



**GERSAN**

ELEKTRİK TİC. ve SAN. A.Ş.

2017



# BUSBAR SİSTEMLERİ

*Busbar Trunking Systems*

انظمة البسبار





Aspendos - Antalya/Turkey



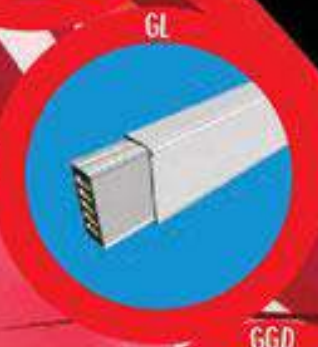


**GERSAN**  
ELEKTRİK TİC. VE SAN. A.Ş.

25-40A



40-100A



160-400A



500-1000A



500-6000A



## BUSBAR SİSTEMLERİ

*Busbar Trunking Systems* أنظمة البسبار



ISO 9001-14001-18001

**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 / ISTANBUL-TURKEY

**declares that the product**

**Product Name** : Busbar Trunking System  
**Model Number(s)** : GNL, GL, GGD, GS, GR  
**Features** : 690V/1000V/36kV ; 25A/6000A ; 50/60 Hz ; Class F/H ; IP 43/55/65/68

**conforms with the following standards;**

	<u>Applied Standards :</u>	<u>Type Tests :</u>
<b>Safety</b>	: IEC/EN 61439-6 IEC/EN 62271 IEC/EN 60529	Temperature Rise Limits Electrical Characteristics Dielectric Properties Short-Circuit Strength
<b>EMC</b>	: IEC/EN 61439-6 Annex K	Effectiveness of The Protective Circuit Clearance and Creepage Distances Mechanical Operation Degree of Protection Structural Strength Crushing Resistance Resistance to Abnormal Heat Resistance to Flame Propagation Fire Barrier in Building Passing EMC

**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**

ISTANBUL 01.01.15

**GERSAN ELEKTRİK A.Ş.**

Yüksel KARDEŞ

## BUSBAR KANAL SİSTEMLERİ



Busbar Trunking Systems  
اتظمة الباسبار

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-İSTANBUL, Çaycuma-ZONGULDAK has started to apply these standards to the production also in factory.

تحرص شركة جرسان على تطبيق معايير الجودة العالمية في إنتاج الباسبار في المقام الأول. وقد تم البدء في تطبيق هذه المعايير في كل من مصنعي توزلا - استانبول وتشاي جمعة - زونجولداك.



Busbarlarda 2 yıl malzeme, 10 yıl yedek parça garantisi vardır. Busbars are guaranteed for 2 years material and 10 years spare part.

اتظمة باسبار مضمونة لمدة عام في الأداء ولمدة ثلاثة أعوام في المواد وعشرة سنوات لقطع الغيار

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.

GERSAN Busbar sistemi aşağıdaki tip testlerine<sup>(1)</sup> sahiptir.

- \* 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 Direnci
- \* Yangın Bariyeri
- \* GERSAN Busbar Sistemleri Faydalı Model Patenti ve Tasarım Tescilli ile koruma altındadır.

<sup>(1)</sup> IEC/EN 61439-6'e göre

IEC/EN 60439-2, 61439-6, IEC/EN 60529, IEC 60331-21, DIN 4102-9/12

- \* الخصائص الكهربائية
- \* متانة الهيكل
- \* مقاومة العزل
- \* انتشار الحريق
- \* حجب الحريق
- \* اتظمة باسبار جرسان محمية بموجب براءات اختراع للتمودج ولتسجيل التصميم

(1) وفقا للمعيار IEC/EN 61439-6

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

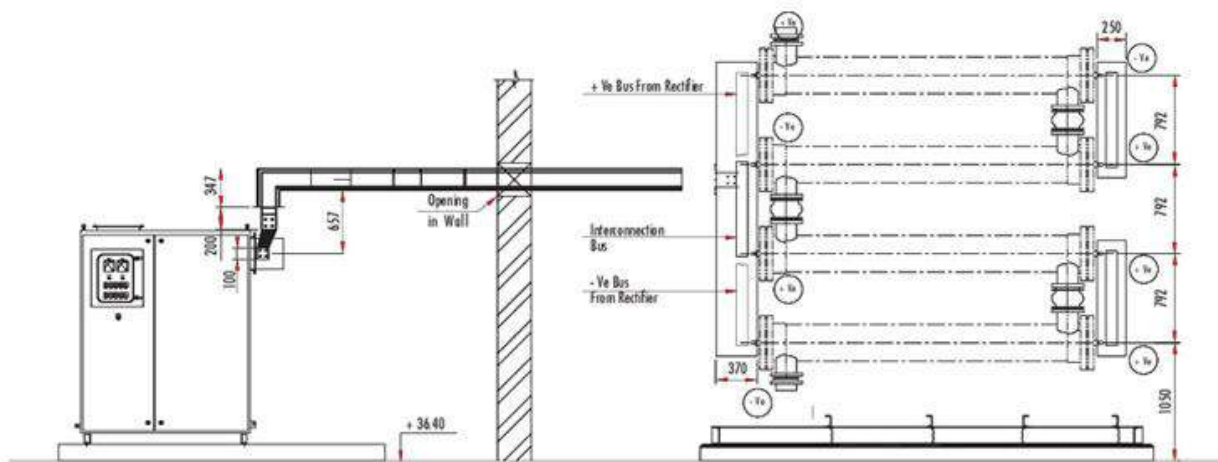
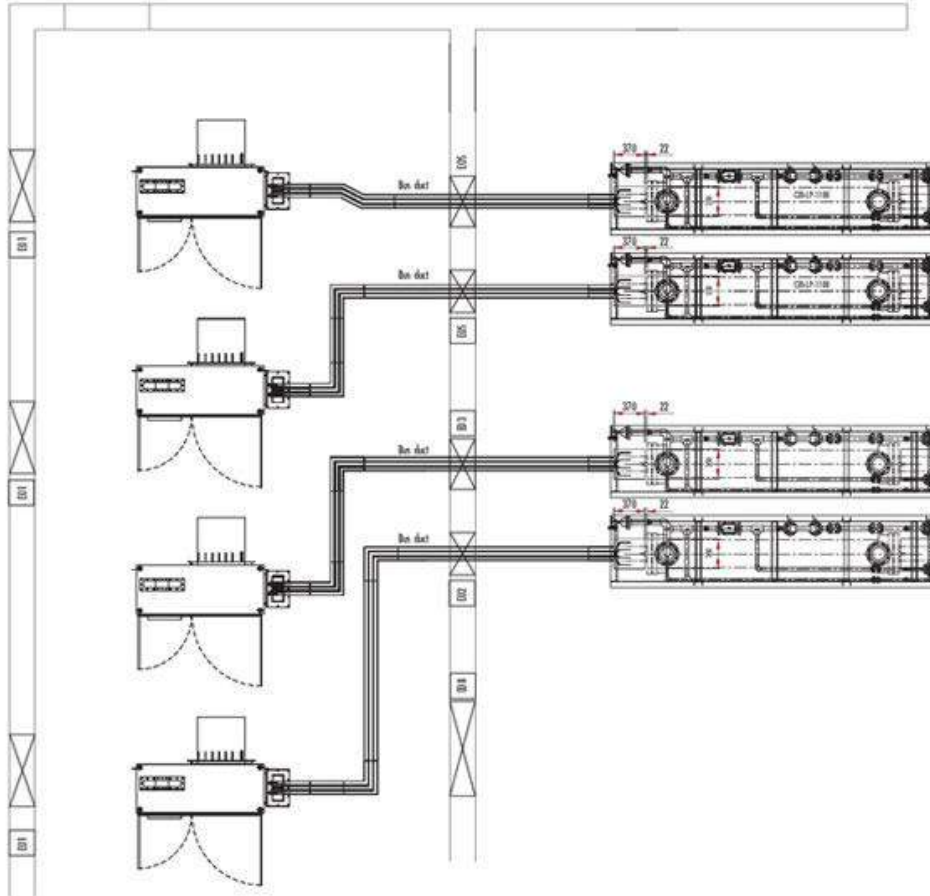
GERSAN Busbar systems have type tests<sup>(1)</sup> listed below.

