

# GERSAN

ELEKTRİK TİC. ve SAN. A.Ş.



# BUSBAR SİSTEMLERİ

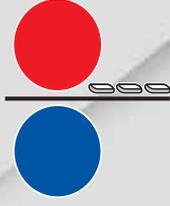
**BUSBAR TRUNKING SYSTEMS**



since  
1980



**25-40A**



**GERSAN**  
ELEKTRİK TİC. ve SAN. A.Ş.



**40-100A**



**100-400A**

## BUSBAR SİSTEMLERİ

Busbar Trunking Systems



**160-400A**



**500-1000A**



**400-6300A**



**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

GERSAN A.Ş. Firmasının ürettiği Busbar sistemlerinde teknoloji ve uluslararası standartlar ön planda bulundurulmuştur. Bu standart ve teknolojik üstünlükler Tuzla-İSTANBUL ve Çaycuma-ZONGULDAK Fabrikasında uygulanmaktadır.

*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*



Busbarlarda 2 yıl malzeme. 10 yıl yedek parça garantisi vardır.

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

Ürettiğimiz Busbar sistemleri aşağıda adı geçen uluslararası IEC/EN 60439-2. 61439-6. IEC/EN 60529. IEC 60331-21. DIN 4102-9/12 normlarına uygun görülmüştür.

*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 sistemi aşağıdaki tip testlerine(1) sahiptir.

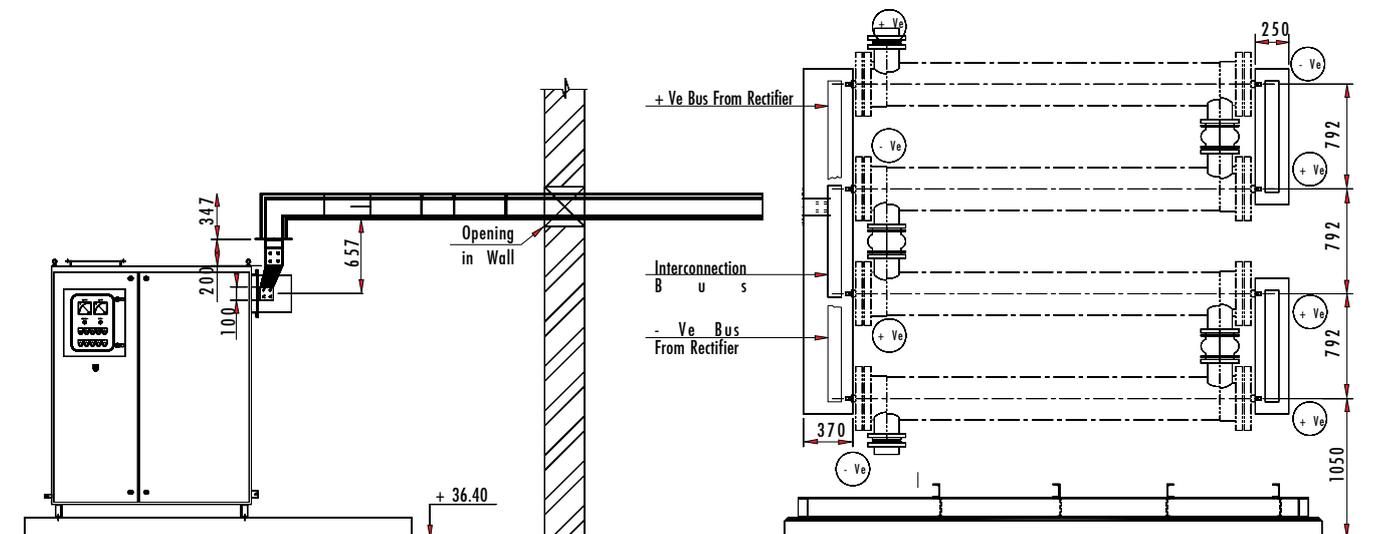
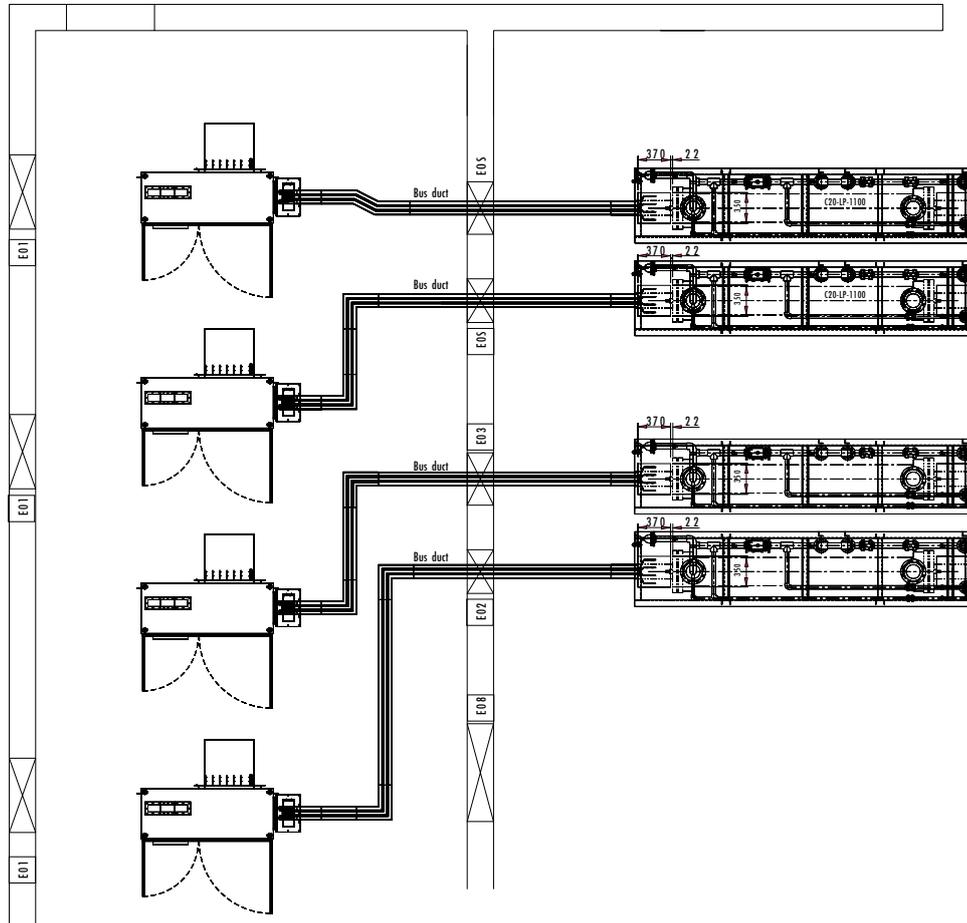
*GERSAN Busbar systems have type tests (1) listed below.*

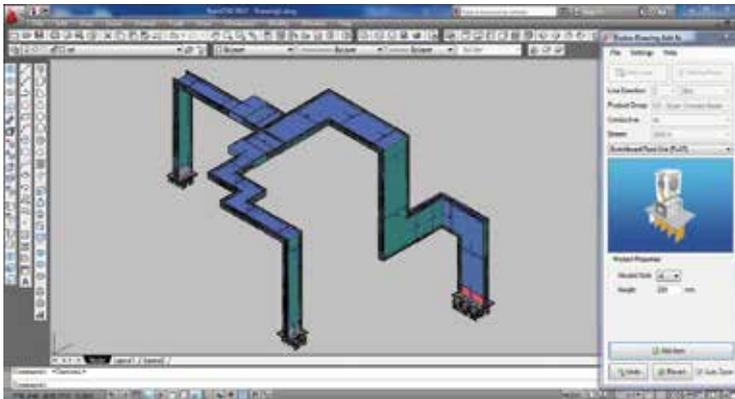
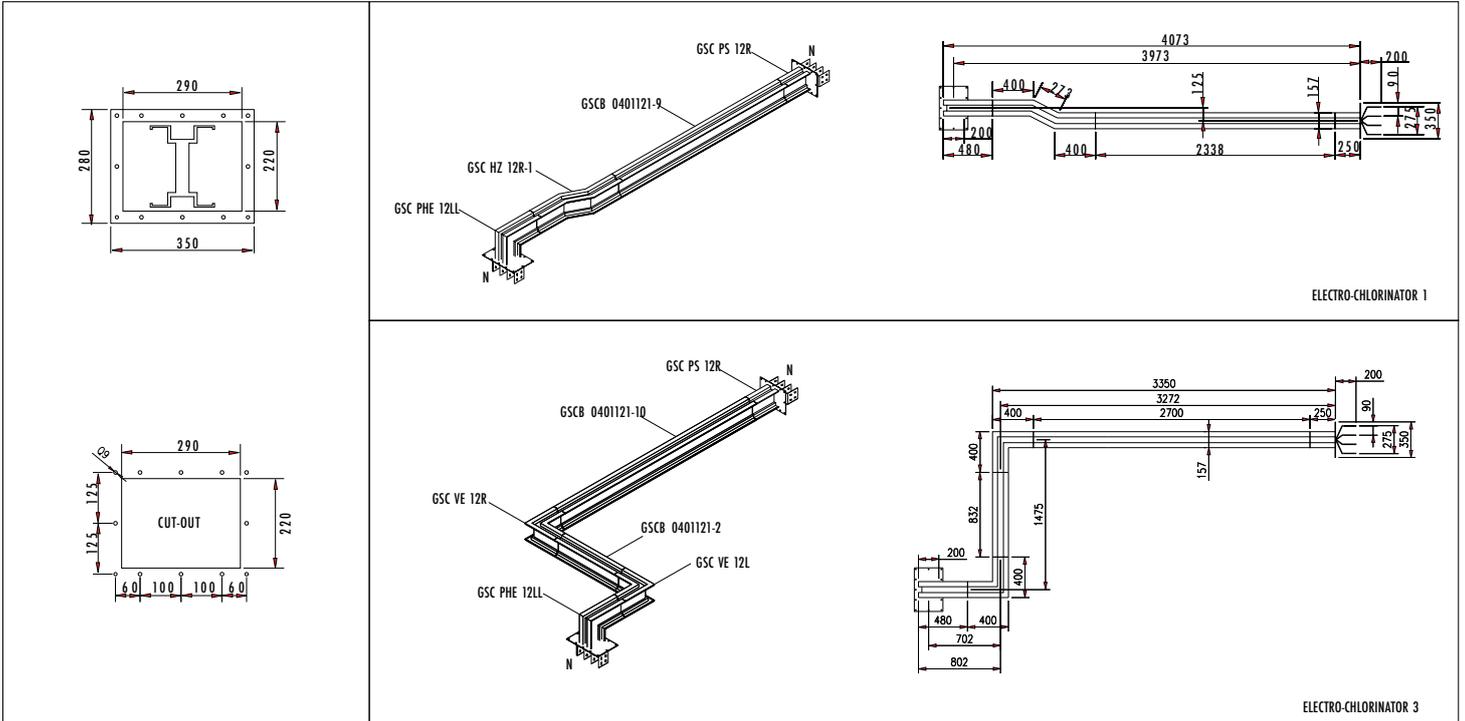
- \* Sıcaklık Artış Sınırları
- \* Dielektrik Özellikleri
- \* Kısa Devre Dayanımı
- \* Koruma Devreleri Etkinliği
- \* Yalıtım Aralıkları ve Yüzeysel Kaçak Yolu Uzunlukları
- \* Mekanik Çalışma
- \* Koruma Derecesi
- \* Elektriksel Karakteristikler
- \* Yapısal Dayanım
- \* Yalıtım Malzemeleri Direnci
- \* Alev Yayılımına Karşı Direnç
- \* Yangın Bariyeri
- \* GERSAN Busbar Sistemleri Faydalı Model Patenti ve Tasarım Tescili ile koruma altındadır.

- \* *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) IEC/EN 61439-6'e göre

*(1) According to IEC/EN 61439-6*





**GERSAN BUSBAR PROGRAMI**



A screenshot of a Microsoft Excel spreadsheet titled 'Gersan Busbar Kestimi.xls'. The spreadsheet contains a table with columns labeled A through H and rows numbered 1 through 22. The table lists various components and their specifications. The GERSAN logo is visible in the upper right corner of the spreadsheet area.

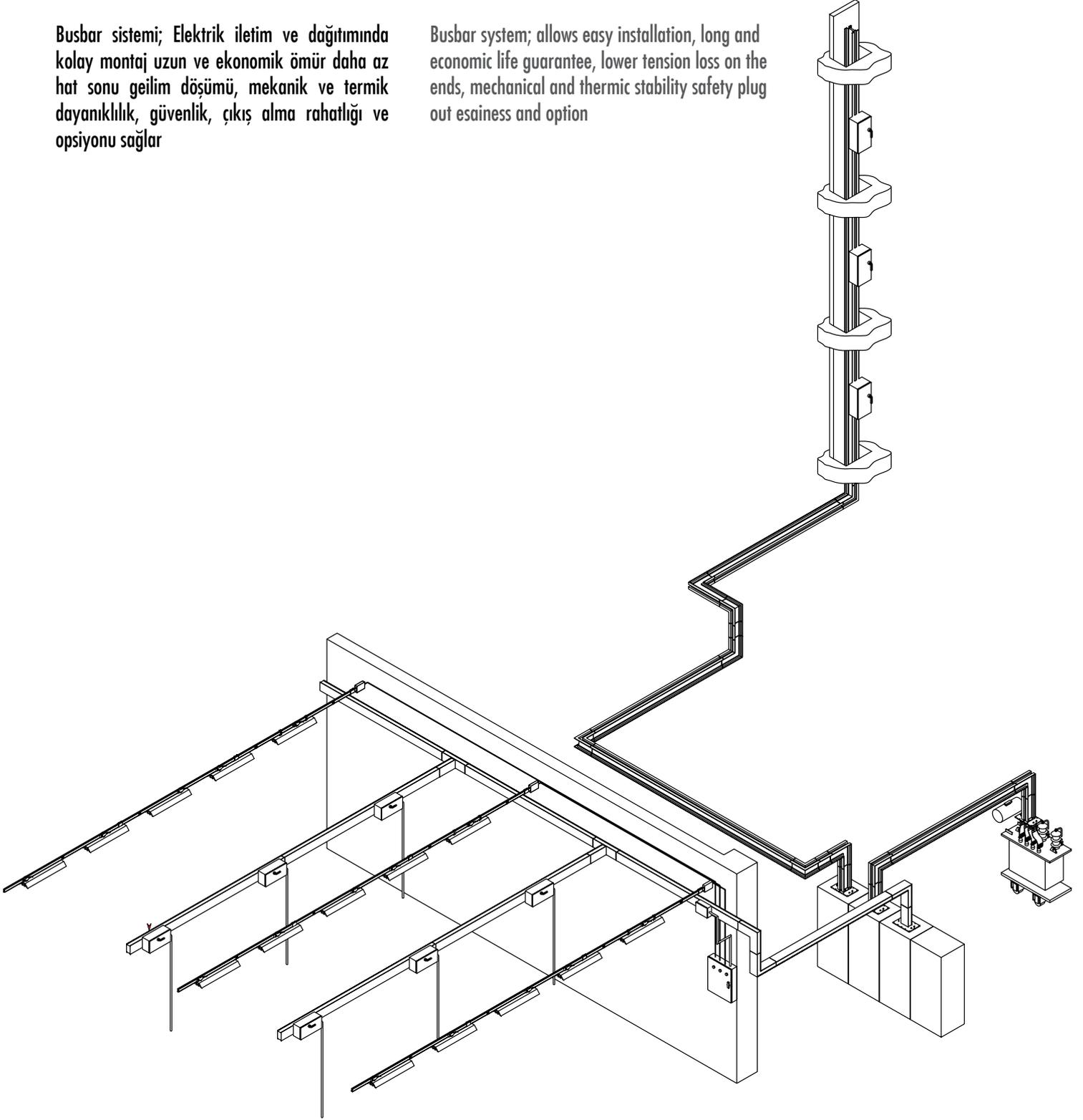
	A	B	C	D	E	F	G	H	I
1	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...

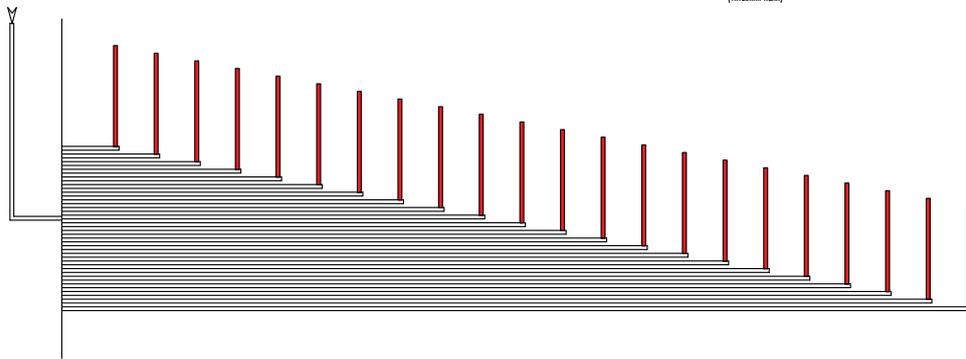
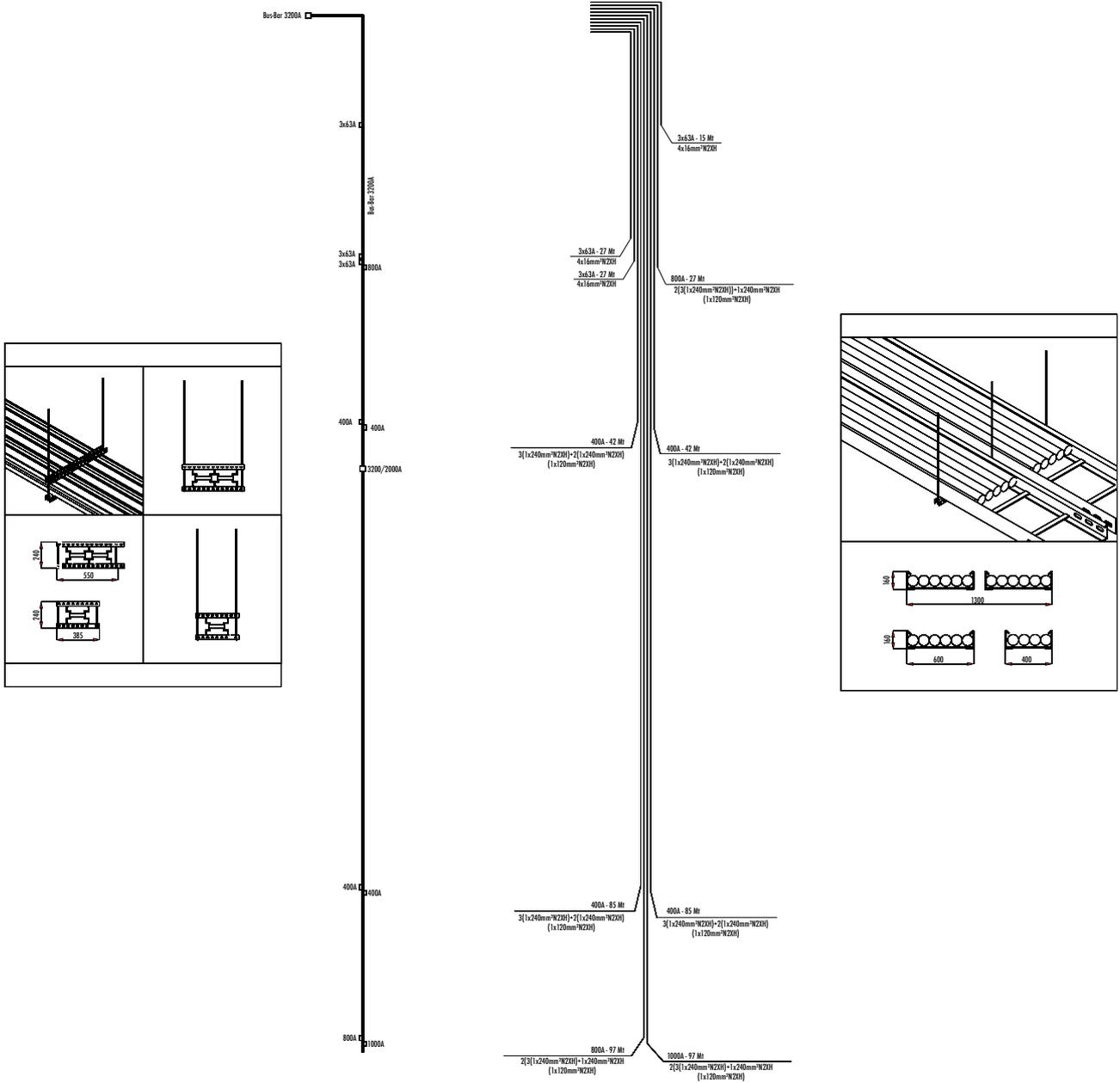
### BİR BİNADA YATAY VE DİKEY DAĞITIM

Horizontal and vertical distributions in a building.

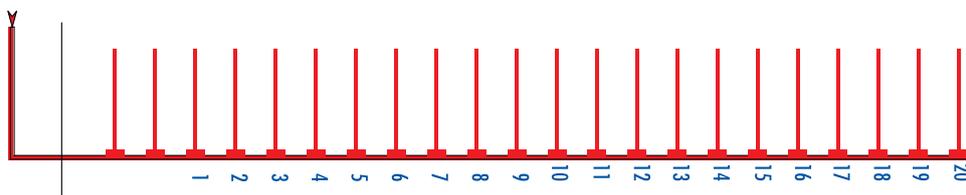
Busbar sistemi; Elektrik iletim ve dağıtımında kolay montaj uzun ve ekonomik ömür daha az hat sonu gerilim düşümü, mekanik ve termik dayanıklılık, güvenlik, çıkış alma rahatlığı ve opsiyonu sağlar

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



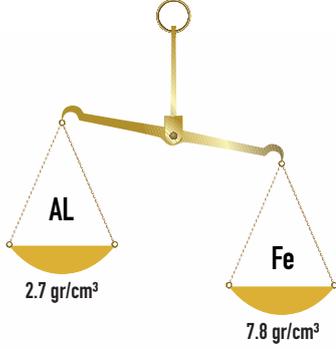


**KABLO İLE TESİSAT**  
Installation with Cables



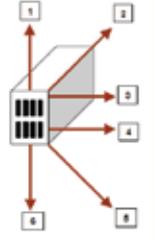
**KABLO İLE TESİSAT**  
Installation with Cables

Busbar sisteminin korozyondan etkilenmemesi için dış kasalar Alüminyum malzemelerden üretilmiştir.  
Busbarlar talep edildiği takdirde boyalı olarak imal edilebilir.  
The housings are manufactured by aluminium to avoid corrosion for busbar systems.  
Coloured busbars are manufactured due to request.



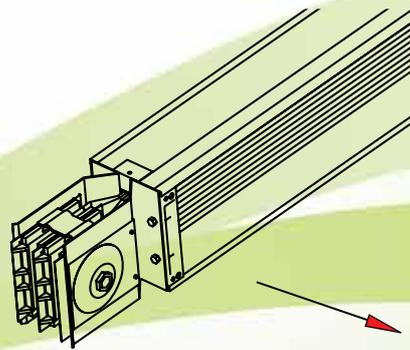
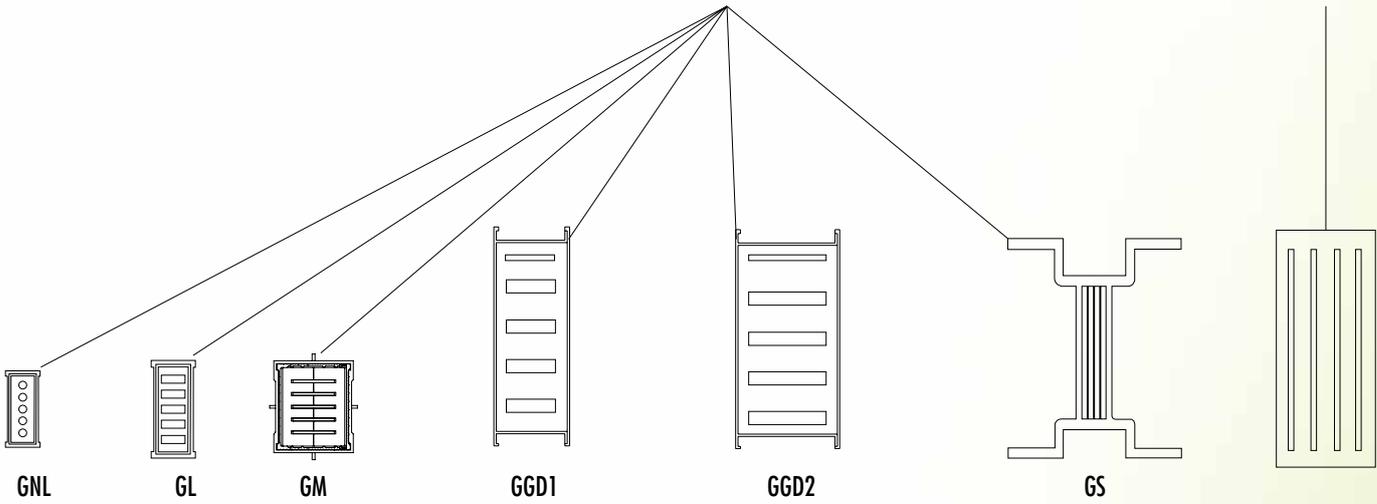
EMC (µT)

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



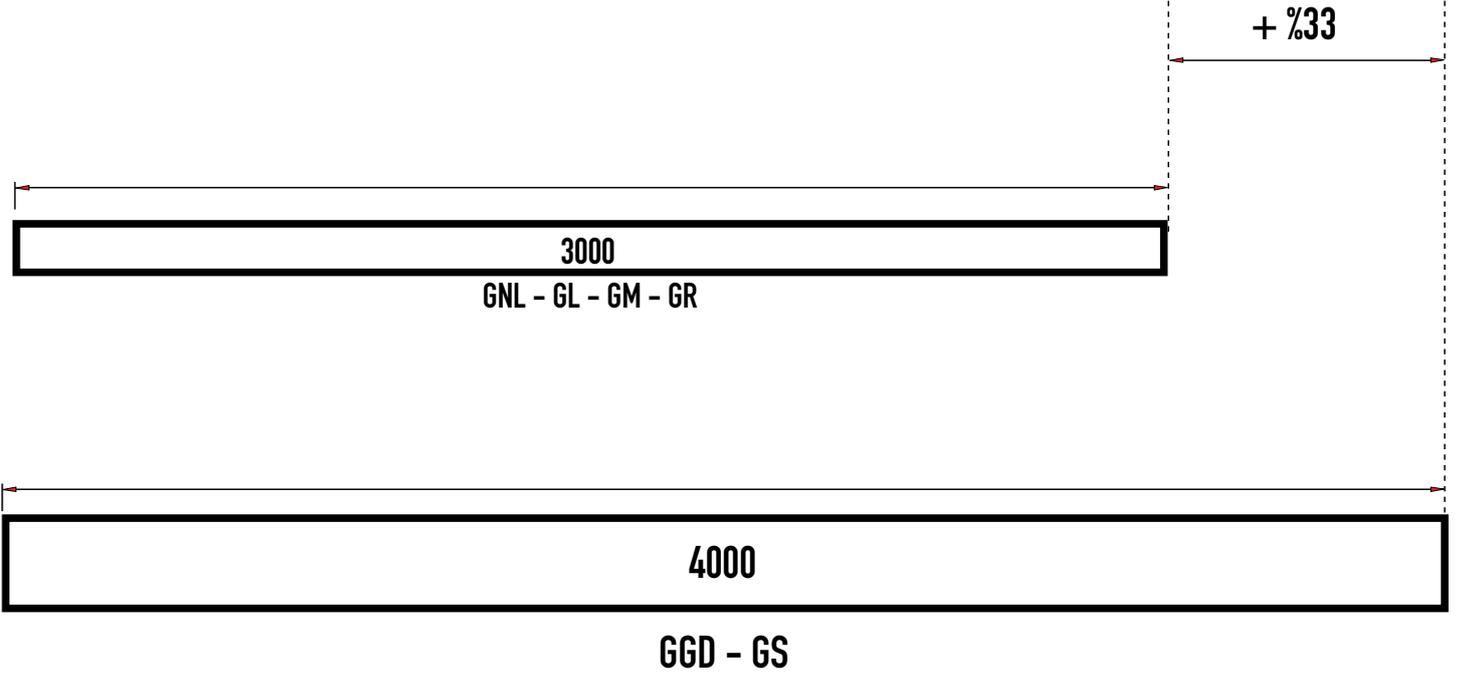
### AL (ALOCSAL-6063) IK08

### CAST RESIN IK10

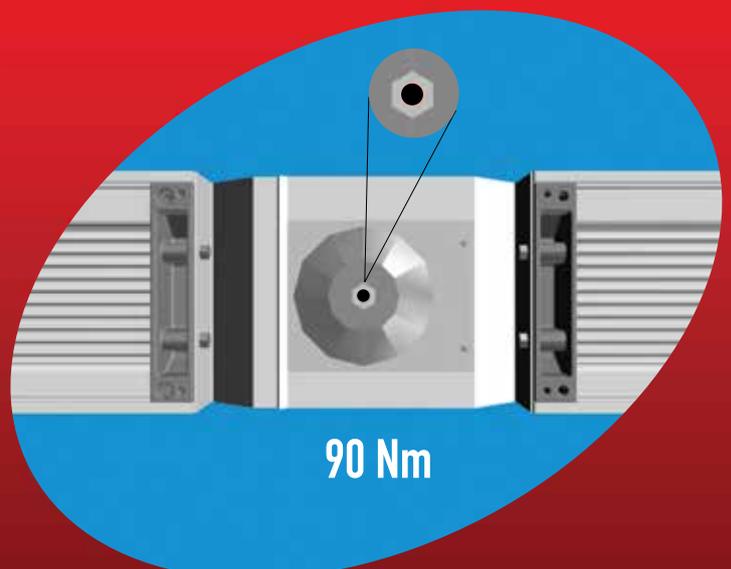
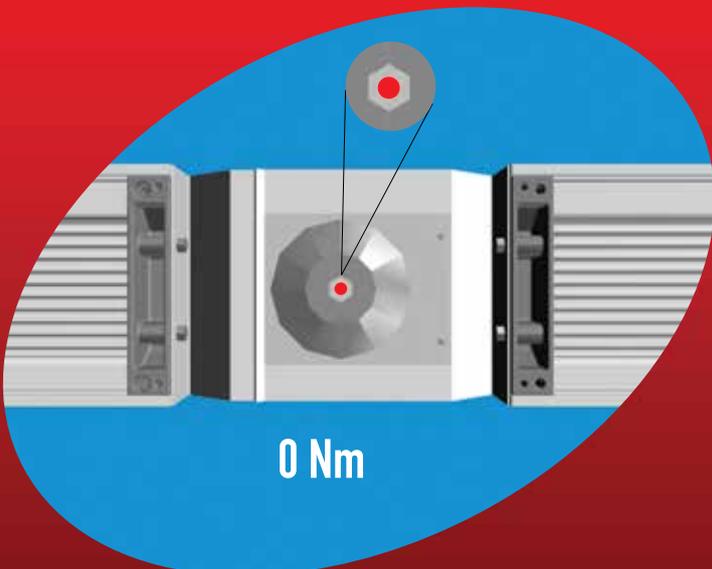


25-100 A Busbar sistemleri standart 3m. 160-1000A ve 400-6300A Busbar sistemleri standart 4m. boyunda üretilmektedir. Böylece yüksek akımlarda daha az ek olacağından geçiş dirençlerinde yaşanabilecek sorunlar engellenmiş olur.

*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.*



Ek noktasında opsiyonel akıllı cıvata uygulaması mevcuttur. 90Nm tork ile sıkıldığında kırmızı olan indikatör siyah renge dönecektir.  
*There is an optional Smart Bolt application on joint . When the Smart Bolt is tightened with 90 Nm. red indicator is become black.*

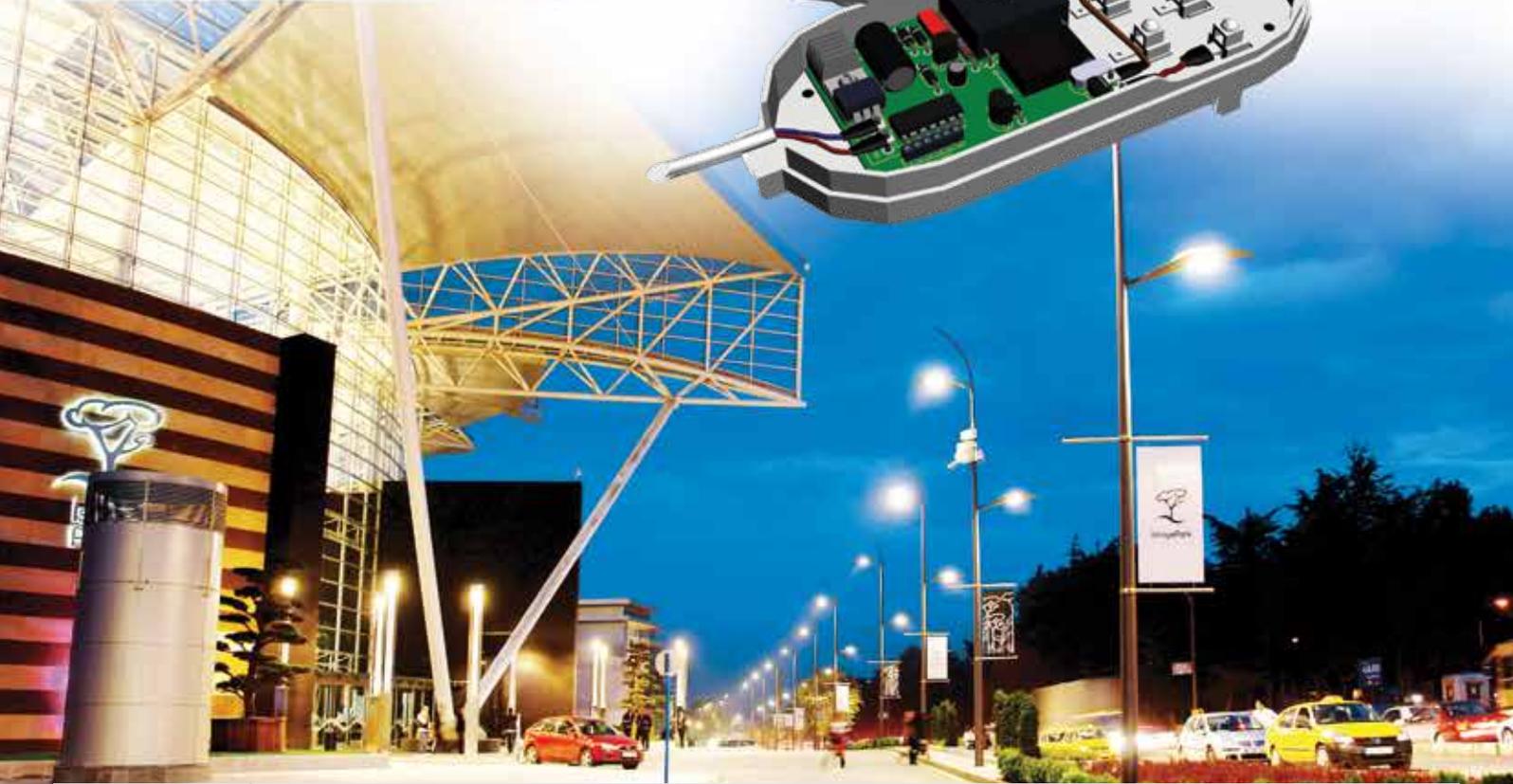


ÜRÜNÜN  
PATENTİ  
GERSAN A.Ş.'e  
AİTTİR.

2. Veri Elektrik hatına bir verici aracılığı ile iletilir.  
2. Data is transferred to line by a transmitter.

1. Kontrol edilecek ünite ve gerçekleştirilecek işlem bilgisayar ürüyüz programıyla seçilir.  
1. Requested unit and process is selected from PC Program.

3. Hatta bağlı bulunan yük fişleri gelen veriyi analiz eder. Alıcı adresi eşleşen ilgili yük veya yük grupları istenen işlemi gerçekleştirir. Kontrol ünitesine geri besleme cevabı gönderilir.  
3. Sockets analyze the data. Related loads proceed the request. Feedback is send to control unit.



Enerji hatları üzerinden çift yönlü haberleşme ile elektrik dağıtım ekipmanlarımız trafo, pano, busbar, çıkış kutuları üzerindeki ölçüm cihazlarından durum bilgisi, ölçüm değerleri gibi tüm ulaşılabilir bilgilere ulaşmamızı ve kontrol edilebilmemizi sağlayan çok basit ve patentli bir çözümdür.

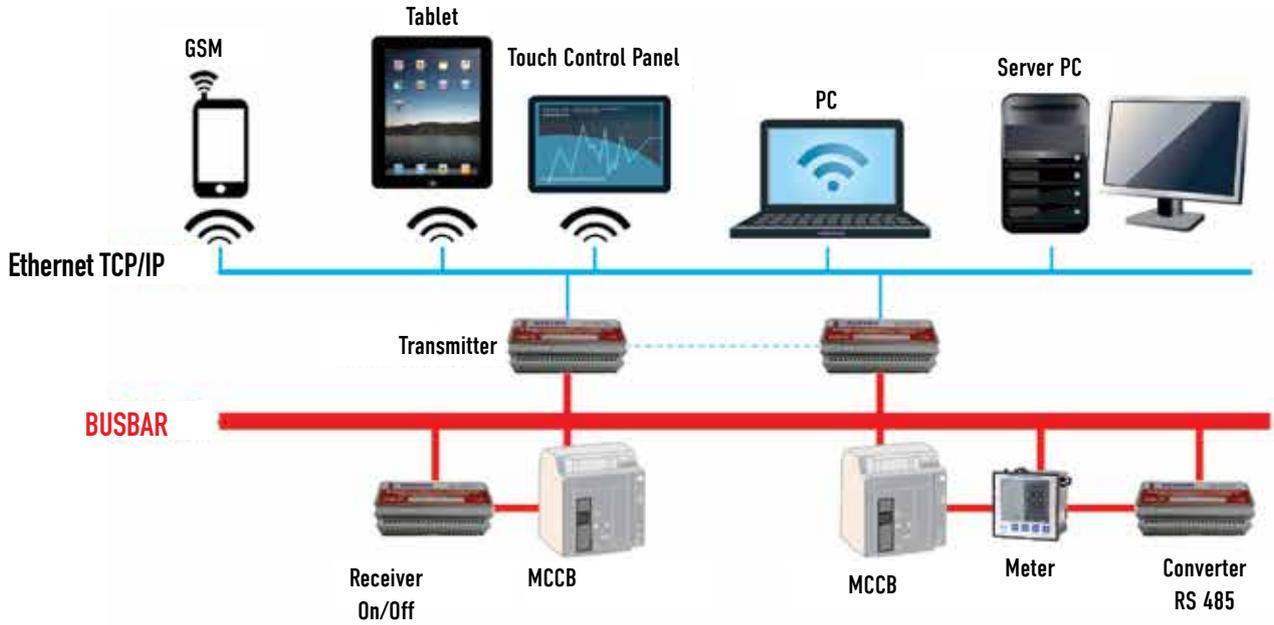
*It is a very simple and patented solution to reach and manage all available information by two-way communication provided such as status and records of measurement devices on electricity distribution substation equipments, transformers, board, busbars, tap-off boxes of power lines.*

G-Bus yazılımı yüklenmiş ve local yada internet ağına bağlı herhangi bir PC' den ilgili bilgi ve kontrollere erişim sağlanabilir.

- G-Bus otomasyon ile işletmenizde;
- \* İşletme maliyetinin düşürülmesi,
- \* Ekipman kullanımlarında verimli olunması
- \* Elektrik güç dağılımının yönetilmesi

*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.



- \* Tüm binalarda ve tesislerde, kontrol izleme ve otomasyon gereksinimi artmaktadır.
- Ulusal enerji politikaları,
- Üretim ve işletme maliyetleri konularında değerlendirme yapma imkanı

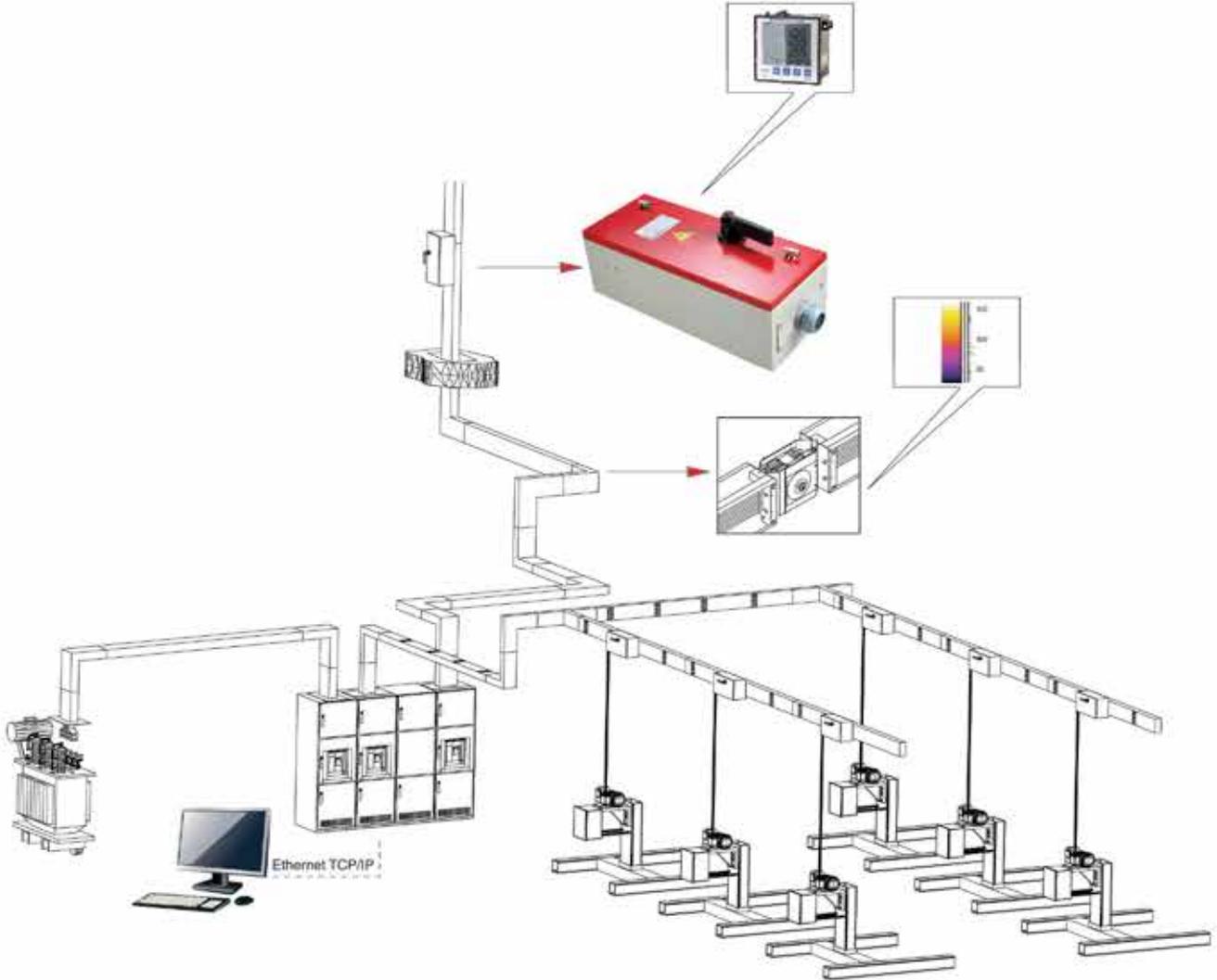
*It is a very simple and patented solution to reach and manage all available information by two-way communication provided such as status and records of measurement devices on electricity distribution substation equipments, transformers, board, busbars, tap-off boxes of power lines.*

- \* Kullanıcı tarafından yönetilebilen enerji hattı ile
- Alan tanımlamaları ile sınıflandırma
- Gereksiz kullanımları engelleme
- Enerji verimliliği ve güç tüketiminin kontrol altına alınmasını sağlamaktadır.

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

GERSAN Akıllı Busbar sistemiyle tüm Bus-bar sistemlerinde GNL, GL, GGD ve GS ile 25-6300A arasında monte edilecek verici ve alıcı ünitelerle ölçüm ve kontrol, izleme yapılabilmektedir. İlgili üniteler çıkış kutularına kolayca monte edilebilecek şekilde ve DIN Ray standartlarındaki yapıyla G-Bus sinyalleri olarak analizör ölçümleri, şalter kontrolleri v.b. çift yönlü bilgi ve komutları işleyebilirler.

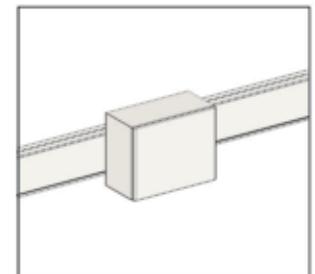
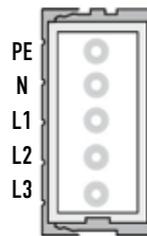
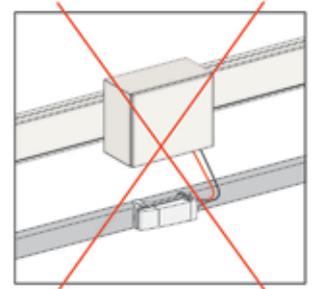
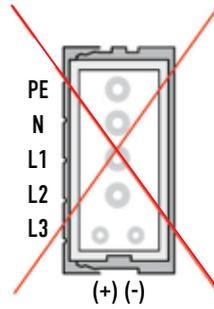
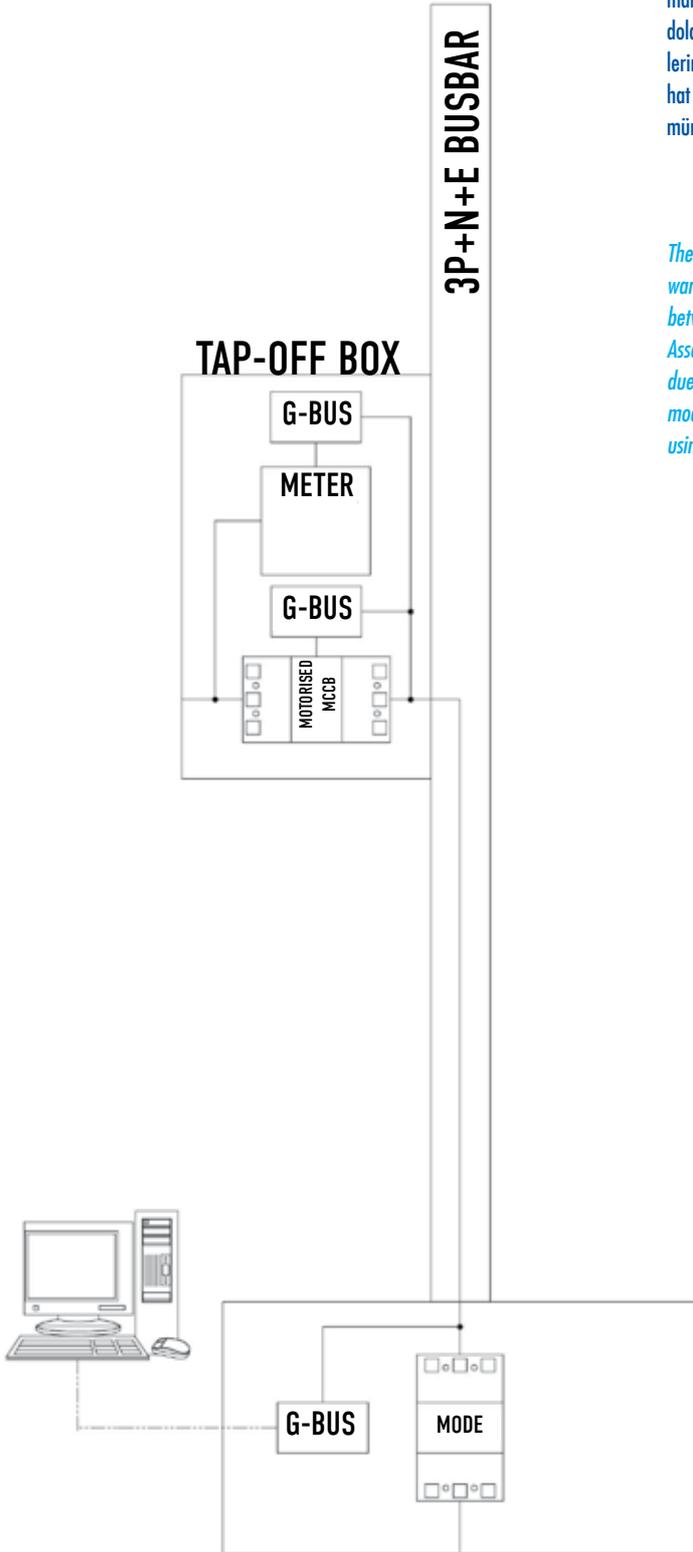
*Measurement, control and monitoring by GERSAN Smart Bus-bar systems can be done with mounted units between the transmitter and receiver for 25-6300A busbar system GNL, GL, GGD and GS. Receiver units with standard DIN rail structure can be easily installed on tap-off boxes and capable of handling two-way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



Busbar hatlarının tek yada çok kollu olması halinde alıcı ister ana panoyu isterse tüm dağıtım çıkış kutularını bünyesine bulundurabilir.  
Receiver units can be found at the main board or the entire output boxes in case of single or multiple lines busbar.

Bu üniteler, enerji hatları üzerinden haberleşerek ve başka hiçbir ilave network hattı kullanmadan G-Bus Server yazılımı ile irtibatlandırılmıştır. G-Bus verici ünitesi, enerji hattıyla network arasındaki bağlantıyı ve izolasyonu sağlayarak server programıyla iletişimi sağlamaktadır. Güç izleme Analizör ünitesinin çıkış kutusuna montajlanması halinde yükseklikten dolayı okuma yapılması bir hayli zordur. Bu nedenle G-BUS receiver modüllü analizör sistemlerinin kullanılması tavsiye ediyoruz. Böylece geleneksel sistemlerdeki gibi ilave hiç bir paralel hat kullanmadan çıkış kutusundaki dataları enerji hattı üzerinden server merkezine iletmek mümkün olmaktadır.

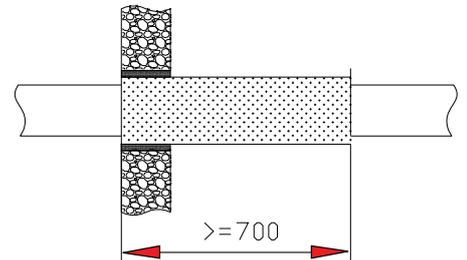
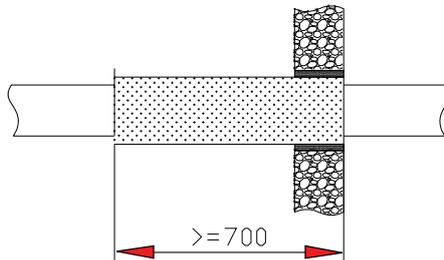
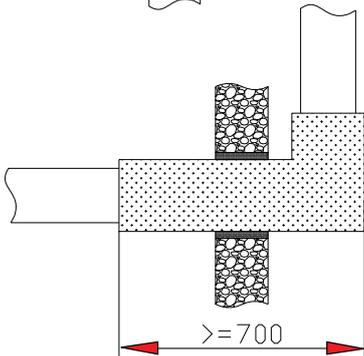
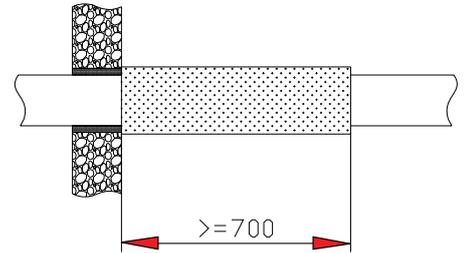
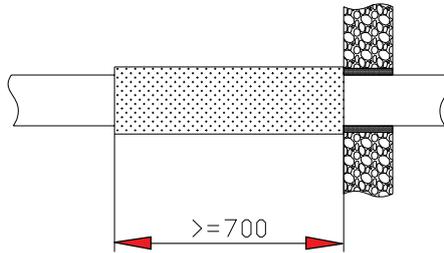
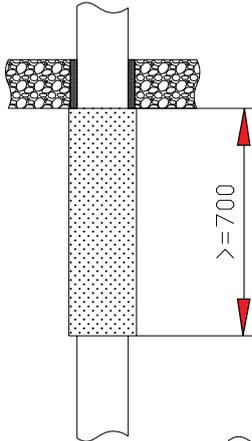
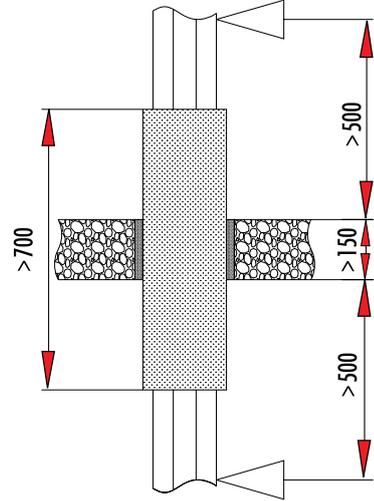
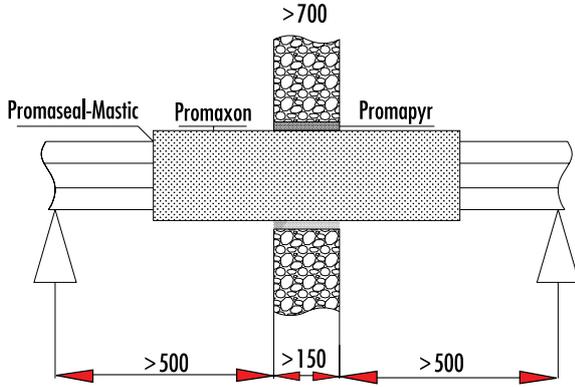
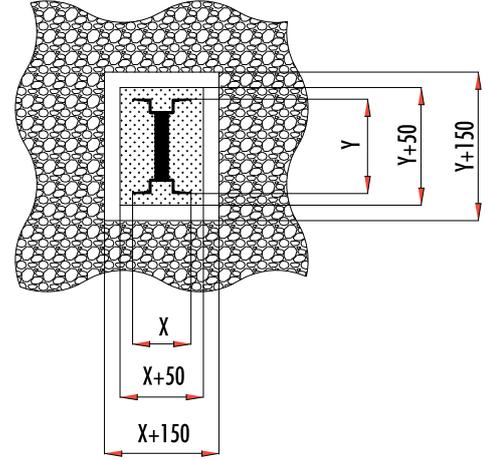
*These units are communicating over power lines and contact with the G-Bus server software without any additional network line G-Bus Transmitter unit that enables the isolation between power line and network connection and allows you to connect server program. Assembly of power monitoring analyzer unit 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

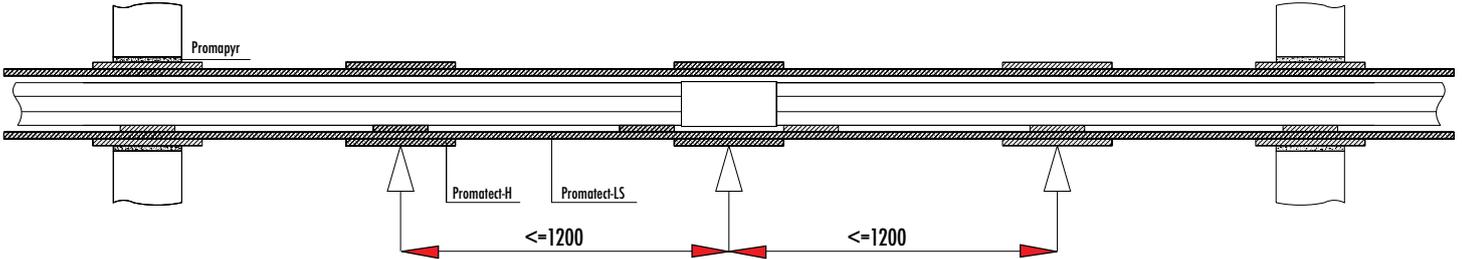
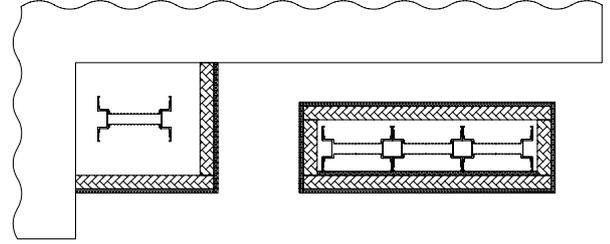
## YANGIN DAYANIM ÖZELLİKLERİ *Fire Resistance Properties*

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



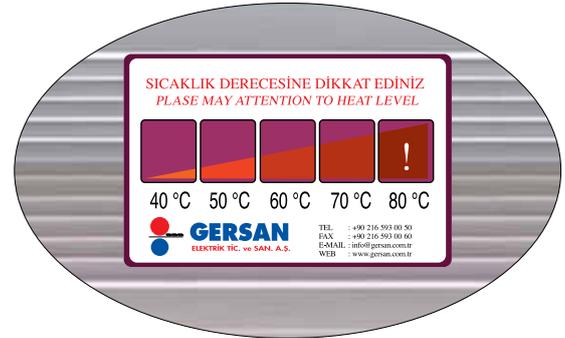
YANGIN DAYANIM ÖZELLİKLERİ *Fire Resistance Properties*

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.

## Opsiyonel / Optional

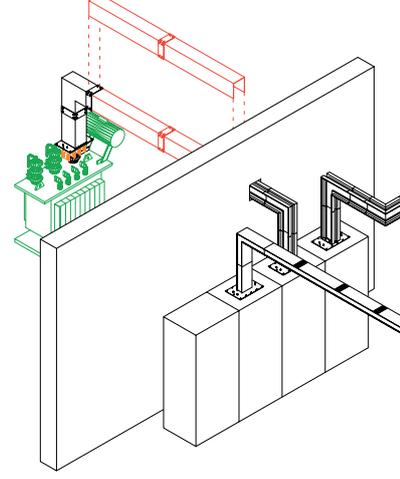
24 saat ortalamasına göre ortam sıcaklığında akım taşıma katsayısı Schedule of ratings for the ambient temperature on average 24 h				
	30 (°C)	40 (°C)	50 (°C)	60 (°C)
K	1,20	1,10	1,0	0,9

İZOLASYON SINIFLARI VDE 0530  
Insulation Classes VDE 0530

Sınıf Class	Kabul edilebilir max. nominal yükteki durum sıcaklığı Acceptable maximum temperature of rated load	Kabul edilebilir max. aşırı sıcaklık ortalaması / Acceptable maximum average temperature	
		Nominal Yük / Rated Load	Kısa Devre / Short Circuit
E	120 °C	75 °C	135 °C
B	130 °C	80 °C	145 °C
F	155 °C	100 °C	170 °C
H	180 °C	135 °C	200 °C

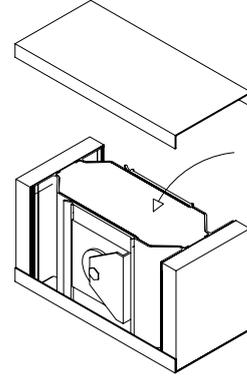
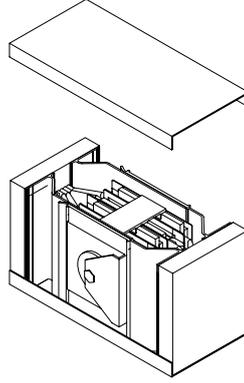
### IP KORUMA SINIFLARI IEC/EN 60529 IP Protection Classes IEC/EN 60529

Dış ortam kullanımı için tüm IP uygulamalarında gövde üzerine canopy uygulaması şarttır.  
Canopy on enclosure is a must of all IP applications for outdoor installations.



### KORUMA SINIFLARI IEC/EN 60529 IP Protection Classes IEC/EN 60529

Birinci Rakam First Digit	Tanım Definition	Açıklama	Description
0	Koruma yok No protection	Gerilim altında bulunan veya hareket eden bölümlere personelin tesadüfen dokunmasına karşı hiç bir koruma yok. Elektrik ekipmanlarının yabancı madde girmesine karşı hiç bir koruma yok	There is no protection against contact and foreign bodies
1	$\geq 50$ mm olan yabancı maddelere karşı koruma Protection against particulate, 50 mm and larger	Gerilim altında bulunan veya hareket eden bölümlere personelin tesadüfen büyük alanda dokunmasına karşı örneğin elle dokunmaya karşı koruma mevcut, ancak bilinci olarak bu bölümlere ulaşmaya karşı koruma yok. Çapı 50 mm ve daha büyük olan katı yabancı cisimlerin girmesine karşı koruma.	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	$\geq 12,5$ mm olan yabancı maddelere karşı koruma Protection against particulate, 12.5 mm and larger	Gerilim altında bulunan veya hareket eden bölümlere personelin parmakla dokunmasına karşı koruma mevcut. Çapı 12,5 mm ve daha büyük olan katı yabancı cisimlerin girmesine karşı koruma.	There is a protection against contact with a finger. There is a protection against objects, greater than or equal to 12.5 mm.
3	$\geq 2,5$ mm olan yabancı maddelere karşı koruma Protection against particulate, 2.5 mm and larger	Gerilim altında bulunan veya hareket eden bölümlere 2,5 mm'den daha kalın alet, tel veya benzeri cisimlerle dokunmaya karşı koruma mevcut. Çapı 2,5 mm ve daha büyük olan katı yabancı cisimlerin girmesine karşı koruma.	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	$\geq 1$ mm olan yabancı maddelere karşı koruma Protection against particulate, 1.0 mm and larger	Gerilim altında bulunan veya hareket eden bölümlere 1 mm'den daha kalın alet, tel veya benzeri cisimlerle dokunmaya karşı koruma mevcut. Çapı 1 mm ve daha büyük olan katı yabancı cisimlerin girmesine karşı koruma.	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	Toz toplanmasına karşı koruma Protected against dust	Gerilim altında bulunan veya hareket eden bölümlere dokunmaya karşı belirli bir koruma. Zararlı olabilecek toz toplanmasına karşı tam koruma. Toz girmesine karşı belirli bir koruma yok, fakat tozların cihazların işlevini aksatacak veya güvenilirliğini tehlikeye sokacak miktarda girmesi önlenmiştir.	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	Toz girmesine karşı koruma, toz sızdırmaz Dust proof	Gerilim altında bulunan veya hareket eden bölümlere dokunmaya karşı tam koruma. Toz girmesine karşı koruma.	There is a complete protection against contact. There is a protection against dust

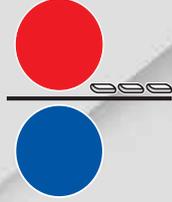


### KORUMA SINIFLARI IEC/EN 60529 IP Protection Classes IEC/EN 60529

Birinci Rakam First Digit	Tanım Definition	Açıklama	Description
0	Koruma yok No protection	Belirli bir koruma yok.	There is no protection against water.
1	Düşey olarak yağan suya karşı koruma Protected against dripping water	Düşey olarak düşen su damlalarının hasara neden olmaması gerekir.	Vertically dripping water must not have any damaging effect
2	Mahfazaya 15° eğimle damlayan suya karşı koruma Protected against dripping water with 15°	Her iki tarafından 15°'lik bir açı ile eğim verilmiş bir mahfazaya düşey olarak düşen su damlalarının zarar vermemesi gerekir.	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	Yağan yağmura karşı koruma Protected against spraying water	Her iki taraftan 60°'ye kadar olan her açıda düşey olarak akıtılan suyun zarar vermemesi gerekir.	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	Fışkıran suya karşı koruma Protected against splash water	Mahfazaya her taraftan püskürtülen suyun zarar vermemesi gerekir.	Water splashed at the enclosure from any direction must not have any damaging effect.
5	Çok hızlı püskürtülen suya karşı koruma Protected against water jet streams	İşletme ekipmanına bir mmeden her yönde püskürtülen suyun zarar vermemesi gerekir.	Water jet streams which make contact with the enclosure from any direction must not have any damaging effect.
6	Çok hızlı kuvvetli püskürtülen suya karşı koruma Protected against high power water jet streams	İşletme ekipmanına bir mmeden kuvvetli olarak her yönden püskürtülen suyun zarar vermemesi gerekir.	High power water jet streams which make contact with the enclosure from any direction must not have any damaging effect.
7	Zaman zaman suya daldırmaya karşı koruma Protected against intermittent submersion in water	İşletme ekipmanı üretici ve kullanıcı arasında varılan mutabakatla tespit edilmiş koşullarda sürekli olarak suya daldırıldığında zararlı olabilecek miktarda su girmemesi gerekir.	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	Sürekli olarak suya daldırmaya karşı koruma Protected against continuous submersion in water	İşletme ekipmanı üretici ve kullanıcı arasında varılan mutabakatla tespit edilmiş koşullarda sürekli olarak suya daldırıldığında zararlı olabilecek miktarda su girmemesi gerekir.	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	Yüksek basınçtaki suya/ Buhara karşı koruma Protected against highly pressurised water and steam jet	İşletme ekipmanı mahfazasına kuvvetli su basınca doğrultusunda zararlı olabilecek kadar su girmemesi gerekir.	Highly pressurised water which is directed at the enclosure from any direction must not have any damaging effect.



since  
**1980**



# GERSAN

ELEKTRİK TİC. ve SAN. A.Ş.

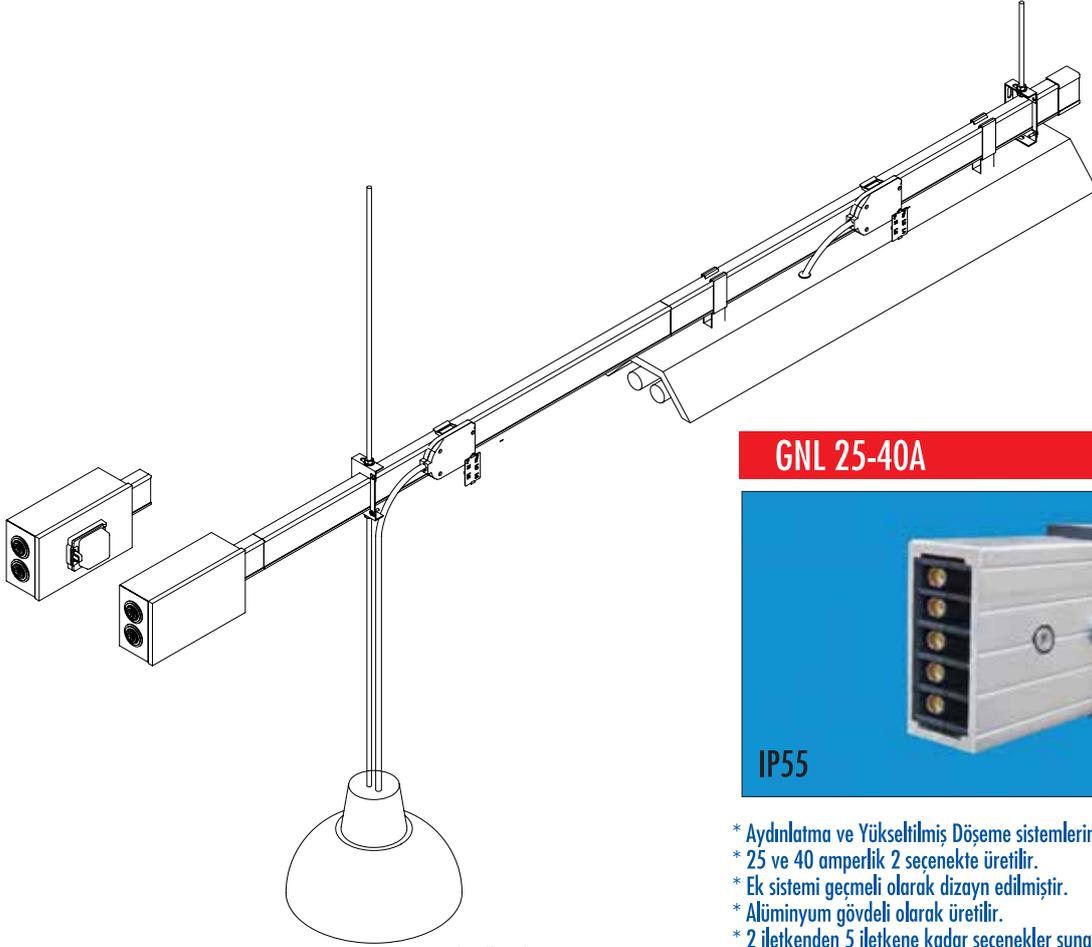


# GNL



ISO 9001 / ISO 14001  
ISO 45001



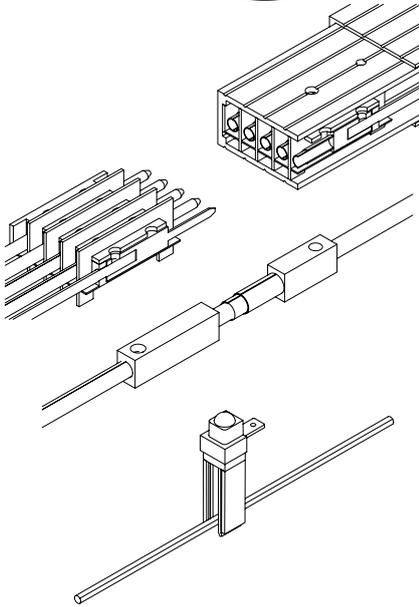


### GNL 25-40A

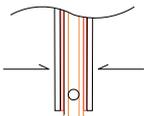


- \* Aydınlatma ve Yükseltilmiş Döşeme sistemlerinde kullanılır.
- \* 25 ve 40 amperlik 2 seçenekte üretilir.
- \* Ek sistemi geçmeli olarak dizayn edilmiştir.
- \* Alüminyum gövdeli olarak üretilir.
- \* 2 iletken 5 iletkene kadar seçenekler sunar.
- \* Busbar ile ilgili tüm sertifikalara ve CE belgesine sahiptir.

- \* 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.

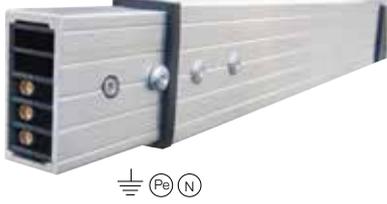


○ ○ ○ ○ ○  
PEc N L3 L2 L1

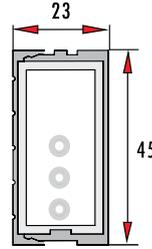
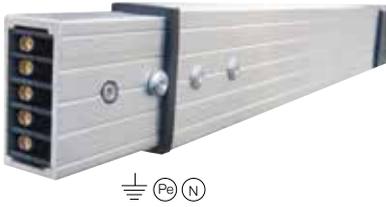


GNL serisi 25-40 A Busbar sistemi aydınlatma ve sistem hatlarının enerjilendirilmesinde kullanılır. İletim, birbirine geçen gümüş konnektörler aracılığı ile sağlanır. Gümüş kaplı akım alma kontaktları ile 16 A' e kadar akım alınabilir.

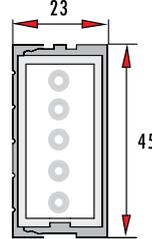
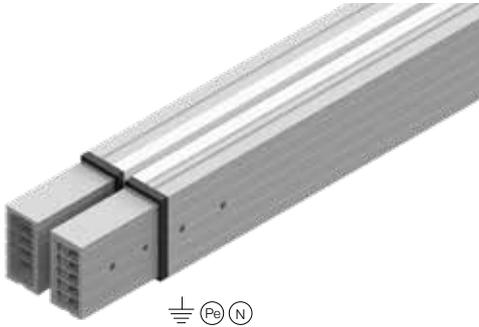
GNL Serie 25-40 A Busbar systems are offered for lighting and feeding systems floor-boxes. The connection is obtained by silver coated connectors. The plug outs may offer 16A current with silver coated contacts.

