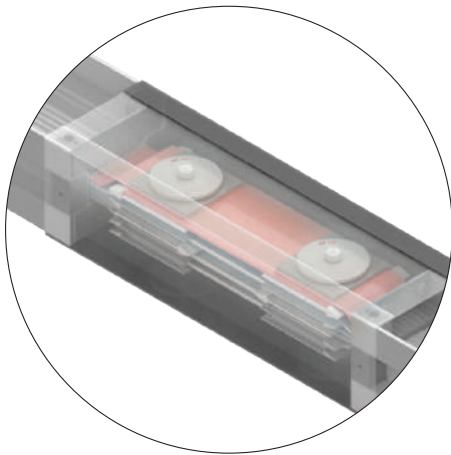


GSA

Order code	Stock code	Amper A	Weight (Kg/Unit)
GSA YDE 04	981104005520050	400	23.47
GSA YDE 05	981105015520050	500	23.47
GSA YDE 06	981106315520050	630	23.47
GSA YDE 08	981108015520050	800	23.47
GSA YDE 10	981110015520050	1000	27.31
GSA YDE 12	981112515520050	1250	32.61
GSA YDE 17	981117005520050	1600	53.23
GSA YDE 20	981120005520050	2000	73.03
GSA YDE 26	981126005520100	2500	94.16
GSA YDE 31	981131005520100	3200	106.19
GSA YDE 41	981141005520100	4000	147.53
GSA YDE 50	981150005520150	5000	220.91
GSA YDE 60	981160005520200	6300	276.35

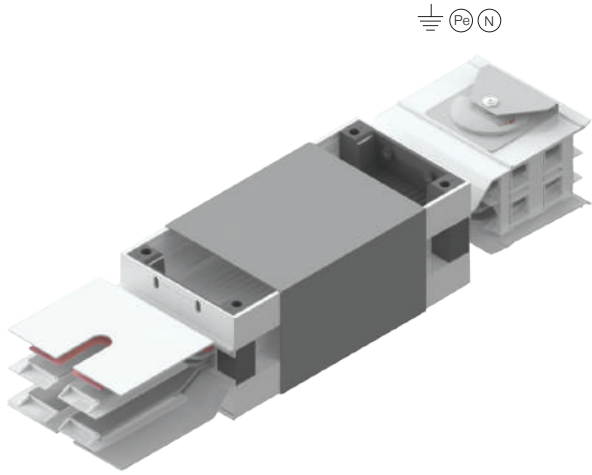
GSC

GSC YDE 04	991104005510051	400	34.45
GSC YDE 05	991105015510051	500	34.45
GSC YDE 06	991106315510051	630	34.45
GSC YDE 08	991108015510051	800	34.45
GSC YDE 10	991110015510051	1000	34.45
GSC YDE 12	991112515510051	1250	40.85
GSC YDE 16	991116015510051	1600	51.06
GSC YDE 20	991120015510051	2000	73.60
GSC YDE 25	991125005510101	2500	106.66
GSC YDE 33	991133005510101	3200	152.98
GSC YDE 42	991142005510101	4000	175.33
GSC YDE 50	991150015510151	5000	227.86
GSC YDE 60	991160005510151	6300	363.37



The expansion joint element must be inserted
1 in long straight line every ~ 40 meter.

Vertical Expansion Element 3P+N+1/2 PE

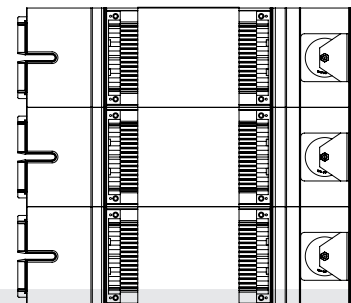
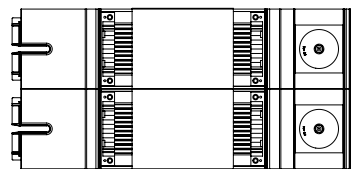
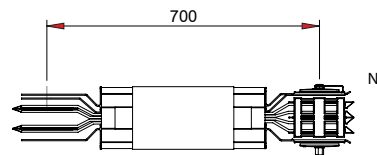
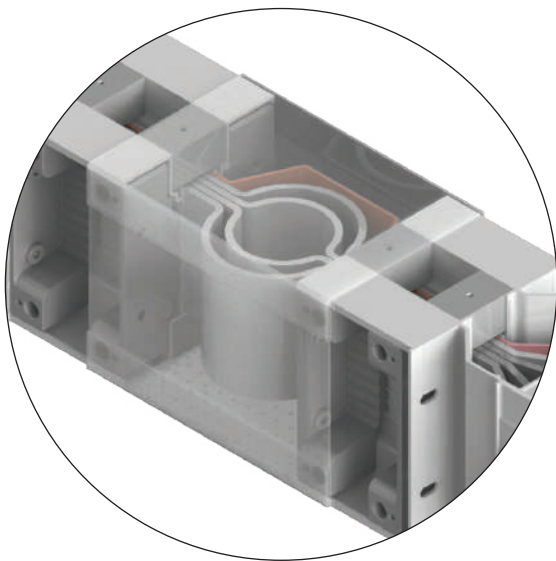


GSA

Order code	Stock code	Amper A	Weight (Kg/Unit)
GSA DDE 04	981104005520051	400	15.60
GSA DDE 05	981105015520051	500	15.60
GSA DDE 06	981106315520051	630	15.60
GSA DDE 08	981108015520051	800	15.60
GSA DDE 10	981110015520051	1000	14.08
GSA DDE 12	981112515520051	1250	15.97
GSA DDE 17	981117005520051	1600	22.19
GSA DDE 20	981120005520051	2000	27.78
GSA DDE 26	981126005520101	2500	42.72
GSA DDE 31	981131005520101	3200	44.93
GSA DDE 41	981141005520101	4000	56.49
GSA DDE 50	981150005520151	5000	85.21
GSA DDE 60	981160005520201	6300	109.43

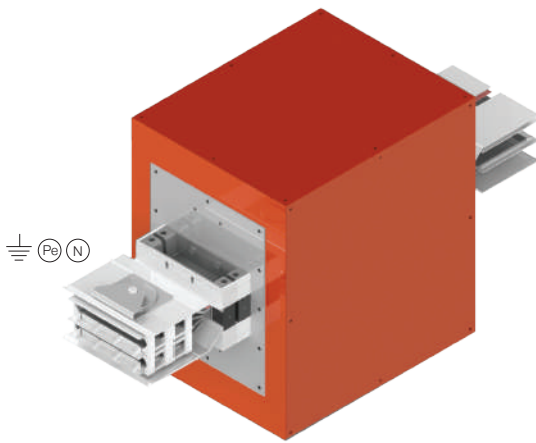
GSC

GSC DDE 04	991104005510052	400	22.87
GSC DDE 05	991105015510052	500	22.87
GSC DDE 06	991106315510052	630	22.87
GSC DDE 08	991108015510052	800	22.87
GSC DDE 10	991110015510052	1000	22.87
GSC DDE 12	991112515510052	1250	22.38
GSC DDE 16	991116015510052	1600	34.58
GSC DDE 20	991120015510052	2000	36.71
GSC DDE 25	991125005510102	2500	55.23
GSC DDE 33	991133005510102	3200	79.33
GSC DDE 42	991142005510102	4000	89.40
GSC DDE 50	991150015510152	5000	111.87
GSC DDE 60	991160005510152	6300	179.64



SUPER COMPACT BUSBAR TRUNKING SYSTEMS

Phase-Neutral Transposition Element 3P+N+1/2 PE

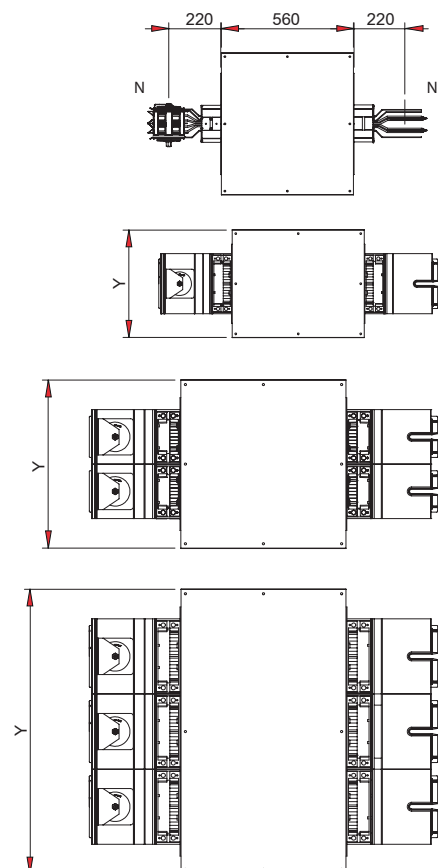


GSA

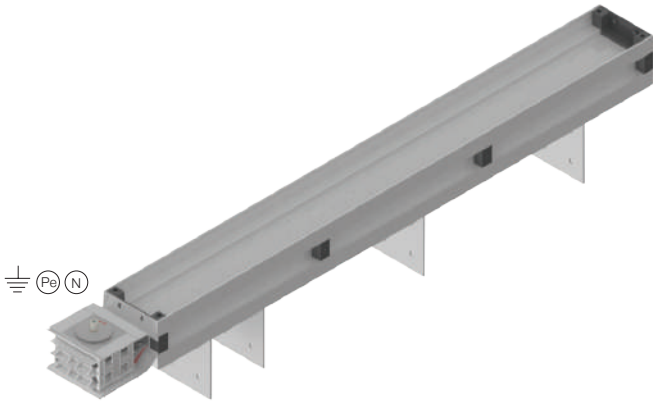
Order code	Stock code	Amper A	Weight (Kg/Unit)
GSA PDC 04	987004005520050	400	33.13
GSA PDC 05	987005015520050	500	33.13
GSA PDC 06	987006315520050	630	33.13
GSA PDC 08	987008015520050	800	33.13
GSA PDC 10	987010015520050	1000	35.17
GSA PDC 12	987012515520050	1250	38.88
GSA PDC 17	987017005520050	1600	47.42
GSA PDC 20	987020005520050	2000	55.80
GSA PDC 26	987026005520100	2500	78.55
GSA PDC 31	987031005520100	3200	83.04
GSA PDC 41	987041005520100	4000	101.27
GSA PDC 50	987050005520150	5000	142.11
GSA PDC 60	987060005520200	6300	109.43

GSC

GSC PDC 04	997004005510051	400	42.27
GSC PDC 05	997005015510051	500	42.27
GSC PDC 06	997006315510051	630	42.27
GSC PDC 08	997008015510051	800	42.27
GSC PDC 10	997010015510051	1000	42.27
GSC PDC 12	997012515510051	1250	46.18
GSC PDC 16	997016015510051	1600	53.39
GSC PDC 20	997020015510051	2000	66.19
GSC PDC 25	997025005510101	2500	96.20
GSC PDC 33	997033005510101	3200	127.31
GSC PDC 42	997042005510101	4000	140.29
GSC PDC 50	997050015510151	5000	170.87
GSC PDC 60	997060005510151	6300	263.12



Cast Resin Transformer Element (Right) 3P+N+1/2 PE



This material is designed for Cast Resin type transformer models. Because of different variety of the transformer X, Y, Z, T and U can change. Please inform these lengths and the neutral side when ordering.

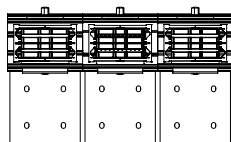
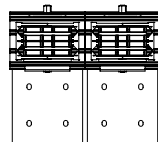
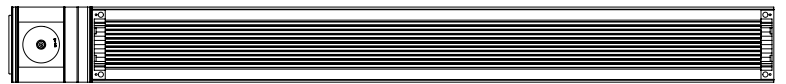
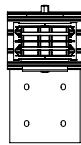
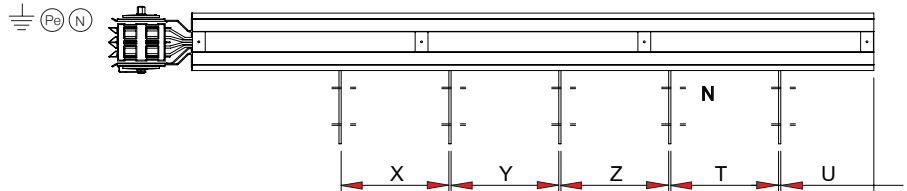
Please inform your request for special angle or vertical + horizontal elbow combinations.

GSA

Order code	Stock code	Amper A	Weight (Kg/Unit)
GSA PTS 04R	980904005520050	400	22.19
GSA PTS 05R	980905015520050	500	22.19
GSA PTS 06R	980906315520050	630	22.19
GSA PTS 08R	980908015520050	800	22.19
GSA PTS 10R	980910015520050	1000	22.46
GSA PTS 12R	980912515520050	1250	26.07
GSA PTS 17R	980917005520050	1600	38.40
GSA PTS 20R	980920005520050	2000	47.15
GSA PTS 26R	980926005520100	2500	73.24
GSA PTS 31R	980931005520100	3200	79.84
GSA PTS 41R	980941005520100	4000	96.71
GSA PTS 50R	980950005520150	5000	144.99
GSA PTS 60R	980960005520200	6300	185.96

GSC

GSC PTS 04R	990904005510051	400	34.10
GSC PTS 05R	990905015510051	500	34.10
GSC PTS 06R	990906315510051	630	34.10
GSC PTS 08R	990908015510051	800	34.10
GSC PTS 10R	990910015510051	1000	34.10
GSC PTS 12R	990912515510051	1250	37.03
GSC PTS 16R	990916015510051	1600	45.37
GSC PTS 20R	990920015510051	2000	63.55
GSC PTS 25R	990925005510101	2500	97.80
GSC PTS 33R	990933005510101	3200	133.86
GSC PTS 42R	990942005510101	4000	151.70
GSC PTS 50R	990950015510151	5000	199.80
GSC PTS 60R	990960005510151	6300	296.58



SUPER COMPACT BUSBAR TRUNKING SYSTEMS

Cast Resin Transformer Element (Left) 3P+N+1/2 PE



This material is designed for Cast Resin type transformer models. Because of different variety of the transformer X, Y, Z, T and U can change. Please inform these lengths and the neutral side when ordering.

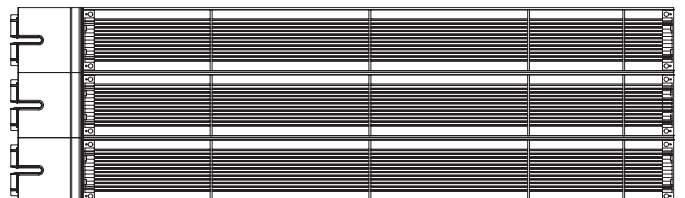
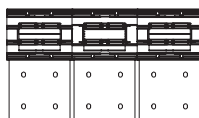
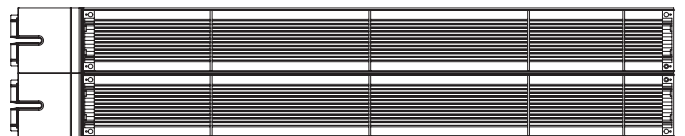
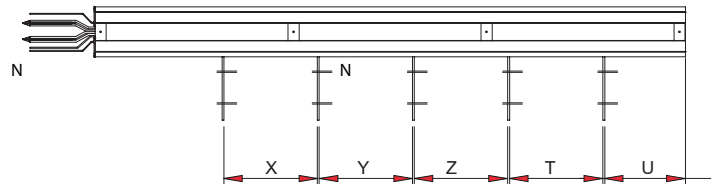
Please inform your request for special angle or vertical + horizontal elbow combinations.

GSA

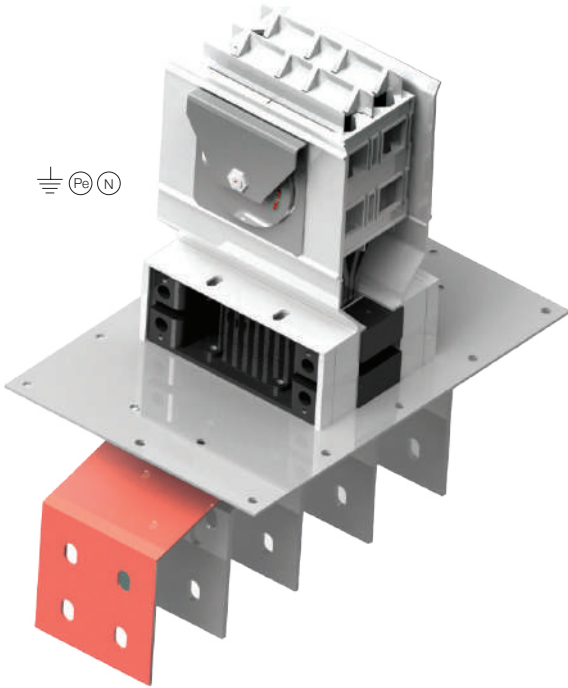
Order code	Stock code	Amper A	Weight (Kg/Unit)
GSA PTS 04L	980904005520051	400	20.00
GSA PTS 05L	980905015520051	500	20.00
GSA PTS 06L	980906315520051	630	20.00
GSA PTS 08L	980908015520051	800	20.00
GSA PTS 10L	980910015520051	1000	21.52
GSA PTS 12L	980912515520051	1250	24.77
GSA PTS 17L	980917005520051	1600	37.02
GSA PTS 20L	980920005520051	2000	45.44
GSA PTS 26L	980926005520101	2500	68.24
GSA PTS 31L	980931005520101	3200	74.91
GSA PTS 41L	980941005520101	4000	91.22
GSA PTS 50L	980950005520151	5000	137.61
GSA PTS 60L	980960005520201	6300	178.60

GSC

GSC PTS 04L	990904005510052	400	31.91
GSC PTS 05L	990905015510052	500	31.91
GSC PTS 06L	990906315510052	630	31.91
GSC PTS 08L	990908015510052	800	31.91
GSC PTS 10L	990910015510052	1000	31.91
GSC PTS 12L	990912515510052	1250	35.50
GSC PTS 16L	990916015510052	1600	43.82
GSC PTS 20L	990920015510052	2000	62.20
GSC PTS 25L	990925005510102	2500	89.97
GSC PTS 33L	990933005510102	3200	124.64
GSC PTS 42L	990942005510102	4000	140.91
GSC PTS 50L	990950015510152	5000	184.73
GSC PTS 60L	990960005510152	6300	274.61



Panel - Transformer Side Element (Right) 3P+N+1/2 PE

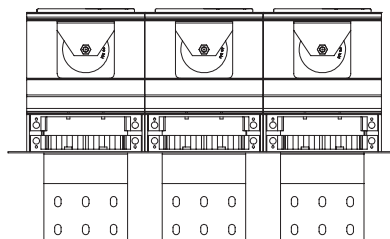
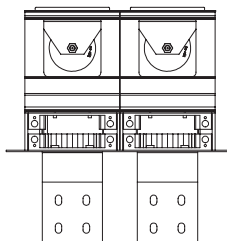
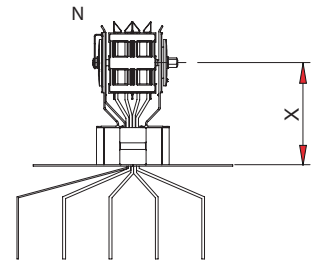
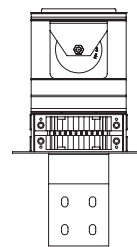


GSA

Order code	Stock code	Amper A	X mm	Weight (Kg/Unit)
GSA TS 04R	980704005520050	400	220	12.04
GSA TS 05R	980705015520050	500	220	12.04
GSA TS 06R	980706315520050	630	220	12.04
GSA TS 08R	980708015520050	800	220	12.04
GSA TS 10R	980710015520050	1000	220	12.80
GSA TS 12R	980712515520050	1250	220	14.20
GSA TS 17R	980717005520050	1600	220	16.85
GSA TS 20R	980720005520050	2000	220	21.47
GSA TS 26R	980726005520100	2500	220	34.50
GSA TS 31R	980731005520100	3200	220	39.51
GSA TS 41R	980741005520100	4000	220	49.00
GSA TS 50R	980750005520150	5000	220	81.34
GSA TS 60R	980760005520200	6300	220	95.88

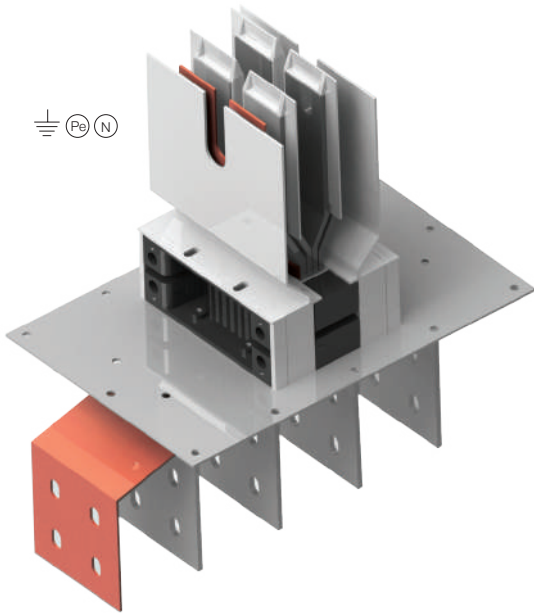
GSC

GSC TS 04R	990704005510051	400	220	16.51
GSC TS 05R	990705015510051	500	220	16.51
GSC TS 06R	990706315510051	630	220	16.51
GSC TS 08R	990708015510051	800	220	16.51
GSC TS 10R	990710015510051	1000	220	16.51
GSC TS 12R	990712515510051	1250	220	17.92
GSC TS 16R	990716015510051	1600	220	21.21
GSC TS 20R	990720015510051	2000	220	27.47
GSC TS 25R	990725005510101	2500	220	46.50
GSC TS 33R	990733005510101	3200	220	59.00
GSC TS 42R	990742005510101	4000	220	66.62
GSC TS 50R	990750015510151	5000	220	89.81
GSC TS 60R	990760005510151	6300	220	131.32



SUPER COMPACT BUSBAR TRUNKING SYSTEMS

Panel - Transformer Side Element (Left) 3P+N+1/2 PE

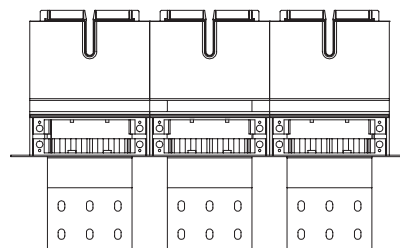
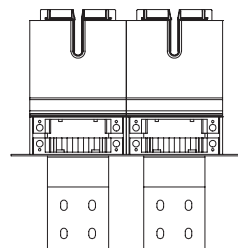
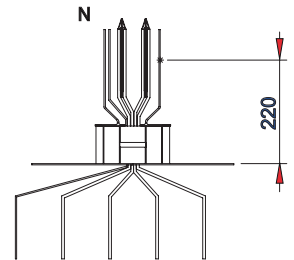
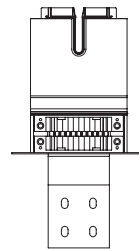


GSA

Order code	Stock code	Amper A	X mm	Weight (Kg/Unit)
GSA TS 04L	980704005520051	400	220	9.74
GSA TS 05L	980705015520051	500	220	9.74
GSA TS 06L	980706315520051	630	220	9.74
GSA TS 08L	980708015520051	800	220	9.74
GSA TS 10L	980710015520051	1000	220	10.15
GSA TS 12L	980712515520051	1250	220	11.36
GSA TS 17L	980717005520051	1600	220	15.01
GSA TS 20L	980720005520051	2000	220	18.84
GSA TS 26L	980726005520101	2500	220	27.92
GSA TS 31L	980731005520101	3200	220	29.33
GSA TS 41L	980741005520101	4000	220	25.87
GSA TS 50L	980750005520151	5000	220	52.86
GSA TS 60L	980760005520201	6300	220	71.31

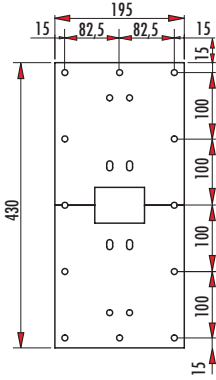
GSC

GSC TS 04L	990704005510052	400	220	14.20
GSC TS 05L	990705015510052	500	220	14.20
GSC TS 06L	990706315510052	630	220	14.20
GSC TS 08L	990708015510052	800	220	14.20
GSC TS 10L	990710015510052	1000	220	14.20
GSC TS 12L	990712515510052	1250	220	15.28
GSC TS 16L	990716015510052	1600	220	18.36
GSC TS 20L	990720015510052	2000	220	24.15
GSC TS 25L	990725005510102	2500	220	38.76
GSC TS 33L	990733005510102	3200	220	48.30
GSC TS 42L	990742005510102	4000	220	55.35
GSC TS 50L	990750015510152	5000	220	75.15
GSC TS 60L	990760005510152	6300	220	106.89

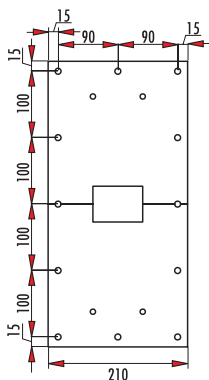


Technical Details of Switchboard Feed and Transformer Side Element

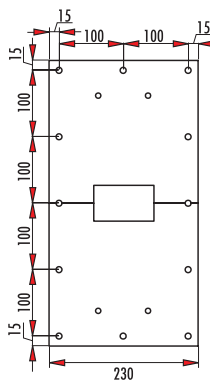
GSA 400-630-800A
GSC 400-500-630-800-1000A



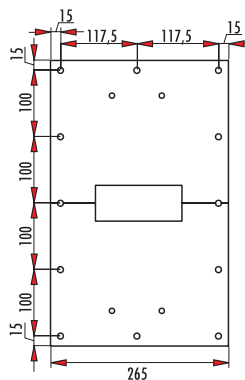
GSA 1000A
GSC 1250A



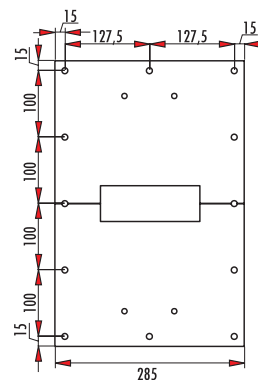
GSA 1250A
GSC 1600A



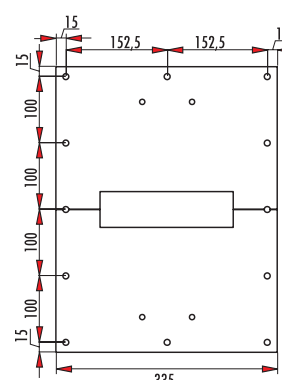
GSC 2000A



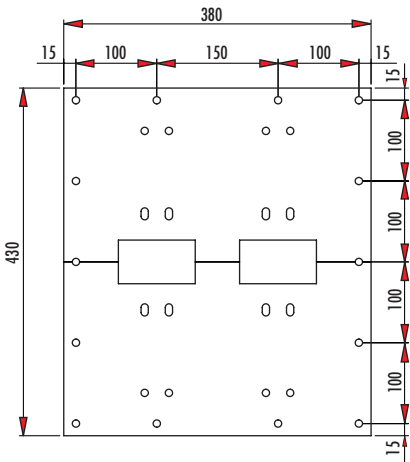
GSA 1600A



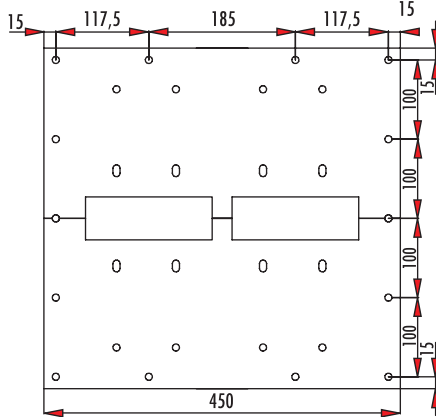
GSA 2000A



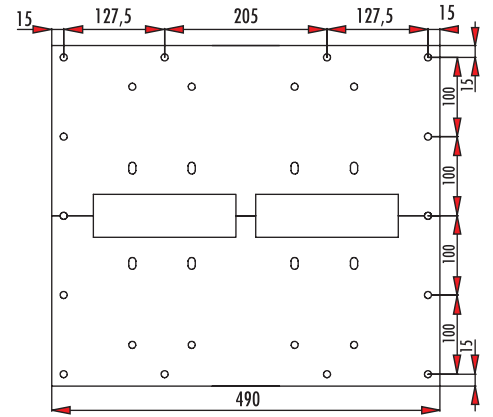
GSC 2500A



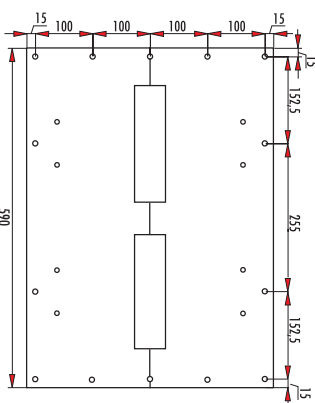
GSA 2500A
GSC 3200A



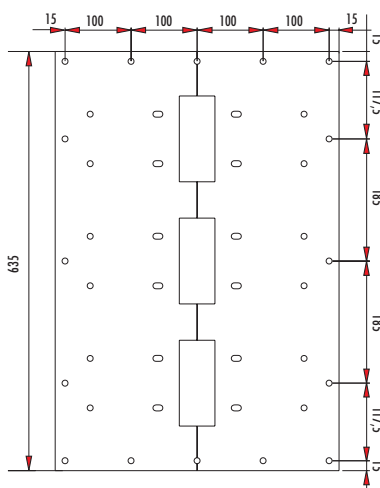
GSA 3200A
GSC 4000A



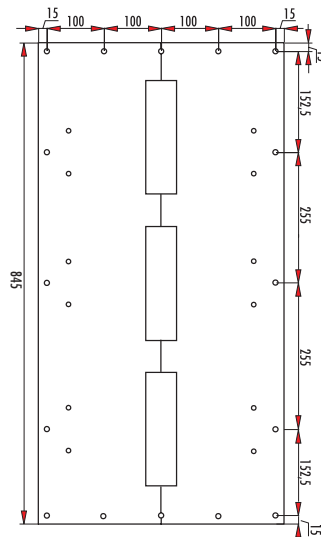
GSA 4000A



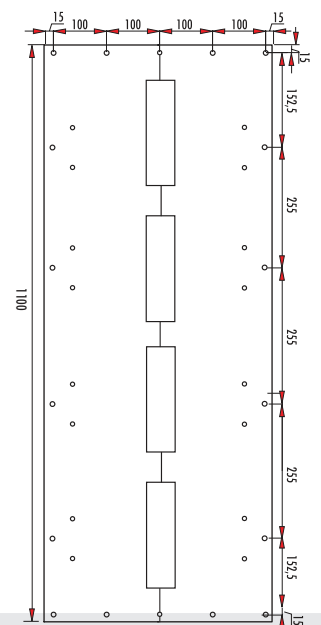
GSC 5000A



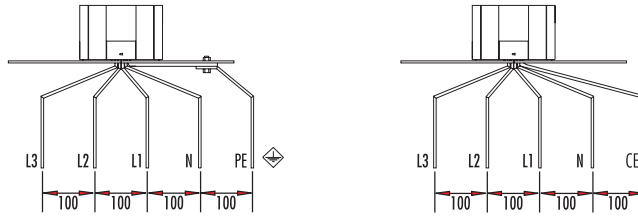
GSA 5000A
GSC 6300A



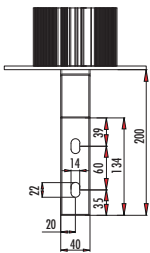
GSA 6300A



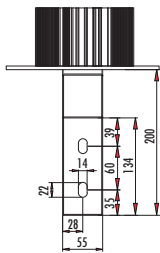
Technical Details of Switchboard Feed and Transformer Side Element