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

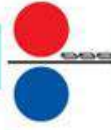
<sup>(1)</sup> According to IEC/EN 61439-6

اتظمة باسبار تتوافق مع المعايير التالية:

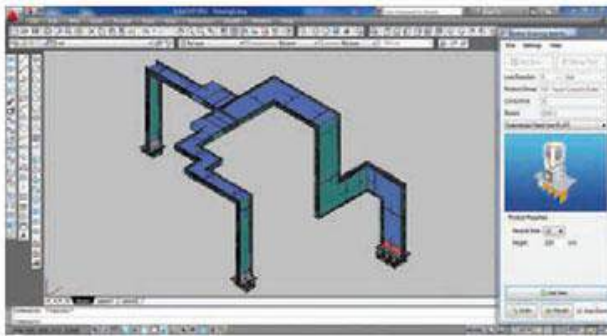
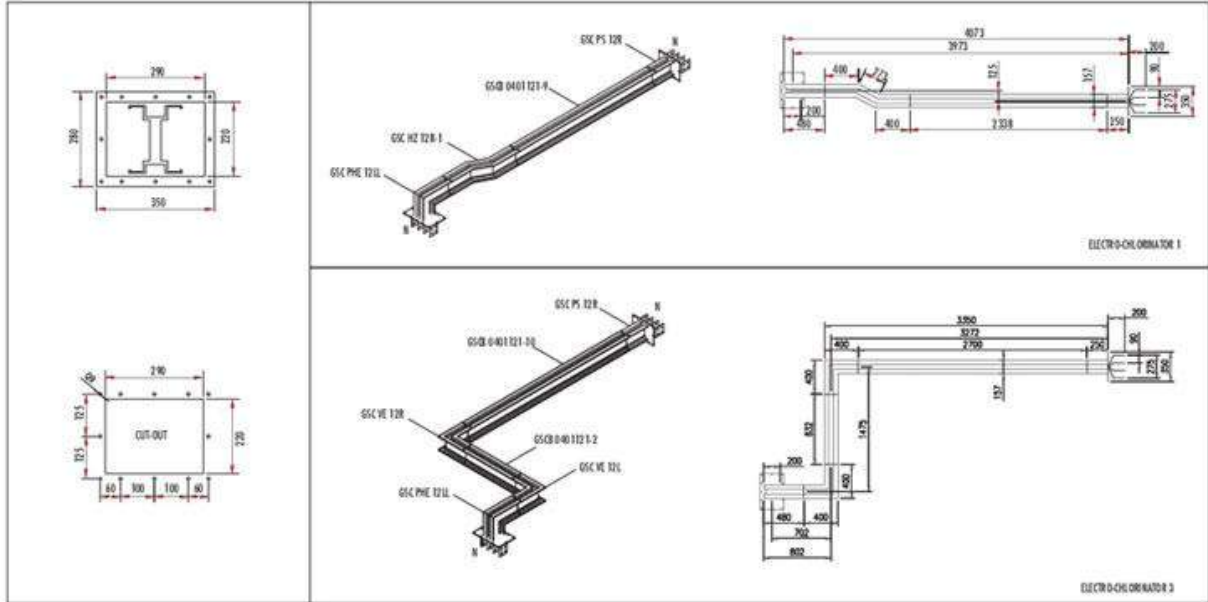
- \* قائمة اختبارات اتظمة باسبار جرسان
- \* حدود ارتفاع درجة الحرارة
- \* خصائص العزل الكهربائي
- \* قوة صمود دائرة المنصهر
- \* فعالية المنصهر في الحماية
- \* الفراغات والمسافات
- \* التشغيل الميكانيكي



# BUSBAR KANAL SİSTEMLERİ



Busbar Trunking Systems  
انظمة البسبار



## GERSAN BUSBAR PROGRAM



NO	QTY	DESCRIPTION	UNIT
1	1	1000mm x 250mm x 100mm Busbar Channel	1
2	1	1000mm x 250mm x 100mm Busbar Channel	1
3	1	1000mm x 250mm x 100mm Busbar Channel	1
4	1	1000mm x 250mm x 100mm Busbar Channel	1
5	1	1000mm x 250mm x 100mm Busbar Channel	1
6	1	1000mm x 250mm x 100mm Busbar Channel	1
7	1	1000mm x 250mm x 100mm Busbar Channel	1
8	1	1000mm x 250mm x 100mm Busbar Channel	1
9	1	1000mm x 250mm x 100mm Busbar Channel	1
10	1	1000mm x 250mm x 100mm Busbar Channel	1
11	1	1000mm x 250mm x 100mm Busbar Channel	1
12	1	1000mm x 250mm x 100mm Busbar Channel	1
13	1	1000mm x 250mm x 100mm Busbar Channel	1
14	1	1000mm x 250mm x 100mm Busbar Channel	1
15	1	1000mm x 250mm x 100mm Busbar Channel	1
16	1	1000mm x 250mm x 100mm Busbar Channel	1
17	1	1000mm x 250mm x 100mm Busbar Channel	1
18	1	1000mm x 250mm x 100mm Busbar Channel	1
19	1	1000mm x 250mm x 100mm Busbar Channel	1
20	1	1000mm x 250mm x 100mm Busbar Channel	1
21	1	1000mm x 250mm x 100mm Busbar Channel	1
22	1	1000mm x 250mm x 100mm Busbar Channel	1
23	1	1000mm x 250mm x 100mm Busbar Channel	1
24	1	1000mm x 250mm x 100mm Busbar Channel	1
25	1	1000mm x 250mm x 100mm Busbar Channel	1
26	1	1000mm x 250mm x 100mm Busbar Channel	1
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41	1	1000mm x 250mm x 100mm Busbar Channel	1
42	1	1000mm x 250mm x 100mm Busbar Channel	1
43	1	1000mm x 250mm x 100mm Busbar Channel	1
44	1	1000mm x 250mm x 100mm Busbar Channel	1
45	1	1000mm x 250mm x 100mm Busbar Channel	1
46	1	1000mm x 250mm x 100mm Busbar Channel	1
47	1	1000mm x 250mm x 100mm Busbar Channel	1
48	1	1000mm x 250mm x 100mm Busbar Channel	1
49	1	1000mm x 250mm x 100mm Busbar Channel	1
50	1	1000mm x 250mm x 100mm Busbar Channel	1

## BUSBAR KANAL SİSTEMLERİ



Busbar Trunking Systems  
انظمة البسبار

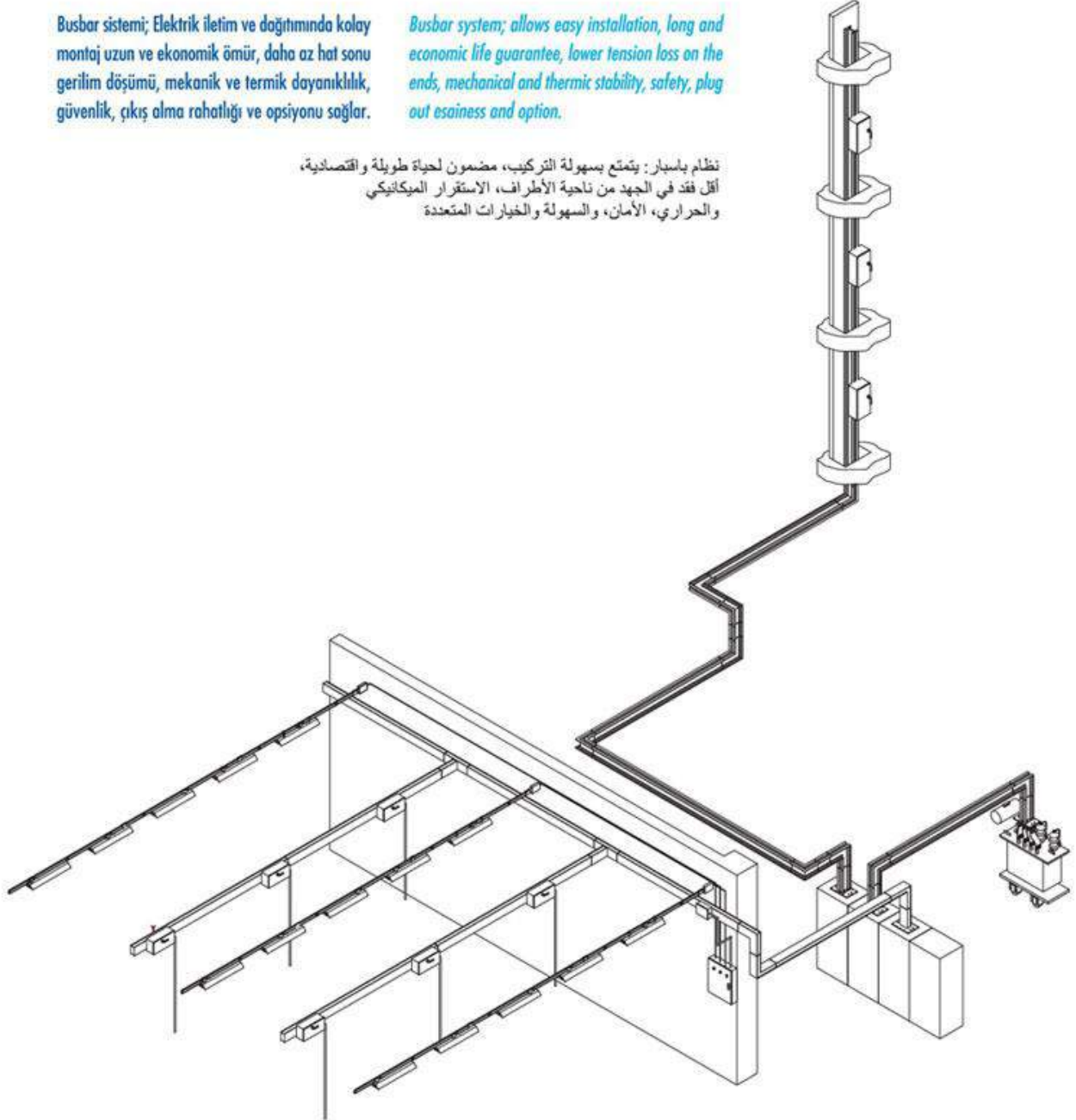
### BİR BİNADA YATAY VE DİKEY DAĞITIM Horizontal And Vertical Distribution In A Building.