STANDART BOY ELEMAN P+N+E+(AL Gövde) *Standard Length Element P+N+PEc*

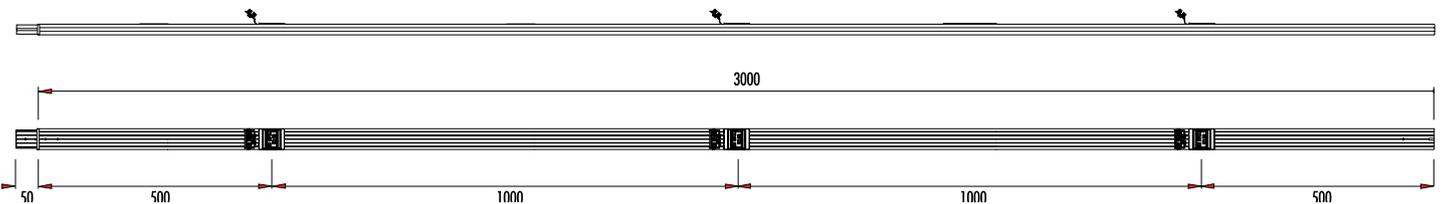
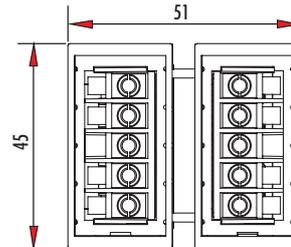
Sipariş kodu Order code	Stok kodu Stock code	A A	L mm	Ağırlık (Kg/ad) Weight (Kg/unit)
GNL 2533	970400255513030	25	3000	0.820
GNL 4033	970500405513030	40	3000	0.920

STANDART BOY ELEMAN 3P+N+E+(AL Gövde) *Standard Length Element 3P+N+E+(AL Housing)*

Sipariş kodu Order code	Stok kodu Stock code	A A	L mm	Ağırlık (Kg/ad) Weight (Kg/unit)
GNL 2535	970800255513050	25	3000	0.940
GNL 4035	970900405513050	40	3000	1.020

STANDART BOY ELEMAN (DALI) *Standard Length Element (DALI)*

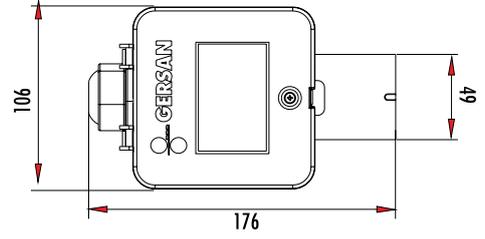
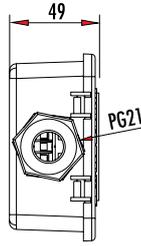
Sipariş kodu Order code	Stok kodu Stock code	A A	L mm	Ağırlık (Kg/ad) Weight (Kg/unit)
GNL 25355	970825255513050	25+25	3000	1.988
GNL 40355	970940405513050	40+40	3000	2.148



### BESLEME ELEMANI (SOL) Feed unit (Left)



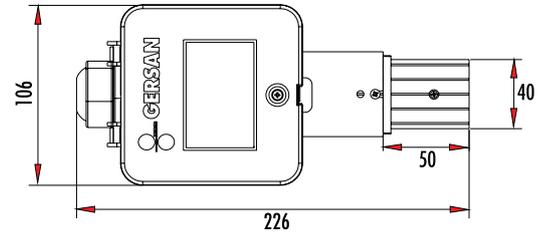
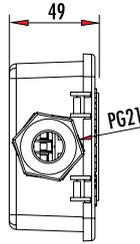
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/ad) Weight (Kg/unit)
GNL EF41-Pec	971000405510050	25-40	0.260
GNL EF41-CE	971000405511050	25-40	0.260
GNL EF41-ACK	971000405512050	25-40	0.260



### BESLEME ELEMANI (SAĞ) Feed unit (Right)

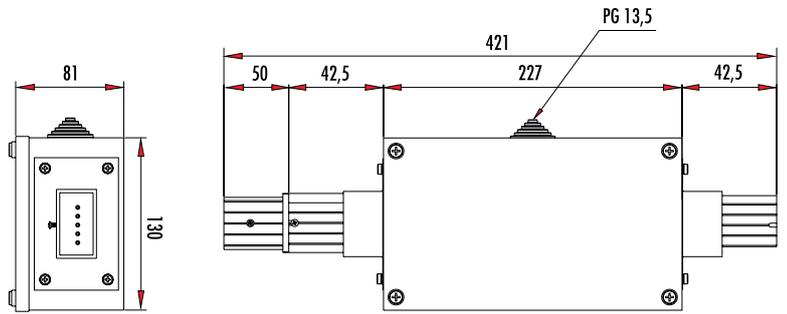


Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/ad) Weight (Kg/unit)
GNL EF42-Pec	971100405510050	25-40	0.380
GNL EF42-CE	971100405511050	25-40	0.380
GNL EF42-ACK	971100405512050	25-40	0.380

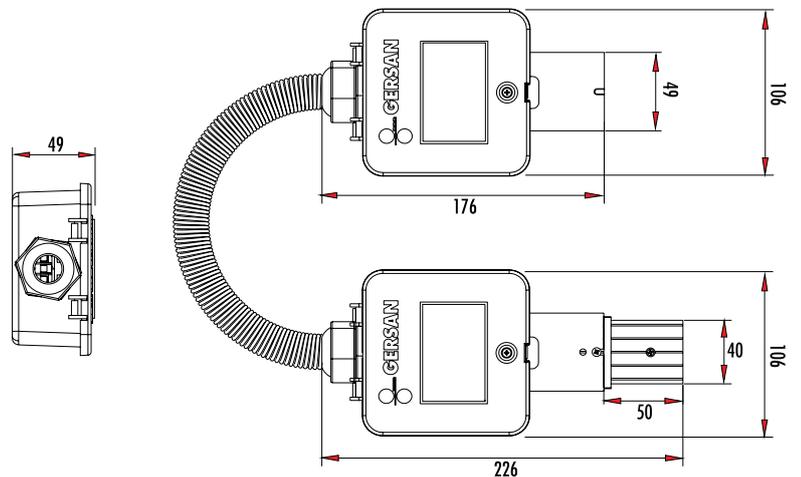


ORTADAN BESLEME ELEMANI 3P+N+1/2 PE *Centre Feed Unit 3P+N+1/2 PE*

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/ad) 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

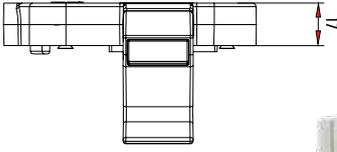
FLEXIBLE DÖNÜŞ ELEMANI *Flexible Joint for Elbow*

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/ad) 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

### AKIM ALMA FİŞİ Lighting Fixture Jack



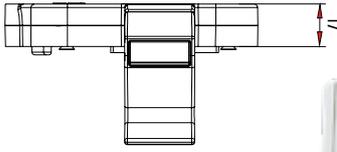
Sipariş kodu Order code	Stok kodu Stock code	A A	Faz Phase	Ağırlık (Kg/ad) Weight (Kg/unit)
GNL 10L1-Pec	971500165521000	10	L1-N-Pec	0.159
GNL 10L2-Pec	971600165521000	10	L2-N-Pec	0.159
GNL 10L3-Pec	971700165521000	10	L3-N-Pec	0.159
GNL 10L4-1-Pec	971800165521000	10	L1-L2-L3-N-Pec	0.240
GNL 10L1-CE	971500165531000	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

Standart kablo boyu= 1000 mm  
Standard cable length: 1000 mm

İstenildiğinde kablo boyu 2000 mm veya 3000 mm veya 4000 mm olarak üretilebilmektedir.  
On request the length of the cable is available with 2000 mm or 3000 mm or 4000 mm.

CE kodlu ürünler temiz topraklıdır.  
Clean Earth is CE coded products.

### CAM SIGORTALI AKIM ALMA FİŞİ Lighting Fixture Jack With Glass Fuse



Sipariş kodu Order code	Stok kodu Stock code	A A	Faz Phase	Ağırlık (Kg/ad) 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

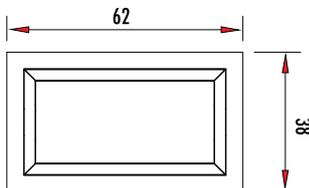
Standart kablo boyu= 1000 mm  
Standard cable length: 1000 mm

İstenildiğinde kablo boyu 2000 mm veya 3000 mm veya 4000 mm olarak üretilebilmektedir.  
On request the length of the cable is available with 2000 mm or 3000 mm or 4000 mm.

CE kodlu ürünler temiz topraklıdır.  
Clean Earth is CE coded products.

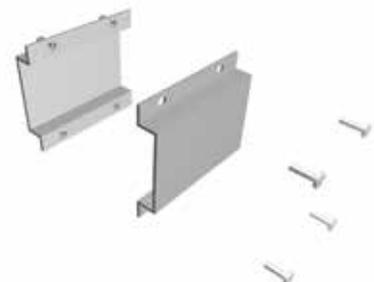
### SONLANDIRMA ELEMANI End Cap

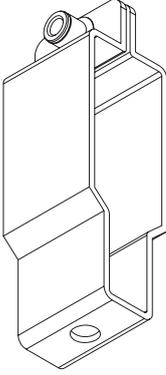
Sipariş kodu Order code	Stok kodu Stock code	Ağırlık (Kg/ad) Weight (Kg/unit)
GNL EC40 (GNL EF41)	801300405550000	0.030
GNL EC41 (GNL EF42)	801300405550001	0.056



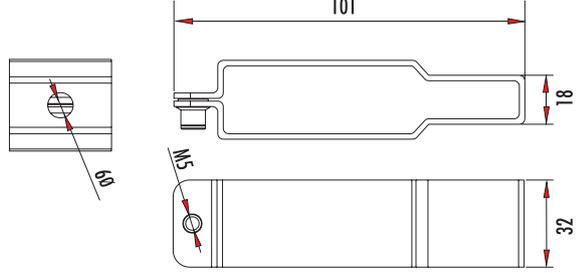
### IP55 EK KAPAĞI IP55 Joint Cover

Sipariş kodu Order code	Stok kodu Stock code	Ağırlık (Kg/ad) Weight (Kg/unit)
GNL ALC	80040040551AL40	0.144

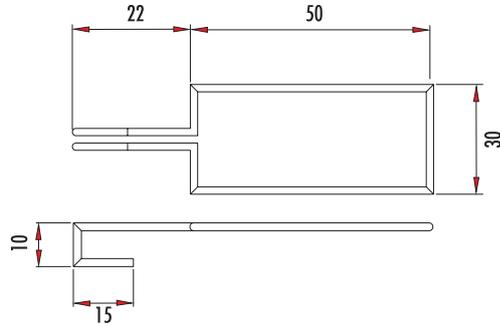


ARMATÜR ASKI ELEMANI *Lighting fixtures fixing hanger*

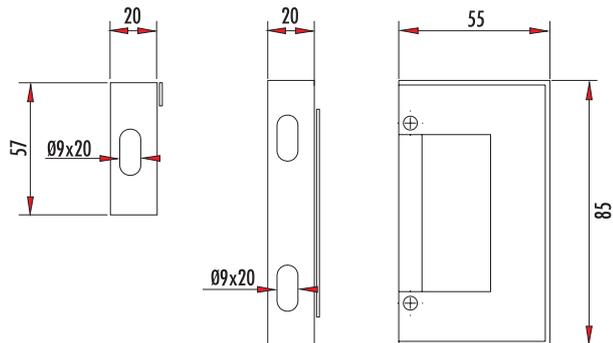
Sipariş kodu Order code	Stok kodu Stock code	Ağırlık (Kg/ad) Weight (Kg/unit)
GNL SSU1	80140000040000	0.038

ARMATÜR ASKI ELEMANI *Lighting fixtures fixing hanger*

Sipariş kodu Order code	Stok kodu Stock code	Ağırlık (Kg/ad) Weight (Kg/unit)
GNL SSU2	80140000040002	0.005

BUSBAR ASKI ELEMANI *Busbar fixing hanger*

Sipariş kodu Order code	Stok kodu Stock code	Ağırlık (Kg/ad) Weight (Kg/unit)
GNL SSU3	80140000040003	0.080





1

1) İki elemanın birbirine eklenecek yüzeyi yanyana getirilir.  
1) The surfaces of both elements that will be added each other are brought side by side.



2

2) Slot delik ve M4 civata birbirine tam oturacak şekilde iki eleman eklenir.  
2) Two elements are added each other by fixing screw on top of the hole (slot).

3) M4 civata, eklenen elemanları sıkıştırarak şekilde sıkılır.  
3) Screw on top of the hole (slot). Screw is screwed.

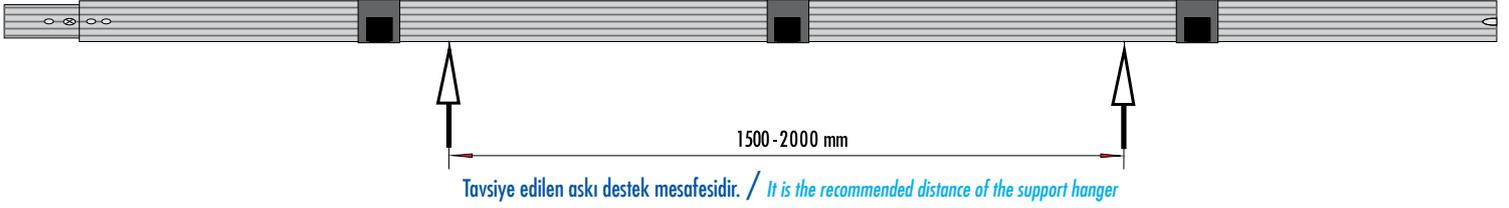


3

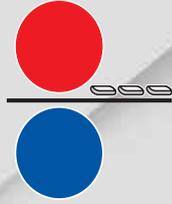
3) 4 adet M5x15 vida ile sıkılarak kapatma işlemi tamamlanır.  
3) Covering process completes with using 4 nos. M5x15 screws.

4) Ek takımı resimdeki parçalardan oluşur.  
4) Joint set have elements like in the picture.

4) Ek kapağı takılmak suretiyle IP55 ve mekanik koruma sağlanır.  
4) Joint covering process supply IP55 and mechanical protection.



TEKNİK BİLGİLER		Technical Details		
			25 A	40 A
İzolasyon Gerilimi <i>Insulation Voltage</i>	$U_i$	V	690	
Uygulama Gerilimi <i>Operational Voltage</i>	$U_E$	V	690	
Frekans <i>Frequency</i>	$f$	Hz	50/60	
Koruma Derecesi <i>Degree of Protection</i>	IP		55	
Nominal Akım <i>Rated Current</i>	$I_N$	A	25	40
Kısa Devre Akımı (1 sn) <i>Rated Short circuit time current (1 s)</i>	$I_{cw} (I_s)$	kA rms	2.5	2.5
Kısa Devre Akımı <i>Peak current</i>	$I_{pk}$	kA	3.75	3.75
Faz Direnci <i>Phase resistance</i>	$R_{20}$	$m\Omega/m$	7.2	4.5
Faz Direnci <i>Phase resistance</i>	$R_1$	$m\Omega/m$	9.6	6.03
Faz Reaktansı <i>Phase reactance</i>	$X_1$	$m\Omega/m$	12	7.5
Faz Empedansı <i>Phase impedance</i>	$Z_1$	$m\Omega/m$	15.3	9.6
Faz Kesiti <i>Cross section phases</i>	$S$	$mm^2$	2.5	4
Nötr Kesiti <i>Cross section neutral</i>	$S_N$	$mm^2$	2.5	4
Alüminyum Kasa Kesiti <i>Cross section of protective conductor (Aluminium)</i>	$S_{PE}$	$mm^2$	153.60	



# GERSAN

ELEKTRİK TİC. ve SAN. A.Ş.

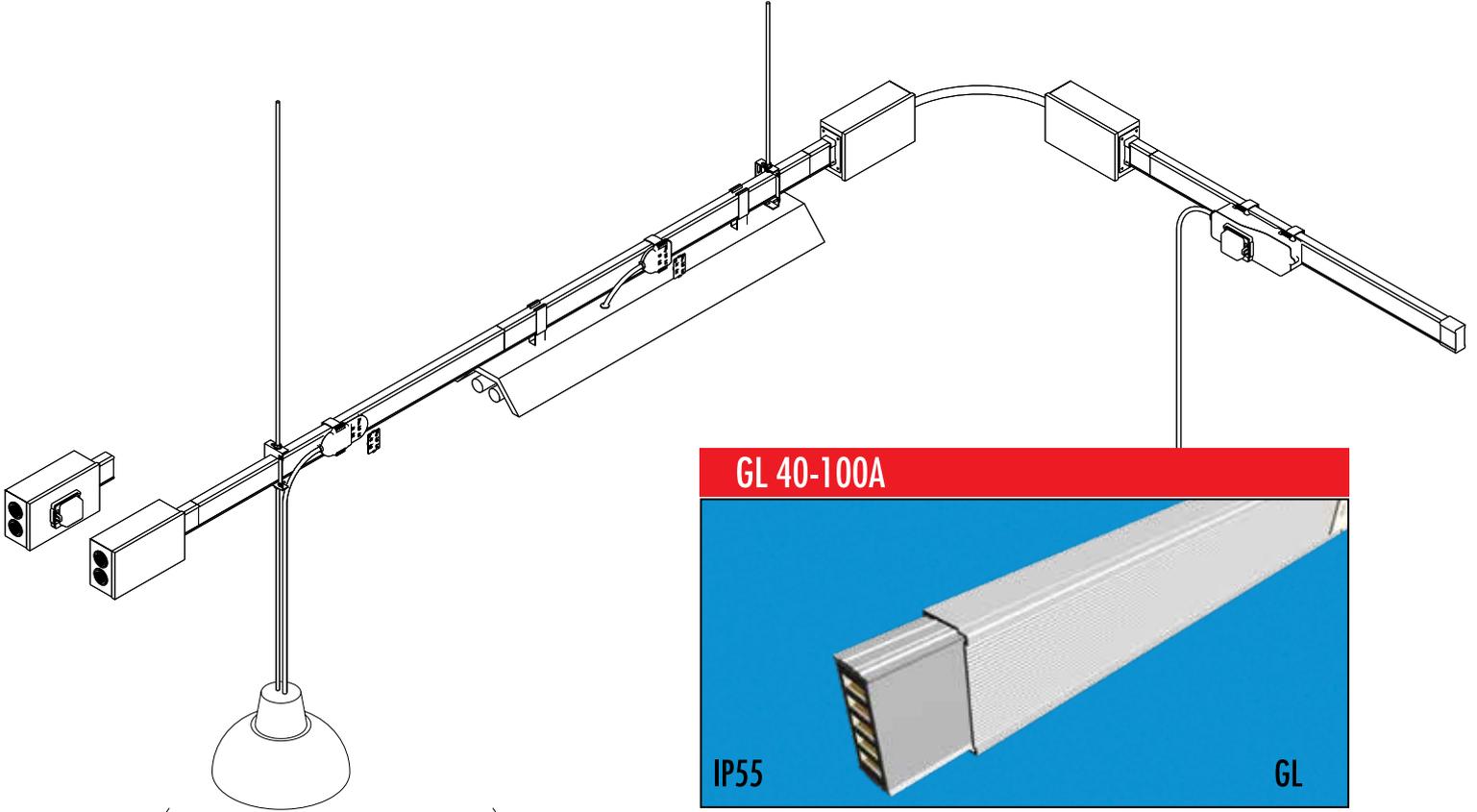


# GL



ISO 9001 / ISO 14001  
ISO 45001





GL 40-100A

IP55

GL

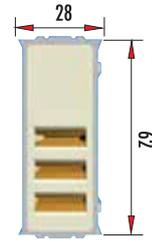
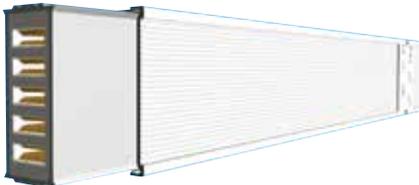
- \* Düşük güç dağıtımı için kullanılır.
- \* Alüminyum gövdesi dekoratif görünüm sağlar.
- \* 2, 3, 4 ve 5 baralı olarak üretilir.
- \* Pec (Temiz Toprak) iletkeni sağlar.
- \* Alüminyum gövde ekstra Pe iletkeni olarak kullanılabilir.
- \* İletkenleri bakır veya alüminyum tercih edilebilir.
- \* Sıkı geçme baralı ek sistemi montajını kolay hale getirir.
- \* Zengin bir aksesuara sahiptir.
- \* IP55 koruma standartlarında üretilir.
- \* Busbar ile ilgili uluslararası tüm sertifikalara ve CE belgesine sahiptir.

- \* 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.

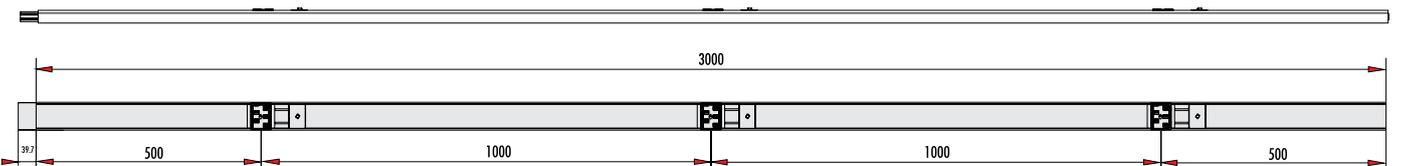
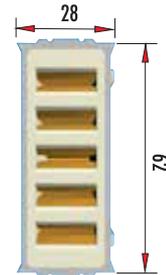
PEc N L3 L2 L1

STANDART BOY ELEMAN P+N+E+(AL Gövde) *Standard Length Element P+N+E+(AL Housing)*

Sipariş kodu Order code	Stok kodu Stock code	A A	L mm	Ağırlık (Kg/m) 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

STANDART BOY ELEMAN 3P+N+E+(AL Gövde) *Standard Length Element 3P+N+E+(AL Housing)*

Sipariş kodu Order code	Stok kodu Stock code	A A	L mm	Ağırlık (Kg/m) 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



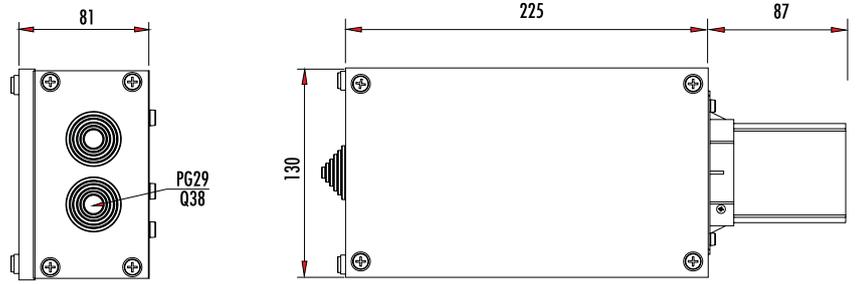
Siyah yazılı ürünler alüminyum baralı. Kırmızı yazılı ürünler bakır baralı olarak imal edilmektedir.

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

### BESLEME ELEMANI (SOL) Feed unit (Left)



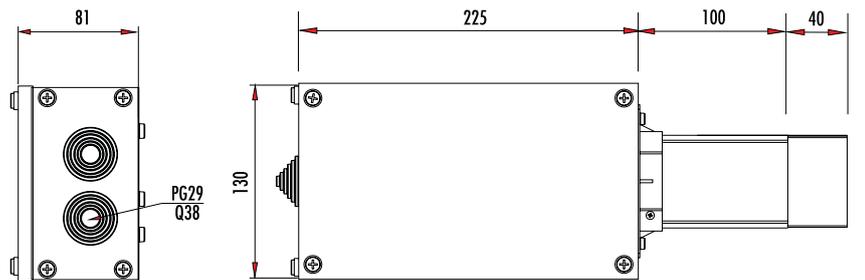
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/ad) Weight (Kg/unit)
GLA EF41-Pec	951001005510050	40-63	1.600
GLA EF41-CE	951001005511050	40-63	1.600
GLA EF41-ACK	951001005512050	40-63	1.600
GLC EF41-Pec	961001605510050	63-100	1.880
GLC EF41-CE	961001605511050	63-100	1.880
GLC EF41-ACK	961001605512050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



### BESLEME ELEMANI (SAĞ) Feed unit (Right)

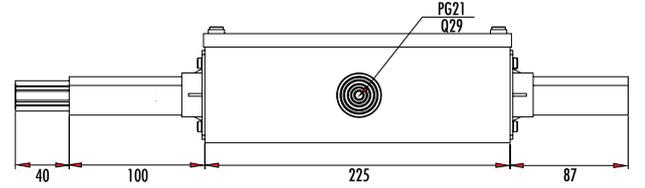
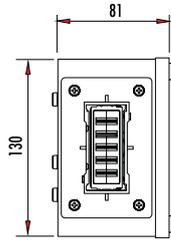


Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/ad) Weight (Kg/unit)
GLA EF42-Pec	951101005510050	40-63	1.830
GLA EF42-CE	951101005511050	40-63	1.830
GLA EF42-ACK	951101005512050	40-63	1.830
GLC EF42-Pec	961101605510050	63-100	2.100
GLC EF42-CE	961101605511050	63-100	2.100
GLC EF42-ACK	961101605512050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



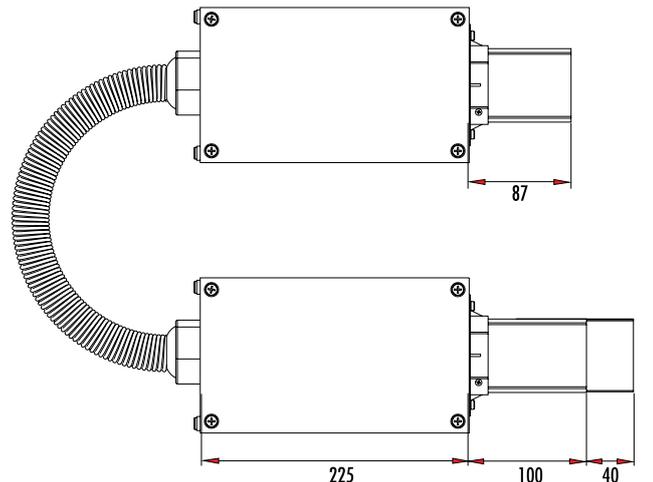
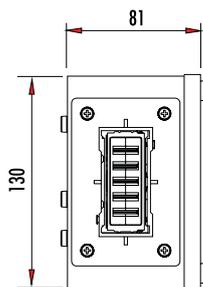
ORTADAN BESLEME ELEMANI 3P+N+1/2 PE *Centre Feed Unit 3P+N+1/2 PE*

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/ad) 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

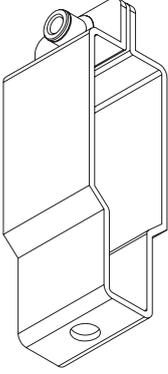
FLEXIBLE DÖNÜŞ ELEMANI *Flexible Joint for Elbow*

L=1000 mm

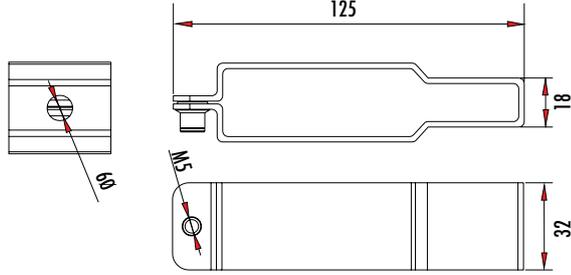
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/ad) Weight (Kg/unit)
GLA 63FX-Pec	952301005511000	40-63	4.300
GLA 63FX-CE	952301005521000	40-63	4.300
GLA 63FX-ACK	952301005531000	40-63	4.300
GLC 160FX-Pec	962301605511000	63-100	6.200
GLC 160FX-CE	962301605521000	63-100	6.200
GLC 160FX-ACK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



### ARMATÜR ASKI ELEMANI *Lighting fixtures fixing hanger*



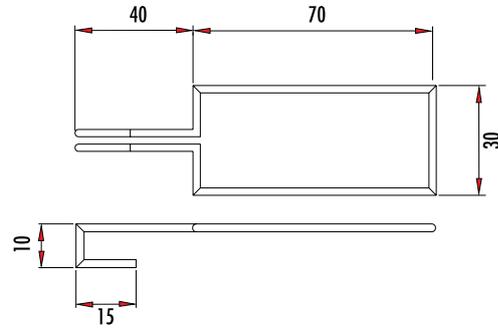
Sipariş kodu Order code	Stok kodu Stock code	Ağırlık (Kg/ad) Weight (Kg/unit)
GL SSU1	95140000040000	0.045



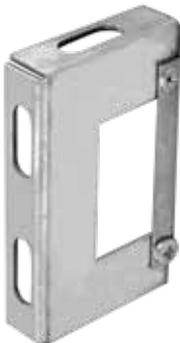
### ARMATÜR ASKI ELEMANI *Lighting fixtures fixing hanger*



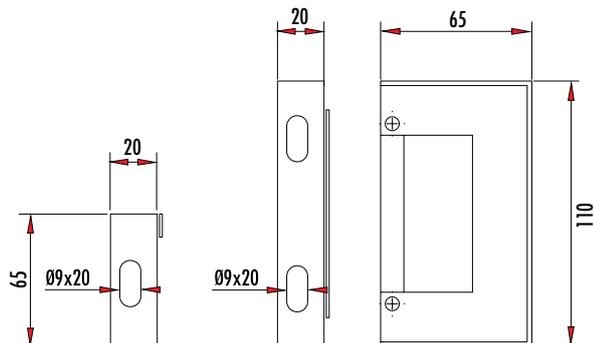
Sipariş kodu Order code	Stok kodu Stock code	Ağırlık (Kg/ad) Weight (Kg/unit)
GL SSU2	95140000040002	0.007

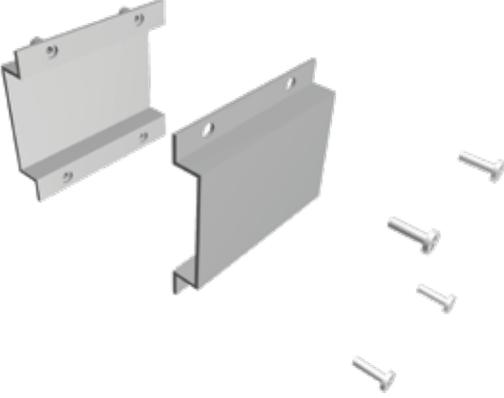


### BUSBAR ASKI ELEMANI *Busbar fixing hanger*



Sipariş kodu Order code	Stok kodu Stock code	Ağırlık (Kg/ad) Weight (Kg/unit)
GL SSU3	95140000040003	0.110

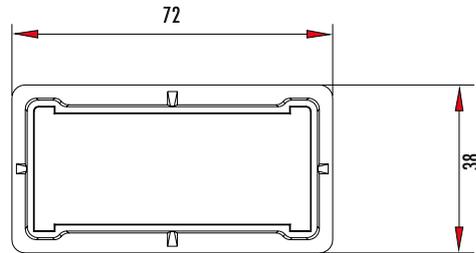


IP55 EK KAPAĞI *IP55 Joint Cover*

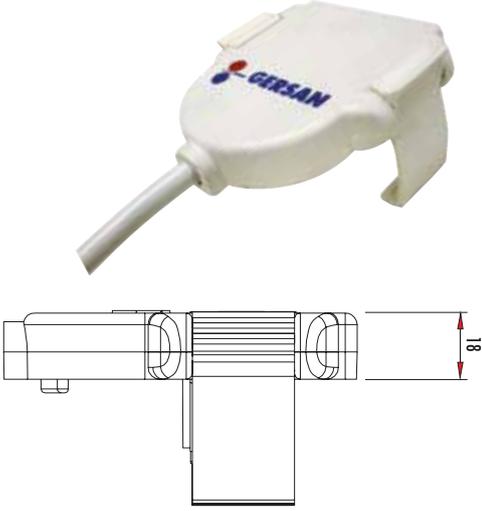
Sipariş kodu Order code	Stok kodu Stock code	Ağırlık (Kg/ad) Weight (Kg/unit)
GL ALC	95040160551AL50	0.160

SONLANDIRMA ELEMANI *End Cap*

Sipariş kodu Order code	Stok kodu Stock code	Ağırlık (Kg/ad) Weight (Kg/unit)
GL EC40 (GL EF41)	951301605550000	0.023
GL EC40 (GL EF42)	951301605500001	0.060



### AKIM ALMA FİŞİ *Lighting Fixture Jack*



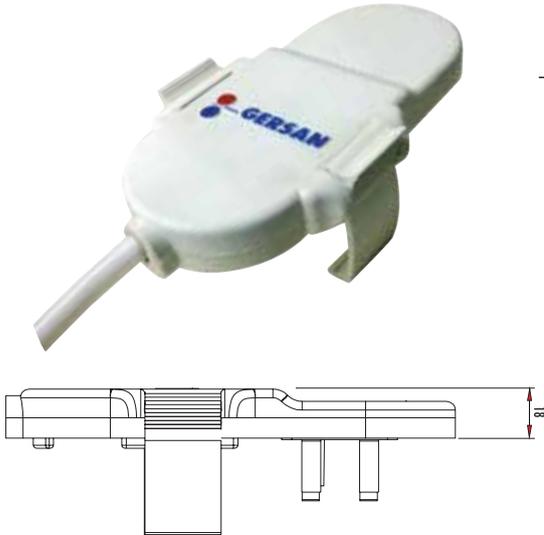
Sipariş kodu Order code	Stok kodu Stock code	A A	Faz Phase	Ağırlık (Kg/ad) Weight (Kg/unit)
GL 16L1-Pec	951500165511000	16	L1-N-Pec	0.200
GL 16L2-Pec	951600165511000	16	L2-N-Pec	0.200
GL 16L3-Pec	951700165511000	16	L3-N-Pec	0.200
GL 16L4-1-Pec	951800165511000	16	L1-L2-L3-N-Pec	0.276
GL 16L1-CE	951500165531000	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 (gövde/housing)	0.276
GL 16L2-ACK	951600165541000	16	L2-N-ACK-Pe (gövde/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)	0.200
GL 16L2	951600165521000	16	L2-N-Pe (gövde/housing)	0.200
GL 16L3	951700165521000	16	L3-N-Pe (gövde/housing)	0.200
GL 16L4-1	951800165521000	16	L1-L2-L3-N-Pe (gövde/housing)	0.276

Standart kablo boyu= 1000 mm  
Standard cable length: 1000 mm

İstenildiğinde kablo boyu 2000 mm veya 3000 mm veya 4000 mm olarak üretilebilmektedir.  
On request the length of the cable is available with 2000 mm or 3000 mm or 4000 mm.

CE kodlu ürünler temiz topraklıdır.  
Clean Earth is CE coded products.

### CAM SİGORTALI AKIM ALMA FİŞİ *Lighting Fixture Jack With Glass Fuse*



Sipariş kodu Order code	Stok kodu Stock code	A A	Faz Phase	Ağırlık (Kg/ad) 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

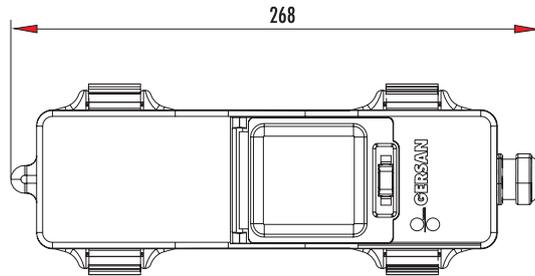
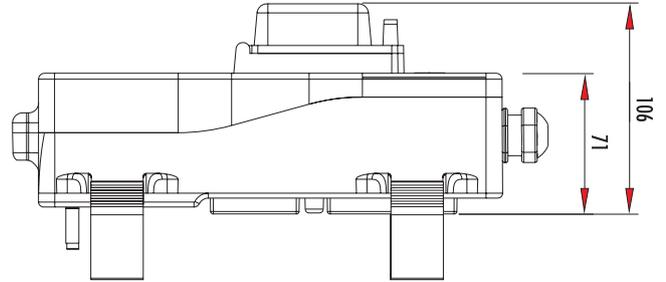
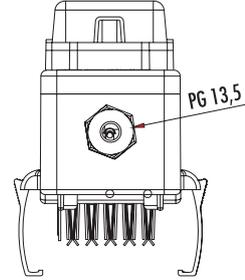
Standart kablo boyu= 1000 mm  
Standard cable length: 1000 mm

İstenildiğinde kablo boyu 2000 mm veya 3000 mm veya 4000 mm olarak üretilebilmektedir.  
On request the length of the cable is available with 2000 mm or 3000 mm or 4000 mm.

CE kodlu ürünler temiz topraklıdır.  
Clean Earth is CE coded products.

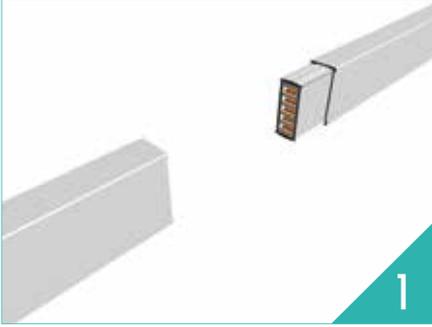
MCB TİPİ ÇIKIŞ KUTUSU *MCB Type Tap-Off Box*

Sipariş kodu Order code	Stok kodu Stock code	Uygulama/Sigortasız Execution	Ağırlık (Kg/ad) 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



Busbarların tiplerine göre birbirlerine akuple edilebilirler. 32A trifaze veya monofaze Cam sigortalı olarak imal edilebilirler.

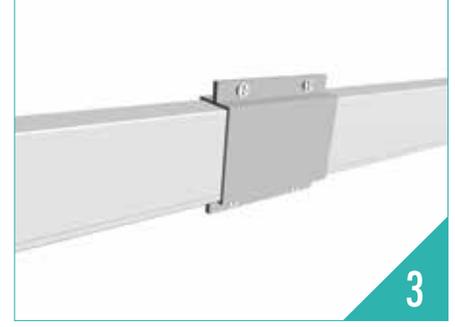
Tap-offs are interchangeable between busbar types. These materials are designed according to 32A triphase and monophase with glass fuse.



1) İki elemanın birbirine eklenecek yüzeyi yanyana getirilir.  
1) The surfaces of both elements that will be added each other are brought side by side.



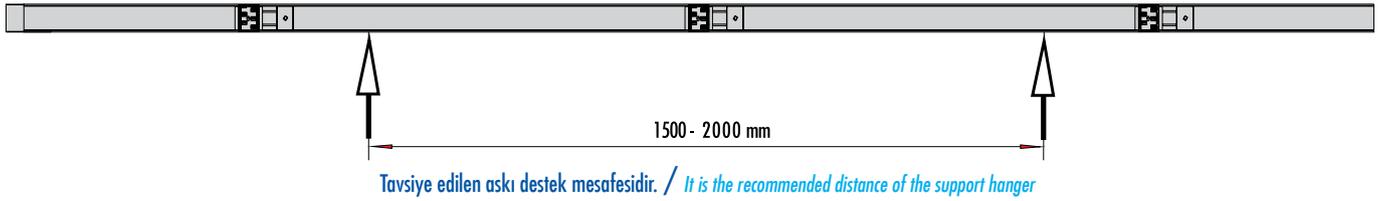
3) Ek takımı resimdeki parçalardan oluşur.  
3) Joint set have elements like in the picture.



4) 4 adet M5x15 vida ile sıkılarak kapatma işlemi tamamlanır.  
4) Covering process completes with using 4 nos. M5x15 screws.

2) Busbarların ek noktalarını birleştiriniz.  
2) Position Busbar with uniting joint points.

5) Ek kapağı takılmak suretiyle IP55 ve mekanik koruma sağlanır.  
5) Joint covering process supply IP55 and mechanical protection.

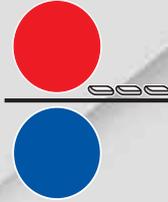


### TEKNİK BİLGİLER

### Technical Details

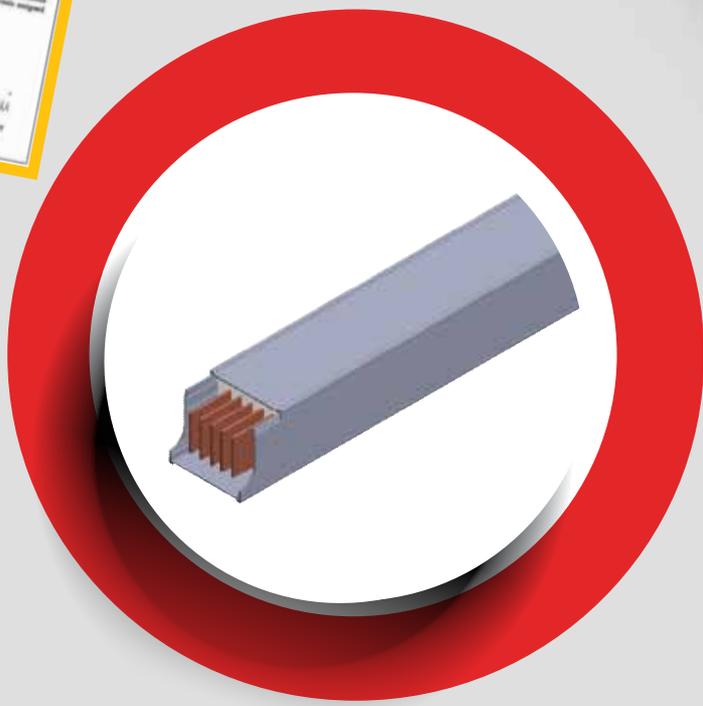
			40 A	63 A	100 A
İzolasyon Gerilimi <i>Insulation voltage</i>	$U_i$	V	690		
Uygulama Gerilimi <i>Operational Voltage</i>	$U_E$	V	690		
Frekans <i>Frequency</i>	$f$	Hz	50/60		
Koruma Derecesi <i>Degree of protection</i>	IP		55		
Nominal Akım <i>Rated current</i>	$I_N$	A	40	63	100
Kısa Devre Akımı (1sn) <i>Rated short circuit time current (1 s)</i>	$I_{cw} (I_s)$	kA rms	3	3	3.5
Kısa Devre Akımı <i>Peak current</i>	$I_{pk}$	kA	4.5	4.5	5.25
Faz Direnci <i>Phase resistance</i>	$R_{20}$	m $\Omega$ /m	1.8	1.28	0.9
Faz Direnci <i>Phase resistance</i>	$R_1$	m $\Omega$ /m	2,41	1,71	1,2
Faz Reaktansı <i>Phase reactance</i>	$X_1$	m $\Omega$ /m	0,98	0,7	0,43
Faz Empedansı <i>Phase impedance</i>	$Z_1$	m $\Omega$ /m	2,61	1,85	1,3
Faz Kesiti <i>Cross section phases</i>	S	mm <sup>2</sup>	10	14	26
Nötr Kesiti <i>Cross section neutral</i>	$S_N$	mm <sup>2</sup>	10	14	26
Alüminyum Kasa Kesiti <i>Cross section of protective conductor (aluminium)</i>	$S_{PE}$	mm <sup>2</sup>	280		

since  
**1980**



# GERSAN

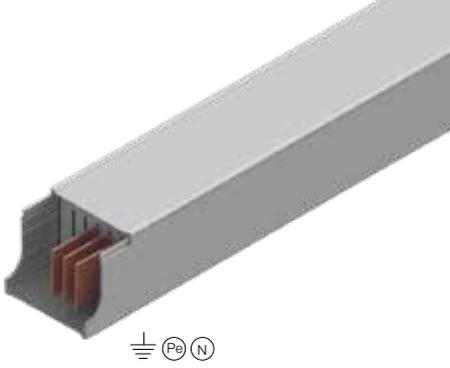
ELEKTRİK TİC. ve SAN. A.Ş.



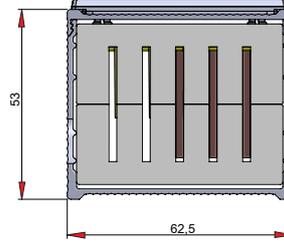
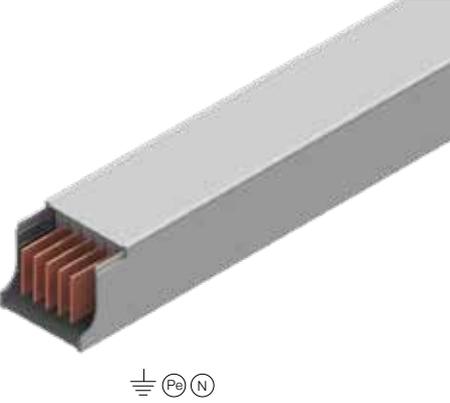
# GM



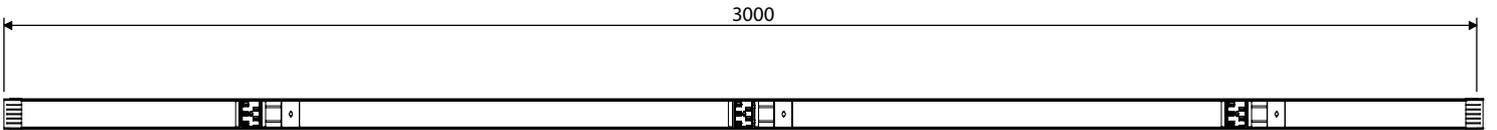
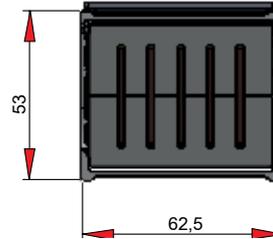


STANDART BOY ELEMAN P+N+E+(AL Gövde) *Standard Length Element P+N+E+(AL Housing)*

Sipariş kodu Order code	Stok kodu Stock code	A A	L mm	Ağırlık (Kg/m) 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

STANDART BOY ELEMAN 3P+N+E+(AL Gövde) *Standard Length Element 3P+N+E+(AL Housing)*

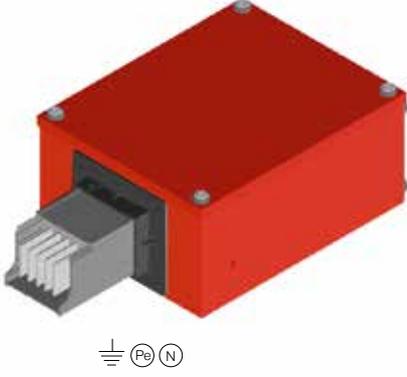
Sipariş kodu Order code	Stok kodu Stock code	A A	L mm	Ağırlık (Kg/m) Weight (Kg/m)
GMA 10035	930101005513050	100	3000	3,380
GMA 16035	930101605513050	160	3000	3,670
GMA 22535	930102255513050	225	3000	4.170
GMA 40035	930104005513050	400	3000	4.670
GMC 16035	940101605513050	160	3000	4,620
GMC 22535	940102255513050	225	3000	6,000
GMC 40035	940104005513050	400	3000	7.500



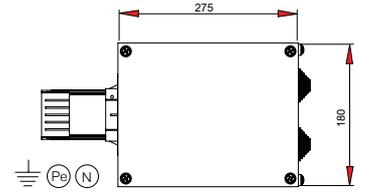
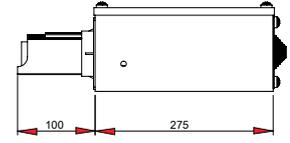
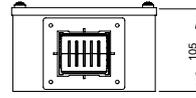
Siyah yazılı ürünler alüminyum baralı. Kırmızı yazılı ürünler bakır baralı olarak imal edilmektedir.

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

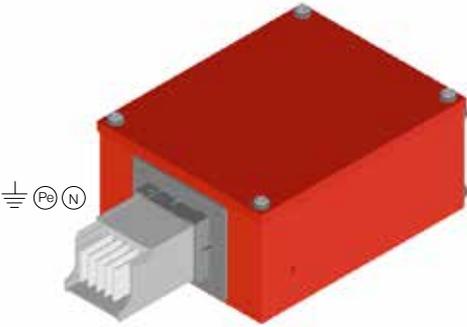
### BESLEME ELEMANI (SOL) Feed unit (Left)



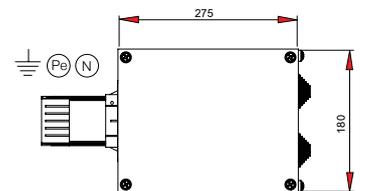
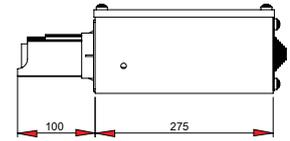
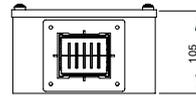
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/m) Weight (Kg/m)
GMA EF41-Pec	931001605510050	100-400	4.400
GMA EF41-CE	931001605511050	100-400	4.400
GMA EF41-ACK	931001605512050	100-400	4.400
GMC EF41-Pec	941002255510050	160-400	5.130
GMC EF41-CE	941002255511050	160-400	5.130
GMC EF41-ACK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

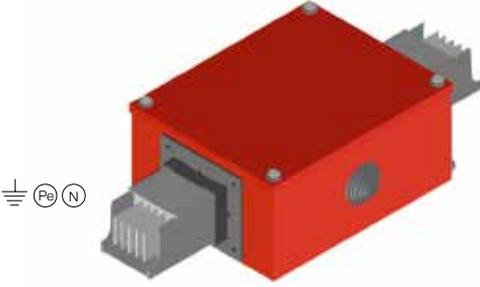


### BESLEME ELEMANI (SAĞ) Feed unit (Right)

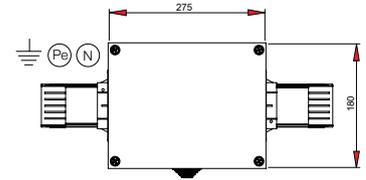
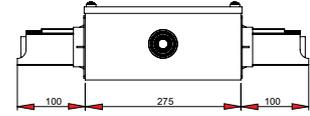
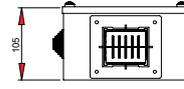
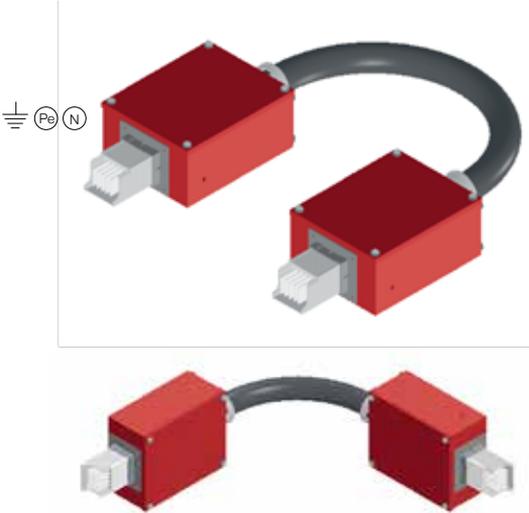


Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/ad.) Weight (Kg/unit)
GMA EF42-Pec	931101605510050	100-400	4.400
GMA EF42-CE	931101605511050	100-400	4.400
GMA EF42-ACK	931101605512050	100-400	4.400
GMC EF42-Pec	941102255510050	160-400	5.130
GMC EF42-CE	941102255511050	160-400	5.130
GMC EF42-ACK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

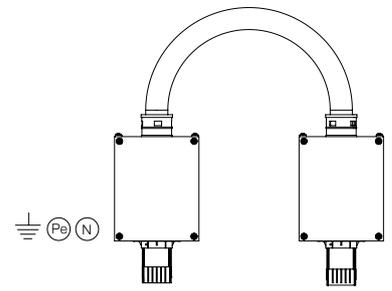
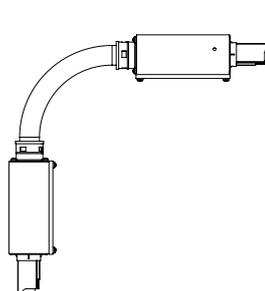
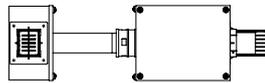


ORTADAN BESLEME ELEMANI 3P+N+1/2 PE *Centre Feed Unit 3P+N+1/2 PE*

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/ad.) 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

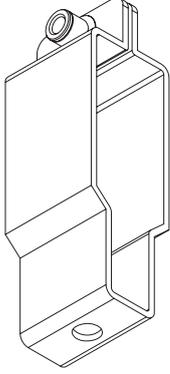
FLEXIBLE DÖNÜŞ ELEMANI *Flexible Joint for Elbow*

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/ad.) 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

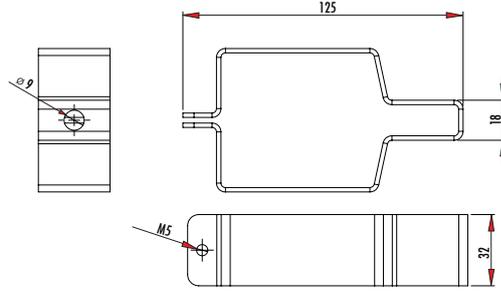


L=1000 mm

### ARMATÜR ASKI ELEMANI *Lighting fixtures fixing hanger*



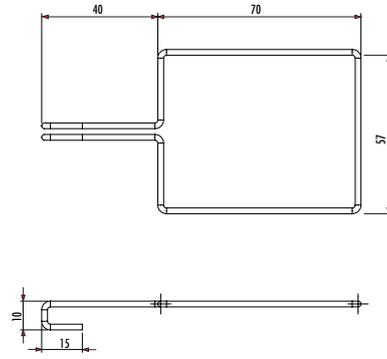
Sipariş kodu Order code	Stok kodu Stock code	Ağırlık (Kg/ad.) Weight (Kg/unit)
GM SSU1	93140000040000	0.080



### ARMATÜR ASKI ELEMANI *Lighting fixtures fixing hanger*



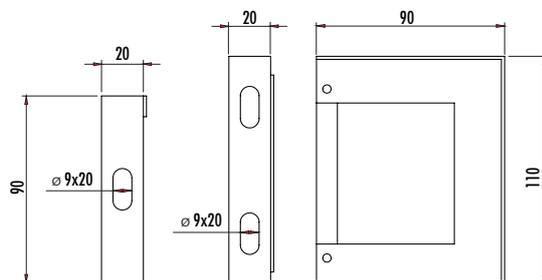
Sipariş kodu Order code	Stok kodu Stock code	Ağırlık (Kg/ad.) Weight (Kg/unit)
GM SSU2	93140000040002	0.011

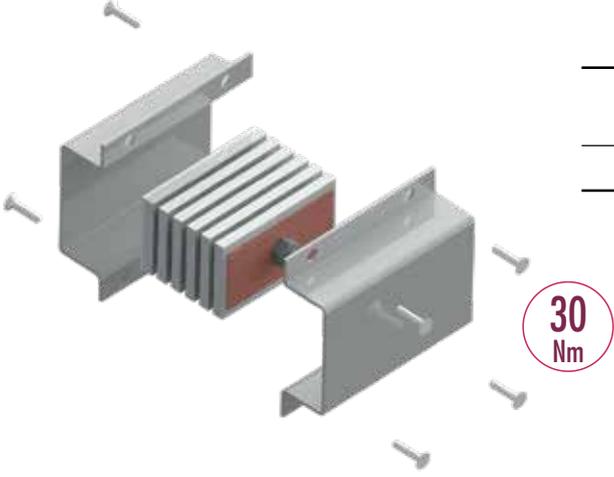


### BUSBAR ASKI ELEMANI *Busbar fixing hanger*



Sipariş kodu Order code	Stok kodu Stock code	Ağırlık (Kg/ad.) Weight (Kg/unit)
GM SSU3	93140000040003	0.170

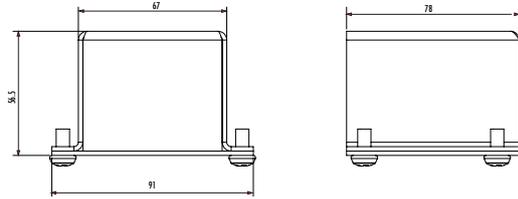


IP55 EK KAPAĞI *IP55 Joint Cover*

Sipariş kodu Order code	Stok kodu Stock code	Ağırlık (Kg/ad.) Weight (Kg/unit)
GM ALC	93040160551AL50	0.240

SONLANDIRMA ELEMANI *End Cap*

Sipariş kodu Order code	Stok kodu Stock code	Ağırlık (Kg/ad.) Weight (Kg/unit)
GM EC40	931301605550000	0.200



### AKIM ALMA FİŞİ *Lighting Fixture Jack*



Sipariş kodu Order code	Stok kodu Stock code	A A	Faz Phase	Ağırlık (Kg/ad.) 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(gövde/housing)	0.400
GM 16L2-ACK	931600165541000	16	L2-N-ACK-Pe(gövde/housing)	0.400
GM 16L3-ACK	931700165541000	16	L3-N-ACK-Pe(gövde/housing)	0.400
GM 16L1	931500165521000	16	L1-N-Pe(gövde/housing)	0.380
GM 16L2	931600165521000	16	L2-N-Pe(gövde/housing)	0.380
GM 16L3	931700165521000	16	L3-N-Pe(gövde/housing)	0.380
GM 16L4-1	931800165521000	16	L1-L2-L3-N-Pe(gövde/housing)	0.430

Standart kablo boyu= 1000 mm  
Standard cable length: 1000 mm

İstenildiğinde kablo boyu 2000 mm veya 3000 mm veya 4000 mm olarak üretilebilmektedir.  
On request the length of the cable is available with 2000 mm or 3000 mm or 4000 mm.

CE kodlu ürünler temiz topraklıdır.  
Clean Earth is CE coded products.

### CAM SİGORTALI AKIM ALMA FİŞİ *Lighting Fixture Jack With Glass Fuse*

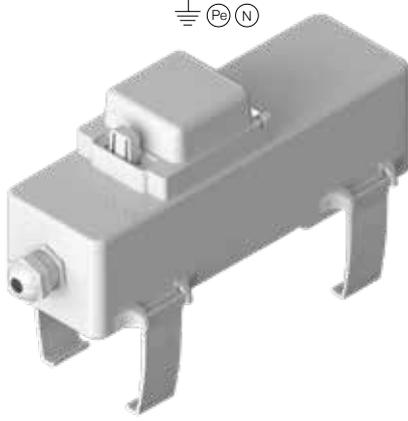


Sipariş kodu Order code	Stok kodu Stock code	A A	Faz Phase	Ağırlık (Kg/ad.) Weight (Kg/unit)
GM 16F1-Pec	931900165511000	16	L1-N-Pe	0.400
GM 16F2-Pec	932000165511000	16	L2-N-Pe	0.400
GM 16F3-Pec	932100165511000	16	L3-N-Pe	0.400
GM 16F4-1-Pec	932200165511000	16	L1-L2-L3-N-Pe	0.450
GM 16F1-CE	931900165531000	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(gövde/housing)	0.420
GM 16F2-ACK	932000165541000	16	L2-N-ACK-Pe(gövde/housing)	0.420
GM 16F3-ACK	932100165541000	16	L3-N-ACK-Pe(gövde/housing)	0.420
GM 16F1	931900165521000	16	L1-N-Pe(gövde/housing)	0.400
GM 16F2	932000165521000	16	L2-N-Pe(gövde/housing)	0.400
GM 16F3	932100165521000	16	L3-N-Pe(gövde/housing)	0.400
GM 16F4-1	932200165521000	16	L1-L2-L3-N-Pe(gövde/housing)	0.480

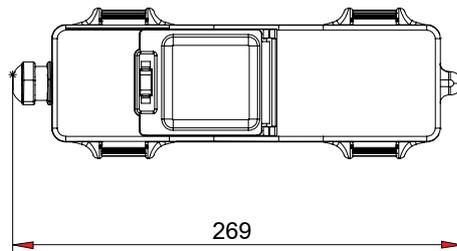
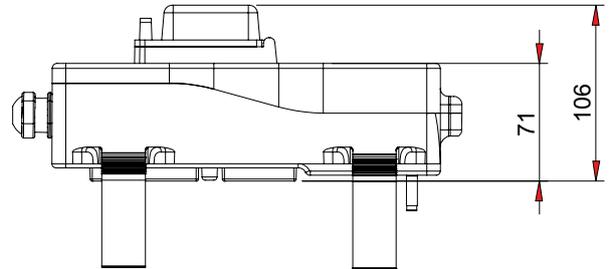
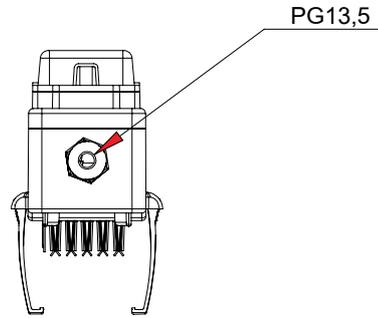
Standart kablo boyu= 1000 mm  
Standard cable length: 1000 mm

İstenildiğinde kablo boyu 2000 mm veya 3000 mm veya 4000 mm olarak üretilebilmektedir.  
On request the length of the cable is available with 2000 mm or 3000 mm or 4000 mm.

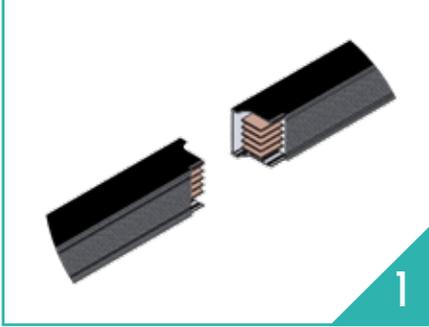
CE kodlu ürünler temiz topraklıdır.  
Clean Earth is CE coded products.

MCB TİPİ ÇIKIŞ KUTUSU *MCB Type Tap-Off Box*

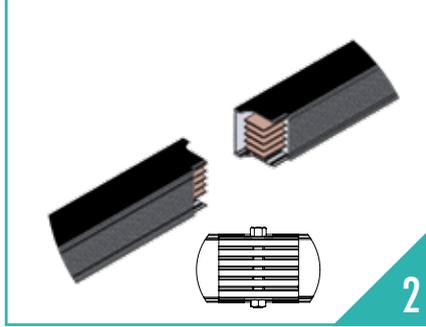
Sipariş kodu Order code	Stok kodu Stock code	Uygulama Execution Sigortasız	Ağırlık (Kg/ad.) Weight (Kg/unit)
GM F32W-Pec	932200325511000	3x32A MCB	0.470
GM F32G-Pec	932300325511000	3x32A GF	0.600
GM F32W-CE	932200325521000	3x32A MCB	0.470
GM F32G-CE	932300325521000	3x32A GF	0.600



Busbarların tiplerine göre birbirlerine akuple edilebilirler. 32A trifaze veya monofaze Cam sigortalı olarak imal edilebilirler.  
*Tapp-offs are interchangeable between busbar types. These materials are designed according to 32A triphase and monophase with glass fuse.*



1) İki elemanın birbirine eklenecek yüzeyi yan yana getirilir.  
1) The surfaces of both elements that will be added each other are brought side by side.



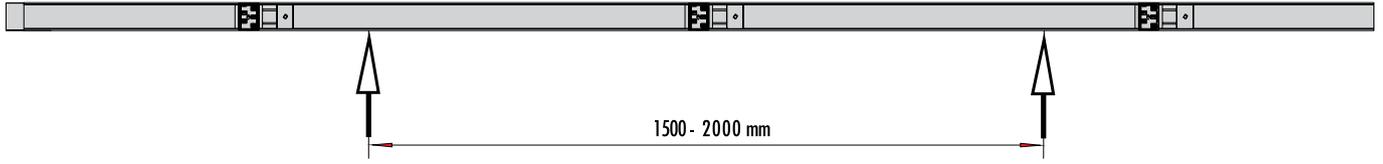
3) Ek takımı resimdeki parçalardan oluşur.  
3) Joint set have elements like in the picture.



4) 4 adet M5x15 vida ile sıkılarak kapatma işlemi tamamlanır.  
4) Covering process completes with using 4 nos. M5x15 screws.

2) Busbarların ek noktalarını birleştiriniz.  
2) Position Busbar with uniting joint points.

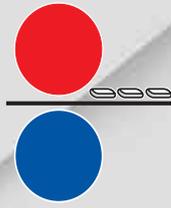
5) Ek kapağı takılmak suretiyle IP55 ve mekanik koruma sağlanır.  
5) Joint covering process supply IP55 and mechanical protection.



Tavsiye edilen askı destek mesafesidir. / It is the recommended distance of the support hanger

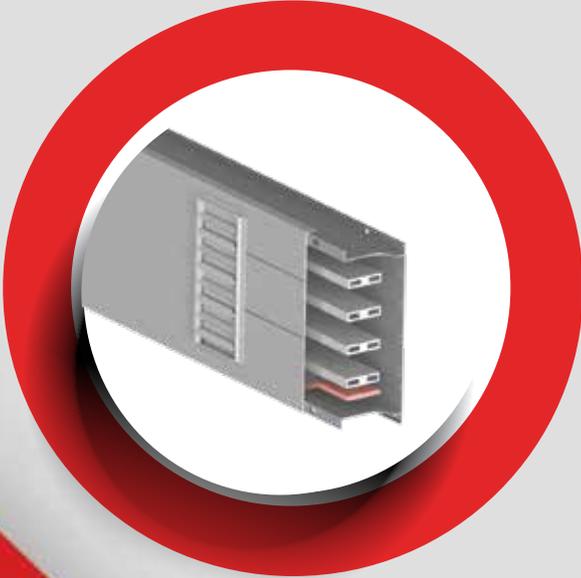
TEKNİK BİLGİLER		Technical Details				
			100 A	160 A	250 A	400 A
İzolasyon Gerilimi <i>Insulation Voltage</i>	$U_i$	V		1000		
Uygulama Gerilimi <i>Operational Voltage</i>	$U_E$	V		690		
Frekans <i>Frequency</i>	$f$	Hz		50/60		
Koruma Derecesi <i>Degree of Protection</i>	IP			55		
Nominal Akım <i>Rated Current</i>	$I_N$	A	100	160	225(250)	315(400)
Kısa Devre Akımı (1 sn) <i>Rated Short circuit time current (1 s)</i>	$I_{CW} (1s)$	kArms	3.5	6	12,5	15
Kısa Devre Akımı <i>Peak current</i>	$I_{pk}$	kA	5,25	9	18,75	22.5
Faz Direnci <i>Phase resistance</i>	$R_{20}$	m $\Omega$ /m	0,49	0,32	0,25	0,19
Faz Direnci <i>Phase resistance</i>	$R_l$	m $\Omega$ /m	0,58	0,38	0,29	0,23
Faz Reaktansı <i>Phase reactance</i>	$X_l$	m $\Omega$ /m	0,20	0,13	0,10	0,08
Faz Empedansı <i>Phase impedance</i>	$Z_l$	m $\Omega$ /m	0,61	0,40	0,30	0,06
Faz Kesiti <i>Cross section phases</i>	S	mm <sup>2</sup>	25(50)	50(75)	75(100)	100(125)
Nötr Kesiti <i>Cross section neutral</i>	$S_N$	mm <sup>2</sup>	25(50)	50(75)	75(100)	100(125)
Alüminyum Kasa Kesiti <i>Cross section of protective conductor (Aluminium)</i>	$S_{PE}$	mm <sup>2</sup>	300	300	300	300

since  
**1980**



# GERSAN

ELEKTRİK TİC. ve SAN. A.Ş.



**GGD 160-400 A**



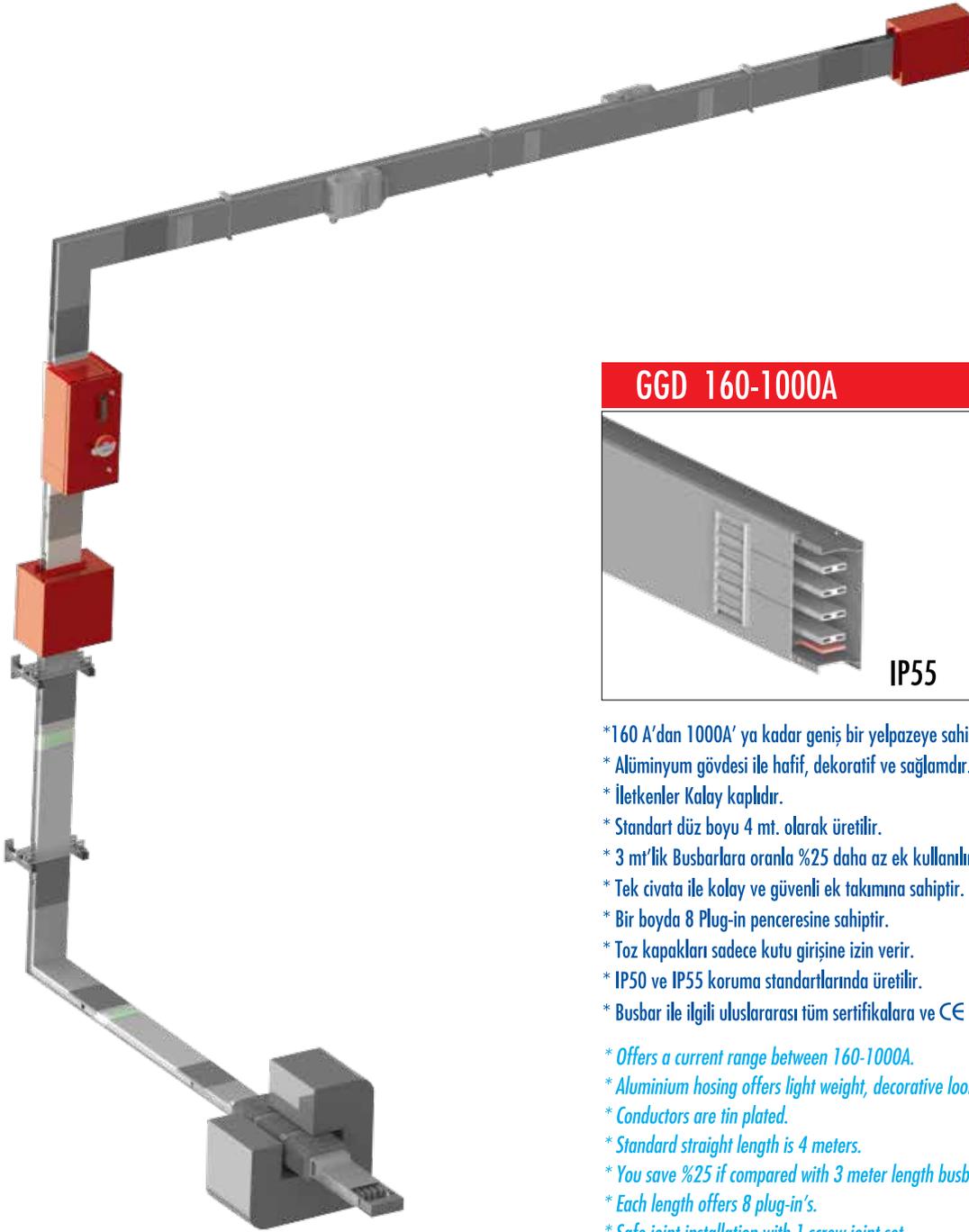
**GGD 500-1000 A**

# GGD



ISO 9001 / ISO 14001  
ISO 45001

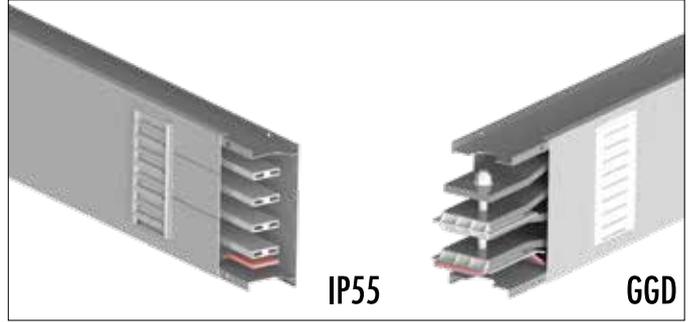




GGD serisi Busbar sistemi, standart 4m. boyunda alüminyum kasa, iki taraflı 8 adet akım alma penceresi, hızlı ve kolay montaja imkan sağlayan tek cıvata konstrüksiyonu ile ekonomik bir tasarımdır. 160 A'den 1000 A'e kadar akım taşıma seçenekleri sunar. Zengin aksesuarları ile projelerinizdeki en büyük yardımcınızdır.

*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 160-1000A



- \*160 A'dan 1000A' ya kadar geniş bir yelpazeye sahiptir.
- \* Alüminyum gövdesi ile hafif, dekoratif ve sağlamdır.
- \* İletkenler Kalay kaplıdır.
- \* Standart düz boyu 4 mt. olarak üretilir.
- \* 3 m'lik Busbarlara oranla %25 daha az ek kullanılır.
- \* Tek cıvata ile kolay ve güvenli ek takımına sahiptir.
- \* Bir boyda 8 Plug-in penceresine sahiptir.
- \* Toz kapakları sadece kutu girişine izin verir.
- \* IP50 ve IP55 koruma standartlarında üretilir.
- \* Busbar ile ilgili uluslararası tüm sertifikalara ve CE belgesine sahiptir.

- \* 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-proff covers allow only box insert.
- \* Are manufactured with IP50 or IP55 protection degree.
- \* Owns all international certifications and CE certification about busbar systems.