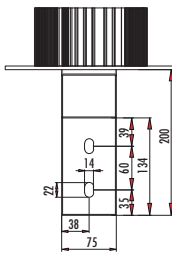
GSA 400-500-630-800A
GSC 400-500-630-800-1000A



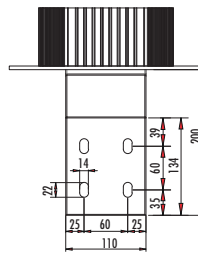
GSA 1000A
GSC 1250A



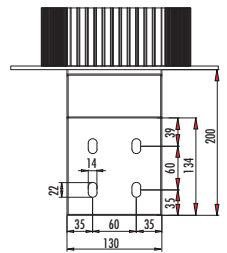
GSA 1250A
GSC 1600A



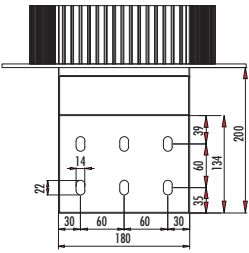
GSC 2000A



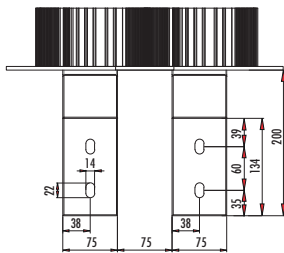
GSA 1600A



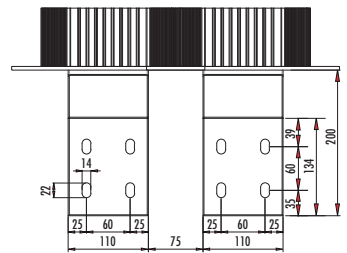
GSA 2000A



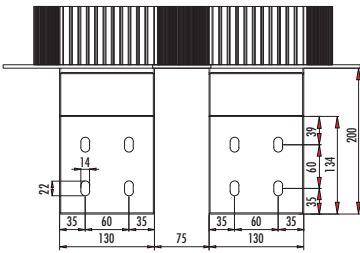
GSC 2500A



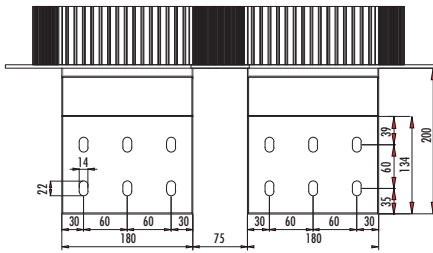
GSA 2500A
GSC 3200A



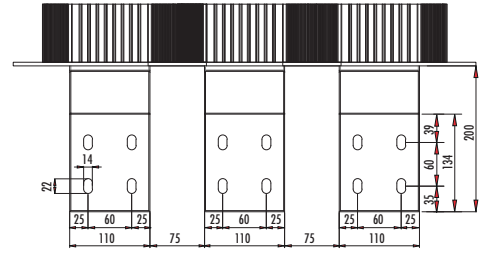
GSA 3200A
GSC 4000A



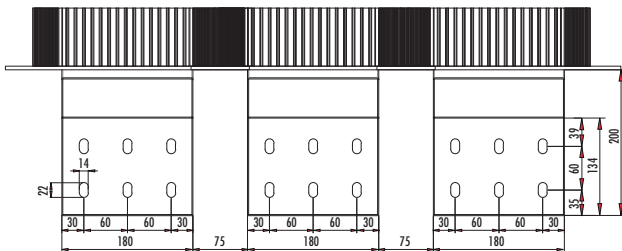
GSA 4000A



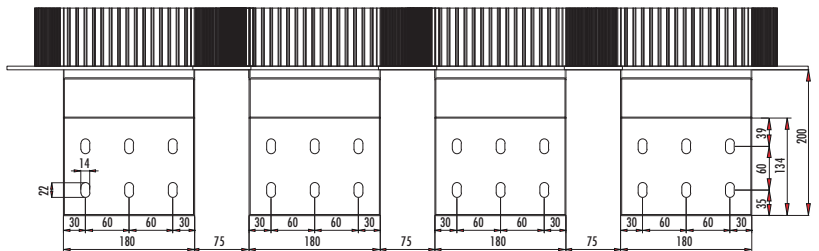
GSC 5000A



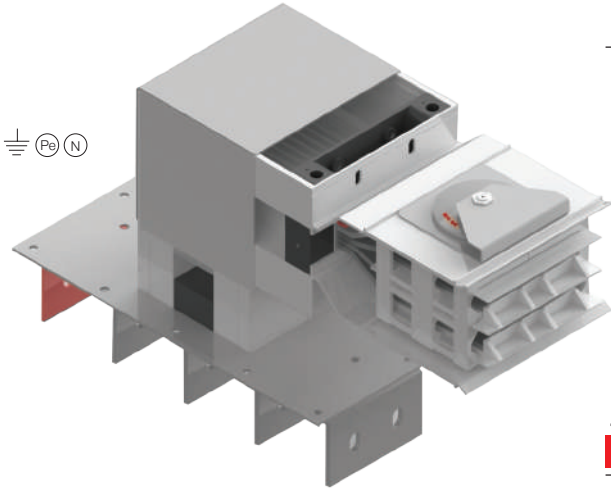
GSA 5000A
GSC 6300A



GSA 6300A



Panel - Transformer Side 90° Vertical Elbow Element (Right) 3P+N+1/2 PE

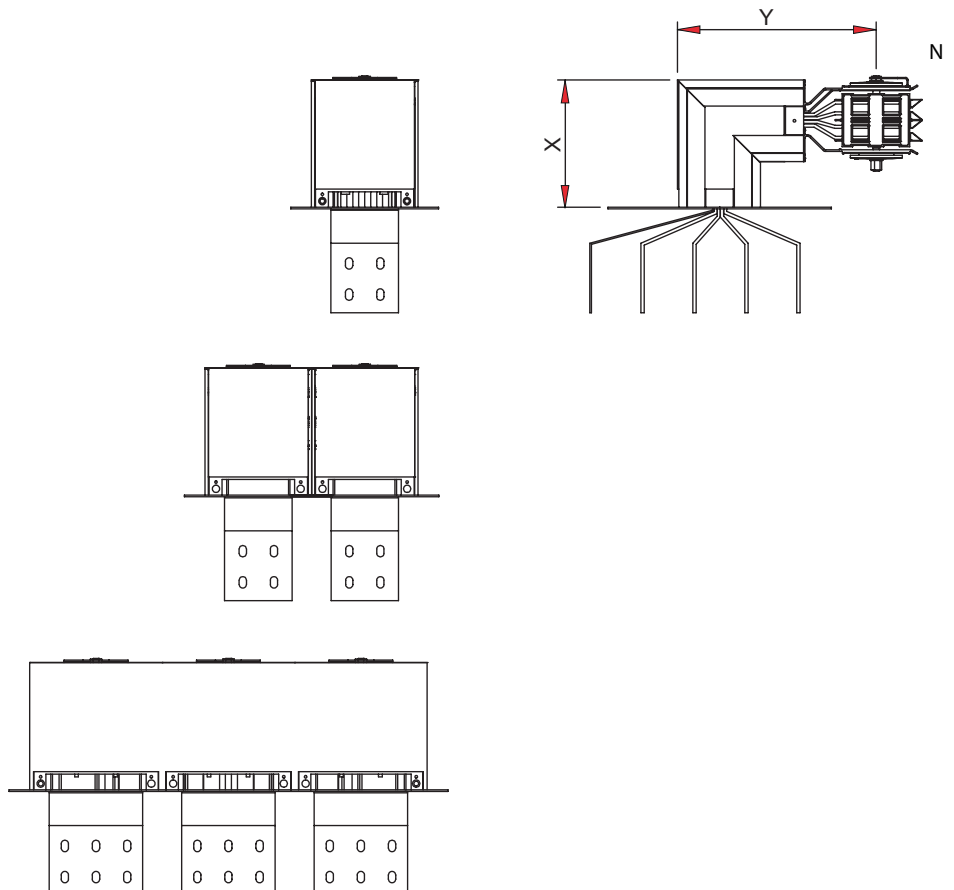


GSA

Order code	Stock code	Amper A	X mm	Y mm	Weight (Kg/Unit)
GSA PVE 04RR	984004005520050	400	245	380	16.76
GSA PVE 05RR	984005015520050	500	245	380	16.76
GSA PVE 06RR	984006315520050	630	245	380	16.76
GSA PVE 08RR	984008015520050	800	245	380	16.76
GSA PVE 10RR	984010015520050	1000	245	380	17.56
GSA PVE 12RR	984012515520050	1250	245	380	19.18
GSA PVE 17RR	984017005520050	1600	245	380	24.67
GSA PVE 20RR	984020005520050	2000	245	380	29.67
GSA PVE 26RR	984026005520100	2500	245	380	47.32
GSA PVE 31RR	984031005520100	3200	245	380	52.10
GSA PVE 41RR	984041005520100	4000	245	380	64.22
GSA PVE 50RR	984050005520150	5000	245	380	104.86
GSA PVE 60RR	984060005520200	6300	245	380	125.10

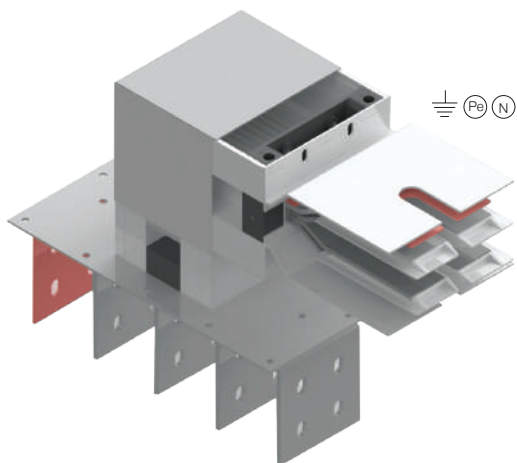
GSC

GSC PVE 04RR	994004005510051	400	245	380	22.91
GSC PVE 05RR	994005015510051	500	245	380	22.91
GSC PVE 06RR	994006315510051	630	245	380	22.91
GSC PVE 08RR	994008015510051	800	245	380	22.91
GSC PVE 10RR	994010015510051	1000	245	380	22.91
GSC PVE 12RR	994012515510051	1250	245	380	24.30
GSC PVE 16RR	994016015510051	1600	245	380	29.77
GSC PVE 20RR	994020015510051	2000	245	380	37.65
GSC PVE 25RR	994025005510101	2500	245	380	68.84
GSC PVE 33RR	994033005510101	3200	245	380	78.22
GSC PVE 42RR	994042005510101	4000	245	380	88.60
GSC PVE 50RR	994050015510151	5000	245	380	120.35
GSC PVE 60RR	994060005510151	6300	245	380	173.43



SUPER COMPACT BUSBAR TRUNKING SYSTEMS

Panel - Transformer Side 90° Vertical Elbow Element (Left) 3P+N+1/2 PE

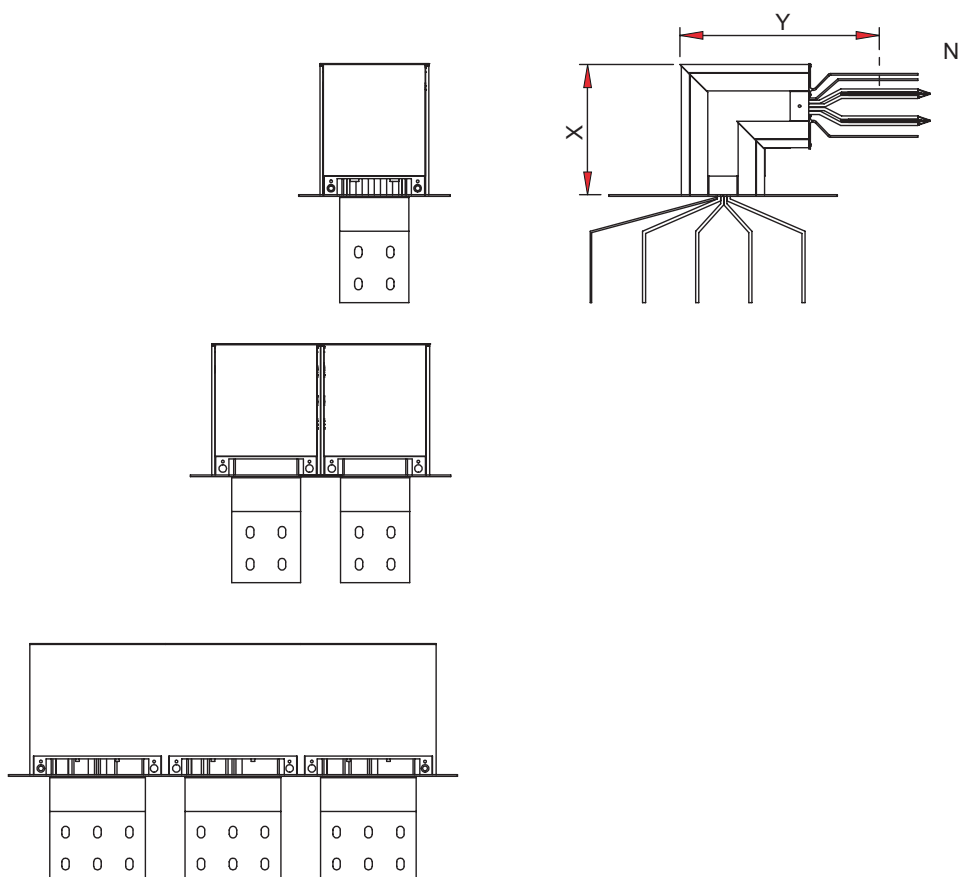


GSA

Order code	Stock code	Amper A	X mm	Y mm	Weight (Kg/Unit)
GSA PVE 04RL	984004005520052	400	245	380	14.45
GSA PVE 05RL	984005015520052	500	245	380	14.45
GSA PVE 06RL	984006315520052	630	245	380	14.45
GSA PVE 08RL	984008015520052	800	245	380	14.45
GSA PVE 10RL	984010015520052	1000	245	380	15.45
GSA PVE 12RL	984012515520052	1250	245	380	17.29
GSA PVE 17RL	984017005520052	1600	245	380	22.94
GSA PVE 20RL	984020005520052	2000	245	380	27.00
GSA PVE 26RL	984026005520102	2500	245	380	42.85
GSA PVE 31RL	984031005520102	3200	245	380	47.17
GSA PVE 41RL	984041005520102	4000	245	380	58.22
GSA PVE 50RL	984050005520152	5000	245	380	94.74
GSA PVE 60RL	984060005520202	6300	245	380	114.12

GSC

GSC PVE 04RL	994004005510053	400	245	380	20.60
GSC PVE 05RL	994005015510053	500	245	380	20.60
GSC PVE 06RL	994006315510053	630	245	380	20.60
GSC PVE 08RL	994008015510053	800	245	380	20.60
GSC PVE 10RL	994010015510053	1000	245	380	20.60
GSC PVE 12RL	994012515510053	1250	245	380	22.68
GSC PVE 16RL	994016015510053	1600	245	380	27.07
GSC PVE 20RL	994020015510053	2000	245	380	35.81
GSC PVE 25RL	994025005510103	2500	245	380	52.49
GSC PVE 33RL	994033005510103	3200	245	380	69.07
GSC PVE 42RL	994042005510103	4000	245	380	92.91
GSC PVE 50RL	994050015510153	5000	245	380	103.50
GSC PVE 60RL	994060005510153	6300	245	380	150.82



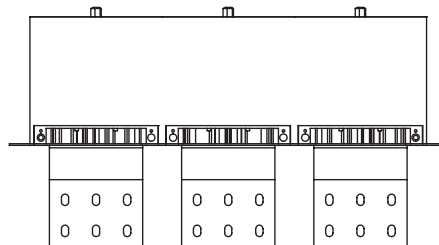
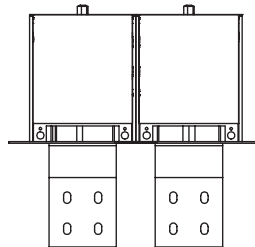
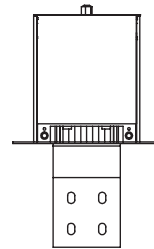
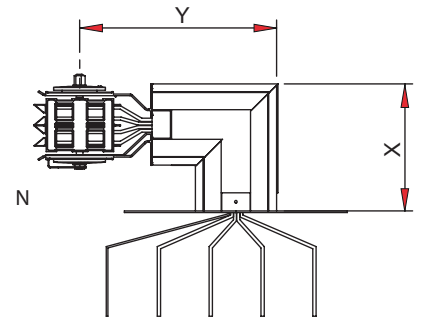
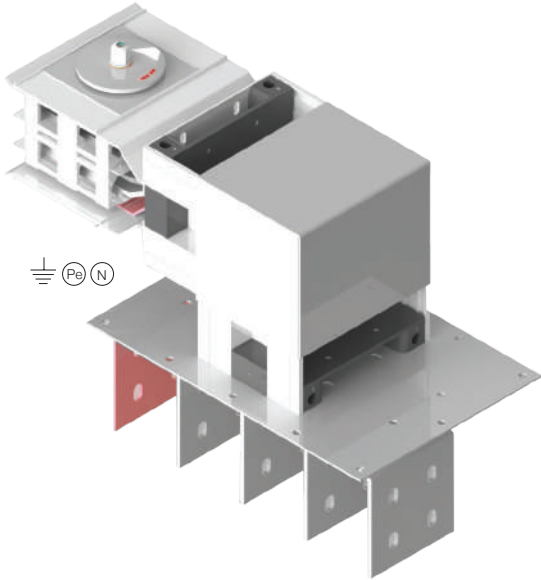
Panel - Transformer Side 90° Vertical Elbow Element (Right) 3P+N+1/2 PE

GSA

Order code	Stock code	Amper A	X mm	Y mm	Weight (Kg/Unit)
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GSA PVE 05LR	984105015520050	500	245	380	16.76
GSA PVE 06LR	984106315520050	630	245	380	16.76
GSA PVE 08LR	984108015520050	800	245	380	16.76
GSA PVE 10LR	984110015520050	1000	245	380	17.56
GSA PVE 12LR	984112515520050	1250	245	380	19.18
GSA PVE 17LR	984117005520050	1600	245	380	24.67
GSA PVE 20LR	984120005520050	2000	245	380	29.67
GSA PVE 26LR	984126005520100	2500	245	380	47.32
GSA PVE 31LR	984131005520100	3200	245	380	52.10
GSA PVE 41LR	984141005520100	4000	245	380	64.22
GSA PVE 50LR	984150005520150	5000	245	380	104.86
GSA PVE 60LR	984160005520200	6300	245	380	125.1

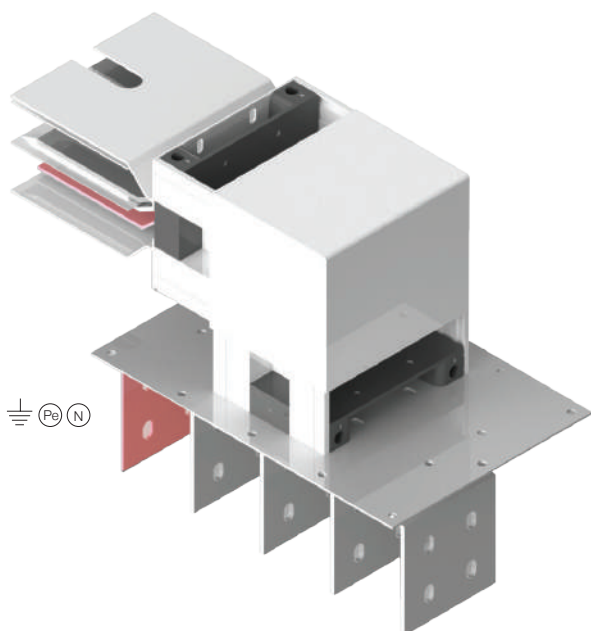
GSC

GSC PVE 04LR	994104005510051	400	245	380	22.91
GSC PVE 05LR	994105015510051	500	245	380	22.91
GSC PVE 06LR	994106315510051	630	245	380	22.91
GSC PVE 08LR	994108015510051	800	245	380	22.91
GSC PVE 10LR	994110015510051	1000	245	380	22.91
GSC PVE 12LR	994112515510051	1250	245	380	24.30
GSC PVE 16LR	994116015510051	1600	245	380	29.77
GSC PVE 20LR	994120015510051	2000	245	380	37.65
GSC PVE 25LR	994125005510101	2500	245	380	68.84
GSC PVE 33LR	994133005510101	3200	245	380	78.22
GSC PVE 42LR	994142005510101	4000	245	380	88.60
GSC PVE 50LR	994150015510151	5000	245	380	120.35
GSC PVE 60LR	994160005510151	6300	245	380	173.43



SUPER COMPACT BUSBAR TRUNKING SYSTEMS

Panel - Transformer Side 90° Vertical Elbow Element (Left) 3P+N+1/2 PE

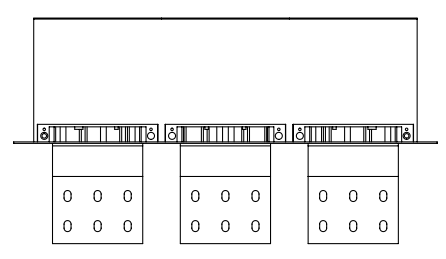
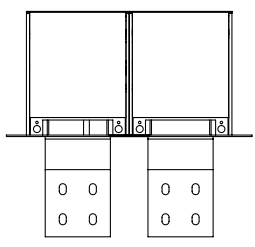
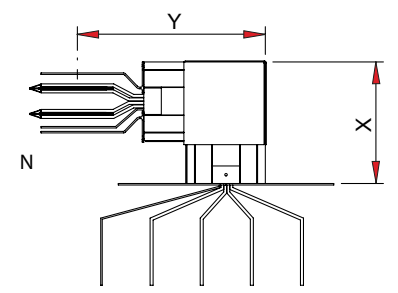
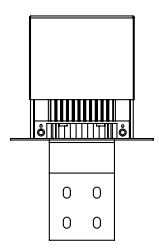


GSA

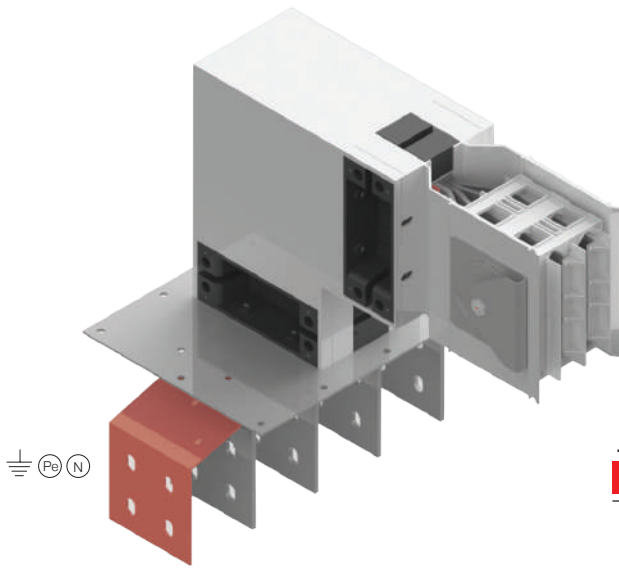
Order code	Stock code	Amper A	X mm	Y mm	Weight (Kg/Unit)
GSA PVE 04LL	984104005520052	400	245	380	14.45
GSA PVE 05LL	984105015520052	500	245	380	14.45
GSA PVE 06LL	984106315520052	630	245	380	14.45
GSA PVE 08LL	984108015520052	800	245	380	14.45
GSA PVE 10LL	984110015520052	1000	245	380	15.45
GSA PVE 12LL	984112515520052	1250	245	380	17.29
GSA PVE 17LL	984117005520052	1600	245	380	22.94
GSA PVE 20LL	984120005520052	2000	245	380	27.00
GSA PVE 26LL	984126005520102	2500	245	380	42.85
GSA PVE 31LL	984131005520102	3200	245	380	47.17
GSA PVE 41LL	984141005520102	4000	245	380	58.22
GSA PVE 50LL	984150005520152	5000	245	380	94.74
GSA PVE 60LL	984160005520202	6300	245	380	114.12

GSC

GSC PVE 04LL	994104005510053	400	245	380	20.60
GSC PVE 05LL	994105015510053	500	245	380	20.60
GSC PVE 06LL	994106315510053	630	245	380	20.60
GSC PVE 08LL	994108015510053	800	245	380	20.60
GSC PVE 10LL	994110015510053	1000	245	380	20.60
GSC PVE 12LL	994112515510053	1250	245	380	22.68
GSC PVE 16LL	994116015510053	1600	245	380	27.07
GSC PVE 20LL	994120015510053	2000	245	380	35.81
GSC PVE 25LL	994125005510103	2500	245	380	52.49
GSC PVE 33LL	994133005510103	3200	245	380	69.07
GSC PVE 42LL	994142005510103	4000	245	380	92.91
GSC PVE 50LL	994150015510153	5000	245	380	103.50
GSC PVE 60LL	994160005510153	6300	245	380	150.82



Panel - Transformer Side 90° Horizontal Elbow Element (Right) 3P+N+1/2 PE

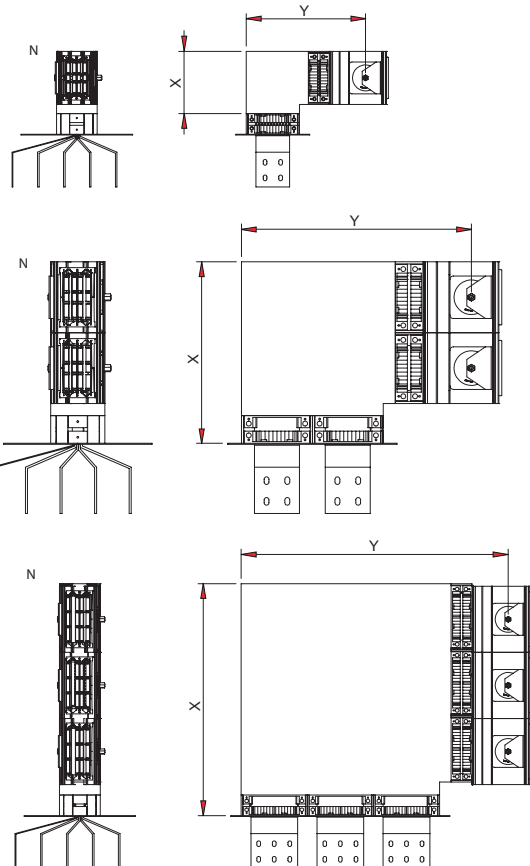


GSA

Order code	Stock code	Amper A	X mm	Y mm	Weight (Kg/Unit)
GSA PHE 04RR	984404005520050	400	235	370	17.74
GSA PHE 05RR	984405015520050	500	235	370	17.74
GSA PHE 06RR	984406315520050	630	235	370	17.74
GSA PHE 08RR	984408015520050	800	235	370	17.74
GSA PHE 10RR	984410015520050	1000	250	385	17.44
GSA PHE 12RR	984412515520050	1250	265	410	20.52
GSA PHE 17RR	984417005520050	1600	320	460	31.06
GSA PHE 20RR	984420005520050	2000	375	520	40.45
GSA PHE 26RR	984426005520100	2500	485	625	62.80
GSA PHE 31RR	984431005520100	3200	525	665	69.56
GSA PHE 41RR	984441005520100	4000	630	775	93.14
GSA PHE 50RR	984450005520150	5000	885	1030	165.10
GSA PHE 60RR	984460005520200	6300	1140	1285	237.73

GSC

GSC PHE 04RR	994404005510051	400	235	370	24.95
GSC PHE 05RR	994405015510051	500	235	370	24.95
GSC PHE 06RR	994406315510051	630	235	370	24.95
GSC PHE 08RR	994408015510051	800	235	370	24.95
GSC PHE 10RR	994410015510051	1000	235	370	24.95
GSC PHE 12RR	994412515510051	1250	250	385	25.20
GSC PHE 16RR	994416015510051	1600	265	410	32.96
GSC PHE 20RR	994420015510051	2000	300	440	48.13
GSC PHE 25RR	994425005510101	2500	415	560	81.31
GSC PHE 33RR	994433005510101	3200	485	625	112.43
GSC PHE 42RR	994442005510101	4000	525	665	132.18
GSC PHE 50RR	994450015510151	5000	670	810	180.92
GSC PHE 60RR	994460005510151	6300	885	1030	333.08