التوزيع الأفقي والرأسي في المبنى

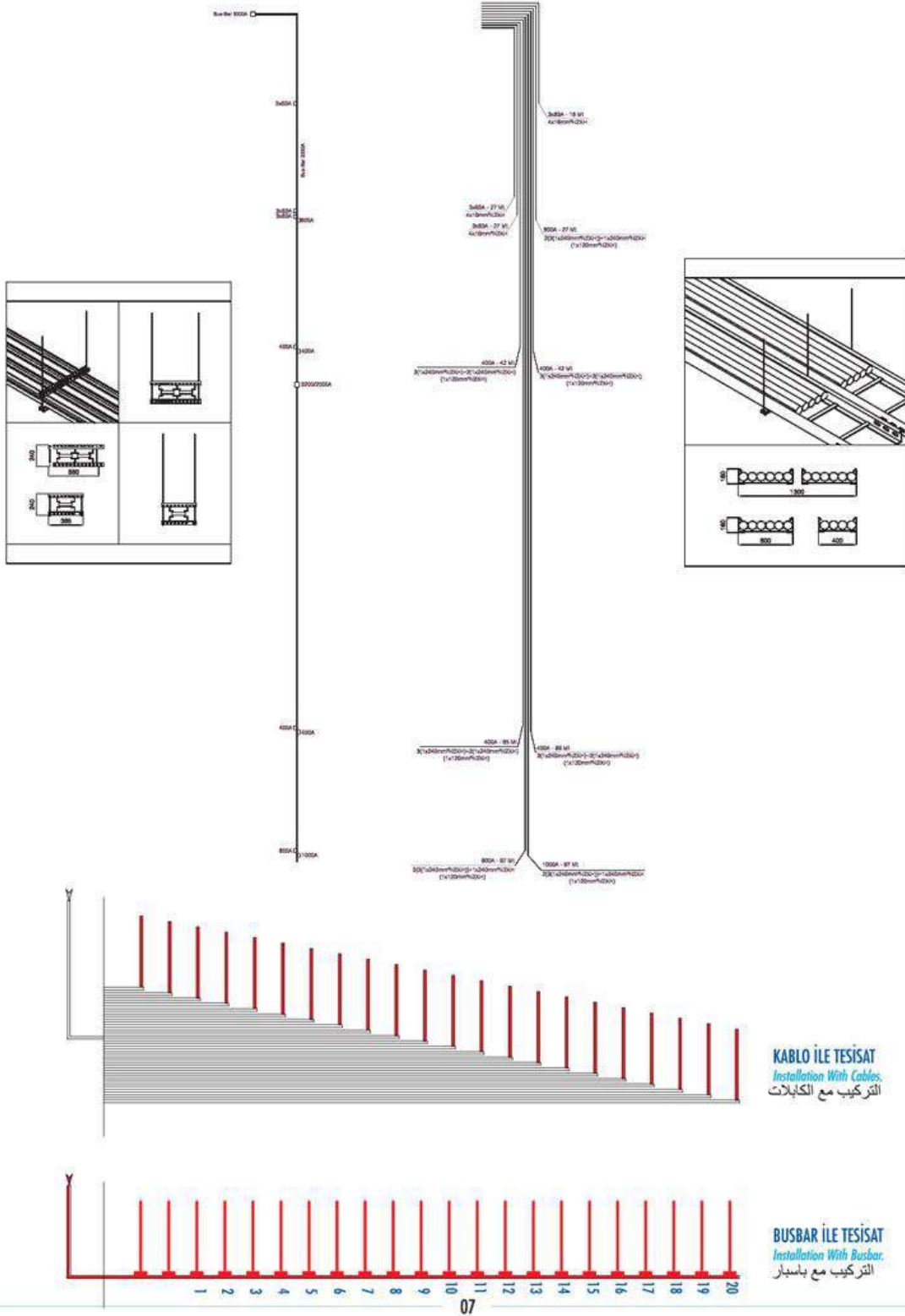
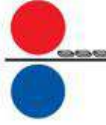
Busbar sistemi; Elektrik iletim ve dağıtımında kolay montaj uzun ve ekonomik ömür, daha az hat sonu gerilim düşümü, mekanik ve termik dayanıklılık, güvenlik, çıkış alma rahatlığı ve opsiyonu sağlar.

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

نظام باسبار: يتمتع بسهولة التركيب، مضمون لحياة طويلة واقتصادية، أقل فقد في الجهد من ناحية الأطراف، الاستقرار الميكانيكي والحراري، الأمان، والسهولة والخيارات المتعددة





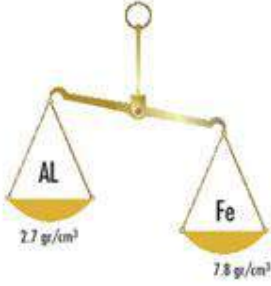


## BUSBAR KANAL SİSTEMLERİ



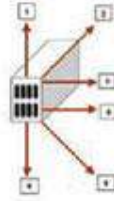
Busbar Trunking Systems  
انظمة البسبار

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.*  
يتم إنتاج بسبار مطلي في حالة الطلب تم تصميم الغلاف الخارجي للبسبار من الالمنيوم لتجنب حدوث الصدأ والتآكل



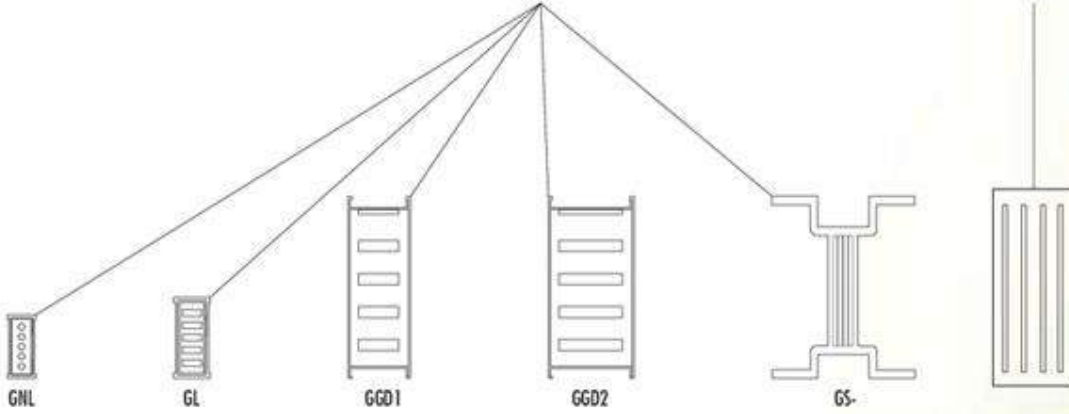
EMC (μT)

Distance [mm]	Direction					
	1	2	3	4	5	6
0	530	125	300	315	200	675
100	05	80	110	110	115	160
500	30	15	20	30	40	40
800	0	0	0	0	0	0
1000	0	0	0	0	0	0



AL (ALOCAL-6063)  
IK08

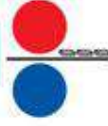
CAST RESIN  
IK10



(V0)