## GGD

## GGD-A 160-1000A

İletken olarak kullanılan malzeme alüminyumdur. (EC Grade)  
The conductors used in this serie are aluminium. (EC Grade)

## GGD-C 160-800A

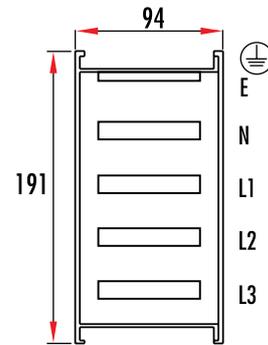
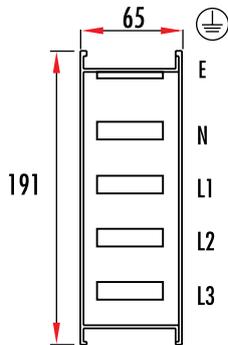
İletken olarak kullanılan malzeme elektrolitik bakırdır. (%99.9 Saflıkta)  
The conductors used in this serie are electrolytic copper (%99.9 purity)

## 3P+N+%50E

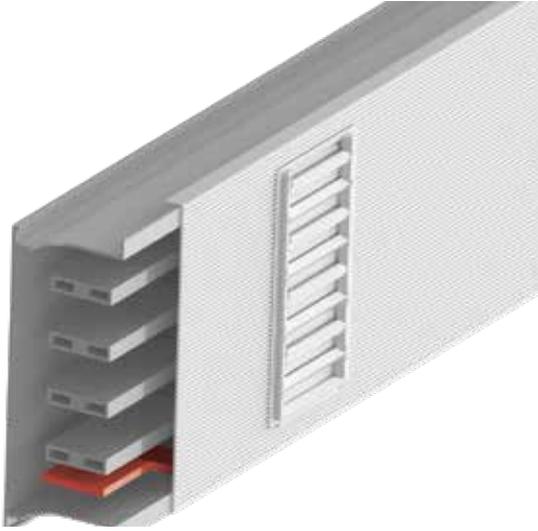
## GGD-A 160-400A

## GGD-C 160-800A

## GGD-A 500-1000A



### STANDART BOY ELEMAN 3P+N+1/2 PE *Standard Length Element 3P+N+1/2 Pe*

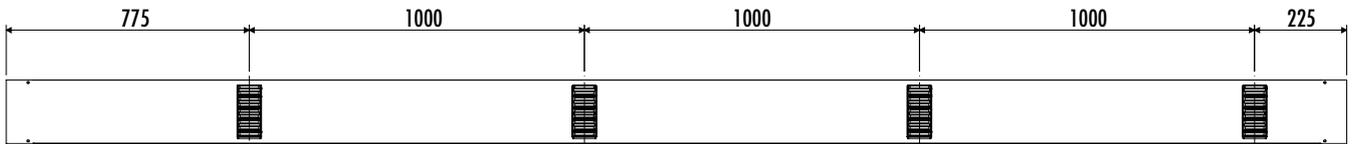
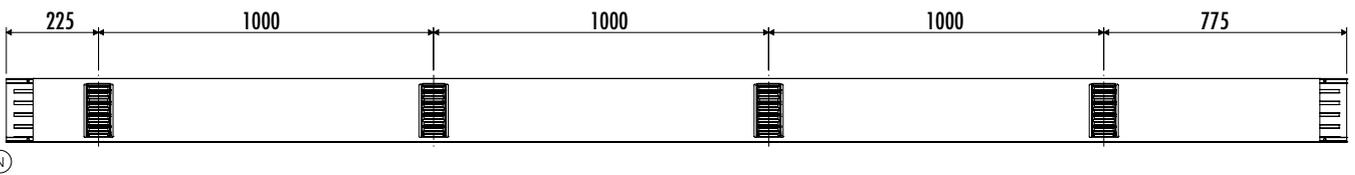
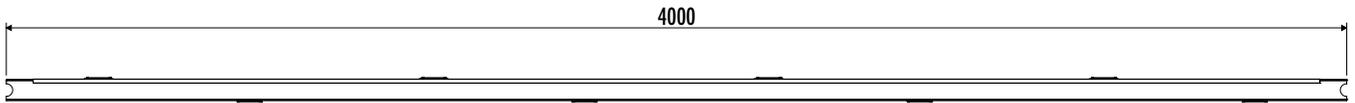


#### GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	L mm	Ağırlık (Kg/m) 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

Sipariş kodu Order code	Stok kodu Stock code	A A	L mm	Ağırlık (Kg/m) 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



\* Standart elemanlar IP 50 Korumaya sahiptir. IP55 Koruma için aksesuar istediğinizi bildiriniz.

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

ARABOY ELEMAN 3P+N+1/2 PE *Non-Standard Length Element 3P+N+1/2 Pe*

Min X = 400 mm  
Max X= 3999 mm

Siparişinizde X.Y boyunu belirtiniz.  
Please inform XY Length when ordering.

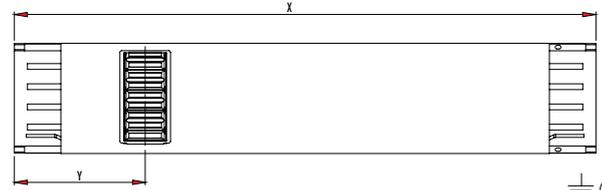
\* Standart elemanlar IP 50 Korumaya sahiptir. IP55 Koruma için aksesuar istediğinizi bildiriniz.  
\* Standard element is IP50. Please inform the accessories for IP55 when ordering

## GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/m) 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

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/m) 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

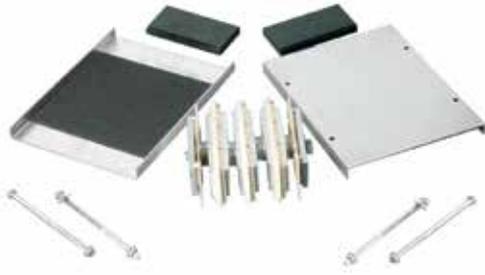


Min X-Y=775 mm    Min Y=225 mm

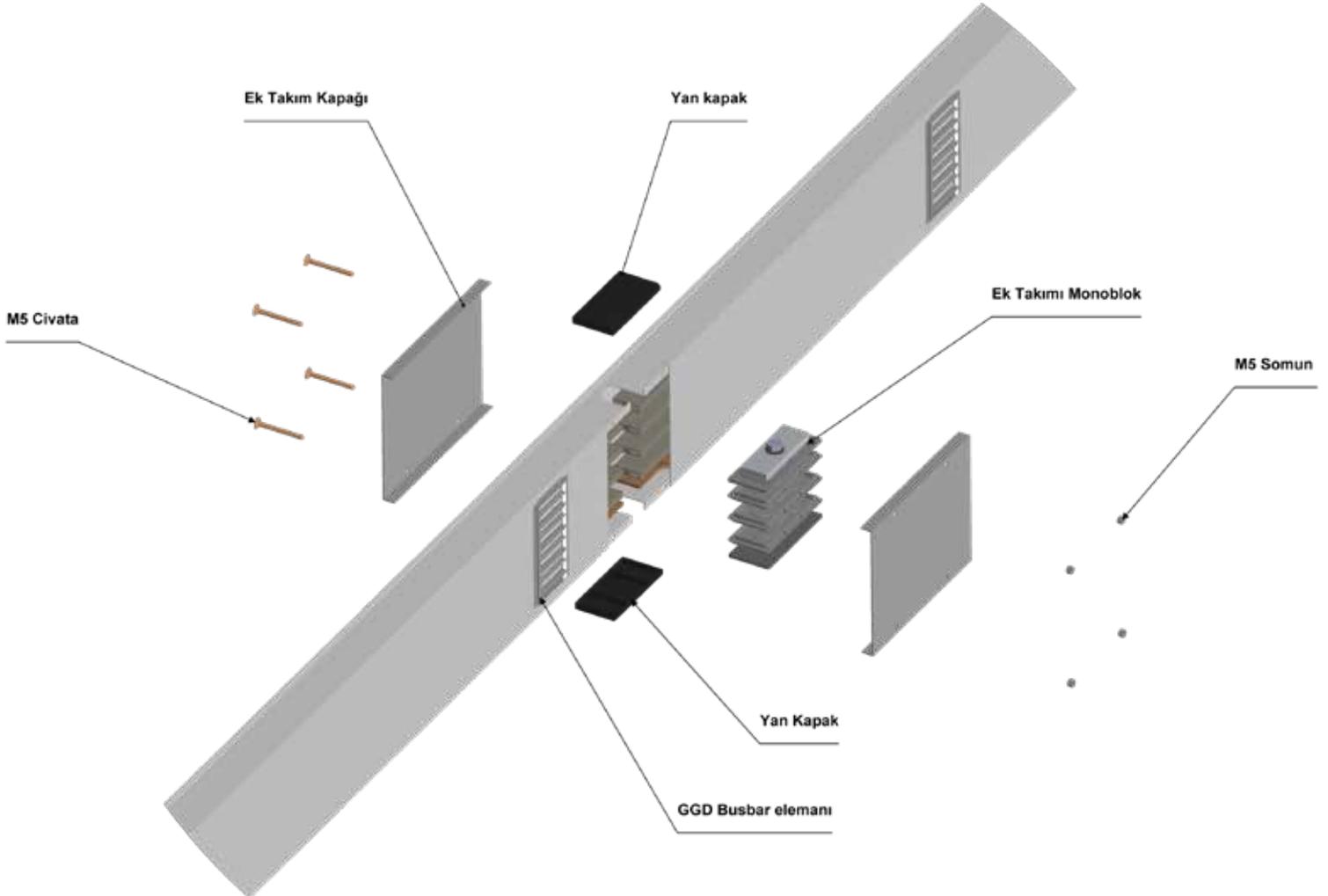
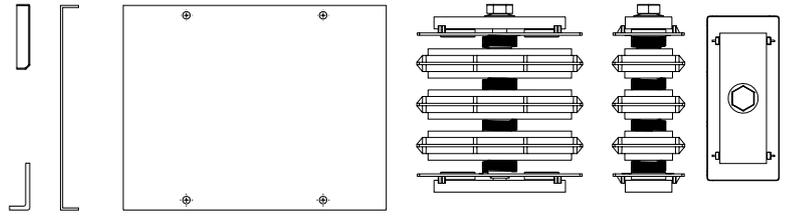


### EK TAKIMI 3P+N+1/2 PE

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



Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 6135	810404005520050	160-400	2.500
GGD-C 6135	820404005510051	160-800	4.500



## 90°YATAY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE 90° Horizontal Elbow Element (Right) 3P+N+1/2 PE

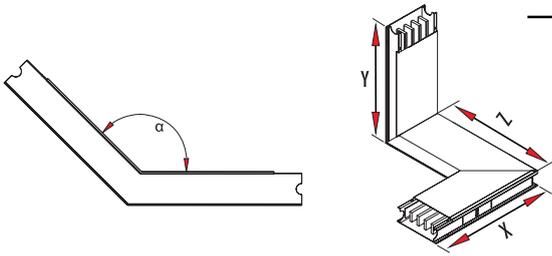
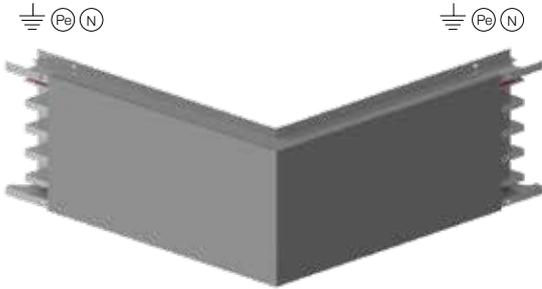
## GGD-A

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

## GGD-C

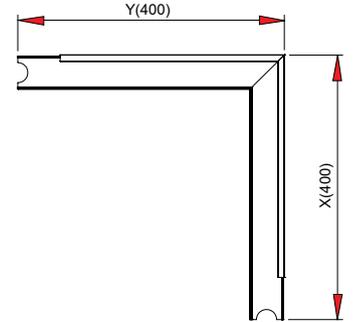
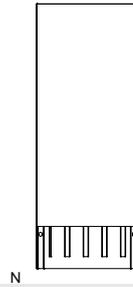
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/m) Weight (Kg/m)
GGD-C 200102	821204005510051	160-800	14.600

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



Siparişinizde özel açılı veya + yatay kombinasyonları için isteğinizi bildiriniz.  
Please inform your request for special angle or vertical + horizontal elbow combinations.

- Min 88° - Max 179°



## 90°YATAY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE 90° Horizontal Elbow Element (Left) 3P+N+1/2 PE

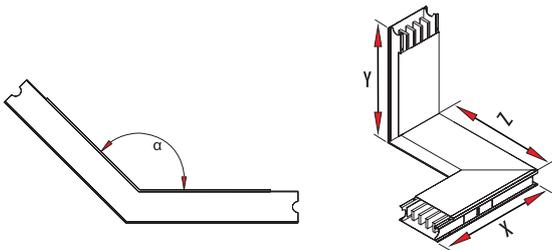
## GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/ad.) Weight (Kg/unit)
GGD-A 200101	811104005520050	160-400	6.200

## GGD-C

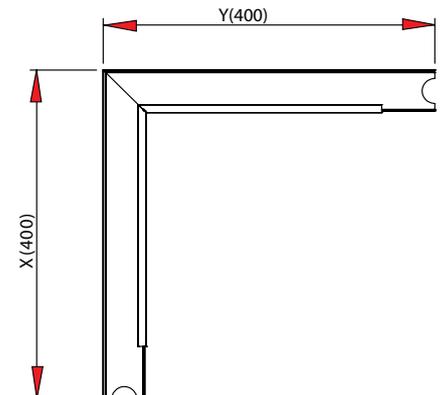
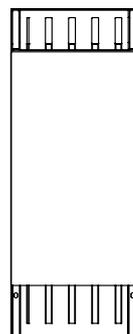
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/ad.) Weight (Kg/unit)
GGD-C 200101	821104005510051	160-800	14.500

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

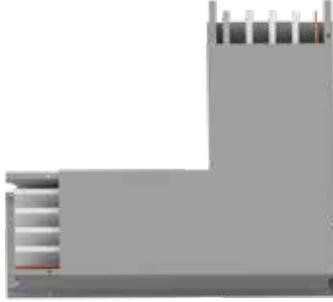


Siparişinizde özel açılı veya + yatay kombinasyonları için isteğinizi bildiriniz.  
Please inform your request for special angle or vertical + horizontal elbow combinations.

- Min 88° - Max 179°



### 90° DİKEY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE 90° Vertical Elbow Element (Right) 3P+N+1/2 PE

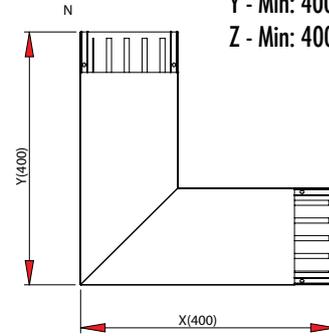
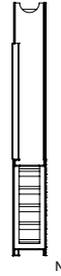
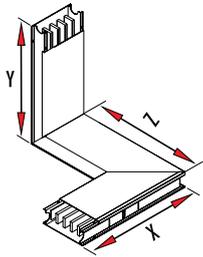
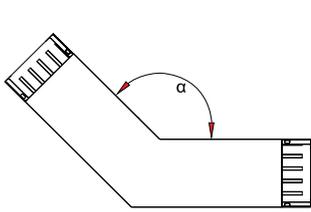


#### GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200104	811404005520050	160-400	6.000

#### GGD-C

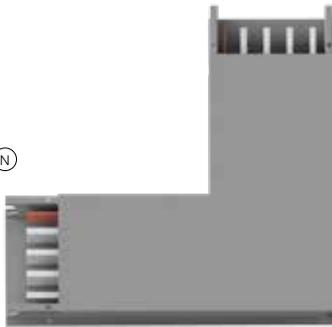
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-C 200104	821404005510051	160-800	13.921



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

Siparişinizde özel açılı veya + yatay kombinasyonları için isteğinizi bildiriniz.  
Please inform your request for special angle or vertical + horizontal elbow combinations.  
- Min 88° - Max 179°

### 90° DİKEY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE 90° Vertical Elbow Element (Left) 3P+N+1/2 PE

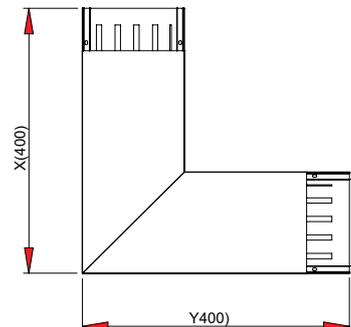
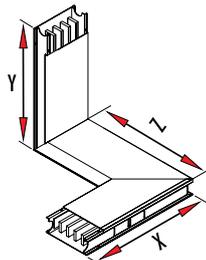
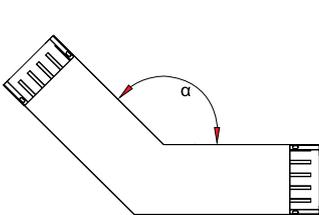


#### GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200103	811304005520050	160-400	6.000

#### GGD-C

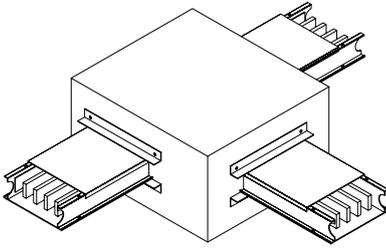
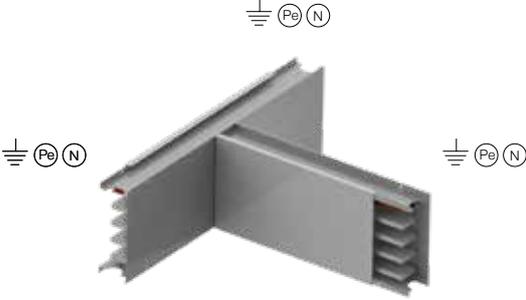
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-C 200103	821304005510051	160-800	13.921



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

Siparişinizde özel açılı veya + yatay kombinasyonları için isteğinizi bildiriniz.  
Please inform your request for special angle or vertical + horizontal elbow combinations.  
- Min 88° - Max 179°

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



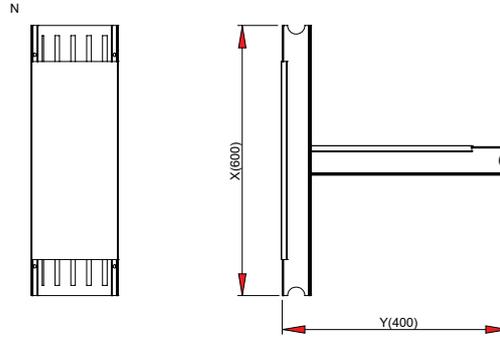
## GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200111	811604005520050	160-400	7.500

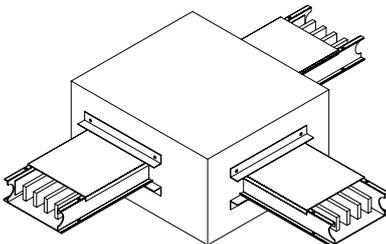
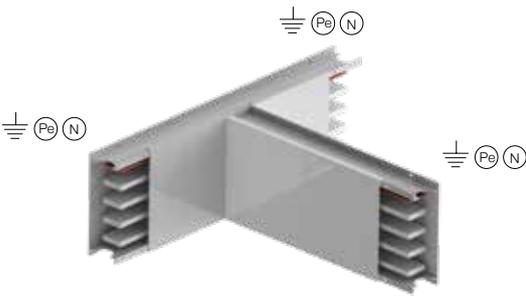
## GGD-C

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) 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 ELEMANI (SOL) 3P+N+1/2 PE T Element (Left) 3P+N+1/2 PE



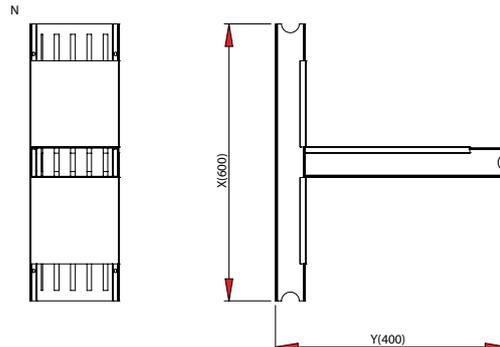
## GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200109	811504005520050	160-400	7.500

## GGD-C

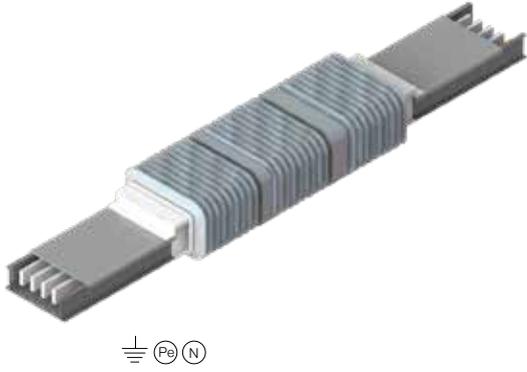
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-C 200109	821504005510051	160-800	18.093

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



### MEKANİK DİLATASYON ELEMANI 3P+N+1/2 PE

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



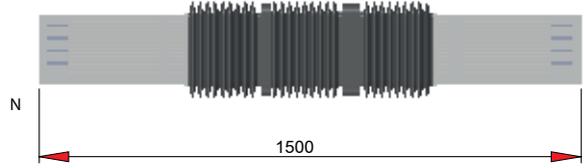
Genleşme elemanı, binalardaki yapı genleşme noktalarında uygulanır.  
The expansion joint element must be inserted where there are structural expansion of the building.

#### GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 204009	8113104005520050	160-400	15.800

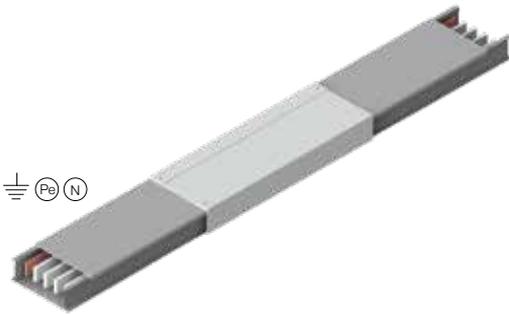
#### GGD-C

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-C 204009	823104005510051	160-800	28.400



### YATAY DİLATASYON ELEMANI 3P+N+1/2 PE

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



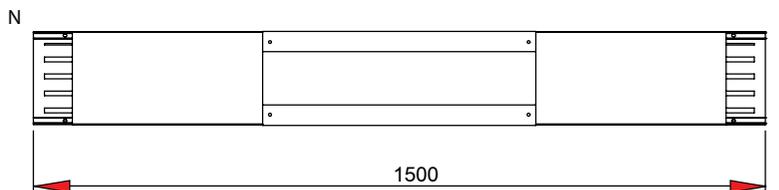
Genleşme elemanı, her 40 mt. de bir uygulanır.  
The expansion joint element must be inserted 1 in long straight line every ~ 40 meter.

#### GGD-A

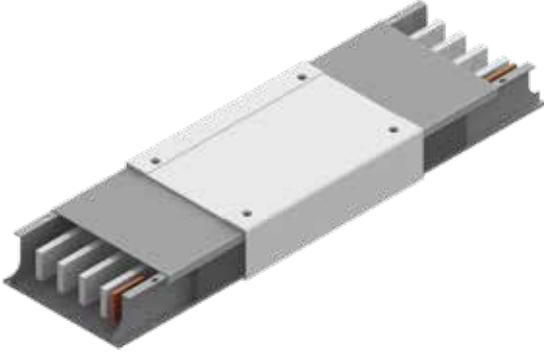
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 204011	811104005520052	160-400	18.400

#### GGD-C

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-C 204011	823104005510053	160-800	31.640



DIKEY DİLATASYON ELEMANI 3P+N+1/2 PE *Vertical Expansion Element 3P+N+1/2 PE*

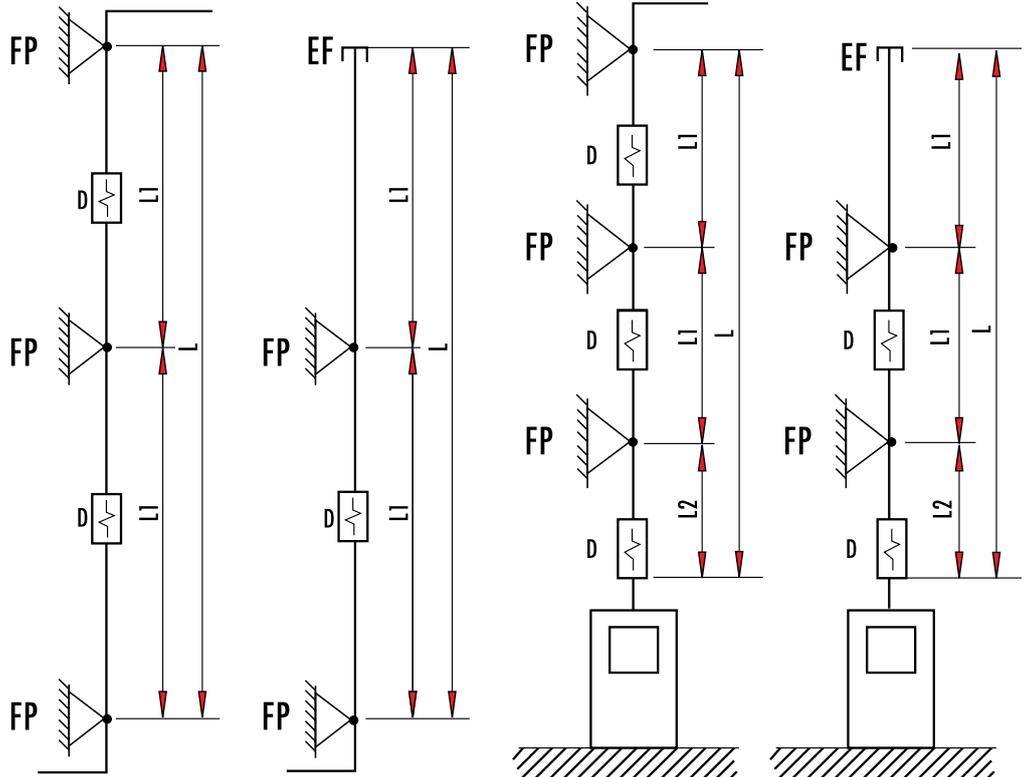
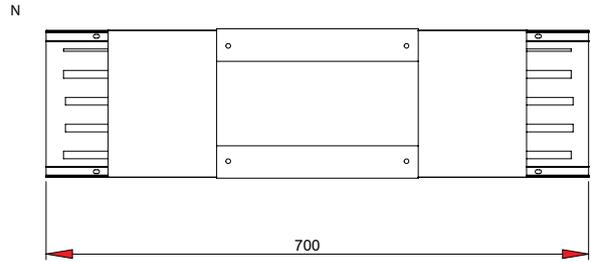


GGD-A

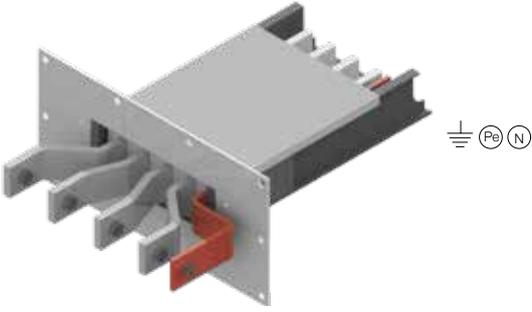
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 204010	8113104005520051	160-400	6.040

GGD-C

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-C 204010	823104005510052	160-800	13.490



### PANO ÜSTÜ MODÜLÜ (SAĞ) 3P+N+1/2 PE Switchboard Feed Unit (Right) 3P+N+1/2 PE



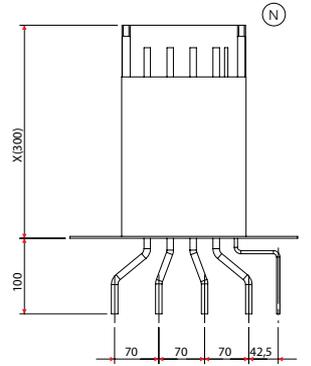
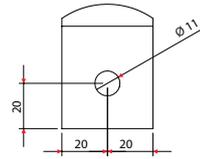
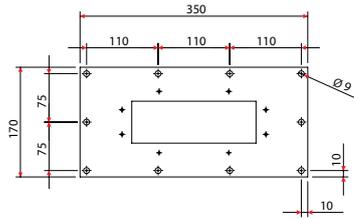
#### GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200030	811804005520050	160-400	18.400

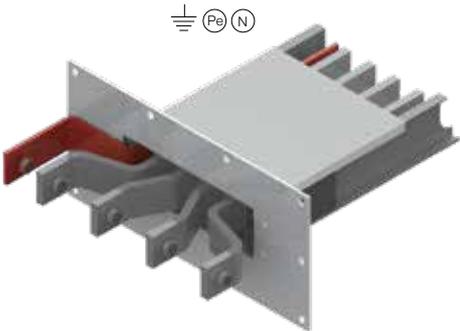
#### GGD-C

Sipariş kodu Order code	Stok kodu Stock code	A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-C 200030	821804005510051	160-800	8.820

X - Min: 300 mm. Max: 700 mm



### PANO ÜSTÜ MODÜLÜ (SOL) 3P+N+1/2 PE Switchboard Feed Unit (Left) 3P+N+1/2 PE



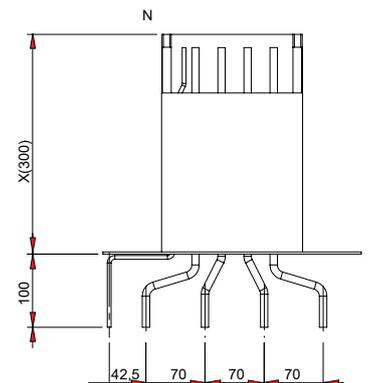
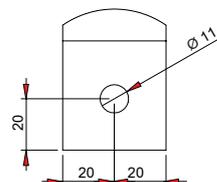
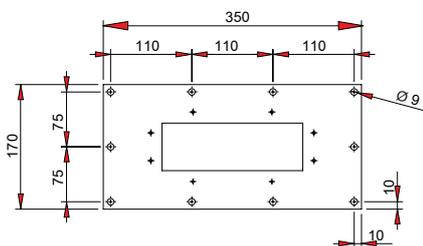
#### GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200032	811704005520050	160-400	4.550

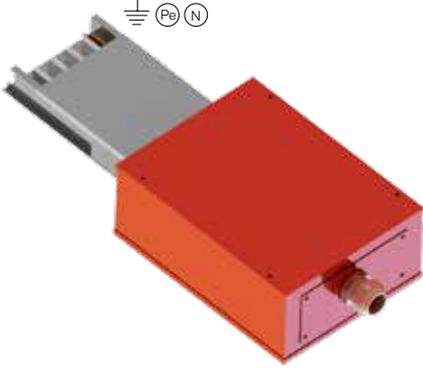
#### GGD-C

Sipariş kodu Order code	Stok kodu Stock code	A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-C 200030	821704005510051	160-800	8.820

X - Min: 300 mm. Max: 700 mm



## BESLEME ELEMANI (SAĞ) 3P+N+1/2 PE Feed Unit (Right) 3P+N+1/2 PE



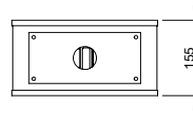
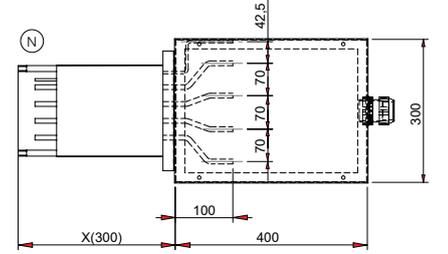
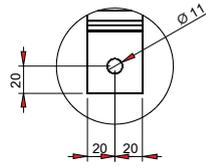
## GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200021	812004005520050	160-400	9.400

## GGD-C

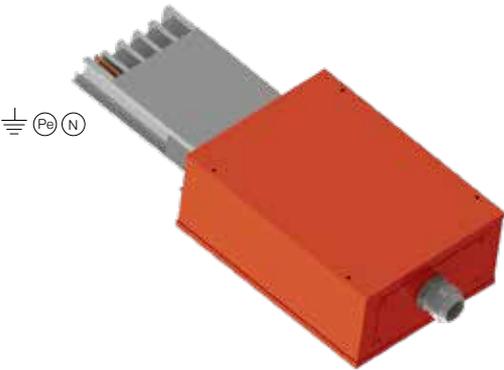
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-C 200021	822004005510051	160-800	13.810

X - Min: 300 mm. Max: 700 mm



Şalterli modeller için siparişlerinizde belirtiniz.  
It is available to use with circuit breaker. please inform this when ordering.  
Besleme kutularının rekorları için lütfen kablo kesiti bildiriniz.  
Please specify cable dimensions for feed unit box's cable glands.

## BESLEME ELEMANI (SOL) 3P+N+1/2 PE Feed Unit (Left) 3P+N+1/2 PE



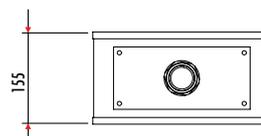
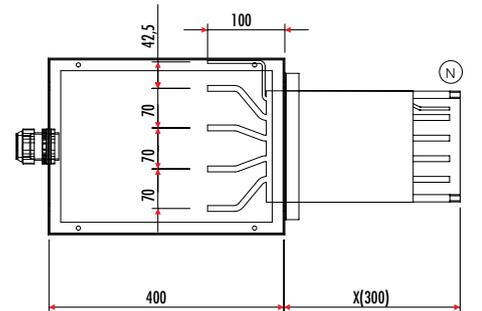
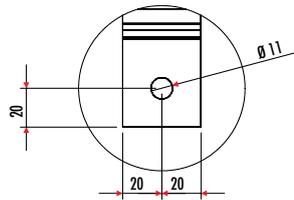
## GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200020	811904005520050	160-400	9.400

## GGD-C

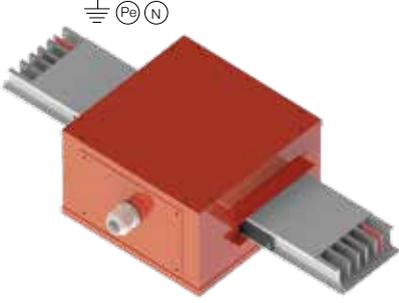
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-C 200020	821904005510051	160-800	13.810

X - Min: 300 mm. Max: 700 mm



Şalterli modeller için siparişlerinizde belirtiniz.  
It is available to use with circuit breaker. please inform this when ordering.  
Besleme kutularının rekorları için lütfen kablo kesiti bildiriniz.  
Please specify cable dimensions for feed unit box's cable glands.

### ORTADAN BESLEME ELEMANI 3P+N+1/2 PE Centre Feed Unit 3P+N+1/2 PE



Şalterli modeller için siparişlerinizde belirtiniz.

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

Besleme kutularının rekorları için lütfen kablo kesiti bildiriniz.

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

#### GGD-A

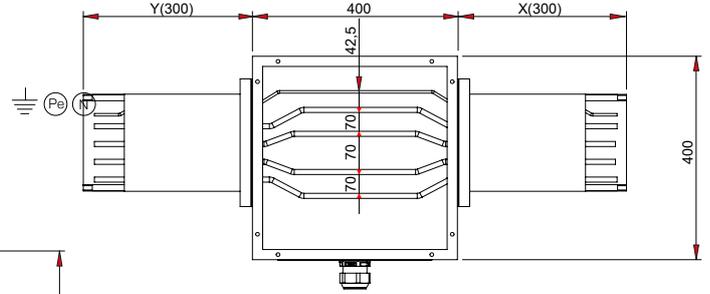
Sipariş kodu Order code	Stok kodu Stock code	A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200024	812104005520050	160-400	17.000

#### GGD-C

Sipariş kodu Order code	Stok kodu Stock code	A	Ağırlık (Kg/Ad.) 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



## 90° YATAY OFSET ELEMANI (SAĞ) 3P+N+1/2 PE 90° Horizontal Offset Element (Right) 3P+N+1/2 PE



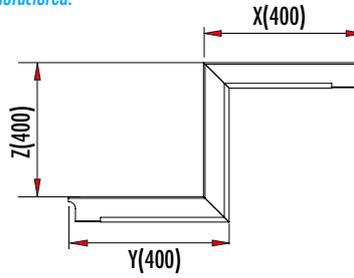
## GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200124	812704005520050	160-400	9.500

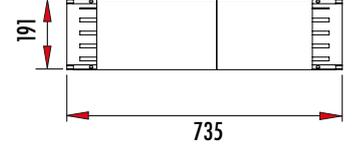
## GGD-C

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-C 200124	822708005510051	160-800	22.560

Siparişte X.Y.Z ölçülerini mm cinsinden veriniz. X.Y.Z standart modeller için tabloda verilmiştir.  
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° YATAY OFSET ELEMANI (SOL) 3P+N+1/2 PE 90° Horizontal Offset Element (Left) 3P+N+1/2 PE



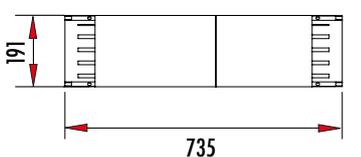
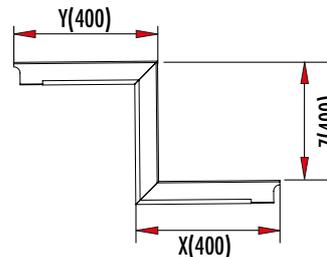
## GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200123	812704005520051	160-400	9.500

## GGD-C

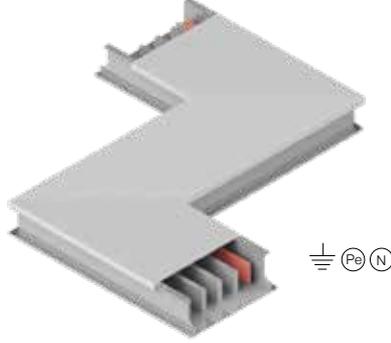
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-C 200123	822708005510052	160-800	22.560

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



Siparişte X.Y.Z ölçülerini mm cinsinden veriniz. X.Y.Z standart modeller için tabloda verilmiştir.  
Standard manufacturing length is given at the table. Requested lengths can be manufactured.  
Please inform the length X.Y.Z when ordering.

### 90° DİKEY OFSET ELEMANI (SAĞ) 3P+N+1/2 PE 90° Vertical Offset Element (Right) 3P+N+1/2 PE



#### GGD-A

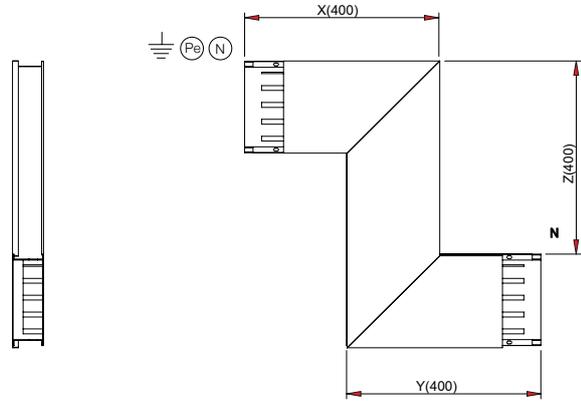
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200126	812804005520050	160-400	9.468

#### GGD-C

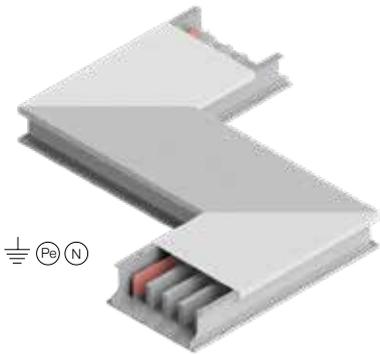
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-C 200126	822808005510051	160-800	20.071

Siparişte X.Y.Z ölçülerini mm cinsinden veriniz. X.Y.Z standart modeller için tabloda verilmiştir. Standard manufacturing length is given in 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° DİKEY OFSET ELEMANI (SOL) 3P+N+1/2 PE 90° Vertical Offset Element (Left) 3P+N+1/2 PE



#### GGD-A

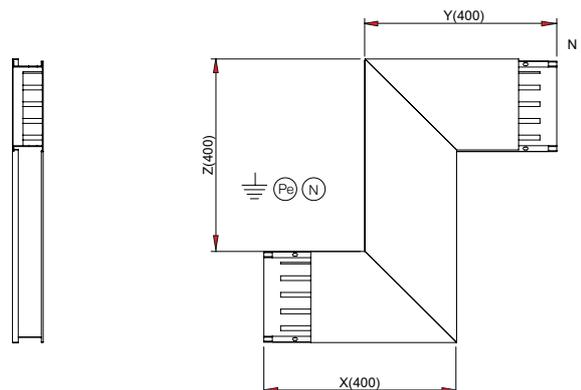
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200125	812804005520051	160-400	9.468

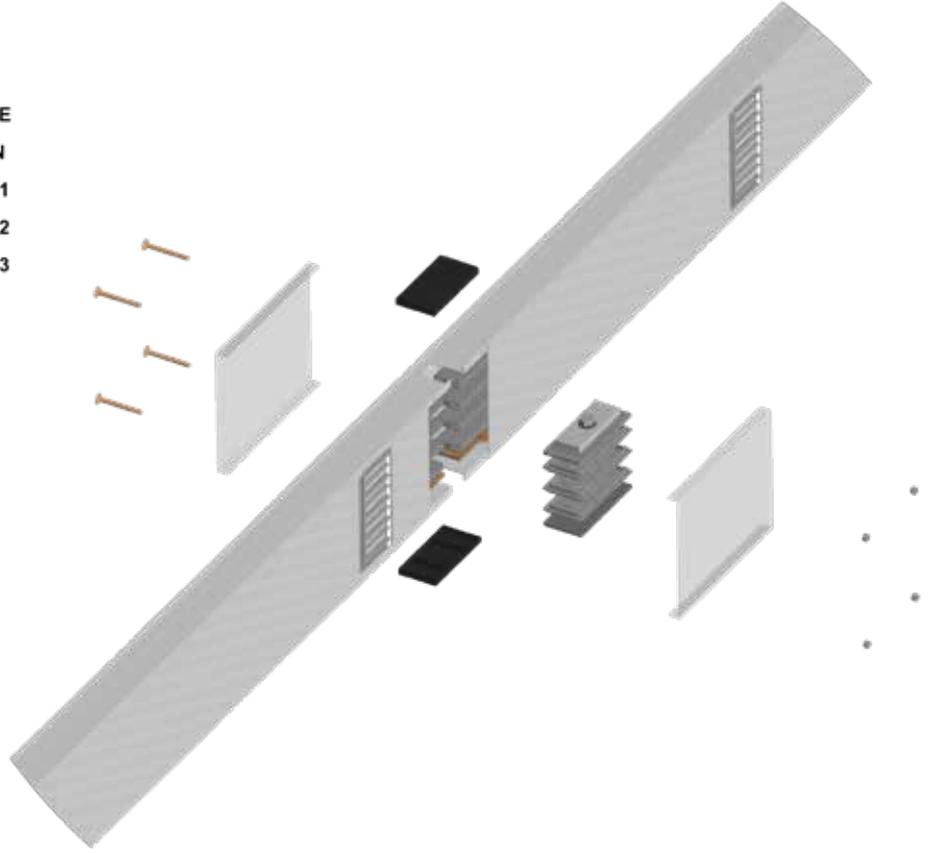
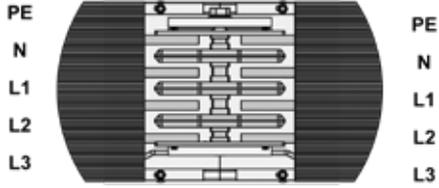
#### GGD-C

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-C 200126	822808005510052	160-800	20.071

Siparişte X.Y.Z ölçülerini mm cinsinden veriniz. X.Y.Z standart modeller için tabloda verilmiştir. Standard manufacturing length is given in 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





1) Ek eleman yan plastiklerini monte ediniz.  
1) Assemble side covers of joint points.



2) Monoblok ek elemanını işlem için hazırlayınız.  
2) Prepare the monoblock joint element to install.



3) Ek elemanı civatasını. Tork anahtarı ile belirtilen değerde sıkınız.  
3) Tighten joint elements screw with torque wrench according to specified value.



4) Arka ve ön ek kapaklarının vida ve somunlarını takınız ve sıkınız.  
4) Assemble screws and nuts of joint covers and tighten.

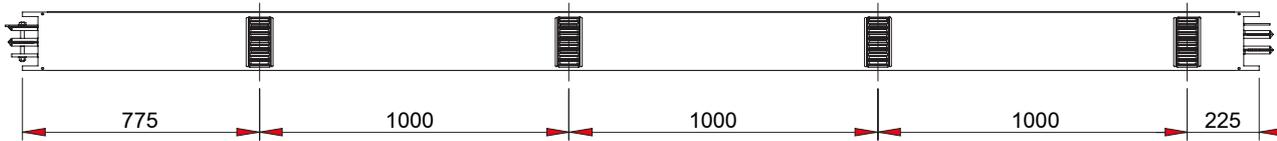
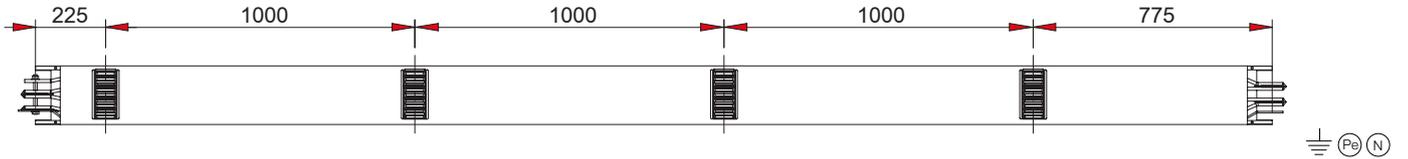
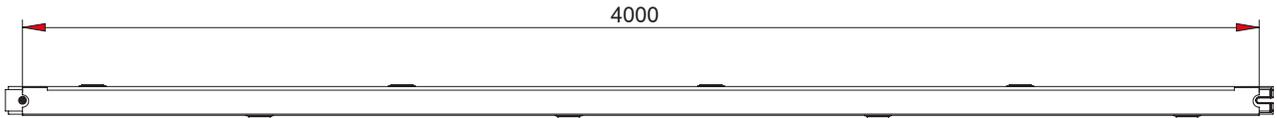
GGDA 160-400A : 30 Nm  
GGDC 160-800A : 60 Nm

### STANDART BOY ELEMAN 3P+N+1/2 PE *Standard Length Element 3P+N+1/2 Pe*



#### GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	L mm	Ağırlık (Kg/m) 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



\* Standart elemanlar IP 50 Korumaya sahiptir. IP55 Koruma için aksesuar istediğinizi bildiriniz.  
\* Standard element is IP50. Please inform the accessories for IP55 when ordering

ARABOY ELEMAN 3P+N+1/2 PE N *Non-Standard Length Element 3P+N+1/2 Pe N*

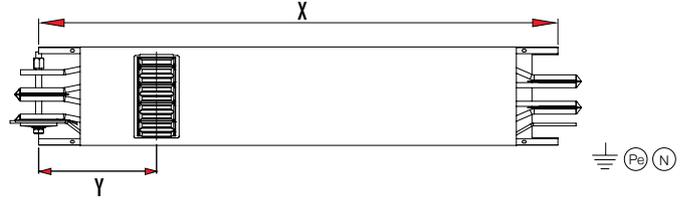
Min X : 400 mm  
Min X : 3999 mm

Siparişte X.Y. boyunu belirtiniz.  
Please inform X.Y length when ordering.

\* Standart elemanlar IP 50 Korumaya sahiptir. IP55 Koruma için aksesuar istediğinizi bildiriniz.  
\* Standard element is IP50. Please inform the accessories for IP55 when ordering

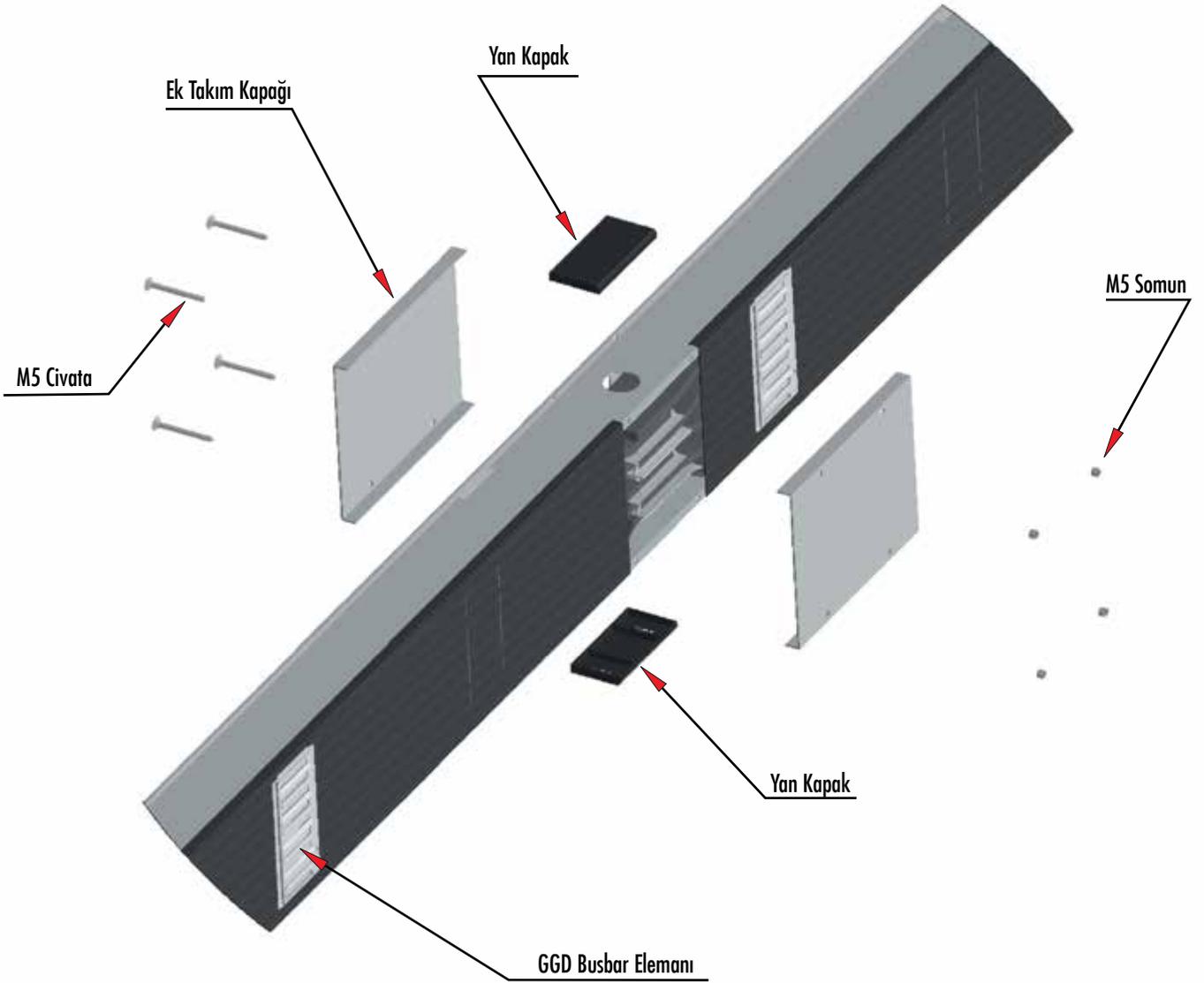
## GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/m) 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

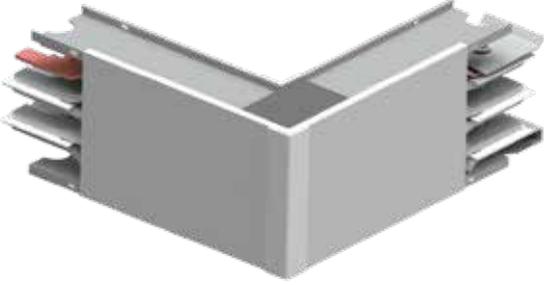


Min X-Y=775 mm    Min Y=225 mm





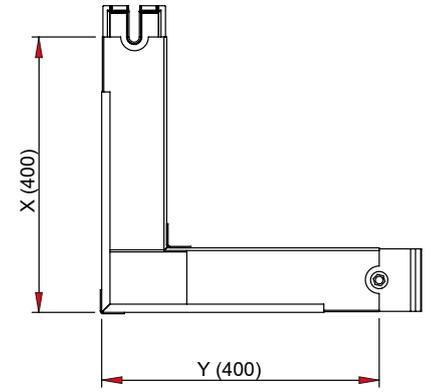
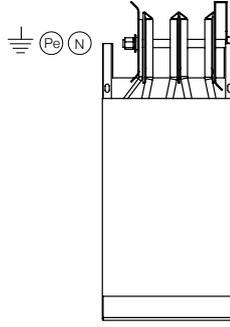
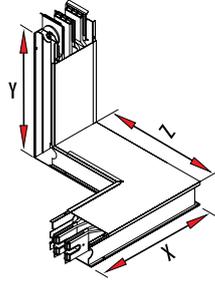
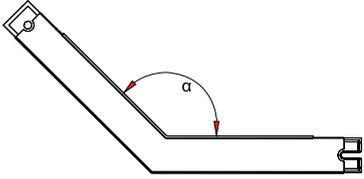
## 90°YATAY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE 90° Horizontal Elbow Element (Right) 3P+N+1/2 PE



## GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) 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



Siparişinizde özel açılı veya dikey + yatay kombinasyonları için istediğinizi bildiriniz.  
Please inform your request for special angle or vertical + horizontal elbow combinations.

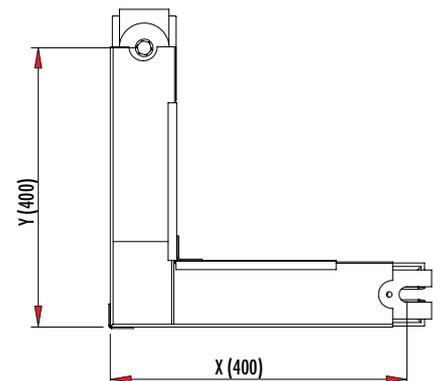
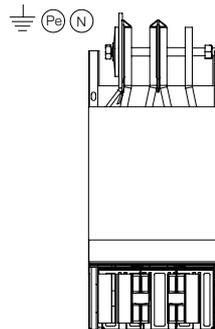
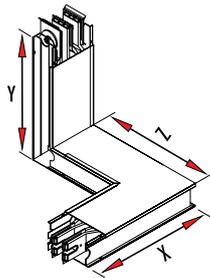
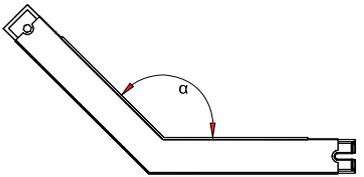
## 90°YATAY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE 90° Horizontal Elbow Element (Left) 3P+N+1/2 PE



## GGD-A

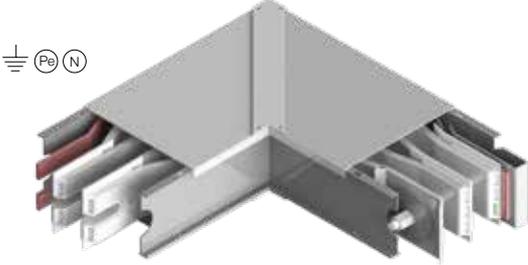
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200105	811108005520050	500-1000	11.900

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



Siparişinizde özel açılı veya dikey + yatay kombinasyonları için istediğinizi bildiriniz.  
Please inform your request for special angle or vertical + horizontal elbow combinations.

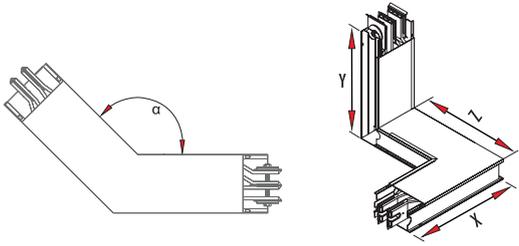
### 90° DİKEY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE 90° Vertical Elbow Element (Right) 3P+N+1/2 PE



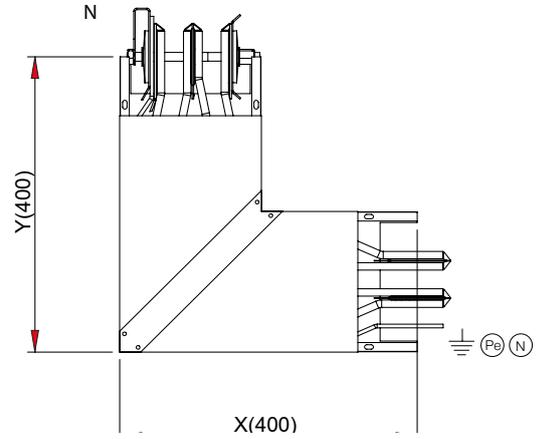
#### GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200108	811408005520050	500-1000	9.100

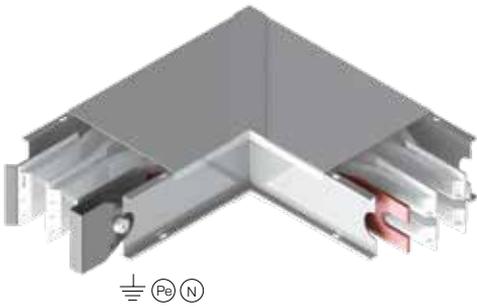
X - Min: 400 mm. Max: 800 mm  
Y - Min: 400 mm. Max: 800 mm  
Z - Min: 400 mm



Siparişinizde özel açılı veya dikey + yatay kombinasyonları için istediğinizi bildiriniz.  
Please inform your request for special angle or vertical + horizontal elbow combinations.



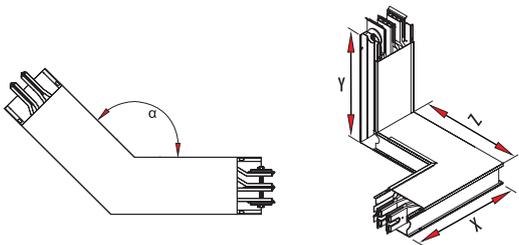
### 90° DİKEY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE 90° Vertical Elbow Element (Left) 3P+N+1/2 PE



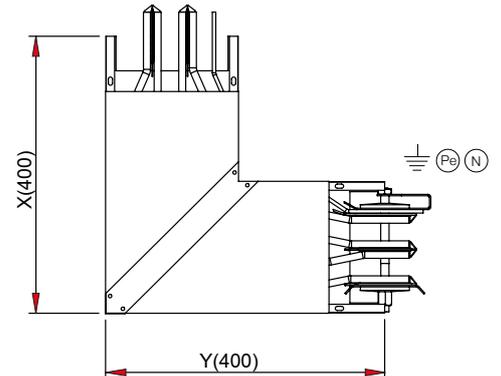
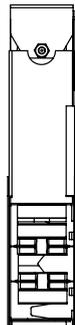
#### GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) 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

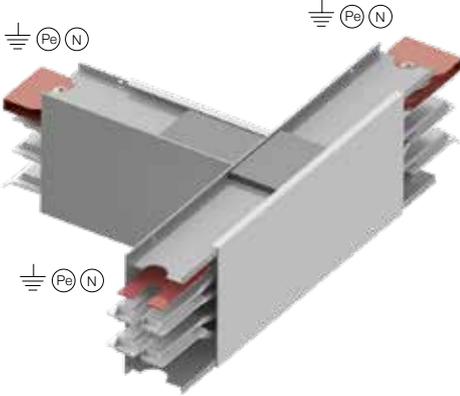


Siparişinizde özel açılı veya dikey + yatay kombinasyonları için istediğinizi bildiriniz.  
Please inform your request for special angle or vertical + horizontal elbow combinations.

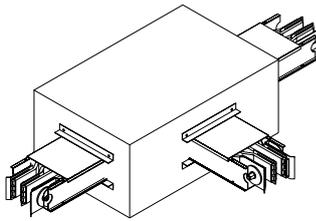


## T ELEMANI (SAĞ) 3P+N+1/2 PE

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



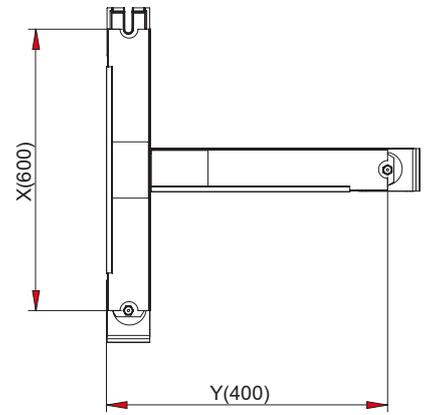
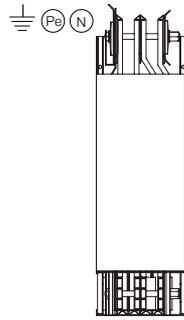
⏚ (Pe) (N)



## GGD-A

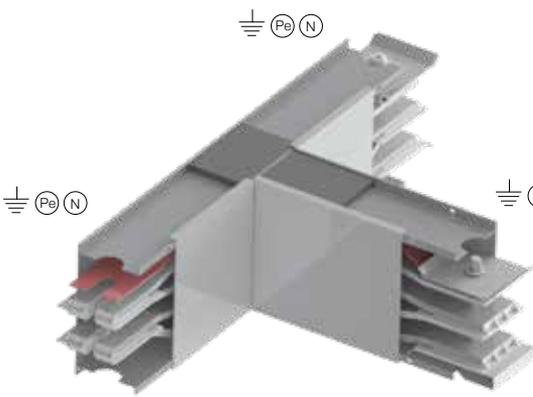
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200112	811608005520050	500-1000	14.200

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

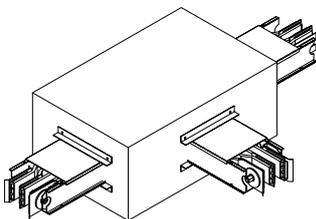


## T ELEMANI (SOL) 3P+N+1/2 PE

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



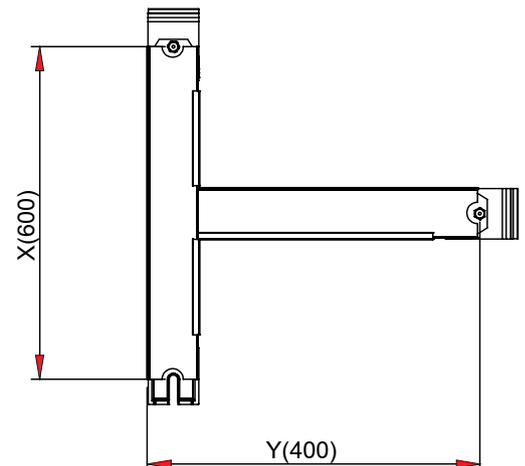
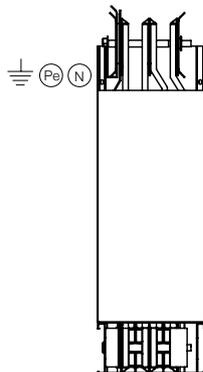
⏚ (Pe) (N)



## GGD-A

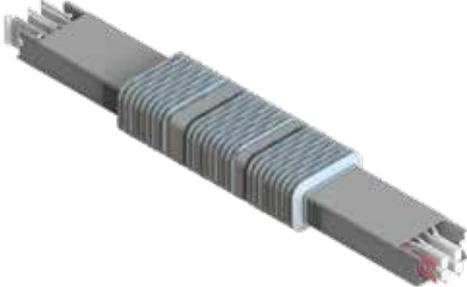
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200110	811508005520050	500-1000	14.200

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



### MEKANİK DİLATASYON ELEMANI 3P+N+1/2 PE

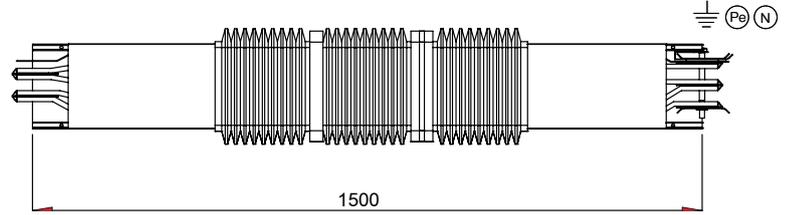
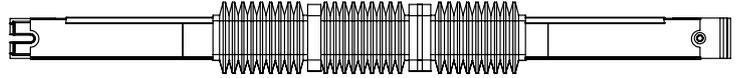
### Mechanical Dilatation Element 3P+N+1/2 PE



Genleşme elemanı, binalardaki yapı genleşme noktalarında uygulanır.  
The expansion joint element must be inserted where there are structural expansion of the building.

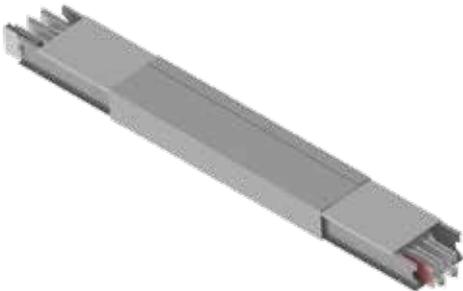
#### GGD-A

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



### YATAY DİLATASYON ELEMANI 3P+N+1/2 PE

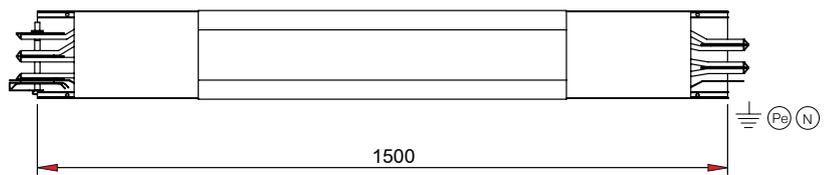
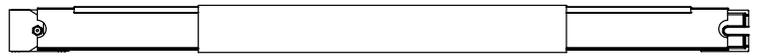
### Horizontal Expansion Element 3P+N+1/2 PE



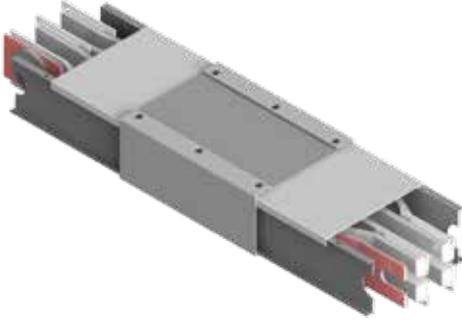
Genleşme elemanı, her 40 mt. de bir uygulanır.  
The expansion joint element must be inserted 1 in long straight line every ~ 40 meter.

#### GGD-A

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

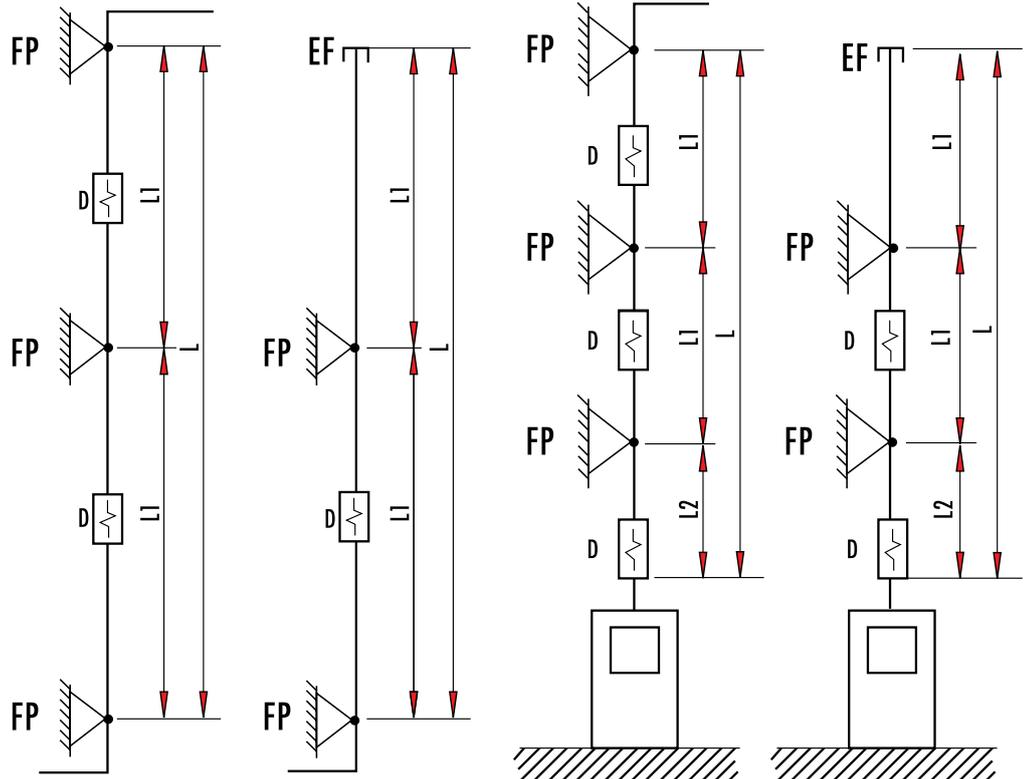
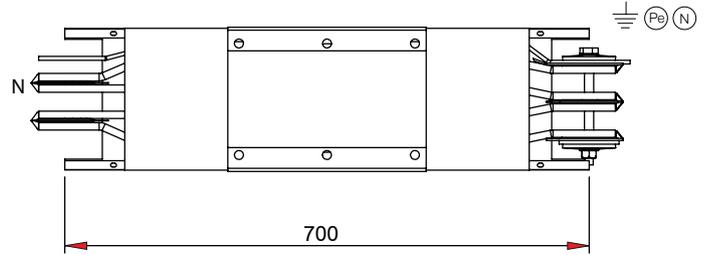


DİKEY DİLATASYON ELEMANI 3P+N+1/2 PE Vertical Expansion Element 3P+N+1/2 PE

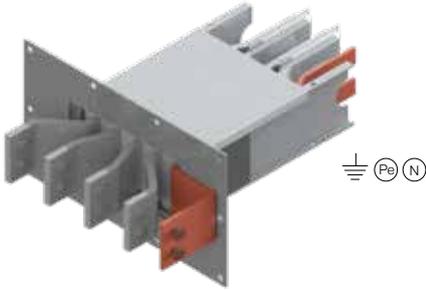


GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 210010	813110005520051	500-1000	11.200



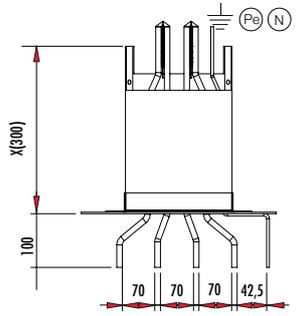
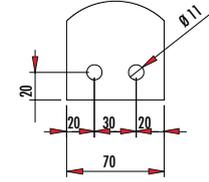
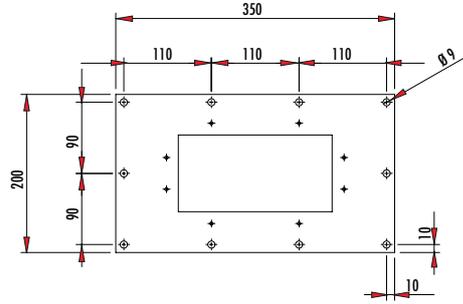
### PANO ÜSTÜ MODÜLÜ (SAĞ) 3P+N+1/2 PE Switchboard Feed Unit (Right) 3P+N+1/2 PE



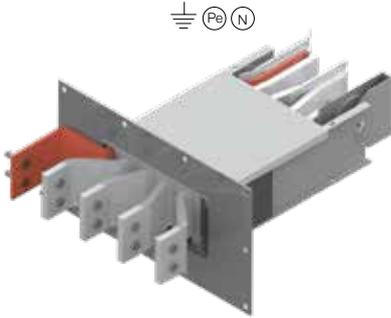
GGD-A

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

X - Min: 300 mm. Max: 700 mm



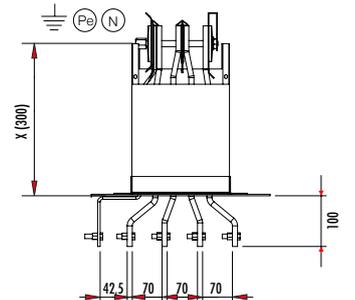
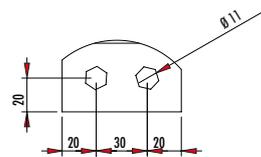
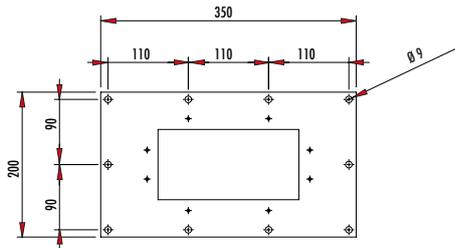
### PANO ÜSTÜ MODÜLÜ (SOL) 3P+N+1/2 PE Switchboard Feed Unit (Left) 3P+N+1/2 PE

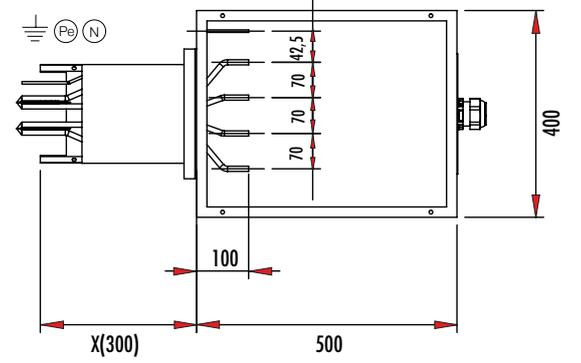
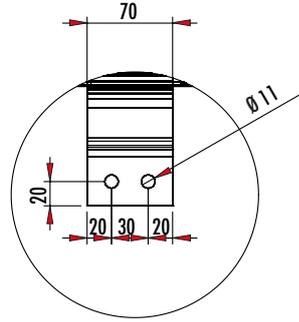
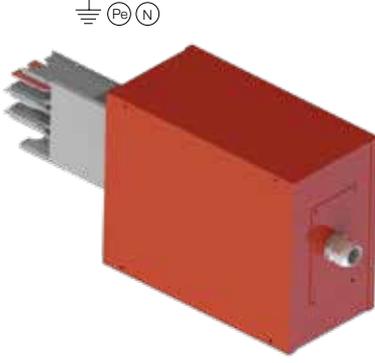


GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200033	811708005520050	500-1000	7.100

X - Min: 300 mm. Max: 700 mm



BESLEME ELEMANI (SAĞ) 3P+N+1/2 PE *Feed Unit (Right) 3P+N+1/2 PE*

## GGD-A

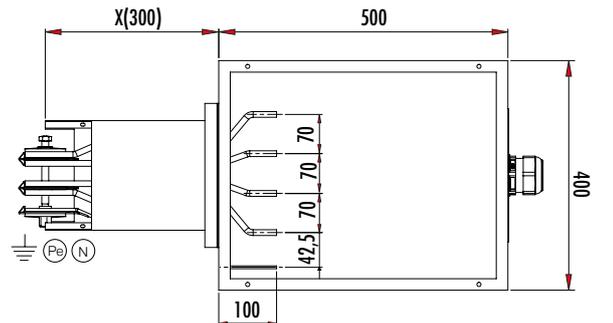
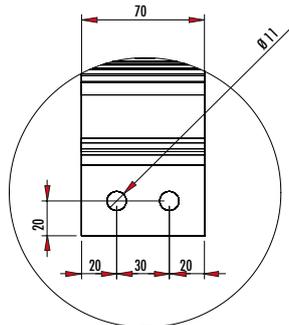
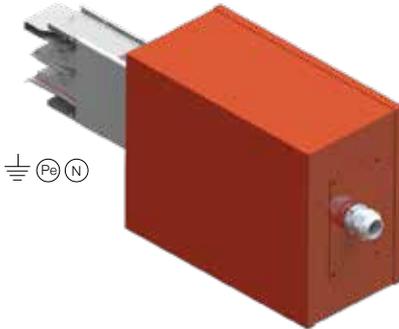
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200023	812008005520050	500-1000	18.700

X - Min: 300 mm. Max: 700 mm

Şalterli modeller için siparişlerinizde belirtiniz.