SUPER COMPACT BUSBAR TRUNKING SYSTEMS

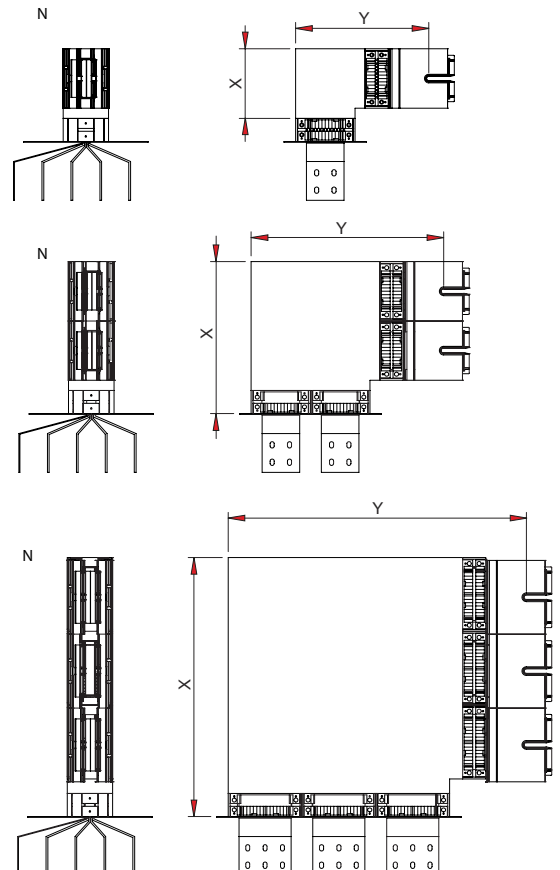
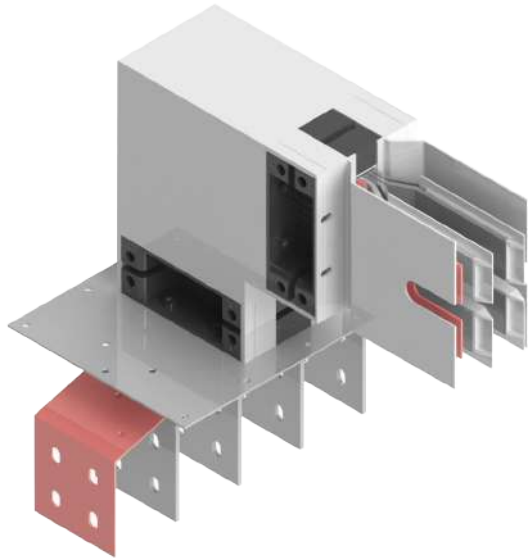
Panel - Transformer Side 90° Horizontal Elbow Element (Left) 3P+N+1/2 PE

GSA

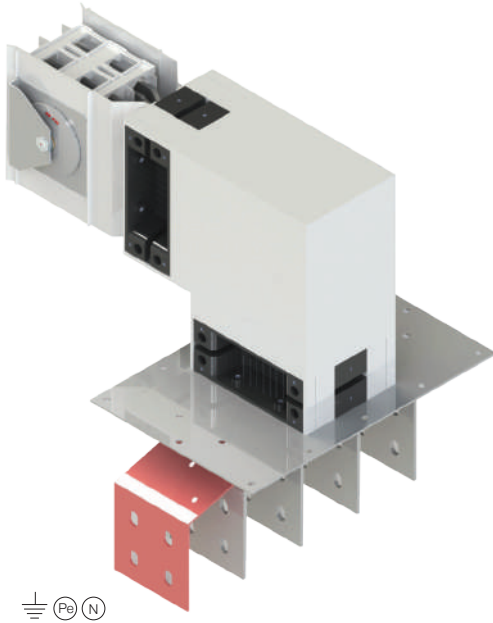
Order code	Stock code	Amper A	X mm	Y mm	Weight (Kg/Unit)
GSA PHE 04RL	984404005520051	400	235	370	15.43
GSA PHE 05RL	984405015520051	500	235	370	15.43
GSA PHE 06RL	984406315520051	630	235	370	15.43
GSA PHE 08RL	984408015520051	800	235	370	15.43
GSA PHE 10RL	984410015520051	1000	250	385	16.53
GSA PHE 12RL	984412515520051	1250	265	410	19.00
GSA PHE 17RL	984417005520051	1600	320	460	29.36
GSA PHE 20RL	984420005520051	2000	375	520	39.35
GSA PHE 26RL	984426005520101	2500	485	625	58.00
GSA PHE 31RL	984431005520101	3200	525	665	65.43
GSA PHE 41RL	984441005520101	4000	630	775	87.19
GSA PHE 50RL	98445000552015	5000	885	1030	156.68
GSA PHE 60RL	984460005520201	6300	1140	1285	227.31

GSC

GSC PHE 04RL	994404005510053	400	235	370	22.63
GSC PHE 05RL	994405015510053	500	235	370	22.63
GSC PHE 06RL	994406315510053	630	235	370	22.63
GSC PHE 08RL	994408015510053	800	235	370	22.63
GSC PHE 10RL	994410015510053	1000	235	370	22.63
GSC PHE 12RL	994412515510053	1250	250	385	25.26
GSC PHE 16RL	994416015510053	1600	265	410	31.43
GSC PHE 20RL	994420015510053	2000	300	440	45.80
GSC PHE 25RL	994425005510103	2500	415	560	76.37
GSC PHE 33RL	994433005510103	3200	485	625	103.31
GSC PHE 42RL	994442005510103	4000	525	665	121.96
GSC PHE 50RL	994450015510153	5000	670	810	180.18
GSC PHE 60RL	994460005510153	6300	885	1030	311.72



Panel - Transformer Side 90° Horizontal Elbow Element (Right) 3P+N+1/2 PE

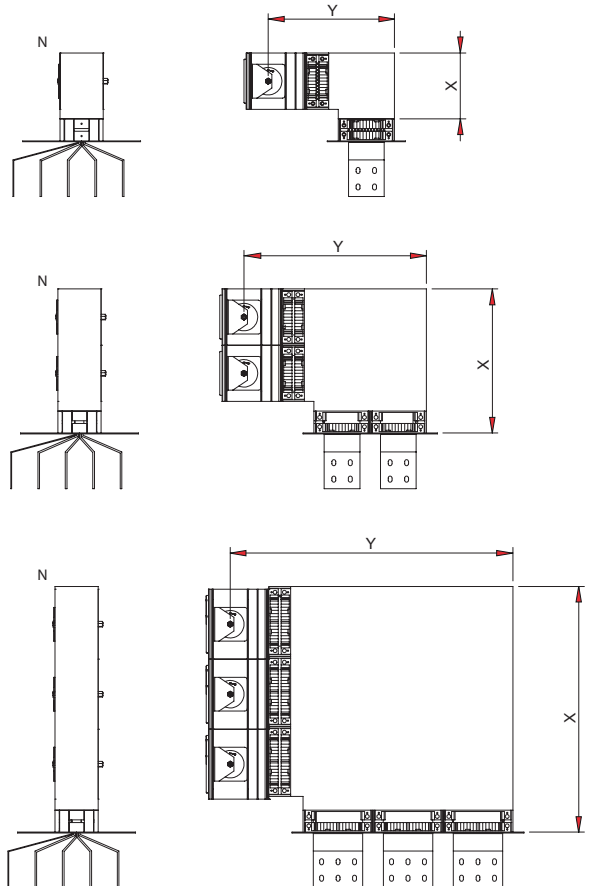


GSA

Order code	Stock code	Amper A	X mm	Y mm	Weight (Kg/Unit)
GSA PHE 04LR	984504005520050	400	235	370	17.74
GSA PHE 05LR	984505015520050	500	235	370	17.74
GSA PHE 06LR	984506315520050	630	235	370	17.74
GSA PHE 08LR	984508015520050	800	235	370	17.74
GSA PHE 10LR	984510015520050	1000	250	385	17.44
GSA PHE 12LR	984512515520050	1250	265	410	20.52
GSA PHE 17LR	984517005520050	1600	320	460	31.06
GSA PHE 20LR	984520005520050	2000	375	520	40.45
GSA PHE 26LR	984526005520100	2500	485	625	62.80
GSA PHE 31LR	984531005520100	3200	525	665	69.56
GSA PHE 41LR	984541005520100	4000	630	775	93.14
GSA PHE 50LR	984550005520150	5000	885	1030	165.10
GSA PHE 60LR	984560005520200	6300	1140	1285	237.73

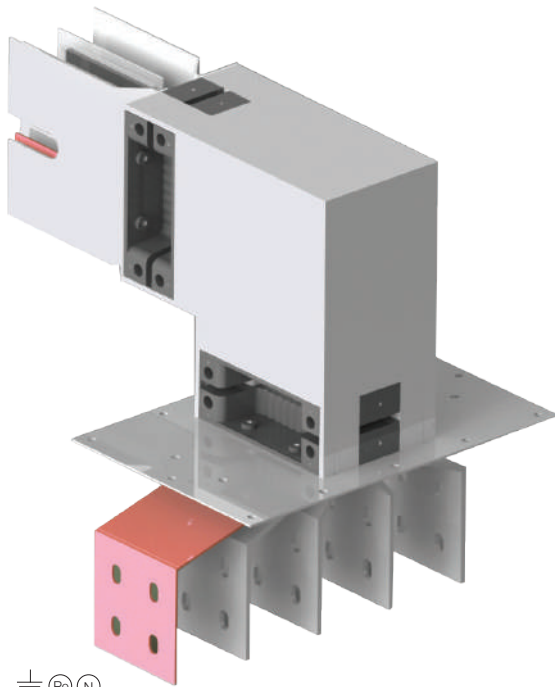
GSC

GSC PHE 04LR	994504005510051	400	235	370	24.95
GSC PHE 05LR	994505015510051	500	235	370	24.95
GSC PHE 06LR	994506315510051	630	235	370	24.95
GSC PHE 08LR	994508015510051	800	235	370	24.95
GSC PHE 10LR	994510015510051	1000	235	370	24.95
GSC PHE 12LR	994512515510051	1250	250	385	25.20
GSC PHE 16LR	994516015510051	1600	265	410	32.96
GSC PHE 20LR	994520015510051	2000	300	440	48.13
GSC PHE 25LR	994525005510101	2500	415	560	81.31
GSC PHE 33LR	994533005510101	3200	485	625	112.43
GSC PHE 42LR	994542005510101	4000	525	665	132.18
GSC PHE 50LR	994550015510151	5000	670	810	180.92
GSC PHE 60LR	994560005510151	6300	885	1030	333.08



SUPER COMPACT BUSBAR TRUNKING SYSTEMS

Panel - Transformer Side 90° Horizontal Elbow Element (Left) 3P+N+1/2 PE

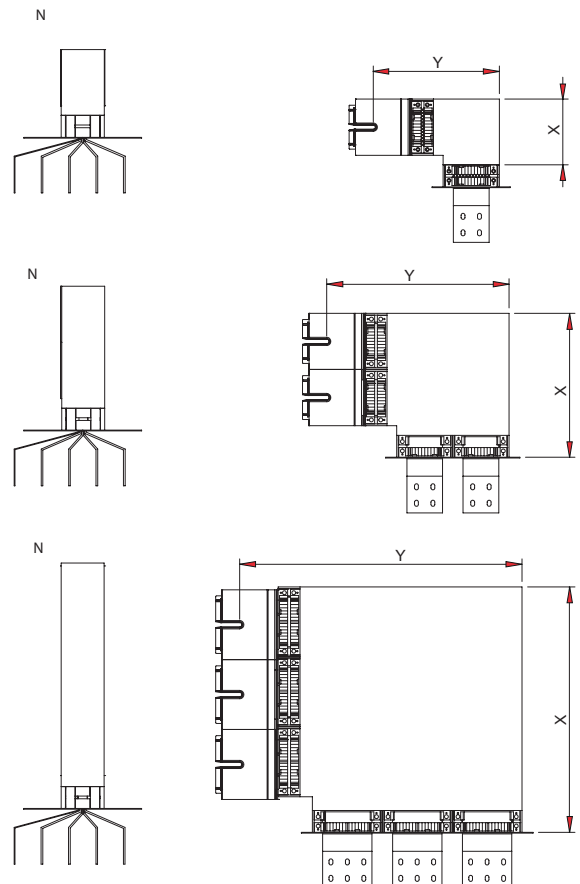


GSA

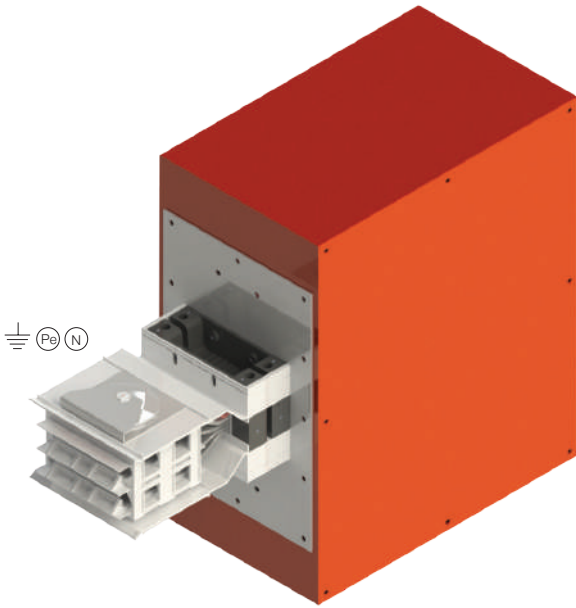
Order code	Stock code	Amper A	X mm	Y mm	Weight (Kg/Unit)
GSA PHE 04LL	984504005520052	400	235	370	15.43
GSA PHE 05LL	984505015520052	500	235	370	15.43
GSA PHE 06LL	984506315520052	630	235	370	15.43
GSA PHE 08LL	984508015520052	800	235	370	15.43
GSA PHE 10LL	984510015520052	1000	250	385	16.53
GSA PHE 12LL	984512515520052	1250	265	410	19.00
GSA PHE 17LL	984517005520052	1600	320	460	29.36
GSA PHE 20LL	984520005520052	2000	375	520	39.35
GSA PHE 26LL	984526005520102	2500	485	625	58.00
GSA PHE 31LL	984531005520102	3200	525	665	65.43
GSA PHE 41LL	984541005520102	4000	630	775	87.19
GSA PHE 50LL	984550005520152	5000	885	1030	156.68
GSA PHE 60LL	984560005520202	6300	1140	1285	227.31

GSC

GSC PHE 04LL	994504005510053	400	235	370	22.63
GSC PHE 05LL	994505015510053	500	235	370	22.63
GSC PHE 06LL	994506315510053	630	235	370	22.63
GSC PHE 08LL	994508015510053	800	235	370	22.63
GSC PHE 10LL	994510015510053	1000	235	370	22.63
GSC PHE 12LL	994512515510053	1250	250	385	25.26
GSC PHE 16LL	994516015510053	1600	265	410	31.43
GSC PHE 20LL	994520015510053	2000	300	440	45.80
GSC PHE 25LL	994525005510103	2500	415	560	76.37
GSC PHE 33LL	994533005510103	3200	485	625	103.31
GSC PHE 42LL	994542005510103	4000	525	665	121.96
GSC PHE 50LL	994550015510153	5000	670	810	180.18
GSC PHE 60LL	994560005510151	6300	885	1030	311.72



Feed Unit (Right) 3P+N+1/2 PE



It is available to use with circuit breaker. Please inform this when ordering.

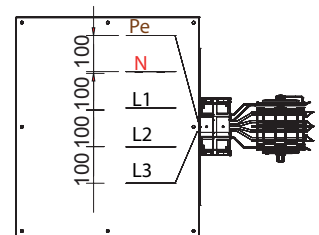
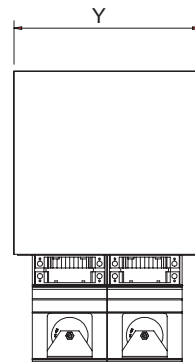
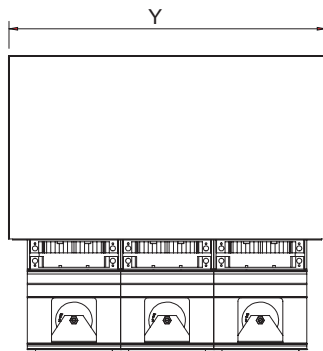
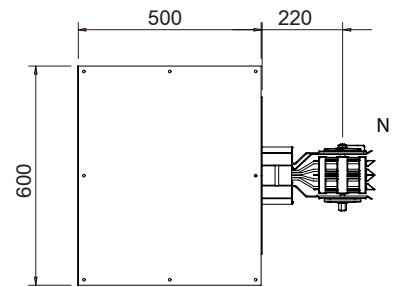
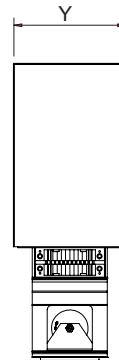
** Please specify cable dimensions for feed unit box's cable glands.*

GSA

Order code	Stock code	Amper A	Y mm	Weight (Kg/Unit)
GSA FE 04R	981504005520050	400	215	23.20
GSA FE 05R	981505015520050	500	215	23.20
GSA FE 06R	981506315520050	630	215	23.20
GSA FE 08R	981508015520050	800	215	23.20
GSA FE 10R	981510015520050	1000	230	23.04
GSA FE 12R	981512515520050	1250	250	27.04
GSA FE 17R	981517005520050	1600	305	32.33
GSA FE 20R	981520005520050	2000	355	35.83
GSA FE 26R	981526005520100	2500	470	50.12
GSA FE 31R	981531005520100	3200	510	54.02
GSA FE 41R	981541005520100	4000	610	63.03
GSA FE 50R	981550005520150	5000	865	90.03
GSA FE 60R	981560005520200	6300	1120	125.55

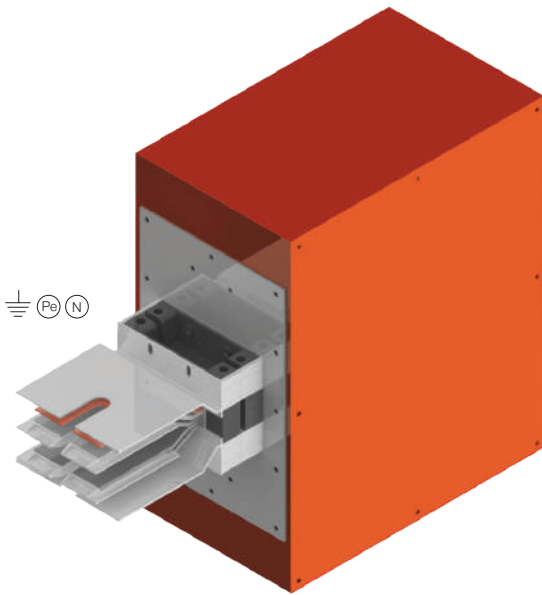
GSC

GSC FE 04R	991504005510051	400	215	27.67
GSC FE 05R	991505015510051	500	215	27.67
GSC FE 06R	991506315510051	630	215	27.67
GSC FE 08R	991508015510051	800	215	27.67
GSC FE 10R	991510015510051	1000	215	27.67
GSC FE 12R	991512515510051	1250	230	29.64
GSC FE 16R	991516015510051	1600	250	34.56
GSC FE 20R	991520015510051	2000	285	41.55
GSC FE 25R	991525005510101	2500	400	62.48
GSC FE 33R	991533005510101	3200	470	77.70
GSC FE 42R	991542005510101	4000	510	85.31
GSC FE 50R	991550015510151	5000	655	111.17
GSC FE 60R	991560005510151	6300	865	157.16



SUPER COMPACT BUSBAR TRUNKING SYSTEMS

Feed Unit (Left) 3P+N+1/2 PE



GSA

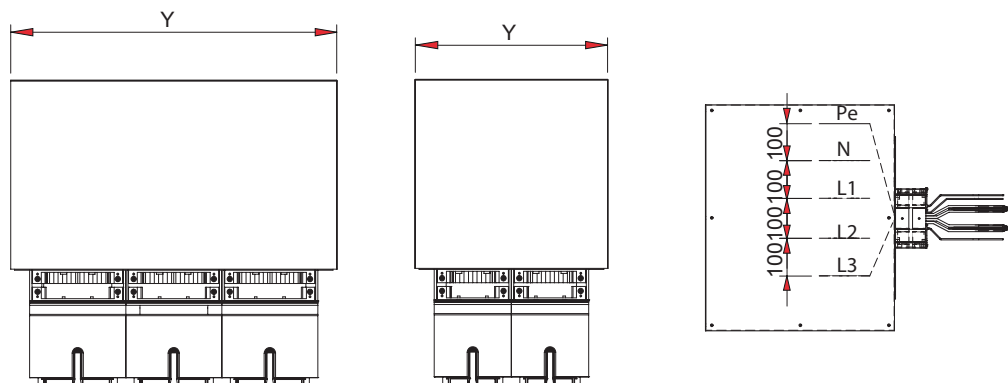
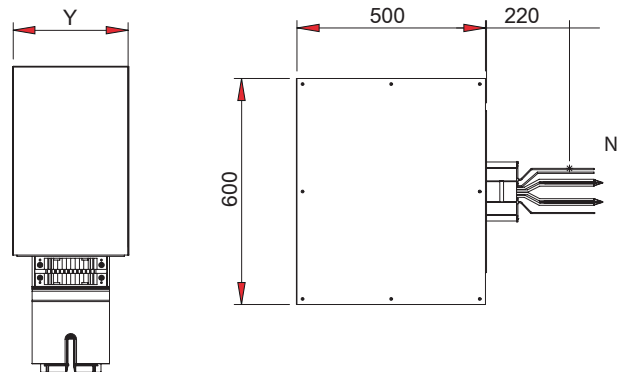
Order code	Stock code	Amper A	Y mm	Weight (Kg/Unit)
GSA FE 04L	981504005520051	400	215	20.89
GSA FE 05L	981505015520051	500	215	20.89
GSA FE 06L	981506315520051	630	215	20.89
GSA FE 08L	981508015520051	800	215	20.89
GSA FE 10L	981510015520051	1000	230	21.46
GSA FE 12L	981512515520051	1250	250	25.16
GSA FE 17L	981517005520051	1600	305	30.02
GSA FE 20L	981520005520051	2000	355	34.04
GSA FE 26L	981526005520101	2500	470	44.55
GSA FE 31L	981531005520101	3200	510	48.03
GSA FE 41L	981541005520101	4000	610	55.90
GSA FE 50L	981550005520151	5000	865	78.01
GSA FE 60L	981560005520201	6300	1120	113.32

GSC

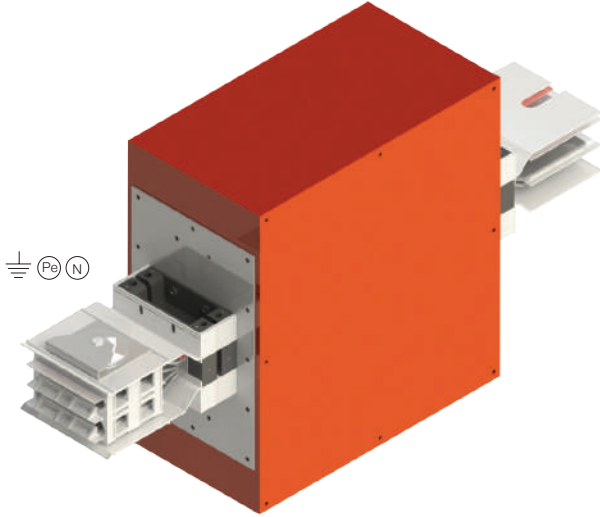
GSC FE 04L	991504005510052	400	215	25.35
GSC FE 05L	991505015510052	500	215	25.35
GSC FE 06L	991506315510052	630	215	25.35
GSC FE 08L	991508015510052	800	215	25.35
GSC FE 10L	991510015510052	1000	215	25.35
GSC FE 12L	991512515510052	1250	230	26.97
GSC FE 16L	991516015510052	1600	250	32.67
GSC FE 20L	991520015510052	2000	285	39.48
GSC FE 25L	991525005510102	2500	400	54.37
GSC FE 33L	991533005510102	3200	470	66.58
GSC FE 42L	991542005510102	4000	510	74.04
GSC FE 50L	991550015510152	5000	655	96.51
GSC FE 60L	991560005510152	6300	865	132.72

It is available to use with circuit breaker. Please inform this when ordering.

* Please specify cable dimensions for feed unit box's cable glands.



Centre Feed Unit 3P+N+1/2 PE

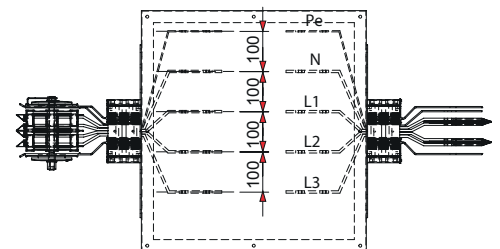
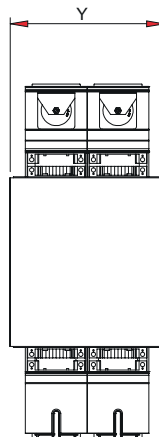
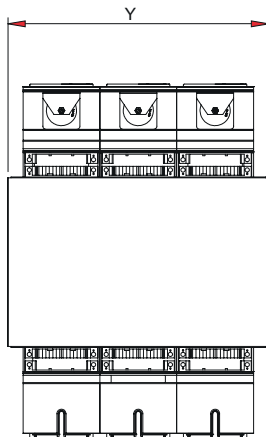
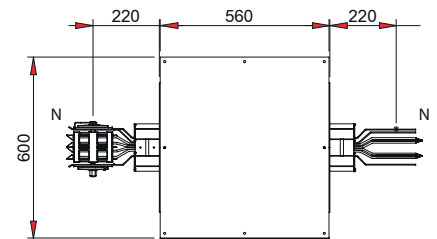


GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Y mm	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GSA CF 04	981804005520050	400	215	35.50
GSA CF 05	981805015520050	500	215	35.50
GSA CF 06	981806315520050	630	215	35.50
GSA CF 08	981808015520050	800	215	35.50
GSA CF 10	981810015520050	1000	230	35.27
GSA CF 12	981812515520050	1250	250	38.10
GSA CF 17	981817005520050	1600	305	50.10
GSA CF 20	981820005520050	2000	355	59.07
GSA CF 26	981826005520100	2500	470	81.26
GSA CF 31	981831005520100	3200	510	89.75
GSA CF 41	981841005520100	4000	610	111.45
GSA CF 50	981850005520150	5000	865	169.39
GSA CF 60	981860005520200	6300	1120	220.10

GSC

GSC CF 04	991804005510051	400	215	44.43
GSC CF 05	991805015510051	500	215	44.43
GSC CF 06	991806315510051	630	215	44.43
GSC CF 08	991808015510051	800	215	44.43
GSC CF 10	991810015510051	1000	215	44.43
GSC CF 12	991812515510051	1250	230	47.74
GSC CF 16	991816015510051	1600	250	55.71
GSC CF 20	991820015510051	2000	285	71.55
GSC CF 25	991825005510101	2500	400	92.83
GSC CF 33	991833005510101	3200	470	140.88
GSC CF 42	991842005510101	4000	510	161.39
GSC CF 50	991850015510151	5000	655	195.65
GSC CF 60	991860005510151	6300	865	341.74



SUPER COMPACT BUSBAR TRUNKING SYSTEMS

Flexible Bars



They can be manufactured for connections of transformer and panel terminals.

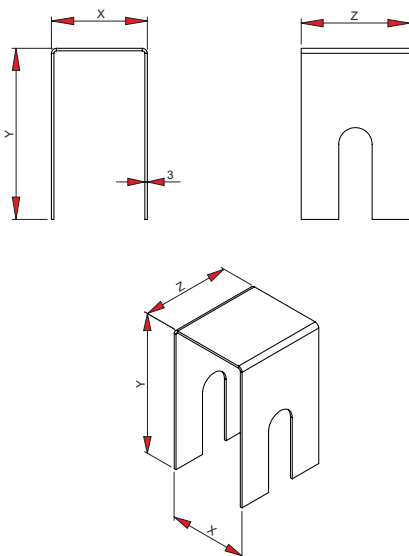
GSA

Order code	Stock code	Amper A	Weight (Kg/Unit)
GSA FLX 04	982604005510041	400	3.50
GSA FLX 05	982605015510041	500	3.50
GSA FLX 06	982606315510041	630	3.50
GSA FLX 08	982608015510041	800	3.50
GSA FLX 10	982610015510041	1000	4.00
GSA FLX 12	982612515510041	1250	5.80
GSA FLX 17	982617005510041	1600	9.40
GSA FLX 20	982620005510041	2000	11.60
GSA FLX 26	982626005510081	2500	14.40
GSA FLX 31	982631005510081	3200	18.80
GSA FLX 41	982641005510081	4000	22.10
GSA FLX 50	982650005510121	5000	30.50
GSA FLX 60	982660005510161	6300	44.20

GSC

GSC FLX 04	992604005510041	400	3.50
GSC FLX 05	992605015510041	500	3.50
GSC FLX 06	992606315510041	630	3.50
GSC FLX 08	992608015510041	800	3.50
GSC FLX 10	992610015510041	1000	3.50
GSC FLX 12	992612515510041	1250	5.40
GSC FLX 16	992616015510041	1600	6.50
GSC FLX 20	992620015510041	2000	9.20
GSC FLX 25	992625005510081	2500	13.00
GSC FLX 33	992633005510081	3200	18.40
GSC FLX 42	992642005510081	4000	20.50
GSC FLX 50	992650015510121	5000	19.50
GSC FLX 60	992660005510121	6300	38.00

Earth Continuity Coupler



They can be manufactured for provide to earth continuity.