## BUSBAR KANAL SİSTEMLERİ

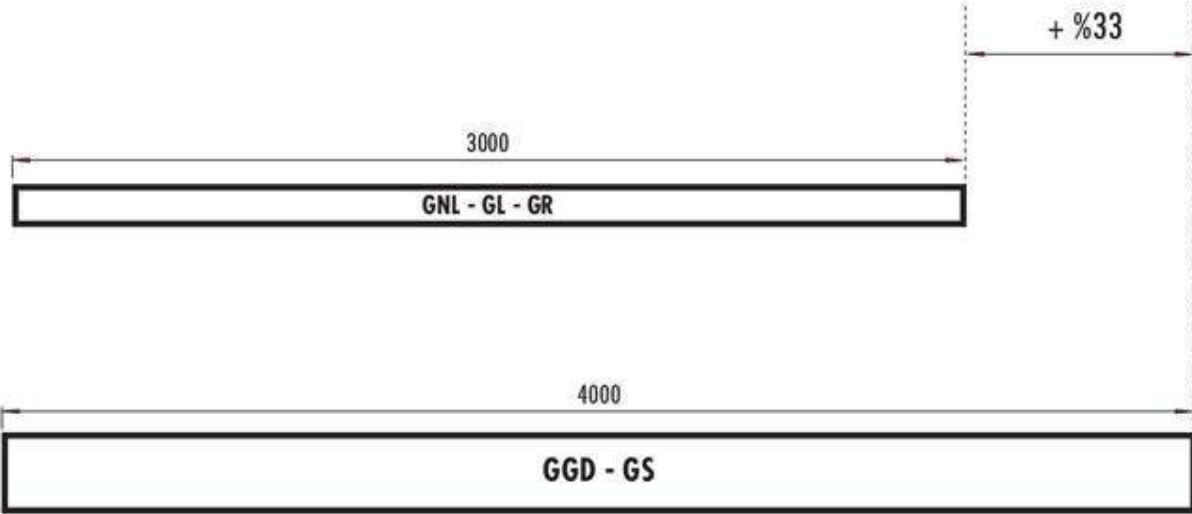


Busbar Trunking Systems  
انظمة البسبار

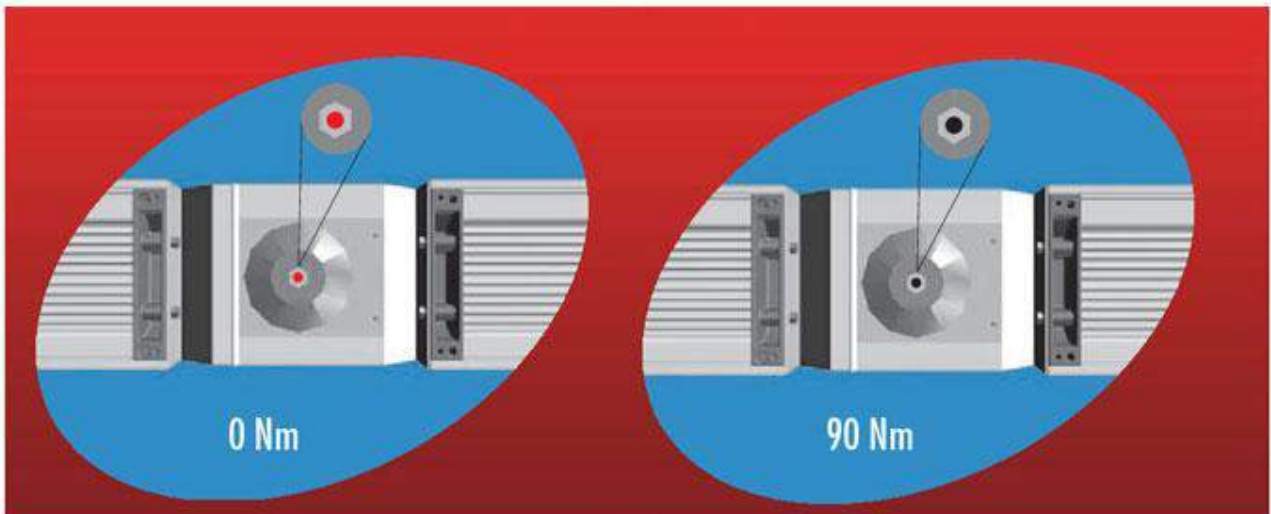
25-100 A Busbar sistemleri standart 3m, 160-1000A ve 500-6000 A Busbar sistemleri standart 4m. boyunda üretilmektedir. Böylece yüksek akımlarda daha az ek olacağından geiş dirençlerinde yaşanabilecek sorunlar engellenmiş olur.

25-100 A busbar systems are manufactured in 3 meter lengths, 160-1000A, 500-6000A busbar systems are manufactured in 4 meter lengths. These lengths avoid the risk of tension problems because of the less need of joints.

نظام باسبار 25-100 أمبير مصنع بطول 3 م، 1000-1600 أمبير، 500-6000 أمبير. نظم باسبار مصنعة بأطوال 4 متر. وهذه الأطوال تجنب من خطر مشاكل الحمل لأنها تحتاج إلى وصلات أقل.



Ek Elemanı tek civata konstrüksiyonu ile belvil rondela kullanılarak sıkılır.  
The jointing piece is screwed with only one screw and belleville type washer.  
قطع الوصل مثبتة بمسمار واحد فقط مع حلقة إحكام



## BUSBAR KANAL SİSTEMLERİ



Busbar Trunking Systems  
انظمة البندول

URÜNÜN  
PATENTİ  
GERSAN A.Ş.'e  
AITTIR.



## BUSBAR KANAL SİSTEMLERİ



Busbar Trunking Systems  
انظمة البسبار

Enerji hatları üzerinde çift yönlü haberleşme ile elektrik dağıtım ekipmanlarımız trafolar, panolar, busbar, çıkış kutuları üzerindeki ölçüm cihazlarından durum bilgisi, ölçüm değerleri gibi tüm ulaşılabilir bilgilere ulaşmamızı ve kontrol edilebilmesini sağlayan çok basit ve potansiyel bir çözümdür.

*It is a very simple and potent 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 equipment, transformers, boards, busbars, top-off boxes of power lines.*

تعتبر معدتنا للتوزيع الكهربائي والاتصالي تكتي الإجهاد من خلال خطوط الاتصالات هي الحل المتميز والبسيط التي توفر التحكم الذاتي والوصول إلى كافة المعلومات مثل القيم القياسية ومعلومات عن الحالة من خلال أجهزة القياس المتواجدة فوق المحولات والتوحيات الكهربائية والبسبار وصناديق الخروج .



G-Bus yazılımı yüklenmiş ve local yada internet ağına bağlı herhangi bir Pc den ilgili bilgi ve kontroller erişim sağlanabilir.

G-Bus otomasyon ile işletmeniz;

- \* İşletme maliyetinin düşürülmesi
- \* Ekipman kullanımında verimli olunması
- \* Elektrik güç dağılımının yönetilmesi

*Access to information and controls can be achieved on local network*

*or internet with any PC that G-Bus software installed*

*With G-Bus automation in your business;*

- \* Operating costs reduced
- \* Equipment to be efficient in usage
- \* Electric power distribution management

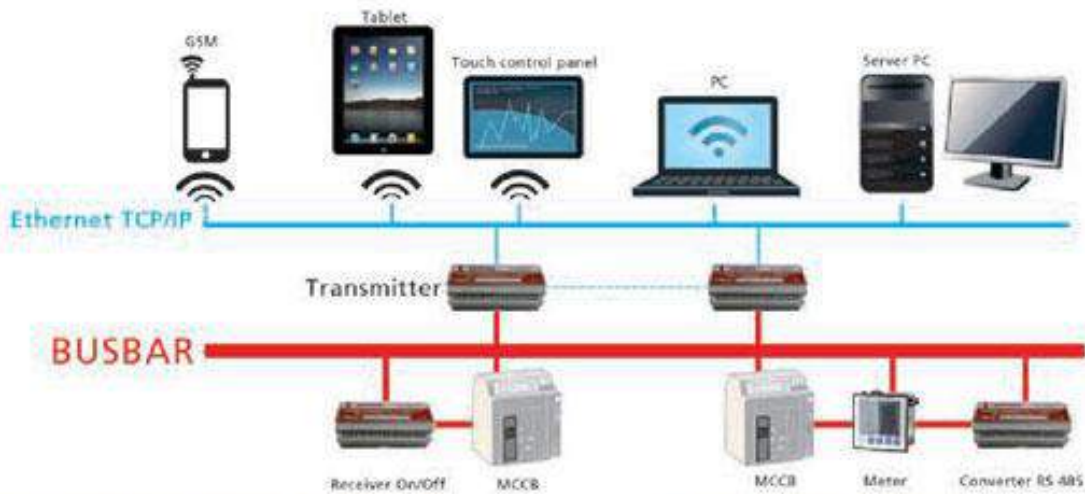
بمكان الوصول إلى التحكمات والمنطقة عن الحاسوب المتصل مع شبكة الانترنت او برمجيات ج . باسم المحمول والمحملي .

وعقد لتشكل مع البنية ج . باسم

\* تعمل على تقليل تكاليف التشغيل

\* ارتفاع كفاءة التشغيل

\* إدارة توزيعات الطاقة الكهربائية



\* Tüm binalarda ve tesislerde, kontrol izleme ve otomasyon gereksinimi artmaktadır.

- Ulusal enerji politikaları

- Üretim ve işletme maliyetleri konusunda değerlendirme yapma imkanı

*\* Needs for monitoring and automation control increasing at all buildings and facilities.*

- National energy policies

- Offers the opportunity to review issues of production and operating costs.

\* تعمل على زيادة المتطلبات الآلية والتحكمية في كافة المباني والمنشآت .

- سياسة الطاقة المحلية .