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

Besleme kutularının rekorları için lütfen kablo kesiti bildiriniz.

*Please specify cable dimensions for feed unit box's cable glands.*BESLEME ELEMANI (SOL) 3P+N+1/2 PE *Feed Unit (Left) 3P+N+1/2 PE*

## GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200022	811908005520050	500	19.480

X - Min: 300 mm. Max: 700 mm

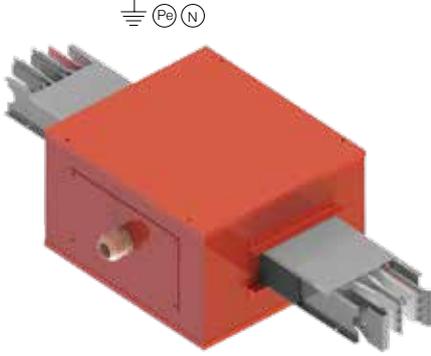
Şalterli modeller için siparişlerinizde belirtiniz.

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

Besleme kutularının rekorları için lütfen kablo kesiti bildiriniz.

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

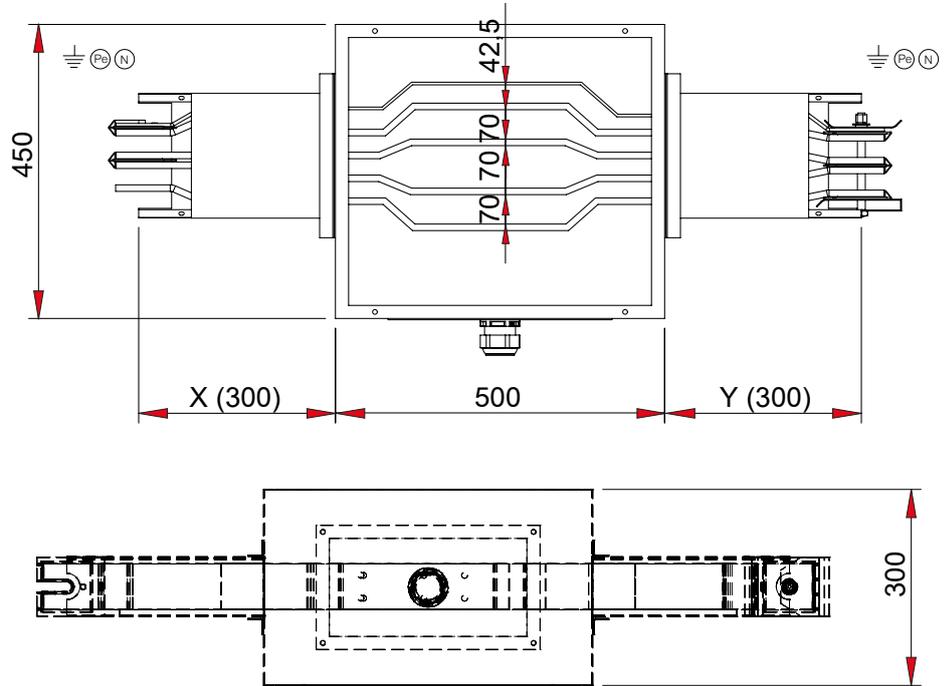
### ORTADAN BESLEME ELEMANI 3P+N+1/2 PE Centre Feed Unit 3P+N+1/2 PE



#### GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) 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



Şalterli modeller için siparişlerinizde belirtiniz.

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

Besleme kutularının rekorları için lütfen kablo kesiti bildiriniz.

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

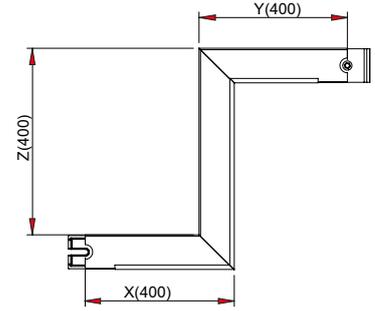
## 90° YATAY OFSET ELEMANI (SAĞ) 3P+N+1/2 PE 90° Horizontal Offset Element (Right) 3P+N+1/2 PE



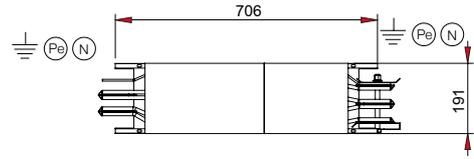
## GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200128	812710005520050	500-1000	18.272

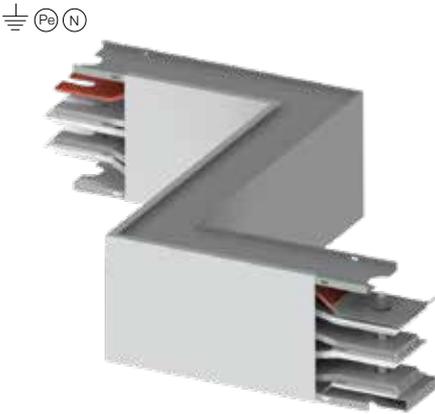
X - Min: 400mm. Max: 700mm  
Y - Min: 400mm. Max: 700mm  
Z - Min: 400mm. Max: 700mm



Siparişte X.Y.Z ölçülerini mm cinsinden veriniz. X.Y.Z standart modeller için tabloda verilmiştir.  
Standard manufacturing length is given at the table. Requested lengths can be manufactured.  
Please inform the length X.Y.Z when ordering.



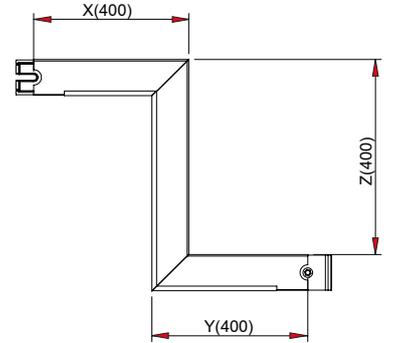
## 90° YATAY OFSET ELEMANI (SOL) 3P+N+1/2 PE 90° Horizontal Offset Element (Left) 3P+N+1/2 PE



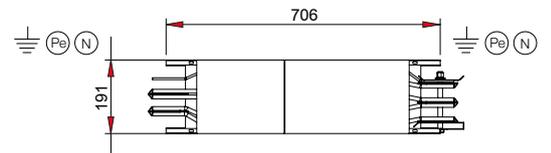
## GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) 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



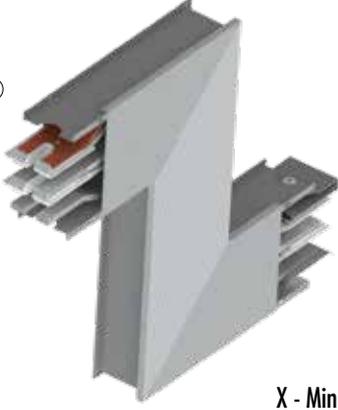
Siparişte X.Y.Z ölçülerini mm cinsinden veriniz. X.Y.Z standart modeller için tabloda verilmiştir.  
Standard manufacturing length is given at the table. Requested lengths can be manufactured.  
Please inform the length X.Y.Z when ordering.



### 90° DİKEY OFSET ELEMANI (SAĞ) 3P+N+1/2 PE 90° Vertical Offset Element (Right) 3P+N+1/2 PE

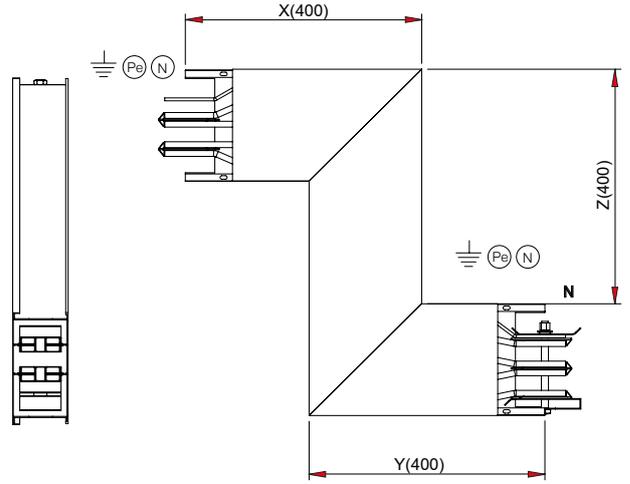
#### GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) 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

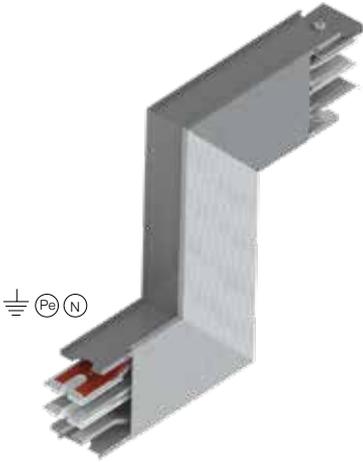
Siparişte X.Y.Z ölçülerini mm cinsinden veriniz. X.Y.Z standart modeller için tabloda verilmiştir.  
Standard manufacturing length is given at the table. Requested lengths can be manufactured.  
Please inform the length X.Y.Z when ordering.



### 90° DİKEY OFSET ELEMANI (SOL) 3P+N+1/2 PE 90° Vertical Offset Element (Left) 3P+N+1/2 PE

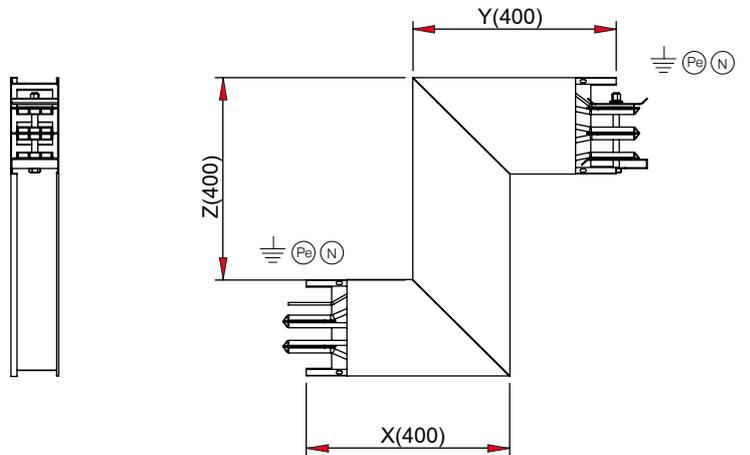
#### GGD-A

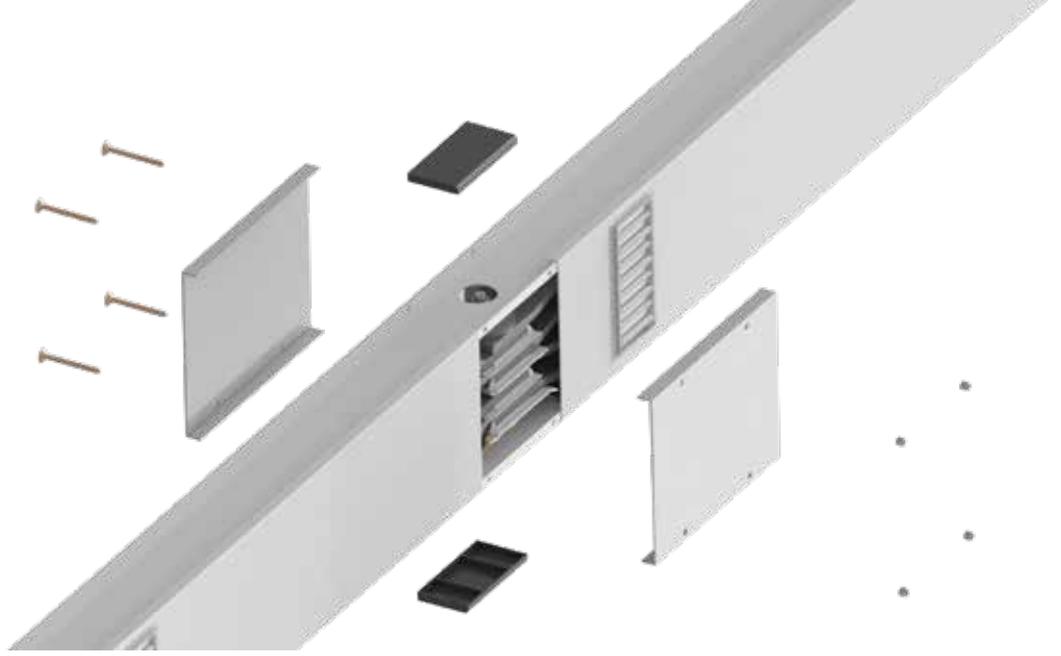
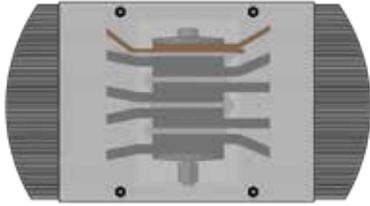
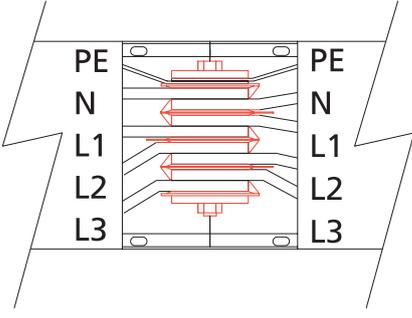
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 200129	812810005520051	500-1000	15.710



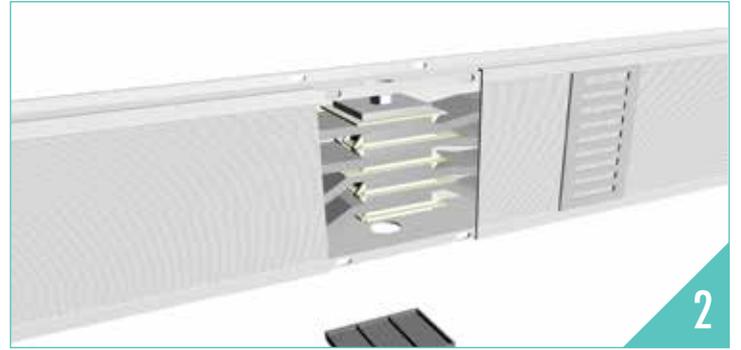
X - Min: 400mm. Max: 700mm  
Y - Min: 400mm. Max: 700mm  
Z - Min: 400mm. Max: 700mm

Siparişte X.Y.Z ölçülerini mm cinsinden veriniz. X.Y.Z standart modeller için tabloda verilmiştir.  
Standard manufacturing length is given at the table. Requested lengths can be manufactured.  
Please inform the length X.Y.Z when ordering.

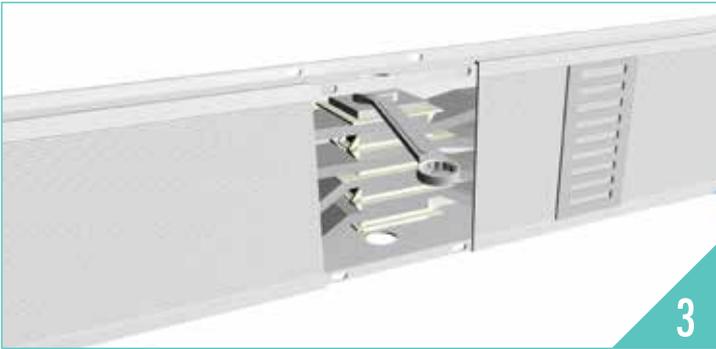




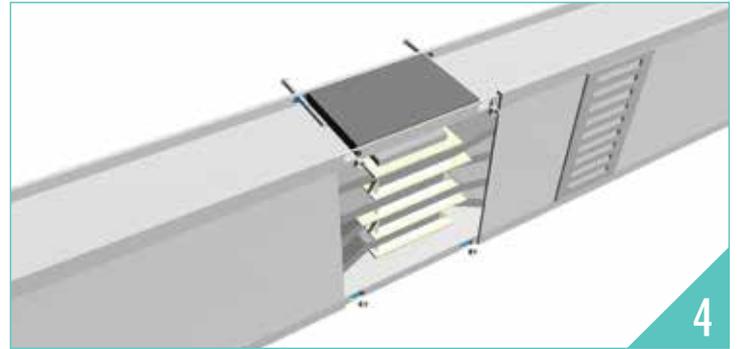
1) Busbar elemanları. Ek noktalarını birleştirerek yerleştiriniz.  
1) Position Busbar element with uniting joint points.



2) Ek eleman yan plastiklerini kanallara takınız.  
2) Install the side plastics to the joint points.



3) Ek elemanı civatasını. Tork anahtarı ile belirtilen değerde sıkınız.  
3) Tighten joint elements screw with torque wrench according to specified value.

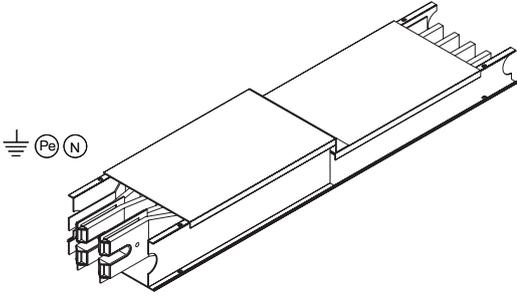


4) Arka ve ön ek kapaklarının vida ve somunlarını takınız ve sıkınız.  
4) Assemble screws and nuts of joint covers and tighten.

GGDA 500-1000A : 90Nm

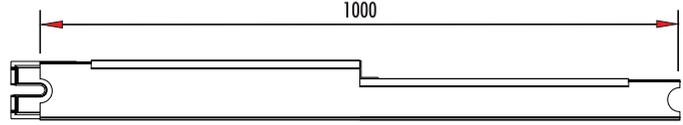
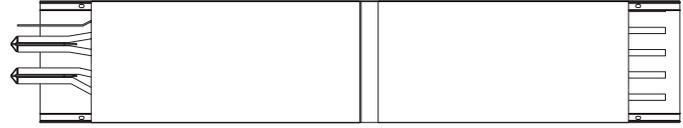
### REDÜKSİYON ELEMANI 3P+N+1/2 PE

### Reduction Element 3P+N+1/2 PE



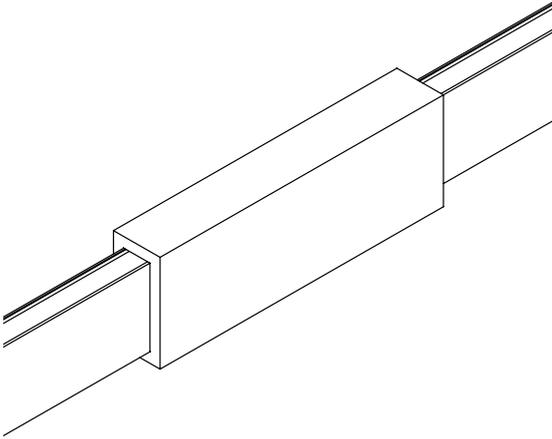
#### GGD-A

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A RED01	812904005520050	400-1000	11.748
GGD-A RED02	812910005520050	400-1000	11.748



### YANGIN BARIYERİ 3P+N+1/2 PE

### Fire Barrier 3P+N+1/2 PE



#### GGD-A

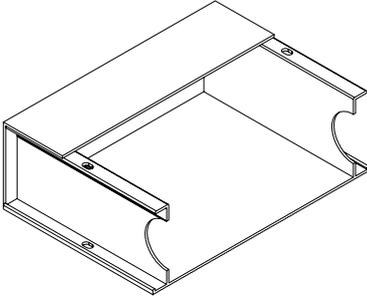
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-A 204006	812204005520050	160-400	9.000
GGD-A 210006	812210005520050	500-1000	9.000

#### GGD-C

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD-C 208006	822208005510051	160-800	9.000

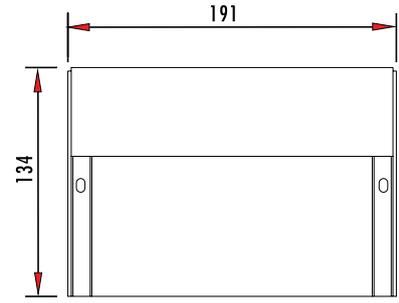
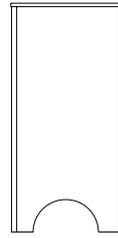
## SONLANDIRMA ELEMANI

## End Cap



GGDC 160-800 A Busbar için GGD 100028 sipariş kodlu sonlandırma elemanı kullanılır.  
For GGDC 160-180 A Busbar, end cap use with GGD 100028 order code.

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg./Ad.) Weight (Kg./Unit)
GGD 100028	830704005520000	160-400	0.450
GGD 100029	830710005520000	500-1000	0.530

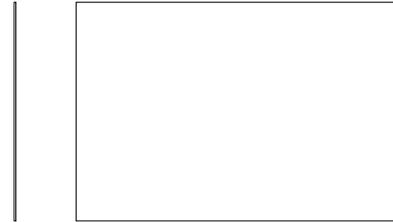


## GGD IP 55 YAPIŞKAN ELEMANI

## GGD IP 55 Sticky Plug Outlet Cover



Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg./Ad.) Weight (Kg./Unit)
GGD 500002	830810005550000	160-1000	0.001

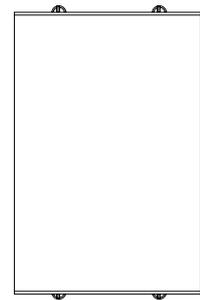
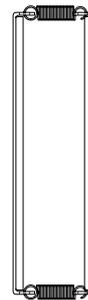


## GGD IP 55 KAPAK

## GGD IP 55 Outlet Cover



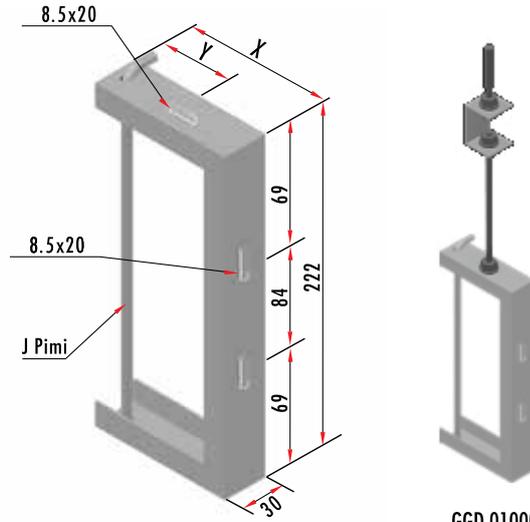
Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg./Ad.) Weight (Kg./Unit)
GGD 500003	830910005520000	160-1000	0.500



### GGD ASKI ELEMANI *GGD fixing hanger*

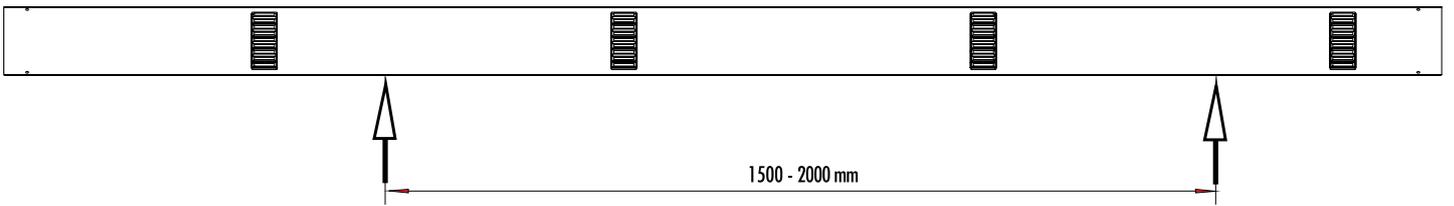
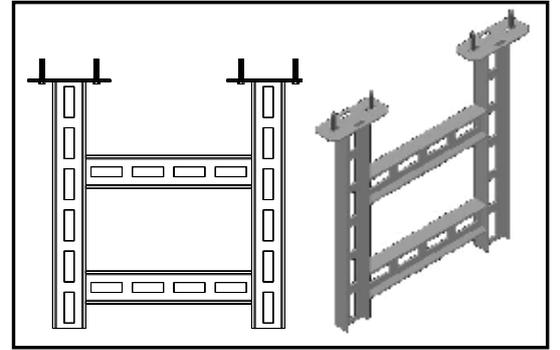
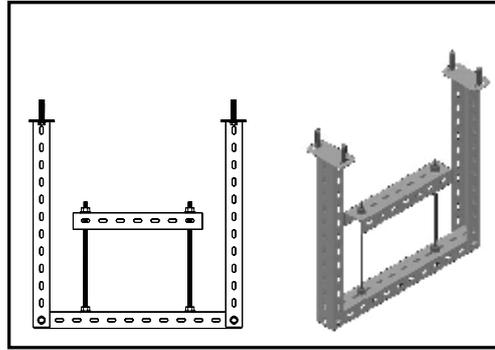
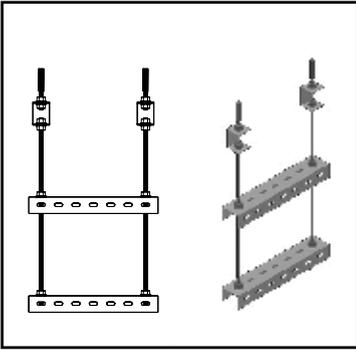


Sipariş kodu Order code	Stok kodu Stock code	A A	X mm	Y mm	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD 010001	830504000060003	160-400	97	50	0.450
GGD 020001	830510000060003	500-1000	126	65	0.530
GGD 010004	830504000060004	160-400	-	-	0.830
GGD 010005	830510000060004	500-1000	-	-	0.880

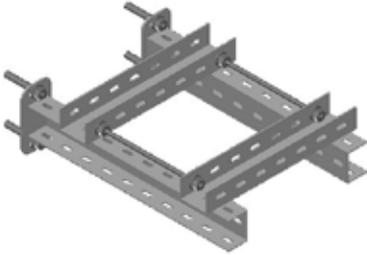


GGD 010004  
GGD 010005

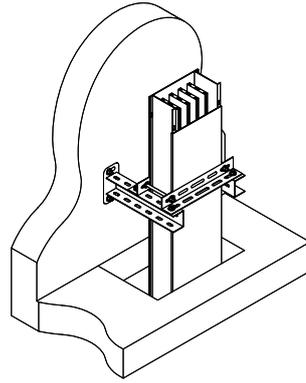
GGDC 160-800 A Busbar için GGD 010001 sipariş kodlu sonlandırma elemanı kullanılır.  
For GGDC 160-180 A Busbar, end cap use with GGD 010001 order code.



Tavsiye edilen askı destek mesafesidir.

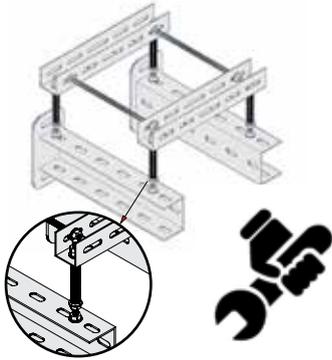
GGD DİKEY SİSTEMLER İÇİN ASKI ELEMANI *GGD hanger for vertical riser*

Sipariş kodu Order code	Stok kodu Stock code	A A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD 010002	831004005560003	160-400	5.350
GGD 010003	831010005560003	500-1000	5.750



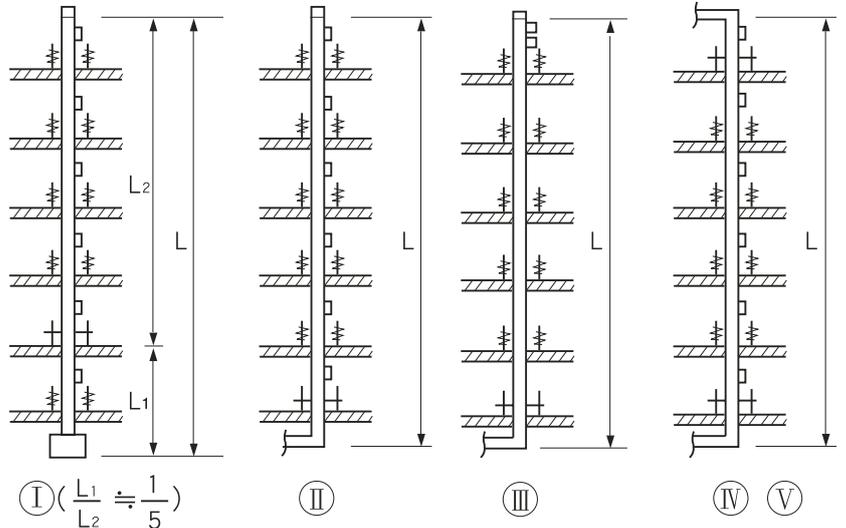
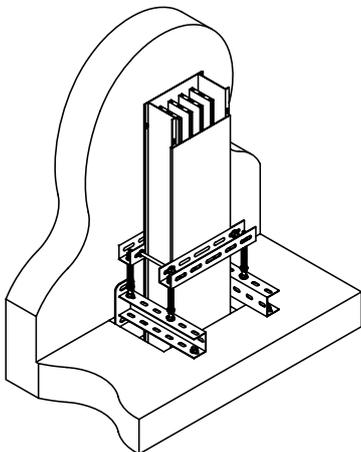
Dikey sistemler için genel bağlantı askılarına ek olarak her dikey çıkışta ve 150 kg. Busbar için 1 adet yaylı askı kullanılmalıdır.

*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.*



Ayar somunu ile yükü dengeleyiniz.  
Balance the weight by adjustment nut.

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

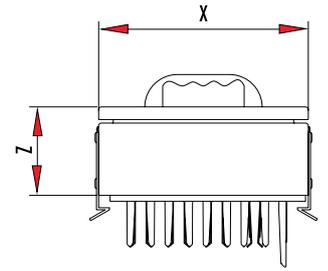
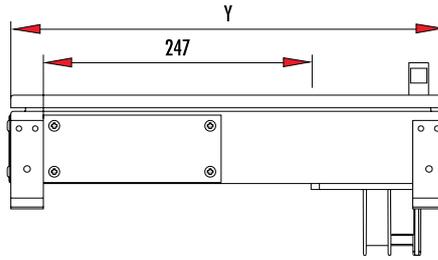
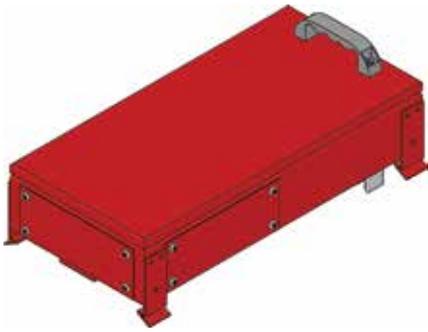
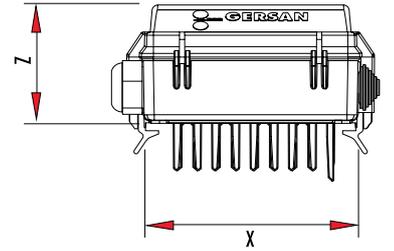
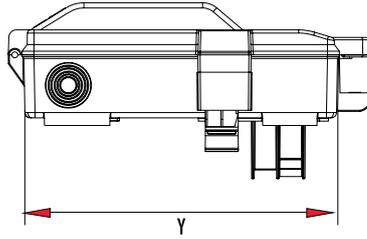


### ÇIKIŞ KUTUSU NH TİP

### Tap-off Box NH Type



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

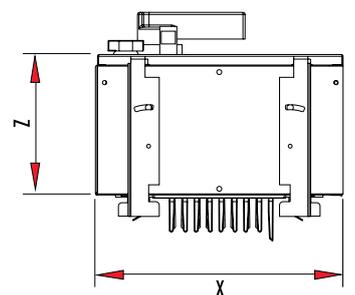
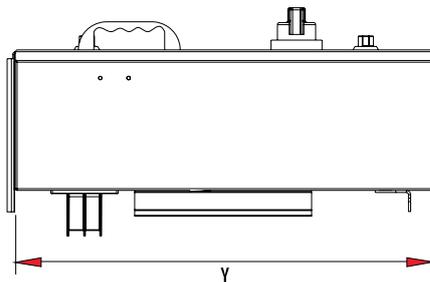


### ÇIKIŞ KUTUSU SYK TİP

### Tap-off Box SPB Type

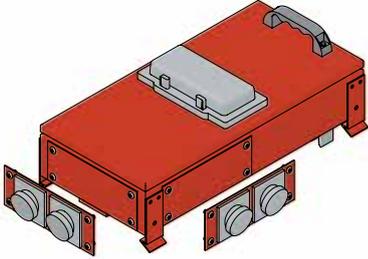


Sipariş kodu Order code	Stok kodu Stock code	A A	X mm	Y mm	Z mm	Ağırlık (Kg./Ad.) Weight (Kg./Unit)
GGD 401160	832401605510051	160	350	600	200	17.940
GGD 402500	832402505510051	250	400	700	300	25.250
GGD 404000	832404005510051	400	400	700	300	27.000
GGD 406300	832406305510051	630	450	700	300	33.179

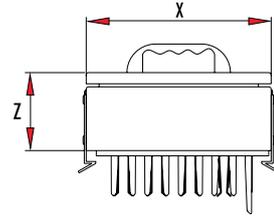
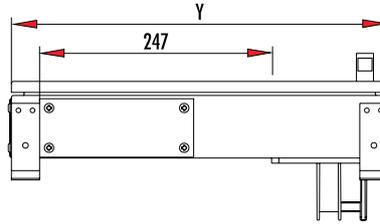
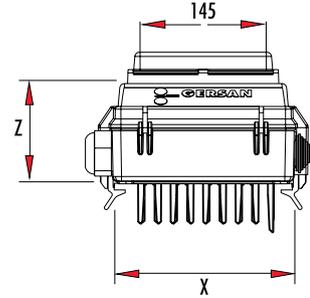
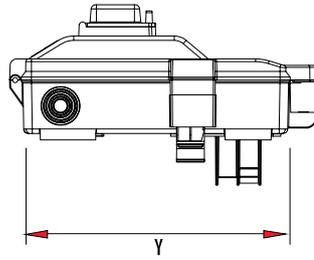
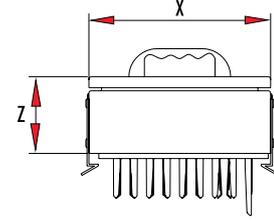
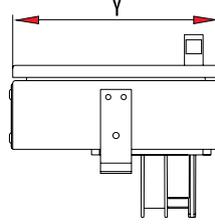


Ağırlıklar MCB, NH ve MCCB hariç olarak verilmiştir.  
The weights are not including MCB, NH, and MCCB's

## ÇIKIŞ KUTUSU MCB TİPİ Tap-Off Box MCB Type



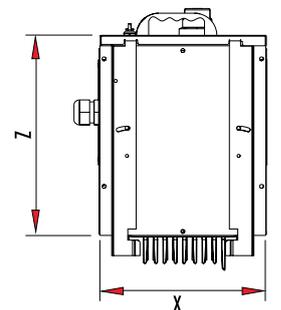
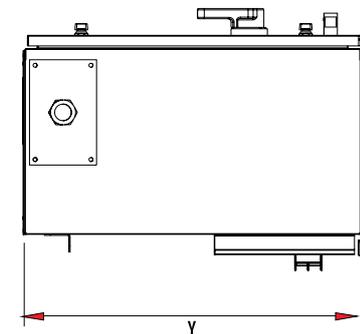
Sipariş kodu Order code	Stok kodu Stock code	A A	X mm	Y mm	Z mm	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GGD 400630	832600635510050	25-40	193	175	92	2.770
GGD 400632	832600635510051	25-80	191	300	97	2.163
GGD 401252	832601255510051	25-125	193	400	82	5.757



## ÇIKIŞ KUTUSU MCCB VERSİYONLU Tap-off Box MCCB Version



Sipariş kodu Order code	Stok kodu Stock code	A A	X mm	Y mm	Z mm	Ağırlık (Kg/Ad.) 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



Ağırlıklar MCB, NH ve MCCB hariç olarak verilmiştir.  
The weights are not including MCB, NH, and MCCB's

### GGDA Teknik Bilgiler GGDA Technical Details

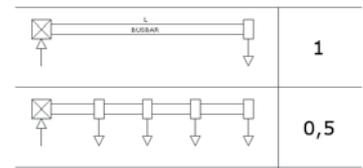
		GGDA 160A	GGDA 250A	GGDA 315A	GGDA 400A	GGDA 500A	GGDA 630A	GGDA 800A	GGDA 1000A	
Nominal Akım Rated Current	$I_n$	160	250	315	400	500	630	800	1000	A
Uygulama Gerilimi Operational Voltage	$U_e$	1000								V
İzolasyon Gerilim Insulation Voltage	$U_i$	1000								V
Frekans Frequency	$f$	50-60 (AC/DC)								Hz
Faz Kesiti Cross Section of Phases	$S_F$	144	144	144	144	500	500	600	700	mm <sup>2</sup>
Nötr Kesiti Cross Section of Neutral	$S_N$	144	144	144	144	500	500	600	700	mm <sup>2</sup>
Toprak Barasının Kesiti Cross Section of Earth Bar	$S_H$	200	200	200	200	350	350	350	350	mm <sup>2</sup>
Alüminyum Kasa Kesiti Cross Section of Aluminium Housing	$S_{PE}$	1083	1083	1083	1083	1200	1200	1200	1200	mm <sup>2</sup>
Faz Kısa Kasa Devre Akımı (1sn) Short-Circuit Current of Phases (1s)	$I_{cw}$	13	13	13	13	25	25	35	40	kA
Faz Pik Akımı Peak Current of Phases	$I_{pk}$	26	26	26	26	53	53	80	90	kA
Nötr Kısa Devre Akımı (1sn) Short-Circuit Current of Neutral (1s)	$I_{cw}$	8	8	8	8	15	15	22	24	kA
Nötr Pik Akımı Peak Current of Neutral	$I_{pk}$	14	16	14	14	30	30	44	50	kA
Faz Direnci 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
Faz Direnci Phase Resistance	$R_1$	0.338	0.338	0.338	0.338	0.098	0.098	0.080	0.045	mΩ/m
Faz Reaktansı Phase Reactance	$X_1$	0.094	0.094	0.094	0.094	0.014	0.014	0.010	0.007	mΩ/m
Faz Empedansı Phase Impedance	$Z_1$	0.351	0.351	0.351	0.351	0.099	0.099	0.080	0.046	mΩ/m

Konsantre Yük ile Gerilim Düşümü Hesabı  
Voltage drop with concentrated end line load

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

$\Delta V$	Gerilim Düşümü (V)	Voltage drop
$\alpha$	Yük Dağılım Katsayısı	Current distribution factor
$L$	Hat Uzunluğu (m)	Duct length
$I_n$	Hat akımı (A)	Use current (A)
$R$	Karakteristik Direnç (m/m)	Phase resistance per unit length of the Busbar
$X_l$	Endüktif Reaktans (m/m)	Phase reactance per unit length of the Busbar
$\cos \varphi$	Güç Faktörü	Average load power factor

Yük Dağılım Katsayısı ( $\alpha$ )  
Load Distribution Constant ( $\alpha$ )



## GGDC Teknik Bilgiler GGDC Technical Details

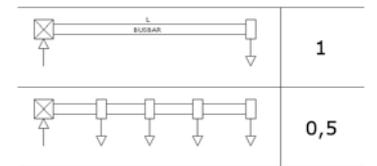
		GGDC 160A	GGDC 250A	GGDC 315A	GGDC 400A	GGDC 500A	GGDC 630A	GGDC 800A	
Nominal Akım Rated Current	$I_n$	160	250	315	400	500	630	800	A
Uygulama Gerilimi Operational Voltage	$U_e$	1000							V
İzolasyon Gerilim Insulation Voltage	$U_i$	1000							V
Frekans Frequency	$f$	50-60 (AC/DC)							Hz
Faz Kesiti Cross Section of Phases	$S_F$	144	144	144	144	250	250	400	mm <sup>2</sup>
Nötr Kesiti Cross Section of Neutral	$S_N$	144	144	144	144	250	250	400	mm <sup>2</sup>
Toprak Barasının Kesiti Cross Section of Earth Bar	$S_H$	200	200	200	200	200	200	200	mm <sup>2</sup>
Alüminyum Kasa Kesiti Cross Section of Aluminium Housing	$S_{PE}$	1083	1083	1083	1083	1083	1083	1083	mm <sup>2</sup>
Faz Kısa Kasa Devre Akımı (1sn) Short-Circuit Current of Phases (1s)	$I_{cw}$	20	20	20	20	25	25	35	kA
Faz Pik Akımı Peak Current of Phases	$I_{pk}$	44	44	44	44	53	53	74	kA
Nötr Kısa Devre Akımı (1sn) Short-Circuit Current of Neutral (1s)	$I_{cw}$	12	12	12	12	15	15	22	kA
Nötr Pik Akımı Peak Current of Neutral	$I_{pk}$	24	24	24	24	30	30	44	kA
Faz Direnci Phase Resistance (T=20° C)	$R_{20}$	0.105	0.105	0.105	0.105	0.072	0.072	0.045	mΩ/m
Faz Direnci Phase Resistance	$R_1$	0.138	0.138	0.138	0.138	0.108	0.108	0.068	mΩ/m
Faz Reaktansı Phase Reactance	$X_1$	0.021	0.021	0.021	0.021	0.018	0.018	0.010	mΩ/m
Faz Empedansı Phase Impedance	$Z_1$	0.139	0.139	0.139	0.165	0.136	0.136	0.080	mΩ/m

Konsantre Yük ile Gerilim Düşümü Hesabı  
Voltage drop with concentrated end line load

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

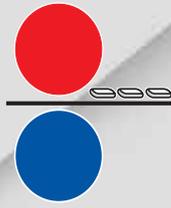
$\Delta V$	Gerilim Düşümü (V)	Voltage drop
$\alpha$	Yük Dağılım Katsayısı	Current distribution factor
$L$	Hat Uzunluğu (m)	Duct length
$I_n$	Hat akımı (A)	Use current (A)
$R$	Karakteristik Direnç (m/m)	Phase resistance per unit length of the Busbar
$X_L$	Endüktif Reaktans (m/m)	Phase reactance per unit length of the Busbar
$\cos\varphi$	Güç Faktörü	Average load power factor

Yük Dağılım Katsayısı ( $\alpha$ )  
Load Distribution Constant ( $\alpha$ )





since  
**1980**



# GERSAN

ELEKTRİK TİC. ve SAN. A.Ş.



# GS-SÜPER COMPACT

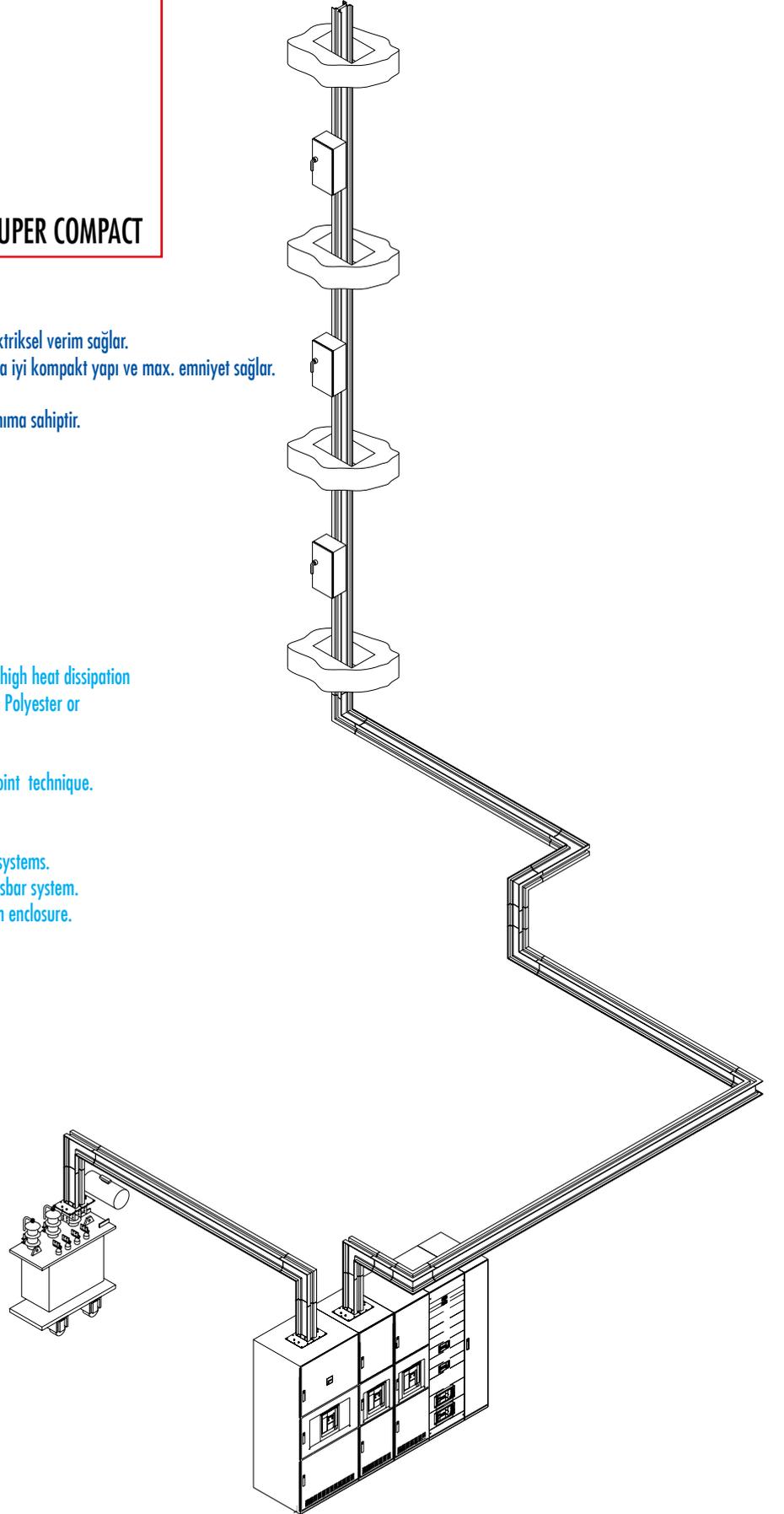
GS-400A ~ 6300 A



IP55  
IP65/67/68

GS-SUPER COMPACT

- \* 400-6300 Amper aralığında üretilir.
- \* İletkenler Kalay kaplıdır.
- \* Tamamı alüminyumdan imal edilmiş gövde, soğumayı hızlandırarak elektriksel verim sağlar.
- \* 0.38 mm kalınlığında Polyester veya Polyester+Epoksi izolasyon ile daha iyi kompakt yapı ve max. emniyet sağlar.
- \* Dönüş ve offset aksesuarları kaynaklıdır.
- \* Ek noktaya kısa devreye imkan vermez ve bolt-on çıkışı olabilecek donanıma sahiptir.
- \* Compact yapıyı bozmayan plug-in noktalarına sahiptir.
- \* Standart IP55 ve IP65/67/68 koruma sınıfında üretilir.
- \* Busbar ile ilgili uluslararası tüm sertifikalara ve CE belgesine sahiptir.
- \* Class F (155 °C) 300 mikron epoxy kaplama GSC için uygulanabilir.
- \* Alüminyum gövde ekstrüzyon, korozyon dayanımlı ve eloksallıdır.
- \* Alüminyum gövde kalınlığı 3-4 mm 'dir .
- \* 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

İletken olarak kullanılan malzeme alüminyumdur (EC Grade)  
The conductors used in this serie are aluminium (EC Grade)

GSC  
400 - 6300A

Bu seride kullanılan iletkenler EN 13601 'e uygun HDHC bakırdır (%99.9 saflıkta)  
The Conductors used in this series are HDHC copper(99.9% Purity) as per EN 13601

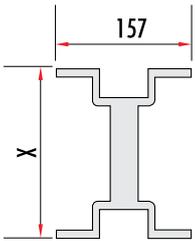
## 3P+N+%50E (3P+N+%100E / 3P+2N+%50E)

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

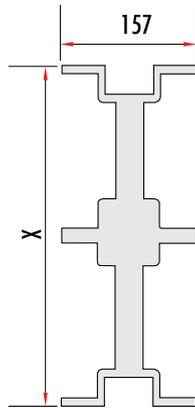
GSA	X mm	GSC	X mm
GSA 2500A	370	GSC 2500A	300
GSA 3200A	410	GSC 3200A	370
GSA 4000A	510	GSC 4000A	410

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

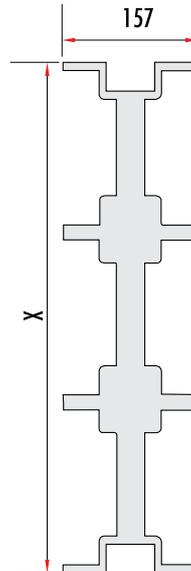
GSA	X mm
GSA 6300A	1020



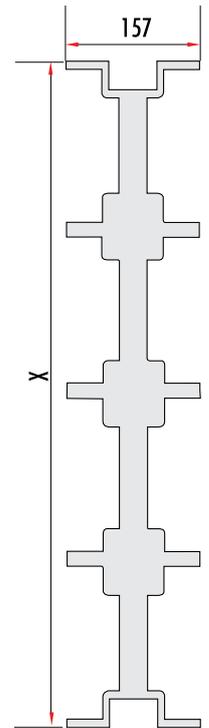
İletken Sayısı Conductor Nos	5	3P+N+%50E
عدد الموصلات		



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



İletken Sayısı Conductor Nos	15	3P+N+%50E
عدد الموصلات		



İletken Sayısı Conductor Nos	20	3P+N+%50E
عدد الموصلات		

### STANDART BOY ELEMAN (BOLT-ON) 3P+N+1/2 PE *Standard Length Element (Bolt-on) 3P+N+1/2 Pe*

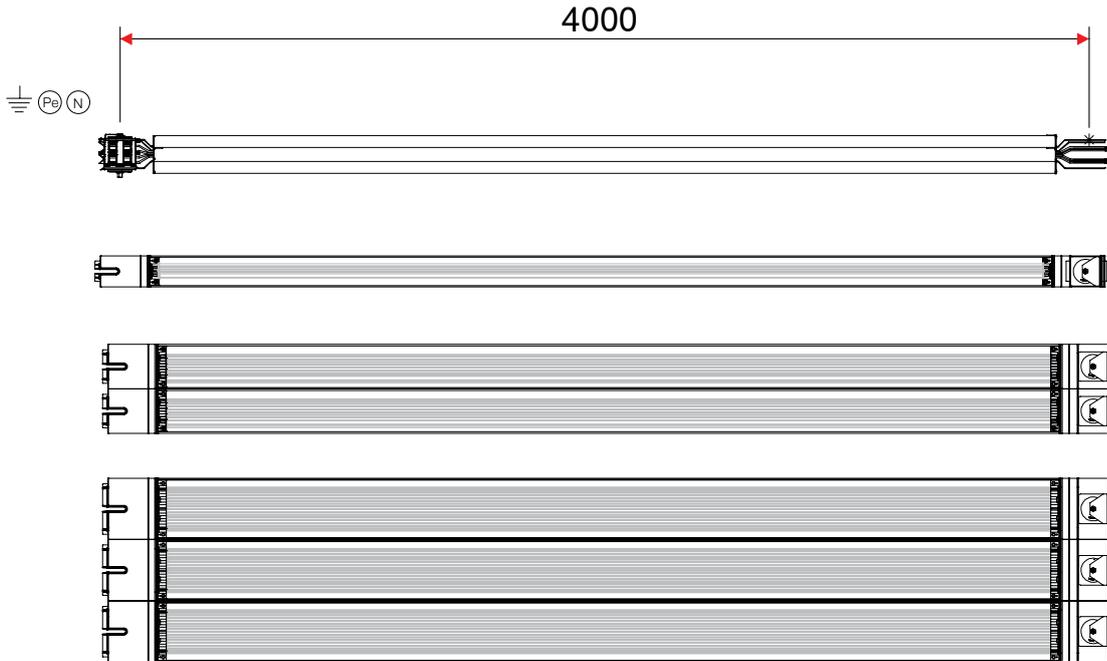


#### GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg/m) 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



Malzemeler. Alüminyum gövde arasında Polyester veya Polyester+Epoksi Film izolasyon kaplı baralardan oluşur. Standart IP55 veya opsiyonel IP65/67/68 koruma derecesine sahiptir. Lütfen Siparişinizde koruma seviyesini belirtiniz. Genel ısı izolasyon sınıfı Class B, F ve H'dir.

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.

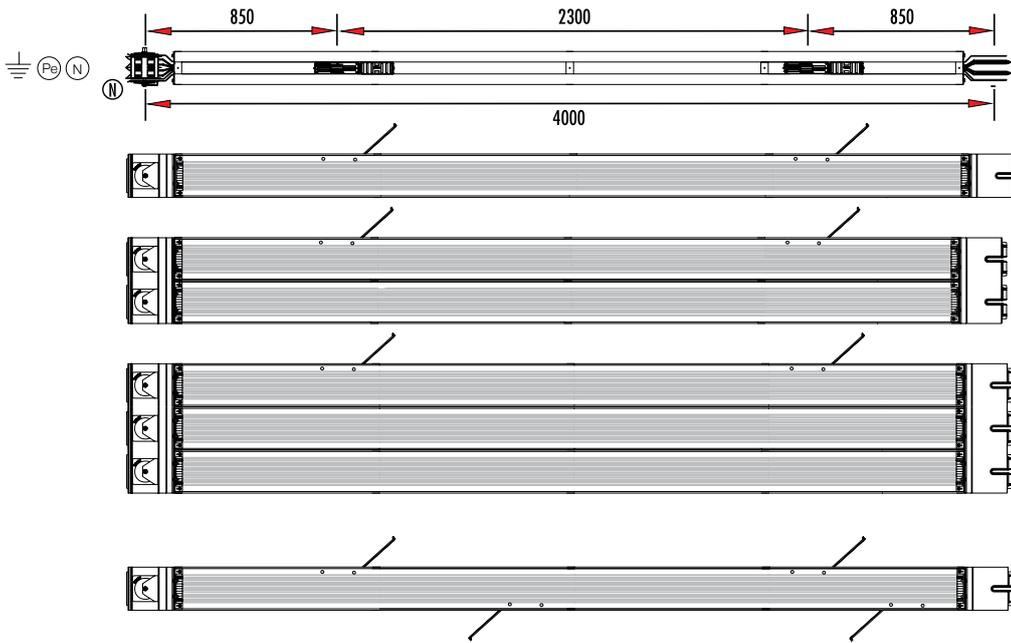
## STANDART BOY ELEMAN (PLUG-IN) 3P+N+1/2 PE Standard Length Element (Plug-in) 3P+N+1/2 PE

## GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg/m) 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



Alüminyum busbarlarda 1600A'e, Bakır busbarlarda 2000A'e kadar tek taraflı çıkış sağlanmaktadır. / It provides single coin output up to 1600A in aluminum busbars and 2000A in copper busbars.

Malzemeler. Alüminyum gövde arasında Polyester veya Polyester+Epoksi Film izolasyon kaplı baralardan oluşur. Standart IP55 veya opsiyonel IP65/67/68 koruma derecesine sahiptir. Lütfen Siparişinizde koruma seviyesini belirtiniz. Genel ısı izolasyon sınıfı Class B. F ve H'dir.

Housing of the busbars consists of aluminum 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.

# SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ

Super Compact Busbar Trunking Systems

## ARABOY ELEMANI (BOLT-ON) 3P+N+1/2 PE Non Standard Element (Bolt-on) 3P+N+1/2 PE



Min X = 370 mm  
Max X = 3999 mm

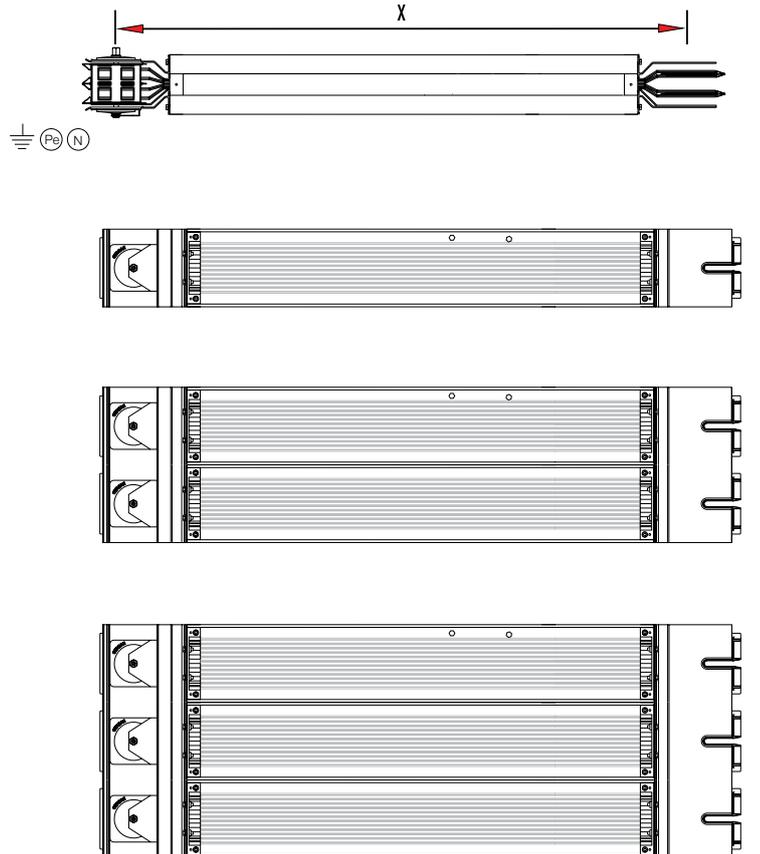
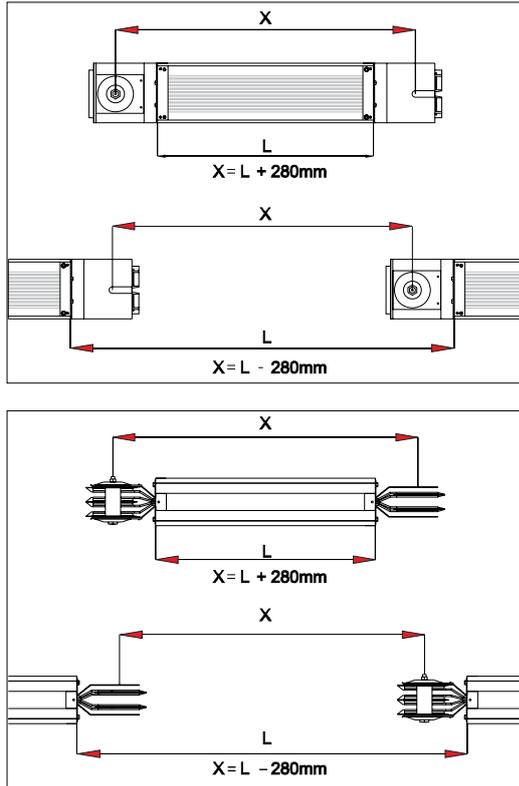
Siparişlerinizde X boyunu belirtiniz.  
Please inform X length when ordering.

### GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg/m) 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



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



## GSA

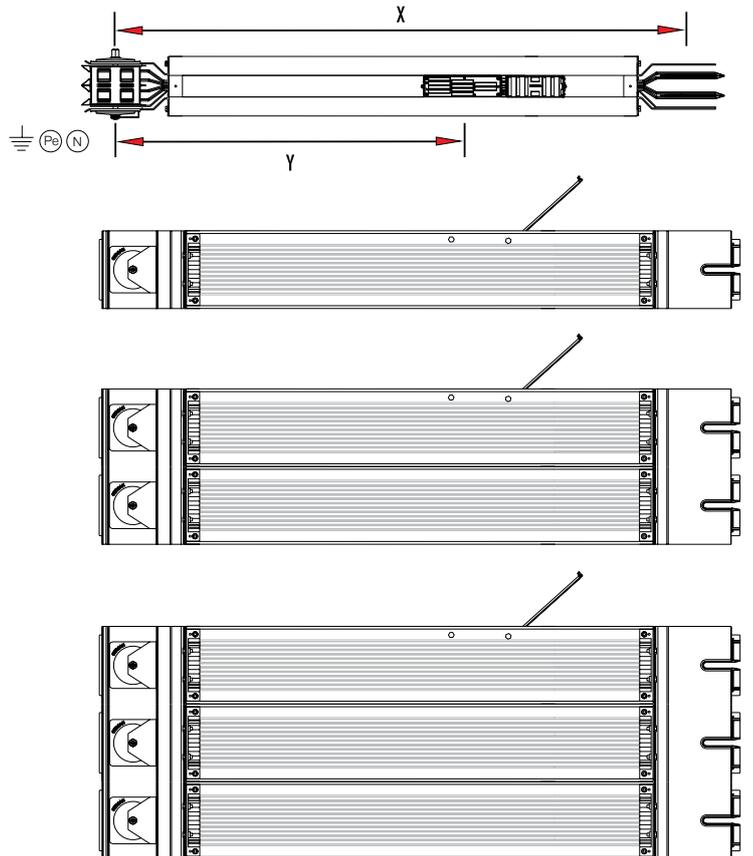
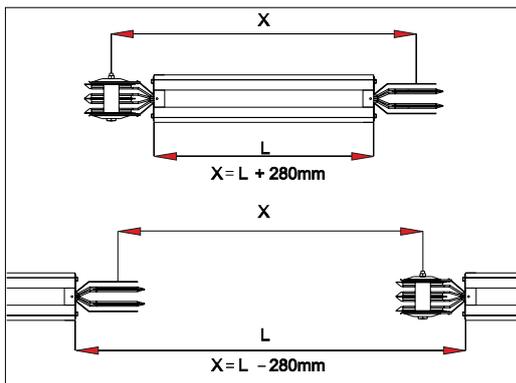
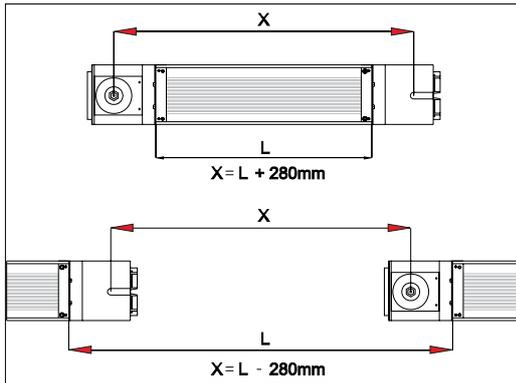
Sipariş kodu Order code	Stok kodu Stock code	Amper A A	Ağırlık (Kg/m) Weight (Kg/m)
GSAP 0501041	980304005521051	400	14.21
GSAP 0501051	980305015521051	500	14.21
GSAP 0501061	980306315521051	630	14.21
GSAP 0501081	980308015521051	800	14.21
GSAP 0501101	980310015521051	1000	14.94
GSAP 0501121	980312515521051	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

Siparişlerinizde X.Y boyunu belirtiniz.  
Please inform X.Y length when ordering.



### 90°YATAY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE 90° Horizontal Elbow Element (Right) 3P+N+1/2 PE

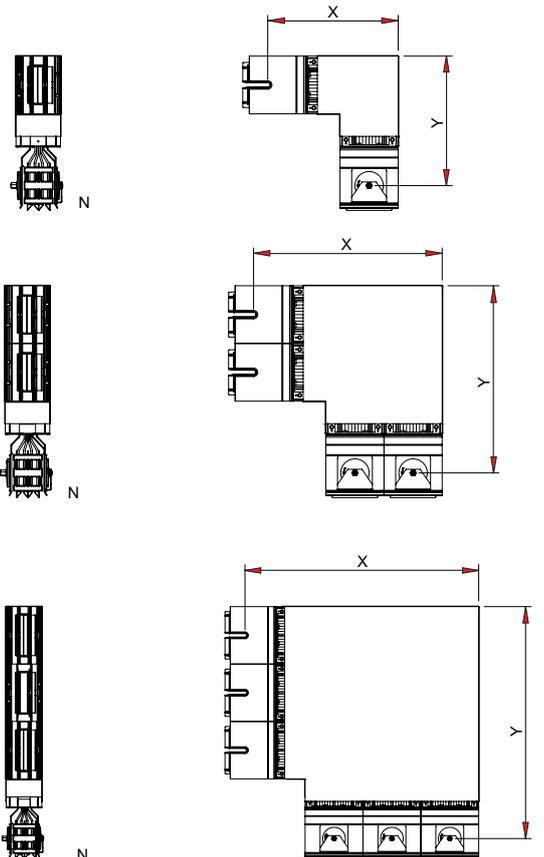
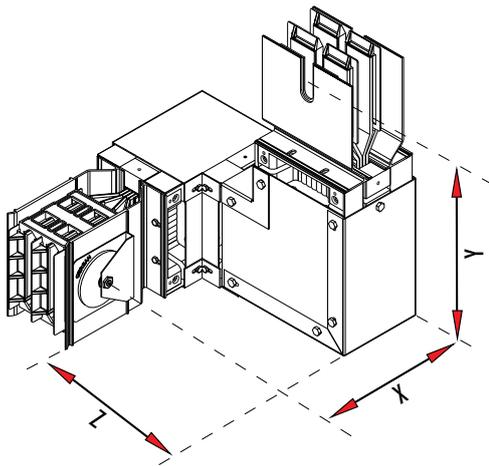


#### GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Ağırlık (Kg/Ad.) 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



Siparişinizde özel açılı veya dikey + yatay kombinasyonları için isteğinizi bildiriniz.  
- Min 85°. Max 179°  
Please inform your request for special angle or vertical + horizontal elbow combinations.  
- Min 85°. Max 179°

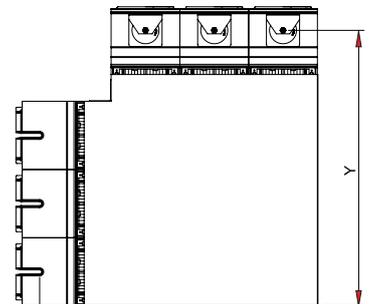
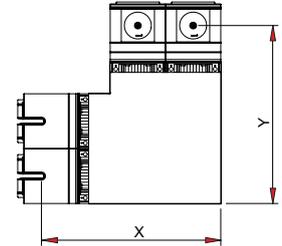
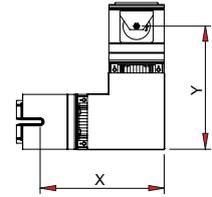
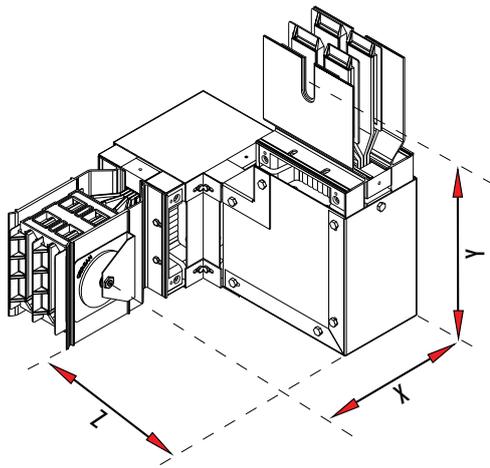
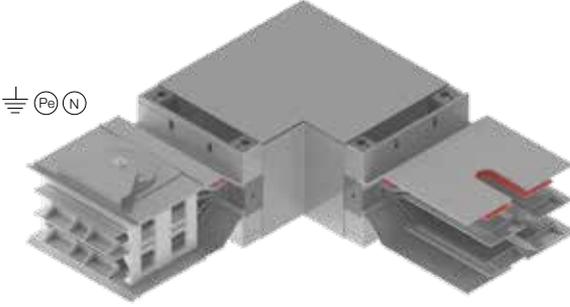
## 90°YATAY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE 90° Horizontal Elbow Element (Left) 3P+N+1/2 PE

## GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Ağırlık (Kg/Ad.) 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



Siparişinizde özel açılı veya dikey + yatay kombinasyonları için isteğinizi bildiriniz.

- Min 85°. Max 179°

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

- Min 85°. Max 179°

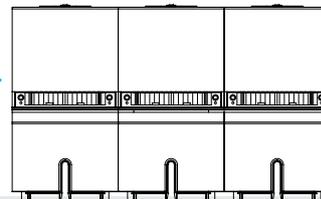
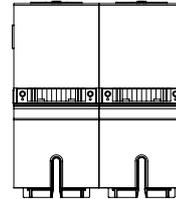
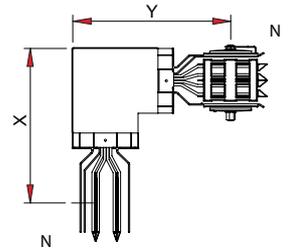
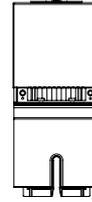
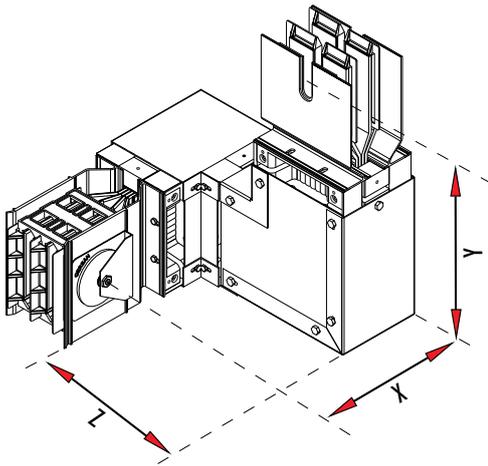
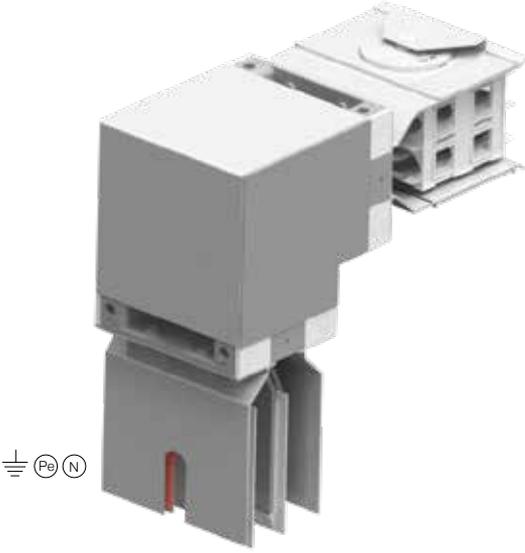
### 90° DİKEY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE 90° Vertical Elbow Element (Right) 3P+N+1/2 PE

#### GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Ağırlık (Kg/Ad.) 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



- Siparişinizde özel açılı veya dikey + yatay kombinasyonları için isteğinizi bildiriniz.