GSA

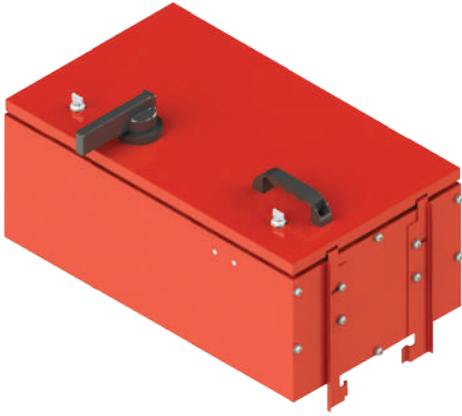
Order code	Stock code	Amper A	X mm	Y mm	Z mm	Weight (Kg/Unit)
GSA FYDB 04	989004005510041	400	115	70	130	0.80
GSA FYDB 05	989005015510041	500	115	70	130	0.80
GSA FYDB 06	989006315510041	630	115	70	130	0.80
GSA FYDB 08	989008015510041	800	115	70	130	0.80
GSA FYDB 10	989010015510041	1000	115	80	130	0.954
GSA FYDB 12	989012515510041	1250	115	105	130	1.093
GSA FYDB 17	989017005510041	1600	115	160	130	1.475
GSA FYDB 20	989020005510041	2000	115	210	130	1.822
GSA FYDB 26	989026005510081	2500	115	140	130	2.672
GSA FYDB 31	989031005510081	3200	115	160	130	2.950
GSA FYDB 41	989041005510081	4000	115	210	130	3.644

GSC

GSC FYDB 04	999004005510041	400	115	70	130	0.80
GSC FYDB 05	999005015510041	500	115	70	130	0.80
GSC FYDB 06	999006315510041	630	115	70	130	0.80
GSC FYDB 08	999008015510041	800	115	70	130	0.80
GSC FYDB 10	999010015510041	1000	115	70	130	0.80
GSC FYDB 12	999012515510041	1250	115	80	130	0.80
GSC FYDB 16	999016015510041	1600	115	105	130	0.954
GSC FYDB 20	999020015510041	2000	115	140	130	1.336
GSC FYDB 25	999025005510081	2500	115	105	130	1.908
GSC FYDB 33	999033005510081	3200	115	140	130	2.672
GSC FYDB 42	999042005510081	4000	115	160	130	2.950

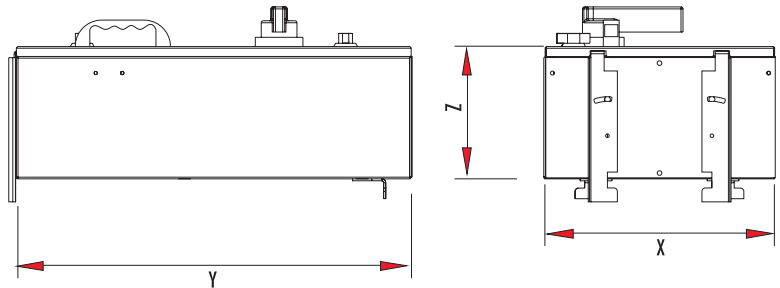
Tap-off Boxes do not include MCCB and NH Fuse

Plug-in Tap-off Box



GSA-Plug-in Tap-off Box

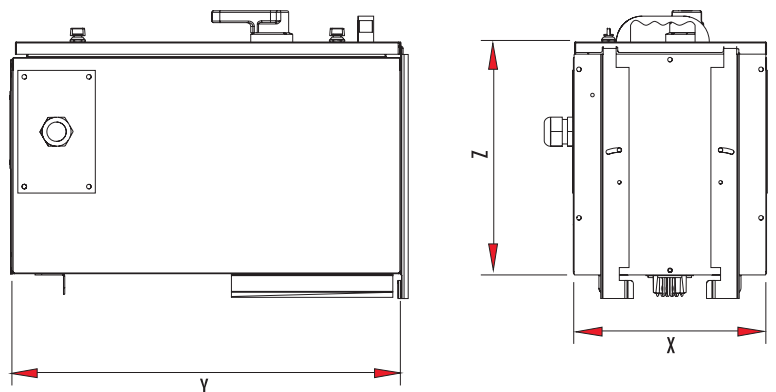
Order code	Stock code	Amper A	Breaker Type	X mm	Y mm	Z mm	Weight (Kg/Unit)
P-SYK160	914801605510043	160	SYK	350	600	250	29.930
P-SYK250	914802505510043	250	SYK	400	700	300	36.980
P-SYK400	914804005510043	400	SYK	400	700	300	39.490
P-SYK630	914806305510043	630	SYK	450	700	300	45.430



Plug-in Tap-off Box



Order code	Stock code	Amper A	Breaker Type	X mm	Y mm	Z mm	Weight (Kg/Unit)
P-MCCB160	91480160551141	160	MCCB	300	600	225	21.05
P-MCCB250	91480250551141	250	MCCB	300	600	225	22.27
P-MCCB400	91480400551141	400	MCCB	300	700	300	25.41
P-MCCB630	91480630551141	630	MCCB	300	700	300	28.88



SUPER COMPACT BUSBAR TRUNKING SYSTEMS

Bolt-on Tap-off Box

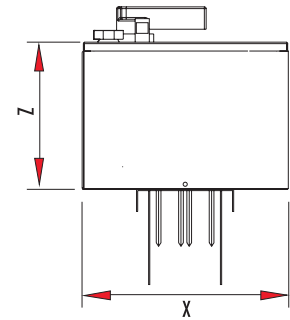
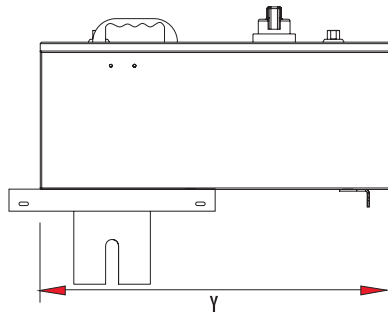


GSA-Bolt-on Tap-off Box

Order code	Stock code	Amper A	Breaker Type	X mm	Y mm	Z mm	Weight (Kg/Unit)
BX-SYK160	914801605510043	160	SYK	350	600	250	29.930
BX-SYK250	914802505510043	250	SYK	400	700	300	36.980
BX-SYK400	914804005510043	400	SYK	400	700	300	39.490
BX-SYK630	914806305510043	630	SYK	450	700	300	45.430

GSC-Bolt-on Tap-off Box

Order code	Stock code	Amper A	Breaker Type	X mm	Y mm	Z mm	Weight (Kg/Unit)
BX-SYK160	914801605510042	160	SYK	350	600	250	29.930
BX-SYK250	914802505510042	250	SYK	400	700	300	36.980
BX-SYK400	914804005510042	400	SYK	400	700	300	39.490
BX-SYK630	914806305510042	630	SYK	450	700	300	45.430



Bolt-on Tap-off Box

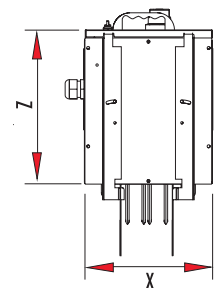
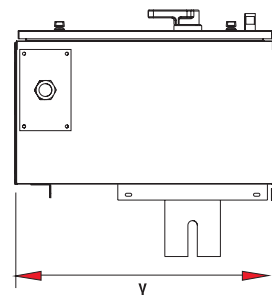


GSA-Bolt-on Tap-off Box

Order code	Stock code	Amper A	Breaker Type	X mm	Y mm	Z mm	Weight (Kg/Unit)
BX-MCCB160	914801605510143	160	MCCB	300	600	225	28.16
BX-MCCB250	914802505510143	250	MCCB	300	600	225	29.40
BX-MCCB400	914804005510143	400	MCCB	300	700	300	34.10
BX-MCCB630	914806305510143	630	MCCB	300	700	300	37.20
BX-MCCB800	914808005510143	800	MCCB	-	-	-	40.82
BX-MCCB1000	914810005510143	1000	MCCB	-	-	-	47.12

GSC-Bolt-on Tap-off Box

Order code	Stock code	Amper A	Breaker Type	X mm	Y mm	Z mm	Weight (Kg/Unit)
BX-MCCB160	914801605510142	160	MCCB	300	600	225	28.16
BX-MCCB250	914802505510142	250	MCCB	300	600	225	29.40
BX-MCCB400	914804005510142	400	MCCB	300	700	300	34.10
BX-MCCB630	914806305510142	630	MCCB	300	700	300	37.20
BX-MCCB800	914808005510142	800	MCCB	-	-	-	40.82
BX-MCCB1000	914810005510142	1000	MCCB	-	-	-	47.12



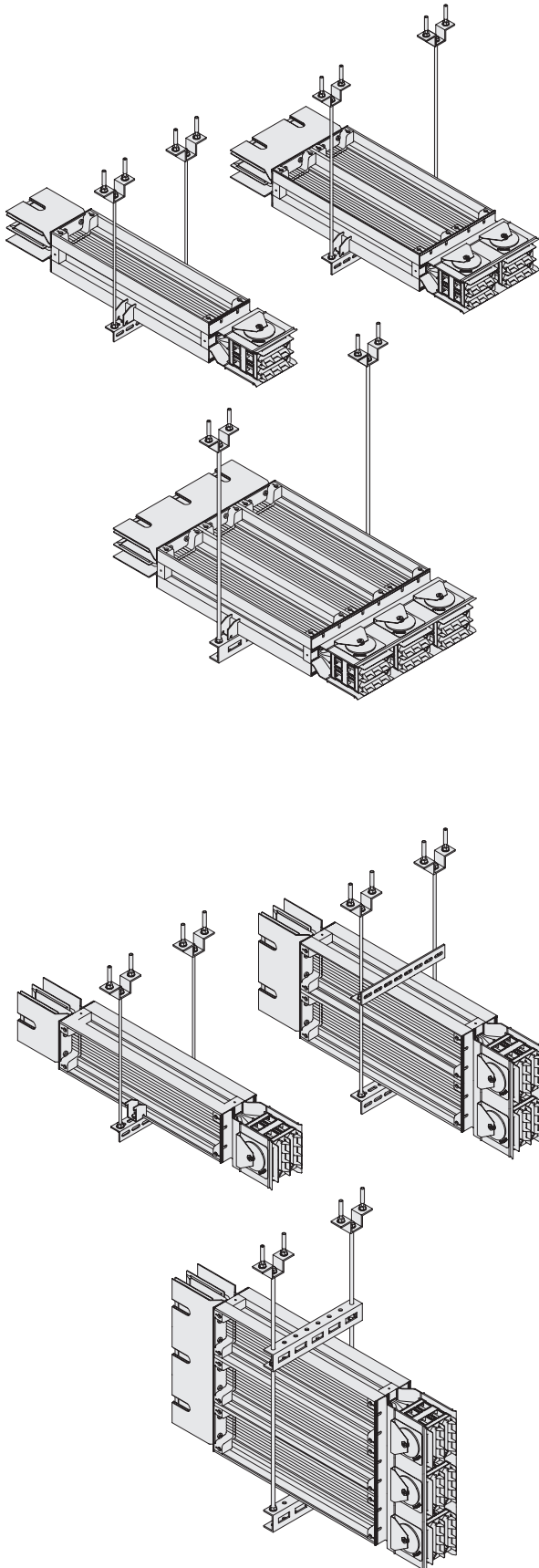
D.F. (α)

2-3	0.9
4-5	0.8
6-9	0.7
10	0.6

AL	400	500	630	800	1000	1250	1600	2000	2500	3200	4000	5000	6300
A	x	x	x	x	10	12	17	20	26	31	41	50	60
CU	400	500	630	800	1000	1250	1600	2000	2500	3200	4000	5000	6300
C	x	x	x	x	x	12	16	20	25	33	42	50	60

1000 AL BUSBAR. GSAB 050110. 160A MCCB = BA10-MCCB160

Horizontal Supporting Hangers



Suggested support distance is between 1.2-2m.

GSA

Order code	Stock code	Amper A	Weight (Kg/Unit)
GSA SSH 04	982704005560043	400	3.50
GSA SSH 05	982705015560043	500	3.50
GSA SSH 06	982706315560043	630	3.50
GSA SSH 08	982708015560043	800	3.50
GSA SSH 10	982710015560043	1000	3.50
GSA SSH 12	982712515560043	1250	3.50
GSA SSH 17	982717005560043	1600	3.65
GSA SSH 20	982720005560043	2000	3.75
GSA SSH 26	982726005560083	2500	4.80
GSA SSH 31	982731005560083	3200	4.95
GSA SSH 41	982741005560083	4000	5.35
GSA SSH 50	982750005560123	5000	7.05
GSA SSH 60	982760005560163	6300	10,70

GSC

GSC SSH 04	992704005560043	400	3.50
GSC SSH 05	992705015560043	500	3.50
GSC SSH 06	992706315560043	630	3.50
GSC SSH 08	992708015560043	800	3.50
GSC SSH 10	992710015560043	1000	3.50
GSC SSH 12	992712515560043	1250	3.50
GSC SSH 16	992716015560043	1600	3.50
GSC SSH 20	992720015560043	2000	3.65
GSC SSH 25	992725005560083	2500	4.20
GSC SSH 33	992733005560083	3200	4.80
GSC SSH 42	992742005560083	4000	4.95
GSC SSH 50	992750015560123	5000	6.50
GSC SSH 60	992760005560123	6300	7.05

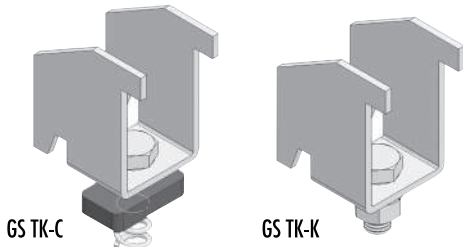
GSA

Order code	Stock code	Amper A	Weight (Kg/Unit)
GSA SSHV 04	982704005560044	400	3.50
GSA SSHV 05	982705015560044	500	3.50
GSA SSHV 06	982706315560044	630	3.50
GSA SSHV 08	982708015560044	800	3.50
GSA SSHV 10	982710015560044	1000	3.50
GSA SSHV 12	982712515560044	1250	3.50
GSA SSHV 17	982717005560044	1600	3.50
GSA SSHV 20	982720005560044	2000	3.50
GSA SSHV 26	982726005560084	2500	4.98
GSA SSHV 31	982731005560084	3200	4.98
GSA SSHV 41	982741005560084	4000	4.98
GSA SSHV 50	982750005560124	5000	5.86
GSA SSHV 60	982760005560164	6300	9.96

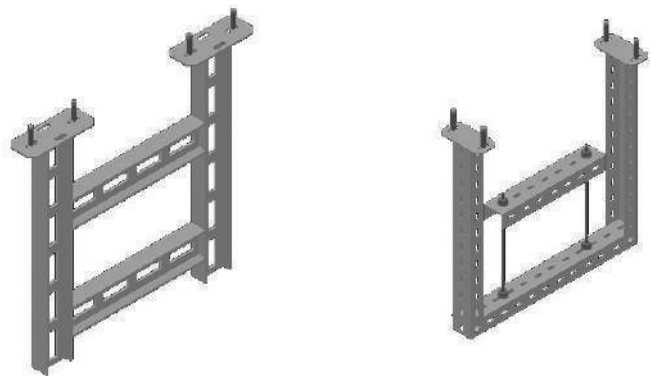
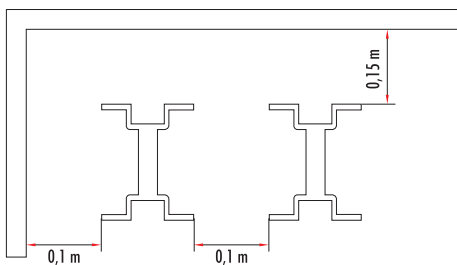
GSC

GSC SSHV 04	992704005560044	400	3.50
GSC SSHV 05	992705015560044	500	3.50
GSC SSHV 06	992706315560044	630	3.50
GSC SSHV 08	992708015560044	800	3.50
GSC SSHV 10	992710015560044	1000	3.50
GSC SSHV 12	992712515560044	1250	3.50
GSC SSHV 16	992716015560044	1600	3.50
GSC SSHV 20	992720015560044	2000	3.50
GSC SSHV 25	992725005560084	2500	4.98
GSC SSHV 33	992733005560084	3200	4.98
GSC SSHV 42	992742005560084	4000	4.98
GSC SSHV 50	992750015560124	5000	5.86
GSC SSHV 60	992760005560124	6300	5.86

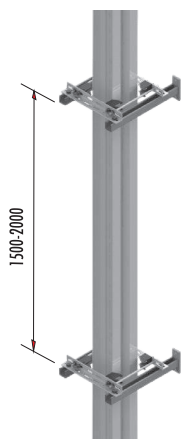
Fixing Hanger



Order code	Stock code	Weight (Kg/Unit)
GS TK-C	98270000060043	0.20
GS TK-K	98270000060044	0.18



Vertical Supporting Hangers

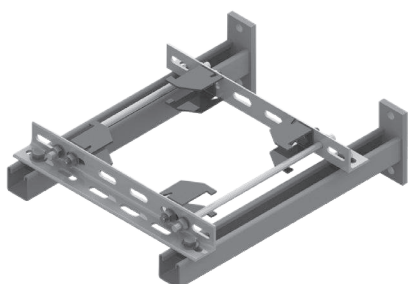


GSA

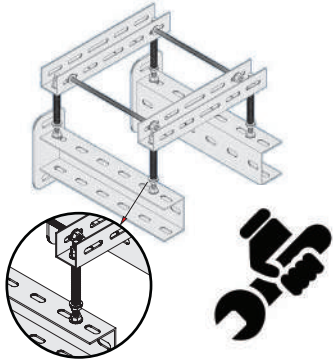
Order code	Stock code	Amper A	Weight (Kg/Unit)
GSA SSV 04	982804005560043	400	5.41
GSA SSV 05	982805015560043	500	5.41
GSA SSV 06	982806315560043	630	5.41
GSA SSV 08	982808015560043	800	5.41
GSA SSV 10	982810015560043	1000	5.41
GSA SSV 12	982812515560043	1250	5.55
GSA SSV 17	982817005560043	1600	6.00
GSA SSV 20	982820005560043	2000	6.31
GSA SSV 26	982826005560083	2500	9.98
GSA SSV 31	982831005560083	3200	10.42
GSA SSV 41	982841005560083	4000	11.43
GSA SSV 50	982850005560123	5000	15.36
GSA SSV 60	982860005560163	6300	22.86

GSC

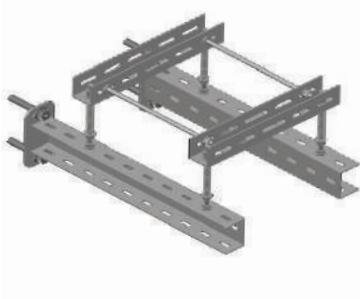
GSC SSV 04	992804005560043	400	5.41
GSC SSV 05	992805015560043	500	5.41
GSC SSV 06	992806315560043	630	5.41
GSC SSV 08	992808015560043	800	5.41
GSC SSV 10	992810015560043	1000	5.41
GSC SSV 12	992812515560043	1250	5.41
GSC SSV 16	992816015560043	1600	5.50
GSC SSV 20	992820015560043	2000	5.81
GSC SSV 25	992825005560083	2500	9.12
GSC SSV 33	992833005560083	3200	9.98
GSC SSV 42	992842005560083	4000	11.96
GSC SSV 50	992850015560123	5000	13.26
GSC SSV 60	992860005560123	6300	15.36



Vertical Supporting Hangers



Balance the weight by adjustment nut.



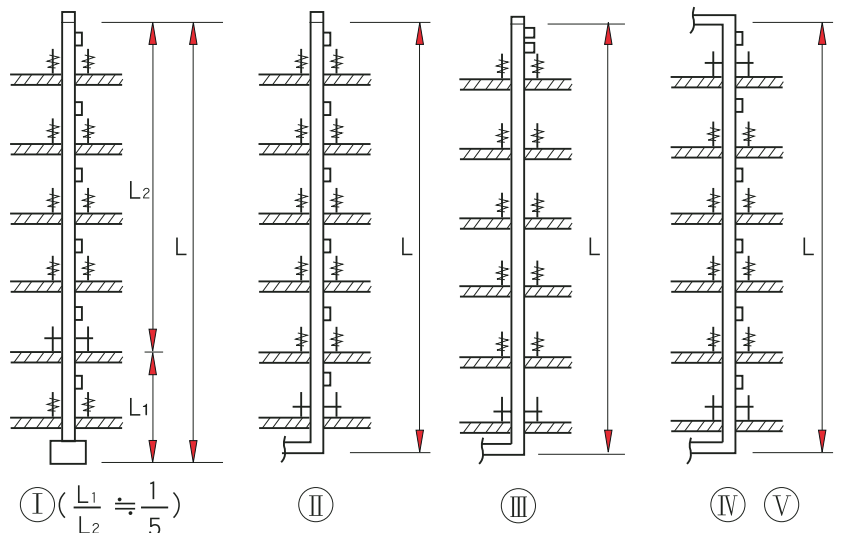
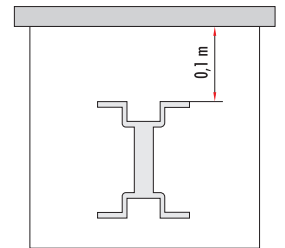
GSA

Order code	Stock code	Amper A	Weight (Kg/Unit)
GSA SSV 04-1	982804005561043	400	6.00
GSA SSV 05-1	982805015561043	500	6.00
GSA SSV 06-1	982806315561043	630	6.00
GSA SSV 08-1	982808015561043	800	6.00
GSA SSV 10-1	982810015561043	1000	6.00
GSA SSV 12-1	982812515561043	1250	6.22
GSA SSV 17-1	982817005561043	1600	6.62
GSA SSV 20-1	982820005561043	2000	7.00
GSA SSV 26-1	982826005561083	2500	10.66
GSA SSV 31-1	982831005561083	3200	11.10
GSA SSV 41-1	982841005561083	4000	12.11
GSA SSV 50-1	982850005561123	5000	12.66
GSA SSV 60-1	982860005561163	6300	24.22

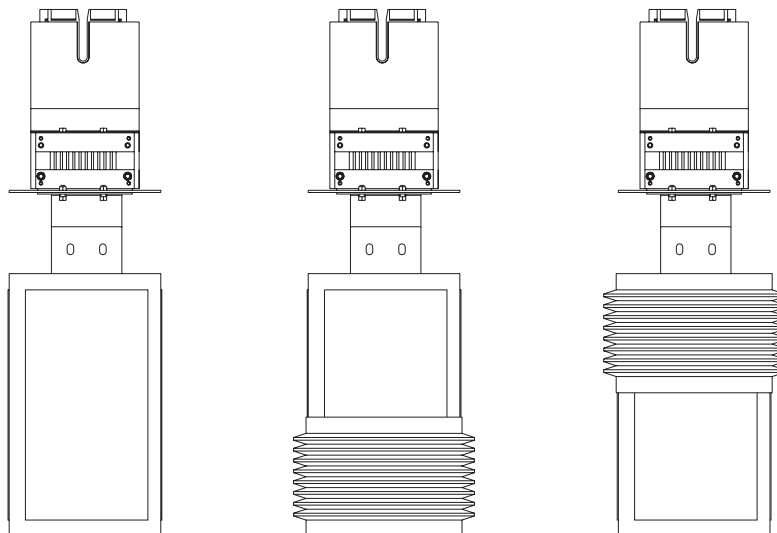
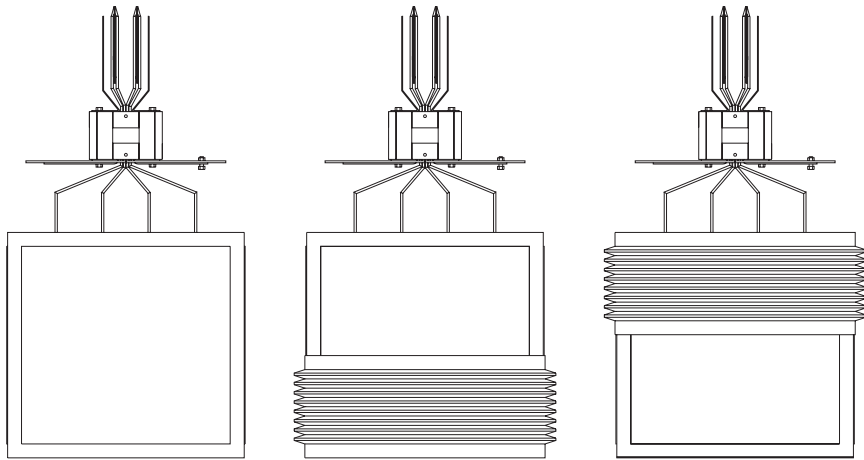
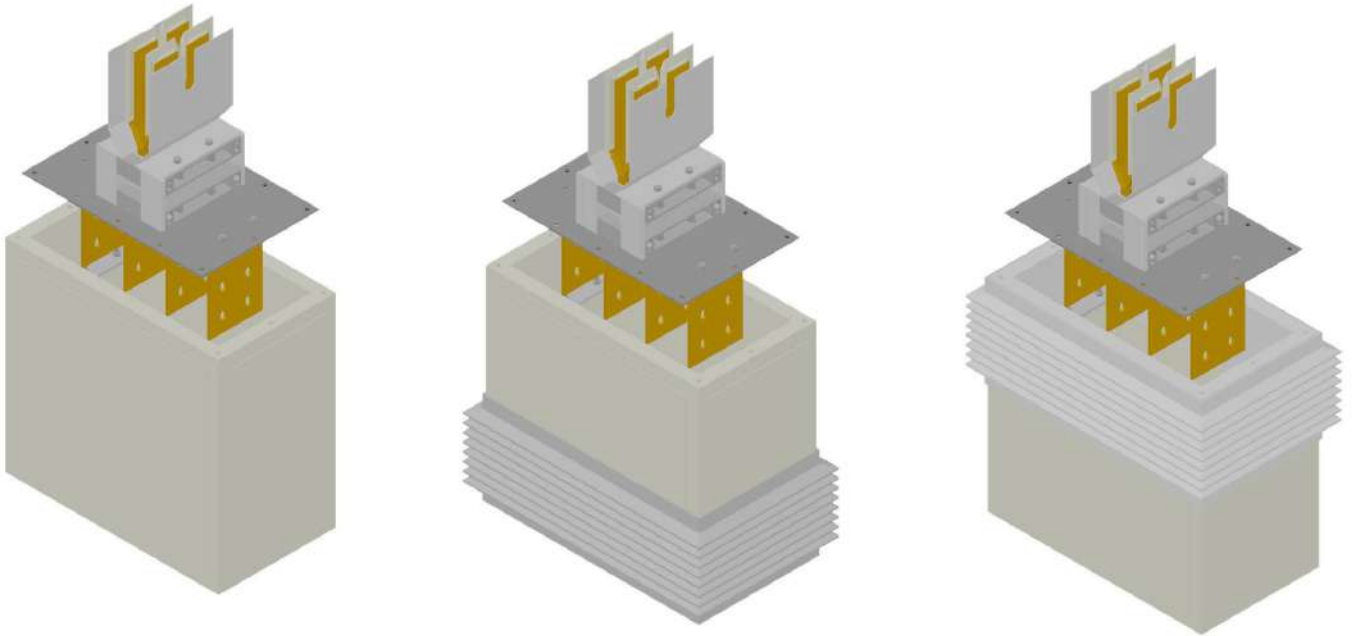
GSC

GSC SSV 04-1	992804005561043	400	6.00
GSC SSV 05-1	992805015561043	500	6.00
GSC SSV 06-1	992806315561043	630	6.00
GSC SSV 08-1	992808015561043	800	6.00
GSC SSV 10-1	992810015561043	1000	6.00
GSC SSV 12-1	992812515561043	1250	6.00
GSC SSV 16-1	992816015561043	1600	6.22
GSC SSV 20-1	992820015561043	2000	6.48
GSC SSV 25-1	992825005561083	2500	9.78
GSC SSV 33-1	992833005561083	3200	10.66
GSC SSV 42-1	992842005561083	4000	12.67
GSC SSV 50-1	992850015561123	5000	14.36
GSC SSV 60-1	992860005561123	6300	16.04

(L)				
I	II	III	IV	V
≤120(m)	≤90(m)	≤30(m)	≤30(m)	≤15(m)



Technical Details of Switchboard Feed and Transformer Side Element



GSA- Technical Details

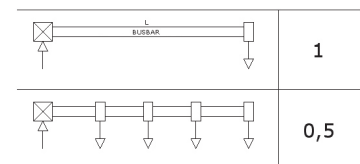
		GSA 400A	GSA 500A	GSA 630A	GSA 800A	GSA 1000A	GSA 1250A	GSA 1600A	GSA 2000A	GSA 2500A	GSA 3200A	GSA 4000A	GSA 5000A	GSA 6300A	
Rated Current	In	400	500	630	800	1000	1250	1600	2000	2500	3200	4000	5000	6300	A
Operational Voltage	Ue	1000													V
Insulation Voltage	Ui	1000													V
Frequency	f	50-60 (AC/DC)													Hz
Cross Section Of Phases	Sf	240	240	240	240	330	450	780	1080	1320	1560	2160	3240	4320	mm ²
Cross Section Of Neutral	SN	240	240	240	240	330	450	780	1080	1320	1560	2160	3240	4320	mm ²
Cross Section Of Earth Bar	SPE	120	120	120	120	165	225	390	540	660	780	1080	1620	2160	mm ²
Cross Section Of Aluminium Housing	SH	1280	1280	1280	1280	1354	1450	2390	2603	4590	4780	5206	7810	10412	mm ²
Short-Circuit Current of Phases (1 sn)	Icw	50	50	50	50	50	65	65	65	90	100	120	150	150	kA
Peak Current of Phases	Ipk	110	110	110	110	110	150	150	150	200	220	264	330	330	kA
Short-Circuit Current of Neutral (1 sn)	Icw	30	30	30	30	30	40	40	40	54	63	72	90	90	kA
Peak Current of Neutral	Ipk	63	63	63	63	63	92	92	92	120	132	158	198	198	kA
Phases Resistance (T=20 o)	R20	0.091	0.091	0.091	0.091	0.068	0.047	0.037	0.026	0.021	0.018	0.013	0.008	0.003	mΩ/m
Phases Resistance	R ₁	0.064	0.080	0.100	0.125	0.091	0.062	0.026	0.029	0.027	0.013	0.018	0.014	0.004	mΩ/m
Phases Reactance	X ₁	0.017	0.021	0.026	0.033	0.023	0.015	0.032	0.014	0.017	0.018	0.009	0.004	0.006	mΩ/m
Phases Impedance	Z ₁	0.066	0.083	0.103	0.129	0.094	0.064	0.045	0.032	0.032	0.023	0.020	0.015	0.006	mΩ/m

Voltage drop with concentrated end line load

$$\Delta V = \alpha \sqrt{3} I_n L (R \cos\phi + X_L \sin\phi) 10e-3$$

ΔV	Voltage drop (V)
α	Current distribution factor
L	Duct length (m)
I_n	Use current (A)
R	Phase resistance per unit length of the Busbar (m/m)
X_L	Phase reactance per unit length of the Busbar (m/m)
$\cos\phi$	Average load power factor

Load Distribution Constant (α)