- إمكانية عمل تقديرات في مواضيع الاتساجية وتكاليف التشغيل

\* 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*

- Classifies with place descriptions

- Prevent Unnecessary use

- enables to control power consumption and Energy efficiency

\* مع خطوط الإنتاج المستدام من قبل المستهلك

- التصنيف مع تعريف المجال

- الامتناع عن الاستعمالات الغير الضرورية .

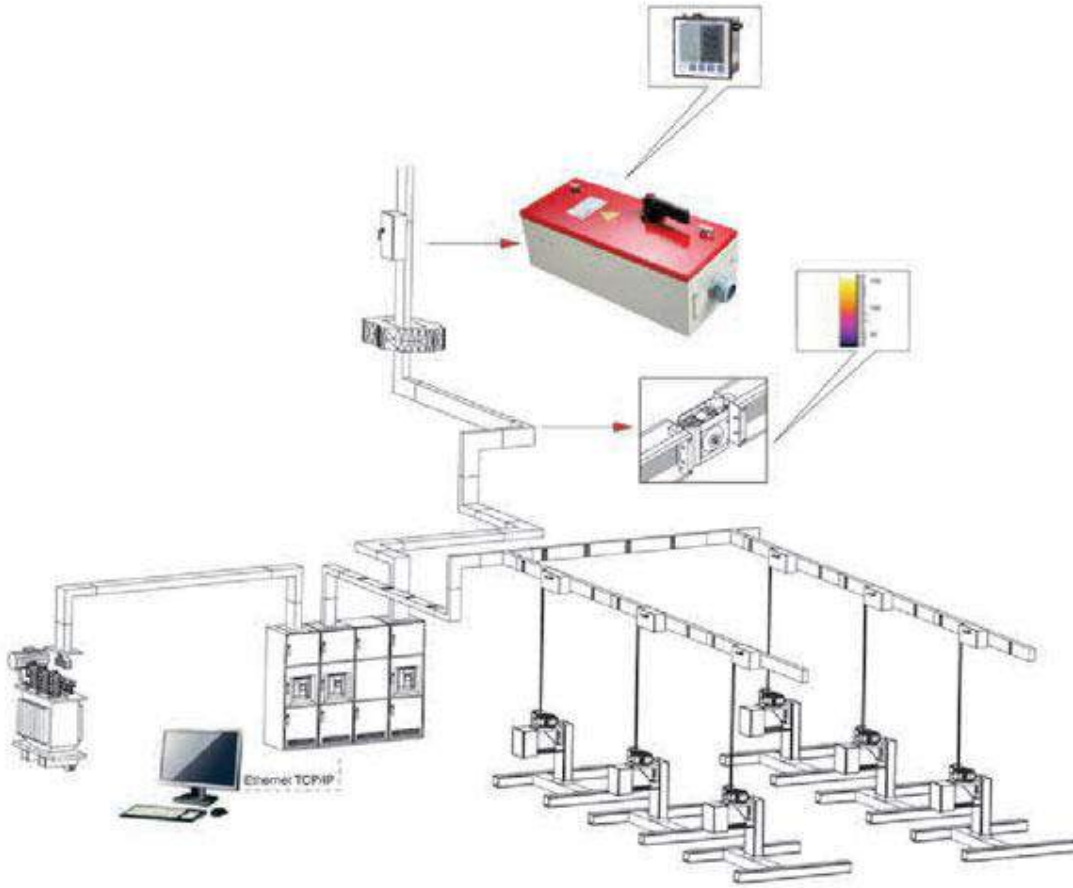
- توفر إمكانية السيطرة على الحصيلة الاتساجية واستهلاك الطاقة .



GERSAN Akıllı Busbar sistemiyle tüm Bus-bar sistemlerinde GNL, GL, GGD, ve GS ile 25-6000A arasında monte edilecek veri ki ve akı unitelerle ölçüm ve kontrol, izleme yapılabilmektedir. İlgili üneler çıkış kutularına kolayca monte edilebilecek şekilde ve DIN Ray standartlarındaki yapıyla G-Bus sinyalleri olarak analizör ölçümekçi, 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 25-6000A 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 measurement, etc.*

فضلا على نظام بسبار جيرصان الذكية يمكن اجراء المتابعات والمراقبات والقياسات مع وحدات الساحة والواهة المركبة ما بين 25-6000 أ في كفاءة انظمة باس- بار , جي ان ال , جي ال , جي جي دي , و جي اس . يمكن تشغيل الابعازات ومعلومات ثنائي الاتجاه في تحكمت الفاصم وقياسات المحلل على شكل اشارات ج باص مع بنية قياسية دين راي والتي يمكن ان تركيب بسهولة على صناديق الخروج للوحدات المتعلقة .



Busbar hatlarının tek yada çok kollu olması halinde akı ister ana panoya isterse tüm dağıtım çıkış kutularını bünyesine bulundurabilirler.

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

في حالات تفرد او تعدد خطوط بسبار يمكن توفر الساحة في بنية اللوحة الرئيسية او في بنية كفاءة صناديق الخروج للتوزيع .



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 İzleme Analiz ünitesinin çıkış kutusuna monte edilmesi halinde yükseklikten dolayı okuma yapılması bir hayli zordur. Bu nedenle G-BUS receiver Modülü analiz sistemlerinin kullanılmasını tavsiye ediyoruz. Böylece geleneksel sistemlerdeki gibi ilave hiç bir paralel hat kullanmadan çıkış kutusundaki dataları enerji hattı üzerinden server merkezine iletme mümkün olmaktadır.

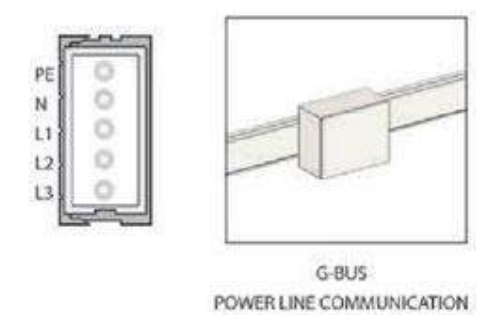
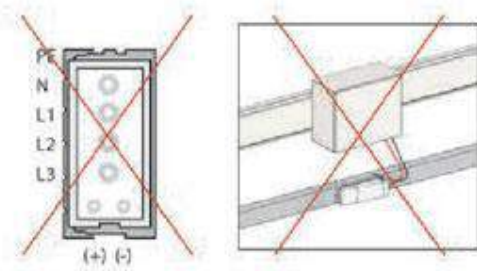
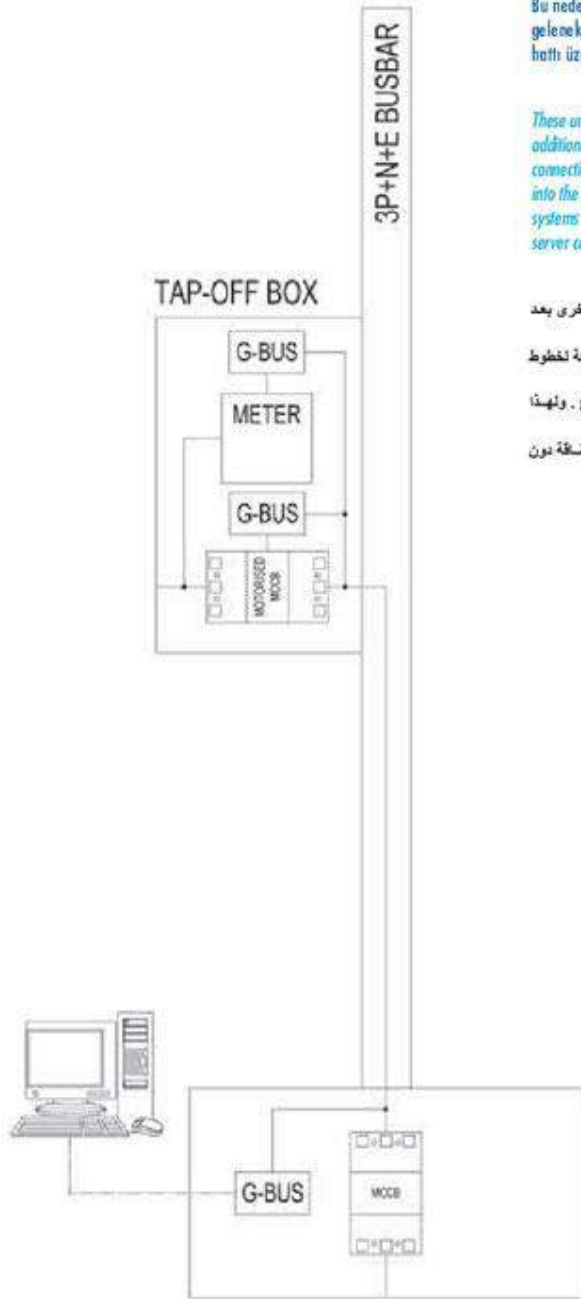
*These units are communicating over power lines and contact with the G-Bus Server software without any additional network line. G-Bus Transmitter unit that enables the isolation between power line and network connection and allows you to connect server program. Assembly of power monitoring analyzer unit 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 data of the output box to the server center by using of the power line data with no additional parallel lines as in conventional systems.*

يمكن لهذه الوحدات ان تتصل مع برمجية الخدم جي باص دون استعمال خطوط شبكة اضافية اخرى بعد الاستعلام من خلال خطوط الطاقة .