- Min 85°. Max 179°

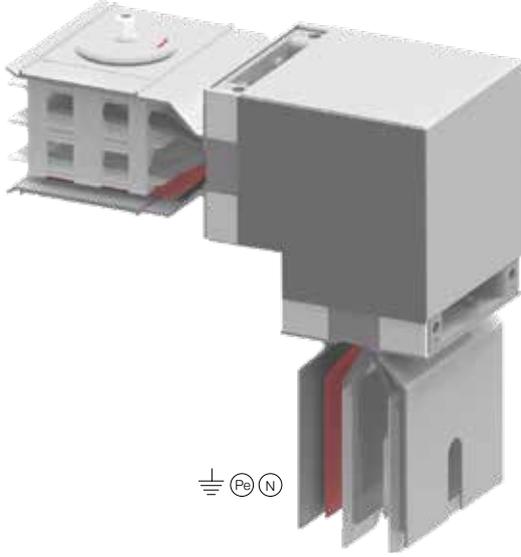
- 90° altındaki açılarda ölçüler 2 cm uzamaktadır.

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

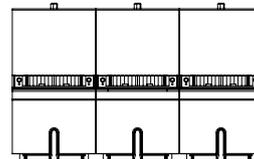
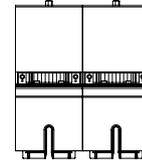
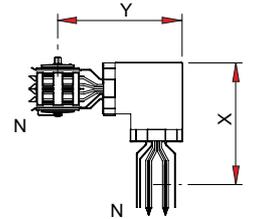
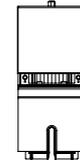
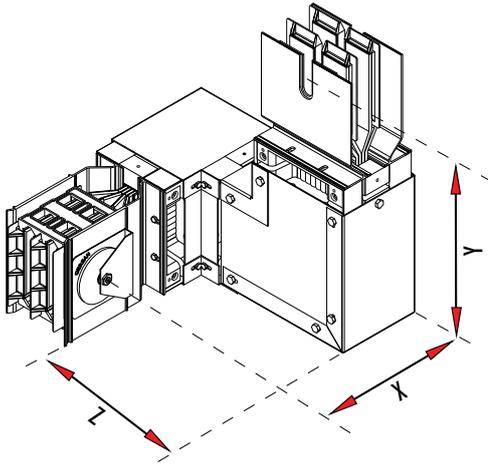


## GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Ağırlık (Kg/Ad.) 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



- Siparişinizde özel açılı veya dikey + yatay kombinasyonları için isteğinizi bildiriniz.

- Min 85°. Max 179°

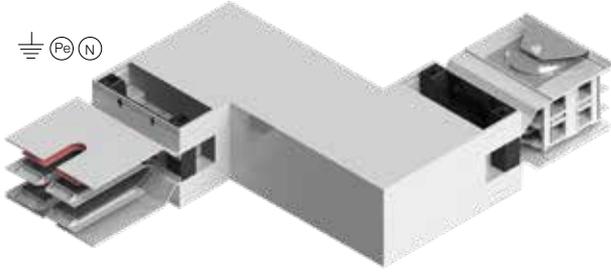
- 90° altındaki açılarda ölçüler 2 cm uzamaktadır.

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



#### GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Z mm	Ağırlık (Kg./Ad.) 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

Siparişte X.Y.Z ölçülerini mm cinsinden veriniz.

X.Y.Z standart modeller için tabloda verilmiştir.

- Min 85°. Max 179°

- 90° altındaki açılarda ölçüler 2 cm uzamaktadır.

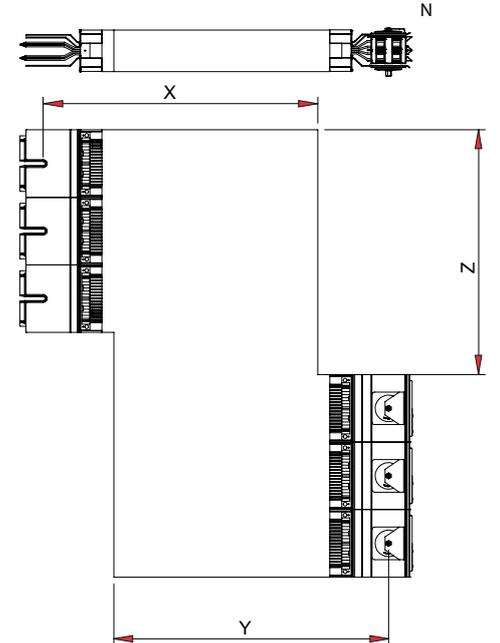
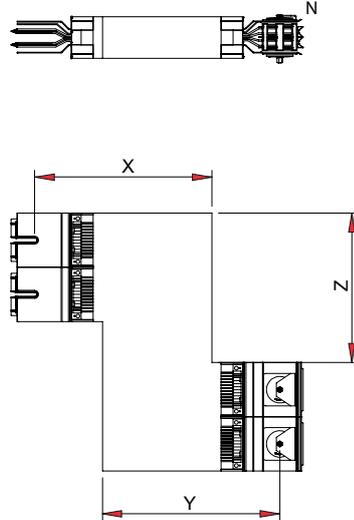
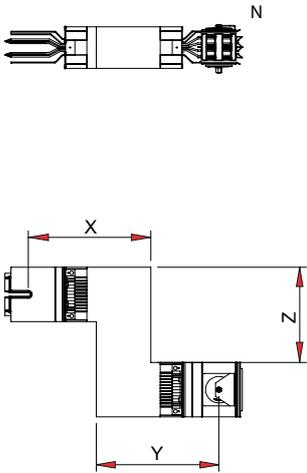
Standard manufacturing length is given at the table.

Requested lengths can be manufactured.

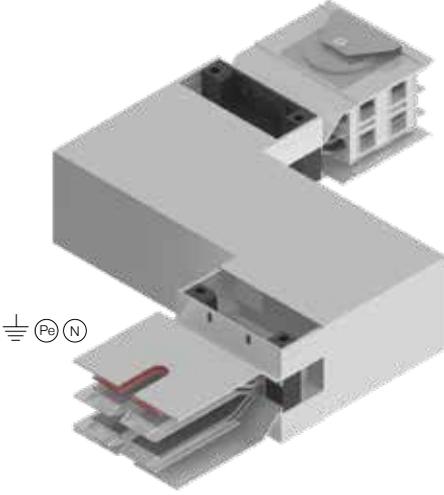
Please inform the length X.Y.Z when ordering.

- Min 85°. Max 179°

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



## 90° YATAY OFSET ELEMANI (SOL) 3P+N+1/2 PE 90° Horizontal Offset Element (Left) 3P+N+1/2 PE



## GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Z mm	Ağırlık (Kg/Ad.) 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

Siparişte X.Y.Z ölçülerini mm cinsinden veriniz.

X.Y.Z standart modeller için tabloda verilmiştir.

- Min 85°. Max 179°

- 90° altındaki açılarda ölçüler 2 cm uzamaktadır.

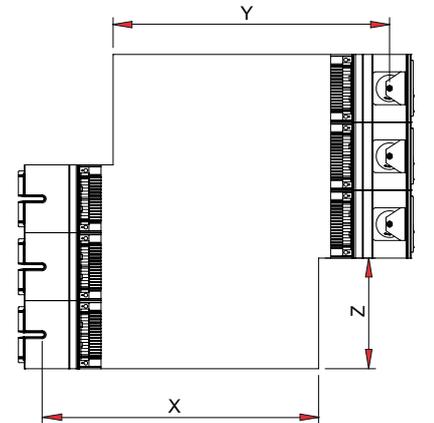
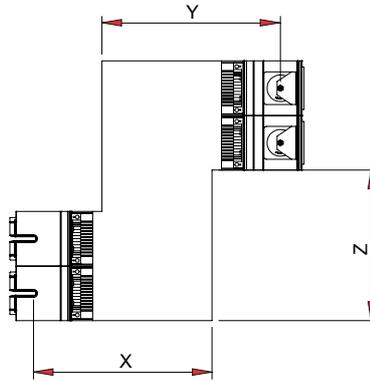
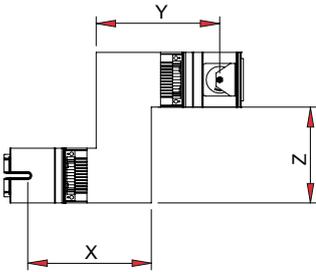
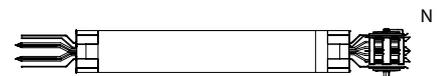
Standard manufacturing length is given at the table.

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.



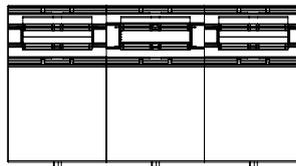
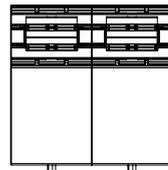
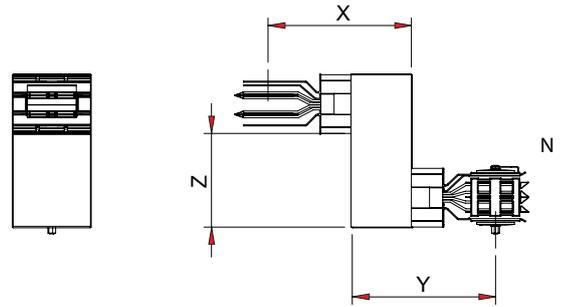
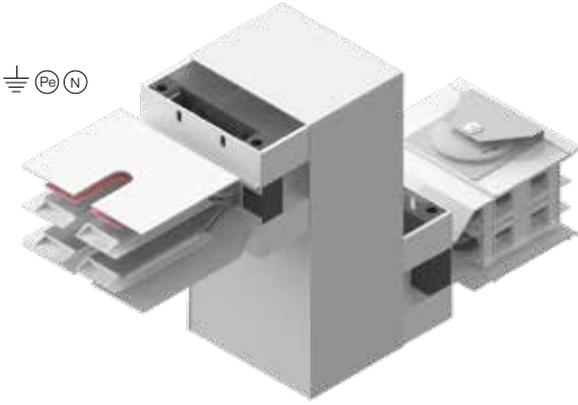
### 90° DİKEY OFSET ELEMANI (SAĞ) 3P+N+1/2 PE 90° Vertical Offset Element (Right) 3P+N+1/2 PE

#### GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A A	X mm	Y mm	Z mm	Ağırlık (Kg/Ad.) 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



Siparişte X.Y.Z ölçülerini mm cinsinden veriniz.

X.Y.Z standart modeller için tabloda verilmiştir.

- Min 85°. Max 179°

- 90° altındaki açılarda ölçüler 2 cm uzamaktadır.

Standard manufacturing length is given at the table.

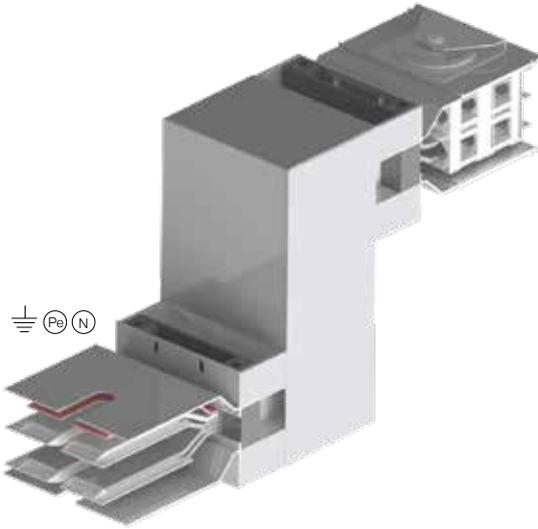
Requested lengths can be manufactured.

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

- Min 85°. Max 179°

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

## 90° DİKEY OFSET ELEMANI (SOL) 3P+N+1/2 PE 90° Vertical Offset Element (Left) 3P+N+1/2 PE

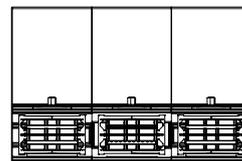
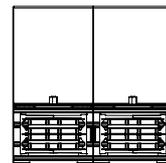
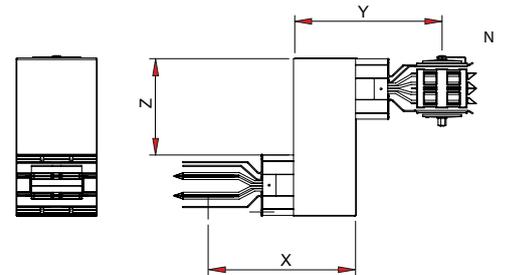


## GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A A	X mm	Y mm	Z mm	Ağırlık (Kg./Ad.) 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



Siparişte X.Y.Z ölçülerini mm cinsinden veriniz.

X.Y.Z standart modeller için tabloda verilmiştir.

- Min 85°. Max 179°

- 90° altındaki açılarda ölçüler 2 cm uzamaktadır.

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.

# SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ

Super Compact Busbar Trunking Systems

T ELEMANI (SAĞ) 3P+N+1/2 PE

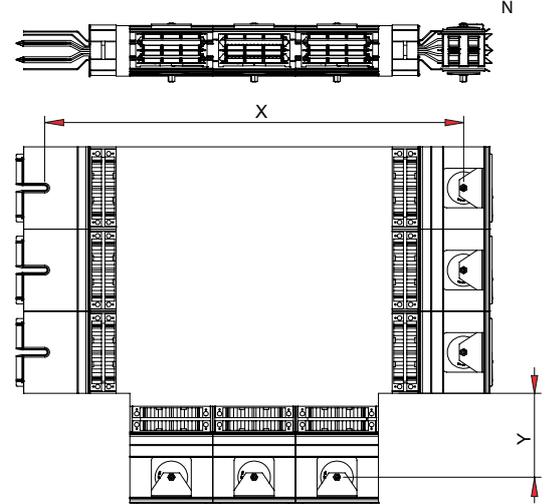
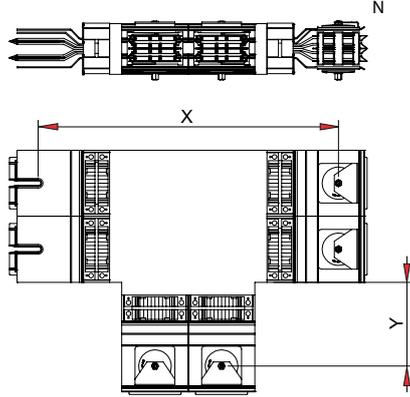
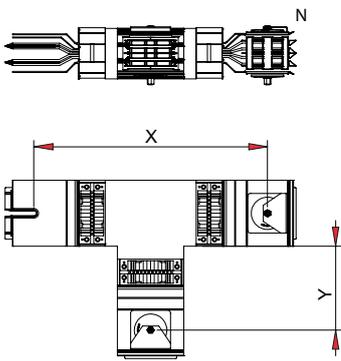
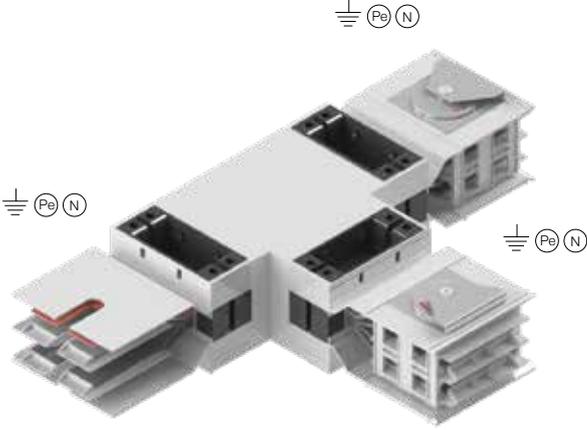
T Element (Right) 3P+N+1/2 PE

## GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Ağırlık (Kg/Ad.) 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

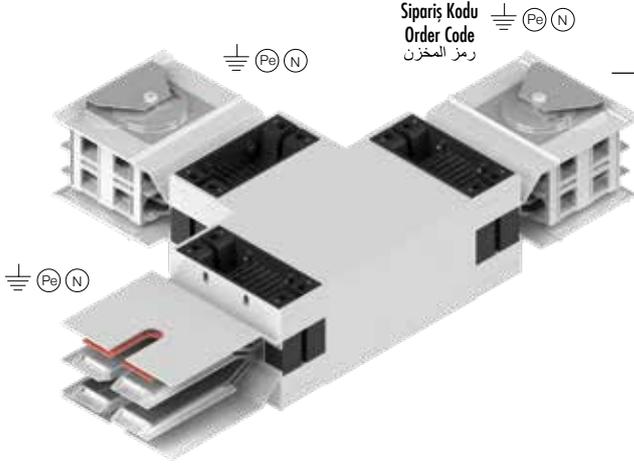
GSC TE 04R	993804005510051	400	630	260	30.13
GSC TE 05R	993805015510051	500	630	260	30.13
GSC TE 06R	993806315510051	630	630	260	30.13
GSC TE 08R	993808015510051	800	630	260	30.13
GSC TE 10R	993810015510051	1000	630	260	30.13
GSC TE 12R	993812515510051	1250	645	260	33.54
GSC TE 16R	993816015510051	1600	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



Siparişte X.Y ölçülerini mm cinsinden veriniz. X.Y standart modeller için tabloda verilmiştir.  
Standard manufacturing length is given at the table. Requested lengths can be manufactured.  
Please inform the length X.Y when ordering.

## T ELEMANI (SOL) 3P+N+1/2 PE

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

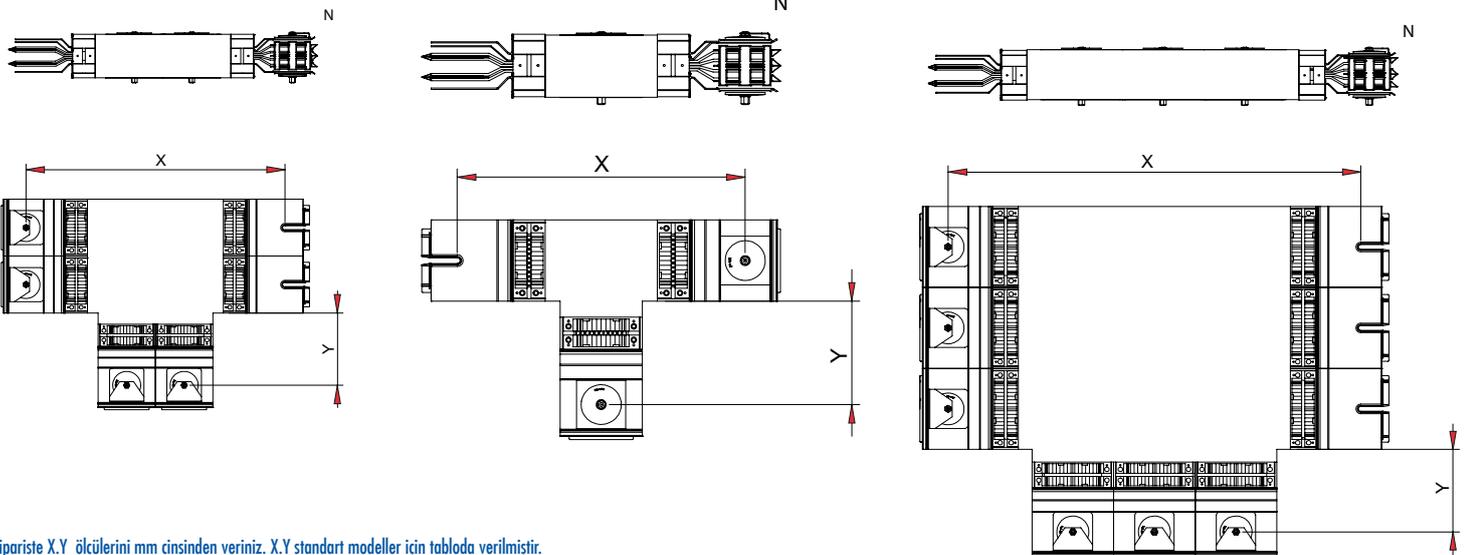


## GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Ağırlık (Kg./Ad.) 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

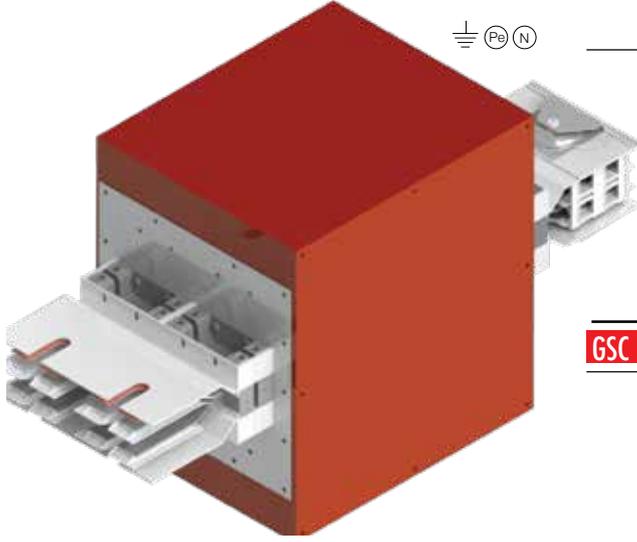
GSC TE 04L	993804005510052	400	630	260	30.13
GSC TE 05L	993805015510052	500	630	260	30.13
GSC TE 06L	993806315510052	630	630	260	30.13
GSC TE 08L	993808015510052	800	630	260	30.13
GSC TE 10L	993810015510052	1000	630	260	30.13
GSC TE 12L	993812515510052	1250	645	260	33.54
GSC TE 16L	993816015510052	1600	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



Siparişte X.Y ölçülerini mm cinsinden veriniz. X.Y standart modeller için tabloda verilmiştir.  
Standard manufacturing length is given at the table. Requested lengths can be manufactured.  
Please inform the length X.Y when ordering.

### REDÜKSİYON ELEMANI 3P+N+1/2 PE

### Reduction Element 3P+N+1/2 PE

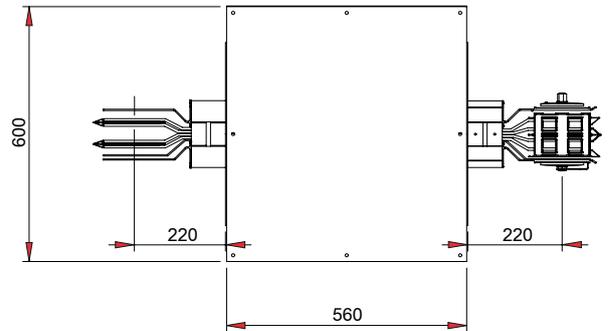
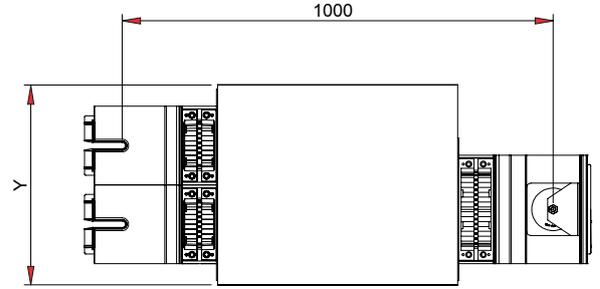


#### GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A A	Y mm	Ağırlık (Kg./Ad.) Weight (Kg./Unit)
GSA RED1008	981310095520050	1000/800	-	18.20
GSA RED1210	981313105520050	1250/1000	-	20.26
GSA RED1712	981317135520050	1600/1250	-	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

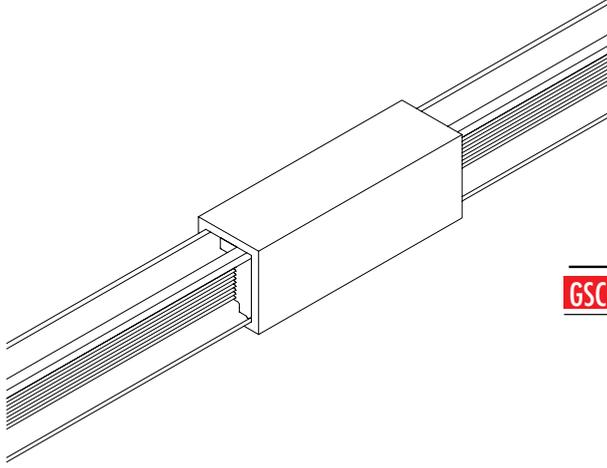
GSC RED1210	991313105510051	1250/1000	-	28.94
GSC RED1612	991316135510051	1600/1250	-	34.05
GSC RED2016	991322165510051	2000/1600	-	46.22
GSC RED2520	991325225510051	2500//2000	-	92.31
GSC RED3325	991333255510101	3200/2500	470	108.68
GSC RED4233	991342335510101	4000/3200	510	134.28
GSC RED5042	991350425510151	5000/4000	655	171.45
GSC RED6050	991360525510151	6300/5000	865	217.25



Salterli modeller için siparişlerinizde belirtiniz.  
It is available to use with circuit breaker.  
please inform this when ordering.

## YANGIN BARIYERİ 3P+N+1/2 PE

## Fire Barrier 3P+N+1/2 PE



## GSA

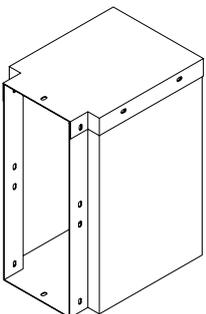
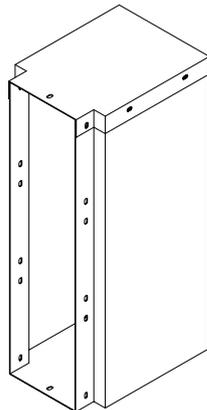
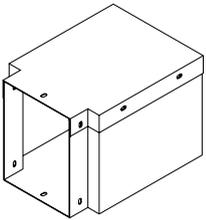
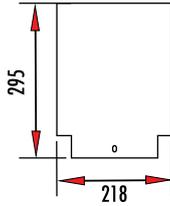
Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GSA FB 04	985004005520050	400	9.58
GSA FB 05	985005015520050	500	9.58
GSA FB 06	985006315520050	630	9.58
GSA FB 08	985008015520050	800	9.58
GSA FB 10	985010015520050	1000	9.71
GSA FB 12	985012515520050	1250	10.30
GSA 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

## SONLANDIRMA ELEMANI

## End Cap



## GSA

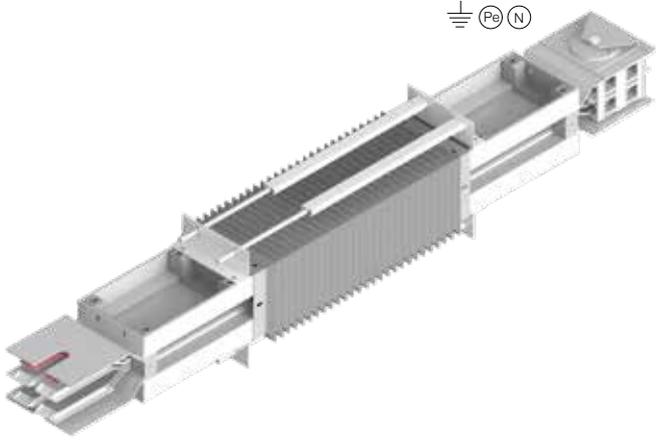
Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GSA EU 04	982404005520051	400	2.54
GSA EU 05	982405015520051	500	2.54
GSA EU 06	982406315520051	630	2.54
GSA EU 08	982408015520051	800	2.54
GSA EU 10	982410015520051	1000	2.60
GSA EU 12	982412515520051	1250	3.16
GSA 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

### MEKANİK DİLATASYON ELEMANI 3P+N+1/2 PE

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

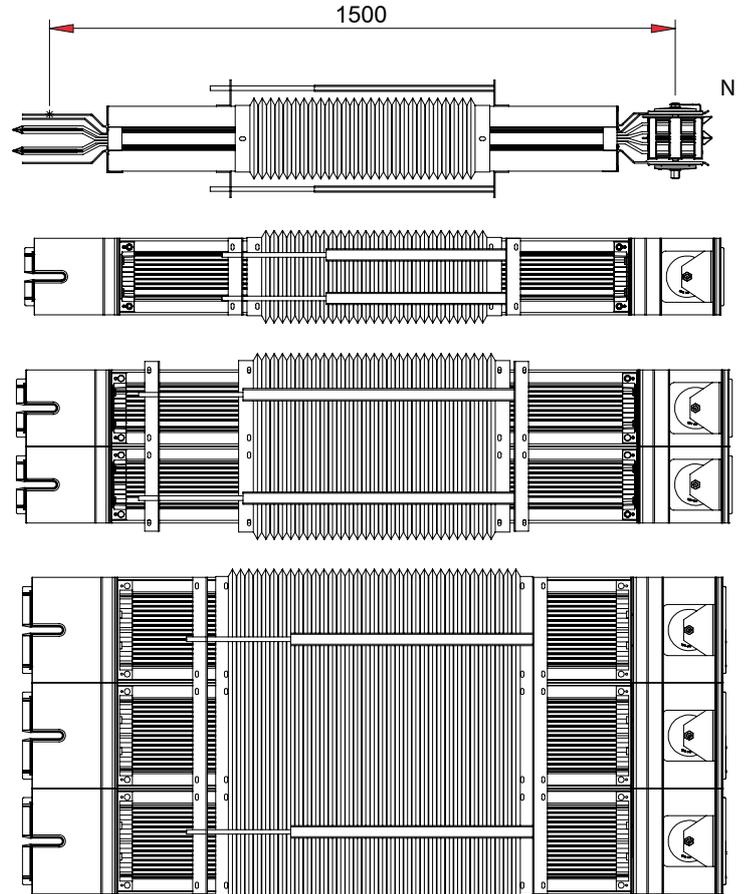
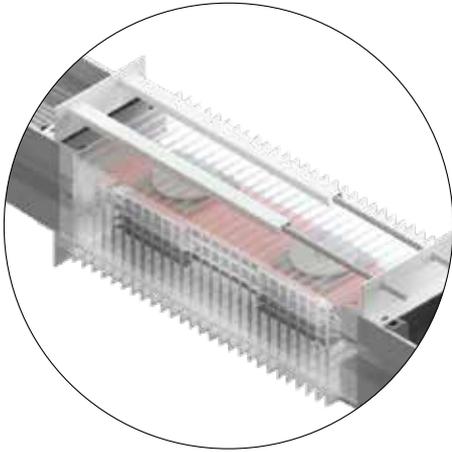


#### GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg./Ad.) 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



Binalardaki yapı genişleme noktalarında uygulanır.  
The expansion joint element must be inserted where there are structural expansion of the building.

## YATAY DİLATASYON ELEMANI 3P+N+1/2 PE

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

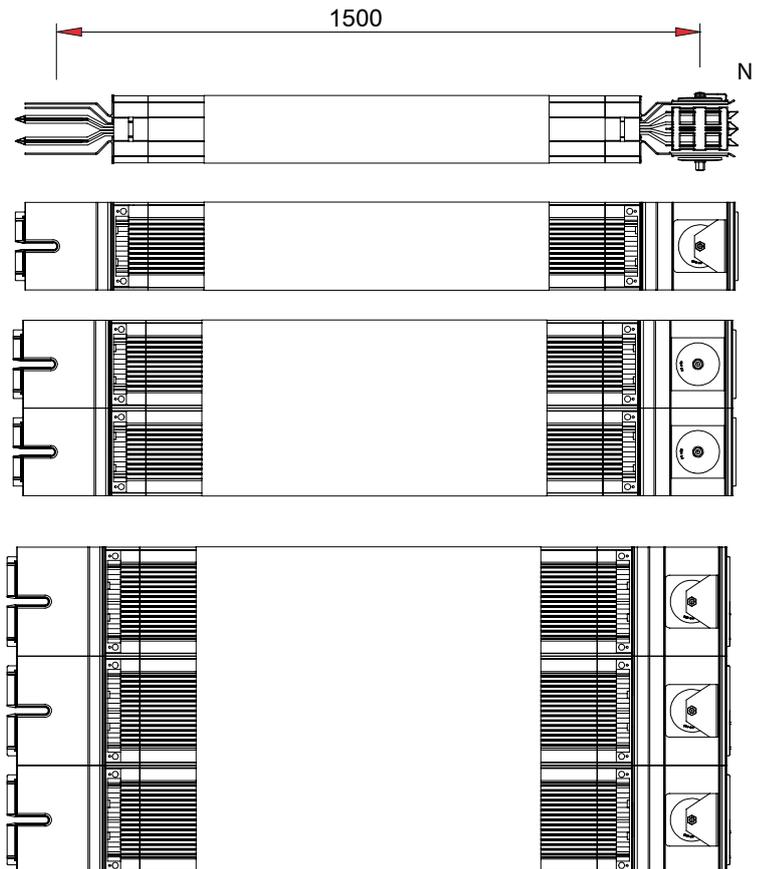
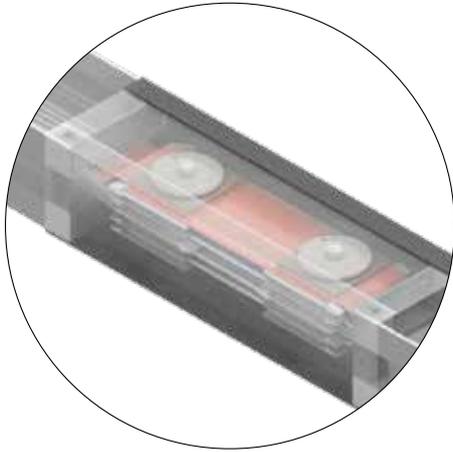


## GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg/Ad.) 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

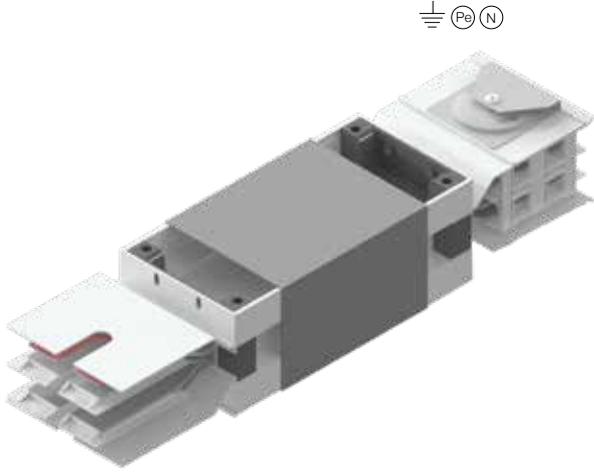


Her 40 mt. de bir uygulanır.

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

### DİKEY DİLATASYON ELEMANI 3P+N+1/2 PE

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

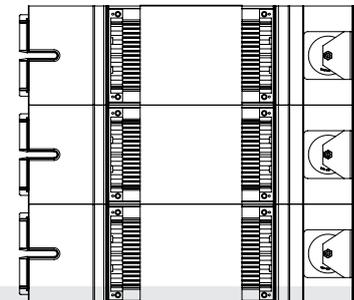
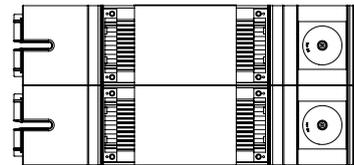
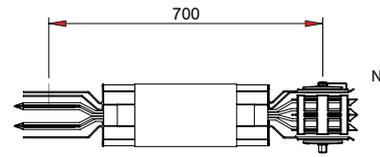
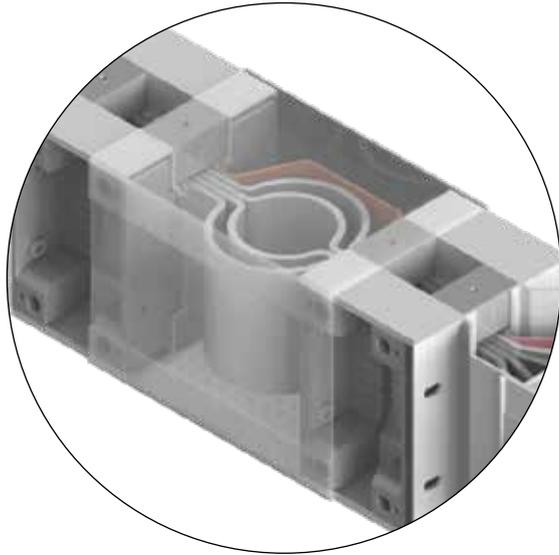


#### GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg/Ad.) 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

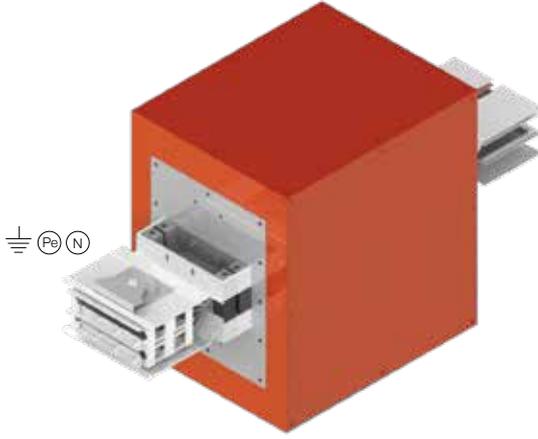
#### GSC

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



## FAZ-NÖTR YÖN DEĞİŞTİRME ELEMANI 3P+N+1/2 PE

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

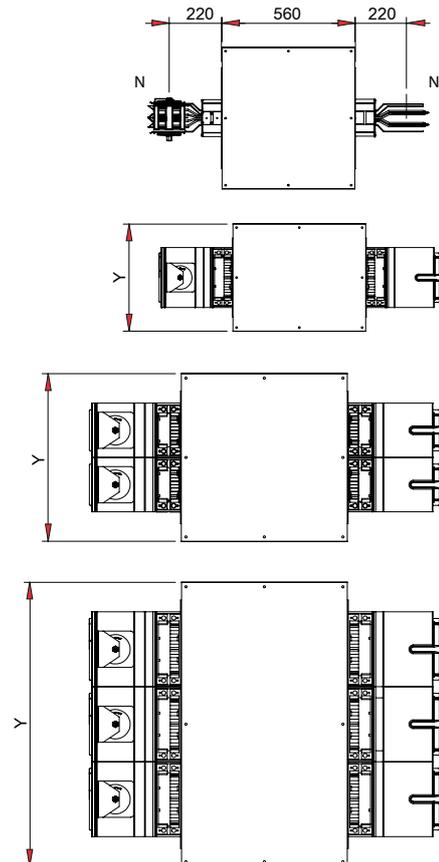


## GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg/Ad.) 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



### KURU TİP TRAFO ÜSTÜ ELEMANI (SAĞ) 3P+N+1/2 PE

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



- Min. X, Y, Z, T ve U = 100 mm

Kuru tip trafo modelleri için geliştirilmiştir. Bushing aralık ölçüleri trafo tipleri için değişeceğinden siparişte X, Y, Z, T ve U ölçülerini ve nötr yönünü mutlaka belirtiniz.

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.

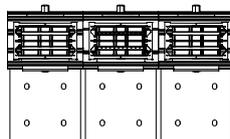
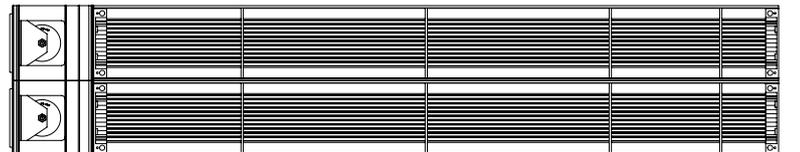
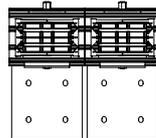
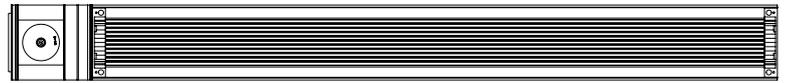
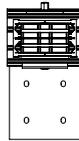
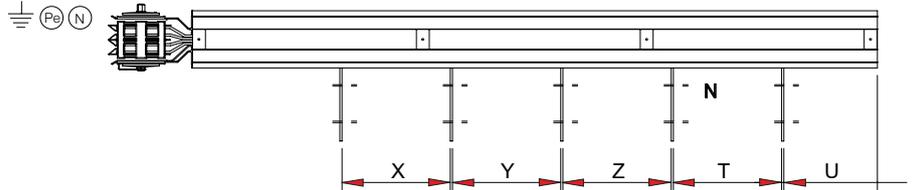
Siparişinizde özel açılı veya dikey + yatay kombinasyonları için isteğinizi bildiriniz. Please inform your request for special angle or vertical + horizontal elbow combinations.

#### GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg./Ad.) 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



## KURU TİP TRAFÖ ÜSTÜ ELEMANI (SOL) 3P+N+1/2 PE

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



- Min. X, Y, Z, T ve U = 100mm

Kurutıp trafo modelleri için geliştirilmiştir. Bushing aralık ölçüleri trafo tipleri için değişeceğinden siparişte X, Y, Z, T ve U ölçülerini ve nötr yönünü mutlaka belirtiniz.

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.

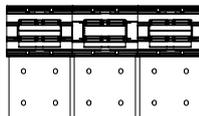
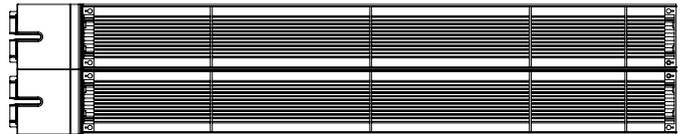
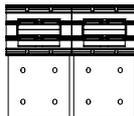
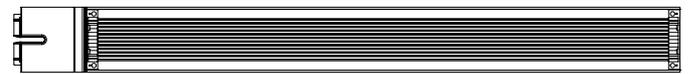
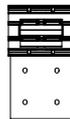
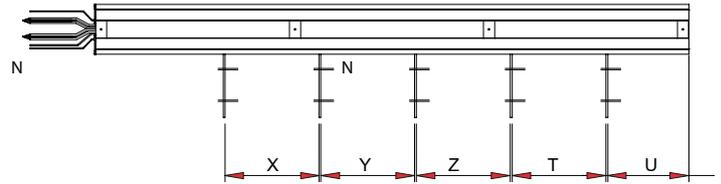
Siparişinizde özel açılı veya dikey + yatay kombinasyonları için isteğinizi bildiriniz.  
Please inform your request for special angle or vertical + horizontal elbow combinations.

## GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A A	Ağırlık (Kg/Ad.) 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

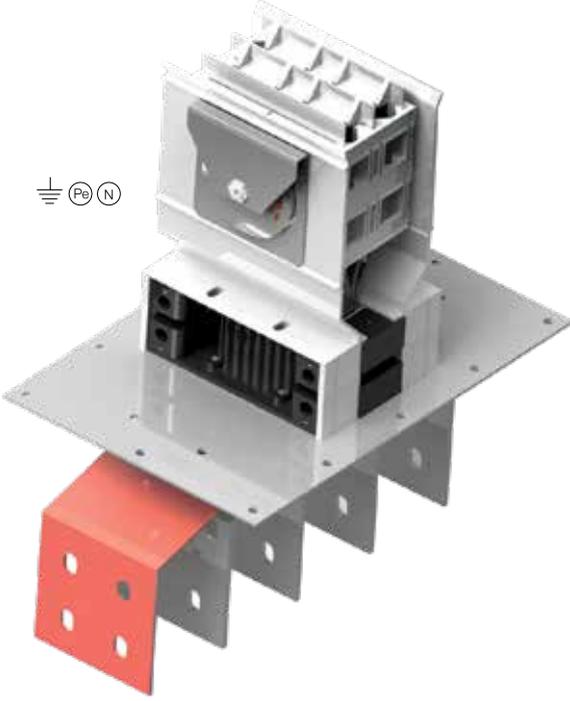
## GSC

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



PANO - TRAFO ÜSTÜ ELEMANI (SAĞ) 3P+N+1/2 PE

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

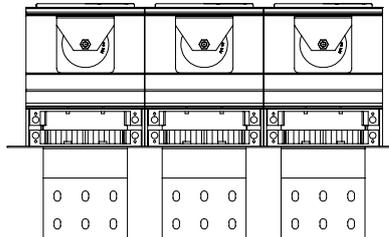
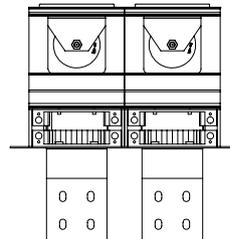
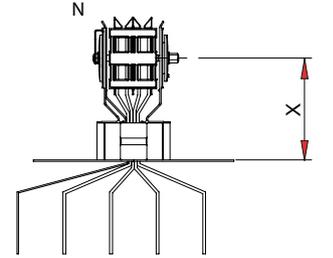
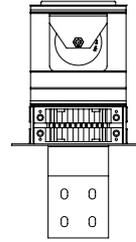


### GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Ağırlık (Kg/Ad.) 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

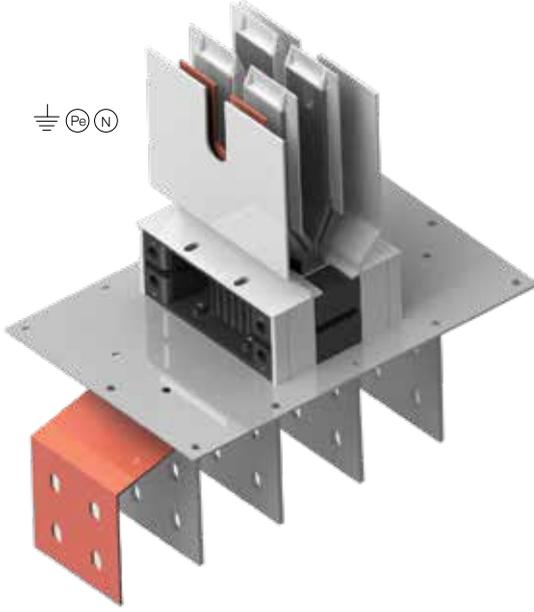
### GSC

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



## PANO - TRAFÖ ÜSTÜ ELEMANI (SOL) 3P+N+1/2 PE

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

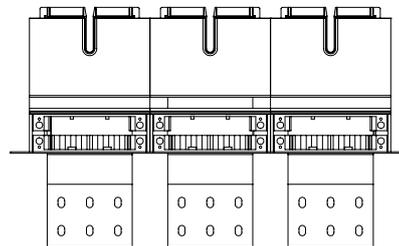
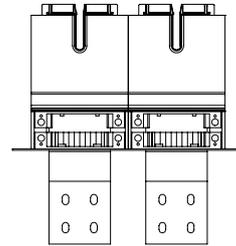
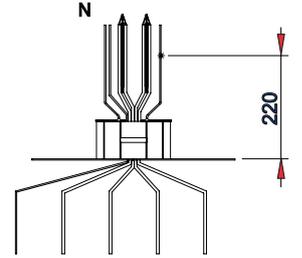
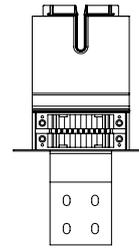


## GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Ağırlık (Kg/Ad.) 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

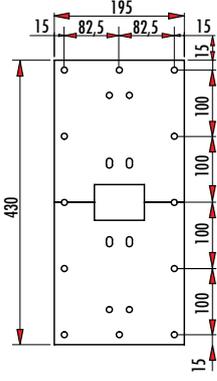
GSC TS 04L	990704005510052	400	220	14.20
GSC TS 05L	990705015510052	500	220	14.20
GSC TS 06L	990706315510052	630	220	14.20
GSC TS 08L	990708015510052	800	220	14.20
GSC TS 10L	990710015510052	1000	220	14.20
GSC TS 12L	990712515510052	1250	220	15.28
GSC TS 16L	990716015510052	1600	220	18.36
GSC TS 20L	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



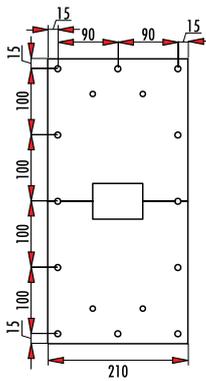
### PANO ve TRAF0 ÜSTÜ ELEMANININ TEKNİK DETAYLARI

### Technical Details of Switchboard Feed and Transformer Side Element

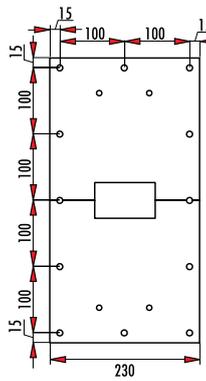
GSA 400-630-800A  
GSC 400-500-630-800-1000A



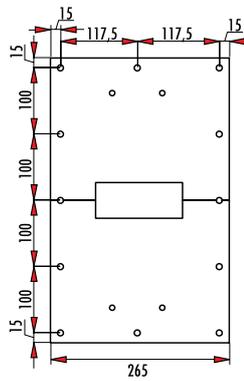
GSA 1000A  
GSC 1250A



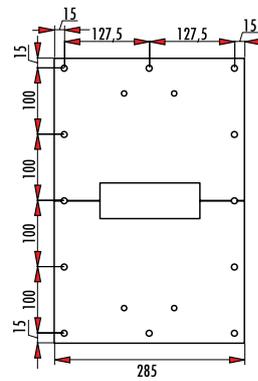
GSA 1250A  
GSC 1600A



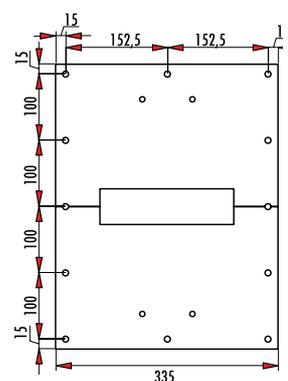
GSC 2000A



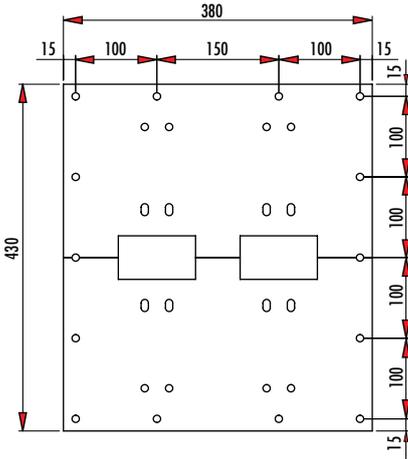
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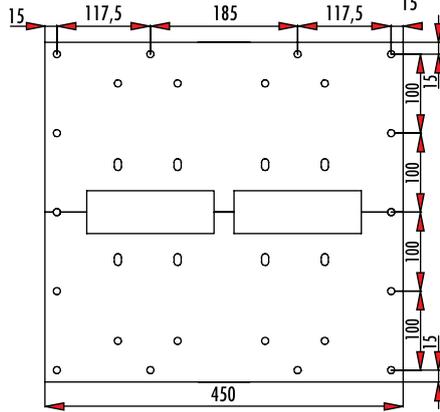
GSA 2000A



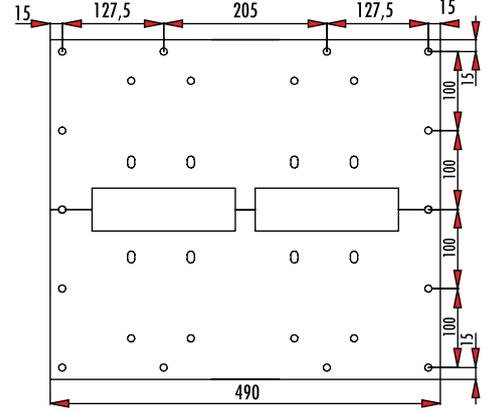
GSC 2500A



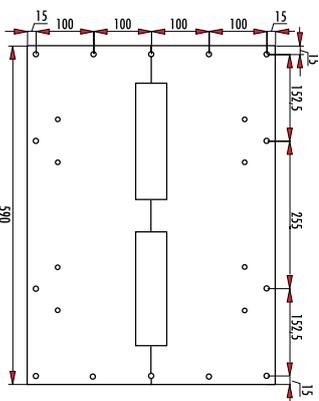
GSA 2500A  
GSC 3200A



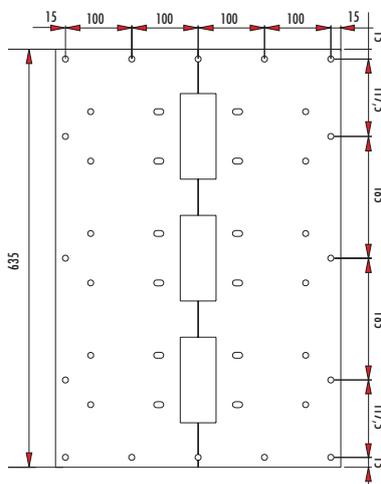
GSA 3200A  
GSC 4000A



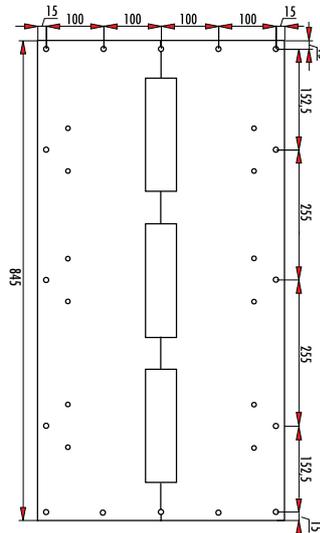
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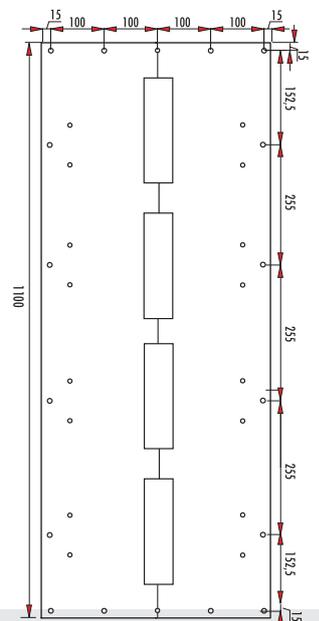
GSC 5000A



GSA 5000A  
GSC 6300A

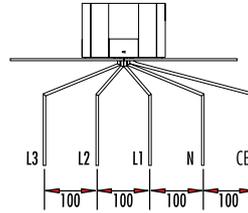
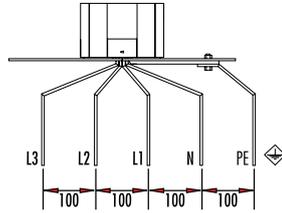


GSA 6300A

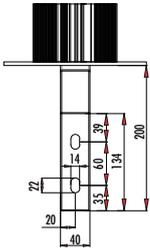


**PANO ve TRAF0 ÜSTÜ ELEMANNININ TEKNİK DETAYLARI**

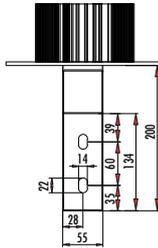
*Technical Details of Switchboard Feed and Transformer Side Element*



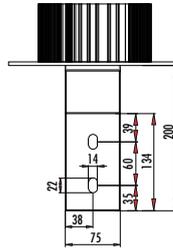
GSA 400-500-630-800A  
GSC 400-500-630-800-1000A



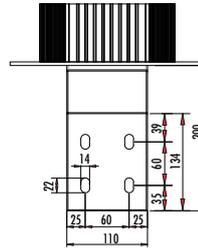
GSA 1000A  
GSC 1250A



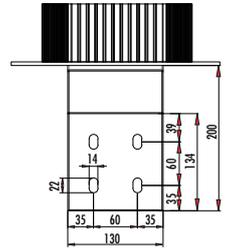
GSA 1250A  
GSC 1600A



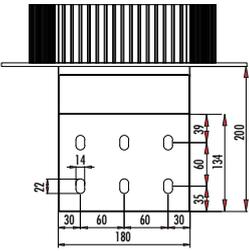
GSC 2000A



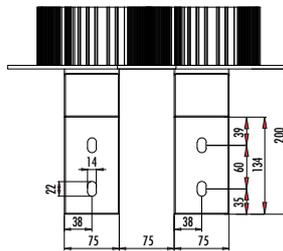
GSA 1600A



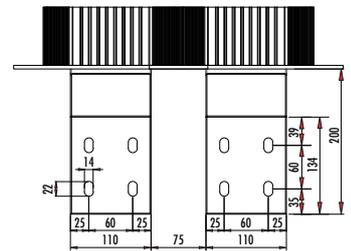
GSA 2000A



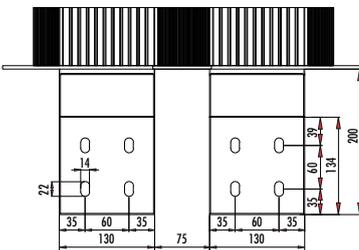
GSC 2500A



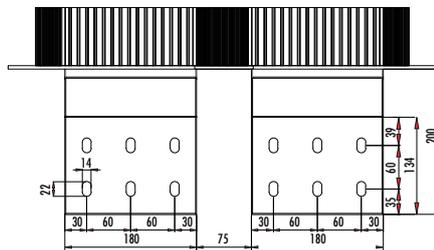
GSA 2500A  
GSC 3200A



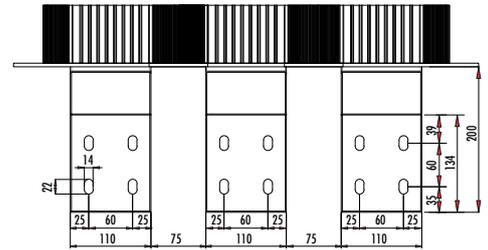
GSA 3200A  
GSC 4000A



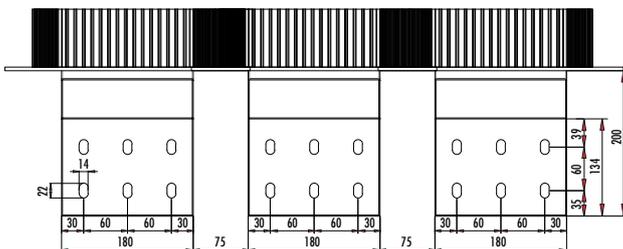
GSA 4000A



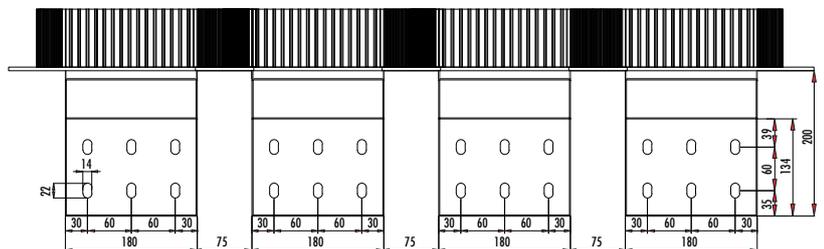
GSC 5000A



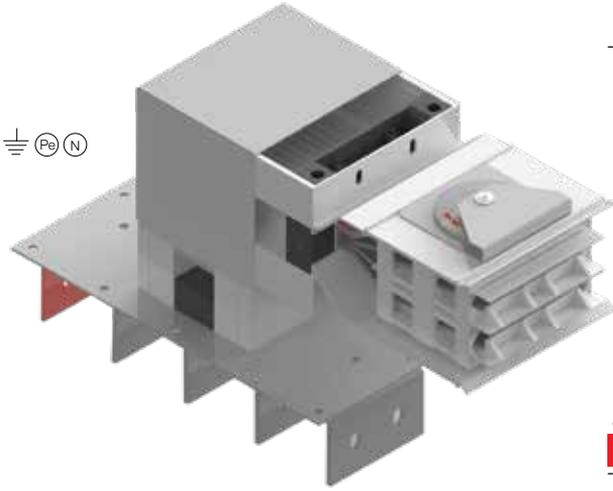
GSA 5000A  
GSC 6300A



GSA 6300A



### PANO - TRAFO ÜSTÜ 90° DİKEY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE Panel - Transformer Side 90° Vertical Elbow Element (Right) 3P+N+1/2 PE

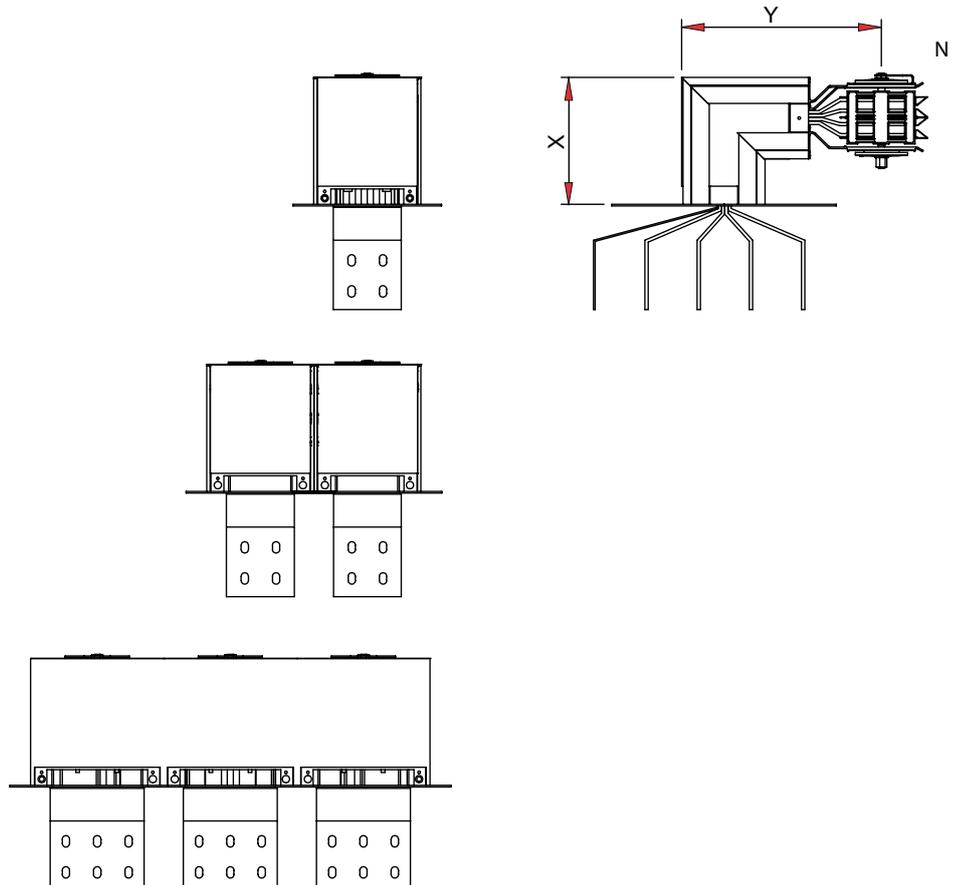


#### GSA

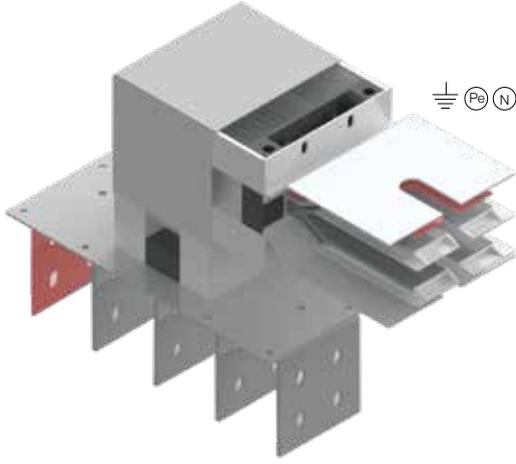
Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GSA PVE 04RR	984004005520050	400	245	380	16.76
GSA PVE 05RR	984005015520050	500	245	380	16.76
GSA PVE 06RR	984006315520050	630	245	380	16.76
GSA PVE 08RR	984008015520050	800	245	380	16.76
GSA PVE 10RR	984010015520050	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



## PANO - TRAFO ÜSTÜ 90° DİKEY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE Panel - Transformer Side 90° Vertical Elbow Element (Left) 3P+N+1/2 PE

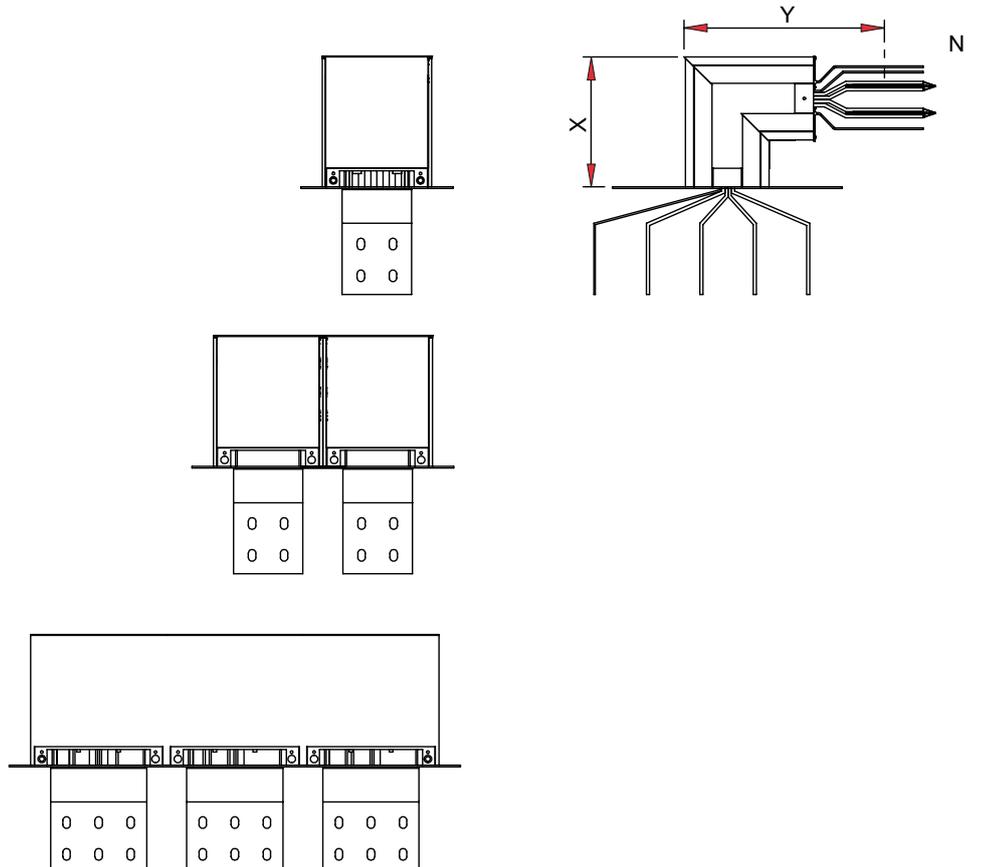


## GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
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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



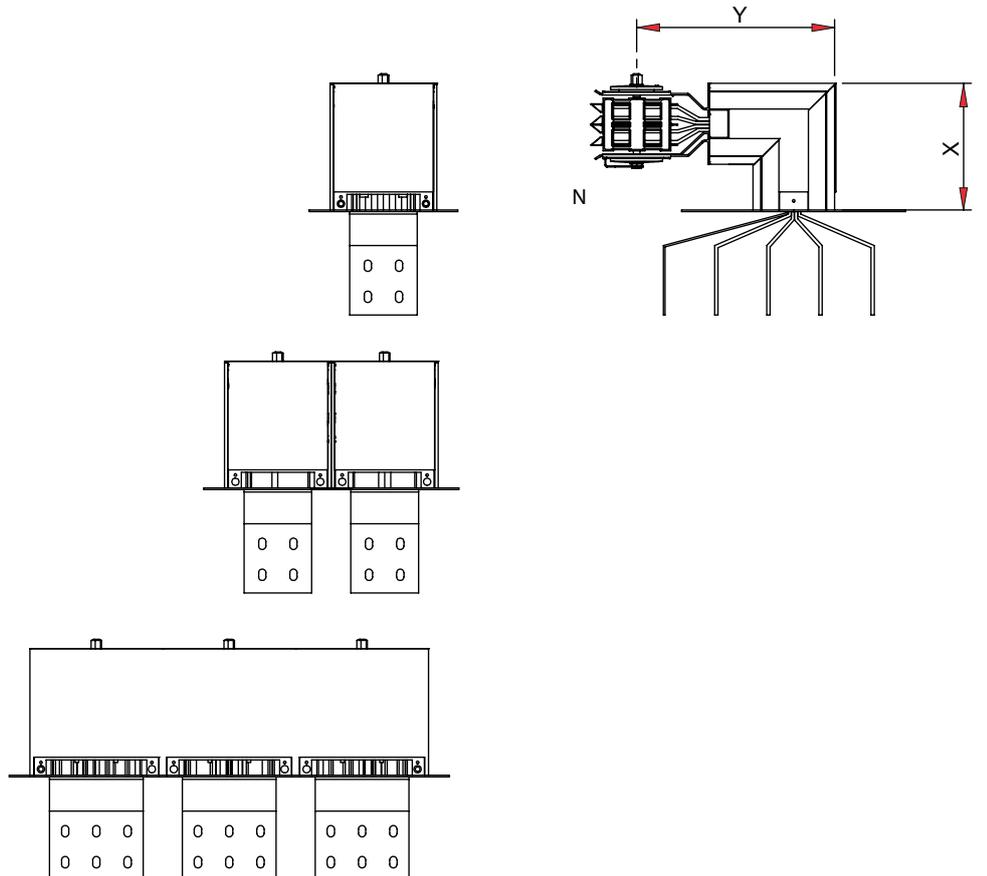
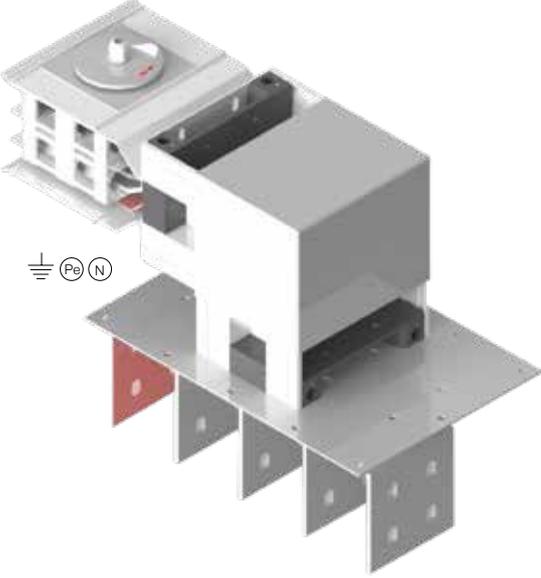
PANO - TRAFO ÜSTÜ 90° DİKEY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE Panel - Transformer Side 90° Vertical Elbow Element (Right) 3P+N+1/2 PE

### GSA

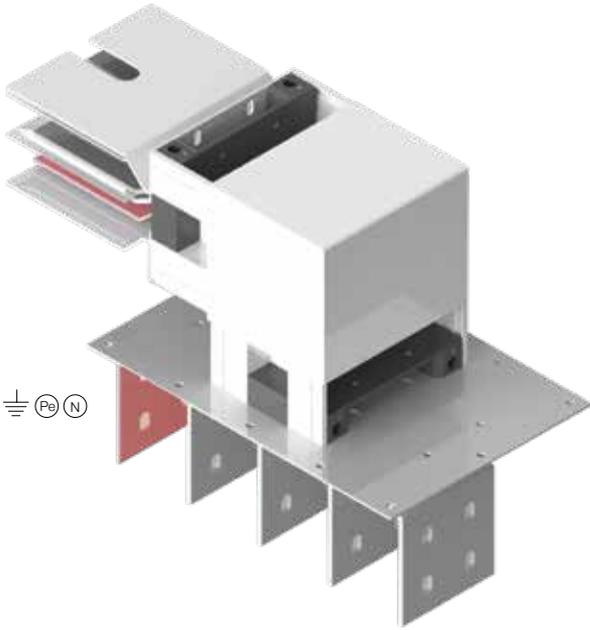
Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GSA PVE 04LR	984104005520050	400	245	380	16.76
GSA PVE 05LR	984105015520050	500	245	380	16.76
GSA PVE 06LR	984106315520050	630	245	380	16.76
GSA PVE 08LR	984108015520050	800	245	380	16.76
GSA PVE 10LR	984110015520050	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



## PANO - TRAF0 ÜSTÜ 90° DİKEY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE Panel - Transformer Side 90° Vertical Elbow Element (Left) 3P+N+1/2 PE

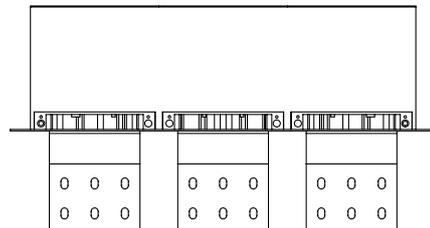
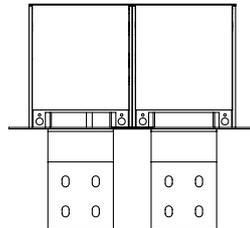
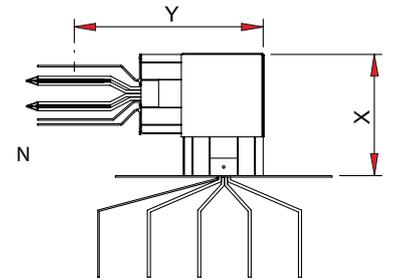
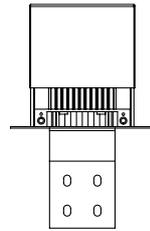