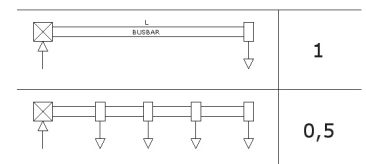


GSC- Technical Details

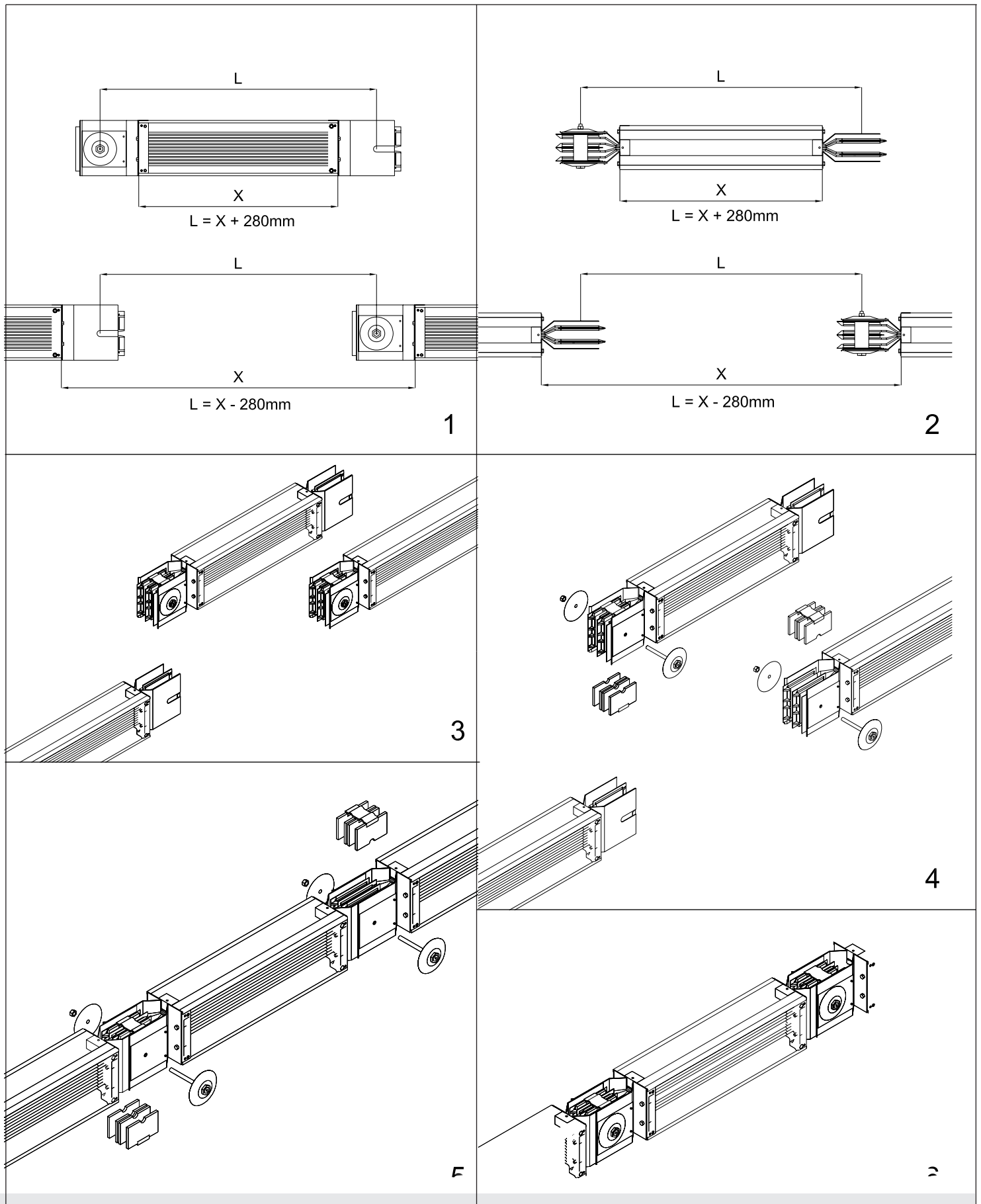
		GSC 400A	GSC 500A	GSC 630A	GSC 800A	GSC 1000A	GSC 1250A	GSC 1600A	GSC 2000A	GSC 2500A	GSC 3200A	GSC 4000A	GSC 5000A	GSC 6300A	
Rated Current	In	400	500	630	800	1000	1250	1600	2000	2500	3200	4000	5000	6300	A
Operational Voltage	Ue	1000													V
Insulation Voltage	Ui	1000													V
Frequency	f	50-60 (AC/DC)													Hz
Cross Section Of Phases	Sf	240	240	240	240	240	330	450	660	900	1320	1560	1980	3240	mm ²
Cross Section Of Neutral	SN	240	240	240	240	240	330	450	660	900	1320	1560	1980	3240	mm ²
Cross Section Of Earth Bar	SPE	120	120	120	120	120	165	225	330	450	660	780	990	1620	mm ²
Cross Section Of Aluminium Housing	SH	1280	1280	1280	1280	1280	1354	2390	2390	4590	4590	4780	6885	7810	mm ²
Short-Circuit Current of Phases (1 sn)	Icw	50	50	50	50	50	65	65	80	80	120	120	150	150	kA
Peak Current of Phases	Ipk	110	110	110	110	110	150	150	175	175	264	264	330	330	kA
Short-Circuit Current of Neutral (1 sn)	Icw	30	30	30	30	30	40	40	50	50	72	72	90	90	kA
Peak Current of Neutral	Ipk	63	63	63	63	63	92	92	100	10	158	158	198	198	kA
Phases Resistance (T=20 o)	R20	0.058	0.058	0.058	0.058	0.058	0.045	0.029	0.023	0.016	0.012	0.011	0.008	0.005	mΩ/m
Phases Resistance	R ₁	0.031	0.039	0.049	0.061	0.076	0.058	0.038	0.023	0.022	0.016	0.012	0.008	0.005	mΩ/m
Phases Reactance	X ₁	0.011	0.014	0.018	0.022	0.028	0.021	0.014	0.042	0.013	0.015	0.009	0.011	0.003	mΩ/m
Phases Impedance	Z ₁	0.033	0.041	0.052	0.065	0.081	0.062	0.041	0.039	0.026	0.022	0.015	0.014	0.006	mΩ/m

Voltage drop with concentrated end line load		$\Delta V = \alpha \sqrt{3} I_n L (R \cos\phi + X_l \sin\phi) 10e-3$
ΔV	Voltage drop (V)	
α	Current distribution factor	
L	Duct length (m)	
I _n	Use current (A)	
R	Phase resistance per unit length of the Busbar (m/m)	
X _l	Phase reactance per unit length of the Busbar (m/m)	
cosφ	Average load power factor	

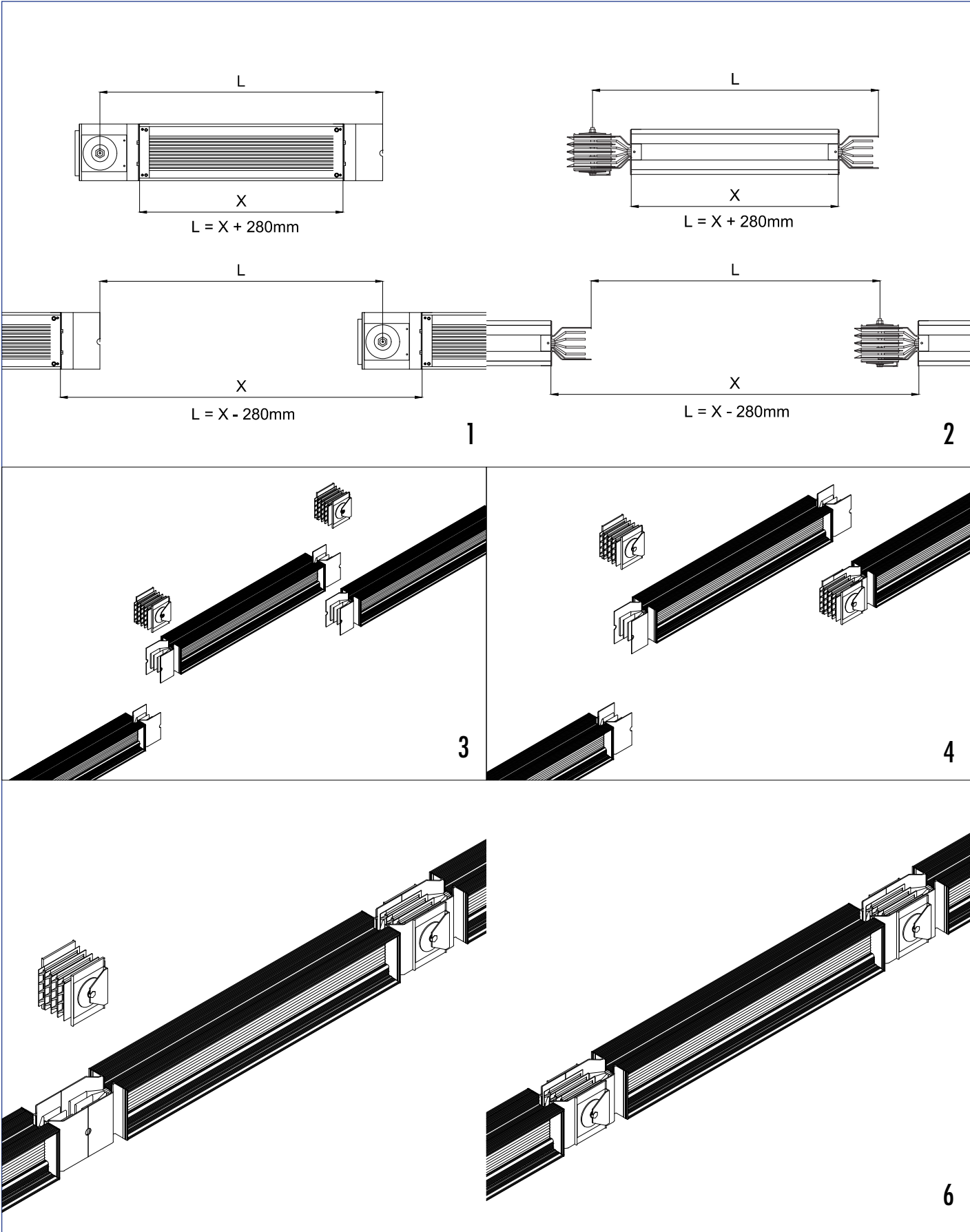
Load Distribution Constant (α)



GS Super Compact Busbar Trunking Systems



GS Super Compact Monoblock Busbar Trunking Systems





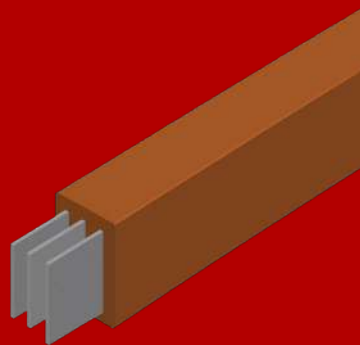
BUSBAR TRUNKING SYSTEMS



ISO 9001 / ISO 14001
ISO 45001



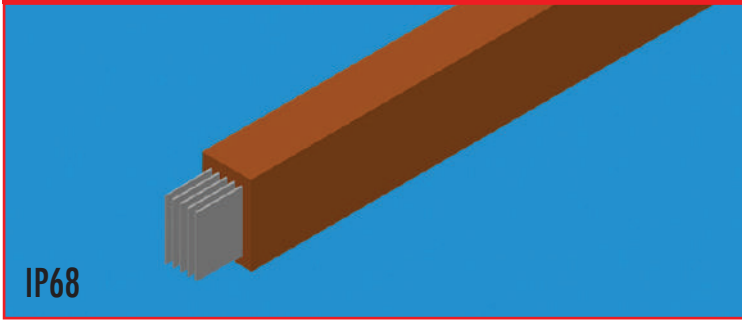
GR-Cast Resin (L.V.-M.V)



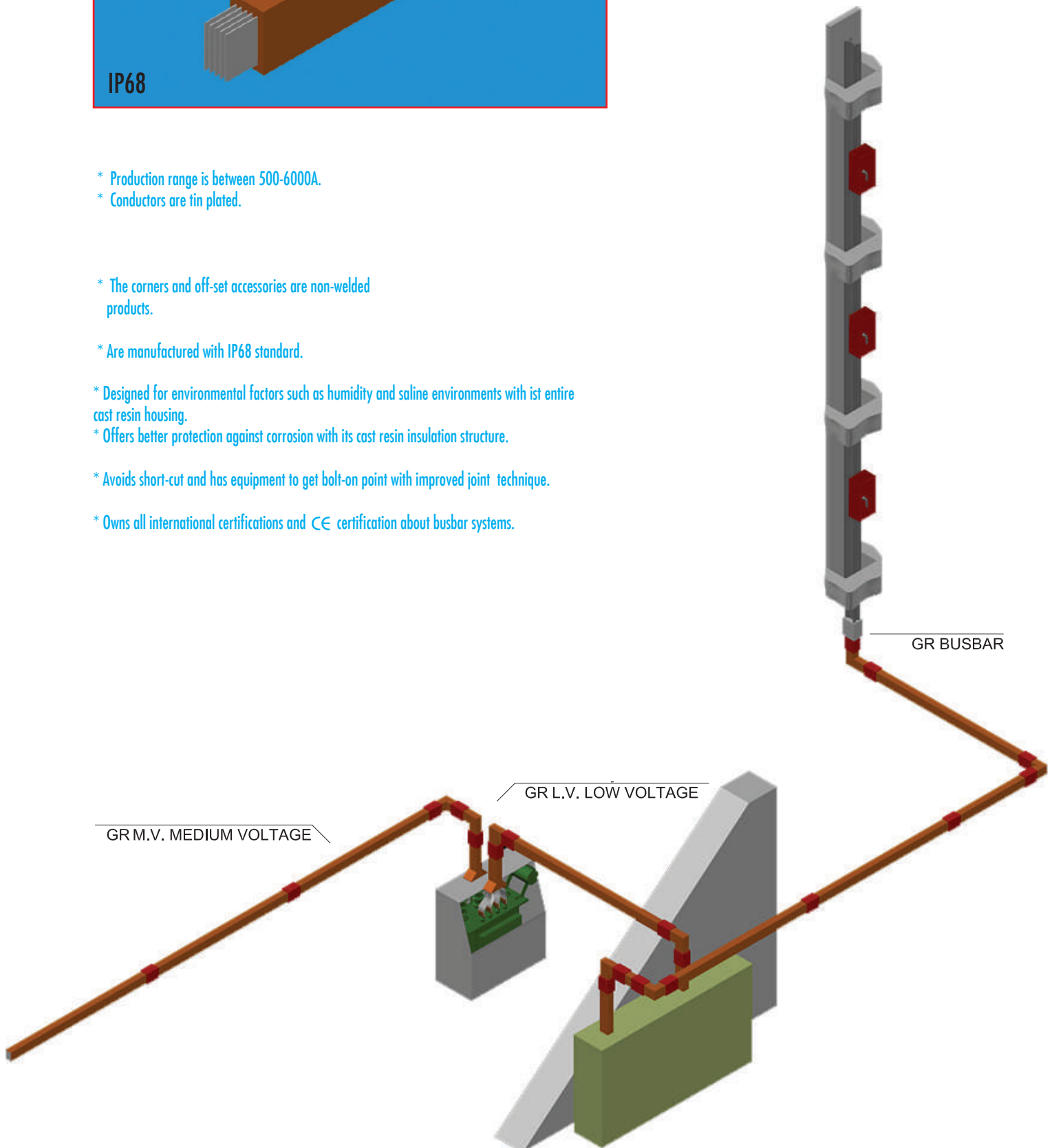
500-6000A



GR 500~6000A



- * Production range is between 500-6000A.
- * Conductors are tin plated.
- * The corners and off-set accessories are non-welded products.
- * Are manufactured with IP68 standard.
- * Designed for environmental factors such as humidity and saline environments with its entire cast resin housing.
- * Offers better protection against corrosion with its cast resin insulation structure.
- * Avoids short-cut and has equipment to get bolt-on point with improved joint technique.
- * Owns all international certifications and CE certification about busbar systems.



GR-A 500A - 5000A

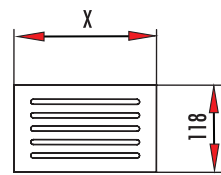
The conductors used in this series are Aluminium (EC Grade)

GR-C 500A - 6000A

The conductors used in this series are electrolytic copper (% 99.9 purity)

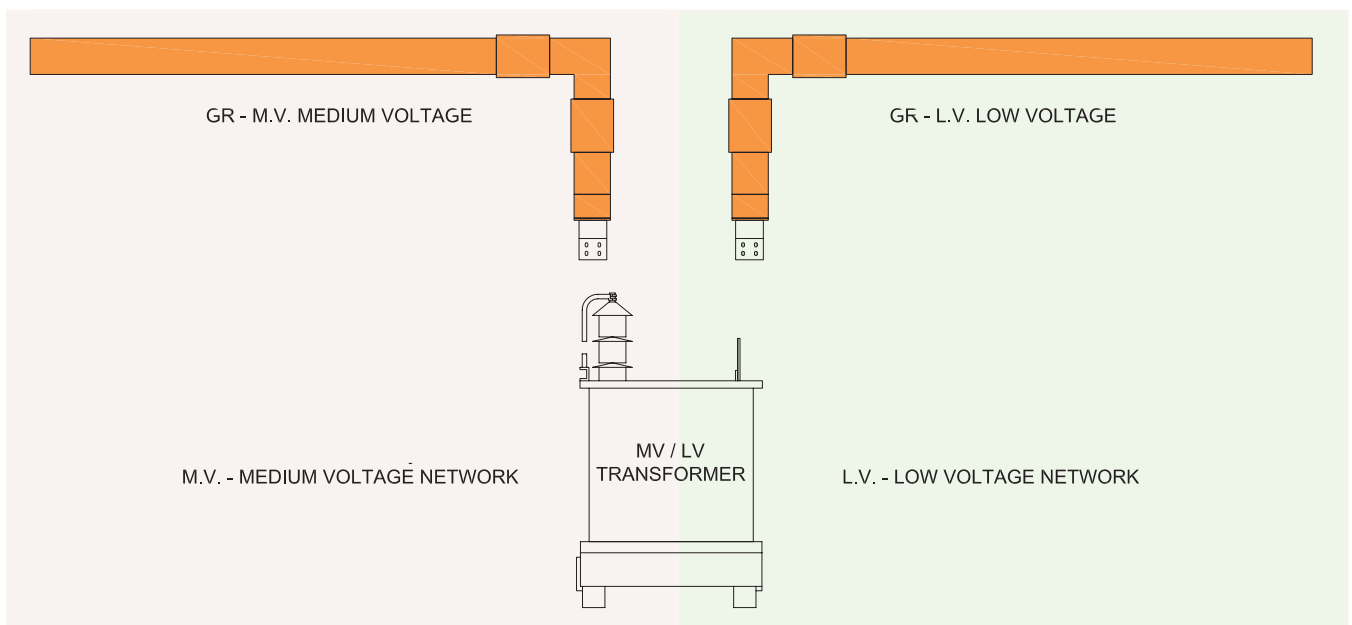
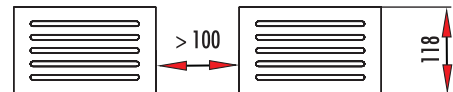
3P / 3P+N / 3P+N+E / 3P+2N+E / 3P+N+2E

GR-A	GR-C	X mm
	GR-C 500A	170
GR-A 500A	GR-C 630A	170
GR-A 630A	GR-C 800A	170
GR-A 800A	GR-C 1000A	170
GR-A 1000A	GR-C 1250A	170
GR-A 1250A	GR-C 1600A	170
GR-A 1600A	GR-C 2000A	170
GR-A 2000A	GR-C 2500A	220
GR-A 2500A	GR-C 3200A	220

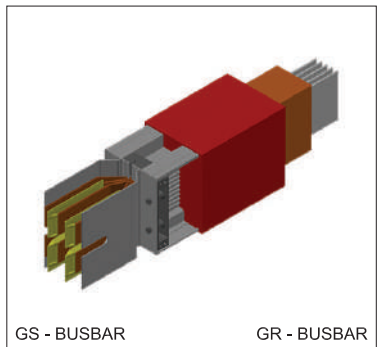
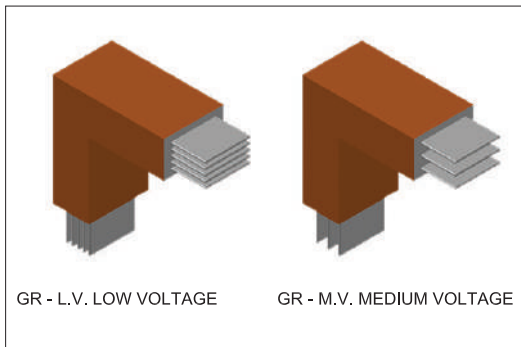
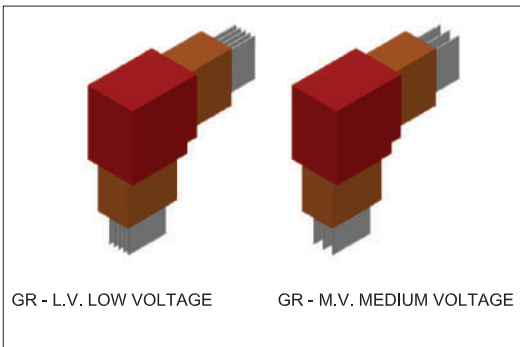
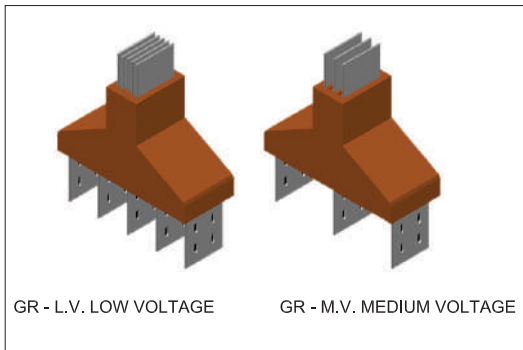
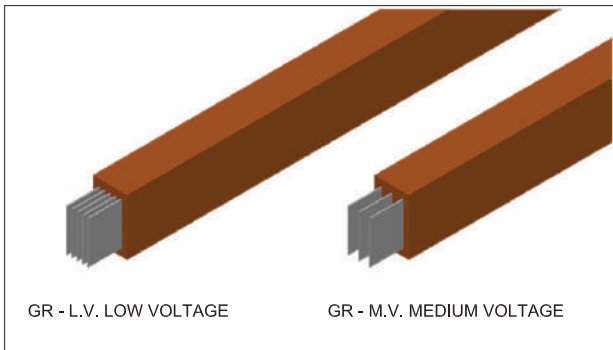
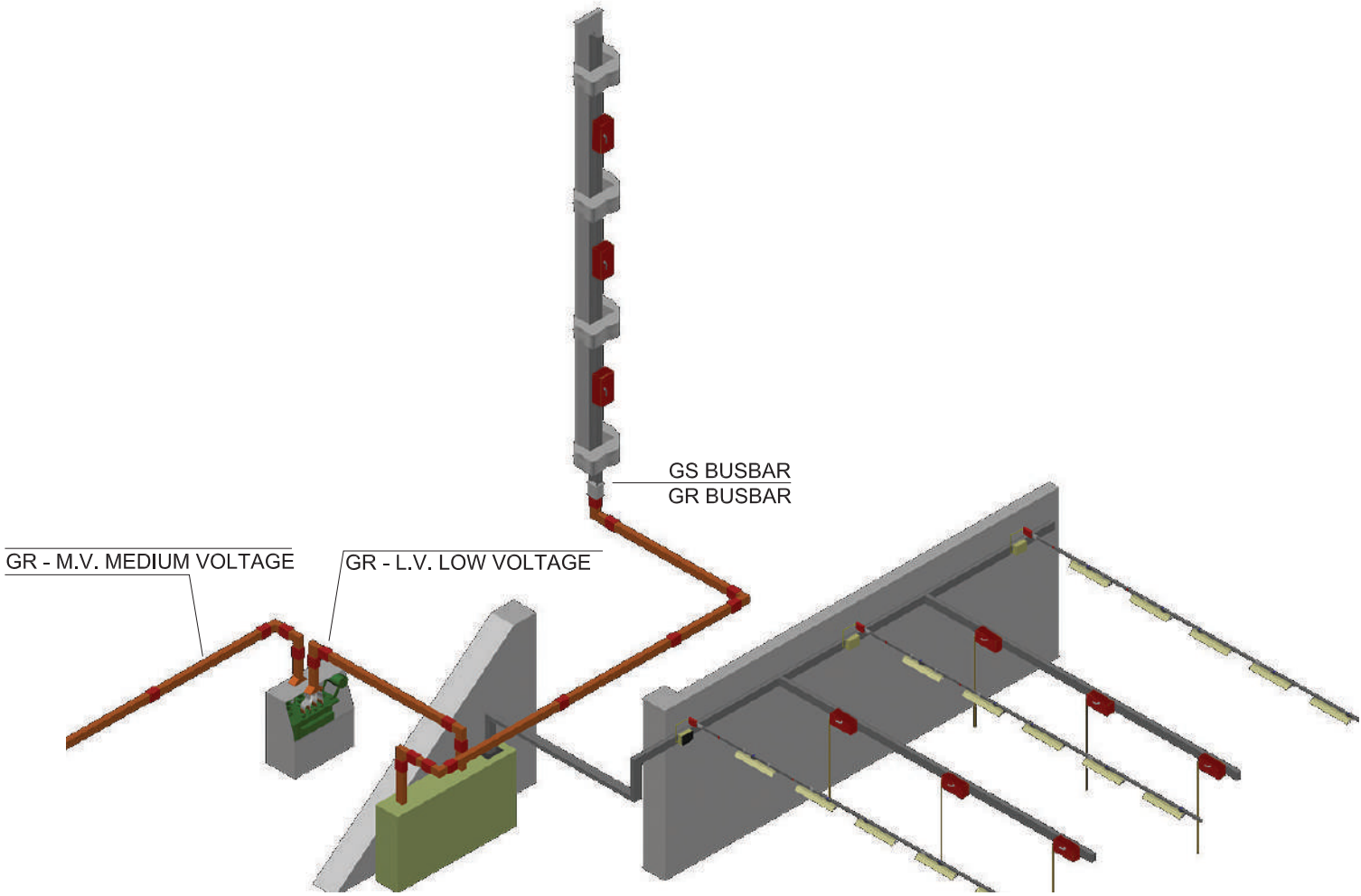


>(GR-A 2500A / GR-C 3200A)

GR-A 3200A	GR-C 4000A
GR-A 4000A	GR-C 5000A
GR-A 5000A	GR-C 6000A



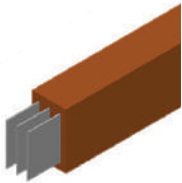
CAST RESIN BUSBAR TRUNKING SYSTEMS



Standard Length Element (Bolt-on)

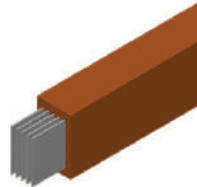
GR-A 3P

Order code	Stock code	Amper A	Weight (Kg/Unit)
GR-A3 030105	850105005524030	500	124.680
GR-A3 030106	850106305524030	630	124.680
GR-A3 030108	850108005524030	800	124.680
GR-A3 030110	850110005524030	1000	124.680
GR-A3 030112	850112505524030	1250	124.680
GR-A3 030116	850116005524030	1600	122.910
GR-A3 030120	850120005524030	2000	157.830
GR-A3 030125	850125005524030	2500	157.830



GR-A 3P+N+Pe

Order code	Stock code	Amper A	Weight (Kg/Unit)
GR-A5 050105	850105005524050	500	147.850
GR-A5 050106	850106305524050	630	147.850
GR-A5 050108	850108005524050	800	147.850
GR-A5 050110	850110005524050	1000	147.850
GR-A5 050112	850112505524050	1250	147.850
GR-A5 050116	850116005524050	1600	150.340
GR-A5 050120	850120005524050	2000	196.040
GR-A5 050125	850125005524050	2500	196.040

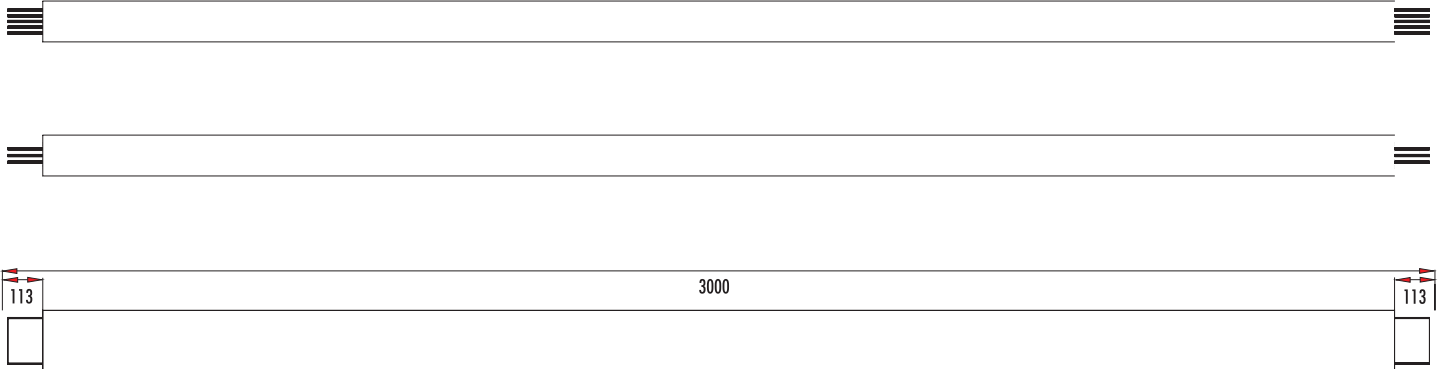


GR-C 3P

GR-C3 030105	860105005514031	500	131.690
GR-C3 030106	860106305514031	630	131.690
GR-C3 030108	860108005514031	800	131.690
GR-C3 030110	860110005514031	1000	131.690
GR-C3 030112	860112505514031	1250	131.690
GR-C3 030116	860116005514031	1600	131.690
GR-C3 030120	860120005514031	2000	131.230
GR-C3 030125	860125005514031	2500	169.380
GR-C3 030132	860132005524031	3200	169.380

GR-C 3P+N+Pe

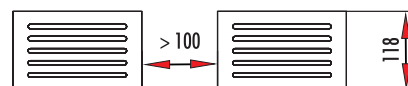
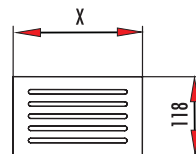
GR-C5 050105	860105005514051	500	227.790
GR-C5 050106	860106305514051	630	227.790
GR-C5 050108	860108005514051	800	227.790
GR-C5 050110	860110005514051	1000	227.790
GR-C5 050112	860112505514051	1250	227.790
GR-C5 050116	860116005514051	1600	227.790
GR-C5 050120	860120005514051	2000	245.200
GR-C5 050125	860125005514051	2500	327.740
GR-C5 050132	860132005524051	3200	327.740



GR-C		X mm
	GR-C 500A	170
GR-A 500A	GR-C 630A	170
GR-A 630A	GR-C 800A	170
GR-A 800A	GR-C 1000A	170
GR-A 1000A	GR-C 1250A	170
GR-A 1250A	GR-C 1600A	170
GR-A 1600A	GR-C 2000A	170
GR-A 2000A	GR-C 2500A	220
GR-A 2500A	GR-C 3200A	220

>(GR-A 2500A / GR-C 3200A)

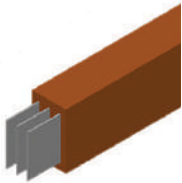
GR-A 3200A	GR-C 4000A
GR-A 4000A	GR-C 5000A
GR-A 5000A	GR-C 6000A



Non Standard Length Element (Bolt-on)

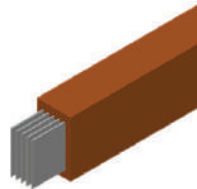
GR-A 3P

Order code	Stock code	Amper A	Weight (Kg/Unit)
GR-A3 030105	850105005524030	500	124.680
GR-A3 030106	850106305524030	630	124.680
GR-A3 030108	850108005524030	800	124.680
GR-A3 030110	850110005524030	1000	124.680
GR-A3 030112	850112505524030	1250	124.680
GR-A3 030116	850116005524030	1600	122.910
GR-A3 030120	850120005524030	2000	157.830
GR-A3 030125	850125005524030	2500	157.830