يمكن للوحدة الواحدة ج- باص توفير الاتصال مع برامج خدام المتوفر للتعزل والتوصيلات ما بين الشبكة لخطوط الانتاجية .

عندما تتركب وحدة المراقبة لمشاهدة الطاقة في صندوق الخروج , يصعب جدا القراءة بسبب الارتفاع . ولهذا السبب ينصح استعمال القصة المحلل لقالب ساحة ج - باص .

ولذا يمكن توصيل المعلومات المتوفرة في صندوق الخروج الى مركز الخدم من خلال خطوط الطاقة دون استعمال الخط المتوازي الاضافي المتوفر في التقسام التقليدي .

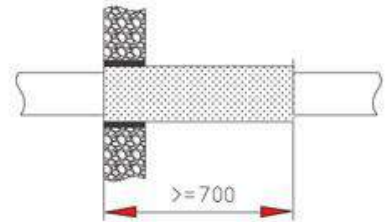
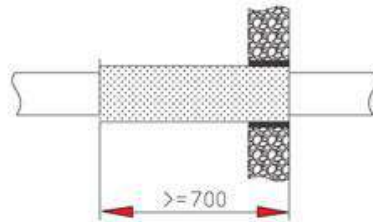
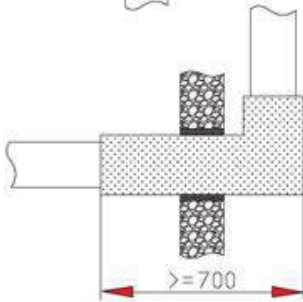
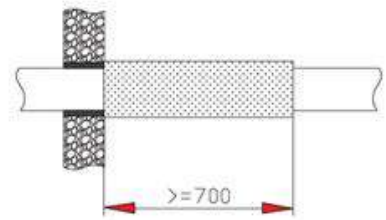
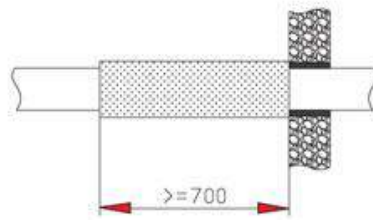
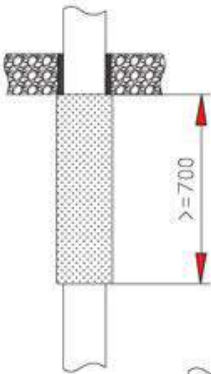
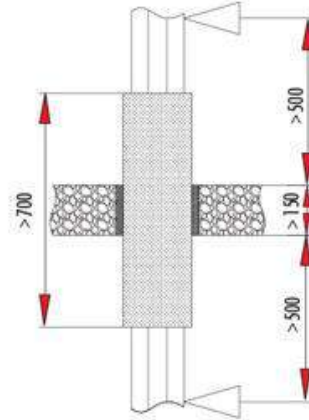
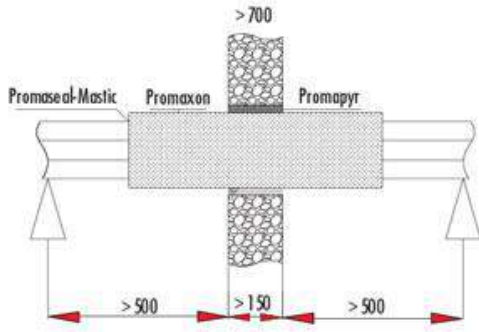
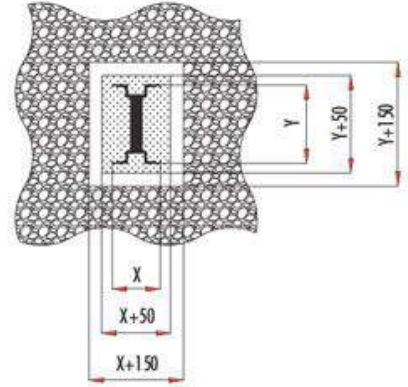




Yangın Dayanım Özellikleri *Fire Resistance Properties*

مميزات مقاومة الحريق

DIN 4102-9 S90-S120  
EN 1366-3



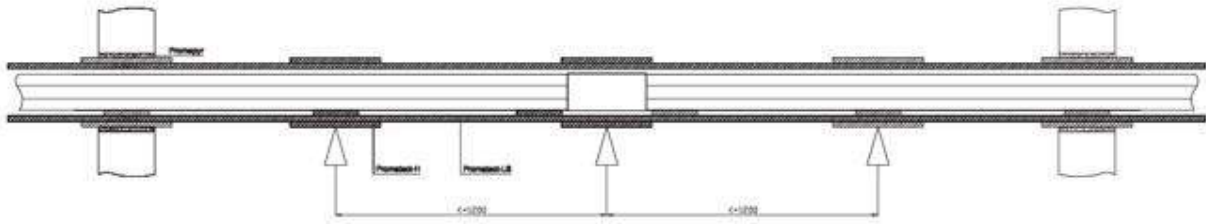
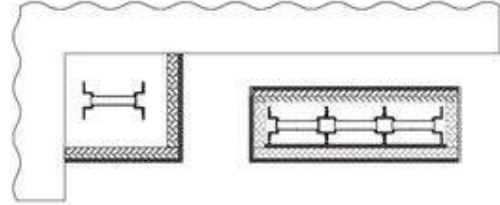




Yangın Dayanım Özellikleri Fire Resistance Properties

مميزات مقاومة الحريق

DIN 4102-12 E90



IEC 60695-2-10 & 2-13  
960°C - 30sc.

IEC 60332-3  
800°C - 40min.

IEC 60331-21  
750°C - 8hrs.

24 saat ortalamasına göre ortam sıcaklığında akım taşıma katsayısı  
Schedule of ratings for the ambient temperature on average 24 h  
كشف معدلات درجات الحرارة المحيطة على مدار 24 ساعة

	30 [°C]	40 [°C] <sup>(1)</sup>	50 [°C]	60 [°C]
K	1.10	1.00	0,9	0,8

(1) IEC 61439



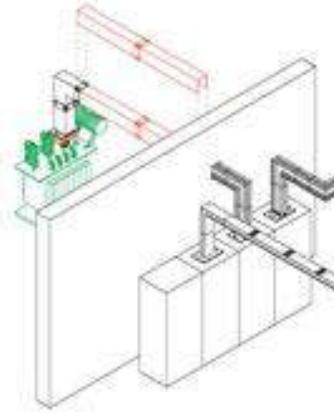
İZOLASYON SINIFLARI VDE 0530  
Insulation Classes VDE 0530  
درجات عزل VDE 0530

Sınıf Class فئة	Kabul edilebilir max. nominal yükteki durum sıcaklığı Acceptable maximum temperature of rated load درجات الحرارة المقبولة لمعدلات الأحمال	Kabul edilebilir max. aşırı sıcaklık ortalaması Acceptable maximum average temperature متوسط الحد الأقصى لدرجة الحرارة المقبولة		
		Nominal Yük Rated Load	Mعدل الأحمال	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

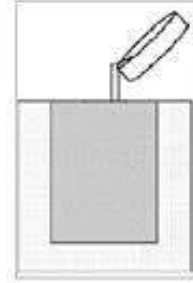
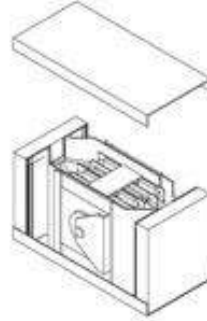


### IP KORUMA SINIFLARI IEC/EN 60529 IP Protection Classes IEC/EN 60529 فئات حماية بروتوكول الاتصال IEC/EN 60529

Dış ortam uygulamaları için gövdenin ikinci muhafazası  
Second cover of enclosure for outdoor applications  
المنطقة الثانية للمحافظة والحفاظ للمعدات الإستعمال الخارجية