## GSA

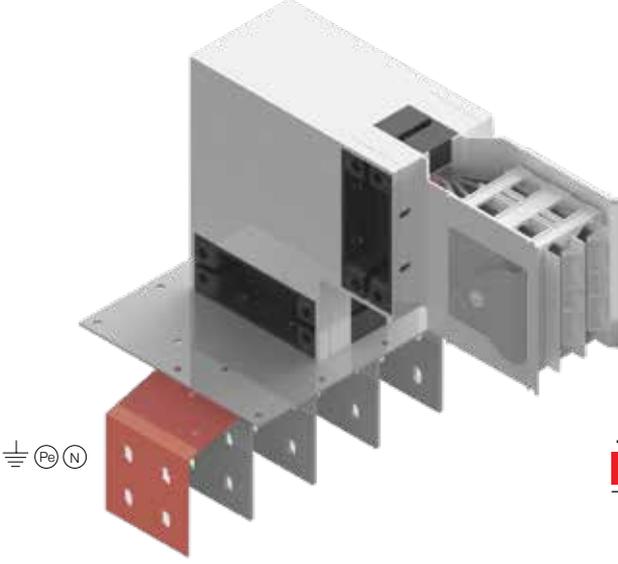
Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GSA PVE 04LL	984104005520052	400	245	380	14.45
GSA PVE 05LL	984105015520052	500	245	380	14.45
GSA PVE 06LL	984106315520052	630	245	380	14.45
GSA PVE 08LL	984108015520052	800	245	380	14.45
GSA PVE 10LL	984110015520052	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



PANO - TRAF0 ÜSTÜ 90° YATAY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE Panel - Transformer Side 90° Horizontal Elbow Element (Right) 3P+N+1/2 PE

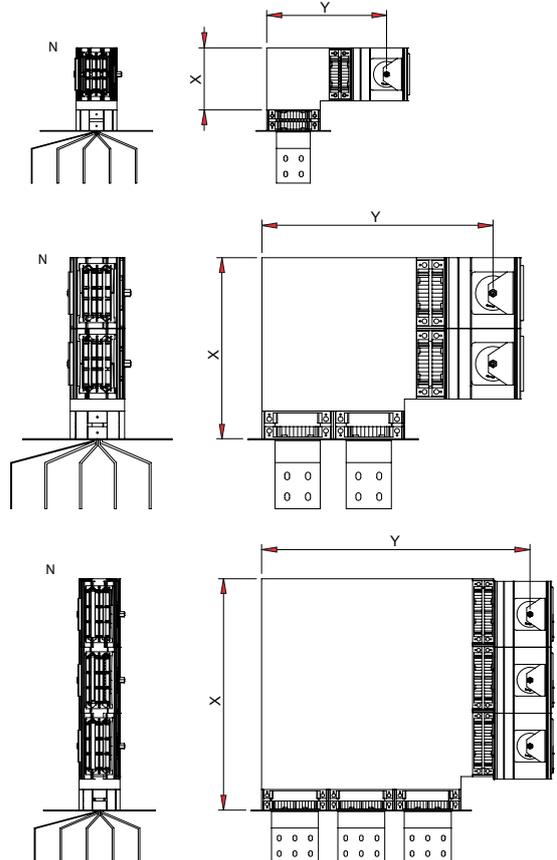


### GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Ağırlık (Kg/Ad.) 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



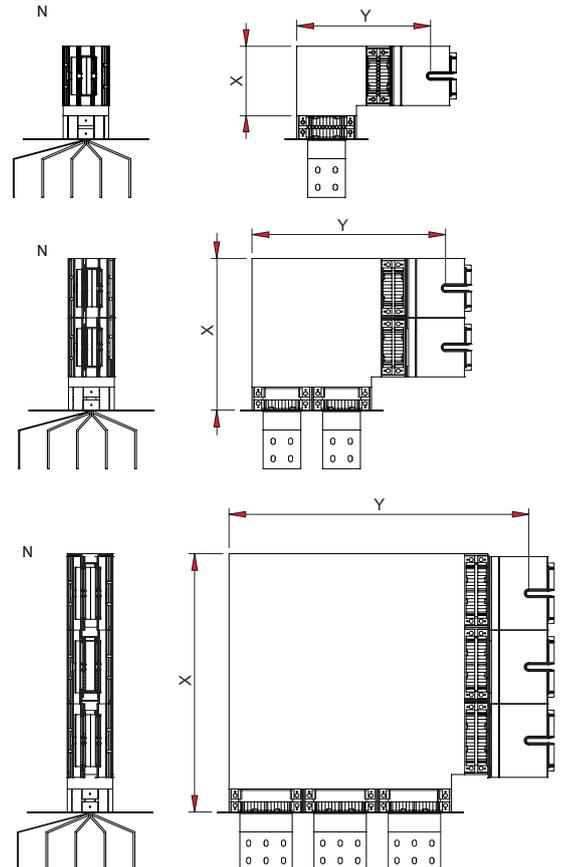
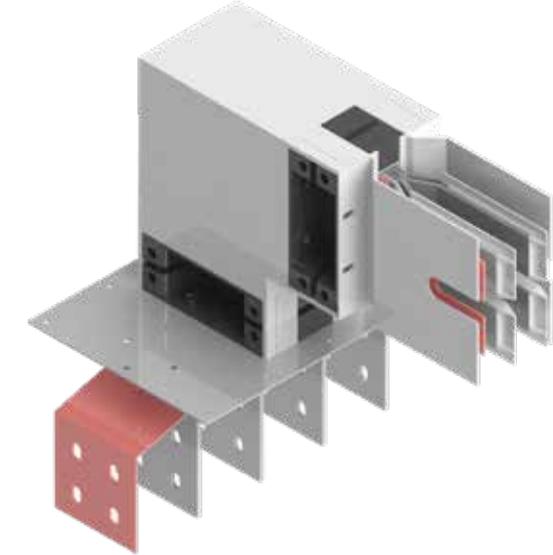
## PANO - TRAFÖ ÜSTÜ 90° YATAY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE Panel - Transformer Side 90° Horizontal Elbow Element (Left) 3P+N+1/2 PE

## GSA

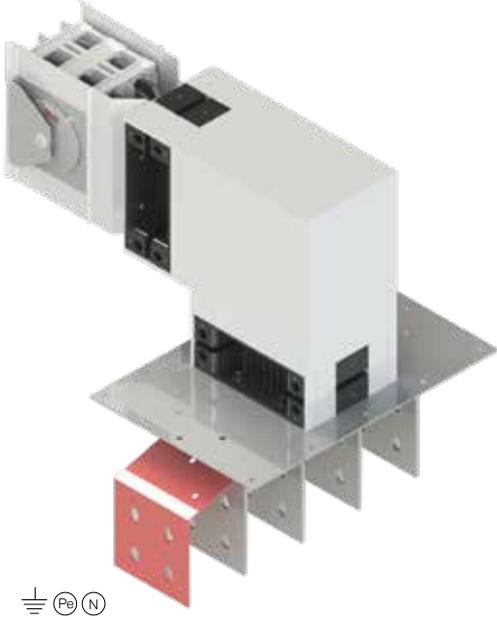
Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GSA PHE 04RL	984404005520051	400	235	370	15.43
GSA PHE 05RL	984405015520051	500	235	370	15.43
GSA PHE 06RL	984406315520051	630	235	370	15.43
GSA PHE 08RL	984408015520051	800	235	370	15.43
GSA PHE 10RL	984410015520051	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



PANO - TRAFO ÜSTÜ 90° YATAY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE Panel - Transformer Side 90° Horizontal Elbow Element (Right) 3P+N+1/2 PE

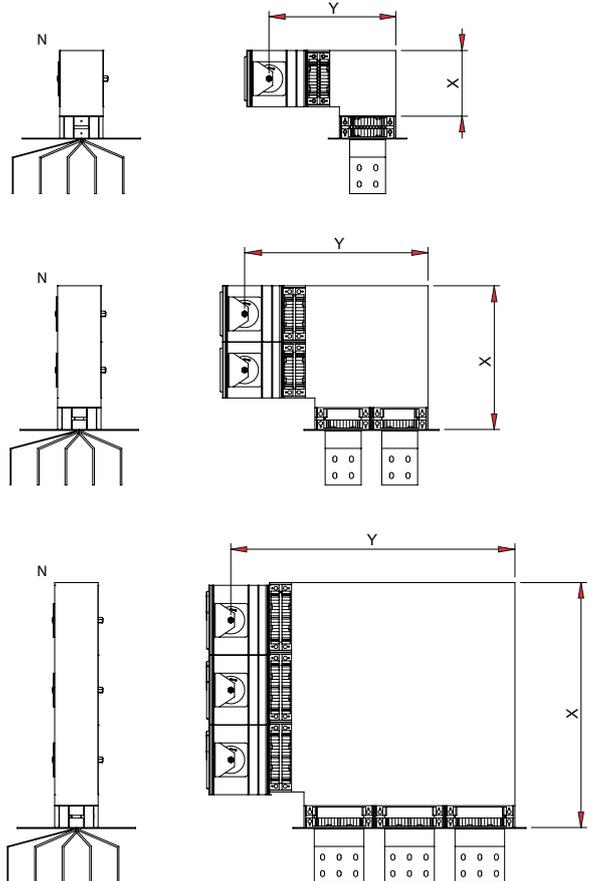


### GSA

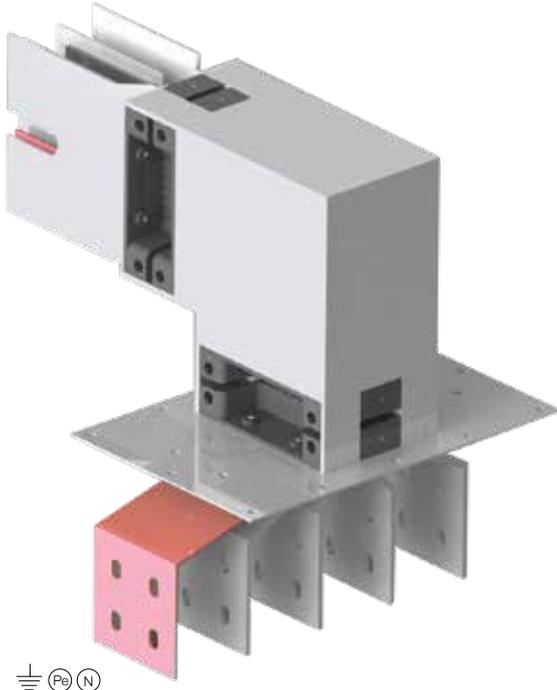
Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GSA PHE 04LR	984504005520050	400	235	370	17.74
GSA PHE 05LR	984505015520050	500	235	370	17.74
GSA PHE 06LR	984506315520050	630	235	370	17.74
GSA PHE 08LR	984508015520050	800	235	370	17.74
GSA PHE 10LR	984510015520050	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



## PANO - TRAFÖ ÜSTÜ 90° YATAY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE Panel - Transformer Side 90° Horizontal Elbow Element (Left) 3P+N+1/2 PE

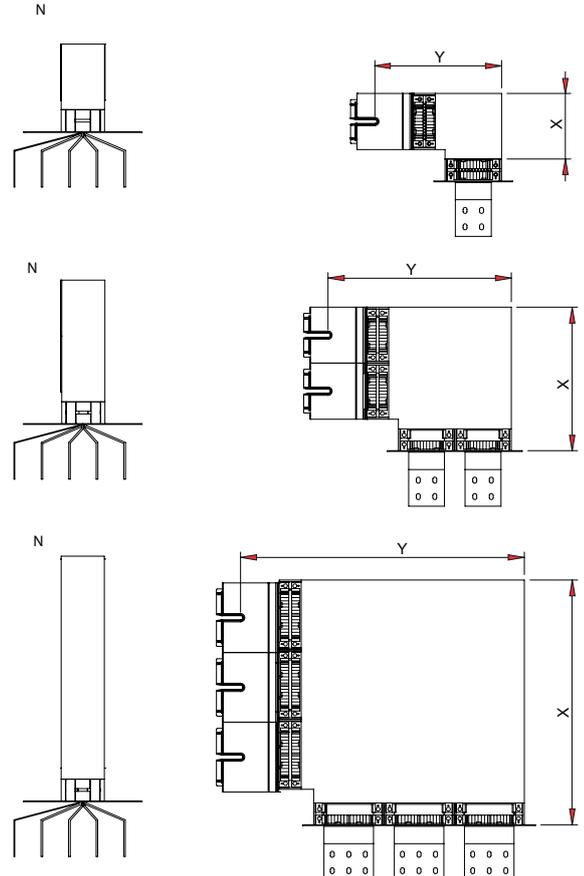


## GSA

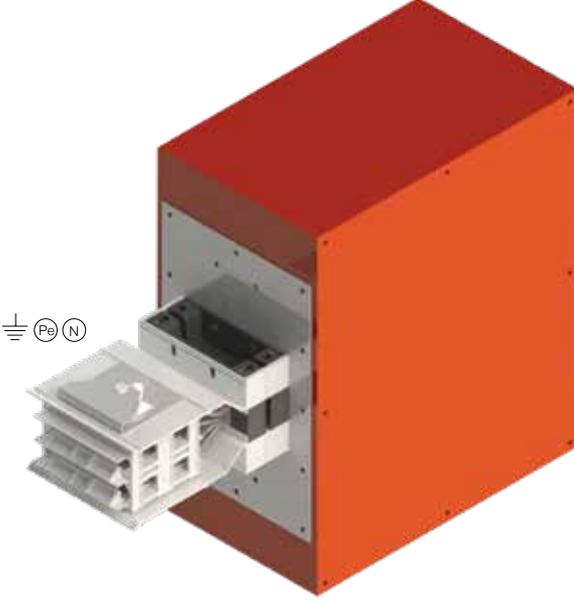
Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GSA PHE 04LL	984504005520052	400	235	370	15.43
GSA PHE 05LL	984505015520052	500	235	370	15.43
GSA PHE 06LL	984506315520052	630	235	370	15.43
GSA PHE 08LL	984508015520052	800	235	370	15.43
GSA PHE 10LL	984510015520052	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



### BESLEME ELEMANI (SAĞ) 3P+N+1/2 PE Feed Unit (Right) 3P+N+1/2 PE



Şalter montajlı üretim için siparişte bilgi veriniz.  
It is available to use with circuit breaker. Please inform this when ordering.

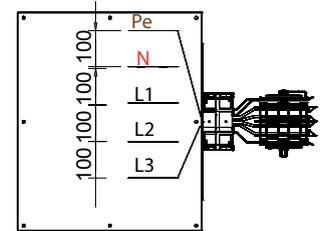
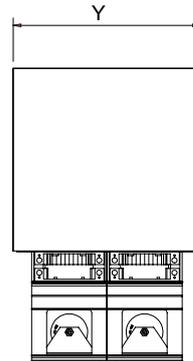
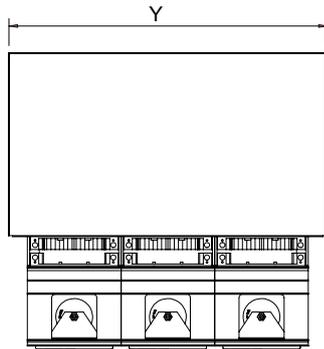
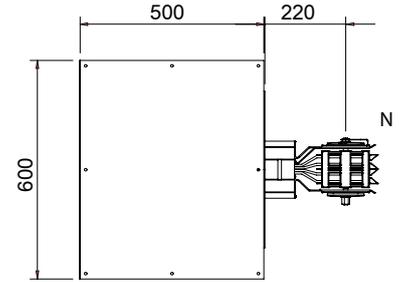
\* Besleme kutularının rekorları için lütfen kablo kesiti bildiriniz.  
\* Please specify cable dimensions for feed unit box's cable glands.

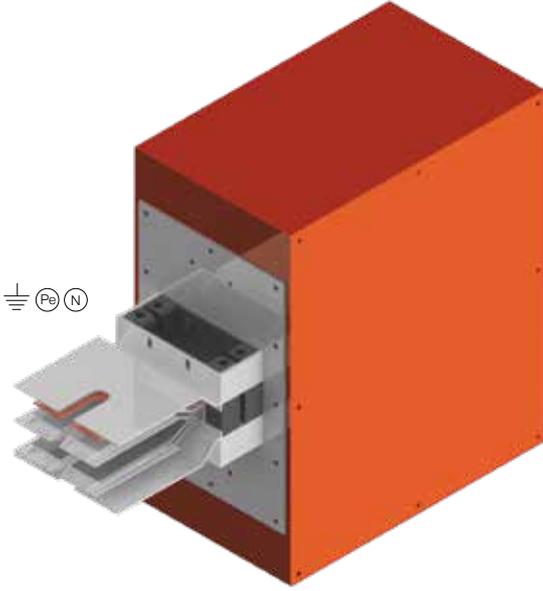
#### GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Y mm	Ağırlık (Kg/Ad.) 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



BESLEME ELEMANI (SOL) 3P+N+1/2 PE *Feed Unit (Left) 3P+N+1/2 PE*

Şalter montajlı üretim için siparişte bilgi veriniz.  
It is available to use with circuit breaker. Please inform this when ordering.

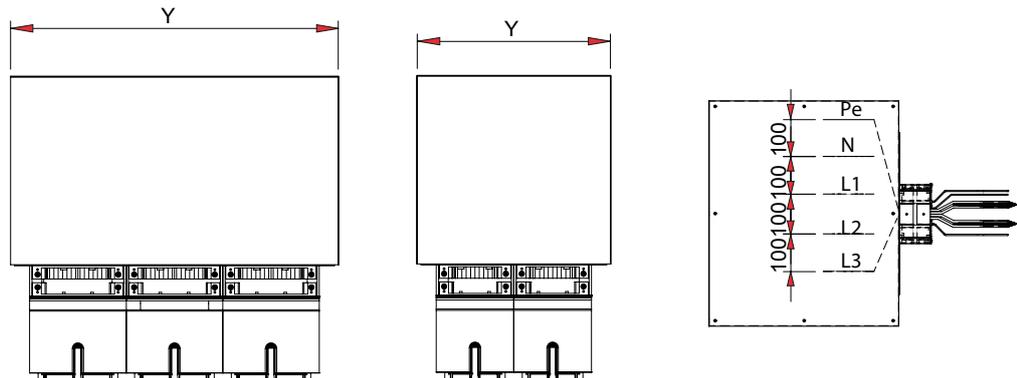
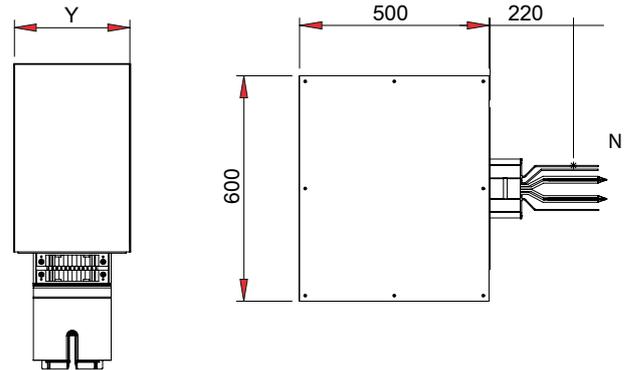
\* Besleme kutularının rekorları için lütfen kablo kesiti bildiriniz.  
\* Please specify cable dimensions for feed unit box's cable glands.

## GSA

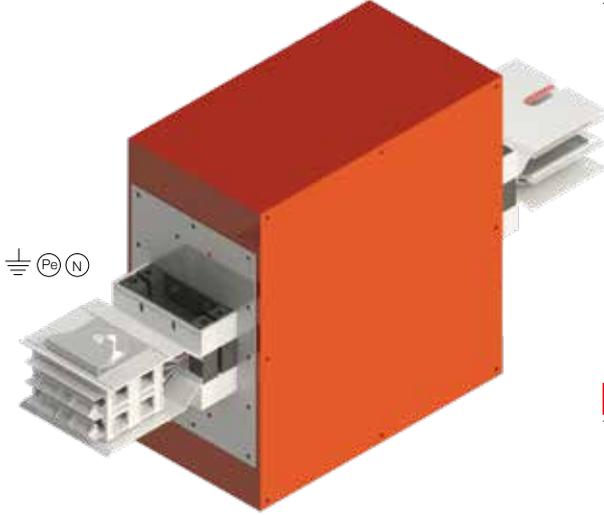
Sipariş kodu Order code	Stok kodu Stock code	Amper A	Y mm	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GSA FE 04L	981504005520051	400	215	20.89
GSA FE 05L	981505015520051	500	215	20.89
GSA FE 06L	981506315520051	630	215	20.89
GSA FE 08L	981508015520051	800	215	20.89
GSA FE 10L	981510015520051	1000	230	21.46
GSA 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



### ORTADAN BESLEME ELEMANI 3P+N+1/2 PE Centre Feed Unit 3P+N+1/2 PE

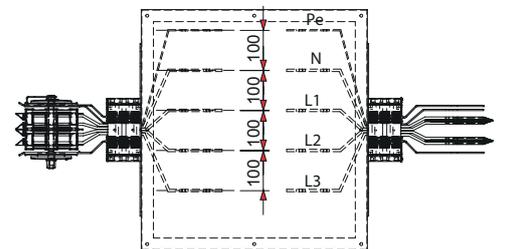
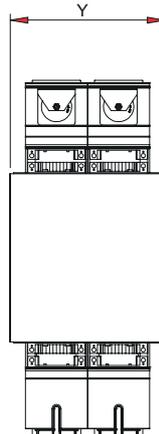
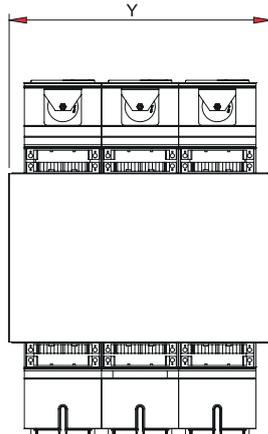
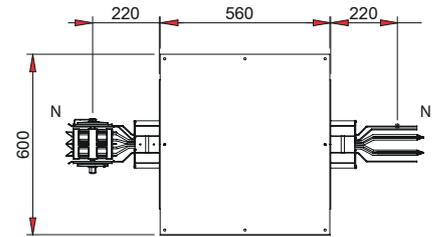


#### GSA

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



ESNEK BARA *Flexible Bars*

Trafo ve pano terminallerinin ara bağlantılarında kullanılmak üzere imal edilmektedir.  
They can be manufactured for connections of transformer and panel terminals.

## GSA

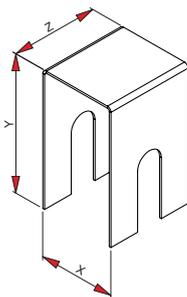
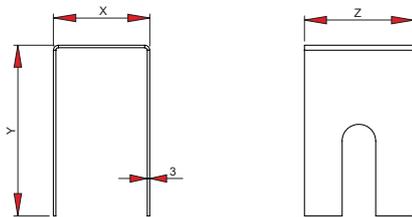
Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GSA FLX 04	982604005510041	400	3.50
GSA FLX 05	982605015510041	500	3.50
GSA FLX 06	982606315510041	630	3.50
GSA FLX 08	982608015510041	800	3.50
GSA FLX 10	982610015510041	1000	4.00
GSA FLX 12	982612515510041	1250	5.80
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

## TOPRAK SÜREKLİLİK BARASI

## Earth Continuity Coupler



Toprak sürekliliği sağlamak üzere üretilmektedir.  
They can be manufactured for provide to earth continuity.

## GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Z mm	Ağırlık (Kg/Ad.) 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

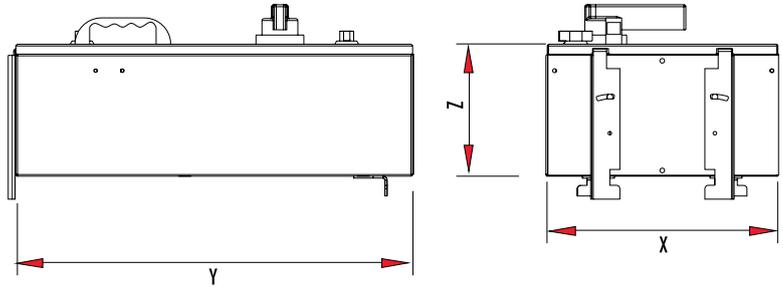
ÇIKIŞ KUTULARINDA KOMPAKT ŞALTER VE NH BUŞON DAHİL DEĞİLDİR.  
Tap-off Boxes do not include MCCB and NH Fuse

### PLUG-IN ÇIKIŞ KUTUSU *Plug-in Tap-off Box*



#### GSA- PLUG-IN ÇIKIŞ KUTUSU *GSA-Plug-in Tap-off Box*

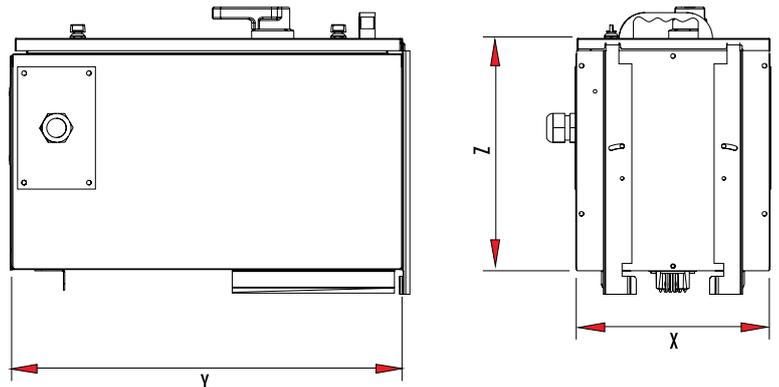
Sipariş kodu Order code	Stok kodu Stock code	Amper A A	Kesici Tipi Breaker Type	X mm	Y mm	Z mm	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
P-SYK160	914801605510043	160	SYK	350	600	250	29.930
P-SYK250	914802505510043	250	SYK	400	700	300	36.980
P-SYK400	914804005510043	400	SYK	400	700	300	39.490
P-SYK630	914806305510043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



### PLUG-IN ÇIKIŞ KUTUSU *Plug-in Tap-off Box*



Sipariş kodu Order code	Stok kodu Stock code	Amper A A	Kesici Tipi Breaker Type	X mm	Y mm	Z mm	Ağırlık (Kg/Ad.) 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

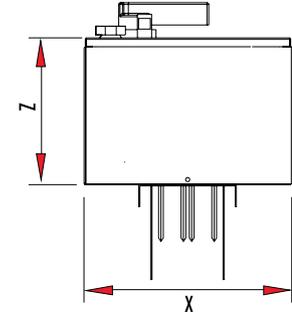
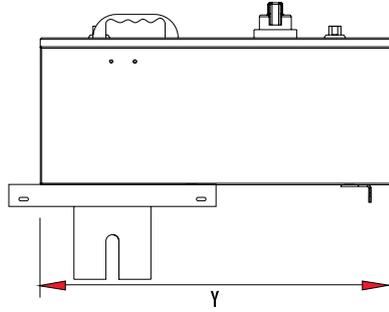


BOLT-ON ÇIKIŞ KUTUSU *Bolt-on Tap-off Box*GSA- BOLT-ON ÇIKIŞ KUTUSU *GSA-Bolt-on Tap-off Box*

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Kesici Tipi Breaker Type	X mm	Y mm	Z mm	Ağırlık (Kg/Ad.) 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 ÇIKIŞ KUTUSU *GSC-Bolt-on Tap-off Box*

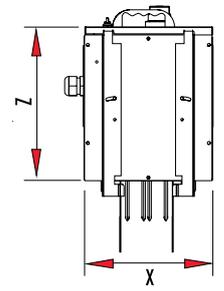
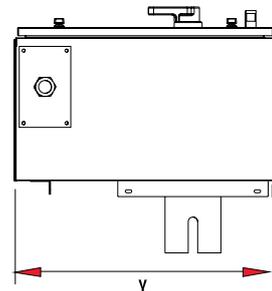
Sipariş kodu Order code	Stok kodu Stock code	Amper A	Kesici Tipi Breaker Type	X mm	Y mm	Z mm	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
BX-SYK160	914801605510042	160	SYK	350	600	250	29.930
BX-SYK250	914802505510042	250	SYK	400	700	300	36.980
BX-SYK400	914804005510042	400	SYK	400	700	300	39.490
BX-SYK630	914806305510042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

BOLT-ON ÇIKIŞ KUTUSU *Bolt-on Tap-off Box*GSA- BOLT-ON ÇIKIŞ KUTUSU *GSA-Bolt-on Tap-off Box*

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Kesici Tipi Breaker Type	X mm	Y mm	Z mm	Ağırlık (Kg/Ad.) 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 ÇIKIŞ KUTUSU *GSC-Bolt-on Tap-off Box*

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Kesici Tipi Breaker Type	X mm	Y mm	Z mm	Ağırlık (Kg/Ad.) 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



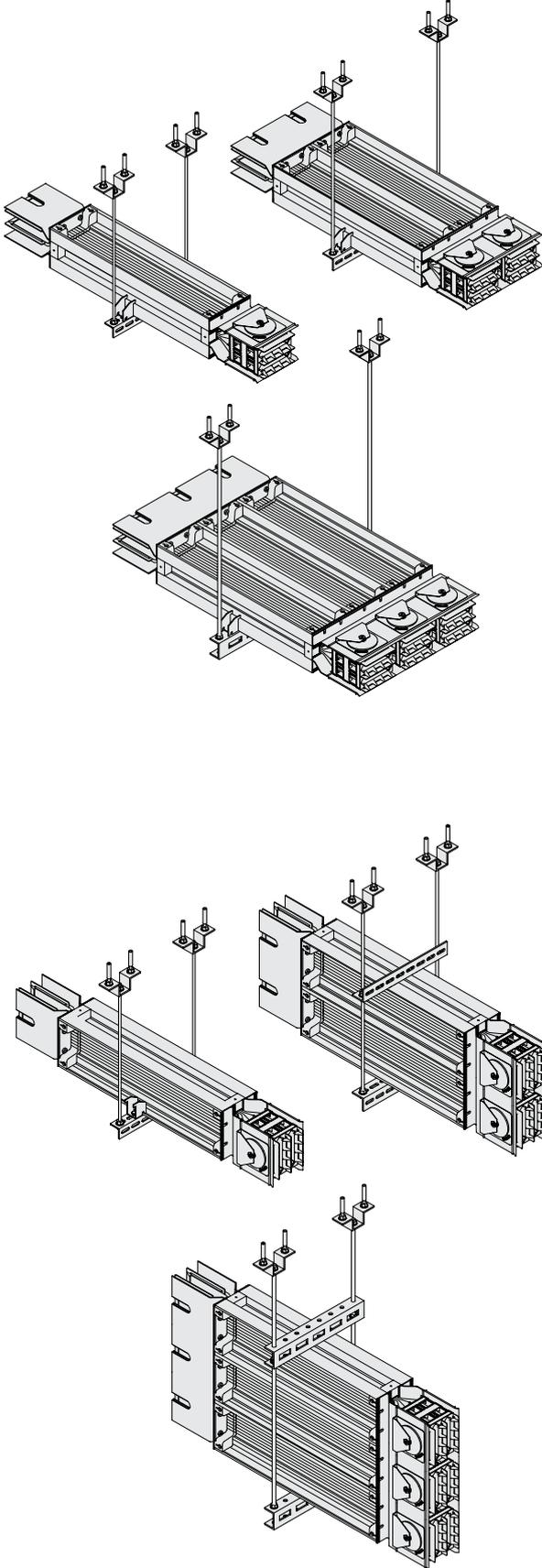
D.F. (α)

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

### YATAY ASKI TAKIMI *Horizontal Supporting Hangers*



#### GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg./Ad.) 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

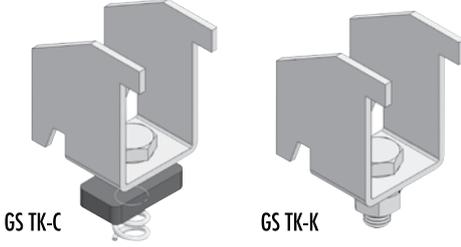
#### GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg./Ad.) 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

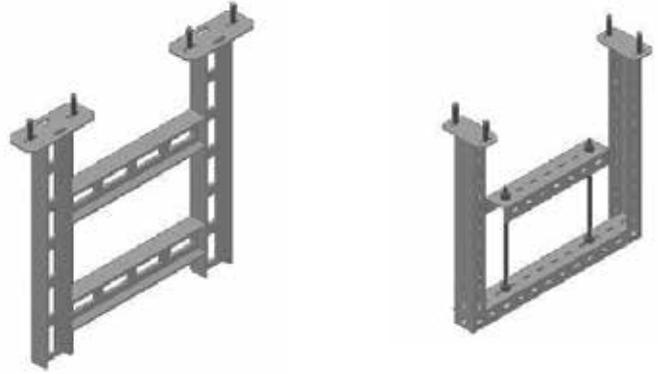
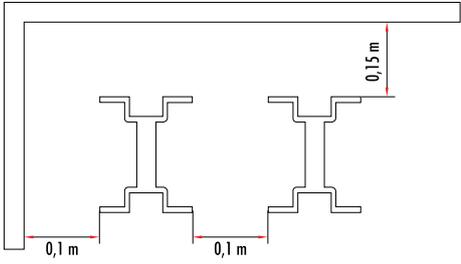
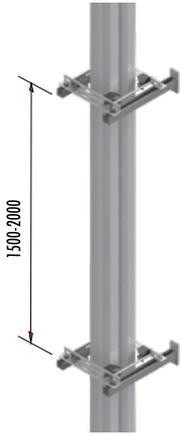
#### GSC

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

Önerilen destek aralığı 1.2-2m'dir.  
Suggested support distance is between 1.2-2m.

BUSBAR TESPİT ELEMANI *Fixing Hanger*

Sipariş kodu Order code	Stok kodu Stock code	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
GS TK-C	98270000060043	0.20
GS TK-K	98270000060044	0.18

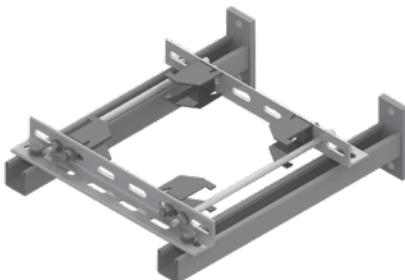
DİKEY ASKI TAKIMI *Vertical Supporting Hangers*

## GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg/Ad.) 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

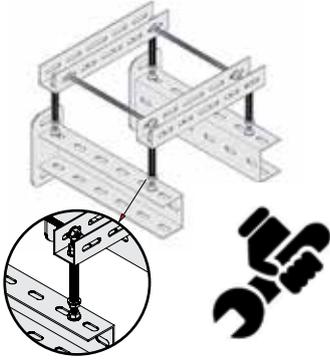
## GSC

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



### DİKEY ASKI TAKIMI

### Vertical Supporting Hangers



Ayarı somunu ile yükü dengeleyiniz.  
Balance the weight by adjustment nut.



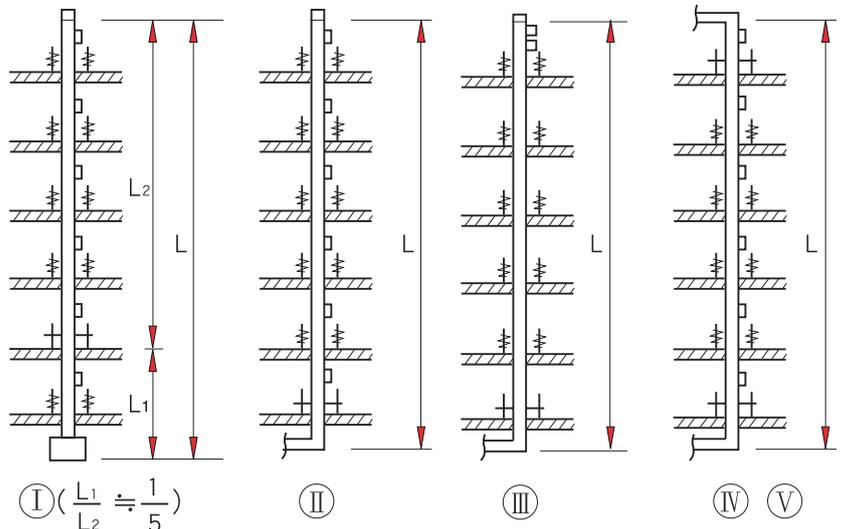
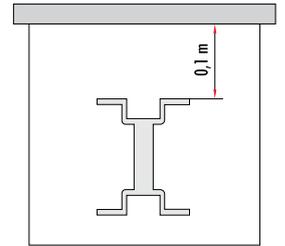
### GSA

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg/Ad.) 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

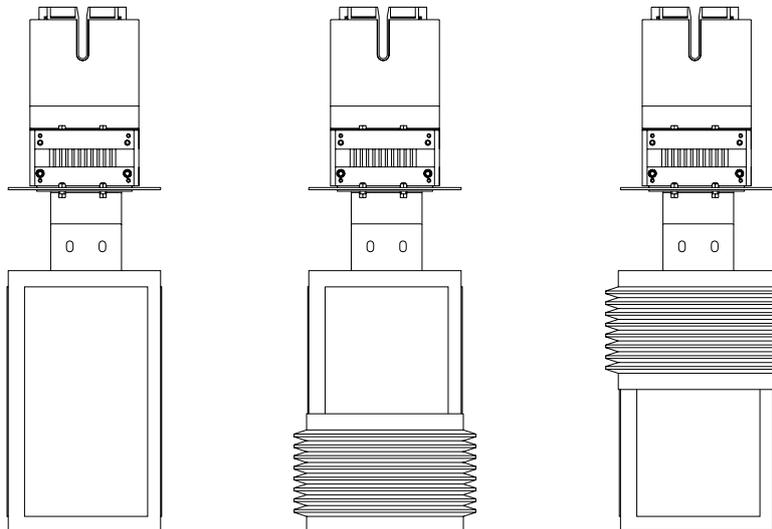
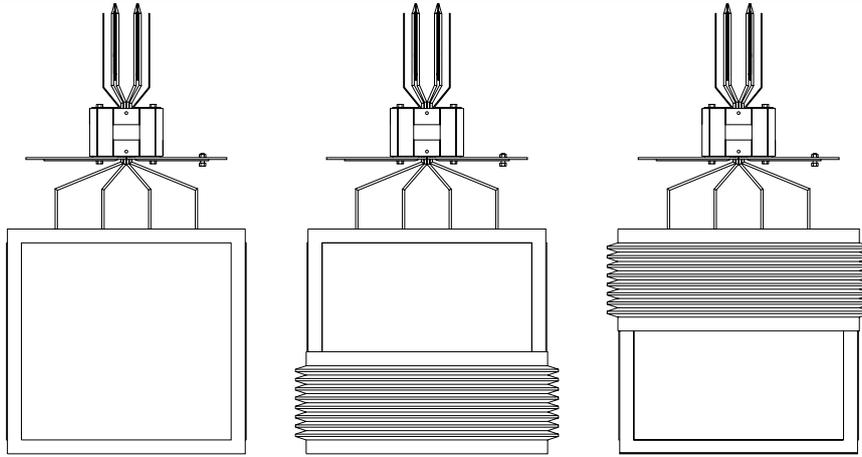
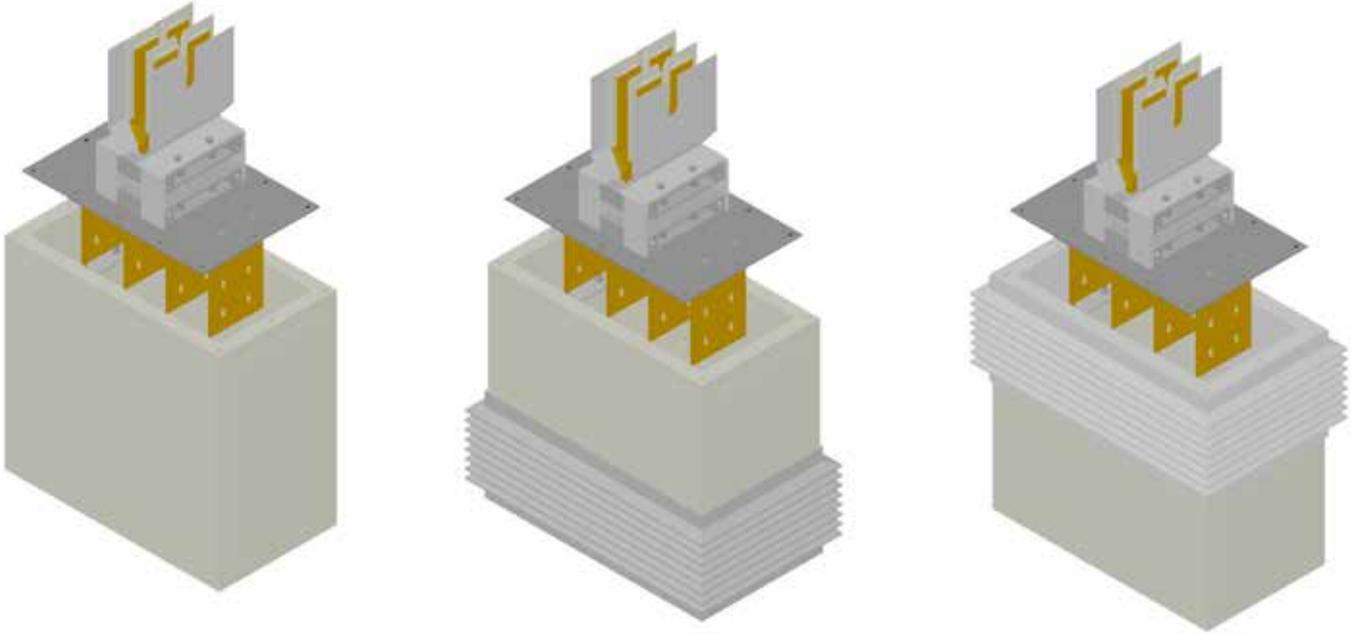
### GSC

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)



**PANO ve TRAF0 ÜSTÜ ELEMANININ TEKNİK DETAYLARI** *Technical Details of Switchboard Feed and Transformer Side Element*



### GSA TEKNİK BİLGİLER GSA- Technical Details

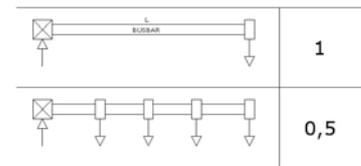
		GSA 400A	GSA 500A	GSA 630A	GSA 800A	GSA 1000A	GSA 1250A	GSA 1600A	GSA 2000A	GSA 2500A	GSA 3200A	GSA 4000A	GSA 5000A	GSA 6300A	
Nominal Akım Rated Current	In	400	500	630	800	1000	1250	1600	2000	2500	3200	4000	5000	6300	A
Uygulama Gerilimi Operational Voltage	Ue	1000													V
İzolasyon Gerilimi Insulation Voltage	Ui	1000													V
Frekans Frequency	f	50-60 (AC/DC)													Hz
Faz Kesiti Cross Section Of Phases	Sf	240	240	240	240	330	450	780	1080	1320	1560	2160	3240	4320	mm <sup>2</sup>
Nötr Kesiti Cross Section Of Neutral	SN	240	240	240	240	330	450	780	1080	1320	1560	2160	3240	4320	mm <sup>2</sup>
Toprak Barasının Kesiti Cross Section Of Earth Bar	SPE	120	120	120	120	165	225	390	540	660	780	1080	1620	2160	mm <sup>2</sup>
Alüminyum Kasa Kesiti Cross Section Of Aluminium Housing	SH	1280	1280	1280	1280	1354	1450	2390	2603	4590	4780	5206	7810	10412	mm <sup>2</sup>
Faz Kısa Devre Akımı (1 sn) Short-Circuit Current of Phases (1 sn)	Icw	50	50	50	50	50	65	65	65	90	100	120	150	150	kA
Faz Pik Akımı Peak Current of Phases	Ipk	110	110	110	110	110	150	150	150	200	220	264	330	330	kA
Nötr Kısa Devre Akımı (1 sn) Short-Circuit Current of Neutral (1 sn)	Icw	30	30	30	30	30	40	40	40	54	63	72	90	90	kA
Nötr Pik Akımı Peak Current of Neutral	Ipk	63	63	63	63	63	92	92	92	120	132	158	198	198	kA
Faz Direnci 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
Faz Direnci Phases Resistance	R <sub>1</sub>	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
Faz Reaktansı Phases Reactance	X <sub>1</sub>	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
Faz Empedansı Phases Impedance	Z <sub>1</sub>	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

Konsantre Yük ile Gerilim Düşümü Hesabı  
Voltage drop with concentrated end line load

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

$\Delta V$	Gerilim Düşümü (V)	Voltage drop
$\alpha$	Yük Dağılım Katsayısı	Current distribution factor
L	Hat Uzunluğu (m)	Duct length
I <sub>n</sub>	Hat akımı (A)	Use current (A)
R	Karakteristik Direnç (m/m)	Phase resistance per unit length of the Busbar
X <sub>L</sub>	Endüktif Reaktans (m/m)	Phase reactance per unit length of the Busbar
cos φ	Güç Faktörü	Average load power factor

Yük Dağılım Katsayısı (α)  
Load Distribution Constant (α)



## GSC TEKNİK BİLGİLER

## GSC- Technical Details

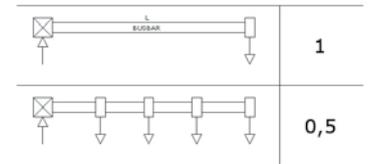
		GSC 400A	GSC 500A	GSC 630A	GSC 800A	GSC 1000A	GSC 1250A	GSC 1600A	GSC 2000A	GSC 2500A	GSC 3200A	GSC 4000A	GSC 5000A	GSC 6300A	
Nominal Akım Rated Current	In	400	500	630	800	1000	1250	1600	2000	2500	3200	4000	5000	6300	A
Uygulama Gerilimi Operational Voltage	Ue	1000													V
İzolasyon Gerilimi Insulation Voltage	Ui	1000													V
Frekans Frequency	f	50-60 (AC/DC)													Hz
Faz Kesiti Cross Section Of Phases	Sf	240	240	240	240	240	330	450	660	900	1320	1560	1980	3240	mm <sup>2</sup>
Nötr Kesiti Cross Section Of Neutral	SN	240	240	240	240	240	330	450	660	900	1320	1560	1980	3240	mm <sup>2</sup>
Toprak Barasının Kesiti Cross Section Of Earth Bar	SPE	120	120	120	120	120	165	225	330	450	660	780	990	1620	mm <sup>2</sup>
Alüminyum Kasa Kesiti Cross Section Of Aluminium Housing	SH	1280	1280	1280	1280	1280	1354	2390	2390	4590	4590	4780	6885	7810	mm <sup>2</sup>
Faz Kısa Devre Akımı (1 sn) Short-Circuit Current of Phases (1 sn)	Icw	50	50	50	50	50	65	65	80	80	120	120	150	150	kA
Faz Pik Akımı Peak Current of Phases	Ipk	110	110	110	110	110	150	150	175	175	264	264	330	330	kA
Nötr Kısa Devre Akımı (1 sn) Short-Circuit Current of Neutral (1 sn)	Icw	30	30	30	30	30	40	40	50	50	72	72	90	90	kA
Nötr Pik Akımı Peak Current of Neutral	Ipk	63	63	63	63	63	92	92	100	100	158	158	198	198	kA
Faz Direnci 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
Faz Direnci Phases Resistance	R <sub>1</sub>	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
Faz Reaktansı Phases Reactance	X <sub>1</sub>	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
Faz Empedansı Phases Impedance	Z <sub>1</sub>	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

Konsantre Yük ile Gerilim Düşümü Hesabı  
Voltage drop with concentrated end line load

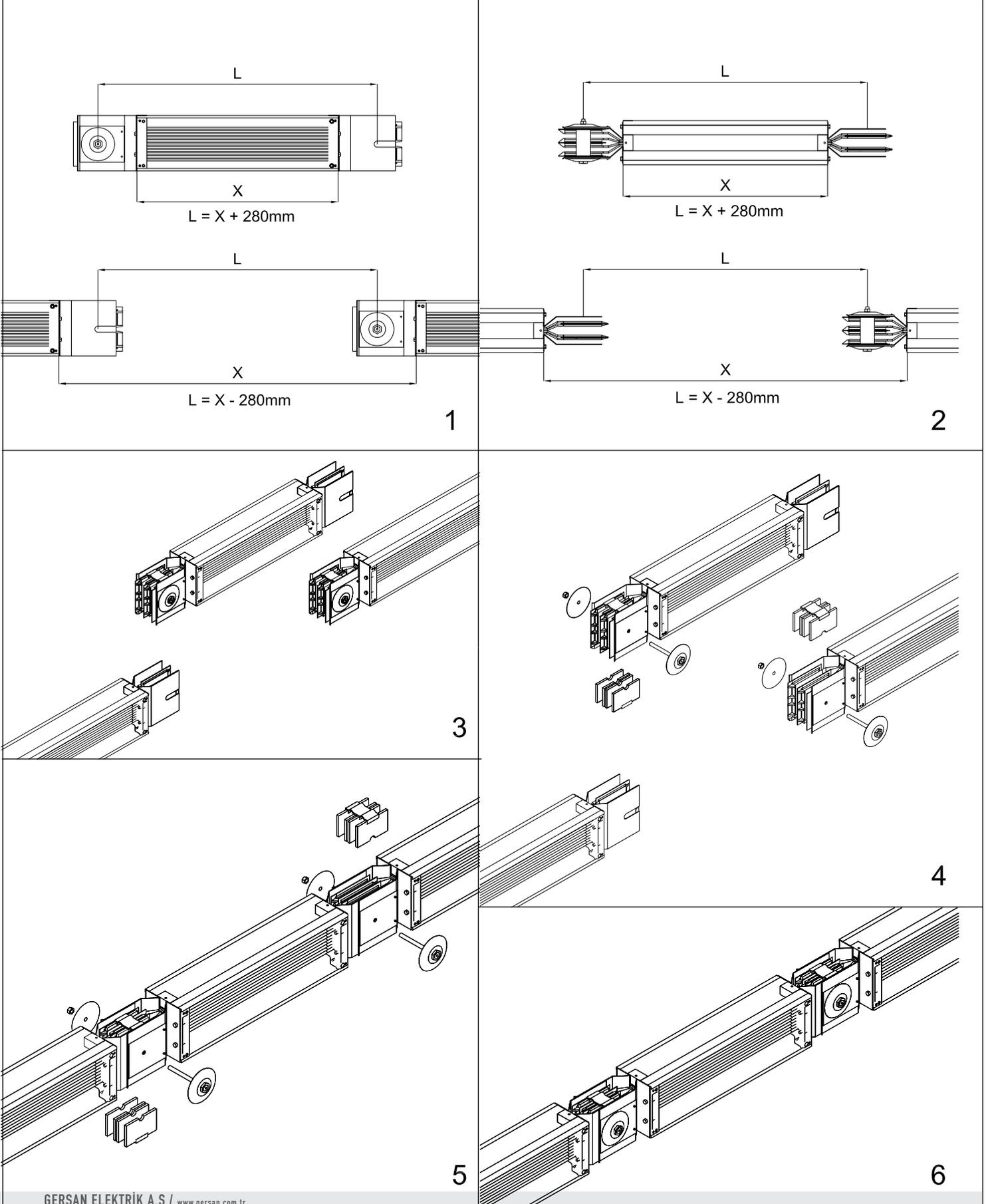
$$\Delta V = \alpha \sqrt{3} I_n L (R \cos \varphi + X_L \sin \varphi) 10e-3$$

$\Delta V$	Gerilim Düşümü (V)	Voltage drop
$\alpha$	Yük Dağılım Katsayısı	Current distribution factor
L	Hat Uzunluğu (m)	Duct length
I <sub>n</sub>	Hat akımı (A)	Use current (A)
R	Karakteristik Direnç (m/m)	Phase resistance per unit length of the Busbar
X <sub>L</sub>	Endüktif Reaktans (m/m)	Phase reactance per unit length of the Busbar
cosφ	Güç Faktörü	Average load power factor

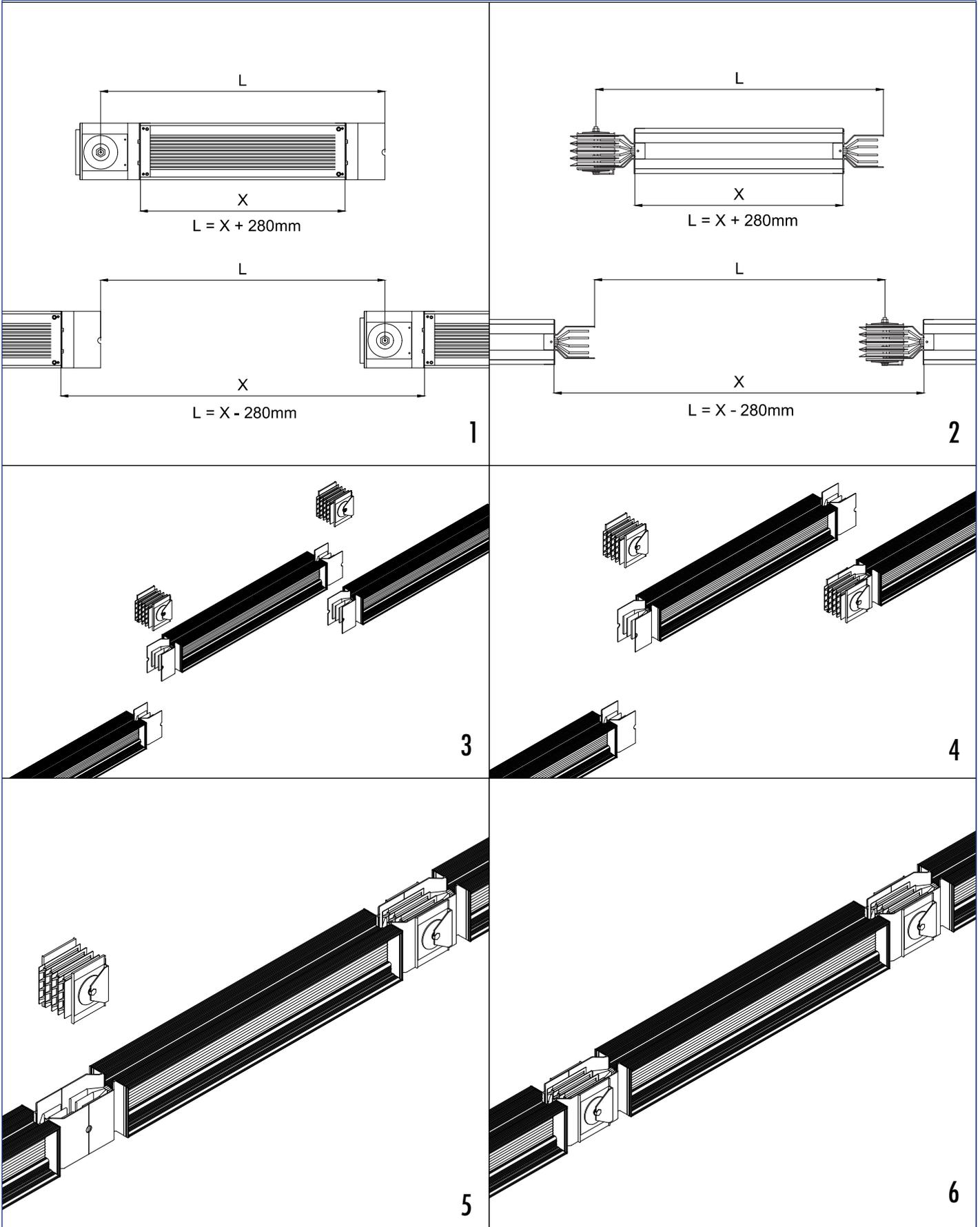
Yük Dağılım Katsayısı (α)  
Load Distribution Constant (α)



### GS SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ GS Super Compact Busbar Trunking Systems

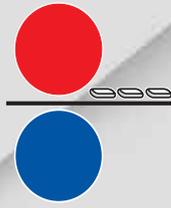


**GS SÜPER COMPACT MONOBLOK BUSBAR KANAL SİSTEMLERİ**  
*GS Super Compact Monoblock Busbar Trunking Systems*



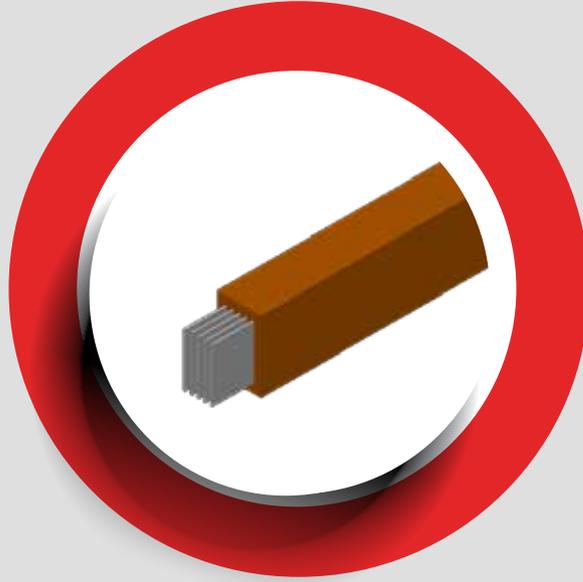


since  
1980



# GERSAN

ELEKTRİK TİC. ve SAN. A.Ş.



## GR (A.G.-O.G.) GR-Cast Resin (L.V.-M.V.)



ASTA



KEMA

VNL  
EIKI



CE

ERC

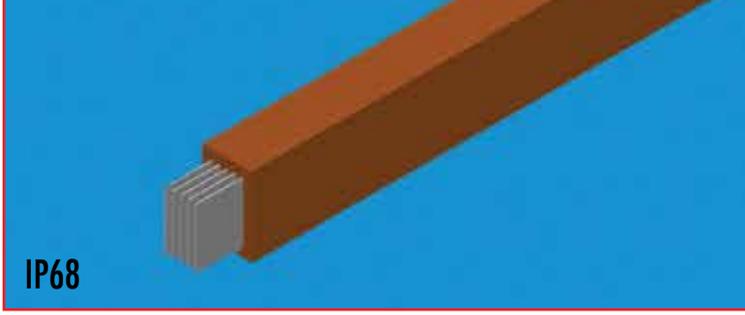


ISO 9001 / ISO 14001  
ISO 45001





GR 500~6000A



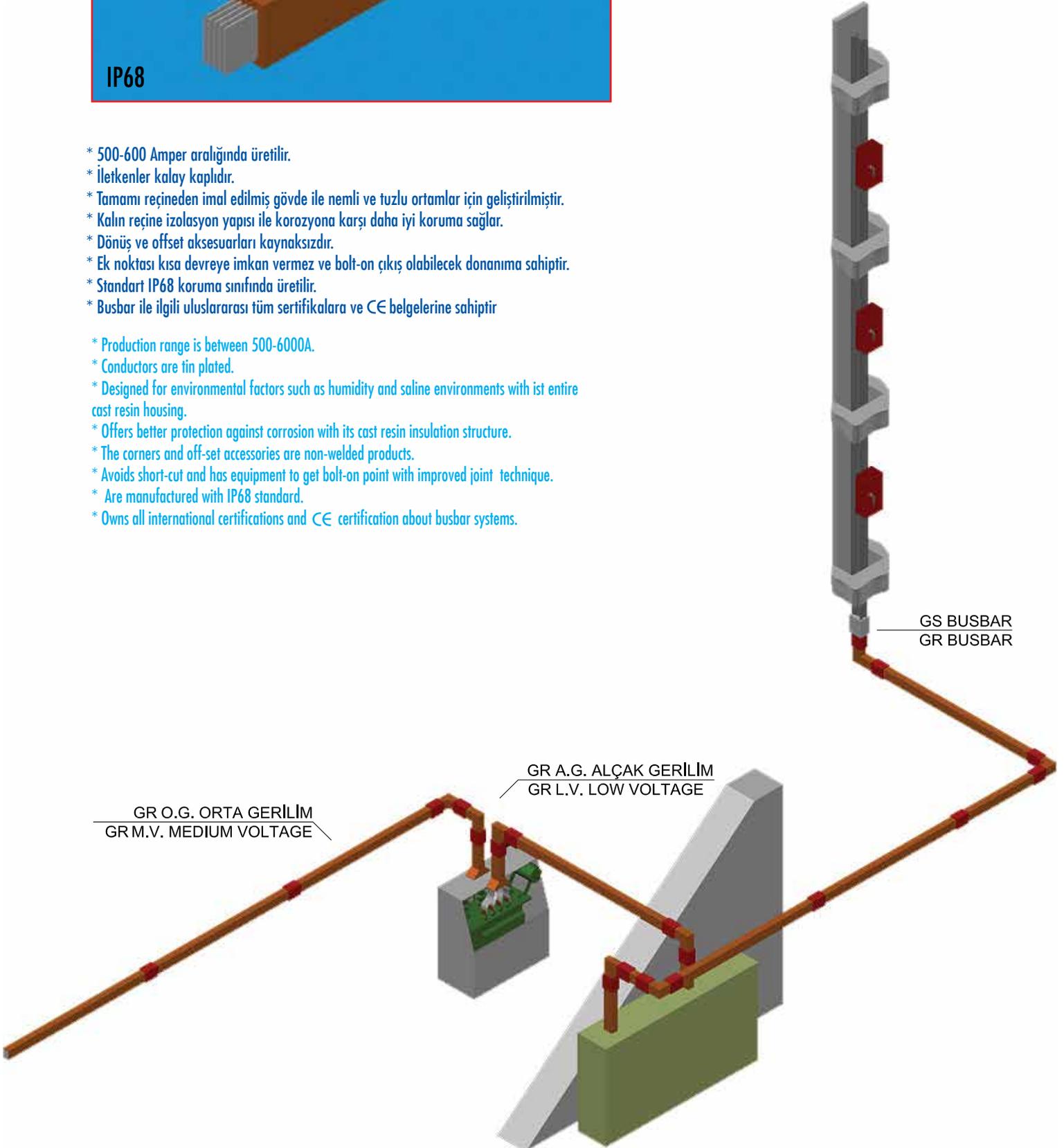
IP68

- \* 500-600 Amper aralığında üretilir.
- \* İletkenler kalay kaplıdır.
- \* Tamamı reçineden imal edilmiş gövde ile nemli ve tuzlu ortamlar için geliştirilmiştir.
- \* Kalın reçine izolasyon yapısı ile korozyona karşı daha iyi koruma sağlar.
- \* Dönüş ve offset aksesuarları kaynaklıdır.
- \* Ek noktası kısa devreye imkan vermez ve bolt-on çıkışı olabilecek donanıma sahiptir.
- \* Standart IP68 koruma sınıfında üretilir.
- \* Busbar ile ilgili uluslararası tüm sertifikalara ve CE belgelerine sahiptir
- \* Production range is between 500-6000A.
- \* Conductors are tin plated.
- \* 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.
- \* 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.
- \* Are manufactured with IP68 standard.
- \* Owns all international certifications and CE certification about busbar systems.