GR-A 3P+N+Pe

Order code	Stock code	Amper A	Weight (Kg/Unit)
GR-A5 050105	850105005524050	500	147.850
GR-A5 050106	850106305524050	630	147.850
GR-A5 050108	850108005524050	800	147.850
GR-A5 050110	850110005524050	1000	147.850
GR-A5 050112	850112505524050	1250	147.850
GR-A5 050116	850116005524050	1600	150.340
GR-A5 050120	850120005524050	2000	196.040
GR-A5 050125	850125005524050	2500	196.040

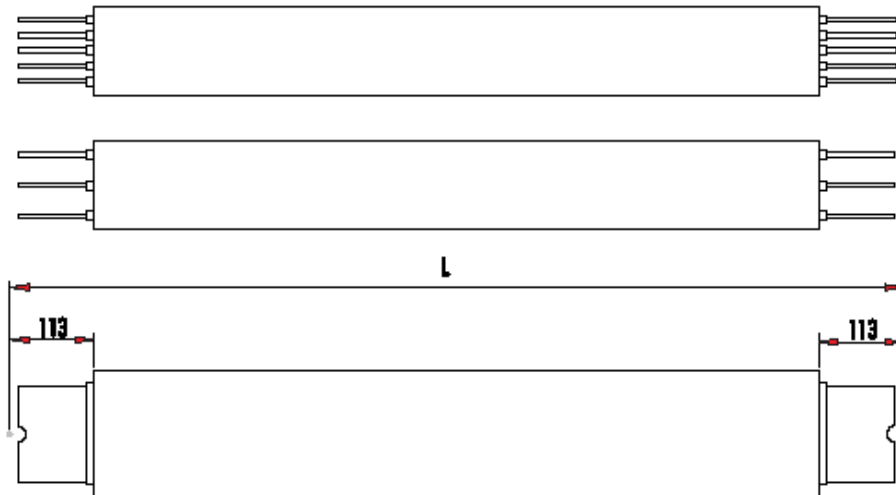


GR-C 3P

GR-C3 030105	860105005514031	500	131.690
GR-C3 030106	860106305514031	630	131.690
GR-C3 030108	860108005514031	800	131.690
GR-C3 030110	860110005514031	1000	131.690
GR-C3 030112	860112505514031	1250	131.690
GR-C3 030116	860116005514031	1600	131.690
GR-C3 030120	860120005514031	2000	131.230
GR-C3 030125	860125005514031	2500	169.380
GR-C3 030132	860132005524031	3200	169.380

GR-C 3P+N+Pe

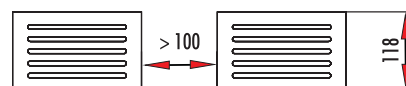
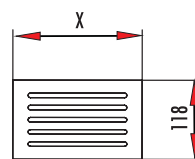
GR-C5 050105	860105005514051	500	227.790
GR-C5 050106	860106305514051	630	227.790
GR-C5 050108	860108005514051	800	227.790
GR-C5 050110	860110005514051	1000	227.790
GR-C5 050112	860112505514051	1250	227.790
GR-C5 050116	860116005514051	1600	227.790
GR-C5 050120	860120005514051	2000	245.200
GR-C5 050125	860125005514051	2500	327.740
GR-C5 050132	860132005524051	3200	327.740



GR-C		X mm
	GR-C 500A	170
GR-A 500A	GR-C 630A	170
GR-A 630A	GR-C 800A	170
GR-A 800A	GR-C 1000A	170
GR-A 1000A	GR-C 1250A	170
GR-A 1250A	GR-C 1600A	170
GR-A 1600A	GR-C 2000A	170
GR-A 2000A	GR-C 2500A	220
GR-A 2500A	GR-C 3200A	220

>(GR-A 2500A / GR-C 3200A)

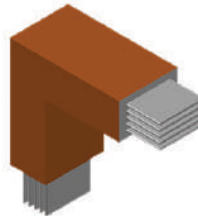
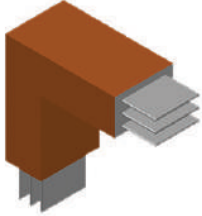
GR-A 3200A	GR-C 4000A
GR-A 4000A	GR-C 5000A
GR-A 5000A	GR-C 6000A



90° Vertical Elbow Element

GR-A 3P

Order code	Stock code	Amper A	Weight (Kg/Unit)
GR-A3 VE 05	853105005520030	500	11.920
GR-A3 VE 06	853106305520030	630	11.920
GR-A3 VE 08	853108005520030	800	11.920
GR-A3 VE 10	853110005520030	1000	11.920
GR-A3 VE 12	853112505520030	1250	11.920
GR-A3 VE 16	853116005520030	1600	12.190
GR-A3 VE 20	853120005520030	2000	17.970
GR-A3 VE 25	853125005520030	2500	17.970



GR-A 3P+N+Pe

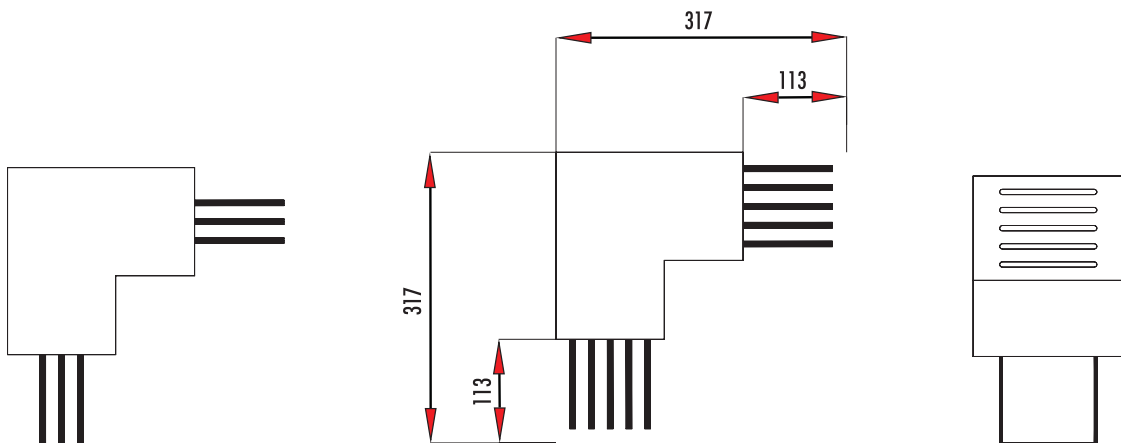
Order code	Stock code	Amper A	Weight (Kg/Unit)
GR-A5 VE 05	853105005520050	500	12.970
GR-A5 VE 06	853106305520050	630	12.970
GR-A5 VE 08	853108005520050	800	12.970
GR-A5 VE 10	853110005520050	1000	12.970
GR-A5 VE 12	853112505520050	1250	12.970
GR-A5 VE 16	853116005520050	1600	13.430
GR-A5 VE 20	853120005520050	2000	20.450
GR-A5 VE 25	853125005520050	2500	20.450

GR-C 3P

GR-C3 VE 05	863105005510031	500	17.790
GR-C3 VE 06	863106305510031	630	17.790
GR-C3 VE 08	863108005510031	800	17.790
GR-C3 VE 10	863110005510031	1000	17.790
GR-C3 VE 12	863112505510031	1250	17.790
GR-C3 VE 16	863116005510031	1600	17.790
GR-C3 VE 20	863120005510031	2000	19.130
GR-C3 VE 25	863125005510031	2500	28.410
GR-C3 VE 32	863132005510031	3200	28.410

GR-C 3P+N+Pe

GR-C5 VE 05	863105005510051	500	22.790
GR-C5 VE 06	863106305510051	630	22.790
GR-C5 VE 08	863108005510051	800	22.790
GR-C5 VE 10	863110005510051	1000	22.790
GR-C5 VE 12	863112505510051	1250	22.790
GR-C5 VE 16	863116005510051	1600	22.790
GR-C5 VE 20	863120005510051	2000	25.010
GR-C5 VE 25	863125005510051	2500	36.550
GR-C5 VE 32	863132005510051	3200	36.550



90° Horizontal Elbow Element

GR-A 3P

Order code	Stock code	Amper A	X mm	Y mm	Weight (Kg/Unit)
GR-A3 HE 05	852905005520030	500	402	402	16.320
GR-A3 HE 06	852906305520030	630	402	402	16.320
GR-A3 HE 08	852908005520030	800	402	402	16.320
GR-A3 HE 10	852910005520030	1000	402	402	16.320
GR-A3 HE 12	852912505520030	1250	402	402	16.320
GR-A3 HE 16	852916005520030	1600	402	402	12.930
GR-A3 HE 20	852920005520030	2000	427	427	18.100
GR-A3 HE 25	852925005520030	2500	427	427	18.100



GR-A 3P+N+Pe

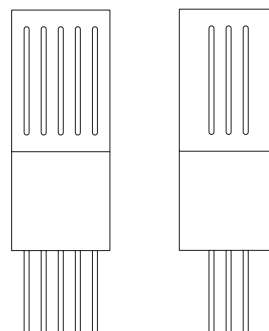
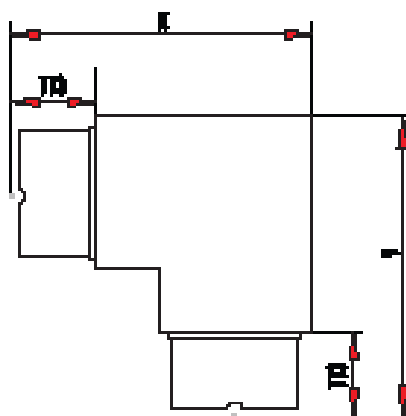
Order code	Stock code	Amper A	X mm	Y mm	Weight (Kg/Unit)
GR-A5 HE 05	852905005520050	500	402	402	17.490
GR-A5 HE 06	852906305520050	630	402	402	17.490
GR-A5 HE 08	852908005520050	800	402	402	17.490
GR-A5 HE 10	852910005520050	1000	402	402	17.490
GR-A5 HE 12	852912505520050	1250	402	402	17.490
GR-A5 HE 16	852916005520050	1600	402	402	18.040
GR-A5 HE 20	852920005520050	2000	427	427	21.980
GR-A5 HE 25	852925005520050	2500	427	427	21.980

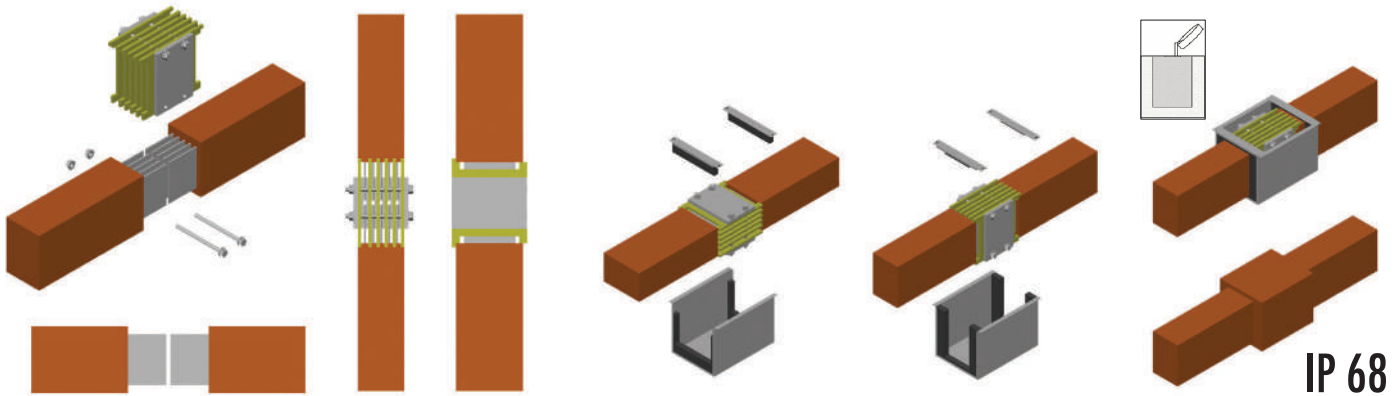
GR-C 3P

GR-C3 HE 05	862905005510031	500	402	402	23.630
GR-C3 HE 06	862906305510031	630	402	402	23.630
GR-C3 HE 08	862908005510031	800	402	402	23.630
GR-C3 HE 10	862910005510031	1000	402	402	23.630
GR-C3 HE 12	862912505510031	1250	402	402	23.630
GR-C3 HE 16	862916005510031	1600	402	402	23.630
GR-C3 HE 20	862920005510031	2000	402	402	25.270
GR-C3 HE 25	862925005510031	2500	427	427	31.010
GR-C3 HE 32	862932005510031	3200	427	427	31.010

GR-C 3P+N+Pe

GR-C5 HE 05	862905005510051	500	402	402	29.640
GR-C5 HE 06	862906305510051	630	402	402	29.640
GR-C5 HE 08	862908005510051	800	402	402	29.640
GR-C5 HE 10	862910005510051	1000	402	402	29.640
GR-C5 HE 12	862912505510051	1250	402	402	29.640
GR-C5 HE 16	862916005510051	1600	402	402	29.640
GR-C5 HE 20	862920005510051	2000	402	402	32.430
GR-C5 HE 25	862925005510051	2500	427	427	39.860
GR-C5 HE 32	862932005510051	3200	427	427	39.860





GRA - Technical Details

		500A	630A	800A	1000A	1250A	1600A	2000A	2500A	3200A	4000A	5000A	
		500	630	800	1000	1250	1600	2000	2500	1600	4000	2500	A
<i>Insulation Voltage</i>	U_i	36									36		kV
<i>Gross Section of Phase/Neutral/Earth</i>	S_f	660	660	660	660	660	780	1080	1080	1560	2160	2160	mm ²
<i>Short-Circuit Current of Phases (1s)</i>	I_{cw}	50	50	50	50	50	50	50	50	100	100	100	kA
<i>Peak Current of Phases</i>	I_{pk}	110	110	110	110	110	110	110	110	220	220	220	kA
<i>Phase Resistance</i>	R_1	0,062	0,062	0,062	0,062	0,062	0,038	0,029	0,029	0,019	0,015	0,015	mΩ/m
<i>Phase Reactance</i>	X_1	0,015	0,015	0,015	0,015	0,015	0,030	0,014	0,014	0,015	0,007	0,007	mΩ/m
<i>Phase Impedance</i>	Z_1	0,064	0,064	0,064	0,064	0,064	0,048	0,032	0,032	0,024	0,016	0,016	mΩ/m

GRC - Technical Details

		500A	630A	800A	1000A	1250A	1600A	2000A	2500A	3200A	4000A	5000A	6300A	
		500	630	800	1000	1250	1600	2000	2500	3200	4000	5000	6300	A
<i>Insulation Voltage</i>	U_i	36									36			kV
<i>Gross Section of Phase/Neutral/Earth</i>	S_f	660	660	660	660	660	660	780	1080	1080	1560	2160	2160	mm ²
<i>Short-Circuit Current of Phases (1s)</i>	I_{cw}	50	50	50	50	50	50	50	50	50	100	100	100	kA
<i>Peak Current of Phases</i>	I_{pk}	110	110	110	110	110	110	110	110	110	220	220	220	kA
<i>Phase Resistance</i>	R_1	0,038	0,038	0,038	0,038	0,038	0,038	0,023	0,022	0,022	0,012	0,011	0,011	mΩ/m
<i>Phase Reactance</i>	X_1	0,014	0,014	0,014	0,014	0,014	0,014	0,013	0,013	0,013	0,007	0,007	0,007	mΩ/m
<i>Phase Impedance</i>	Z_1	0,041	0,041	0,041	0,041	0,041	0,041	0,026	0,026	0,026	0,013	0,013	0,013	mΩ/m



Makalenin Tanımı - Description of the Mark
TSE

BELGE NUMARASI
REFERENCE NUMBER OF LICENCE: 008237-TSE-03/04

BELGENİN İLK VERİŞİ TARİHİ
DATE OF FIRST ISSUE OF LICENCE: 12.01.2010

BELGENİN SON GEÇERLİLİK TARİHİ
LICENCE VALID UNTIL: 22.10.2023

BELGE SAHİBİ KURULUŞUN ADI
NAME OF THE LICENCE HOLDER: GERSAN ELEKTRİK TİC.VE SAN. A.Ş.

BELGE SAHİBİ KURULUŞUN ADRESİ
ADDRESS OF THE LICENCE HOLDER: AYDINLI - İSTANBUL AYOSB MAH. GAZI BULV. NO:39 TUZLA İSTANBUL/TÜRKİYE

ÜRETİM YERİ ADI
NAME OF THE MANUFACTURING PLACE: GERSAN ELEKTRİK TİCARET VE SANAYİ A.Ş.

ÜRETİM YERİ ADRESİ
ADDRESS OF THE MANUFACTURING PLACE: ORGANİZE SANAYİ BÖLGESİ 1 NOLU MEYDANI 1 CAD. 6. VE 7. SK. ÇAYCILMAI ZONULUDAKİ TÜRKİYE

İPTAL EDİLEN BELGE NUMARASI (Varsa)
INDICATION OF SUPERSEDED LICENCE (if any): 008237-TSE-03/03

TESCİLLİ TİCARİ MARKASI
REGISTERED TRADE MARK: GERSAN ELEKTRİK TİC. VE SAN. A.Ş. çelikli bariyer

İLGİLİ TÜRK STANDARDI
RELATED TURKISH STANDARD: TS EN 61439-6 / 18.03.2015

BELGE KAPSAMI
SCOPE OF LICENCE: BUSBAR TRUNKING SYSTEMS (BUSBARS)
MODEL : GNL 25 A, GNL 40 A MODEL Ue: 690 V Uf: 690 V FREQUENCY: 50 HZ İP: 43/55 (WITH SILICONE)
MODEL : GL 40 A, GL 85 A MODEL Ue: 850 V Uf: 850 V FREQUENCY: 50 HZ İP: 49/55 (WITH SILICONE) PHASE: 3P+N+E+PE İN: 80 A, 63 A low: 3 kA (1 SC)4/5 kA AL BRAID SECTIONS: 14 mm², E SECTIONS: 14 mm², PE SECTIONS: 260 mm²
MODEL : GGD COMPACT 160 A, GGD COMPACT 250 A MODEL Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 50/55 (WITH SILICONE) PHASE: 3P+N+E+PE İN: 160 A, 250 A low: 13 kA (1 SC)2/8 kA AL BRAID SECTIONS: 144 mm², E SECTIONS: 144 mm², PE SECTIONS: 1083 mm²
MODEL : GGD COMPACT 315 A, GGD COMPACT 400 A MODEL Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 50/55 (WITH SILICONE) PHASE: 3P+N+E+PE İN: 315 A, 400 A low: 20 kA (1 SC)4/4 kA AL BRAID SECTIONS: 279 mm², E SECTIONS: 279 mm², PE SECTIONS: 1083 mm²



29.09.2022
On Behalf Of The Head Of Certification Center
SOYDAN CERAN
ELECTROTECHNICAL SECTOR MANAGER

*This certificate also shows that the production shop of the certified product meets the requirements of the rules.
*This certificate under any circumstances cannot be changed. Duplicate copies of it may be made. It is valid for use and cannot be sold.
*TSE ELECTROTECHNICAL SECTOR (ELECTROTEC) - Address: Nispetiye Cad No:110/100 Beşiktaş/İSTANBUL - Telephone: 0212 414 63 89 Fax: 0212 414 68 17
*TSE HEAD OF CERTIFICATION CENTER - Address: Nispetiye Cad No:112 80/00 Beşiktaş/İSTANBUL - Telephone: 0212 414 63 89 Fax: 0212 414 68 17 E-mail: arslan@tse.org.tr, web: www.tse.org.tr

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Makalenin Tanımı - Description of the Mark
TSE

BELGE KAPSAMI (008237-TSE-03/04)no.lu belge devamı) : GERSAN ELEKTRİK TİC.VE SAN. A.Ş.
İLGİLİ TÜRK STANDARDI(RELATED TURKISH STANDARD): TS EN 61439-6 / 18.03.2015

MODEL : GGD COMPACT 500 A, GGD COMPACT 630 A MODEL Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 60/56 (WITH SILICONE) PHASE: 3P+N+E+PE İN: 500 A, 630 A low: 25 kA (1 SC)5/5 kA AL BRAID SECTIONS: 500 mm², E SECTIONS: 500 mm², PE SECTIONS: 1200 mm²
MODEL : GGD COMPACT 800 A Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 50/55 (WITH SILICONE) PHASE: 3P+N+E+PE İN: 800 A low: 35 kA (1 SC)8/8 kA AL BRAID SECTIONS: 600 mm², E SECTIONS: 600 mm², PE SECTIONS: 1200 mm²
MODEL : GGD COMPACT 1000 A MODEL Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 50/55 (WITH SILICONE) PHASE: 3P+N+E+PE İN: 1000 A low: 40 kA (1 SC)9/6 kA AL BRAID SECTIONS: 700 mm², E SECTIONS: 700 mm², PE SECTIONS: 1200 mm²
MODEL : GS-A COMPACT 500 A, GS-A COMPACT 630 A, GS-A COMPACT 800 A Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E+PE İN: 500 A, 630 A, 800 A low: 50 kA (1 SC)11/10 kA Ump: 8 kV AL BRAID SECTIONS: 330 mm², E SECTIONS: 168 mm², PE SECTIONS: 1364 mm²
MODEL : GS-A COMPACT 1000 A Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E+PE İN: 1000 A low: 50 kA (1 SC)11/10 kA Ump: 8 kV AL BRAID SECTIONS: 450 mm², E SECTIONS: 225 mm², PE SECTIONS: 1450 mm²
MODEL : GS-A COMPACT 1250 A Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E+PE İN: 1250 A low: 65 kA (1 SC)15/10 kA Ump: 8 kV AL BRAID SECTIONS: 660 mm², E SECTIONS: 330 mm², PE SECTIONS: 2295 mm²
MODEL : GS-A COMPACT 1600 A Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E+PE İN: 1600 A low: 80 kA (1 SC)17/5 kA Ump: 8 kV AL BRAID SECTIONS: 1040 mm², E SECTIONS: 520 mm², PE SECTIONS: 2944 mm²
MODEL : GS-A COMPACT 2000 A Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E+PE İN: 2000 A low: 80 kA (1 SC)17/5 kA Ump: 8 kV AL BRAID SECTIONS: 1080 mm², E SECTIONS: 540 mm², PE SECTIONS: 2953 mm²
MODEL : GS-A COMPACT 2500 A Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E+PE İN: 2500 A low: 110 kA (1 SC)22/6 kA Ump: 8 kV AL BRAID SECTIONS: 1320 mm², E SECTIONS: 660 mm², PE SECTIONS: 4590 mm²
MODEL : GS-A COMPACT 3200 A Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E+PE İN: 3200 A low: 120 kA (1 SC)26/6 kA Ump: 8 kV AL BRAID SECTIONS: 2080 mm², E SECTIONS: 1040 mm², PE SECTIONS: 4688 mm²
MODEL : GS-A COMPACT 4000 A Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E+PE İN: 4000 A low: 150 kA (1 SC)33/6 kA Ump: 8 kV AL BRAID SECTIONS: 2180 mm², E SECTIONS: 1090 mm², PE SECTIONS: 6295 mm²
MODEL : GS-A COMPACT 5000 A Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E+PE İN: 5000 A low: 150 kA (1 SC)33/6 kA Ump: 8 kV AL BRAID SECTIONS: 2180 mm², E SECTIONS: 1090 mm², PE SECTIONS: 7810 mm²
MODEL : GS-C COMPACT 500 A, GS-C COMPACT 630 A, GS-C COMPACT 800 A, GS-C COMPACT 1000 A Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 60 / X8 (WITH RESIN) PHASE: 3P+N+E+PE İN: 500 A, 630 A, 800 A, 1000 A low: 50 kA (1 SC)11/10 kA Ump: 8 kV CU BRAID SECTIONS: 330 mm², E SECTIONS: 165 mm², PE SECTIONS: 1364 mm²

29.09.2022
On Behalf Of The Head Of Certification Center
SOYDAN CERAN
ELECTROTECHNICAL SECTOR MANAGER

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*TSE HEAD OF CERTIFICATION CENTER - Address: Nispetiye Cad No:112 80/00 Beşiktaş/İSTANBUL - Telephone: 0212 414 63 89 Fax: 0212 414 68 17 E-mail: arslan@tse.org.tr, web: www.tse.org.tr

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Makalenin Tanımı - Description of the Mark
TSE

BELGE KAPSAMI (008237-TSE-03/04)no.lu belge devamı) : GERSAN ELEKTRİK TİC.VE SAN. A.Ş.
İLGİLİ TÜRK STANDARDI(RELATED TURKISH STANDARD): TS EN 61439-6 / 18.03.2015

SECTIONS: 1364 mm²
MODEL : GS-C COMPACT 1250 A Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E+PE İN: 1250 A low: 50 kA (1 SC)11/10 kA Ump: 8 kV CU BRAID SECTIONS: 450 mm², E SECTIONS: 225 mm², PE SECTIONS: 1450 mm²
MODEL : GS-C COMPACT 1600 A Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E+PE İN: 1600 A low: 65 kA (1 SC)15/10 kA Ump: 8 kV CU BRAID SECTIONS: 660 mm², E SECTIONS: 330 mm², PE SECTIONS: 2295 mm²
MODEL : GS-C COMPACT 2000 A Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E+PE İN: 2000 A low: 80 kA (1 SC)17/5 kA Ump: 8 kV CU BRAID SECTIONS: 1040 mm², E SECTIONS: 520 mm², PE SECTIONS: 2944 mm²
MODEL : GS-C COMPACT 2500 A Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E+PE İN: 2500 A low: 80 kA (1 SC)17/5 kA Ump: 8 kV CU BRAID SECTIONS: 1080 mm², E SECTIONS: 540 mm², PE SECTIONS: 2953 mm²
MODEL : GS-C COMPACT 3200 A Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E+PE İN: 3200 A low: 120 kA (1 SC)26/6 kA Ump: 8 kV CU BRAID SECTIONS: 1320 mm², E SECTIONS: 660 mm², PE SECTIONS: 4590 mm²
MODEL : GS-C COMPACT 4000 A Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E+PE İN: 4000 A low: 150 kA (1 SC)33/6 kA Ump: 8 kV CU BRAID SECTIONS: 2180 mm², E SECTIONS: 1090 mm², PE SECTIONS: 6295 mm²
MODEL : GS-C COMPACT 5000 A Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E+PE İN: 5000 A low: 150 kA (1 SC)33/6 kA Ump: 8 kV CU BRAID SECTIONS: 2180 mm², E SECTIONS: 1090 mm², PE SECTIONS: 7810 mm²
MODEL : GGD/GS COMPACT PLUG IN 160 A, GGD/GS COMPACT PLUG IN 250 A, GGD/GS COMPACT PLUG IN 400 A, GGD/GS COMPACT PLUG IN 630 A, WITH BREAKERS/SWITCH CIRCUIT BREAKER Ue: 1000 V Uf: 1000 V FREQUENCY: 50 HZ İP: 55 PHASE: 3P+N+E+PE İN: 160 A, 250 A, 400 A, 630 A low: 150 kA/300 kA (1 SC) Ump: 8 kV
NOTE: REFERRING TO TS EN 61439-6 CLAUSE 10.10.2.1 MODELS IN 3 PHASE BUSBARS ARE VALID FOR 3 WIRE, 4 WIRE AND 5 WIRE.

29.09.2022
On Behalf Of The Head Of Certification Center
SOYDAN CERAN
ELECTROTECHNICAL SECTOR MANAGER

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ASSOCIAZIONE PER LA CERTIFICAZIONE DELLE APPARECCHIATURE ELETTRICHE
Via Tito Livio, 5 - 24123 BERGAMO (Italy)
Tel. +39 035 4175244 e-mail: acae@cacert.it

Certificate of conformity n° A 15.035
page 1 of 2

Apparatus: Low-voltage tap-off unit 1000V (U_i) – 250/400/630A (I_{na}) – 50-60Hz (f) – 1000V (U_i) – 4kV (U_{imp}) – 7kA, Is (I_{sc}) – 36kA (I_{na}) at 420V – IP55 – 3Ph+N+1/2E and Aluminium Housing

Designation: GGD-GS 0-630 A PLUG-IN TOB

Manufacturer: GERSAN ELEKTRIK TIC. ve SAN. A. S. Anadolu Yakasi Organize Sanayi Bolgesi Gazi Bulvari No. 39-41 – P.K. 57 34953 TUZLA – ISTANBUL (Turkey)

Applicant: GERSAN ELEKTRIK

Tested by: VEIKI-VNL – BUDAPEST (Hungary) LVT - ANKARA (Turkey)

The apparatus, constructed in accordance with the description mentioned in the documents listed on this Certificate has been subjected to the series of proving tests in accordance with IEC 60439-2 (2005-10) and IEC 61439-6 (2012-05).

The results of the tests carried out fulfill the requirements of the relevant parts of IEC 61439-6 (2012-05), according to sub. 10.1 of IEC 61439-1 (2009-01).

The results are shown in the attached documents according to ACAE procedures. The values obtained and the general performance are considered to comply with the above Standard(s) and to justify the characteristic assigned by the manufacturer as stated in the following.

This Certificate applies only to the apparatus verified. The responsibility for conformity of any apparatus having the same designation with that verified rests with the manufacturer or responsible vendor.
Only integral reproduction of this Certificate or reproductions of this page accompanied by any page(s) on which are stated the verifications performed and the assigned rated characteristics of the apparatus verified, are permitted without written permission from the ACAE.

Scaroni
The General Secretary
Date: 2015.03.20

ACAE is member of:



MOD 006 pag 1 Revision 01



ASSOCIAZIONE PER LA CERTIFICAZIONE DELLE APPARECCHIATURE ELETTRICHE
Via Tito Livio, 5 - 24123 BERGAMO (Italy)
Tel. +39 035 4175244 e-mail: acae@cacert.it

Certificate of conformity n° A 14.050
page 1 of 2

Apparatus: Low-voltage busbar trunking system 690V (U_i) – 63A (I_{na}) – 50Hz (f) – 1000 V (U_i) – 3.5kV (U_{imp}) – 3kA, Is (I_{sc}) – 4,5kA (I_{na}) – IP43 5 Copper Bars (3Ph+N+PE) and Aluminium Housing (E)

Designation: GL

Manufacturer or responsible vendor: GERSAN ELEKTRIK TIC. ve SAN. A. S. Anadolu Yakasi Organize Sanayi Bolgesi Gazi Bulvari No. 39-41 – P.K. 57 – 34953 TUZLA – ISTANBUL (Turkey)

Applicant: GERSAN ELEKTRIK – ISTANBUL (Turkey)

Tested by: IPH – BERLIN (Germany) MPA – DRESDEN (Germany)

This Certificate applies only to the apparatus tested. The responsibility for conformity of any apparatus having the same designation with that tested rests with the manufacturer or responsible vendor.
Only integral reproduction of this Certificate or reproductions of this page accompanied by any page(s) on which are stated the tests performed and the assigned rated characteristics of the apparatus tested, are permitted without written permission from the ACAE.