KORUMA SINIFLARI IEC/EN 60529		Protection Classes IEC/EN 60529		
فئات حماية بروتوكول الاتصال IEC/EN 60529				
Birinci Kalkan First Digit الحدا ارقام البراز	Tanen Definition تعريفات	Açıklama	Description	تعريفات
0	Koruma yok No protection لا توجد حماية	Gerilim altında bulunan veya hareket eden bölümlere personelin tesadüfen dokunmasına karşı hiçbir koruma yok. Elektrik ekipmanlarını yabancılara müdahale etmesine karşı hiçbir koruma yok.	There is no protection against contact and foreign bodies.	لا توجد حماية ضد التماس والأجسام الغريبة
1	≥ 50 mm alan yabancılara müdahalelere karşı koruma Protection against particles, 50 mm and larger الحماية المتخصصة ضد أكبر من أو تساوي 50مم	Gerilim altında bulunan veya hareket eden bölümlere personelin tesadüfen büyük alanlarda dokunmasına karşı önlemler alınarak bu bölümlere dokunmaya karşı koruma yok. Çapı 50 mm ve daha büyük alan katı yabancılara müdahale etmesine 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.	توجد حماية ضد التماس مع القطع الكبيرة للتمسك. توجد حماية ضد أكبر من أو تساوي 50مم العوارض الصلبة التي تكون بقطر
2	≥ 12.5 mm alan yabancılara müdahalelere karşı koruma Protection against particles, 12.5 mm and larger الحماية المتخصصة ضد أكبر من أو تساوي 12.5مم	Gerilim altında bulunan veya hareket eden bölümlere personelin tesadüfen dokunmasına karşı koruma mevcut. Çapı 12.5 mm ve daha büyük alan katı yabancılara müdahale etmesine 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.	توجد حماية ضد التماس بالأصابع. توجد حماية ضد العوارض التي يكون بقطر أكبر من أو تساوي 12.5مم
3	≥ 2.5 mm alan yabancılara müdahalelere karşı koruma Protection against particles, 2.5 mm and larger الحماية المتخصصة ضد أكبر من أو تساوي 2.5مم	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 alan katı yabancılara müdahale etmesine 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.	توجد حماية ضد التماس مع الأدوات والأسلاك ذات القطر الأكبر من أو تساوي 2.5مم. توجد حماية ضد الأجسام الغريبة الصغيرة ذات القطر التي تساوي أو أكبر من 2.5مم
4	≥ 1 mm alan yabancılara müdahalelere karşı koruma Protection against particles, 1 mm and larger الحماية المتخصصة ضد أكبر من أو تساوي 1.0مم	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 alan katı yabancılara müdahale etmesine 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.	توجد حماية ضد التماس مع الأدوات والأسلاك ذات القطر الأكبر من أو تساوي 1.0مم. توجد حماية ضد الأجسام الحبيبية الشكل ذات القطر التي تساوي أو أكبر من 1.0مم
5	Tuz toplanmasına karşı koruma Protected against dust الحماية ضد الأتربة	Gerilim altında bulunan veya hareket eden bölümlere dokunmaya karşı belirli bir koruma. Zararlı miktarda toz toplanmasına karşı tam koruma. Tuz girmesine karşı belirli bir koruma yok, fakat tozların cihazlara bilmeyi etkileyecek 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.	توجد حماية كاملة ضد التماس. توجد حماية ضد مقدار من الأتربة التي يمكن أن تؤثر على تشغيل المعدات.
6	Tuz girmesine karşı koruma, tuz sızdırmaz Dust proof عزل الأتربة	Gerilim altında bulunan veya hareket eden bölümlere dokunmaya karşı tam koruma. Tuz girmesine karşı koruma.	There is a complete protection against contact. There is a protection against dust.	حماية كاملة ضد التماس الأجزاء المشغولة أو المشغولة تحت الضغط. حماية ضد دخول الغبار.

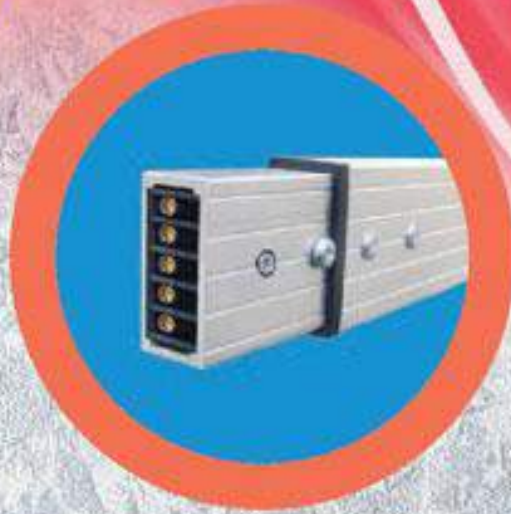


KORUMA SINIFLARI IEC/EN 60529		Protection Classes IEC/EN 60529		
IEC/EN 60529		فئات حماية بروتوكول الاتصال		
İkinci Rakam Second Digit الدرجة الثانية	Tanın Definition تعريفات	Açıklama	Description	الوصف
0	Koruma yok No protection لا توجد حماية	Belirli bir koruma yok.	There is no protection against water.	لا توجد حماية ضد الماء
1	Dişey olarak yağmur suyu karşı koruma Protected against dripping water محمية ضد الماء المتساقط	Dişey olarak düşen su damaklardan hasara neden alınması gerekir.	Vertically dripping water must not have any damaging effect	الماء المتساقط عموديا يجب أن لا يكون له أي تأثير ضار
2	Makûzaya 15° açıda düşen suya karşı koruma Protected against dripping water with 15° محمية ضد الماء المتساقط	Her iki taraftan 15°'lik bir açı ile eğme verilmiş bir makûzaya dişey olarak düşen su damaklardan 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.	الماء المتساقط عموديا يجب أن لا يكون له أي تأثير ضار مع التميل العمودي في أي من الاتجاهات بدرجة تصل إلى 15° درجة من
3	Yağmur yağmuru karşı koruma Protected against spraying water محمية ضد رش الماء	Her iki taraftan 60°'ye kadar olan her açıda dişey olarak sızılan 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.	الرش على أي من الجانبين الماء المرشوش بدرجة 60° درجة من يجب أن لا يكون له أي تأثير ضار
4	Fıskıran suya karşı koruma Protected against splashed water محمية ضد الماء المتناثق	Makûzaya her taraftan püskürtülen suyun zarar vermemesi gerekir.	Water splashed at the enclosure from any direction must not have any damaging effect.	أي اتجاه يجب أن لا يكون له أي الماء المرشوش على الجوانب من تأثير ضار
5	Çok hızlı püskürtülen suya karşı koruma Protected against water jet streams محمية ضد أبخرة الماء المتصاعدة	İhtisase ekipmanlar bir maddeden 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.	مع الجوانب من أي اتجاه يجب أن لا أبخرة الماء المتدفقة والتي تتماس يكون لها أي تأثير ضار
6	Çok hızlı kuvvetli püskürtülen suya karşı koruma Protected against high pressure water jet streams محمية ضد صخ الماء بضغط عالي	İhtisase ekipmanlar bir maddeden kuvvetli olarak her yönde püskürtülen suyun zarar vermemesi gerekir.	High pressure water jet streams which make contact with the enclosure from any direction must not have any damaging effect.	والتي تتصل بالجوانب من أي اتجاه أبخرة الماء المتدفقة بضغط عالي يجب أن لا يكون لها أي تأثير
7	Zaman zaman suya daldırılmaya karşı koruma Protected against intermittent submersion in water محمية ضد الإنغراس في الماء	İhtisase ekipmanlar üretilmiş ve kullanımı sırasında varolan meteorolojik şartlar altında sürekli olarak suya daldırıldığında zararlı etkilerle karşılaşmaması 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.	قد لا ينفذ الماء إلى المحتوى إلى ذلك الحد الذي يصبح له تأثير ظاهر، عندما يتم غمرها في الماء تحت ضغط ولفترة قياسية.
8	Sürekli olarak suya daldırılmaya karşı koruma Protected against continuous submersion in water محمية ضد الإنغراس المستمر في الماء	İhtisase ekipmanlar üretilmiş ve kullanımı sırasında varolan meteorolojik şartlar altında sürekli olarak suya daldırıldığında zararlı etkilerle karşılaşmaması 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.	قد لا ينفذ الماء إلى المحتوى إلى ذلك الحد الذي يصبح له تأثير ظاهر، عندما يتم غمرها في الماء تحت ضغط ولفترة قياسية.
9	Yüksek basınçlı suya karşı koruma Protected against highly pressurized water and steam jet محمية ضد الإنغراس المستمر في الماء	İhtisase ekipmanlar makûzaya kuvvetli su basıncı doğrultusunda zararlı etkilerle karşılaşmaması gerekir.	Highly pressurized water which is directed at the enclosure from any direction must not have any damaging effect.	الماء ذو الضغط العالي والذي يكون موجه إلى الجوانب من أي اتجاه يجب أن لا يكون له أي تأثير





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



**GNL**



ISO 9001-14001-18001

## AYDINLATMA BUSBAR SİSTEMLERİ



Lighting Busbar Trunking Systems  
أنظمة تمديدات باسبار للإنارة



GNL 25-40A



IP55

GNL

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

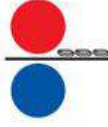
- \* Are being installed for lighting and false floor.
- \* Are being manufactured either 25A or 40 amp.
- \* The joining piece has been designed as click type.
- \* The housing is aluminium.
- \* Conductors are offered between 2 to 5 according to your choice
- \* They have all certifications related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

يتم تركيبه للإنارة والأسقف المعلقة  
يتم تصنيعه إما 25 أمبير أو 40 أمبير  
القطع المتصلة تم تصميمها لتتداخل بإحكام  
المنيم من الألمنيوم  
الموصلات تقع ما بين 2 و 5 وفقاً لاختياركم  
حاصلة على كافة الشهادات المتعلقة بشهادة باسبار سي إي

GNL serisi 25-40 A Busbar sistemi aydınlatma ve sistem buatlarının enerjileştirilmesinde kullanılır. İletim birbirine geçen gümüş konnektörler aracılığı ile sağlanır. Gümüş kaplı akım alma kontakları 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 buy silver coated connectors. The plug outs may offer 16A current with silver coated contacts.