GR O.G. ORTA GERİLİM  
GR M.V. MEDIUM VOLTAGE

GR A.G. ALÇAK GERİLİM  
GR L.V. LOW VOLTAGE

GS BUSBAR  
GR BUSBAR



### GR-A

500A - 5000A

İletken olarak kullanılan malzeme alüminyumdur (EC Grade)  
The conductors used in this serie are Aluminium (EC Grade)

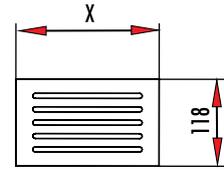
### GR-C

500A - 6000A

İletken olarak kullanılan malzeme elektrolitik bakırdır (%99.9 Safılıkta)  
The conductors used in this serie are electrolytic copper (% 99.9 purity)

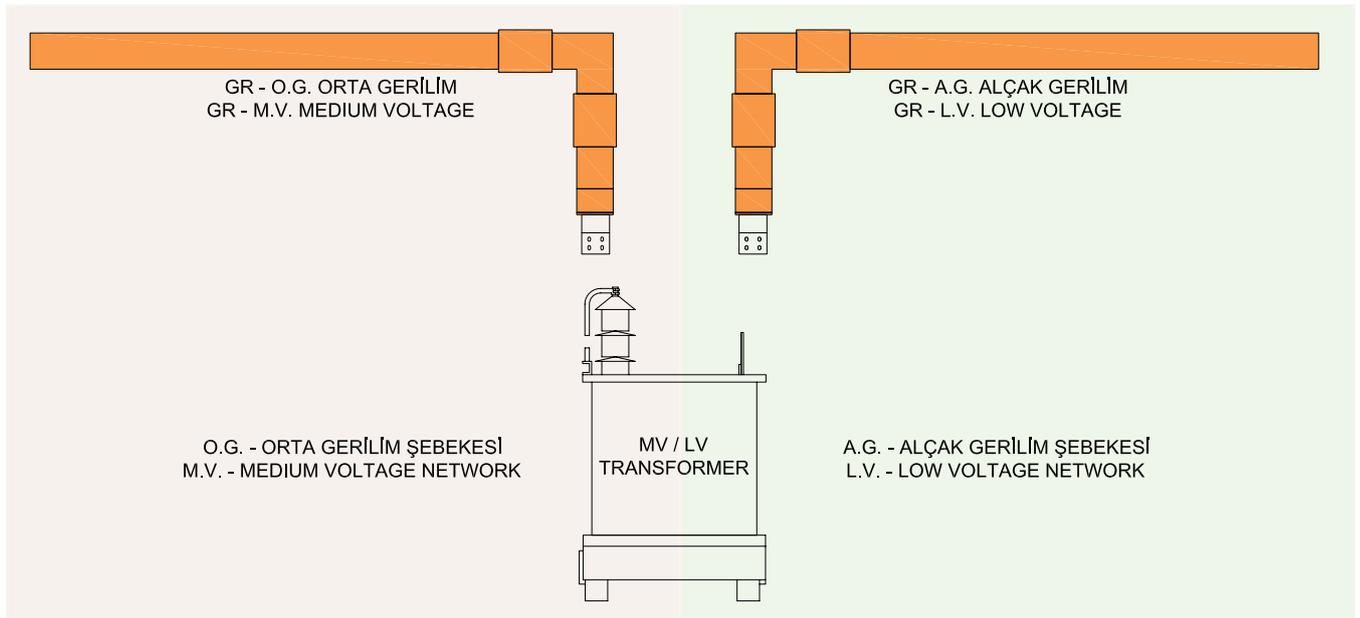
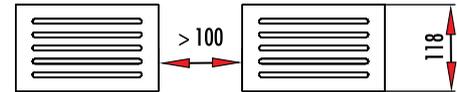
3P / 3P+N / 3P+N+E / 3P+2N+E / 3P+N+2E

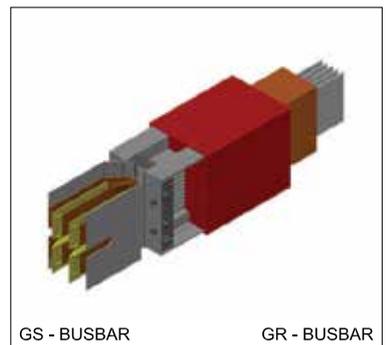
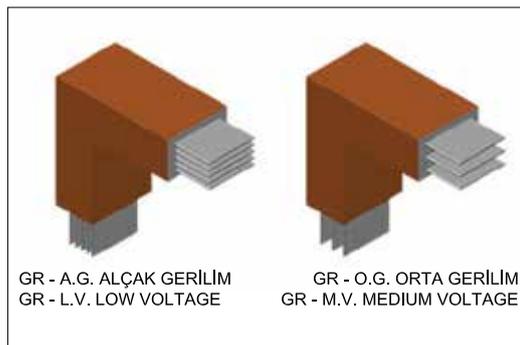
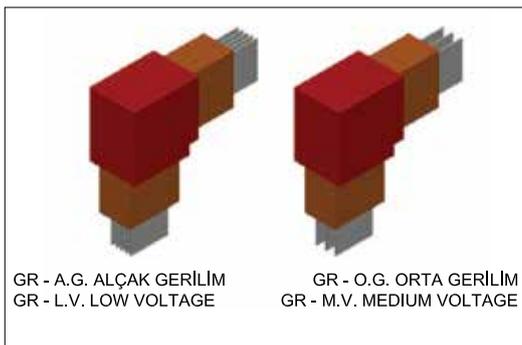
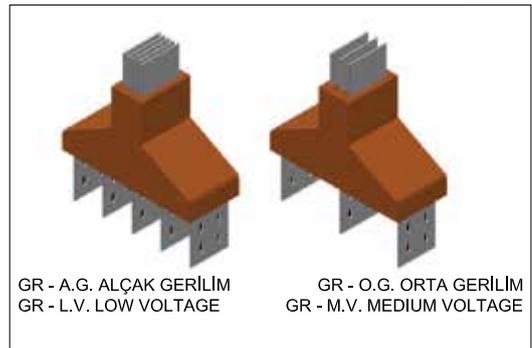
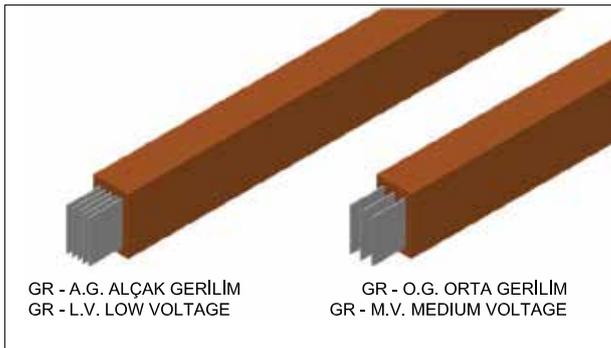
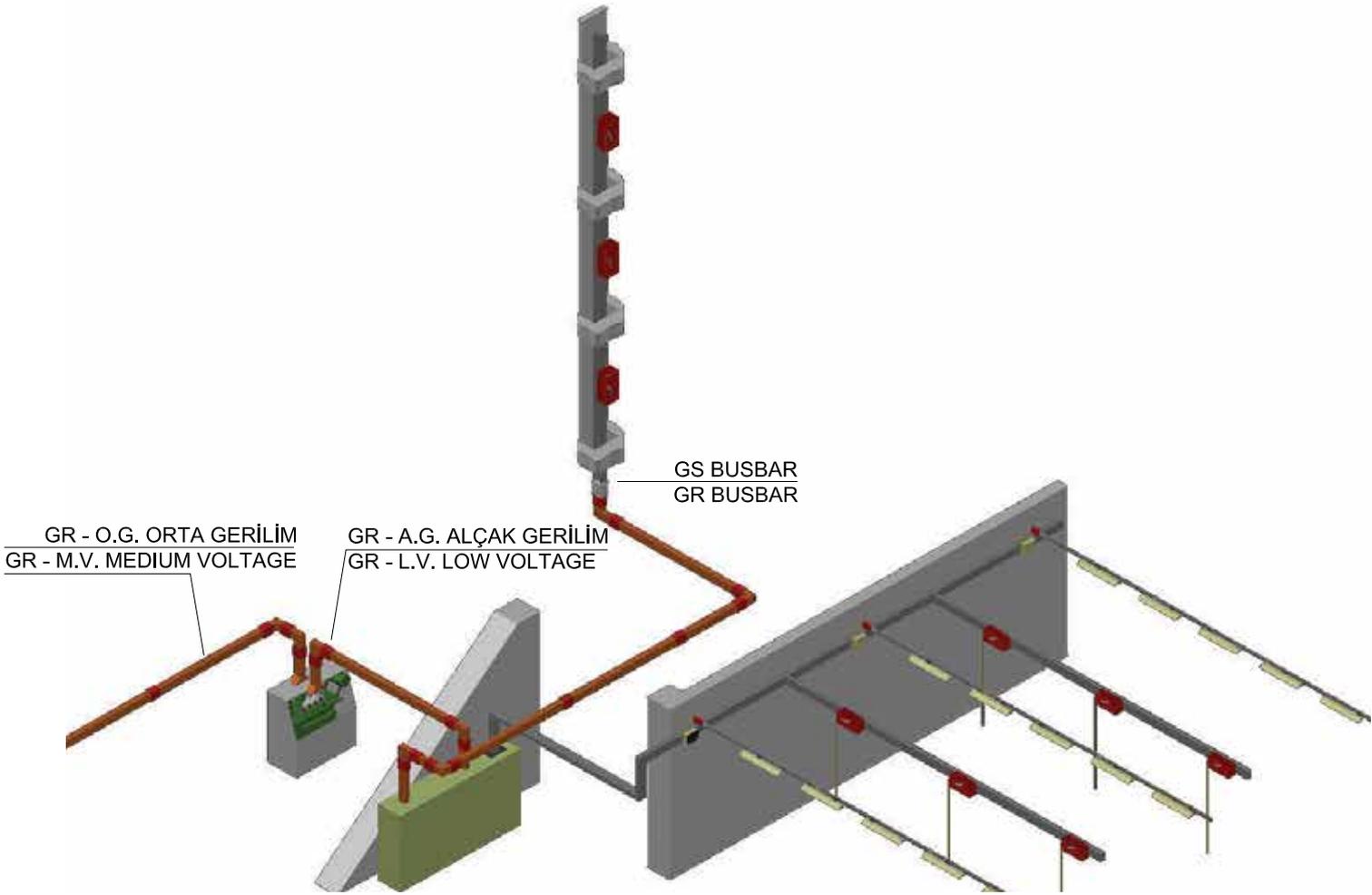
GR-A	GR-C	X mm
	GR-C 500A	170
GR-A 500A	GR-C 630A	170
GR-A 630A	GR-C 800A	170
GR-A 800A	GR-C 1000A	170
GR-A 1000A	GR-C 1250A	170
GR-A 1250A	GR-C 1600A	170
GR-A 1600A	GR-C 2000A	170
GR-A 2000A	GR-C 2500A	220
GR-A 2500A	GR-C 3200A	220



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

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

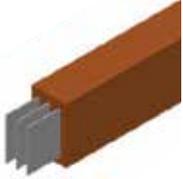




### STANDART BOY ELEMAN (BOLT-ON) *Standard Length Element (Bolt-on)*

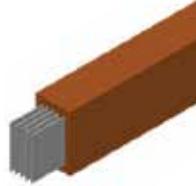
#### GR-A 3P

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg/Ad.) 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

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg/Ad.) 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

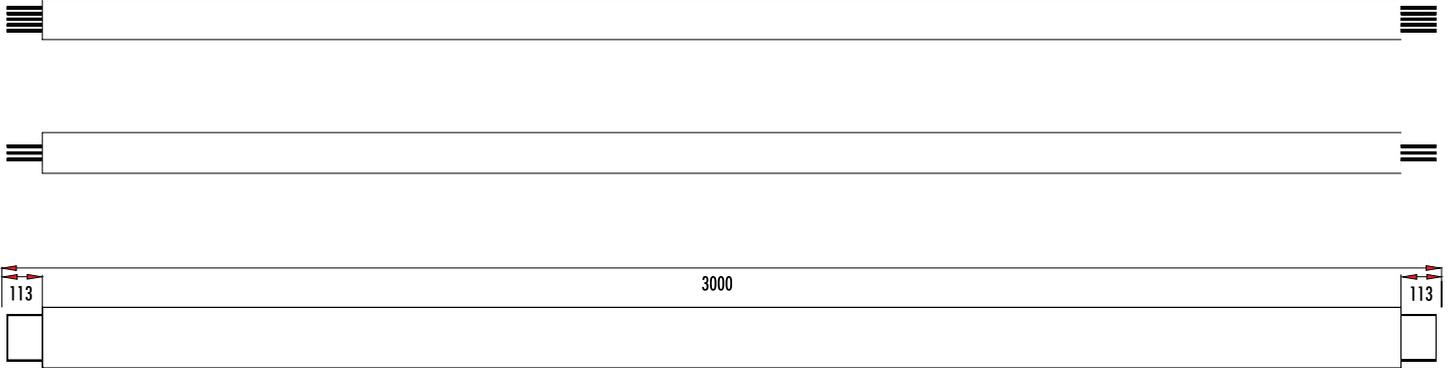


#### GR-C 3P

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

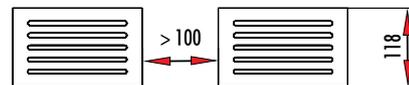
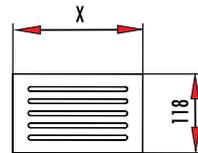
GR-C5 050105	860105005514051	500	227.790
GR-C5 050106	860106305514051	630	227.790
GR-C5 050108	860108005514051	800	227.790
GR-C5 050110	860110005514051	1000	227.790
GR-C5 050112	860112505514051	1250	227.790
GR-C5 050116	860116005514051	1600	227.790
GR-C5 050120	860120005514051	2000	245.200
GR-C5 050125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



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

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

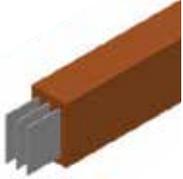
GR-A 3200A	GR-C 4000A
GR-A 4000A	GR-C 5000A
GR-A 5000A	GR-C 6000A



ARABOY BOY ELEMAN (BOLT-ON) Non Standard Length Element (Bolt-on)

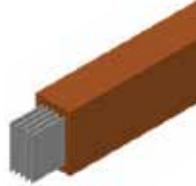
GR-A 3P

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg/Ad.) 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

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg/Ad.) 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

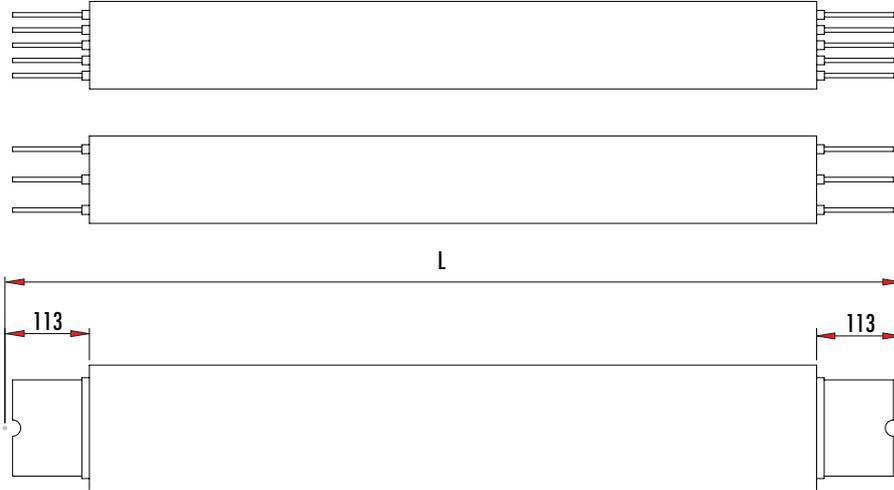


GR-C 3P

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

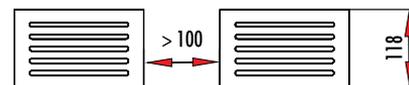
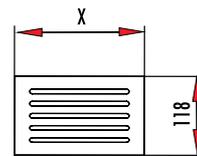
GR-C5 050105	860105005514051	500	227.790
GR-C5 050106	860106305514051	630	227.790
GR-C5 050108	860108005514051	800	227.790
GR-C5 050110	860110005514051	1000	227.790
GR-C5 050112	860112505514051	1250	227.790
GR-C5 050116	860116005514051	1600	227.790
GR-C5 050120	860120005514051	2000	245.200
GR-C5 050125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



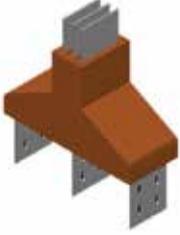
GR-C		X mm
	GR-C 500A	170
GR-A 500A	GR-C 630A	170
GR-A 630A	GR-C 800A	170
GR-A 800A	GR-C 1000A	170
GR-A 1000A	GR-C 1250A	170
GR-A 1250A	GR-C 1600A	170
GR-A 1600A	GR-C 2000A	170
GR-A 2000A	GR-C 2500A	220
GR-A 2500A	GR-C 3200A	220

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

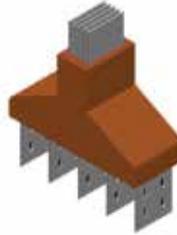
GR-A 3200A	GR-C 4000A
GR-A 4000A	GR-C 5000A
GR-A 5000A	GR-C 6000A



### PANO - TRAFO ÜSTÜ ELEMANI *Panel - Transformer Side Element*



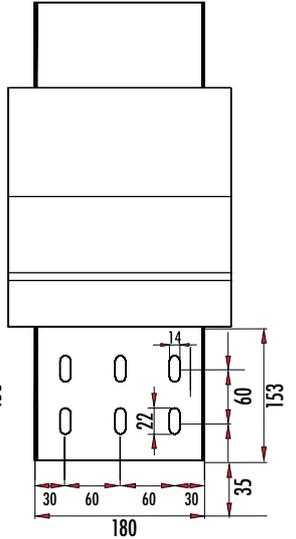
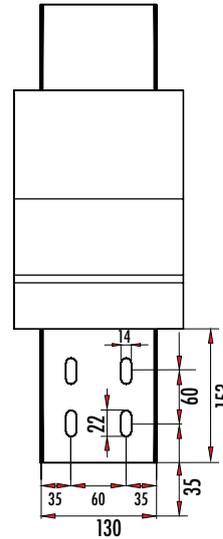
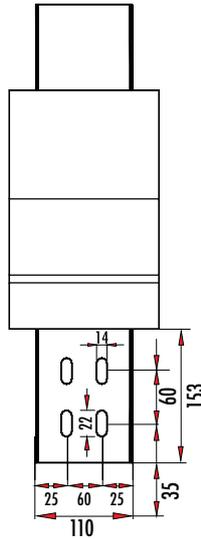
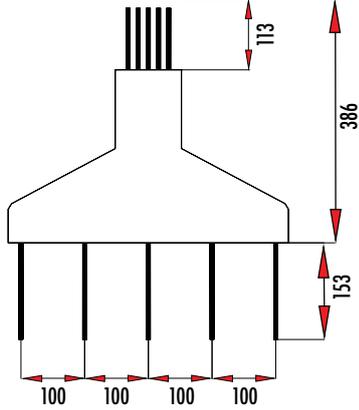
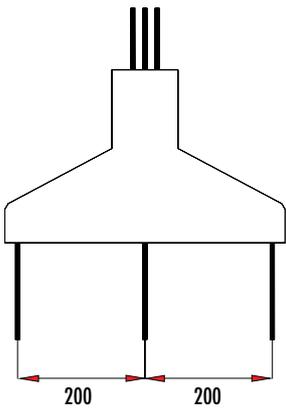
GR-A 3P			
Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg./Ad.) Weight (Kg./Unit)
GR-A3 TS 05	850705005520030	500	21.770
GR-A3 TS 06	850706305520030	630	21.770
GR-A3 TS 08	850708005520030	800	21.770
GR-A3 TS 10	850710005520030	1000	21.770
GR-A3 TS 12	850712505520030	1250	21.770
GR-A3 TS 16	850716005520030	1600	22.130
GR-A3 TS 20	850720005520030	2000	28.850
GR-A3 TS 25	850725005520030	2500	28.850



GR-A 3P+N+Pe			
Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg./Ad.) Weight (Kg./Unit)
GR-A5 TS 05	850705005520050	500	22.980
GR-A5 TS 06	850706305520050	630	22.980
GR-A5 TS 08	850708005520050	800	22.980
GR-A5 TS 10	850710005520050	1000	22.980
GR-A5 TS 12	850712505520050	1250	22.980
GR-A5 TS 16	850716005520050	1600	23.570
GR-A5 TS 20	850720005520050	2000	30.830
GR-A5 TS 25	850725005520050	2500	30.830

GR-C 3P			
Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg./Ad.) Weight (Kg./Unit)
GR-C3 TS 05	860705005510031	500	28.780
GR-C3 TS 06	860706305510031	630	28.780
GR-C3 TS 08	860708005510031	800	28.780
GR-C3 TS 10	860710005510031	1000	28.780
GR-C3 TS 12	860712505510031	1250	28.780
GR-C3 TS 16	860716005510031	1600	28.780
GR-C3 TS 20	860720005510031	2000	30.450
GR-C3 TS 25	860725005510031	2500	40.400
GR-C3 TS 32	860732005510031	3200	40.400

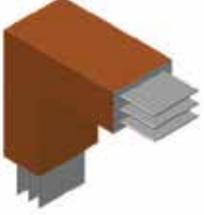
GR-C 3P+N+Pe			
Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg./Ad.) Weight (Kg./Unit)
GR-C5 TS 05	860705005510051	500	34.400
GR-C5 TS 06	860706305510051	630	34.400
GR-C5 TS 08	860708005510051	800	34.400
GR-C5 TS 10	860710005510051	1000	34.400
GR-C5 TS 12	860712505510051	1250	34.400
GR-C5 TS 16	860716005510051	1600	34.400
GR-C5 TS 20	860720005510051	2000	37.140
GR-C5 TS 25	860725005510051	2500	49.630
GR-C5 TS 32	860732005520051	3200	49.630



## 90° DİKEY DÖNÜŞ ELEMANI 90° Vertical Elbow Element

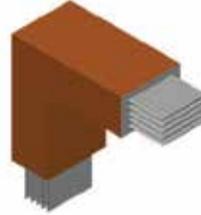
## GR-A 3P

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg/Ad.) 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

Sipariş kodu Order code	Stok kodu Stock code	Amper A	Ağırlık (Kg/Ad.) 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

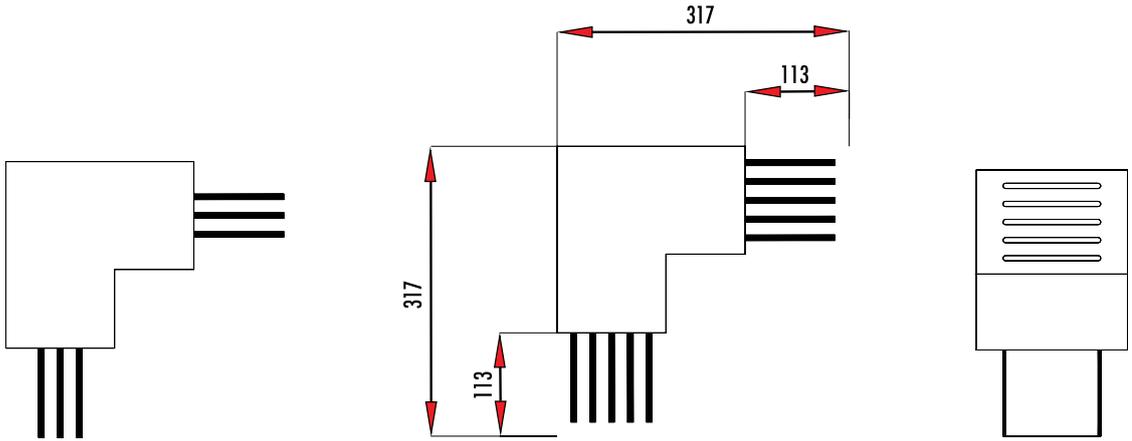


## GR-C 3P

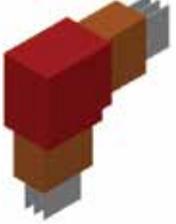
GR-C3 VE 05	863105005510031	500	17.790
GR-C3 VE 06	863106305510031	630	17.790
GR-C3 VE 08	863108005510031	800	17.790
GR-C3 VE 10	863110005510031	1000	17.790
GR-C3 VE 12	863112505510031	1250	17.790
GR-C3 VE 16	863116005510031	1600	17.790
GR-C3 VE 20	863120005510031	2000	19.130
GR-C3 VE 25	863125005510031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

## GR-C 3P+N+Pe

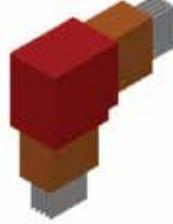
GR-C5 VE 05	863105005510051	500	22.790
GR-C5 VE 06	863106305510051	630	22.790
GR-C5 VE 08	863108005510051	800	22.790
GR-C5 VE 10	863110005510051	1000	22.790
GR-C5 VE 12	863112505510051	1250	22.790
GR-C5 VE 16	863116005510051	1600	22.790
GR-C5 VE 20	863120005510051	2000	25.010
GR-C5 VE 25	863125005510051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



### 90° YATAY DÖNÜŞ ELEMANI 90° Horizontal Elbow Element



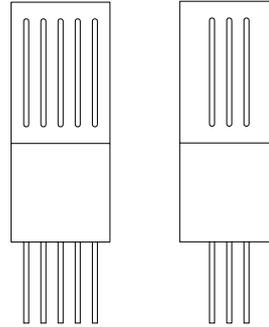
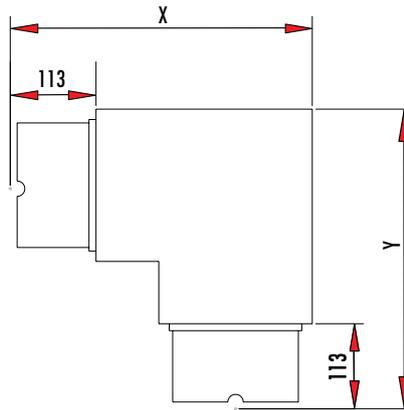
GR-A 3P						
Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Ağırlık (Kg/Ad.) Weight (Kg/Unit)	
GR-A3 HE 05	852905005520030	500	402	402	16.320	
GR-A3 HE 06	852906305520030	630	402	402	16.320	
GR-A3 HE 08	852908005520030	800	402	402	16.320	
GR-A3 HE 10	852910005520030	1000	402	402	16.320	
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	

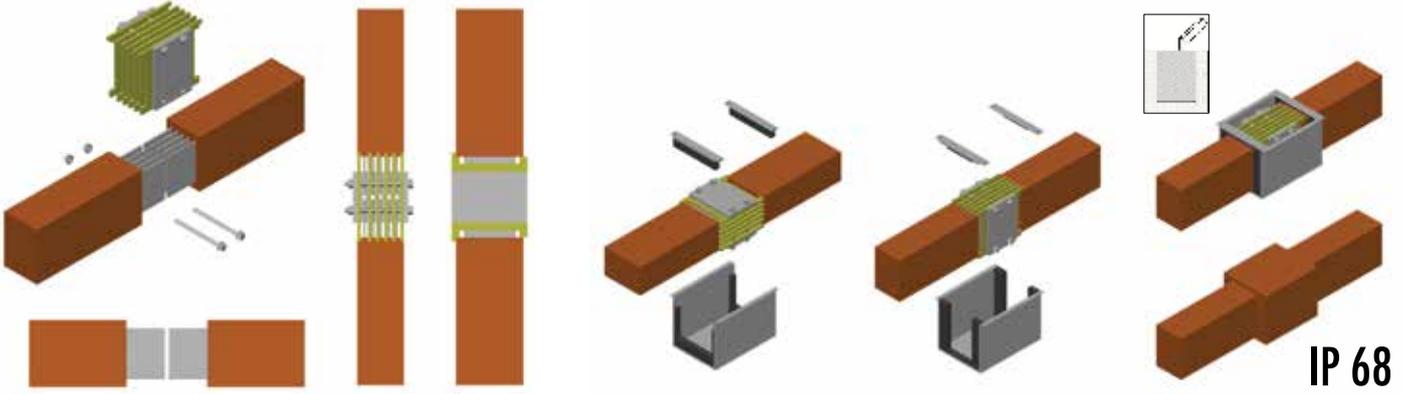


GR-A 3P+N+Pe							
Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Ağırlık (Kg/Ad.) Weight (Kg/Unit)		
GR-A5 HE 05	852905005520050	500	402	402	17.490		
GR-A5 HE 06	852906305520050	630	402	402	17.490		
GR-A5 HE 08	852908005520050	800	402	402	17.490		
GR-A5 HE 10	852910005520050	1000	402	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					
Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Ağırlık (Kg/Ad.) Weight (Kg/Unit)
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						
Sipariş kodu Order code	Stok kodu Stock code	Amper A	X mm	Y mm	Ağırlık (Kg/Ad.) Weight (Kg/Unit)	
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 - TEKNİK BİLGİLER 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
İzolasyon Gerilim <i>Insulation Voltage</i>	U <sub>i</sub>	36										kV	
Faz/Nötr/Toprak Kesiti <i>Cross Section of Phase/Neutral/Earth</i>	S <sub>f</sub>	660	660	660	660	660	780	1080	1080	1560	2160	2160	mm <sup>2</sup>
Faz Kısa Devre Akımı (1sn) <i>Short-Circuit Current of Phases (1s)</i>	I <sub>cw</sub>	50	50	50	50	50	50	50	50	100	100	100	kA
Faz Pik Akımı <i>Peak Current of Phases</i>	I <sub>pk</sub>	110	110	110	110	110	110	110	110	220	220	220	kA
Faz Direnci <i>Phase Resistance</i>	R <sub>1</sub>	0,062	0,062	0,062	0,062	0,062	0,038	0,029	0,029	0,019	0,015	0,015	mΩ/m
Faz Reaktansı <i>Phase Reactance</i>	X <sub>1</sub>	0,015	0,015	0,015	0,015	0,015	0,030	0,014	0,014	0,015	0,007	0,007	mΩ/m
Faz Empedansı <i>Phase Impedance</i>	Z <sub>1</sub>	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 - TEKNİK BİLGİLER 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
İzolasyon Gerilim <i>Insulation Voltage</i>	U <sub>i</sub>	36										kV		
Faz/Nötr/Toprak Kesiti <i>Cross Section of Phase/Neutral/Earth</i>	S <sub>f</sub>	660	660	660	660	660	660	780	1080	1080	1560	2160	2160	mm <sup>2</sup>
Faz Kısa Devre Akımı (1sn) <i>Short-Circuit Current of Phases (1s)</i>	I <sub>cw</sub>	50	50	50	50	50	50	50	50	50	100	100	100	kA
Faz Pik Akımı <i>Peak Current of Phases</i>	I <sub>pk</sub>	110	110	110	110	110	110	110	110	110	220	220	220	kA
Faz Direnci <i>Phase Resistance</i>	R <sub>1</sub>	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
Faz Reaktansı <i>Phase Reactance</i>	X <sub>1</sub>	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
Faz Empedansı <i>Phase Impedance</i>	Z <sub>1</sub>	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



**TÜRK STANDARLARI ENSTİTÜSÜ**  
TÜRK STANDARLARINA UYGUNLUK BELGESİ  
**TURKISH STANDARDS INSTITUTION**  
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

Markanın Sahibi / Proprietor of the Mark  
TSE  

<b>BELGE NUMARASI</b> REFERENCE NUMBER OF LICENSE	066227-TSE-03/04	  
<b>BELGENİN İLK VERİŞİŞ TARİHİ</b> DATE OF FIRST ISSUE OF LICENSE	12.01.2010	
<b>BELGENİN SON GEÇERLİLİK TARİHİ</b> LICENSE VALID UNTIL	30.10.2023	
<b>BELGE SAHİBİ KURULUŞUN ADI</b> NAME OF THE LICENSE HOLDER	GERSAN ELEKTRİK TİC. VE SAN. A.Ş.	
<b>BELGE SAHİBİ KURULUŞUN ADRESİ</b> ADDRESS OF THE LICENSE HOLDER	AYIÖRÜK / İSTANBUL AYIÖRÜK MAH. GAZİ BLV. NO:39 TUZLA, İSTANBUL/TÜRKİYE	
<b>ÜRETİM YERİ ADI</b> NAME OF THE MANUFACTURING PLACE	GERSAN ELEKTRİK TİCARET VE SANAYİ A.Ş.	
<b>ÜRETİM YERİ ADRESİ</b> ADDRESS OF THE MANUFACTURING PLACE	ORGANİZE SANAYİ BÖLGESİ 1 NO'LU MEYDANI 1 CAD. 6 VE 7 SOK. ÇAYCIYAN ZONGULDAK / TÜRKİYE	
<b>İPSAL EDİLEN BELGE NUMARASI (Yerisi)</b> INDICATION OF SUPPLEMENTED LICENSE (if any)	066227-TSE-03/03	
<b>TEGİLLİ İŞÇİLERİ MARKASI</b> REGISTERED TRADE MARK	GERSAN ELEKTRİK TİC. VE SAN. A.Ş. ye ait işareti	
<b>İLGİLİ TÜRK STANDARTI</b> RELATED TURKISH STANDARD	TS EN 61438-4 / 18.03.2015	
<b>BELGE KAPSAMI</b> SCOPE OF LICENSE	<p>(BUSBAR TRUNKING SYSTEMS) (BUSBARS)</p> <p>MODEL : GNL 25 A, GNL 40 A MODEL Üst: 690 V Üst: 1000 V FREQUENCY: 50 HZ İP: 43/55 (WITH SILICONE)</p> <p>MODEL : GL 40 A, GL 63 A MODEL Üst: 690 V Üst: 1000 V FREQUENCY: 50 HZ İP: 43/55 (WITH SILICONE) PHASE: 3P+N+E-PE İN: 40 A, 63 A low 3 kA (1 SC) 6 kA, CU BRAID SECTIONS: 14 mm<sup>2</sup>, E SECTIONS: 14 mm<sup>2</sup>, PE SECTIONS: 280 mm<sup>2</sup></p> <p>MODEL : GGD COMPACT 180 A, GGD COMPACT 250 A MODEL Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 50/55 (WITH SILICONE) PHASE: 3P+N+E-PE İN: 180 A, 250 A low 12 kA (1 SC) 20 kA AL BRAID SECTIONS: 144 mm<sup>2</sup>, E SECTIONS: 144 mm<sup>2</sup>, PE SECTIONS: 1080 mm<sup>2</sup></p> <p>MODEL : GGD COMPACT 315 A, GGD COMPACT 450 A MODEL Üst: 1000 V Üst: 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) 44 kA AL BRAID SECTIONS: 279 mm<sup>2</sup>, E SECTIONS: 279 mm<sup>2</sup>, PE SECTIONS: 1080 mm<sup>2</sup></p>	

 29.09.2022

On Behalf Of The Head Of Certification Center  
**BOYDAN CERAN**  
ELECTROTECHNICAL SECTOR MANAGER

The certificate also shows that the production steps of the system comply with the requirements of the mark.

The certificate also shows compliance with the technical requirements of the mark in a way that makes it difficult to replicate and cannot be copied.

TEGİLLİ İŞÇİLERİ MARKASI / REGISTERED TRADE MARK: Address: Mecidiyeköy Cad. No: 112/10000 Beşiktaş/İstanbul - Telephone: 0212 444 00 00 Fax: 0212 444 00 01

The scope of CERTIFICATION CENTER Address: Mecidiyeköy Cad. No: 112/10000 Beşiktaş/İstanbul - Telephone: 0212 444 00 00 Fax: 0212 444 00 01 E-mail: iletisim@tse.org.tr web: www.tse.org.tr

Here check the accuracy and validity of the certificate from <https://www.tse.org.tr/iletisim/iletisim.aspx?Yonlendirilme=1>





**TÜRK STANDARLARI ENSTİTÜSÜ**  
TÜRK STANDARLARINA UYGUNLUK BELGESİ  
**TURKISH STANDARDS INSTITUTION**  
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

Markanın Sahibi / Proprietor of the Mark  
TSE  

**BELGE KAPSAMI ( 066227-TSE-03/04) (ulu belge devami) : GERSAN ELEKTRİK TİC. VE SAN. A.Ş.**  
İLGİLİ TÜRK STANDARTI (RELATED TURKISH STANDARD) : TS EN 61438-4 / 18.03.2015

MODEL : GGD COMPACT 180 A, GGD COMPACT 250 A MODEL Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 50/55 (WITH SILICONE) PHASE: 3P+N+E-PE İN: 500 A, 630 A low 25 kA (1 SC) 44 kA AL BRAID SECTIONS: 600 mm<sup>2</sup>, E SECTIONS: 500 mm<sup>2</sup>, PE SECTIONS: 1200 mm<sup>2</sup>

MODEL : GGD COMPACT 300 A Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 50/55 (WITH SILICONE) PHASE: 3P+N+E-PE İN: 300 A low 30 kA (1 SC) 44 kA AL BRAID SECTIONS: 600 mm<sup>2</sup>, E SECTIONS: 600 mm<sup>2</sup>, PE SECTIONS: 1200 mm<sup>2</sup>

MODEL : GGD COMPACT 1000 A MODEL Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 50/55 (WITH SILICONE) PHASE: 3P+N+E-PE İN: 1000 A low 40 kA (1 SC) 90 kA AL BRAID SECTIONS: 700 mm<sup>2</sup>, E SECTIONS: 700 mm<sup>2</sup>, PE SECTIONS: 1200 mm<sup>2</sup>

MODEL : GS-A COMPACT 100 A, GS-A COMPACT 130 A, GS-A COMPACT 160 A Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E-PE İN: 500 A, 630 A low 30 kA (1 SC) 110 kA Üst: 8 kV AL BRAID SECTIONS: 330 mm<sup>2</sup>, E SECTIONS: 165 mm<sup>2</sup>, PE SECTIONS: 1304 mm<sup>2</sup>

MODEL : GS-A COMPACT 1800 A Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E-PE İN: 1800 A low 85 kA (1 SC) 110 kA Üst: 8 kV AL BRAID SECTIONS: 450 mm<sup>2</sup>, E SECTIONS: 225 mm<sup>2</sup>, PE SECTIONS: 1450 mm<sup>2</sup>

MODEL : GS-A COMPACT 1250 A Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E-PE İN: 1250 A low 85 kA (1 SC) 110 kA Üst: 8 kV AL BRAID SECTIONS: 660 mm<sup>2</sup>, E SECTIONS: 330 mm<sup>2</sup>, PE SECTIONS: 2264 mm<sup>2</sup>

MODEL : GS-A COMPACT 1600 A Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E-PE İN: 1600 A low 85 kA (1 SC) 110 kA Üst: 8 kV AL BRAID SECTIONS: 1040 mm<sup>2</sup>, E SECTIONS: 520 mm<sup>2</sup>, PE SECTIONS: 2344 mm<sup>2</sup>

MODEL : GS-A COMPACT 2000 A Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E-PE İN: 2000 A low 85 kA (1 SC) 110 kA Üst: 8 kV AL BRAID SECTIONS: 1080 mm<sup>2</sup>, E SECTIONS: 540 mm<sup>2</sup>, PE SECTIONS: 2344 mm<sup>2</sup>

MODEL : GS-A COMPACT 2500 A Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E-PE İN: 2500 A low 100 kA (1 SC) 200 kA Üst: 8 kV AL BRAID SECTIONS: 1320 mm<sup>2</sup>, E SECTIONS: 660 mm<sup>2</sup>, PE SECTIONS: 4588 mm<sup>2</sup>

MODEL : GS-A COMPACT 3200 A Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E-PE İN: 3200 A low 120 kA (1 SC) 204 kA Üst: 8 kV AL BRAID SECTIONS: 2080 mm<sup>2</sup>, E SECTIONS: 1040 mm<sup>2</sup>, PE SECTIONS: 6888 mm<sup>2</sup>

MODEL : GS-A COMPACT 4000 A Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E-PE İN: 4000 A low 150 kA (1 SC) 330 kA Üst: 8 kV AL BRAID SECTIONS: 2160 mm<sup>2</sup>, E SECTIONS: 1080 mm<sup>2</sup>, PE SECTIONS: 5208 mm<sup>2</sup>

MODEL : GS-A COMPACT 5000 A Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E-PE İN: 5000 A low 150 kA (1 SC) 330 kA Üst: 8 kV AL BRAID SECTIONS: 3340 mm<sup>2</sup>, E SECTIONS: 1670 mm<sup>2</sup>, PE SECTIONS: 7812 mm<sup>2</sup>

MODEL : GS-C COMPACT 500 A, GS-C COMPACT 630 A, GS-C COMPACT 800 A, GS-C COMPACT 1000 A Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 55 / X8 (WITH RESIN) PHASE: 3P+N+E-PE İN: 500 A, 630 A, 800 A, 1000 A low 30 kA (1 SC) 110 kA Üst: 8 kV CU BRAID SECTIONS: 330 mm<sup>2</sup>, E SECTIONS: 165 mm<sup>2</sup>, PE SECTIONS: 1304 mm<sup>2</sup>

 29.09.2022

On Behalf Of The Head Of Certification Center  
**BOYDAN CERAN**  
ELECTROTECHNICAL SECTOR MANAGER

The certificate also shows that the production steps of the system comply with the requirements of the mark.

The certificate also shows compliance with the technical requirements of the mark in a way that makes it difficult to replicate and cannot be copied.

TEGİLLİ İŞÇİLERİ MARKASI / REGISTERED TRADE MARK: Address: Mecidiyeköy Cad. No: 112/10000 Beşiktaş/İstanbul - Telephone: 0212 444 00 00 Fax: 0212 444 00 01

The scope of CERTIFICATION CENTER Address: Mecidiyeköy Cad. No: 112/10000 Beşiktaş/İstanbul - Telephone: 0212 444 00 00 Fax: 0212 444 00 01 E-mail: iletisim@tse.org.tr web: www.tse.org.tr

Here check the accuracy and validity of the certificate from <https://www.tse.org.tr/iletisim/iletisim.aspx?Yonlendirilme=1>





**TÜRK STANDARLARI ENSTİTÜSÜ**  
TÜRK STANDARLARINA UYGUNLUK BELGESİ  
**TURKISH STANDARDS INSTITUTION**  
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**BELGE KAPSAMI ( 066227-TSE-03/04) (ulu belge devami) : GERSAN ELEKTRİK TİC. VE SAN. A.Ş.**  
İLGİLİ TÜRK STANDARTI (RELATED TURKISH STANDARD) : TS EN 61438-4 / 18.03.2015

SECTIONS: 1884 mm<sup>2</sup>

MODEL : GS-C COMPACT 1250 A Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 35 / X8 (WITH RESIN) PHASE: 3P+N+E-PE İN: 1250 A low 30 kA (1 SC) 110 kA Üst: 8 kV CU BRAID SECTIONS: 450 mm<sup>2</sup>, E SECTIONS: 225 mm<sup>2</sup>, PE SECTIONS: 1304 mm<sup>2</sup>

MODEL : GS-C COMPACT 1800 A Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 35 / X8 (WITH RESIN) PHASE: 3P+N+E-PE İN: 1800 A low 85 kA (1 SC) 110 kA Üst: 8 kV CU BRAID SECTIONS: 660 mm<sup>2</sup>, E SECTIONS: 330 mm<sup>2</sup>, PE SECTIONS: 2295 mm<sup>2</sup>

MODEL : GS-C COMPACT 2000 A Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 35 / X8 (WITH RESIN) PHASE: 3P+N+E-PE İN: 2000 A low 80 kA (1 SC) 175 kA Üst: 8 kV CU BRAID SECTIONS: 1040 mm<sup>2</sup>, E SECTIONS: 520 mm<sup>2</sup>, PE SECTIONS: 2344 mm<sup>2</sup>

MODEL : GS-C COMPACT 2500 A Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 35 / X8 (WITH RESIN) PHASE: 3P+N+E-PE İN: 2500 A low 80 kA (1 SC) 175 kA Üst: 8 kV CU BRAID SECTIONS: 1080 mm<sup>2</sup>, E SECTIONS: 540 mm<sup>2</sup>, PE SECTIONS: 2344 mm<sup>2</sup>

MODEL : GS-C COMPACT 3000 A Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 35 / X8 (WITH RESIN) PHASE: 3P+N+E-PE İN: 3000 A low 120 (1 SC) 4084 kA Üst: 8 kV CU BRAID SECTIONS: 1320 mm<sup>2</sup>, E SECTIONS: 660 mm<sup>2</sup>, PE SECTIONS: 4590 mm<sup>2</sup>

MODEL : GS-C COMPACT 4000 A Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 35 / X8 (WITH RESIN) PHASE: 3P+N+E-PE İN: 4000 A low 150 kA (1 SC) 330 kA Üst: 8 kV CU BRAID SECTIONS: 2160 mm<sup>2</sup>, E SECTIONS: 1080 mm<sup>2</sup>, PE SECTIONS: 5208 mm<sup>2</sup>

MODEL : GS-C COMPACT 5000 A Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 35 / X8 (WITH RESIN) PHASE: 3P+N+E-PE İN: 5000 A low 150 kA (1 SC) 330 kA Üst: 8 kV CU BRAID SECTIONS: 3120 mm<sup>2</sup>, E SECTIONS: 1560 mm<sup>2</sup>, PE SECTIONS: 7032 mm<sup>2</sup>

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/SHRINK CIRCUIT BREAKER Üst: 1000 V Üst: 1000 V FREQUENCY: 50 HZ İP: 35 PHASE: 3P+N+E-PE İN: 160 A, 250 A, 400 A, 630 A low 150 kA/30 kA (1 SC) Üst: 8 kV

NOTE: REFERRING TO TS EN 61438-4 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  
**BOYDAN CERAN**  
ELECTROTECHNICAL SECTOR MANAGER

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The scope of CERTIFICATION CENTER Address: Mecidiyeköy Cad. No: 112/10000 Beşiktaş/İstanbul - Telephone: 0212 444 00 00 Fax: 0212 444 00 01 E-mail: iletisim@tse.org.tr web: www.tse.org.tr

Here check the accuracy and validity of the certificate from <https://www.tse.org.tr/iletisim/iletisim.aspx?Yonlendirilme=1>





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

**Certificate of conformity n° A 15.035**  
page 1 of 2

**Apparatus:** Low-voltage tap-off unit 1000V (U<sub>i</sub>) - 250/400/530A (I<sub>u</sub>) - 30-60Hz (f) - 1000V (U<sub>u</sub>) - 4kV (U<sub>u</sub>) - 7kA, Ia (I<sub>u</sub>) - 35kA (I<sub>u</sub>) at 420V - IP55 - 3P+N+1/2E and Aluminium Housing

**Designation:** GGD-GS 0-639 A PLUG-IN TOB

**Manufacturer or responsible vendor:** GERSAN ELEKTRİK TIC. ve SAN. A. Ş.  
Anadolü Yakası Organize Sanayi Bölgesi Gazı Bulvarı No. 39-41 - P.K. 57  
34953 TUZLA - İSTANBUL (Turkey)

**Applicant:** GERSAN ELEKTRİK

**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.

*Virgin Scavini*  
The General Secretary  
Date: 2015.03.20

ACAE is member of:



MSD 0107 Page 1 of 2



ASSOCIAZIONE PER LA CERTIFICAZIONE DELLE APPARECCHIATURE ELETTRICHE  
Via Tito Livio, 5 - 24123 BERGAMO (Italy)  
Tel. +39 035 4375244 e-mail: acae@acaecert.it

**Certificate of conformity n° A 14.050**  
page 1 of 2

**Apparatus:** Low-voltage busbar trunking system 690V (U<sub>i</sub>) - 63A (I<sub>u</sub>) - 50Hz (f) - 1000 V (U<sub>u</sub>) - 3,5kV (U<sub>u</sub>) - 7kA, Ia (I<sub>u</sub>) - 4,5kA (I<sub>u</sub>) - IP43  
3 Copper Bars (3P+N+PE) and Aluminium Housing (E)

**Designation:** GL

**Manufacturer or responsible vendor:** GERSAN ELEKTRİK TIC. ve SAN. A. Ş.  
Anadolü Yakası Organize Sanayi Bölgesi Gazı Bulvarı No. 39-41 - P.K. 57 -  
34953 TUZLA - İSTANBUL (Turkey)  
**Applicant:** GERSAN ELEKTRİK - İSTANBUL (Turkey)  
**Tested by:** IFH - HEKLEN (Germany)  
MFA - 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 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. 17821  
Issue Date: 0<sup>th</sup> July 2010  
Extract from LOVAG Test Report No. 5981/VNL (pages 1, 12)  
Issue date: 11.11.2010



*Virgin Scavini*  
The General Secretary  
Date: 2014.09.15

MSD 0107 Page 1 of 2



ASSOCIAZIONE PER LA CERTIFICAZIONE DELLE APPARECCHIATURE ELETTRICHE  
Via Tito Livio, 5 - 24123 - BERGAMO (Italy)  
Tel. +390354175244 fax. +390354314062 e-mail: acae@acaecert.it



**Certificate of Conformity**

LOVAG-Certificate No. IT 14.084  
Page 1 of 2

**Apparatus:** Low-voltage busbar trunking system 690V (U<sub>i</sub>) - 40A (I<sub>u</sub>) - 50Hz (f) - 1000V (U<sub>u</sub>) - 3,5kV (U<sub>u</sub>) - 3,5kA, Ia (I<sub>u</sub>) - 5,25kA (I<sub>u</sub>) - IP55  
3 Copper Wires (3P+N+PE) and Aluminium Housing (E)

**Designation:** GNL 25-40A

**Manufacturer or responsible vendor:** GERSAN ELEKTRİK TIC. ve SAN. A. Ş.  
Anadolü Yakası Organize Sanayi Bölgesi Gazı Bulvarı No. 39-41 - P.K. 57  
34953 TUZLA - İSTANBUL (Turkey)

**Applicant:** GERSAN ELEKTRİK - İSTANBUL (Turkey)

**Tested by:** VEIKI-VNL - BUDAPEST (Hungary)

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  
Virgin Scavini

*Virgin Scavini*  
Authorized signature  
Date: 2014.09.15



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**ТАМОЖЕННЫЙ СОЮЗ**

**СЕРТИФИКАТ СООТВЕТСТВИЯ**

№ ТС RU C-RU.AB24.B.02231  
Серия RU № **0216779**

**ОРГАН ПО СЕРТИФИКАЦИИ** Орган по сертификации продукции Общества с ограниченной ответственностью "Сертификация продукции "СТАНДАРТ-ТЕСТ". Адрес: 121471, Москва, Можайский шоссе, д. 29, Физический адрес: 238460, Калининградская область, Баргатовский район, поселок Рязанское, ул. Панфиловская, дом 12, Российская Федерация. Телефон: +7(495)7415912, Факс: +7(495)7415912, E-mail: info@standart-test.ru, info@certification.ru. № РОСС RU.0001.11AB24 issued 10.09.2014 ФЕДЕРАЛЬНОЙ СЛУЖБЫ ПО АККРЕДИТАЦИИ "РОСАККРЕДИТАЦИЯ".

**ЗАЯВИТЕЛЬ** Заряте инновационное общество "ТЕРСАН-П". ОГРН: 1097847210251. Место нахождения: 238460, Калининградская область, Баргатовский район, поселок Рязанское, ул. Панфиловская, дом 12, Российская Федерация. Физический адрес: 238460, Калининградская область, Баргатовский район, поселок Рязанское, ул. Панфиловская, дом 12, Российская Федерация. Телефон: +7(495)21019-301, факс: +7(4012)10-301, адрес электронной почты: dz@ter-san.ru.

**ИЗГОТОВИТЕЛЬ** Заряте инновационное общество "ТЕРСАН-П". ОГРН: 1097847210251. Место нахождения: 238460, Калининградская область, Баргатовский район, поселок Рязанское, ул. Панфиловская, дом 12, Российская Федерация. Физический адрес: 238460, Калининградская область, Баргатовский район, поселок Рязанское, ул. Панфиловская, дом 12, Российская Федерация.

**ПРОДУКЦИЯ** Устройства комплектные (автоматизированные) напряжением до 1000 В третьей гармонической составляющей «GNL», «GL», «GGD», «GS-SUPER Compact», «GR» без соединительной и вместе с соединительной сериями «GDK», «GALFK», «GYDK», «GOR» (полностью соответствующие на 3-4 уровня, базиса №№ 0216771, 0216772, 0216773). Продукция изготовлена в соответствии с ГОСТ Р 51321.2-2009 (МЭК 60439-2-2005) «Устройства комплектные низковольтные распределения и управления. Часть 2. Дополнительные требования к автоматизированным. 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 №№ 47С-142015, 47С-142016, 47С-142017, ТПС-142015 от 03.11.2015 №000 "СЕРТИФИКАТ" аттестата аккредитации № РОСС RU.0001.21AB78 от 07.02.2015 от 28.10.2016. Аттестат республиканского уровня системы сертификации № 291 от 29.10.2015 Органа по сертификации ООО "Сертификация продукции "СТАНДАРТ-ТЕСТ", регистрационный № РОСС RU.0001.11AB24 от 20.10.2014, 121471, город Москва, Можайский шоссе, дом 29.

**ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ** Указаны данные описания и идентификации в ГОСТ 51321.2. Срок годности сертификата: 12 месяцев в период действия протоколов испытаний и сертификата аккредитации. Указаны данные об объекте на дату и в соответствии с Планом работ по объекту сертификации в рамках сертификата - члены Таможенного союза, государствами Республики Беларусь, Таможенного союза и 15 стран.

20.11.2015 ПРО 19.11.2020 ВКЛЮЧИТЕЛЬНО

Исполнитель (уполномоченное лицо) органа по сертификации: Л.В. Козыряук  
Эксперты (эксперты-аудиторы): М.П. Бакутина

**ТАМОЖЕННЫЙ СОЮЗ**

**ПРИЛОЖЕНИЕ**

К СЕРТИФИКАТУ СООТВЕТСТВИЯ № ТС RU C-RU.AB24.B.02231  
Серия RU № **0216771**

Перечень продукции, на которую распространяется действие сертификата соответствия

Код ТН ВЭД ТС	Наименование, тип, марка, модель однотипной продукции, составные части изделия или комплексы	Обозначение документации, на которой выдана продукция
8536 90 010 0	<p>Устройства комплектные (автоматизированные) напряжением до 1000 В третьей гармонической составляющей «GNL», «GL», «GGD», «GS-SUPER Compact», «GR» без соединительной и вместе с соединительной сериями «GDK», «GALFK», «GYDK», «GOR»:</p> <ul style="list-style-type: none"> <li>- Система сборных шин (автоматизированная) GL, на токи от 25А до 160А со степенью защиты IP55;</li> <li>- Прямые элементы типа GL, длиной до 3000 мм алюминия (медь) на токи 25А-160А;</li> <li>- Устройство ввода и распределения энергии типа GL: терминальный блок питания, центральный блок питания, гибкий элемент для поворота, выключатель, выключатель с предохранителем, выключатель выключатель на токи от 16А до 160 А;</li> <li>- Изделия крепежные для систем сборных шин (автоматизированная) типа GL;</li> <li>- Система сборных шин (автоматизированная) серия GGDA и механическое расширение на токи от 160А до 1000А, со степенью защиты IP55 и IP65;</li> <li>- Прямые элементы типа GGDA длиной до 4000 мм, элементы с продвинутой 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;</li> <li>- Однобитное соединение с крышками типа GGDA из алюминия (медь) на токи от 160А до 1000А;</li> <li>- Устройство ввода и распределения энергии типа GGDA: блок панели, блок питания панели, терминальный блок питания, терминальный блок питания, промежуточный блок питания, терминальная коробка версия NH, MCB, MCCB для предохранителей (автоматов) на токи до 1000А;</li> <li>- Система сборных шин (автоматизированная) серия GGDC и механическое расширение на токи от 160А до 1000А, со степенью защиты IP55 и IP65;</li> </ul>	ГОСТ Р 51321.2-2009 (МЭК 60439-2-2005)

Исполнитель (уполномоченное лицо) органа по сертификации: Л.В. Козыряук  
Эксперты (эксперты-аудиторы): М.П. Бакутина

**ТАМОЖЕННЫЙ СОЮЗ**

**ПРИЛОЖЕНИЕ**

К СЕРТИФИКАТУ СООТВЕТСТВИЯ № ТС RU C-RU.AB24.B.02231  
Серия RU № **0216772**

Перечень продукции, на которую распространяется действие сертификата соответствия

Код ТН ВЭД ТС	Наименование, тип, марка, модель однотипной продукции, составные части изделия или комплексы	Обозначение документации, на которой выдана продукция
8536 90 010 0	<p>Устройства комплектные (автоматизированные) напряжением до 1000 В третьей гармонической составляющей «GNL», «GL», «GGD», «GS-SUPER Compact», «GR» без соединительной и вместе с соединительной сериями «GDK», «GALFK», «GYDK», «GOR»:</p> <ul style="list-style-type: none"> <li>- Прямые элементы типа GGDC длиной до 4000 мм с продвинутой 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;</li> <li>- Однобитное соединение с крышками типа GGDC из алюминия (медь) на токи от 160А до 1000А;</li> <li>- Устройство ввода и распределения энергии типа GGDC: блок питания панели, терминальный блок питания, промежуточный блок питания, терминальная коробка версия NH, MCB, MCCB для предохранителей (автоматов), на токи до 1000А;</li> <li>- Изделия крепежные для систем сборных шин (автоматизированная) типа GGD;</li> <li>- Система сборных шин (автоматизированная) серия GS на токи от 500А до 6300А, со степенью защиты IP55 и IP65;</li> <li>- Прямые элементы типа GS-AP длиной до 4000 мм до 5-ти проводников из алюминия (медь) на токи от 500А до 6300А;</li> <li>- Прямые элементы типа GS-AP длиной до 4000 мм до 5-ти проводников из алюминия (медь) на токи от 500А до 6300А;</li> <li>- Элементы расширения;</li> <li>- Горизонтальные и вертикальные угловые элементы, Т-образные, Z-образные элементы, элементы расширения, поперечные элементы, элементы расширения, элементы подключения фид-була трансформатора типа GS до 5-ти проводников;</li> <li>- Элементы с отключающими барьерами;</li> <li>- Однобитное соединение типа GS из алюминия (медь) на токи от 500А до 6300А;</li> <li>- Гибкие медные шины типа GS на токи до 6300А;</li> </ul>	ГОСТ Р 51321.2-2009 (МЭК 60439-2-2005)

Исполнитель (уполномоченное лицо) органа по сертификации: Л.В. Козыряук  
Эксперты (эксперты-аудиторы): М.П. Бакутина

**ТАМОЖЕННЫЙ СОЮЗ**

**ПРИЛОЖЕНИЕ**

К СЕРТИФИКАТУ СООТВЕТСТВИЯ № ТС RU C-RU.AB24.B.02231  
Серия RU № **0216773**

Перечень продукции, на которую распространяется действие сертификата соответствия

Код ТН ВЭД ТС	Наименование, тип, марка, модель однотипной продукции, составные части изделия или комплексы	Обозначение документации, на которой выдана продукция
8536 90 010 0	<p>Устройства комплектные (автоматизированные) напряжением до 1000 В третьей гармонической составляющей «GNL», «GL», «GGD», «GS-SUPER Compact», «GR» без соединительной и вместе с соединительной сериями «GDK», «GALFK», «GYDK», «GOR»:</p> <ul style="list-style-type: none"> <li>- Устройства ввода энергии типа GS: элементы трансформаторов, элементы трансформаторов с горизонтальными или вертикальным углом, элементы панели, элементы панели с горизонтальными или вертикальным углом, терминальный блок питания, промежуточный блок питания на токи до 6300А;</li> <li>- Устройства распределения энергии типа P и B (выключающие выключатели) на токи до 6300А;</li> <li>- Изделия крепежные для систем сборных шин (автоматизированная) типа GS;</li> <li>- Система сборных шин (автоматизированная) серия GR, на токи от 500А до 6300А;</li> <li>- Прямые элементы типа GR, длиной до 4000 мм из алюминия (медь) на токи от 500А до 6300А;</li> <li>- Горизонтальные и вертикальные угловые элементы, Т-образные, Z-образные элементы, элементы расширения, поперечные элементы, элементы подключения трансформатора типа GR до 5-ти проводников;</li> <li>- Компоненты однобитного соединения типа GR из алюминия (медь) на токи от 500А до 6300А;</li> <li>- Гибкие медные шины типа GR на токи до 6300А;</li> <li>- Устройство ввода энергии типа GR: элементы трансформаторов, элементы панели, элементы панели с горизонтальными или вертикальным углом, терминальный блок питания, промежуточный блок питания на токи до 6300А;</li> <li>- Устройство распределения энергии типа P и B (выключающие выключатели) на токи до 6300А;</li> <li>- Изделия крепежные для систем сборных шин (автоматизированная) типа GR;</li> </ul>	ГОСТ Р 51321.2-2009 (МЭК 60439-2-2005)

Исполнитель (уполномоченное лицо) органа по сертификации: Л.В. Козыряук  
Эксперты (эксперты-аудиторы): М.П. Бакутина

**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 sertifikalar/da belirtilen lokasyonlar dahil

Çıkarılış kurulumun, belirtilen standarda göre, eşajedekli geçerlilik alanında bir yönetim sistemi uyguladığı belgelenmiştir.  
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 Armatür Sistemleri Proje, Tasarım, Üretim Ve Satışı ve Busbar Kanalı Proje ve Tasarımı**

Sertifika Teslim No 44 100 19530004  
Tebliğ Tarihi/No: TR 1893

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 tebliğ ve belgelendirme prosedürlerine göre gerçekleştirilmiştir ve düzenli ara kontrollerle yapılan gözetim faaliyetlerine tabidir.

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

**IAF** **DAkkS**  
Deutsche  
Akreditierungsstelle  
D-28199 Bremen

21670

**TUV NORD**

# CERTIFICATE

Management system as per  
ISO 9001 : 2015

In accordance with TÜV NORD CERT procedure, 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 1893

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

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 Langemarkstraße 20 45141 Essen www.tuv-nord-cert.com

**IAF** **DAkkS**  
Deutsche  
Akreditierungsstelle  
D-28199 Bremen

21677

**TUV NORD**

# EK

Sertifika Teslim 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 Teslim No	Adres	Kapsam
44 100 19530004-001	Çayırcama O.S.B., 1 Nolu OSB Meydanı, 1 Cadde, 6 ve 7. Sokak, Çayırcama, Zonguldak, Türkiye	Kablo Kanalı, Merdiveni Ve Aksesuarları, Döşeme Altı Kablo Kanalı, Buatı Ve Aksesuarları, Topraklama Malzemeleri Ve Paratoner Bağlantı Elemanları, Plafondun Sistemleri, Aski Ve Gergi Sistemleri, Busbar Kanalı İnatları, Sokak Döşeme Malzemeleri İşlemi, Elestatik 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 Langemarkstraße 20 45141 Essen www.tuv-nord-cert.com

1 Sayfa 1

**IAF** **DAkkS**  
Deutsche  
Akreditierungsstelle  
D-28199 Bremen

21800

**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	Çayırcama O.S.B., 1 Nolu OSB Meydanı, 1 Cadde, 6 ve 7. Sokak, Çayırcama, 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, H&I 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

TÜV NORD CERT GmbH

İstanbul, 2019-02-07

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

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**IAF** **DAkkS**  
Deutsche  
Akreditierungsstelle  
D-28199 Bremen

21800

**TUV NORD**

## SERTİFİKA

ISO 14001 : 2015'e göre  
yönetim sistemi

TÜV NORD CERT prosedürleri uyarınca, İbpo sertifikasıdır.

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

**Ekteki veya Altı sertifikalar(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, 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 Armatür Sistemleri Proje, Tasarım, Üretim Ve Satışı ve Busbar Kanalı Proje ve Tasarımı**

Sertifika Tescil No 44 104 19530004  
Tescil Raporu No TR 1863

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

TÜV NORD CERT GmbH -  
Sertifika Merkezi

İstanbul, 2019-02-07

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

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

**IAF** **DAKKS**  
Deutsche  
Akreditierungsstelle  
D-204 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 2019

Certification Body  
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 Langemarkstraße 20 45141 Essen www.tuv-nord-cert.com

**IAF** **DAKKS**  
Deutsche  
Akreditierungsstelle  
D-204 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	Çayyusu O.S.B., 1 Nolu OSB Meydanı, 1 Cadde, 6. ve 7. Sokak, Çayyusu, Zonguldak, Türkiye	Kablo Kanalı, Merdivenli Ve Aksesuarları, Döşeme Altı Kablo Kanalı, Buatı Ve Aksesuarları, Topraklama Malzemeleri Ve Paratoner Bağlantı Elemanları, Plafitörler, Aski Ve Gergi Takımları, Busbar Kanalı, Sokak, Sokak Daldırma Galvanizleme İşletim, 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

Ekli liste sonu

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

TÜV NORD CERT GmbH -  
Sertifika Merkezi

İstanbul, 2019-02-07

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

**IAF** **DAKKS**  
Deutsche  
Akreditierungsstelle  
D-204 12007-01-01

1 Sayfa 1  
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	Çayyusu O.S.B., 1 Nolu OSB Meydanı, 1 Cadde, 6. ve 7. Sokak, Çayyusu, 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 2019

Certification Body  
TÜV NORD CERT GmbH

İstanbul, 2019-02-07

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

**IAF** **DAKKS**  
Deutsche  
Akreditierungsstelle  
D-204 12007-01-01

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21807

**TUV NORD**

## SERTİFİKA

**ISO 45001 : 2018**'e göre yönetim sistemi

TUV NORD CERT prosedürleri uyarınca, şübe sertifikası ile

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

Ek'ye veya Alt sertifikalar/da belirtilen lokasyonlar dahil

Ölçülebilir kuruluşun, belirlenen standartta göre, aşağıdaki geçerlilik alanında bir yönetim sistemi uyguladığı belgelenmiştir.  
Geçerlilik alanı

**Topraklama Malzemeleri Ve Paratoner Bağlantı Elemanları, Döşeme Altı Busutı, Aağı Ve Gergi Akımın 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 Teskil No 44 126 19530004  
Teskil Raporu No TR 1883

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

TUV NORD CERT GmbH -  
Sertifika Merkezi

İstanbul, 2021-03-19

Şübe sertifikasyon TUV NORD CERT'in teskil ve belgelenme prosedürlerine göre gerçekleştirilmiş ve düzenli aralıklarla yapılan gözden geçirmeye tabidir.

TUV NORD CERT GmbH Langemannstraße 20 43141 Essen www.tuv-nord-cert.com

**IAF** **DAKKS**  
Deutsche Akkreditierungsstelle  
D-50667 Köln

2023

**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 Luminaries and LED-BUS Interior Led Luminaries Slim Led Panel Led Luminaries and UVC LED Luminaries Systems and Design and Development of Busbar Duct**

Certificate Registration No. 44 126 19530004  
Audit Report No. TR 1883

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.

TUV NORD CERT GmbH Langemannstraße 20 43141 Essen www.tuv-nord-cert.com

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Deutsche Akkreditierungsstelle  
D-50667 Köln

2023

**TUV NORD**

## EK

Sertifika Teskil 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 Teskil No	Adres	Kapsam
44 126 19530004-001	Çayyama O.S.B., 1 Nolu OSB Meydanı, 1 Cadde, 6. ve 7. Sokak, Çayyama, Zonguldak, Türkiye	Kablo Kanalı, Montaj ve Aksesuarlar, Döşeme Altı Kablo Kanalı, Busutı Ve Aksesuarları, Topraklama Malzemeleri Ve Paratoner Bağlantı Elemanları, Paratoner İstasyonları, Aağı Ve Gergi Sistemleri, Busbar Kanalı İnşaatı, Soğuk Dökümlü Galvanizlenmiş İşlemli, Elektrikli 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

Liste sonu

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

İstanbul, 2021-03-19

TUV NORD CERT GmbH -  
Sertifika Merkezi

TUV NORD CERT GmbH Langemannstraße 20 43141 Essen www.tuv-nord-cert.com

**IAF** **DAKKS**  
Deutsche Akkreditierungsstelle  
D-50667 Köln

1 Sayfa 1

2023

**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	Çayyama O.S.B., 1 Nolu OSB Meydanı, 1 Cadde, 6. ve 7. Sokak, Çayyama, 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 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 and Slim Led Panel Led Luminaries and UVC LED Luminaries Systems

End of the List

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

İstanbul, 2021-03-19

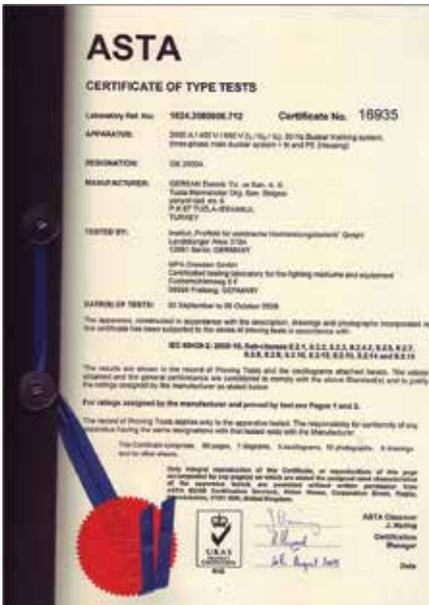
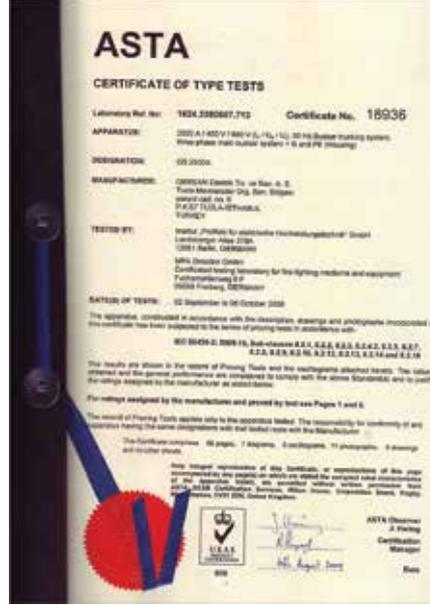
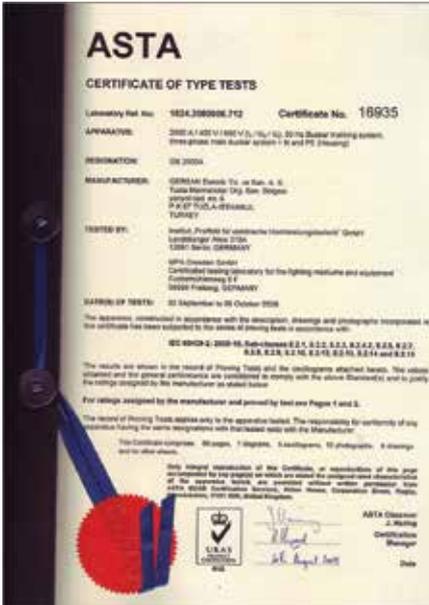
Certification Body  
at TÜV NORD CERT GmbH

TUV NORD CERT GmbH Langemannstraße 20 43141 Essen www.tuv-nord-cert.com

**IAF** **DAKKS**  
Deutsche Akkreditierungsstelle  
D-50667 Köln

Page 1 of 1

2023







**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 Bulvarı  
No:39-41 34953  
Tuzla-Istanbul  
TURKEY

Manufacturer : GERSAN ELEKTRIK Tic. ve San. A.S.  
Anadolu Yakasi Organize Sanayi Bölgesi Gazi Bulvarı  
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  
8.2.13 Verification of the electrical characteristics - PASSED

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

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**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 Bulvarı  
No:39-41 34953  
Tuzla-Istanbul  
TURKEY

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

Test object : Busbar Trunking System  
Type designation : GS-A COMPACT 1000A  
Date(s) of test(s) : 29.04.2013  
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 - 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  
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Low Voltage Agreement Group

Page 1 / 13

**Test Report No. 7273/VNL**

Test Laboratory : VEIKI-VNL Electric Large Laboratories Ltd.  
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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 Bulvarı  
No:39-41 34953  
Tuzla-Istanbul  
TURKEY

Manufacturer : GERSAN ELEKTRIK Tic. ve San. A.S.  
Anadolu Yakasi Organize Sanayi Bölgesi Gazi Bulvarı  
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  
8.2.13 Verification of the electrical characteristics - PASSED

The Record of Proving Test consists of :  
13 pages LOVAG test report forms - oscillograms  
2 other pages - 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.  
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Ed. 3.1. form1

**LOVAG**  
Low Voltage Agreement Group

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**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 Bulvarı  
No:39-41 34953  
Tuzla-Istanbul  
TURKEY

Manufacturer : GERSAN ELEKTRIK Tic. ve San. A.S.  
Anadolu Yakasi Organize Sanayi Bölgesi Gazi Bulvarı  
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 - 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  
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TRF IEC/EN60439-2  
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**LOVAG**  
Low Voltage Agreement Group

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**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 Bulvarı  
No:39-41 34953  
Tuzla-Istanbul  
TURKEY

Manufacturer : GERSAN ELEKTRIK Tic. ve San. A.S.  
Anadolu Yakasi Organize Sanayi Bölgesi Gazi Bulvarı  
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 - 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.  
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without the written approval of the test laboratory.

TRF IEC/EN60439-2  
Ed. 3.1. form1



## Şirket Profili

Elektrik sektörünün öncü kuruluşlarından olan GERSAN A.Ş. enerji santrallerinden evdeki prize kadar uzanan hat üzerindeki iletkenleri taşıyan, birleştiren, koruyan sistemleri ve malzemeleri üretmektedir.

Bu sektördeki üretimlerine 1980 yılında Gersan Ticaret olarak başlamıştır. 1985 yılından itibaren GERSAN A.Ş. olarak devam ederek 44 yıllık bir deneye sahip olmuştur.

Ana faaliyet alanlarımız;  
Binalar,  
Sanayi Tesisleri,  
Fabrikalar,  
Havaalanları,  
Petrol-Gaz Rafinerileri,  
Alışveriş Merkezleri,  
Oteller...

gibi üretim-tüketim sistemlerinin ihtiyacı olan

Busbar İletim ve Dağıtım Sistemleri,  
Kablo Taşıyıcı Sistemleri,  
Taşıma-Askı Elemanları,  
Topraklama ve Yıldırımından Korunma Sistemleri,  
Led Aydınlatma Sistemleri  
Ana-Ara Dağıtım Panoları ve Rack Kabinleri,  
Elektrikli Araç Şarj Sistemleri,  
Otomasyon Sistemleri,  
Döşeme Altı Kanal taşıyıcıları ve Buatları,  
Çeşitli Kablo Birleştirme ve Ayırma Elemanları,  
Kablo ve Boru Etiketleme Sistemleri,  
Özel taşıyıcı, Çelik Konstrüksiyon Birleştirme ve Sabitleştirme Sistemleri,  
Platform Izgaraları Sistemleridir.

GERSAN A.Ş. üretime başladığı günden bu yana işinde uzman teknik ve akademik personeliyle ürünlerin üretimlerinden kullanımına kadar olan aşamasında her türlü teknik hizmet ve çözümleri müşterisine sunmaktadır. Bu anlamda GERSAN A.Ş. tam anlamıyla bir "AR-GE" dolayısıyla "Teknoloji" firması olup müşterilerine geleceğin ürünlerini sunar.

Firmamız bünyesinde bulunan modern test laboratuvarında, IEC/TS EN 61439/1 ve 2 standartlarında adı geçen; Sıcaklık artısının, Elektriksel karakteristiklerinin, Yapısal dayanımın, Ezilmeye karşı dayanımın, Olağandışı ısılarla karşı izolasyon dayanımının, Alev yayılımına karşı dayanıklılığın doğrulanması, Yangın bariyeri ve EMC testleri hassas cihazlar ile yapılmaktadır.

Uluslararası belgelere dayandırdığımız üretimlerimiz, GOST, IEC, BS, TSE, EN, ISO 9001 ISO 14001, ISO 18001, AS-9100, CE sertifikalarımız ile Vietnam'dan Şili'ye, Arjantin'den Sri Lanka'ya, Cezayir'den Rusya'ya, Fas'tan Türkiye Cumhuriyetlere, Arnavutluk'tan Dubai'ye ve Katar'a, çeşitli ülkelerde gerçekleşen projelerde ülkemizin gurur kaynağı olmaktadır.

Kalite politikamız, müşterilerimizin isteklerini karşılayacak kaliteli ürün ve hizmetleri en ekonomik şekilde sunmak, zamanında teslim etmek, hizmetin ve kalitenin sürekliliğini sağlamaktır.

Hedefimiz kaliteli ve iyi malzemeyi sürekli olarak üretmektir. Temel hedefimiz, konumuzda bir dünya markası olmaktır.

Ürünlerimiz patentlidir. GERSAN A.Ş., %66'i halka açık olan, BIST 100'e kote olmuş bir şirkettir.

## Company Profile

GERSAN A.Ş. 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 A.Ş. 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 A.Ş. 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 A.Ş. 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)

## ALSTOM

### ALSTOM POWER SYSTEMS

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Tel: +33 (0) 141492000 Fax: +33(0) 141492485

## SIEMENS

### SIEMENS

Siemens Pakistan Engineering Co. LTD.  
B-72 ESTATE AVENUE S.I.T.E  
P.O. BOX 7158 KARACHI - 75700 PAKISTAN

## Petrofac



### Petrofac International LTD.

Petrofac House, Al-Soor Street  
P.O. Box: 23467 SHARJAH / U.A.E

## MITSUBISHI ELECTRIC

### Mitsubishi Electric Corpoation

P.O. Box 1554, Dubai, UAE.  
Tel: + (971) 4 282 7763  
Fax: + (971) 4 282 7716

## gama engineering

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## ABB

### ABB INDUSTRIES LLC.

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Fax: +971 4 3401530

## SIDEM

### SIDEM ( STÉ INTERNATIONALE DE DESSALEMENT

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Phone: + 33 149 957 676  
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**3M**

**3M COLOMBIA S.A**

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**THALES**

**Thales International Middle East (Branches)**

P.O. Box 125118, Dubai, UAE.  
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**SEA STAR INTERNATIONAL**

42-A Suite-15 Dostyk Ave 050010  
Almaty City - REPUBLIC OF KAZAKHISTAN  
Tel: 007-7272-304663 Fax: 007-7272-304235



**DENGE ENERGY LTD.**

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الفنية  
Alfaneyah

الشركة الفنية لتنفيذ الأعمال الكهروميكانيكية المحدودة  
Electromechanical & Technical Associates Co. Ltd

**Electromechanical & Technical Associates Co. Ltd**

Suite 1101, 1102, 1104, 11th Floor, Al-Murjan Tower, Hail Street,  
PB 6591 Jeddah 21452, Kingdom of Saudi Arabia  
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**Eurostrut®**



**Eurostrut / E-strut B.V.**

P.O Box 10025 3004 AA Rotterdam  
Ringersstraat 9 3125 BP Schiedam / The Netherlands  
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## ENSYTEC

### ENSYTEC

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### NETZER Electrical Engineering LTD.

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Email: sales@sche-netzer.com



### ZAO GERSAN-R

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www.gersan-r.ru gersan-r@gersan.com.tr



### Rainbow Machinery Solutions Pvt Ltd

S-3, Naveen Apartments, 10, 13th Main,  
Palace Road, Vasanthnagar, Bangalore - 560052  
+91 80 41611980



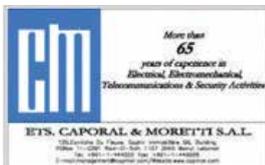
### RTI S.p.A.

Via Ambrosoli, 2/A 20090  
Rodano Millepini (MI) - Italy  
Tel: +39 02 95328610 Fax: +39 02 95328611



### Powerbreeze Engineering LTD.

House No - 9/5, Lane No-1, Block-B Section - 6, MIRPUR,  
DHAKA-1216 BANGLADESH Tel: +88-02-8035388 Fax: +88-02-9014847  
http://www.powerbreezxbd.com/



### ETS CAPORAL ET MORETTI S.A.L

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Tel: +961-1-444555 Fax: +961-1-446688



### Nexans

4-10 rue Mozart, Le Christophe 2  
92587 Clichy cedex  
France



### Croon TBI techniek

P.O. Box 5682, Manama  
101, Salmaniya Pearl, Road 5616, Bldg. 109 Wali Bldg. 280, Blk 356 Salmaniya  
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### MANA CONTROL Co.

[www.manaccontrol.com](http://www.manaccontrol.com)



### Polarvista

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### HUSSAIN & CO

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Phone: 0092-21-36341930, 36367002 Fax : 0092-21-36829633  
Email : [info@hussain-co.com](mailto:info@hussain-co.com) URL : [www.hussain-co.com](http://www.hussain-co.com)



### Kurgan-Balt

238324 Калининградская обл., Гурьевский р-н,  
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### Electricity and Water Authority (EWA)

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Tel: +973 17515555  
<https://www.ewa.bh> [customer@ewa.bh](mailto:customer@ewa.bh)

## TECS

### TECS TECHNICAL SUPPLIES

Building No 341-2, Way No 9993 Opposite to Rusayl Hotel,  
Rusayl Industrial Area P.O. Box - 130, P.C. - 124.  
Muscat, Sultanate Of Oman Tel: +968 24445426-430 Ext - 341  
<https://www.tecsintl.com>



شركة تنمية نفط عمان  
Petroleum Development Oman

### Petroleum Development Oman (PDO)

Postal Office Box 81, Postal Code 100  
Headquarters, Muscat, Sultanate of Oman  
Tel: +968 24678111 <https://www.pdo.co.om>



أدنوك  
ADNOC

### Abu Dhabi National Oil Company

West Corniche Street, PO Box 898,  
Abu Dhabi, United Arab Emirates  
Tel: +971 2 7070000 <https://www.adnoc.ae>



### ЭнергоСервис

Россия, Калининград, Ул. Эпроновская, 4-6.  
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## LOKYS

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TECNICAS REUNIDA

### TECNICAS REUNIDAS

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Edificio 6. Avenida de Burgos 8928050 Madrid - Spain  
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### Dubai Electricity & Water Authority (DEWA)

Al Hudaiba, Street 7, Gate 14, Opposite to Umar Bin Al Khattab Mosque / U.A.E.  
Tel: +971 4 6019999 <https://www.dewa.gov.ae>



### Extol International L.L.C.

Office no. 101, First Floor, Sheikh Khalifa Street, Al Ghumlasi Tower,  
P.O.Box. 22017 Ajman / U.A.E.  
Tel: +971 6 7412990 <https://www.extolintl.com>



### Kuwait Oil Company (K.S.C.)

P.O. Box 9758 Ahmadi 61008 Ahmadi, Kuwait Tel: +965 23989111  
<https://www.kockw.com>  
E-mail: kocinfo@kockw.com



### HIGH POWER BUSBARS

### HP Busbars GmbH

Kleiner Diebsteig 16 D-18439 Stralsund  
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info@hp-busbars.de [www.hp-busbars.de](http://www.hp-busbars.de)



### Abu Dhabi Water & Electricity Authority

Commercial Department PO Box: 70. Safat - 13001. Kuwait  
Tel: +965 23989900 <https://www.knpc.com>  
<https://www.knpc.com>



## SAIPEM S.P.A. (HEAD OFFICE)

Via Luigi Russolo, 20138 Milano - ITALY  
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## Kuwait National Petroleum Company (KNPC)

Commercial Department PO Box: 70. Safat - 13001. Kuwait  
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<https://www.knpc.com>



## Qatar Energy

P.O. Box 3212, Doha, Qatar  
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<https://www.qatarenergy.qa>



## TECNICAS REUNIDAS -ABU DHABI

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## SAMSUNG C&T

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## R&W Project Sp. z o.o.