The apparatus, constructed in accordance with the description mentioned in the documents listed on this Certificate has been subjected to the series of proving tests in accordance with IEC 60439-2 (2005-10).

The results of the tests carried out fulfill the requirements of the relevant parts of IEC 61439-6 (2012-05), according to sub. 10.1 of IEC 61439-1 (2009-01).

The results are shown in the attached documents according to ACAE procedures. The values obtained and the general performance are considered to comply with the above Standard(s) and to justify the characteristic assigned by the manufacturer as stated below.

This document includes:
ASTA Certificate No. 17021
Issue Date: 6th July 2010
Extract from LOVAG Test Report No. 5983/VNL (pages 1, 12)
Issue date: 11.11.2010



Scaroni
The General Secretary
Date: 2014.09.15

MOD 006 pag 1 Revision 01



ASSOCIAZIONE PER LA CERTIFICAZIONE DELLE APPARECCHIATURE ELETTRICHE
Via Tito Livio, 5 - 24123 - BERGAMO (Italy)
Tel. +390354175244 fax. +390354534662 e-mail: acae@cacert.it



Certificate of Conformity

LOVAG-Certificate No. IT 14.084
Page 1 of 2

Apparatus: Low-voltage busbar trunking system 690V (U_i) – 40A (I_{na}) – 50Hz (f) – 1000V (U_i) – 3,5kV (U_{imp}) – 3,5kA, Is (I_{sc}) – 5,25kA (I_{na}) – IP55 5 Copper Wires (3Ph+N+PE) and Aluminium Housing (E)
Designation: GNL 25-40A

Manufacturer or responsible vendor: GERSAN ELEKTRIK TIC. ve SAN. A. S. Anadolu Yakasi Organize Sanayi Bolgesi Gazi Bulvari No. 39-41 – P.K. 57 34953 TUZLA – ISTANBUL (Turkey)

Applicant: GERSAN ELEKTRIK – ISTANBUL (Turkey)

Tested by: VEIKI-VNL – BUDAPEST (Hungary)

This certificate applies only to the apparatus tested. The responsibility for conformity of any apparatus having the same designation with that tested rests with the manufacturer or responsible vendor.

This certificate has been prepared according to LOVAG (Low Voltage Agreement Group) Objectives and Operating Principles of mutual recognition. The responsible certification body as member of LOVAG issues a Certificate of Conformity with the above mentioned Standard(s) following the exclusive use of LOVAG Test Instructions wherever applicable.

Only integral reproduction of this Certificate or reproductions of this page accompanied by any page(s) on which are stated the tests performed and the assigned rated characteristics of the apparatus tested, are permitted without written permission from the LOVAG responsible for this Certificate.

The apparatus, constructed in accordance with the description mentioned in the documents listed on this Certificate has been subjected to the series of proving tests in accordance with IEC 60439-2 (2005-10).

The results of the tests carried out fulfill the requirements of the relevant parts of IEC 61439-6 (2012-05), according to sub. 10.1 of IEC 61439-1 (2009-01).

The results are shown in the Test Report in accordance to LOVAG. The values obtained and the general performance are considered to comply with the above Standard(s) and to justify the characteristics assigned by the manufacturer as stated below.

Responsible Certification Body : ACAE
Virginia Scaroni

Scaroni
Authorized signature
Date: 2014.09.15



MOD 007 pag 1 Revision 01

ТАМОЖЕННЫЙ СОЮЗ

СЕРТИФИКАТ СООТВЕТСТВИЯ

№ ТС RU C-RU.AB24.B.03231
Серия RU № 0348289

ОРГАН ПО СЕРТИФИКАЦИИ Орган по сертификации продукции Общество с ограниченной ответственностью "СЕРТИФИКАЦИЯ ПРОДУКЦИИ "СТАНДАРТ-ТЕСТ". Адрес: 121471 г. Москва, Можайское шоссе, д. 29, Фактический адрес: 121471, Россия, Москва, Можайское шоссе, дом 29. Телефон: +74957415932, E-mail: info@standart-test.ru, Аттестат рег. № РОСС RU.0001.11AB24 выдан 10.09.2014 ФЕДЕРАЛЬНОЙ СЛУЖБЕЙ ПО АККРЕДИТАЦИИ "РОСАККРЕДИТАЦИЯ".

ЗАЯВИТЕЛЬ Закрытое акционерное общество "ТЕРСАН-Р". ОГРН: 1097847210251. Место нахождения: 238460, Калининградская область, Багратионовский район, поселок Раздольное, улица Паленбургская, дом 12, Российская Федерация. Фактический адрес: 238460, Калининградская область, Багратионовский район, поселок Раздольное, улица Паленбургская, дом 12, Российская Федерация. Телефон: +7(4012)310-301, факс: +7(4012)310-301, адрес электронной почты: gersan-r@gersan.com.ru.

ИЗГОТОВИТЕЛЬ Закрытое акционерное общество "ТЕРСАН-Р". ОГРН: 1097847210251. Место нахождения: 238460, Калининградская область, Багратионовский район, поселок Раздольное, улица Паленбургская, дом 12, Российская Федерация. Фактический адрес: 238460, Калининградская область, Багратионовский район, поселок Раздольное, улица Паленбургская, дом 12, Российская Федерация.

ПРОДУКЦИЯ Устройства комплекты (шиннопровода) напряжением до 1000 В торговой марки «GERSAN»; модели: «GNL», «GL», «GGD», «GS-SUPER Compact», «GR» без соединителей и вместе с соединителями серий: «GDK», «GALFK», «GYDK», «GOR» (согласно приложению на 3-х листах, бланки №№ 0216771, 0216772, 0216773). Продукция изготовлена в соответствии с ГОСТ Р 51321.2-2009 (МЭК 60439-2-2005) «Устройства комплекты низковольтные распределения и управления. Часть 2. Дополнительные требования к шиннопроводам». Серийный выпуск.

КОД ТН ВЭД ТС 8536 90 010 0

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ ТР ТС 004/2011 "О безопасности низковольтного оборудования".

СЕРТИФИКАТ ВЫДАН НА ОСНОВАНИИ Протокол испытаний №№ 41С-11/2015, 41С-11/2015, 6ТС-11/2015, 7ТС-11/2015 от 03.11.2015 ИЦ ООО "ВЕРСТАТ", аттестат аккредитации № РОСС RU.0001.21AB78 от 07.02.2013 по 28.10.2016. Акт о результатах оценки системы производства № 3391 от 29.10.2015 Органа по сертификации ООО "СЕРТИФИКАЦИЯ ПРОДУКЦИИ "СТАНДАРТ-ТЕСТ", регистрационный № РОСС RU.0001.11AB24 от 20.05.2016, 121471, город Москва, Можайское шоссе, дом 29.

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ Указан перечень продукции в соответствии с ГОСТ 13186-01. Срок хранения (серийно) указан в отдельной в приложении к сертификату. Маркировка системы защиты оборудования на рынке и геометрия в Польше и в других чужих странах продукция на рынке государств - членов Таможенного союза, утверждена Рязанским Комитетом Таможенного союза от 15 октября 2015 года.

20.11.2015 ПО 19.11.2020 ВКЛЮЧИТЕЛЬНО

Исполнитель (уполномоченное лицо) органа по сертификации: Л.В. Козичук (подпись, фамилия)

Эксперт (эксперт-аудитор) (эксперты (эксперты-аудиторы)): М.П. Башутина (подпись, фамилия)

ТАМОЖЕННЫЙ СОЮЗ

ПРИЛОЖЕНИЕ

К СЕРТИФИКАТУ СООТВЕТСТВИЯ № ТС RU C-RU.AB24.B.03231
Серия RU № 0216771

Перечень продукции, на которую распространяется действие сертификата соответствия

Код ТН ВЭД ТС	Наименование, типы, марки, модели однородной продукции, составные части изделия или комплекса	Обозначение документации, по которой выпускается продукция
8536 90 010 0	Устройства комплекты (шиннопровода) напряжением до 1000 В торговой марки «GERSAN»; модели: «GNL», «GL», «GGD», «GS-SUPER Compact», «GR» без соединителей и вместе с соединителями серий: «GDK», «GALFK», «GYDK», «GOR»: - Система сборных шин (шиннопровод) GL, на токи от 25А до 160А со степенью защиты IP55; - Прямые элементы типа GL, длиной до 3000 мм алюминия (медь) на токи 25А-160А; - Устройство ввода и распределения энергии типа GL: терминальные блоки питания, центральный блок питания, гибкий элемент для поворота, вилка выхода, вилка выхода с предохранителем, выходные коробки; на токи от 16А до 160 А; - Изделия крепежные для систем сборных шин (шиннопровода) типа GL; - Система сборных шин (шиннопровод) серии GGDA и механическое расширение на токи от 160А до 1000А, со степенью защиты IP55 и IP65; - Прямые элементы типа GGDA длиной до 4000 мм, элементы с противоположным барьером, горизонтальные и вертикальные угловые элементы, Т-образные и гибкие элементы, элементы подключения к трансформаторам типа GGDA до 5-ти проводников из алюминия (медь) на токи от 160А до 1000А, элементы расширения, Z-образные элементы; - Однобортное соединение с крышками типа GGDA из алюминия (медь) на токи от 160А до 1000А; - Устройство ввода и распределения энергии типа GGDA: блок панели, блок питания панели, терминальный блок, терминальный блок питания, промежуточный блок питания, терминальная коробка версии NH, MCB, MCCB для предохранителей (автоматов) на токи до 1000А; - Система сборных шин (шиннопровод) серии GGDC и механическое расширение на токи от 160А до 1000А, со степенью защиты IP55 и IP65;	ГОСТ Р 51321.2-2009 (МЭК 60439-2-2005)

Исполнитель (уполномоченное лицо) органа по сертификации: Л.В. Козичук (подпись, фамилия)

Эксперт (эксперт-аудитор) (эксперты (эксперты-аудиторы)): М.П. Башутина (подпись, фамилия)

ТАМОЖЕННЫЙ СОЮЗ

ПРИЛОЖЕНИЕ

К СЕРТИФИКАТУ СООТВЕТСТВИЯ № ТС RU C-RU.AB24.B.03231
Серия RU № 0216772

Перечень продукции, на которую распространяется действие сертификата соответствия

Код ТН ВЭД ТС	Наименование, типы, марки, модели однородной продукции, составные части изделия или комплекса	Обозначение документации, по которой выпускается продукция
8536 90 010 0	Устройства комплекты (шиннопровода) напряжением до 1000 В торговой марки «GERSAN»; модели: «GNL», «GL», «GGD», «GS-SUPER Compact», «GR» без соединителей и вместе с соединителями серий: «GDK», «GALFK», «GYDK», «GOR»: - Прямые элементы типа GGDC длиной до 4000 мм с противоположным барьером, горизонтальные и вертикальные угловые элементы, Т-образные и гибкие элементы, элементы подключения к трансформаторам типа GGDC до 5-ти проводников из алюминия (медь) на токи от 160А до 1000А, элементы расширения, Z-образные элементы; - Однобортное соединение с крышками типа GGDC из алюминия (медь) на токи от 160А до 1000А; - Устройство ввода и распределения энергии типа GGDC: блок питания панели, терминальный блок питания, промежуточный блок питания, терминальная коробка версии NH, MCB, MCCB для предохранителей (автоматов); на токи до 1000А; - Изделия крепежные для систем сборных шин (шиннопровода) типа GGD; - Система сборных шин (шиннопровод) серии GS на токи от 500А до 6300А, со степенью защиты IP55 и IP65; - Прямые элементы типа GS-AB длиной до 4000 мм до 5-ти проводников из алюминия (медь) на токи от 500А до 6300А; - Прямые элементы типа GS-AP длиной до 4000 мм до 5-ти проводников из алюминия (медь) на токи от 500А до 6300А; - Элементы расширения; - Горизонтальные и вертикальные угловые элементы, Т-образные, Z-образные элементы, элементы расширения, понижающие элементы, элементы изменения положения фаз-нуля трансформатора типа GS до 5-ти проводников; - Элементы с огнезащитными барьерами; - Однобортное соединение типа GS из алюминия (медь) на токи от 500А до 6300А; - Гибкие медные шины типа GS на токи до 6300А;	ГОСТ Р 51321.2-2009 (МЭК 60439-2-2005)

Исполнитель (уполномоченное лицо) органа по сертификации: Л.В. Козичук (подпись, фамилия)

Эксперт (эксперт-аудитор) (эксперты (эксперты-аудиторы)): М.П. Башутина (подпись, фамилия)

ТАМОЖЕННЫЙ СОЮЗ

ПРИЛОЖЕНИЕ

К СЕРТИФИКАТУ СООТВЕТСТВИЯ № ТС RU C-RU.AB24.B.03231
Серия RU № 0216773

Перечень продукции, на которую распространяется действие сертификата соответствия

Код ТН ВЭД ТС	Наименование, типы, марки, модели однородной продукции, составные части изделия или комплекса	Обозначение документации, по которой выпускается продукция
8536 90 010 0	Устройства комплекты (шиннопровода) напряжением до 1000 В торговой марки «GERSAN»; модели: «GNL», «GL», «GGD», «GS-SUPER Compact», «GR» без соединителей и вместе с соединителями серий: «GDK», «GALFK», «GYDK», «GOR»: - Устройства ввода энергии типа GS: элементы трансформаторов, элементы трансформаторов с горизонтальным или вертикальным углом, элементы панели, элементы панели с горизонтальным или вертикальным углом, терминальный блок питания, промежуточный блок питания на токи до 6300А; - Устройства распределения энергии типа P и B (выходные коробки) на токи до 6300А; - Изделия крепежные для систем сборных шин (шиннопровода) типа GS; - Система сборных шин (шиннопровод) серии GR, на токи от 500А до 6300А; - Прямые элементы типа GR, длиной до 4000 мм из алюминия (медь) на токи от 500А до 6300А; - Горизонтальные и вертикальные угловые элементы, Т-образные, Z-образные элементы, элементы расширения, понижающие элементы, элементы подключения трансформатора типа GR до 5-ти проводников; - Комплекты однобортных соединений типа GR из алюминия (медь) на токи от 500А до 6300А; - Гибкие медные шины типа GR на токи до 6300А; - Устройства ввода энергии типа GR: элементы трансформаторов, элементы панели, элементы панели с горизонтальным или вертикальным углом, терминальный блок питания, промежуточный блок питания на токи до 6300А; - Устройство распределения энергии типа P и B (выходные коробки) на токи до 6300А; - Изделия крепежные для систем сборных шин (шиннопровода) типа GR.	ГОСТ Р 51321.2-2009 (МЭК 60439-2-2005)

Исполнитель (уполномоченное лицо) органа по сертификации: Л.В. Козичук (подпись, фамилия)

Эксперт (эксперт-аудитор) (эксперты (эксперты-аудиторы)): М.П. Башутина (подпись, фамилия)

TUV NORD

SERTİFİKA

ISO 9001 : 2015'e göre yönetim sistemi

TÜV NORD CERT prosedürleri uyarınca, işbu sertifika ile

Gersan Elektrik Tic. ve San. A.Ş.
İstanbul Anadolu Yakası O.S.B., Gazi Bulvarı, No 39, Tuzla,
TR-34953 İstanbul,
Türkiye

Ek'te veya Alt sertifika(lar)'da belirtilen lokasyonlar dahil

Ünvanlı kuruluşun, belirtilen standarda göre, aşağıdaki geçerlilik alanında bir yönetim sistemi uyguladığı belgelenmektedir.
Geçerlilik alanı:

Topraklama Malzemeleri Ve Paratoner Bağlantı Elemanları, Döşeme Altı Buatı, Askı Ve Gergi Akımları Üretim ve Satışı, G-CHARGE Elektrikli Araç Şarj İstasyonu, G-BUS Otomasyon Sistemi, GER-LED Sokak İçin Led Aydınlatma Armatürü Ve LED-BUS İç Ortam Led Aydınlatma Armatür Sistemleri Proje, Tasarım, Üretim Ve Satışı ve Busbar Kanallı Proje ve Tasarımı

Sertifika Tescil No 44 100 19530004
Tetiklik Raporu No. TR 1863

2019-02-07 tarihinden
2022-02-06 tarihine kadar geçerlidir
İlk sertifikasyon tarihi 2010

TÜV NORD CERT GmbH -
Sertifika Merkezi

İstanbul, 2019-02-07

İşbu sertifikasyon TÜV NORD CERT'in tetkik ve belgelendirme prosedürlerine göre gerçekleştirilmiştir ve düzenli aralıklarla yapılan gözlem tetkiklerine tabidir.

TÜV NORD CERT GmbH Langemarckstraße 20 45141 Essen www.tuev-nord-cert.com

IAF **DAkkS**
Deutsche
Akkreditierungsstelle
D-24612007-01-01

21678

TUV NORD

CERTIFICATE

Management system as per ISO 9001 : 2015

In accordance with TÜV NORD CERT procedures, it is hereby certified that

Gersan Elektrik Tic. ve San. A.Ş.
İstanbul Anadolu Yakası O.S.B., Gazi Bulvarı, No 39, Tuzla,
TR-34953 İstanbul,
Turkey

with the locations / sites according to the annex

applies a management system in line with the above standard for the following scope

Manufacture and Sales of Under Floor Junction Boxes, Earthing Materials and Lighting Rod, Tension and Suspension Materials, Design, Development, Manufacture and Sales G-CHARGE Electric Vehicle Charging Station, G-BUS Automation System, GER-LED Street Led Luminaries and LED-BUS Interior Led Luminaries Systems and Design and Development of Busbar Duct

Certificate Registration No. 44 100 19530004
Audit Report No. TR 1863

Valid from 2019-02-07
Valid until 2022-02-06
Initial certification 2010

Certification Body
at TÜV NORD CERT GmbH

İstanbul, 2019-02-07

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures and is subject to regular surveillance audits.

TÜV NORD CERT GmbH Langemarckstraße 20 45141 Essen www.tuev-nord-cert.com

IAF **DAkkS**
Deutsche
Akkreditierungsstelle
D-24612007-01-01

21677

TUV NORD

EK

Sertifika Tescil No 44 100 19530004
ISO 9001 : 2015

Gersan Elektrik Tic. ve San. A.Ş.
İstanbul Anadolu Yakası O.S.B., Gazi Bulvarı, No 39, Tuzla,
TR-34953 İstanbul,
Türkiye

Sertifika Tescil No	Adres	Kapsam
44 100 19530004-001	Çayyuma O.S.B., 1 Nolu OSB Meydanı, 1 Cadde, 6. ve 7. Sokak, Çayyuma, Zonguldak, Türkiye	Kablo Kanalı, Merdiveni Ve Aksesuarları, Döşeme Altı Kablo Kanalı, Buatı Ve Aksesuarları, Topraklama Malzemeleri Ve Paratoner Bağlantı Elemanları, Platform İzgaraları, Askı Ve Gergi Takımları, Busbar Kanalı İmalatı, Sıcak Daldırma Galvanizleme İşlemi, Elektrik Dağıtım Panoları, G-BUS Otomasyon Sistemi, G-CHARGE Elektrikli Araç Şarj İstasyonu, GER-LED Sokak İçin Led Aydınlatma Armatürü Ve LED-BUS İç Ortam Led Aydınlatma Armatür Sistemleri Üretimi

Liste sonu

2019-02-07 tarihinden
2022-02-06 tarihine kadar geçerlidir
İlk sertifikasyon tarihi 2010

TÜV NORD CERT GmbH -
Sertifika Merkezi

İstanbul, 2019-02-07

TÜV NORD CERT GmbH Langemarckstraße 20 45141 Essen www.tuev-nord-cert.com

IAF **DAkkS**
Deutsche
Akkreditierungsstelle
D-24612007-01-01

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21806

TUV NORD

ANNEX

to Certificate Registration No. 44 100 19530004
ISO 9001 : 2015

Gersan Elektrik Tic. ve San. A.Ş.
İstanbul Anadolu Yakası O.S.B., Gazi Bulvarı, No 39, Tuzla,
TR-34953 İstanbul,
Turkey

Certificate Registration No.	Location	Scope
44 100 19530004-001	Çayyuma O.S.B., 1 Nolu OSB Meydanı, 1 Cadde, 6. ve 7. Sokak, Çayyuma, Zonguldak, Turkey	Manufacture of Cable Trays, Ladders and Accessories, Under Floor Cable Tray, Junction Boxes and Accessories, Mounting Materials, Earthing Materials and Lighting Rod, Tension and Suspension Materials, Busbar Duct, Hot Dip Point Galvanization Implementation, Manufacture Of Electrical Panel Boards, G-BUS Automation System, G-CHARGE Electric Vehicle Charging Station, GER-LED Street Led Luminaries and LED-BUS Interior Led Luminaries Systems

End of the List

2019-02-07 tarihinden
2022-02-06 tarihine kadar geçerlidir
İlk sertifikasyon tarihi 2010

Certification Body
at TÜV NORD CERT GmbH

İstanbul, 2019-02-07

TÜV NORD CERT GmbH Langemarckstraße 20 45141 Essen www.tuev-nord-cert.com

IAF **DAkkS**
Deutsche
Akkreditierungsstelle
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TUV NORD

SERTİFİKA

ISO 14001 : 2015'e göre yönetim sistemi

TÜV NORD CERT prosedürleri uyarınca, işbu sertifika ile

Gersan Elektrik Tic. ve San. A.Ş.
İstanbul Anadolu Yakası O.S.B., Gazı Bulvarı, No 39, Tuzla,
TR-34953 İstanbul,
Türkiye

Ek'te veya Alt sertifikalar'da belirtilen lokasyonlar dahil

Ünvanlı kuruluşun, belirtilen standartlara göre, aşağıdaki geçerlilik alanında bir yönetim sistemi uyguladığı belgelenmektedir.
Geçerlilik alanı

Topraklama Malzemeleri Ve Paratoner Bağlantı Elemanları, Döşeme Altı Buatı, Askı Ve Gergi Akımları Üretim ve Satışı, G-CHARGE Elektrikli Araç Şarj İstasyonu, G-BUS Otomasyon Sistemi, GER-LED Sokak İçin Led Aydınlatma Armatürü Ve LED-BUS İç Ortam Led Aydınlatma Armatür Sistemleri Proje, Tasarım, Üretim Ve Satışı ve Busbar Kanalı Proje ve Tasarımı

Sertifika Tescil No 44 104 19530004
Telik Raporu No TR 1863

2019-02-07 tarihinden
2022-02-06 tarihine kadar geçerlidir
İlk sertifikasyon tarihi 2010

TÜV NORD CERT GmbH -
Sertifika Merkezi

İstanbul, 2019-02-07

İşbu sertifikasyon TÜV NORD CERT'in telik ve belgelendirme prosedürlerine göre gerçekleştirilmiştir ve düzenli aralıklarla yapılan gözetim tetkiklerine tabidir.

TÜV NORD CERT GmbH Langemarckstraße 20 45141 Essen www.tuev-nord-cert.com

IAF **DAKKS**
Deutsche
Akreditierungsstelle
D-ZM-12007-01-01

21602

TUV NORD

CERTIFICATE

Management system as per
ISO 14001 : 2015

In accordance with TÜV NORD CERT procedures, it is hereby certified that

Gersan Elektrik Tic. ve San. A.Ş.
İstanbul Anadolu Yakası O.S.B., Gazı Bulvarı, No 39, Tuzla,
TR-34953 İstanbul,
Turkey

with the locations / sites according to the annex

applies a management system in line with the above standard for the following scope

Manufacture and Sales of Under Floor Junction Boxes, Earthing Materials and Lighting Rod, Tension and Suspension Materials, Design, Development, Manufacture and Sales G-CHARGE Electric Vehicle Charging Station, G-BUS Automation System, GER-LED Street Led Luminaries and LED-BUS Interior Led Luminaries Systems and Design and Development of Busbar Duct

Certificate Registration No. 44 104 19530004
Audit Report No. TR 1863

Valid from 2019-02-07
Valid until 2022-02-06
Initial certification 2010

Certification Body
at TÜV NORD CERT GmbH

İstanbul, 2019-02-07

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures and is subject to regular surveillance audits.

TÜV NORD CERT GmbH Langemarckstraße 20 45141 Essen www.tuev-nord-cert.com

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Deutsche
Akreditierungsstelle
D-ZM-12007-01-01

21601

TUV NORD

EK

Sertifika Tescil No 44 104 19530004
ISO 14001 : 2015

Gersan Elektrik Tic. ve San. A.Ş.
İstanbul Anadolu Yakası O.S.B., Gazı Bulvarı, No 39, Tuzla,
TR-34953 İstanbul,
Türkiye

Sertifika Tescil No	Adres	Kapsam
44 104 19530004-001	Çayyurna O.S.B., 1 Nolu OSB Meydanı, 1 Cadde, 6. ve 7. Sokak, Çayyurna, Zonguldak, Türkiye	Kablo Kanalı, Merdiveni Ve Aksesuarları, Döşeme Altı Kablo Kanalı, Buatı Ve Aksesuarları, Topraklama Malzemeleri Ve Paratoner Bağlantı Elemanları, Platform Izgaraları, Askı Ve Gergi Takımları, Busbar Kanalı İmalatı, Sıcak Daldırma Galvanizleme İşlemi, Elektrik Dağıtım Panelleri, G-BUS Otomasyon Sistemi, G-CHARGE Elektrikli Araç Şarj İstasyonu, GER-LED Sokak İçin Led Aydınlatma Armatürü Ve LED-BUS İç Ortam Led Aydınlatma Armatür Sistemleri Üretimi

Liste sonu

2019-02-07 tarihinden
2022-02-06 tarihine kadar geçerlidir
İlk sertifikasyon tarihi 2010

TÜV NORD CERT GmbH -
Sertifika Merkezi

İstanbul, 2019-02-07

TÜV NORD CERT GmbH Langemarckstraße 20 45141 Essen www.tuev-nord-cert.com

IAF **DAKKS**
Deutsche
Akreditierungsstelle
D-ZM-12007-01-01

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21808

TUV NORD

ANNEX

to Certificate Registration No. 44 104 19530004
ISO 14001 : 2015

Gersan Elektrik Tic. ve San. A.Ş.
İstanbul Anadolu Yakası O.S.B., Gazı Bulvarı, No 39, Tuzla,
TR-34953 İstanbul,
Turkey

Certificate Registration No.	Location	Scope
44 104 19530004-001	Çayyurna O.S.B., 1 Nolu OSB Meydanı, 1 Cadde, 6. ve 7. Sokak, Çayyurna, Zonguldak, Turkey	Manufacture of Cable Trays, Ladders and Accessories, Under Floor Cable Tray, Junction Boxes and Accessories, Mounting Materials, Earthing Materials and Lighting Rod, Tension and Suspension Materials, Busbar Duct, Hot Dip Point Galvanization Implementation, Manufacture Of Electrical Panel Boards, G-BUS Automation System, G-CHARGE Electric Vehicle Charging Station, GER-LED Street Led Luminaries and LED-BUS Interior Led Luminaries Systems

End of the List

Valid from 2019-02-07
Valid until 2022-02-06
Initial certification 2010

Certification Body
at TÜV NORD CERT GmbH

İstanbul, 2019-02-07

TÜV NORD CERT GmbH Langemarckstraße 20 45141 Essen www.tuev-nord-cert.com

IAF **DAKKS**
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Akreditierungsstelle
D-ZM-12007-01-01

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TUV NORD

SERTİFİKA

ISO 45001 : 2018'e göre yönetim sistemi

TÜV NORD CERT prosedürleri uyarınca, işbu sertifika ile

Gersan Elektrik Tic. ve San. A.Ş.
İstanbul Anadolu Yakası O.S.B., Gazi Bulvarı, No 39, Tuzla, TR-34953 İstanbul, Türkiye

Ek'te veya Alt sertifika(lar)'da belirtilen lokasyonlar dahil

Ünvanı kuruluşun, belirtilen standarda göre, aşağıdaki geçerlik alanında bir yönetim sistemi uyguladığı belgelenmektedir.
Geçerlilik alanı

Topraklama Malzemeleri Ve Paratoner Bağlantı Elemanları, Döşeme Altı Buatı, Aski Ve Gergi Akımları Üretim ve Satışı, G-CHARGE Elektrikli Araç Şarj İstasyonu, G-BUS Otomasyon Sistemi, GER-LED Sokak İçin Led Aydınlatma Armatürü Ve LED-BUS İç Ortam Led Aydınlatma Armatürü, Slim Led Panel Aydınlatma Armatürü, UVC LED Aydınlatma Sistemleri Proje, Tasarım, Üretim Ve Satışı ve Busbar Kanalı Proje ve Tasarımı

Sertifika Tescil No 44 126 19530004
Teknik Raporu No TR 1863

2021-03-19 tarihinden
2022-02-06 tarihine kadar geçerlidir
İlk sertifikasyon tarihi 2010

TÜV NORD CERT GmbH -
Sertifika Merkezi

İstanbul, 2021-03-19

İşbu sertifikasyon TÜV NORD CERT'in teknik ve belgelendirme prosedürlerine göre gerçekleştirilmiştir ve düzenli aralıklarla yapılan gözetim tekliflerine tabidir.

TÜV NORD CERT GmbH Langemarkstraße 20 45141 Essen www.tuev-nord-cert.com

IAF **DAKKS**
Deutsche
Akreditierungsstelle
D-28115 Bielefeld

26104

TUV NORD

CERTIFICATE

Management system as per ISO 45001 : 2018

In accordance with TÜV NORD CERT procedures, it is hereby certified that

Gersan Elektrik Tic. ve San. A.Ş.
İstanbul Anadolu Yakası O.S.B., Gazi Bulvarı, No 39, Tuzla, TR-34953 İstanbul, Turkey

with the locations / sites according to the annex

applies a management system in line with the above standard for the following scope

Manufacture and Sales of Under Floor Junction Boxes, Earthing Materials and Lighting Rod, Tension and Suspension Materials, Design, Development, Manufacture and Sales G-CHARGE Electric Vehicle Charging Station, G-BUS Automation System, GER-LED Street Led Luminaires and LED-BUS Interior Led Luminaires Slim Led Panel Led Luminaires and UVC LED Luminaires Systems and Design and Development of Busbar Duct

Certificate Registration No. 44 126 19530004
Audit Report No. TR 1863

Valid from 2021-03-19
Valid until 2022-02-06
Initial certification 2010

Certification Body
at TÜV NORD CERT GmbH

İstanbul, 2021-03-19

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures and is subject to regular surveillance audits.