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e-mail: [office.rwproject@gmail.com](mailto:office.rwproject@gmail.com)



**LARSEN AND TOUBRO LIMITED**

P.O BOX 24399 DOHA-QATAR



**MAIRE TECNIMONT S.P.A.**

Via Gaetano De Castillia, 6 A 20124 Milan, Italy +39 02 63131



**MAIRE TECNIMONT S.P.A.**

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Abu Dhabi 33473 United Arab Emirates.  
Tel: +971 2 5545006



**Emirates Electrical Engineering LLC**

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Tel: +971 4 4543400  
<https://eee-uae.com>

## ENERFLEX.

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Hamriyah Free Zone 1D-08,09,13 & 2B-06,07 & HC-03  
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Tel: +971 65916700 Fax: +971 65260046



LARSEN & TOUBRO

### Power Transmission & Distribution IC, Larsen & Toubro Limited (L&T)

Power Transmission & Distribution IC, Larsen & Toubro Limited (L&T)  
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P.O. Box 63671, Sharjah, UAE

## SAMSUNG

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ENGINEERING

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Samsung GEC, 26, Sangil-ro 6-gil,  
Gangdong-gu, Seoul, Korea  
TEL: +02-2053-3000

## Gomaple

### COMAPLE

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MADRID- ESPAÑA (+34) 91 815 24 61

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Project One

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Scheldelaan, 482 B-2040 Antwerpen - Bilgium  
BE- 0716953031

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 AYL ELEKTROMEKANİK  
 AYKAR TEKSTİL A.Ş.  
 AYKON ELK. LTD. ŞTİ.  
 BAHAT ELEKTRİKLİ EV ALETLERİ LTD. ŞTİ.  
 BAKOND TTM  
 BAKOND TTM  
 BAKOND TTM  
 BAKYAPI İNŞ. TİC. A.Ş.  
 BALPA İNŞAAT SAN. A.Ş.  
 BARTIN SİSTEM ENERJİ LTD. ŞTİ.  
 BARTIN SİSTEM ENERJİ LTD. ŞTİ.  
 BAŞARI ELK. LTD. ŞTİ.  
 BAŞKAL ELEKTRİK LTD.  
 BAŞKAL ELEKTRİK LTD.  
 BAŞKAL ELEKTRİK LTD.  
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 BAŞKAL ELEKTRİK LTD.  
 BAŞKAL ELEKTRİK LTD.  
 BAYMAK MAKİNA AŞ.  
 BC YAPI MÜH. A.Ş.  
 BEDİR ISITMA SOĞUTMA TİC. LTD. ŞTİ.  
 BEL CONSTRUCTION  
 BERRPLAS ELEKTRİK EV ALETLERİ LTD. ŞTİ.  
 BEST INTERNATIONAL  
 BHARTIYA INT. LTD  
 BIN GHALIB ENGINEERING  
 BIN LADEN CONTRACTING  
 BIN LAHEJ ELECTROMECHANICAL L. L. C.  
 BİLGE ELEKTRİK  
 BİLGE ELEKTRİK  
 BİLGE ELEKTRİK  
 BİLGE ELEKTRİK  
 BİLGE ELEKTRİK  
 BİRİKİM KALIP LTD. ŞTİ.  
 BİRTEK BİR. TEK. LTD.  
 BİSKON YAPI A.Ş.  
 BİWATER INT. LTD.  
 BOLEM ELEKTRİK LTD.  
 BOUYCUES BATIMENT  
 BOUYCUES BATIMENT  
 BOUYCUES BATIMENT  
 BOZKURT ELK. LTD. ŞTİ.  
 BUKAMAL  
 BUKAMAL  
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 BUKAMAL  
 BYS ALPACA CARPET LTD.  
 BZ MÜHENDİSLİK A.Ş.  
 BZ MÜHENDİSLİK A.Ş.  
 C BUSBAR SAN.VE TİC.A.Ş.  
 CAFFNEY KROESE ELEC  
 CANÇELİK ELK. LTD. ŞTİ.  
 CAN-EL MÜHENDİSLİK  
 CANTEK SOĞUTMA A.Ş.  
 CARA İNŞAAT A.Ş.  
 CASPIAN-CLC.MMC  
 CBUSBAR  
 CENİKA

SELEKTA YAŞAM EVLERİ  
 KEY TEKNİK İTOSB FABRİKA  
 NIĞDE FABRİKASI  
 K.MÜRSEL KIZILDERBENT  
 BAKU CLOCK TOWER  
 CITY CARDENS  
 CLOCK TOWER  
 PRESTİJ OPTİMUM SİTESİ  
 İSPARTAKULE EMLAK KONUT  
 DÖNMEZ ORMAN ÜRÜNLERİ  
 EUROSAN PENCERE VE KAPI SİSTEMLERİ  
 ANIL DAMPER  
 AYNUR METAL  
 CEDAŞ GENEL GIDA FAB.  
 K.C.S. CAM  
 KADİR HAS KONGRE MER.  
 KAYPLAST PLASTİK  
 KAYSERİ ŞEKER ÇUVAL FABRİKASI

NEWROZ CITY ERBİL

BEST INTERNATIONAL

ABUDHABI INTERNATIONAL AIRPORT  
 LABOUR COURT DUBAI MUNICIPALITY  
 EMERALD RESIDENTIAL BUILDING AL JADDAF  
 BOYTEKS  
 DİNARSU ÇERKEZKÖY  
 GRUP SUNİ DERİ  
 MEGA ELEKTRONİK  
 POLİFARMA İLAŞ  
 İSTANBUL SİLAH  
 KIRPART OTOMOTİV  
 REFERANS KARTAL KORDONBOYU  
 PİATRA NEMAT  
 GRANİSER SERAMİK  
 ICP PROJECT  
 MAE PROJECT  
 MED PROJECT  
 BOFOR DENİZCİLİK  
 BAHRAIN INTERNATIONAL AIRPORT  
 MANNAI PLAZA  
 MIXED USED DEVELOPMENT (DISTRICT TOWER)  
 PROPOSED RESIDENTIALS BUILDING AT SEEF  
 SUKOON TOWER

MEFA KAUCUK  
 META KİMYA DİLOVASI  
 İBB ÇEKMEKÖY HAMİDİYE MAH. KÜLTÜR MERKEZİ  
 KHALEEJ TIMES  
 PLASMET A.Ş.  
 TAİ TUSAŞ HAV.UZ.SAN.

PSL ELEKTRONİK+FİBERLİ,

ECM HİZMET BİNASI  
 ÇOKOLADE FABRİBEN

İSTANBUL  
 İSTANBUL  
 NIĞDE  
 KOCAELİ  
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 AZERBAJYAN  
 AZERBAJYAN  
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 BURSA  
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 BARTIN  
 İSTANBUL  
 KAYSERİ  
 YOZGAT  
 KAYSERİ  
 KAYSERİ  
 KAYSERİ  
 SAMSUN  
 KAYSERİ  
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 İSPARTA  
 BANGLADESH  
 İSTANBUL  
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 İNDIA  
 ABUDHABI  
 DUBAI/UAİ  
 DUBAI/UAİ  
 ÇORLU  
 TEKİRDAĞ  
 ÇORLU  
 TEKİRDAĞ  
 İSTANBUL  
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 BURSA  
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 ROMANYA  
 MANİSA  
 KAZAKİSTAN  
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 KOCAELİ  
 KOCAELİ  
 İSTANBUL  
 DUBAI DUBAI,UAİ  
 İSTANBUL  
 ANKARA  
 ANTALYA  
 ANTALYA  
 AZERBAJYAN  
 K.MARAŞ  
 NORWAY

CENIKA  
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 CENK ELK. LTD. ŞTİ.  
 CHINASTATE CONSTRUCTION CORP.ME. LLC.  
 CİLAS KAÜÇUK A.Ş.  
 CK KORKMAZ ELK. LTD. ŞTİ.  
 CK KORKMAZ ELK. LTD. ŞTİ.  
 CONSTRUCT FURN.  
 CONVERSION ELECTROMECHANICAL CO.  
 CONVERSION ELECTROMECHANICAL CO.  
 CONVERSION ELECTROMECHANICAL CO.  
 CONVERSION ELECTROMECHANICAL CO.  
 CONVERSION ELECTROMECHANICAL CO.  
 CONVERSION ELECTROMECHANICAL CO.  
 CROON  
 CRYSTAL IND. LTD.  
 CUMBEERLAND  
 CUMBEERLAND  
 CUMBEERLAND  
 CUMBEERLAND  
 CUPPLAST AMBALAJ A.Ş.  
 ÇAĞLA ELEKTRİK  
 ÇAĞLA ELEKTRİK LTD.  
 ÇAĞLA ELK. LTD.ŞTİ.  
 ÇAĞLA ELK. LTD.ŞTİ.  
 ÇAĞLA GRUP ELK. AŞ.  
 ÇAĞ-PLAST PLASTİK AMBALAJ LTD. ŞTİ.  
 ÇAMSAN GAYRİMENKUL A.Ş.  
 ÇANAKCILAR YAPI A.Ş.  
 ÇEMSAN END. A.Ş.  
 ÇETİNKAYA MENSUCAT  
 DALGAKIRAN MAK. A.Ş.  
 DALGIÇ KALIP A.Ş.  
 DALGIÇ KALIP A.Ş.  
 DAMAC  
 DANWAY ELEC. LLC.  
 DANWAY LLC.  
 DAR AL QUBTAN EST.  
 DARIEH CONTRACTING  
 DARWISH QATAR.  
 DATA ELEK. LTD. ŞTİ.  
 DEĞER ELEKTRİK LTD. ŞTİ.  
 DEĞER ELEKTRİK LTD. ŞTİ.  
 DEİMA ELEKTROMEKANİK ÜR. SAN. TİC. A.Ş.  
 DELTA ELEKTRİK OTOM.  
 DEMAŞ MÜH. ELK. LTD.  
 DEMAŞ MÜH. LTD. ŞTİ.  
 DENGÉ ENERGY LTD  
 DENİZ EKSPORT TEKS. LTD. ŞTİ.  
 DENİZ EKSPORT TEKSTİL. LTD. ŞTİ.  
 DENİZ ELK. TAAH. LTD.  
 DEPAR ELEKTRİK  
 DEPAR ELEKTRİK LTD. ŞTİ.  
 DEPAR ELEKTRİK LTD. ŞTİ.  
 DESIGN GRUP ELK MEK. İNŞ. SAN. TİC. LTD. ŞTİ.  
 DETAY ARITMA LTD.ŞTİ.

MALMLAGER  
 SLATTLAND  
 SMART SKAP 4  
 STRANDEN  
 THUNESVEDT  
 AMETİST KONUTLARI  
 EMAAR- DOWNTOWN VIEWS II

KELEŞ CENTER AIRPORT  
 KÜÇÜKÇEKMECE ADLIYE

DAMAC AYKON CITY TOWER C  
 DAMAC- GHALIA TOWER G+38 FLORS +ROOF  
 DAMAC-PRIVE TOWER  
 EMAAR- GOLF CLUB HOUSE  
 EMAAR-PARK DUBAI HILLS ESTATE ,DUBAI UAE  
 NAKHEEL-IBIS HOTEL  
 NASHMA RAWDHA APARTMENTS DUBAI UAE  
 ROTTERDAM PROJECT

RAS ABU FONTAS  
 SHOIBA PROJECT  
 YANBU PROJECT  
 YIBAL KUFF PROJECT +YKP  
 GEBZE FABRİKA  
 GÖREN OTOMOTİV  
 SAYDAM TEKSTİL  
 BABİL AVM  
 NEO AVM ESKİŞEHİR  
 NEO AVM PENDİK

ÇAMSANPARK AVM  
 DOXA SERAMİK

İPLİK-6  
 DİLOVASI FABRİKA  
 DALGIÇ KALIP BURSA FAB.  
 SHINKO KALIP DİLOVASI  
 BURJ DAMAC MARINA  
 DEWAL STATION  
 DUBAI AIRPORT EXT.  
 JUFFALI MERCEDES FAC.  
 BURJ DAMAC MARINA (B+G+20)  
 OASIS HOTEL  
 EMT METAL PRES  
 BOTAŞ HANAK KOMP. İST.  
 ERDAL TİCARET  
 SİNBO KÜÇÜK EV ALETLERİ  
 ERDAL TİC. BALIKESİR  
 METRO 34 RESİDENCE İKİTELLİ  
 METRO 34 İKİTELLİ

MADIYO IVANO  
 DİLAN TEKSTİL  
 MES YATIRIM  
 PLASTMET KALIP  
 KÇ PLASTİK  
 UĞUR PLASTİK  
 İGA YİĞİTALP ÇAMAŞIRHANE  
 BEYŞEHİR AAT

NORWAY  
 NORWAY  
 NORWAY  
 NORWAY  
 NORWAY  
 ANKARA  
 DUBAI/UAE  
 ZONGULDAK  
 İSTANBUL  
 İSTANBUL  
 MALTA  
 DUBAI/UAE  
 DUBAI/UAE  
 DUBAI/UAE  
 DUBAI/UAE  
 DUBAI/UAE  
 DUBAI/UAE  
 DUBAI/UAE  
 HOLLAND  
 BANGLADASH  
 QATAR  
 K.S.A  
 K.S.A.  
 QATAR  
 KOCAELİ  
 TEKİRDAĞ  
 BURSA  
 DİYARBAKIR  
 ESKİŞEHİR  
 İSTANBUL  
 MANİSA  
 İSTANBUL  
 ZONGULDAK  
 SAKARYA  
 KAYSERİ  
 KOCAELİ  
 BURSA  
 KOCAELİ  
 QATAR  
 UAE.  
 DUBAİ  
 K.S.A  
 QATAR  
 QATAR  
 KOCAELİ  
 ARDAHAN  
 BALIKESİR  
 İSTANBUL  
 BALIKESİR  
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 KAZAKİSTAN  
 RUSYA  
 RUSYA  
 KOCAELİ  
 İSTANBUL  
 İSTANBUL  
 İSTANBUL  
 İSTANBUL  
 KONYA

DFD MÜHENDİSLİK  
 DHAFIR SWITCHGEAR  
 DHAFIR SWITCHGEAR / AEC  
 DHAFIR SWITCHGEAR / IBA  
 DHAFIR SWITCHGEAR QATAR  
 DHAFIR SWITCHGEAR QATAR  
 DHAFIR SWITCHGEAR QATAR / AEB  
 DHAFIR SWITCHGEAR QATAR / SEMAC  
 DHAKA TOBACCO IND.  
 DISHA ELECTRONICS  
 DISHA ELECTRONICS  
 DIVINE TEXTILE LTD.  
 DMG MÜHENDİSLİK LTD.  
 DMY MÜHENDİSLİK  
 DOĞAN ELEKTROMEKANİK LTD.  
 DOĞANLAR ÇELİK LTD.  
 DOĞUŞ İNŞAAT A.Ş.  
 DOLE ELK. LTD. ŞTİ.  
 DORUK İLETİŞİM A.Ş.  
 DRAKE & SCULL / SPECON -JV  
 DUBAI WALLS  
 E.S.M.M. TEKNİK LTD. ŞTİ.  
 EAGLE ELECTROMECHANICAL CO. L.L.C  
 ECZACIBAŞI TÜKETİM ÜRÜNLERİ SAN.VE TİC.  
 EFE ELEKTRİK LTD. ŞTİ.  
 EGESİM OTOMATİK KONT.  
 EGGER(ROMA) PLASTİK SAN. A.Ş.  
 EKERLER KAĞIT TORBA VE POŞET AMBALAJ SAN.VE  
 EKİN ELEKTRİK NALB.  
 EKON END. A.Ş.  
 EKŞİN İNŞ. ELK. TAAH.  
 ELATEK KAÇUK LTD.  
 ELECTRAPLAN KFT  
 ELEKSİS ELK. LTD. ŞTİ.  
 ELEKSİS ELK. LTD. ŞTİ.  
 ELEKTROSİS ARK YAPI  
 ELEMEC ELECTROMECHANICAL CONT. LLC.  
 ELEMEC ELECTROMECHANICAL CONT. LLC.  
 ELİST MÜH. LTD. ŞTİ.  
 ELİT MAKİNA LTD. ŞTİ.  
 ELİTPAK AMBALAJ LTD. ŞTİ.  
 ELKA ELEKTRİK LTD.  
 ELMAK ELEKTRONİK  
 ELPARTS LTD.ŞTİ.  
 ELSAN END. LTD. ŞTİ.  
 ELTAŞ ENERJİ ELEKTRİK  
 ELTAŞ ENERJİ ELEKTRİK  
 ELTE MÜH.ELK. LTD. ŞTİ.  
 ELTES ELK. LTD. ŞTİ.  
 ELTES ENERJİ LTD. ŞTİ.  
 EMC MÜH. ELK. A.Ş.  
 EMEGSAN ELK. LTD. ŞTİ.  
 EMP ELEKTRİK MÜHENDİSLİK  
 EMSAN MÜH. LTD. ŞTİ.  
 ENBAR MÜHENDİSLİK SAN. VE TİC. LTD. ŞTİ.  
 ENBAR MÜHENDİSLİK SAN. VE TİC. LTD. ŞTİ.  
 ENERTEC  
 ENERTEC  
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 ENERTEC

OBI-KAZAN  
 VILLAGIO MALL EXTENSION  
 G+Ğ AL SAAD  
 TWIN TOWER  
 G+4 BUILDING  
 QIB HOTEL  
 ABU SALAH BUILDING  
 FORD SHOWROOM

AEPC PROJECT  
 AEPC PROJECT

HILTON OTEL  
 AGER MAKİNA  
 BURA RESIDANCE / ESENYURT  
 KONYA MAVİ TÜNEL  
 KONYA MAVİ TÜNEL  
 AL FATEH UNV.  
 DORUK NET  
 HABTOOR CITY-STE 626  
 DANUBE RESORTZ  
 NOVADA AVM SÖKE  
 AL FAHAD I & II

DÜZCE SPOR KOMP.  
 ÇELİKLER JES  
 GEBZE FABRİKA

AREVA GEBZE  
 İSKENDERUN DEMİR Ç.  
 ABDULLAH GÜL ÜNİVERSİTESİ

BAUMAX ESKİŞEHİR  
 ULUGÖL OTOMOTİV OFİS  
 SHERATON OTEL  
 MERANO TOWER BUSINESS BAY DUBAİ8 UAE.  
 RESIDENTIAL BUILDING SAADIYAT ISLAND  
 TALATPAŞA 34

TELLİOĞLU UN FABRİKASI  
 AKÇANSA ÇİMENTO  
 DOĞU AKDENİZ ÜNV.  
 AKADİA MODERN  
 BİZİM MERMER  
 ELLİ ALÜMİNYUM  
 STARA ZAGORA  
 BALIKESİR HAVA LİMANI  
 KIRAZLIK HES  
 YAROSLAV KONSER SAĞ.  
 HÜSEYİN AKİF TERZİOĞLU YURT BİNASI  
 ÜNİTEKS TEKSTİL ÇERKEZKÖY  
 VATAN PRES  
 AVCILAR 4000 KİŞİLİK YURT BİNASI  
 NATURA ALACAATLI KONUT YENİMAHALLE  
 BAUPRO  
 BRILLUX  
 ENERCON  
 HOPPECKE BRILLON

TATARİSTAN  
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 BANGLADESH  
 INDIA  
 INDIA  
 BANGLADASH  
 TRABZON  
 ROMANYA  
 İSTANBUL  
 ANKARA KONYA  
 ANKARA KONYA  
 LIBYA  
 İSTANBUL  
 DUBAİ/UAE  
 DUBAİ/UAE  
 AYDIN  
 DUBAİ/UAE  
 KOCAELİ  
 DÜZCE  
 AYDIN  
 KOCAELİ  
 KONYA  
 KOCAELİ  
 HATAY  
 KAYSERİ  
 BURSA  
 MACARİSTAN  
 ESKİŞEHİR  
 İSTANBUL  
 ADANA  
 DUBAİ/UAE  
 ABUDHABI  
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 KOCAELİ  
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 ÇANAKKALE  
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 ANKARA  
 ADANA  
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 BULGARIA  
 BALIKESİR  
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 RUSYA  
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 TEKİRDAĞ  
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 GERMANY  
 GERMANY  
 GERMANY



GERSAN-R ZAO  
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 GERSAN-R ZAO  
 GİRİŞİM ELEKTRİK A.Ş.  
 GLOKAL MÜH. SAN. A.Ş.  
 GOEL CONST.  
 GÖKMETAL SAC SAN. A.Ş.  
 GRID SOLUTION ENERJİ ENDÜSTRİSİ A.Ş.  
 GRID SOLUTION ENERJİ ENDÜSTRİSİ A.Ş.  
 GTC GÜNE SAN. TİC. A.Ş.  
 GÜNAL-MAPA ADI ORTAKLIĞI  
 GÜNGÖR ZEYTİNCİLİK LTD. ŞTİ.  
 GÜNYAP ELEKTRİK İNŞ.TAAH.MÜH.MÜŞV.SAN.  
 GÜRALSAN MÜH. LTD. ŞTİ.  
 GÜROK TURİZM VE MAD. A.Ş.  
 HAKSAN OTOMOTİV A.Ş.  
 HAŞÇELİK SAN. TİC. A.Ş.  
 HAT OTOMASYON LTD.  
 HATEEN ELECTROMECHANICAL  
 HCC /JAIDAH GROUP  
 HMA MÜHENDİSLİK LTD.  
 HOTEL QUEEN PVT.LTİ.  
 HSR GRUP  
 HUSSAIN CO.  
 HUSSAIN CO.  
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 ILLUKKUMBURA LTD.  
 INNOVA MÜHENDİSLİK TİC. LTD. ŞTİ.  
 INTECRA INTERNATIONAL  
 INTEMED DIŞ TİC.KOLL.  
 INTERNATIONAL ELECTRO-MECH. CO L.L.C.  
 INTERNATIONAL ELECTRO-MECH. CO L.L.C.  
 INTERNATIONAL ELECTRO-MECH. CO L.L.C.  
 INTERNATIONAL ELECTRO-MECH.CO L.L.C.  
 IPEL S.A.  
 IPH GmbH  
 IRENE KNITWEAR LTD.  
 IRMAK KESİNTİSİZ ENERJİ ELEKTRİK LTD. ŞTİ.  
 IRMAK KESİNTİSİZ ENERJİ ELEKTRİK LTD. ŞTİ.  
 İŞİN ELEKTRİK A.Ş.  
 İŞİN ELEKTRİK LTD. ŞTİ.  
 İDEAL GIDA AŞ.  
 İES GALVANİZ SAN. A.Ş.  
 İKEY ELEKTRİK LTD. ŞTİ.  
 İKEY ELEKTRİK LTD. ŞTİ.  
 İKEY ELEKTRİK LTD. ŞTİ.  
 İKEY ELEKTRİK LTD. ŞTİ.  
 İKEY ELEKTRİK LTD. ŞTİ.  
 İKEY ELEKTRİK LTD. ŞTİ.  
 İK-HE İNŞAAT TAAH. LTD. ŞTİ.  
 İKİZLER AYDINLATMA  
 İLHAM ELEKTRİK  
 İLHAM ELEKTRİK MÜH.  
 İLMUS PASLANMAZ LTD. ŞTİ.  
 İMSAN ELK. LTD. ŞTİ.

NIJNİ NOVCOROD AVM  
 PET4 PROJECT  
 PET5 PROJECT  
 SHERATON MOSKOVA  
 SHERATON MOSKOVA-3  
 VİLADİMİR CAM FAB.  
 VOLGA PROJECT  
 YEKATERINBURC ELETEH  
 9 EYLÜL ÜNİVERSİTESİ  
 KOCAELİ 33000 KİŞİLİK STADYUM  
 SAMSUNG  
 EREĞLİ OSB ÇELİK SERVİS MERKEZİ  
 AŞAĞI KALEKÖY HES  
 KARAKURT HES  
 SOLAR PANEL FABRİKASI  
 850 YATAKLI DEVLET HASTANESİ

KROMAN ÇELİK İLERİ FİLMAŞİN İŞLEME TESİSİ  
 ŞİRİNGA FABRİKASI  
 LAV CAM FABRİKASI

TAYSAD FABRİKA

AL MAMZAR AL KHAN  
 HOTEL 209  
 TORQU PATATES DEPOSU  
 HOTEL QUEEN  
 ACU PLAZA ÜMRANİYE  
 EMAAR  
 REVİN  
 EVORA İZMİR  
 SHEET METAL PROCESSING PLANT

BOTAŞ SAROS KÖRFEZİ LNG-FSRU PROJESİ  
 HYDAR I AT DOHA

EMAAR THE ADDRESS HARBOUR POINT  
 MARQUISE SQUARE BUSINESS BAY DUBAI  
 RESIDENTIAL TOWER AT GARHOUD DUBAI  
 DAFZA-DUBAI COMMERCITY

TEST LABORATORY

BAŞOĞLU ORMAN ÜRÜNLERİ  
 BAŞOĞLU ORMAN ÜRÜNLERİ  
 AFRAZE KONUTLARI KARTAL  
 HÜRMAK PLASTİK  
 ÜLKER

BAŞKENT BORU PROFİL FAB.  
 ERİN RAF ÇERKEŞ FAB.  
 NUH MAKARNA  
 ORMAKSAN HİDROLİK  
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 YK MÜHENDİSLİK  
 YUCEL-M LTD.  
 YUCEL-M LTD.  
 YUCEL-M LTD.  
 YUCEL-M LTD.  
 YUCEL-M LTD.  
 YURTSEVER ELK. A.Ş.  
 YÜCEL BORU  
 ZEENNI STEEL S.A.R.L.  
 ZİNCA METAL A.Ş.

LİMONPARK AVM  
 MEPSAN TRAÇO  
 MOTUS DÖKÜM  
 OSLO GIDA  
 PARKMAHAL KONUTLARI  
 SERİN DORSE  
 TATLISUMAKLAR  
 TEKNİK ISIL İŞLEM  
 TÜZÜN GRUP  
 YUMAK HAVALI FENS SİST.  
 BUTKON ASANSÖR  
 BY STOLE MASA SANDALYE FABRİKASI  
 GEÇGEL OTOMOTİV

BALIKESİR BİYOGAZ ENERJİ SANTRALI  
 ÇORLU ATIKSU ARITMA  
 ERGENE T. ORG. AAT  
 KEŞAN ATIKSU ARITMA  
 DUET PROJECT  
 ATABEY LOJİSTİK  
 İZBASKI  
 MEHTAP ÇELİK  
 TEKNİK SÁC  
 BROOKLYN PARK  
 MEGA ADYGEA  
 KEMPINSKI THE WAVE MUSCAT  
 VILLACIO MALL EXTENSION  
 ESENLER VERGİ DAİRESİ  
 ÜMRANIYE VERGİ DAİRESİ  
 EAG TURİZM MALTEPE İŞ MERKEZİ  
 GOLD N STATE OFİS  
 SCHWARTZ HAUTMONT  
 ASELSAN REHİS BİNASI  
 ASELSAN SST BİNASI  
 ROKETSAN HİZMET BİNASI  
 DOUBLE TREE BY HILTON  
 MAHMUTOĞULLARI MAK.  
 RİTON STONES MERMER  
 TEKNOMER MERMER

KUŞTEPE ADLİYE

ANKARA TÜNEL  
 AEROFLOT PROJECT  
 BEMP PROJECT  
 MOSRIBHOZ TRADE CENT  
 NOVA CONSTRUCTION  
 STROYKOM PROJECT  
 ARDIÇ PARK ÖZLÜCE AVM  
 YÜCEL BORU

DEMİDOR ALÜMİNYUM

MERSİN  
 KONYA  
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 ANKARA  
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 KAYSERİ  
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 BALIKESİR  
 TEKİRDAĞ  
 TEKİRDAĞ  
 EDİRNE  
 UKRAINE  
 KOCAELİ  
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 RUSYA  
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 ANKARA  
 RUSYA  
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 RUSYA  
 BURSA  
 İSKENDERUN  
 LÜBNAN  
 İSTANBUL

PENINSULA PLOT-A	CHINA STATE CONSTRUCTION ENGINEERING CORPORATION (MIDDLE EAST) (L.L.C)	DUBAI
PENINSULA PLOT-A	CHINA STATE CONSTRUCTION ENGINEERING CORPORATION (MIDDLE EAST) (L.L.C)	DUBAI
3 G+4P+12+HC RESIDENTIAL BUILDING AL BARSHA	GESCO	DUBAI
4 RESIDENTIAL BUILDING G+P+12 FLOORS+ROOF ON PLOT NO. 2310158 AT NAHDA FIRST	SHAANXI CONSTRUCTION ENG GP CO LTD.	DUBAI
5 RESIDENTIAL BUILDING B+G+6+R+UR ON PLOT NO. 4210351 AT WARQAA FIRST	SHAANXI CONSTRUCTION ENG GP CO LTD.	DUBAI
6 LA VIE TOWER	ELEMEC ELECTROMECHANICAL CONTRACTING LLC.	DUBAI
7 UNION COOPERATIVE	EURO GULF TECHNOSERVICES L.L.C	DUBAI
8 MARS AL ARAB	AL SHAFAR UNITED ELECTROMECHANICAL	DUBAI
9 DEWA HEAD QUARTERS (GREEN PROJECT)	VOLTAS	DUBAI
10 AL MAKTUUM INTERNATIONAL AIRPORT-DUBAI PLUS PROJECTS-CER EQUIPMENT ROOM	AL NABOODAH MEP LLC	DUBAI
11 B+G+P+9 RES COMM BLDG	AGMEP	AGMEP
12 2B+G+23 RESIDENTIAL BUILDING (PLOT-674-196 MOTOR CITY).	LOOTAH INVESTMENT.	DUBAI
13 REVA PROJECT	NASCON ENGINEERING	DUBAI
14 Y TOWER	REMCO	DUBAI
15 LULU DSO	REMCO	DUBAI
16 SUNRISE BAY	REMCO	DUBAI
17 COMMERCIAL AND RESIDENTIAL BUILDING G+3P+16TYP FLOORS+17 FLOOR ON PLOT NO. 2310359 @ AL NAHDA FIRST	EMT	DUBAI
18 ADEO LIVING (PROPOSED B+G+29+ROOF RESIDENTIAL TOWER)	TECHNOMECH ELECTROMECHANICAL WORKS L.L.C.	DUBAI
19 VIDA TOWER	AL SHAFAR UNITED ELECTROMECHANICAL	DUBAI
20 ADRESS HARBOUR PROJECT	INTERNATIONAL ELECTRO-MECHANICAL SERVICES CO L.L.C.	DUBAI
21 PARAMOUNT TOWER HOTEL & RESIDENCES 2B+G+10P+54+R AT BUSINESS BAY DUBAI	NASCON ENGINEERING	DUBAI
22 AYKON CITY PLOT NO-1 TOWER B	NASCON ENGINEERING	DUBAI
23 AYKON CITY PLOT NO-1 TOWER C	CONVERSION ELECTROMECHANICAL CO.	DUBAI
24 PARK RIDGE	CONVERSION ELECTROMECHANICAL CO.	DUBAI
25 2B+G+1+ROOF COMMERCIAL BLDG.AL WARQA'A 3RD	EURO GULF TECHNOSERVICES L.L.C	DUBAI
26 ACT 1 & ACT 2 TOWER	RELIANCE CONTRACTING CO	DUBAI
27 3B+G+17+R COMMERCIAL / RESIDENTIAL BUILDING 125-0159 RIGGA, AL BUTEEN, DUBAI.	FUJAIH NATIONAL CONSTRUCTION CO. LLC	DUBAI
28 FAKHEE HOSPITAL AT DSO DUBAI	SPECTRUM CUBE	DUBAI
29 2B+G+14+R COMMERCIAL & RESIDENTIAL BUILDING, PLOT No. 3261064, AL JADAF, DUBAI	BIN LAHEJ ELECTROMECHANICAL L. L. C.	DUBAI
30 PROPOSED RESIDENTIAL AND RETAIL BUILDING B+G+4P+MECH+22+ROOF	TECHNOMECH ELECTROMECHANICAL WORKS L.L.C	DUBAI
31 3B+G+13+ROOF COMMERCIAL AND RESIDENTIAL TOWER	TECHNOMECH ELECTROMECHANICAL WORKS L.L.C	DUBAI
32 EXPO VILLAGE	AL FUTTAIM	DUBAI
33 DUBAI INTERNATIONAL AIRPORT SP473	KHARAFI INTERNATIONAL	DUBAI
34 KEMPINSKI BUSINESS BAY DUBAI	SOBHA ELECTROMECHANICAL WORKS LLC	DUBAI
35 MARQUISE SQUARE TOWER (3B+G+29+R) ON PLOT NO 346-520 BUSINESS BAY DUBAI	INTERNATIONAL ELECTRO-MECHANICAL SERVICES CO L.L.C.	DUBAI

36	AKOYA DAMAC CARSON TOWERS RESIDENTIAL APART (TOWER A,B & C)	RELIANCE ELECTRO-MECHANICAL PLUMBING CONTRACTING CO	ABUDHABI
37	M/S. EPC FOR GREENFIELD LIQUID TERMINAL ABU DHABI (PHASE- 1A/B)	AMISTED	ABUDHABI
38	TABREED DB-12	VERGER	ABUDHABI
39	DATA CENTER PROJECT	VERGER	ABUDHABI
40	"SADIYAT RESIDENSIAL BUILDING AT ABUDHABI"	"ELEMEC ELECTRICAL CONTRACTING LLC"	ABUDHABI
41	ITTIHAD PAPER MILL FACTORY	ENGSOL	ABUDHABI
42	CROWN PAPER MILL FACTORY	ENGSOL	ABUDHABI
43	U/C BUILDING B+G+8 TYPICAL FLOOR	TWO FOLD ELECTROMECHANICAL	SHARJAH
44	U/C BUILDING G+5P+15 TYPICAL FLOOR	TWO FOLD ELECTROMECHANICAL	SHARJAH
45	PROPOSED B+G+5P+15 AL MAMZAR AL KHAN	SHARJAH ISLAMIC BANK & ASAS REAL ESTATE	SHARJAH
46	U/C BUILDING B+G+8 TYPICAL FLOOR	TWO FOLD ELECTROMECHANICAL	SHARJAH
47	U/C BUILDING G+5P+15 TYPICAL FLOOR	TWO FOLD ELECTROMECHANICAL	SHARJAH
48	SHARJAH EXPO HOTEL	SHARJAH EXPO HOTEL L.L.C	SHARJAH
49	UNION COOPERATIVE	AL NEEFA	UMM AL QUWAIN
50	B+G+M+P+20 RESIDENTIAL BUILDING AT DAFAN	AL ENSHA ELECTROMECHANICAL	RAS AL
51	QETAIFAN ISLAND NORTH -PACKAGE 5 HOTEL	DOHA CABLES	KHAIMAH
52	NISHAN TOWER COM-19- LUSAIL MARINA-QATAR 4B+G+3P+24F.	DOHA CABLES	QATAR
53	LUSAIL MARINA COM 31	DOHA CABLES	QATAR
54	OASIS HOTEL PROJECT	DARWISH	QATAR
55	NISHAN TOWER (4B+G+3P+24F)	DOHA CABLES	QATAR
56	DILMUNIA	KANSTRADING	QATAR
57	BAHRAIN INTERNATIONAL AIRPORT	BUKAMAL	BAHRAIN
			BAHRAIN







	Sipariş Kodu Order code	Amper A	Sayfa Page		Sipariş Kodu Order code	Amper A	Sayfa Page
ARABOY ELEMAN 3P+N+1/2 PE <i>Non-Standard Length Element 3P+N+1/2 Pe</i>	GGD-A 201001	160	51	90° DİKEY OFSET ELEMANI (SAĞ) 3P+N+1/2 PE <i>90° Vertical Offset Element (Right) 3P+N+1/2 PE</i>	GGD-A 200126	160-400	62
	GGD-A 202001	250	51		GGD-C 200126	160-800	62
	GGD-A 203001	315	51				
	GGD-A 204001	400	51	90° DİKEY OFSET ELEMANI (SOL) 3P+N+1/2 PE <i>90° Vertical Offset Element (Left) 3P+N+1/2 PE</i>	GGD-A 200125	160-400	62
	GGD-C 201001	160	51		GGD-C 200125	160-800	62
	GGD-C 202001	250	51				
	GGD-C 203001	315	51	STANDART BOY ELEMAN 3P+N+1/2 PE <i>Standard Length Element 3P+N+1/2 Pe</i>	GGD-A 205000	500	64
	GGD-C 204001	400	51		GGD-A 206000	630	64
	GGD-C 205001	500	51		GGD-A 208000	800	64
	GGD-C 206001	630	51		GGD-A 210000	1000	64
	GGD-C 208001	800	51				
EK TAKIMI 3P+N+1/2 PE <i>One-Bolt Joint Set 3P+N+1/2 PE</i>	GGD-A 6135	160-400	52	ARABOY ELEMAN 3P+N+1/2 PE <i>Non-Standard Length Element 3P+N+1/2 Pe</i>	GGD-A 205001	500	65
	GGD-C 6135	160-800	52		GGD-A 206001	630	65
					GGD-A 208001	800	65
					GGD-A 210001	1000	65
90°YATAY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE <i>90° Horizontal Elbow Element (Right) 3P+N+1/2 PE</i>	GGD-A 200102	160-400	53	90°YATAY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE <i>90° Horizontal Elbow Element (Right) 3P+N+1/2 PE</i>	GGD-A 200106	500-1000	67
	GGD-C 200102	160-800	53				
90°YATAY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE <i>90° Horizontal Elbow Element (Left) 3P+N+1/2 PE</i>	GGD-A 200101	160-400	53	90°YATAY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE <i>90° Horizontal Elbow Element (Left) 3P+N+1/2 PE</i>	GGD-A 200105	500-1000	67
	GGD-C 200101	160-800	53				
90°DİKEY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE <i>90° Horizontal Elbow Element (Right) 3P+N+1/2 PE</i>	GGD-A 200104	160-400	54				
	GGD-C 200104	160-800	54	90°DİKEY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE <i>90° Horizontal Elbow Element (Right) 3P+N+1/2 PE</i>	GGD-A 200108	500-1000	68
90°DİKEY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE <i>90° Horizontal Elbow Element (Left) 3P+N+1/2 PE</i>	GGD-A 200103	160-400	54				
	GGD-C 200103	160-800	54	90°DİKEY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE <i>90° Horizontal Elbow Element (Left) 3P+N+1/2 PE</i>	GGD-A 200107	500-1000	68
T ELEMANI (SAĞ) 3P+N+1/2 PE <i>T Element (Right) 3P+N+1/2 PE</i>	GGD-A 200111	160-400	55	T ELEMANI (SAĞ) 3P+N+1/2 PE <i>T Element (Right) 3P+N+1/2 PE</i>	GGD-A 200112	500-1000	69
	GGD-C 200111	160-800	55				
T ELEMANI (SOL) 3P+N+1/2 PE <i>T Element (Left) 3P+N+1/2 PE</i>	GGD-A 200109	160-400	55	T ELEMANI (SOL) 3P+N+1/2 PE <i>T Element (Left) 3P+N+1/2 PE</i>	GGD-A 200110	500-1000	69
	GGD-C 200109	160-800	55				
MEKANİK DİLATASYON ELEMANI 3P+N+1/2 PE <i>Mechanical Dilatation Element 3P+N+1/2 PE</i>	GGD-A 204009	160-400	56	MEKANİK DİLATASYON ELEMANI 3P+N+1/2 PE <i>Mechanical Dilatation Element 3P+N+1/2 PE</i>	GGD-A 210009	500-1000	70
	GGD-C 204009	160-800	56		GGD-A 210011	500-1000	70
YATAY DİLATASYON ELEMANI 3P+N+1/2 PE <i>Horizontal Expansion Element 3P+N+1/2 PE</i>	GGD-A 204011	160-400	56				
	GGD-C 204011	160-800	56	DİKEY DİLATASYON ELEMANI 3P+N+1/2 PE <i>Vertical Expansion Element 3P+N+1/2 PE</i>	GGD-A 210010	500-1000	71
DİKEY DİLATASYON ELEMANI 3P+N+1/2 PE <i>Vertical Expansion Element 3P+N+1/2 PE</i>	GGD-A 204010	160-400	57				
	GGD-C 204010	160-800	57	PANO ÜSTÜ MODÜLÜ (SAĞ) 3P+N+1/2 PE <i>Switchboard Feed Unit (Right) 3P+N+1/2 PE</i>	GGD-A 200031	500-1000	72
PANO ÜSTÜ MODÜLÜ (SAĞ) 3P+N+1/2 PE <i>Switchboard Feed Unit (Right) 3P+N+1/2 PE</i>	GGD-A 200030	160-400	58				
	GGD-C 200030	160-800	58	PANO ÜSTÜ MODÜLÜ (SOL) 3P+N+1/2 PE <i>Switchboard Feed Unit (Left) 3P+N+1/2 PE</i>	GGD-A 200033	500-1000	72
PANO ÜSTÜ MODÜLÜ (SOL) 3P+N+1/2 PE <i>Switchboard Feed Unit (Left) 3P+N+1/2 PE</i>	GGD-A 200032	160-400	58				
	GGD-C 200032	160-800	58	BESLEME ELEMANI (SAĞ) 3P+N+1/2 PE <i>Feed Unit (Right) 3P+N+1/2 PE</i>	GGD-A 200023	500-1000	73
BESLEME ELEMANI (SAĞ) 3P+N+1/2 PE <i>Feed Unit (Right) 3P+N+1/2 PE</i>	GGD-A 200021	160-400	59				
	GGD-C 200021	160-800	59	BESLEME ELEMANI (SOL) 3P+N+1/2 PE <i>Feed Unit (Left) 3P+N+1/2 PE</i>	GGD-A 200022	500-1000	73
BESLEME ELEMANI (SOL) 3P+N+1/2 PE <i>Feed Unit (Left) 3P+N+1/2 PE</i>	GGD-A 200020	160-400	59				
	GGD-C 200020	160-800	59	ORTADAN BESLEME ELEMANI 3P+N+1/2 PE <i>Centre Feed Unit 3P+N+1/2 PE</i>	GGD-A 200025	500-1000	74
ORTADAN BESLEME ELEMANI 3P+N+1/2 PE <i>Centre Feed Unit 3P+N+1/2 PE</i>	GGD-A 200024	160-400	60				
	GGD-C 200024	160-800	60	90° YATAY OFSET ELEMANI (SAĞ) 3P+N+1/2 PE <i>90° Horizontal Offset Element (Right) 3P+N+1/2 PE</i>	GGD-A 200128	500-1000	75
90° YATAY OFSET ELEMANI (SAĞ) 3P+N+1/2 PE <i>90° Horizontal Offset Element (Right) 3P+N+1/2 PE</i>	GGD-A 200124	160-400	61				
	GGD-C 200124	160-800	61	90° YATAY OFSET ELEMANI (SOL) 3P+N+1/2 PE <i>90° Horizontal Offset Element (Left) 3P+N+1/2 PE</i>	GGD-A 200127	500-1000	75
90° YATAY OFSET ELEMANI (SOL) 3P+N+1/2 PE <i>90° Horizontal Offset Element (Left) 3P+N+1/2 PE</i>	GGD-A 200123	160-400	61				
	GGD-C 200123	160-800	61	90° DİKEY OFSET ELEMANI (SAĞ) 3P+N+1/2 PE <i>90° Vertical Offset Element (Right) 3P+N+1/2 PE</i>	GGD-A 200130	500-1000	76
				90° DİKEY OFSET ELEMANI (SOL) 3P+N+1/2 PE <i>90° Vertical Offset Element (Left) 3P+N+1/2 PE</i>	GGD-A 200129	500-1000	76

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REDÜKSİYON ELEMANI 3P+N+1/2 PE <i>Reduction Element 3P+N+1/2 PE</i>	GGD-A RED01	400-1000	78	STANDART BOY ELEMAN (PLUG-IN) 3P+N+1/2 PE <i>Standard Length Element (Plug-in) 3P+N+1/2 PE</i>	GS-AP 050105	500	91
	GGD-A RED02	1000-400	78		GS-AP 050106	630	91
YANGIN BARIYERİ 3P+N+1/2 PE <i>Fire Barrier 3P+N+1/2 PE</i>	GGD-A 204006	160-400	78	GS-AP 050108	800	91	
	GGD-A 210006	500-1000	78	GS-AP 050110	1000	91	
	GGD-C 208006	160-800	78	GS-AP 050112	1250	91	
SONLANDIRMA ELEMANI <i>End Cap</i>	GGD 100028	160-400	79	GS-AP 050117	1600	91	
	GGD 100029	500-1000	79	GS-AP 050120	2000	91	
GGD IP 55 YAPISKAN ELEMANI <i>GGD IP 55 Sticky Plug Outlet Cover</i>	GGD 500002	160-1000	79	GS-AP 100226	2500	91	
GGD IP 55 KAPAK <i>GGD IP 55 Outlet Cover</i>	GGD 500002	160-1000	79	GS-AP 100231	3200	91	
				GS-AP 100241	4000	91	
GGD ASKI ELEMANI <i>GGD Fixing hanger</i>	GGD 010001	160-400	80	GS-AP 150350	5000	91	
	GGD 020001	500-1000	80	GS-CP 050105	500	91	
	GGD 010004	160-400	80	GS-CP 050106	630	91	
	GGD 010005	500-1000	80	GS-CP 050108	800	91	
GGD DIKEY SİSTEMLER İÇİN ASKI ELEMANI <i>GGD Hanger for vertical riser</i>	GGD 010002	160-400	81	GS-CP 050110	1000	91	
	GGD 010003	500-1000	81	GS-CP 050112	1250	91	
ÇIKIŞ KUTUSU NH TİP <i>Tap-off Box NH TypeGGD</i>	GGD 400631	25-80	82	GS-CP 050116	1600	91	
	GGD 401251	25-125	82	GS-CP 050121	2000	91	
ÇIKIŞ KUTUSU SYK TİP <i>Tap-off Box SPB Type</i>	GGD 401160	160	82	GS-CP 050125	2500	91	
	GGD 402500	250	82	GS-CP 100233	3200	91	
	GGD 404000	400	82	GS-CP 100242	4000	91	
	GGD 406300	630	82	GS-CP 100251	5000	91	
ÇIKIŞ KUTUSU MCB TİPİ <i>Tap-Off Box MCB Type</i>	GGD 400630	25-40	83	GS-CP 150360	6000	91	
	GGD 400632	25-80	83	GS-AB 0501051	500	92	
	GGD 401252	25-125	83	GS-AB 0501061	630	92	
ÇIKIŞ KUTUSU MCCB VERSİYONLU <i>Tap-off Box MCCB Version</i>	GGD 401253	25-125	83	GS-AB 0501081	800	92	
	GGD 401162	160	83	GS-AB 0501101	1000	92	
	GGD 402502	250	83	GS-AB 0501121	1250	92	
	GGD 404002	400	83	GS-AB 0501171	1600	92	
	GGD 406302	630	83	GS-AB 0501201	2000	92	
	GS-AB 050105	500	90	ARABOY ELEMANI (BOLT-ON) 3P+N+1/2 PE <i>Non Standard Element (Bolt-on) 3P+N+1/2 PE</i>	GS-AB 1002261	2500	92
	GS-AB 050106	630	90		GS-AB 1002311	3200	92
	GS-AB 050108	800	90		GS-AB 1002411	4000	92
	GS-AB 050110	1000	90		GS-AB 1503501	5000	92
	GS-AB 050112	1250	90		GS-CB 050105	500	92
	GS-AB 050117	1600	90		GS-CB 050106	630	92
	GS-AB 050120	2000	90		GS-CB 050108	800	92
	GS-AB 100226	2500	90		GS-CB 050110	1000	92
	GS-AB 100231	3200	90		GS-CB 050112	1250	92
	GS-AB 100241	4000	90		GS-CB 050116	1600	92
	GS-AB 150350	5000	90		GS-CB 050121	2000	92
	GS-CB 050105	500	90		GS-CB 050125	2500	92
	GS-CB 050106	630	90		GS-CB 100233	3200	92
	GS-CB 050108	800	90		GS-CB 100242	4000	92
	GS-CB 050110	1000	90		GS-CB 100251	5000	92
	GS-CB 050112	1250	90		GS-CB 150360	6000	92
	GS-CB 050116	1600	90		GS-AP 0501051	500	93
	GS-CB 050121	2000	90	ARABOY ELEMANI (PLUG-IN) 3P+N+1/2 PE <i>Non Standard Element (PLUG-IN) 3P+N+1/2 PE</i>	GS-AP 0501061	630	93
	GS-CB 050125	2500	90		GS-AP 0501081	800	93
	GS-CB 100233	3200	90		GS-AP 0501101	1000	93
	GS-CB 100242	4000	90		GS-AP 0501121	1250	93
	GS-CB 100251	5000	90		GS-AP 0501171	1600	93
	GS-CB 150360	6000	90		GS-AP 0501201	2000	93
					GS-AP 1002261	2500	93
					GS-AP 1002311	3200	93
					GS-AP 1002411	4000	93
					GS-AP 1503501	5000	93
					GS-CP 0501051	500	93
					GS-CP 0501061	630	93
					GS-CP 0501081	800	93
					GS-CP 0501101	1000	93
					GS-CP 0501121	1250	93







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FAZ-NÖTR YÖN DEĞİŞTİRME ELEMANI 3P+N+1/2 PE Phase-Neutral Transposition Element 3P+N+1/2 PE	GS-A PDC 05	500	109	PANO - TRAFO ÜSTÜ ELEMANI (SAĞ) 3P+N+1/2 PE Panel - Transformer Side Element (Right) 3P+N+1/2 PE	GS-C PTS 16L	1600	111		
	GS-A PDC 06	630	109		GS-C PTS 21L	2000	111		
	GS-A PDC 08	800	109		GS-C PTS 25L	2500	111		
	GS-A PDC 10	1000	109		GS-C PTS 33L	3200	111		
	GS-A PDC 12	1250	109		GS-C PTS 42L	4000	111		
	GS-A PDC 17	1600	109		GS-C PTS 51L	5000	111		
	GS-A PDC 20	2000	109		GS-C PTS 60L	6000	111		
	GS-A PDC 26	2500	109						
	GS-A PDC 31	3200	109						
	GS-A PDC 41	4000	109						
	GS-A PDC 50	5000	109						
	GS-C PDC 05	500	109						
	GS-C PDC 06	630	109						
	GS-C PDC 08	800	109						
	GS-C PDC 10	1000	109						
	GS-C PDC 12	1250	109						
	GS-C PDC 16	1600	109						
	GS-C PDC 21	2000	109						
	GS-C PDC 25	2500	109						
	GS-C PDC 33	3200	109						
	GS-C PDC 42	4000	109						
	GS-C PDC 51	5000	109						
	GS-C PDC 60	6000	109						
	KURU TİP TRAFO ÜSTÜ ELEMANI (SAĞ) 3P+N+1/2 PE Cast Resin Transformer Element (Right) 3P+N+1/2 PE	GS-A PTS 05R	500		110		GS-A TS 05R	500	112
		GS-A PTS 06R	630		110		GS-A TS 06R	630	112
		GS-A PTS 08R	800		110		GS-A TS 08R	800	112
GS-A PTS 10R		1000	110		GS-A TS 10R	1000	112		
GS-A PTS 12R		1250	110		GS-A TS 12R	1250	112		
GS-A PTS 17R		1600	110		GS-A TS 17R	1600	112		
GS-A PTS 20R		2000	110		GS-A TS 20R	2000	112		
GS-A PTS 26R		2500	110		GS-A TS 26R	2500	112		
GS-A PTS 31R		3200	110		GS-A TS 31R	3200	112		
GS-A PTS 41R		4000	110		GS-A TS 41R	4000	112		
GS-A PTS 50R		5000	110		GS-A TS 50R	5000	112		
GS-C PTS 05R		500	110		GS-C TS 05R	500	112		
GS-C PTS 06R		630	110		GS-C TS 06R	630	112		
GS-C PTS 08R		800	110		GS-C TS 08R	800	112		
GS-C PTS 10R		1000	110		GS-C TS 10R	1000	112		
GS-C PTS 12R		1250	110		GS-C TS 12R	1250	112		
GS-C PTS 16R		1600	110		GS-C TS 16R	1600	112		
GS-C PTS 21R		2000	110		GS-C TS 21R	2000	112		
GS-C PTS 25R		2500	110		GS-C TS 25R	2500	112		
GS-C PTS 33R		3200	110		GS-C TS 33R	3200	112		
GS-C PTS 42R		4000	110		GS-C TS 42R	4000	112		
GS-C PTS 51R		5000	110		GS-C TS 51R	5000	112		
GS-C PTS 60R		6000	110		GS-C TS 60R	6000	112		
KURU TİP TRAFO ÜSTÜ ELEMANI (SOL) 3P+N+1/2 PE Cast Resin Transformer Element (Left) 3P+N+1/2 PE		GS-A PTS 05L	500	111		GS-A TS 05L	500	113	
		GS-A PTS 06L	630	111		GS-A TS 06L	630	113	
		GS-A PTS 08L	800	111		GS-A TS 08L	800	113	
	GS-A PTS 10L	1000	111		GS-A TS 10L	1000	113		
	GS-A PTS 12L	1250	111		GS-A TS 12L	1250	113		
	GS-A PTS 17L	1600	111		GS-A TS 17L	1600	113		
	GS-A PTS 20L	2000	111		GS-A TS 20L	2000	113		
	GS-A PTS 26L	2500	111		GS-A TS 26L	2500	113		
	GS-A PTS 31L	3200	111		GS-A TS 31L	3200	113		
	GS-A PTS 41L	4000	111		GS-A TS 41L	4000	113		
	GS-A PTS 50L	5000	111		GS-A TS 50L	5000	113		
	GS-C PTS 05L	500	111		GS-C TS 05L	500	113		
	GS-C PTS 06L	630	111		GS-C TS 06L	630	113		
	GS-C PTS 08L	800	111		GS-C TS 08L	800	113		
	GS-C PTS 10L	1000	111		GS-C TS 10L	1000	113		
	GS-C PTS 12L	1250	111		GS-C TS 12L	1250	113		
	GS-C PTS 16L	1600	111		GS-C TS 16L	1600	113		
	GS-C PTS 21L	2000	111		GS-C TS 21L	2000	113		
	GS-C PTS 25L	2500	111		GS-C TS 25L	2500	113		
	GS-C PTS 33L	3200	111		GS-C TS 33L	3200	113		
	GS-C PTS 42L	4000	111		GS-C TS 42L	4000	113		
	GS-C PTS 51L	5000	111		GS-C TS 51L	5000	113		
	GS-C PTS 60L	6000	111		GS-C TS 60L	6000	113		
	PANO - TRAFO ÜSTÜ 90° DİKEY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE Panel - Transformer Side 90° Vertical Elbow Element (Right) 3P+N+1/2 PE	GS-A PVE 05RR	500	117		GS-A PVE 05RR	500	117	
		GS-A PVE 06RR	630	117		GS-A PVE 06RR	630	117	
		GS-A PVE 08RR	800	117		GS-A PVE 08RR	800	117	
GS-A PVE 10RR		1000	117		GS-A PVE 10RR	1000	117		
GS-A PVE 12RR		1250	117		GS-A PVE 12RR	1250	117		
GS-A PVE 17RR		1600	117		GS-A PVE 17RR	1600	117		
GS-A PVE 20RR		2000	117		GS-A PVE 20RR	2000	117		
GS-A PVE 26RR		2500	117		GS-A PVE 26RR	2500	117		

Sipariş Kodu Order code	Amper A	Sayfa Page		Sipariş Kodu Order code	Amper A	Sayfa Page
GS-A PVE 31RR	3200	117	PANO - TRAFÖ ÜSTÜ 90° DİKEY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE Panel - Transformer Side 90° Vertical Elbow Element (Left) 3P+N+1/2 PE	GS-A PVE 05LL	500	120
GS-A PVE 41RR	4000	117		GS-A PVE 06LL	630	120
GS-A PVE 50RR	5000	117		GS-A PVE 08LL	800	120
GS-C PVE 05RR	500	117		GS-A PVE 10LL	1000	120
GS-C PVE 06RR	630	117		GS-A PVE 12LL	1250	120
GS-C PVE 08RR	800	117		GS-A PVE 17LL	1600	120
GS-C PVE 10RR	1000	117		GS-A PVE 20LL	2000	120
GS-C PVE 12RR	1250	117		GS-A PVE 26LL	2500	120
GS-C PVE 16RR	1600	117		GS-A PVE 31LL	3200	120
GS-C PVE 21RR	2000	117		GS-A PVE 41LL	4000	120
GS-C PVE 25RR	2500	117		GS-A PVE 50LL	5000	120
GS-C PVE 33RR	3200	117		GS-C PVE 05LL	500	120
GS-C PVE 42RR	4000	117		GS-C PVE 06LL	630	120
GS-C PVE 51RR	5000	117		GS-C PVE 08LL	800	120
GS-C PVE 60RR	6000	117		GS-C PVE 10LL	1000	120
				GS-C PVE 12LL	1250	120
				GS-C PVE 16LL	1600	120
			GS-C PVE 21LL	2000	120	
			GS-C PVE 25LL	2500	120	
			GS-C PVE 33LL	3200	120	
			GS-C PVE 42LL	4000	120	
			GS-C PVE 51LL	5000	120	
			GS-C PVE 60LL	6000	120	
			PANO - TRAFÖ ÜSTÜ 90° YATAY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE Panel - Transformer Side 90° Horizontal Elbow Element (Right) 3P+N+1/2 PE	GS-A PHE 05RR	500	121
				GS-A PHE 06RR	630	121
				GS-A PHE 08RR	800	121
				GS-A PHE 10RR	1000	121
				GS-A PHE 12RR	1250	121
				GS-A PHE 17RR	1600	121
				GS-A PHE 20RR	2000	121
				GS-A PHE 26RR	2500	121
				GS-A PHE 31RR	3200	121
				GS-A PHE 41RR	4000	121
				GS-A PHE 50RR	5000	121
				GS-C PHE 05RR	500	121
				GS-C PHE 06RR	630	121
				GS-C PHE 08RR	800	121
				GS-C PHE 10RR	1000	121
				GS-C PHE 12RR	1250	121
				GS-C PHE 16RR	1600	121
			GS-C PHE 21RR	2000	121	
			GS-C PHE 25RR	2500	121	
			GS-C PHE 33RR	3200	121	
			GS-C PHE 42RR	4000	121	
			GS-C PHE 51RR	5000	121	
			GS-C PHE 60RR	6000	121	
			PANO - TRAFÖ ÜSTÜ 90° YATAY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE Panel - Transformer Side 90° Horizontal Elbow Element (Left) 3P+N+1/2 PE	GS-A PHE 05RL	500	122
				GS-A PHE 06RL	630	122
				GS-A PHE 08RL	800	122
				GS-A PHE 10RL	1000	122
				GS-A PHE 12RL	1250	122
				GS-A PHE 17RL	1600	122
				GS-A PHE 20RL	2000	122
				GS-A PHE 26RL	2500	122
				GS-A PHE 31RL	3200	122
				GS-A PHE 41RL	4000	122
				GS-A PHE 50RL	5000	122
				GS-C PHE 05RL	500	122
				GS-C PHE 06RL	630	122
				GS-C PHE 08RL	800	122
				GS-C PHE 10RL	1000	122
				GS-C PHE 12RL	1250	122



	Sipariş Kodu Order code	Amper A	Sayfa Page		Sipariş Kodu Order code رمز الطلب	Amper A	Sayfa Page	
ESNEK BARA <i>Flexible Bars</i>	GS-A FLX 05	500	128		GS-A SSH 50	5000	131	
	GS-A FLX 06	630	128		GS-C SSH 05	500	131	
	GS-A FLX 08	800	128		GS-C SSH 06	630	131	
	GS-A FLX 10	1000	128		GS-C SSH 08	800	131	
	GS-A FLX 12	1250	128		GS-C SSH 10	1000	131	
	GS-A FLX 17	1600	128		GS-C SSH 12	1250	131	
	GS-A FLX 20	2000	128		GS-C SSH 16	1600	131	
	GS-A FLX 26	2500	128		GS-C SSH 21	2000	131	
	GS-A FLX 31	3200	128		GS-C SSH 25	2500	131	
	GS-A FLX 41	4000	128		GS-C SSH 33	3200	131	
	GS-A FLX 50	5000	128		GS-C SSH 42	4000	131	
	GS-C FLX 05	500	128		GS-C SSH 51	5000	131	
	GS-C FLX 06	630	128		GS-C SSH 60	6000	131	
	GS-C FLX 08	800	128		GS-A SSHV 05	500	131	
	GS-C FLX 10	1000	128		GS-A SSHV 06	630	131	
	GS-C FLX 12	1250	128		GS-A SSHV 08	800	131	
	GS-C FLX 16	1600	128		GS-A SSHV 10	1000	131	
	GS-C FLX 21	2000	128		GS-A SSHV 12	1250	131	
	GS-C FLX 25	2500	128		GS-A SSHV 17	1600	131	
	GS-C FLX 33	3200	128		GS-A SSHV 20	2000	131	
	GS-C FLX 42	4000	128		GS-A SSHV 26	2500	131	
	GS-C FLX 51	5000	128		GS-A SSHV 31	3200	131	
	GS-C FLX 60	6000	128		GS-A SSHV 41	4000	131	
	PLUG-IN ÇIKIŞ KUTUSU <i>Plug-in Tap-off Box</i>	P-SYK160	160		129	GS-A SSHV 50	5000	131
		P-SYK250	250		129	GS-C SSHV 05	500	131
		P-SYK400	400		129	GS-C SSHV 06	630	131
		P-SYK630	630		129	GS-C SSHV 08	800	131
		P-MCCB160	160		129	GS-C SSHV 10	1000	131
		P-MCCB250	250		129	GS-C SSHV 12	1250	131
		P-MCCB400	400		129	GS-C SSHV 16	1600	131
P-MCCB630		630	129	GS-C SSHV 21	2000	131		
BOLT-ON ÇIKIŞ KUTUSU <i>Bolt-on Tap-off Box</i>		BX-SYK160	160	130	GS-C SSHV 25	2500	131	
		BX-SYK250	250	130	GS-C SSHV 33	3200	131	
		BX-SYK400	400	130	GS-C SSHV 42	4000	131	
		BX-SYK630	630	130	GS-C SSHV 51	5000	131	
	BX-SYK160	160	130	GS-C SSHV 60	6000	131		
	BX-SYK250	250	130	BUSBAR TESPİT ELEMANI <i>Fixing Hanger</i>	GS TK-C		132	
	BX-SYK400	400	130		GS TK-K		132	
	BX-SYK630	630	130		DİKEY ASKI TAKIMI <i>Vertical Supporting Hangers</i>	GS-A SSV 05	500	132
	BX-SYK160	160	130			GS-A SSV 06	630	132
	BX-SYK250	250	130			GS-A SSV 08	800	132
	BX-SYK400	400	130			GS-A SSV 10	1000	132
	BX-SYK630	630	130			GS-A SSV 12	1250	132
BX-MCCB160	160	130	GS-A SSV 17			1600	132	
BX-MCCB250	250	130	GS-A SSV 20			2000	132	
BX-MCCB400	400	130	GS-A SSV 26			2500	132	
BX-MCCB630	630	130	GS-A SSV 31			3200	132	
BX-MCCB800	800	130	GS-A SSV 41			4000	132	
BX-MCCB1000	1000	130	GS-A SSV 50	5000		132		
YATAY ASKI TAKIMI <i>Horizontal Supporting Hangers</i>	GS-A SSH 05	500	131	GS-C SSV 05		500	132	
	GS-A SSH 06	630	131	GS-C SSV 06	630	132		
	GS-A SSH 08	800	131	GS-C SSV 08	800	132		
	GS-A SSH 10	1000	131	GS-C SSV 10	1000	132		
	GS-A SSH 12	1250	131	GS-C SSV 12	1250	132		
	GS-A SSH 17	1600	131	GS-C SSV 16	1600	132		
	GS-A SSH 20	2000	131	GS-C SSV 21	2000	132		
	GS-A SSH 26	2500	131	GS-C SSV 25	2500	132		
	GS-A SSH 31	3200	131	GS-C SSV 33	3200	132		
	GS-A SSH 41	4000	131	GS-C SSV 42	4000	132		
				GS-C SSV 51	5000	132		
				GS-C SSV 60	6000	132		

Sipariş Kodu Order code	Amper A	Sayfa Page
GS-A SSV 05-1	500	133
GS-A SSV 06-1	630	133
GS-A SSV 08-1	800	133
GS-A SSV 10-1	1000	133
GS-A SSV 12-1	1250	133
GS-A SSV 17-1	1600	133
GS-A SSV 20-1	2000	133
GS-A SSV 26-1	2500	133
GS-A SSV 31-1	3200	133
GS-A SSV 41-1	4000	133
GS-A SSV 50-1	5000	133
GS-C SSV 05-1	500	133
GS-C SSV 06-1	630	133
GS-C SSV 08-1	800	133
GS-C SSV 10-1	1000	133
GS-C SSV 12-1	1250	133
GS-C SSV 16-1	1600	133
GS-C SSV 21-1	2000	133
GS-C SSV 25-1	2500	133
GS-C SSV 33-1	3200	133
GS-C SSV 42-1	4000	133
GS-C SSV 51-1	5000	133
GS-C SSV 60-1	6000	133

## GR

STANDART BOY ELEMAN (BOLT-ON)  
Standard Length Element (Bolt-on)

GR-A3 030105	500	143
GR-A3 030106	630	143
GR-A3 030108	800	143
GR-A3 030110	1000	143
GR-A3 030112	1250	143
GR-A3 030116	1600	143
GR-A3 030120	2000	143
GR-A3 030125	2500	143
GR-C3 030105	500	143
GR-C3 030106	630	143
GR-C3 030108	800	143
GR-C3 030110	1000	143
GR-C3 030112	1250	143
GR-C3 030116	1600	143
GR-C3 030120	2000	143
GR-C3 030125	2500	143
GR-C3 030132	3200	143
GR-A5 050105	500	143
GR-A5 050106	630	143
GR-A5 050108	800	143
GR-A5 050110	1000	143
GR-A5 050112	1250	143
GR-A5 050116	1600	143
GR-A5 050120	2000	143
GR-A5 030125	2500	143
GR-C5 050105	500	143
GR-C5 050106	630	143
GR-C5 050108	800	143
GR-C5 050110	1000	143
GR-C5 050112	1250	143
GR-C5 050116	1600	143
GR-C5 050120	2000	143
GR-C5 100125	2500	143
GR-C5 030132	3200	143

90° DİKEY DÖNÜŞ ELEMANI  
90° Vertical Elbow Element

GR-A3 VE 05	500	145
GR-A3 VE 06	630	145
GR-A3 VE 08	800	145
GR-A3 VE 10	1000	145
GR-A3 VE 12	1250	145
GR-A3 VE 16	1600	145
GR-A3 VE 20	2000	145
GR-A3 VE 25	2500	145
GR-C3 VE 05	500	145
GR-C3 VE 06	630	145
GR-C3 VE 08	800	145
GR-C3 VE 10	1000	145
GR-C3 VE 12	1250	145
GR-C3 VE 16	1600	145
GR-C3 VE 20	2000	145
GR-C3 VE 25	2500	145
GR-C3 VE 32	3200	145
GR-A5 VE 05	500	145
GR-A5 VE 06	630	145
GR-A5 VE 08	800	145
GR-A5 VE 10	1000	145
GR-A5 VE 12	1250	145
GR-A5 VE 16	1600	145
GR-A5 VE 20	2000	145
GR-A5 VE 25	2500	145
GR-C5 VE 05	500	145
GR-C5 VE 06	630	145
GR-C5 VE 08	800	145
GR-C5 VE 10	1000	145
GR-C5 VE 12	1250	145
GR-C5 VE 16	1600	145
GR-C5 VE 20	2000	145
GR-C5 VE 25	2500	145
GR-C5 VE 32	3200	145

PANO - TRAFO ÜSTÜ ELEMANI  
Panel - Transformer Side Element

GR-A3 TS 05	500	144
GR-A3 TS 06	630	144
GR-A3 TS 08	800	144
GR-A3 TS 10	1000	144

Sipariş Kodu Order code	Amper A	Sayfa Page
GR-A3 TS 12	1250	144
GR-A3 TS 16	1600	144
GR-A3 TS 20	2000	144
GR-A3 TS 25	2500	144
GR-C3 TS 05	500	144
GR-C3 TS 06	630	144
GR-C3 TS 08	800	144
GR-C3 TS 10	1000	144
GR-C3 TS 12	1250	144
GR-C3 TS 16	1600	144
GR-C3 TS 20	2000	144
GR-C3 TS 25	2500	144
GR-C3 TS 32	3200	144
GR-A5 TS 05	500	144
GR-A5 TS 06	630	144
GR-A5 TS 08	800	144
GR-A5 TS 10	1000	144
GR-A5 TS 12	1250	144
GR-A5 TS 16	1600	144
GR-A5 TS 20	2000	144
GR-A5 TS 25	2500	144
GR-C5 TS 05	500	144
GR-C5 TS 06	630	144
GR-C5 TS 08	800	144
GR-C5 TS 10	1000	144
GR-C5 TS 12	1250	144
GR-C5 TS 16	1600	144
GR-C5 TS 20	2000	144
GR-C5 TS 25	2500	144
GR-C5 TS 32	3200	144
GR-A3 VE 05	500	145
GR-A3 VE 06	630	145
GR-A3 VE 08	800	145
GR-A3 VE 10	1000	145
GR-A3 VE 12	1250	145
GR-A3 VE 16	1600	145
GR-A3 VE 20	2000	145
GR-A3 VE 25	2500	145
GR-C3 VE 05	500	145
GR-C3 VE 06	630	145
GR-C3 VE 08	800	145
GR-C3 VE 10	1000	145
GR-C3 VE 12	1250	145
GR-C3 VE 16	1600	145
GR-C3 VE 20	2000	145
GR-C3 VE 25	2500	145
GR-C3 VE 32	3200	145
GR-A5 VE 05	500	145
GR-A5 VE 06	630	145
GR-A5 VE 08	800	145
GR-A5 VE 10	1000	145
GR-A5 VE 12	1250	145
GR-A5 VE 16	1600	145
GR-A5 VE 20	2000	145
GR-A5 VE 25	2500	145
GR-C5 VE 05	500	145
GR-C5 VE 06	630	145
GR-C5 VE 08	800	145
GR-C5 VE 10	1000	145
GR-C5 VE 12	1250	145
GR-C5 VE 16	1600	145
GR-C5 VE 20	2000	145
GR-C5 VE 25	2500	145
GR-C5 VE 32	3200	145

### 90° YATAY DÖNÜŞ ELEMANI 90° Horizontal Elbow Element

Sipariş Kodu Order code	Amper A	Sayfa Page
GR-A3 HE 05	500	146
GR-A3 HE 06	630	146
GR-A3 HE 08	800	146
GR-A3 HE 10	1000	146
GR-A3 HE 12	1250	146
GR-A3 HE 16	1600	146
GR-A3 HE 20	2000	146
GR-A3 HE 25	2500	146
GR-C3 HE 05	500	146
GR-C3 HE 06	630	146
GR-C3 HE 08	800	146
GR-C3 HE 10	1000	146
GR-C3 HE 12	1250	146
GR-C3 HE 16	1600	146
GR-C3 HE 20	2000	146
GR-C3 HE 25	2500	146
GR-C3 HE 32	3200	146
GR-A5 HE 05	500	146
GR-A5 HE 06	630	146
GR-A5 HE 08	800	146
GR-A5 HE 10	1000	146
GR-A5 HE 12	1250	146
GR-A5 HE 16	1600	146
GR-A5 HE 20	2000	146
GR-A5 HE 25	2500	146
GR-C5 HE 05	500	146
GR-C5 HE 06	630	146
GR-C5 HE 08	800	146
GR-C5 HE 10	1000	146
GR-C5 HE 12	1250	146
GR-C5 HE 16	1600	146
GR-C5 HE 20	2000	146
GR-C5 HE 25	2500	146
GR-C5 HE 32	3200	146

## İSTANBUL-1

## IPOS STEEL DIŐ TİCARET

Kocaeli KOBİ Organize  
Sanayi Bölgesi Köseler Mah.  
3.Cad. No:52  
**Dilovası / KOCAELİ**  
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info@ipos-steel.com

## İSTANBUL-2

AMAŐ ELEKTRİK SANAYİ  
ve DIŐ TİCARET LİMİTED  
ŐİRKETİ

Perpa Ticaret Merkezi  
B Blok Kat:2 No:18  
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## ANKARA-1

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## ANKARA-2

KVK ELEKTRİK  
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Timko İŐ Merkezi Batı  
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No:19 C Blok No: 6  
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bilgi@kvkenerji.com

## İZMİR-1

SMYRNA ENERJİ  
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ve TİC. A.Ő.

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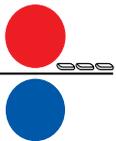


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