TÜV NORD CERT GmbH Langemarkstraße 20 45141 Essen www.tuev-nord-cert.com

IAF **DAKKS**
Deutsche
Akreditierungsstelle
D-28115 Bielefeld

26103

TUV NORD

EK

**Sertifika Tescil No 44 126 19530004
ISO 45001 : 2018**

Gersan Elektrik Tic. ve San. A.Ş.
İstanbul Anadolu Yakası O.S.B., Gazi Bulvarı, No 39, Tuzla, TR-34953 İstanbul, Türkiye

Sertifika Tescil No	Adres	Kapsam
44 126 19530004-001	Çayyuma O.S.B., 1 Nolu OSB Meydanı, 1 Cadde, 6. ve 7. Sokak, Çayyuma, Zonguldak, Türkiye	Kablo Kanalı, Merdivenli Ve Aksesuarları, Döşeme Altı Kablo Kanalı, Buatı Ve Aksesuarları, Topraklama Malzemeleri Ve Paratoner Bağlantı Elemanları, Plastik Form İzolatörleri, Aski Ve Gergi Takımları, Busbar Kanalı İzolatörleri, Sokak Daldırma Galvanizleme İşlemi, Elektrik Dağıtım Panoları, G-BUS Otomasyon Sistemi, G-CHARGE Elektrikli Araç Şarj İstasyonu, GER-LED Sokak İçin Led Aydınlatma Armatürü Ve LED-BUS İç Ortam Led Aydınlatma Armatürü ve Slim Led Panel Aydınlatma Armatürü ve UVC LED Aydınlatma Sistemleri Üretimi

İste sonu

2021-03-19 tarihinden
2022-02-06 tarihine kadar geçerlidir
İlk sertifikasyon tarihi 2010

İstanbul, 2021-03-19

TÜV NORD CERT GmbH -
Sertifika Merkezi

TÜV NORD CERT GmbH Langemarkstraße 20 45141 Essen www.tuev-nord-cert.com

IAF **DAKKS**
Deutsche
Akreditierungsstelle
D-28115 Bielefeld

1 Sayfa 1

26105

TUV NORD

ANNEX

**to Certificate Registration No. 44 126 19530004
ISO 45001 : 2018**

Gersan Elektrik Tic. ve San. A.Ş.
İstanbul Anadolu Yakası O.S.B., Gazi Bulvarı, No 39, Tuzla, TR-34953 İstanbul, Turkey

Certificate Registration No.	Location	Scope
44 126 19530004-001	Çayyuma O.S.B., 1 Nolu OSB Meydanı, 1 Cadde, 6. ve 7. Sokak, Çayyuma, Zonguldak, Turkey	Manufacture of Cable Trays, Ladders and Accessories, Under Floor Cable Tray, Junction Boxes and Accessories, Mounting Materials, Earthing Materials and Lighting Rod, Tension and Suspension Materials, Busbar Duct, Hot Dip Point Galvanization Implementation, Manufacture Of Electrical Panel Boards, G-BUS Automation System, G-CHARGE Electric Vehicle Charging Station, GER-LED Street Led Luminaires and LED-BUS Interior Led Luminaires and Slim Led Panel Led Luminaires and UVC LED Luminaires Systems

End of the List

Valid from 2021-03-19
Valid until 2022-02-06
Initial certification 2010

İstanbul, 2021-03-19

Certification Body
at TÜV NORD CERT GmbH

TÜV NORD CERT GmbH Langemarkstraße 20 45141 Essen www.tuev-nord-cert.com

IAF **DAKKS**
Deutsche
Akreditierungsstelle
D-28115 Bielefeld

Page 1 of 1

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LOVAG
Low Voltage Agreement Group

Page 1 / 13

Test Report No. 7273/VNL

Test Laboratory : VEIKI-VNL Electric Large Laboratories Ltd.
H-1158 Budapest, Vasgolyó u. 2-4
HUNGARY
Telephone: +36 141 73157
Fax: +36 141 73163
www.vnl.hu

Client : GERSAN ELEKTRIK Tic. ve San. A.S.
Anadolu Yakasi Organize Sanayi Bölgesi Gazi Bulvari
No:39-41 34953
Tuzla-Istanbul
TURKEY

Manufacturer : GERSAN ELEKTRIK Tic. ve San. A.S.
Anadolu Yakasi Organize Sanayi Bölgesi Gazi Bulvari
No:39-41 34953
Tuzla-Istanbul
TURKEY

Test object : Busbar Trunking System
Type designation : GS-A COMPACT 5000A
Date(s) of test(s) : 22.03.2013 - 10.04.2013
Date of receipt : 18.02.2013
Test specifications : IEC/EN 60439-2: Ed.3.0 (2000) + A1 (2005)
IEC 61439-6: Ed.1.0 (2012)

Test results : The tested busbar trunking system met the relevant requirements of the standard.
8.2.1 Verification of temperature-rise limits - PASSED
8.2.2 Verification of dielectric properties - PASSED
8.2.3 Verification of the electrical characteristics - PASSED

The Record of Proving Test consists of :
13 pages LOVAG test report forms - oscillograms
2 other pages - 4 drawings
- diagrams - photographs

Date of issue : 14.05.2013 Responsible Test Laboratory

Signatures:
/ Lajos Tóth / Responsible for the test
/ Norbert Menyhért / Supervised by
/ Tibor Tóth / Responsible observer
/ Dr. László Varga / Managing director

Note:
The test results relate only to the items tested.
The test report shall not be reproduced except in full without the written approval of the test laboratory.

TRF IEC/EN60439-2 Ed.3.1 form1

LOVAG
Low Voltage Agreement Group

Page 1 / 12

Test Report No. 7280/VNL

Test Laboratory : VEIKI-VNL Electric Large Laboratories Ltd.
H-1158 Budapest, Vasgolyó u. 2-4
HUNGARY
Telephone: +36 141 73157
Fax: +36 141 73163
www.vnl.hu

Client : GERSAN ELEKTRIK Tic. ve San. A.S.
Anadolu Yakasi Organize Sanayi Bölgesi Gazi Bulvari
No:39-41 34953
Tuzla-Istanbul
TURKEY

Manufacturer : GERSAN ELEKTRIK Tic. ve San. A.S.
Anadolu Yakasi Organize Sanayi Bölgesi Gazi Bulvari
No:39-41 34953
Tuzla-Istanbul
TURKEY

Test object : Busbar Trunking System
Type designation : GS-A COMPACT 1000A
Date(s) of test(s) : 28.04.2013
Date of receipt : 18.02.2013
Test specifications : IEC/EN 60439-2: Ed.3.0 (2000) + A1 (2005)
IEC 61439-6: Ed.1.0 (2012)

Test results : The tested busbar trunking system met the relevant requirements of the standard.
8.2.3 Verification of short-circuit strength - PASSED
8.2.4 Effectiveness of the protective circuit - PASSED

The Record of Proving Test consists of :
12 pages LOVAG test report forms - oscillograms
other pages - 2 drawings
- diagrams - photographs

Date of issue : 14.05.2013 Responsible Test Laboratory

Signatures:
/ Gábor Huszti / Responsible for the test
/ Norbert Menyhért / Supervised by
/ Tibor Tóth / Responsible observer
/ Dr. László Varga / Managing director

Note:
The test results relate only to the items tested.
The test report shall not be reproduced except in full without the written approval of the test laboratory.

TRF IEC/EN60439-2 Ed.3.1 form1

LOVAG
Low Voltage Agreement Group

Page 1 / 13

Test Report No. 7273/VNL

Test Laboratory : VEIKI-VNL Electric Large Laboratories Ltd.
H-1158 Budapest, Vasgolyó u. 2-4
HUNGARY
Telephone: +36 141 73157
Fax: +36 141 73163
www.vnl.hu

Client : GERSAN ELEKTRIK Tic. ve San. A.S.
Anadolu Yakasi Organize Sanayi Bölgesi Gazi Bulvari
No:39-41 34953
Tuzla-Istanbul
TURKEY

Manufacturer : GERSAN ELEKTRIK Tic. ve San. A.S.
Anadolu Yakasi Organize Sanayi Bölgesi Gazi Bulvari
No:39-41 34953
Tuzla-Istanbul
TURKEY

Test object : Busbar Trunking System
Type designation : GS-A COMPACT 5000A
Date(s) of test(s) : 22.03.2013 - 10.04.2013
Date of receipt : 18.02.2013
Test specifications : IEC/EN 60439-2: Ed.3.0 (2000) + A1 (2005)
IEC 61439-6: Ed.1.0 (2012)

Test results : The tested busbar trunking system met the relevant requirements of the standard.
8.2.1 Verification of temperature-rise limits - PASSED
8.2.2 Verification of dielectric properties - PASSED
8.2.3 Verification of the electrical characteristics - PASSED

The Record of Proving Test consists of :
13 pages LOVAG test report forms - oscillograms
2 other pages - 4 drawings
- diagrams - photographs

Date of issue : 14.05.2013 Responsible Test Laboratory

Signatures:
/ Lajos Tóth / Responsible for the test
/ Norbert Menyhért / Supervised by
/ Tibor Tóth / Responsible observer
/ Dr. László Varga / Managing director

Note:
The test results relate only to the items tested.
The test report shall not be reproduced except in full without the written approval of the test laboratory.

TRF IEC/EN60439-2 Ed.3.1 form1

LOVAG
Low Voltage Agreement Group

Page 1 / 13

Test Report No. 7422/VNL

Test Laboratory : VEIKI-VNL Electric Large Laboratories Ltd.
H-1158 Budapest, Vasgolyó u. 2-4
HUNGARY
Telephone: +36 141 73157
Fax: +36 141 73163
www.vnl.hu

Client : GERSAN ELEKTRIK Tic. ve San. A.S.
Anadolu Yakasi Organize Sanayi Bölgesi Gazi Bulvari
No:39-41 34953
Tuzla-Istanbul
TURKEY

Manufacturer : GERSAN ELEKTRIK Tic. ve San. A.S.
Anadolu Yakasi Organize Sanayi Bölgesi Gazi Bulvari
No:39-41 34953
Tuzla-Istanbul
TURKEY

Test object : Busbar Trunking System Tap-Off Unit
Type designation : GS COMPACT B5-MCCCB1000
Date(s) of test(s) : 30.07.2012
Date of receipt : 22.05.2012
Test specifications : IEC/EN 60439-2: Ed.3.0 (2000) + A1 (2005)

Test results : The tested tap-off box with built-in MCCB met the requirements of the relevant standard.
8.2.1 Verification of temperature-rise limits - PASSED
8.2.2 Dielectric properties - PASSED
8.2.6 Verification of mechanical operation - PASSED

The Record of Proving Test consists of :
13 pages LOVAG test report forms - oscillograms
2 other pages - 5 drawings
- diagrams - photographs

Date of issue : 14.05.2013 Responsible Test Laboratory

Signatures:
/ Lajos Tóth / Responsible for the test
/ Norbert Menyhért / Supervised by
/ Tibor Tóth / Responsible observer
/ Dr. László Varga / Managing director

Note:
The test results relate only to the items tested.
The test report shall not be reproduced except in full without the written approval of the test laboratory.

TRF IEC/EN60439-2 Ed.3.1 form1

LOVAG
Low Voltage Agreement Group

Page 1 / 9

Test Report No. 7282/VNL

Test Laboratory : VEIKI-VNL Electric Large Laboratories Ltd.
H-1158 Budapest, Vasgolyó u. 2-4
HUNGARY
Telephone: +36 141 73157
Fax: +36 141 73163
www.vnl.hu

Client : GERSAN ELEKTRIK Tic. ve San. A.S.
Anadolu Yakasi Organize Sanayi Bölgesi Gazi Bulvari
No:39-41 34953
Tuzla-Istanbul
TURKEY

Manufacturer : GERSAN ELEKTRIK Tic. ve San. A.S.
Anadolu Yakasi Organize Sanayi Bölgesi Gazi Bulvari
No:39-41 34953
Tuzla-Istanbul
TURKEY

Test object : Busbar Trunking System Tap-Off Unit
Type designation : GS COMPACT BA50-MCCCB1000
Date(s) of test(s) : 10.05.2013
Date of receipt : 18.02.2013
Test specifications : IEC/EN 60439-2: Ed.3.0 (2000) + A1 (2005)
IEC 61439-6: Ed.1.0 (2012)

Test results : The test object fulfilled the requirements of the relevant sub-clause of the standard.
8.2.4 Effectiveness of the protective circuit - PASSED

The Record of Proving Test consists of :
9 pages LOVAG test report forms - oscillograms
other pages - 4 drawings
- diagrams - photographs

Date of issue : 14.05.2013 Responsible Test Laboratory

Signatures:
/ Gábor Huszti / Responsible for the test
/ Norbert Menyhért / Supervised by
/ Tibor Tóth / Responsible observer
/ Dr. László Varga / Managing director

Note:
The test results relate only to the items tested.
The test report shall not be reproduced except in full without the written approval of the test laboratory.

TRF IEC/EN60439-2 Ed.3.1 form1

ASSOCIAZIONE PER LA CERTIFICAZIONE DELLE APPARECCHIATURE ELETTRICHE
Via Tito Livio, 5 - 24123 BERGAMO (Italy)
Tel. +39 035 437249 - e-mail: accredia@accredia.it

ACAE

Certificate of conformity n° A 15.018
page 1 of 3

Apparatus: Low-voltage busbar trunking system 1000V (U_N) - 2500A (I_N) - 30Hz (f) - 1000 V (U_L) - 8kV (U_W) - 180A, 1x (I_L) - 200A (I_W) - IP55
3 Aluminium Bars (2P+N+PE) and Aluminium Housing (E)

Designation: **GS-C Compact 500A**

Manufacturer: **GERSAN ELEKTRIK TIC. ve SAN. A. S.**
Anadoluh Yolu Organize Sanayi Bölgesi Gazlı Bulvarı No. 39-41 - P.K. 37
34953 TUZLA - İSTANBUL (Turkey)

Applicant: **GERSAN ELEKTRIK**

Tested by: **VEIKI-VNL - BUDAPEST (Hungary)**
IFE - BERLIN (Germany)
BST - HENNINGSDOERF (Germany)
MPA - DRESDEN (Germany)

The apparatus, constructed in accordance with the description mentioned in the documents listed on this Certificate has been subjected to the series of proving tests in accordance with IEC 60439-2 (2005-10).

The results of the tests carried out fulfil the requirements of the relevant parts of IEC 61439-4 (2012-05), according to sub. 10.1 of IEC 61439-1 (2009-01).

The results are shown in the attached documents according to ACACI procedures. The values obtained and the general performance are considered to comply with the above Standard(s) and to justify the characteristics assigned by the manufacturer as stated in the following.

Veronica
The General Secretary
Date: 2015.02.26

ACCREDIA
LOVAG

ASSOCIAZIONE PER LA CERTIFICAZIONE DELLE APPARECCHIATURE ELETTRICHE
Via Tito Livio, 5 - 24123 BERGAMO (Italy)
Tel. +39 035 437249 - e-mail: accredia@accredia.it

ACAE

Certificate of conformity n° A 15.019
page 1 of 3

Apparatus: Low-voltage busbar trunking system 1000V (U_N) - 1000A (I_N) - 50Hz (f) - 1000 V (U_L) - 8kV (U_W) - 180A, 1x (I_L) - 200A (I_W) - IP55
3 Copper Bars (2P+N+PE) and Aluminium Housing (E)

Designation: **GS-C Compact 500-630-900-1000A**

Manufacturer: **GERSAN ELEKTRIK TIC. ve SAN. A. S.**
Anadoluh Yolu Organize Sanayi Bölgesi Gazlı Bulvarı No. 39-41 - P.K. 37
34953 TUZLA - İSTANBUL (Turkey)

Applicant: **GERSAN ELEKTRIK**

Tested by: **VEIKI-VNL - BUDAPEST (Hungary)**
IFE - BERLIN (Germany)
BST - HENNINGSDOERF (Germany)
MPA - DRESDEN (Germany)

The apparatus, constructed in accordance with the description mentioned in the documents listed on this Certificate has been subjected to the series of proving tests in accordance with IEC 60439-2 (2005-10).

The results of the tests carried out fulfil the requirements of the relevant parts of IEC 61439-4 (2012-05), according to sub. 10.1 of IEC 61439-1 (2009-01).

The results are shown in the attached documents according to ACACI procedures. The values obtained and the general performance are considered to comply with the above Standard(s) and to justify the characteristics assigned by the manufacturer as stated in the following.

Veronica
The General Secretary
Date: 2015.02.26

ACCREDIA
LOVAG

ASSOCIAZIONE PER LA CERTIFICAZIONE DELLE APPARECCHIATURE ELETTRICHE
Via Tito Livio, 5 - 24123 BERGAMO (Italy)
Tel. +39 035 437249 - e-mail: accredia@accredia.it

ACAE

Certificate of conformity n° A 15.020
page 1 of 3

Apparatus: Low-voltage busbar trunking system 1000V (U_N) - 1250A (I_N) - 50Hz (f) - 1000 V (U_L) - 8kV (U_W) - 180A, 1x (I_L) - 200A (I_W) - IP55
3 Copper Bars (2P+N+PE) and Aluminium Housing (E)

Designation: **GS-C Compact 1250A**

Manufacturer: **GERSAN ELEKTRIK TIC. ve SAN. A. S.**
Anadoluh Yolu Organize Sanayi Bölgesi Gazlı Bulvarı No. 39-41 - P.K. 37
34953 TUZLA - İSTANBUL (Turkey)

Applicant: **GERSAN ELEKTRIK**

Tested by: **VEIKI-VNL - BUDAPEST (Hungary)**
IFE - BERLIN (Germany)
BST - HENNINGSDOERF (Germany)
MPA - DRESDEN (Germany)

The apparatus, constructed in accordance with the description mentioned in the documents listed on this Certificate has been subjected to the series of proving tests in accordance with IEC 60439-2 (2005-10).

The results of the tests carried out fulfil the requirements of the relevant parts of IEC 61439-4 (2012-05), according to sub. 10.1 of IEC 61439-1 (2009-01).

The results are shown in the attached documents according to ACACI procedures. The values obtained and the general performance are considered to comply with the above Standard(s) and to justify the characteristics assigned by the manufacturer as stated in the following.

Veronica
The General Secretary
Date: 2015.02.26

ACCREDIA
LOVAG

ASSOCIAZIONE PER LA CERTIFICAZIONE DELLE APPARECCHIATURE ELETTRICHE
Via Tito Livio, 5 - 24123 BERGAMO (Italy)
Tel. +39 035 437249 - e-mail: accredia@accredia.it

ACAE

Certificate of conformity n° A 15.021
page 1 of 3

Apparatus: Low-voltage busbar trunking system 1000V (U_N) - 1000A (I_N) - 50Hz (f) - 1000 V (U_L) - 8kV (U_W) - 180A, 1x (I_L) - 200A (I_W) - IP55
3 Copper Bars (2P+N+PE) and Aluminium Housing (E)

Designation: **GS-C Compact 1000A**

Manufacturer: **GERSAN ELEKTRIK TIC. ve SAN. A. S.**
Anadoluh Yolu Organize Sanayi Bölgesi Gazlı Bulvarı No. 39-41 - P.K. 37
34953 TUZLA - İSTANBUL (Turkey)

Applicant: **GERSAN ELEKTRIK**

Tested by: **VEIKI-VNL - BUDAPEST (Hungary)**
IFE - BERLIN (Germany)
BST - HENNINGSDOERF (Germany)
MPA - DRESDEN (Germany)

The apparatus, constructed in accordance with the description mentioned in the documents listed on this Certificate has been subjected to the series of proving tests in accordance with IEC 60439-2 (2005-10).

The results of the tests carried out fulfil the requirements of the relevant parts of IEC 61439-4 (2012-05), according to sub. 10.1 of IEC 61439-1 (2009-01).

The results are shown in the attached documents according to ACACI procedures. The values obtained and the general performance are considered to comply with the above Standard(s) and to justify the characteristics assigned by the manufacturer as stated in the following.

Veronica
The General Secretary
Date: 2015.02.26

ACCREDIA
LOVAG

ASSOCIAZIONE PER LA CERTIFICAZIONE DELLE APPARECCHIATURE ELETTRICHE
Via Tito Livio, 5 - 24123 BERGAMO (Italy)
Tel. +39 035 437249 - e-mail: accredia@accredia.it

ACAE

Certificate of conformity n° A 15.022
page 1 of 3

Apparatus: Low-voltage busbar trunking system 1000V (U_N) - 2000A (I_N) - 50Hz (f) - 1000 V (U_L) - 8kV (U_W) - 180A, 1x (I_L) - 200A (I_W) - IP55
3 Copper Bars (2P+N+PE) and Aluminium Housing (E)

Designation: **GS-C Compact 2000A**

Manufacturer: **GERSAN ELEKTRIK TIC. ve SAN. A. S.**
Anadoluh Yolu Organize Sanayi Bölgesi Gazlı Bulvarı No. 39-41 - P.K. 37
34953 TUZLA - İSTANBUL (Turkey)

Applicant: **GERSAN ELEKTRIK**

Tested by: **VEIKI-VNL - BUDAPEST (Hungary)**
IFE - BERLIN (Germany)
BST - HENNINGSDOERF (Germany)
MPA - DRESDEN (Germany)

The apparatus, constructed in accordance with the description mentioned in the documents listed on this Certificate has been subjected to the series of proving tests in accordance with IEC 60439-2 (2005-10).

The results of the tests carried out fulfil the requirements of the relevant parts of IEC 61439-4 (2012-05), according to sub. 10.1 of IEC 61439-1 (2009-01).

The results are shown in the attached documents according to ACACI procedures. The values obtained and the general performance are considered to comply with the above Standard(s) and to justify the characteristics assigned by the manufacturer as stated in the following.

Veronica
The General Secretary
Date: 2015.02.26

ACCREDIA
LOVAG

ASSOCIAZIONE PER LA CERTIFICAZIONE DELLE APPARECCHIATURE ELETTRICHE
Via Tito Livio, 5 - 24123 BERGAMO (Italy)
Tel. +39 035 437249 - e-mail: accredia@accredia.it

ACAE

Certificate of conformity n° A 15.017
page 1 of 3

Apparatus: Low-voltage busbar trunking system 1000V (U_N) - 1200A (I_N) - 50Hz (f) - 1000 V (U_L) - 8kV (U_W) - 180A, 1x (I_L) - 200A (I_W) - IP55
3 Aluminium Bars (2P+N+PE) and Aluminium Housing (E)

Designation: **GS-C Compact 1200A**

Manufacturer: **GERSAN ELEKTRIK TIC. ve SAN. A. S.**
Anadoluh Yolu Organize Sanayi Bölgesi Gazlı Bulvarı No. 39-41 - P.K. 37
34953 TUZLA - İSTANBUL (Turkey)

Applicant: **GERSAN ELEKTRIK**

Tested by: **VEIKI-VNL - BUDAPEST (Hungary)**
IFE - BERLIN (Germany)
BST - HENNINGSDOERF (Germany)
MPA - DRESDEN (Germany)

The apparatus, constructed in accordance with the description mentioned in the documents listed on this Certificate has been subjected to the series of proving tests in accordance with IEC 60439-2 (2005-10).

The results of the tests carried out fulfil the requirements of the relevant parts of IEC 61439-4 (2012-05), according to sub. 10.1 of IEC 61439-1 (2009-01).

The results are shown in the attached documents according to ACACI procedures. The values obtained and the general performance are considered to comply with the above Standard(s) and to justify the characteristics assigned by the manufacturer as stated in the following.

Veronica
The General Secretary
Date: 2015.02.26

ACCREDIA
LOVAG

ASSOCIAZIONE PER LA CERTIFICAZIONE DELLE APPARECCHIATURE ELETTRICHE
Via Tito Livio, 5 - 24123 BERGAMO (Italy)
Tel. +39 035 437249 - e-mail: accredia@accredia.it

ACAE

Certificate of conformity n° A 15.016
page 1 of 3

Apparatus: Low-voltage busbar trunking system 1000V (U_N) - 2500A (I_N) - 50Hz (f) - 1000 V (U_L) - 8kV (U_W) - 180A, 1x (I_L) - 200A (I_W) - IP55
3 Aluminium Bars (2P+N+PE) and Aluminium Housing (E)

Designation: **GS-A Compact 2500A**

Manufacturer: **GERSAN ELEKTRIK TIC. ve SAN. A. S.**
Anadoluh Yolu Organize Sanayi Bölgesi Gazlı Bulvarı No. 39-41 - P.K. 37
34953 TUZLA - İSTANBUL (Turkey)

Applicant: **GERSAN ELEKTRIK**

Tested by: **VEIKI-VNL - BUDAPEST (Hungary)**
IFE - BERLIN (Germany)
BST - HENNINGSDOERF (Germany)
MPA - DRESDEN (Germany)

The apparatus, constructed in accordance with the description mentioned in the documents listed on this Certificate has been subjected to the series of proving tests in accordance with IEC 60439-2 (2005-10).

The results of the tests carried out fulfil the requirements of the relevant parts of IEC 61439-4 (2012-05), according to sub. 10.1 of IEC 61439-1 (2009-01).

The results are shown in the attached documents according to ACACI procedures. The values obtained and the general performance are considered to comply with the above Standard(s) and to justify the characteristics assigned by the manufacturer as stated in the following.

Veronica
The General Secretary
Date: 2015.02.26

ACCREDIA
LOVAG

LOVAG
Low Voltage Agreement Group

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Test Report No. 6990/VNL

Test Laboratory: **VEIKI-VNL Electric Large Laboratories Ltd.**
H-1138 Budapest, Vagyolyó u. 2-4
HUNGARY
Telephone: +36 141 73157
Fax: +36 141 73163
www.vnl.hu

Client: **GERSAN ELEKTRIK TIC. ve SAN. A. S.**
Tuzla Memberler Organize Sanayi Bölgesi Gazlı Bulvarı
No:37-39-41 P.K. 37 34953
Tuzla-İstanbul
TURKEY

Manufacturer: **GERSAN ELEKTRIK TIC. ve SAN. A. S.**
Tuzla Memberler Organize Sanayi Bölgesi Gazlı Bulvarı
No:37-39-41 P.K. 37 34953
Tuzla-İstanbul
TURKEY

Test object: **Busbar Trunking System**
Type designation: **GS COMPACT GS-A/50-C**
Date(s) of test(s): **26.07.2012**
Date of receipt: **22.05.2012**
Test specifications: **IECEN 60439-2 Ed 3.0 (2005) + A1 (2006)**
IEC 61439-8 Ed 1.0 (2012)
IEC 60529-21:1989 + A1: 2008

Test results: **The tested busbar trunking system met the requirements of the relevant standard.**
Test under fire conditions - circuit integrity - PASSED

The Record of Proving Test consists of:
5 pages LOVAG test report forms - photocopies
- other pages - drawings
- diagrams - photographs

Date of issue: **04.10.2012** Responsible Test Laboratory

Signatures:
L. Lupaş Targu / *L. Lupaş Targu* / *L. Lupaş Targu* / *L. Lupaş Targu*
Responsible for the test / Supervisor by / Responsible observer / Managing director

Note:
The test results relate only to the items tested.
The test report shall not be reproduced or used without the written approval of the test laboratory.

IEC 61439-2 Ed 3.1 (2005)

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Low Voltage Agreement Group

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Test Report No. 6989/VNL

Test Laboratory: **VEIKI-VNL Electric Large Laboratories Ltd.**
H-1138 Budapest, Vagyolyó u. 2-4
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No:37-39-41 P.K. 37 34953
Tuzla-İstanbul
TURKEY

Manufacturer: **GERSAN ELEKTRIK TIC. ve SAN. A. S.**
Tuzla Memberler Organize Sanayi Bölgesi Gazlı Bulvarı
No:37-39-41 P.K. 37 34953
Tuzla-İstanbul
TURKEY

Test object: **Busbar Trunking System**
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Test specifications: **IECEN 60439-2 Ed 3.0 (2005) + A1 (2006)**
IEC 61439-8 Ed 1.0 (2012)
IEC 60529-21:1989 + A1: 2008

Test results: **The tested busbar trunking system met the requirements of the relevant standard.**
8.2.7 Verification of degree of protection - PASSED

The Record of Proving Test consists of:
5 pages LOVAG test report forms - photocopies
- other pages - drawings
- diagrams - photographs

Date of issue: **04.10.2012** Responsible Test Laboratory

Signatures:
L. Lupaş Targu / *L. Lupaş Targu* / *L. Lupaş Targu* / *L. Lupaş Targu*
Responsible for the test / Supervisor by / Responsible observer / Managing director

Note:
The test results relate only to the items tested.
The test report shall not be reproduced or used without the written approval of the test laboratory.

IEC 61439-2 Ed 3.1 (2005)



ISO 9001 / ISO 14001
ISO 45001



Company Profile

GERSAN a leading company in electrical industry manufactures that carry, combine and protect systems and materials conductive over the line from power plants to the sockets at houses.

Manufacture in this industry started in 1980 under the name Gersan Ticaret. From 1985 onwards, it went on business under the name GERSAN and had an experience spanning 44 years.

Our main fields of operations are: Manufacture of Busbar transmission and Distribution Systems, Cable support systems, Led lighting systems, Grounding and Lightning prevention systems, spark gap arresters, main and intermediate distribution plates, elevated type cable supports and bays, ventilation systems, support elements, various cable combinations, disconnect, connect and support elements, cable and pipe tagging systems, special conveyors that must be applied at any kind of projects, steel construction combination and fixation systems required for Building, Industrial plants, Car factories, Airports, Oil-Gas refineries, Malls, platform grills and fixation to concrete systems.

Since the very first day of starting production, GERSAN provides any kind of technical services and solutions to its customers at stages from production of items to their use with qualified technical and academic personnel. In this sense, GERSAN is a complete "R&D" and "Technology" company and provides its customers with the future's products.

Verification of temperature increase, electrical characteristics, structural strength, strength against crush, isolation strength against extraordinary temperatures, flame propagation strength, fire barrier, voltage decrease in system and EMC tests mentioned in IEC EN 61439/1 and 2 standards are executed by means of precision devices. Our items which hold international certificates such as GOST, IEC, BS, TSE, EN, ISO 9001, ISO 14001, ISO 18001 CE, AS-9100 are source of pride at projects realized at various countries such as Viet Nam, Chili, Argentina, Sri Lanka, Algeria, Russia Morocco, Turkic countries, Albania, Dubai and Qatar. Our quality policy is to offer quality items and services that would meet requirements of our customers for competitive prices, to make timely deliveries and to ensure continuance of service and quality. Our target is constantly producing high quality items. Our basic target is to be a world brand at our field of operation.

Our products are under patent. GERSAN A.Ş. is a 66% publicly held company quoted to BIST 100 (Istanbul Stock Exchange)



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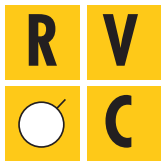
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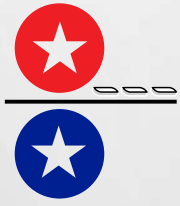
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References

-  gersanelektrik
-  gersanusa
-  gersan elektrik