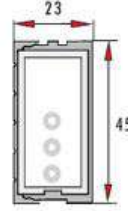
سلسلة جي إن إل 25-40 من أنظمة باسبار يتم عرضها للإنارة وأنظمة التغذية لصناديق الأدوار. والوصلات يتم الحصول عليها عن طريق وصلات مغطاه بالورق المقفض. منافذ المكابس تأتي مع 16 أمبير بوصلات مغطاه بالورق المقفض.



### STANDART BOY ELEMAN P+N+PEc Standard Length Element P+N+PEc عنصر بطول قياسي



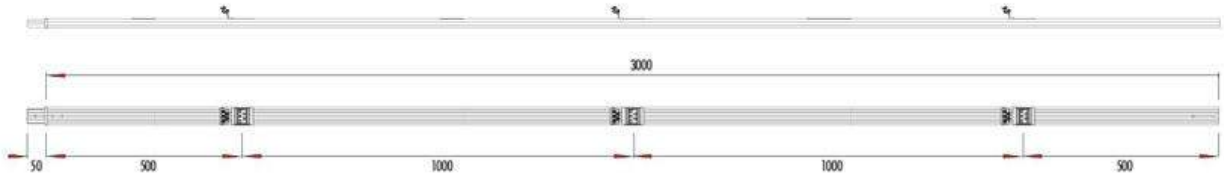
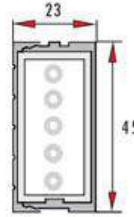
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	L mm MM	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم/الوحدة)
<b>GNL 2533</b>	<b>970400255513030</b>	<b>25</b>	<b>3000</b>	<b>0,820</b>
<b>GNL 4033</b>	<b>970500405513030</b>	<b>40</b>	<b>3000</b>	<b>0,920</b>

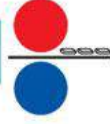


### STANDART BOY ELEMAN 3P+N+PEc Standard Length Element 3P+N+PEc عنصر بطول قياسي



Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	L mm MM	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم/الوحدة)
<b>GNL 2535</b>	<b>970800255513050</b>	<b>25</b>	<b>3000</b>	<b>0,860</b>
<b>GNL 4035</b>	<b>970900405513050</b>	<b>40</b>	<b>3000</b>	<b>0,980</b>

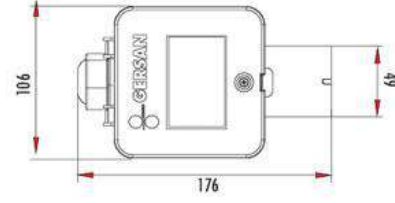




BESLEME ELEMANI (SOL) Feed unit (Left) وحدة التغذية (يسار)



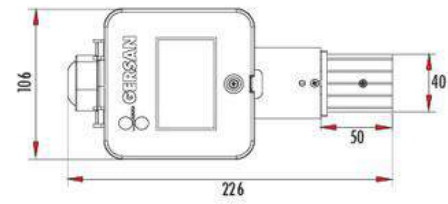
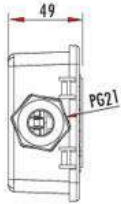
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GNL EF41	971000405510050	25-40	0,206



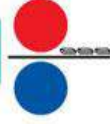
BESLEME ELEMANI (SAĞ) Feed unit (Right) وحدة التغذية (يمين)



Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GNL EF42	971100405510050	25-40	0,269



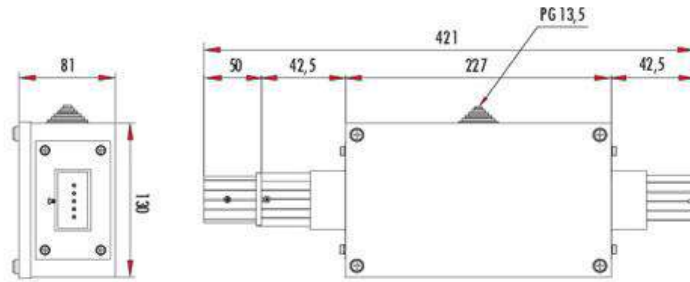




ORTADAN BESLEME ELEMANI Center Feed Unit (المركز) وحدة التغذية



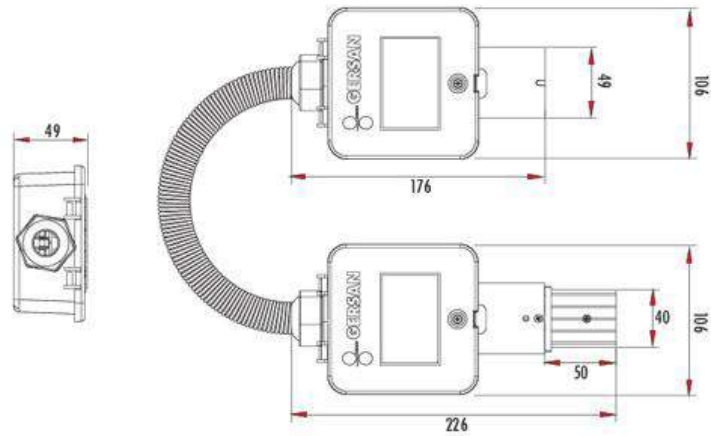
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم / الوحدة)
<b>GNL EF43</b>	<b>971200405510050</b>	<b>25-40</b>	<b>1,880</b>



FLEXIBLE DÖNÜŞ ELEMANI Flexible Joint for Elbow وصلات مرنة للأكواع



Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم / الوحدة)
<b>GNL 40FX</b>	<b>972300405511000</b>	<b>25-40</b>	<b>0,800</b>



L=1000 mm



AKIM ALMA FİŞİ Lighting Fixture Jack جاك تركيبات الإنارة



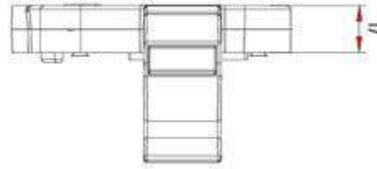
Standard kablo boyu: 1000 mm  
Standard cable length: 1000 mm  
طول الكابل القياسي: 1000 مم

İstenildiğinde kablo boyu 2000 mm 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.  
عند الطلب يمكن توفير أطوال 2000 مم، 3000 مم أو 4000 مم.

CE kodlu ürünler temiz topraklar.  
Clean earth is CE coded products.

المنتجات التي بها توصيل أرضي عليها الرزم "CE"

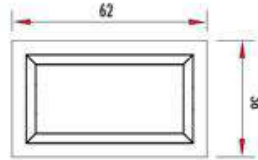
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Faz Phase	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم / الوحدة)
GNL 10 L1-CE	971500165521000	10	L1-N-CE	0,219
GNL 10 L2-CE	971600165521000	10	L2-N-CE	0,219
GNL 10 L3-CE	971700165521000	10	L3-N-CE	0,219
GNL 10 L4-1-CE	971800165521000	10	L1-L2-L3-N-CE	0,259



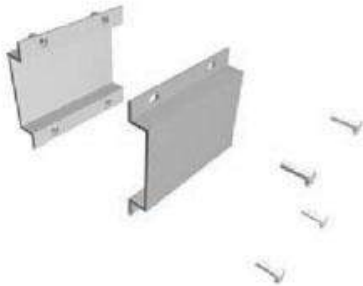
SONLANDIRMA ELEMANI End Cap غطاء الطرف



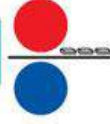
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم / الوحدة)
GNL EC40 (GNL EF41)	801300405550000	0,030
GNL EC41 (GNL EF42)	801300405550001	0,056



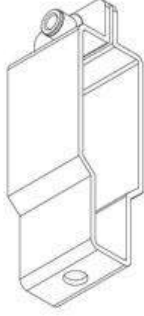
IP55 EK KAPAĞI IP55 Joint Cover IP55 غطاء وصلة



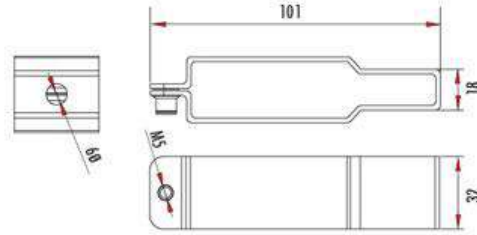
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم / الوحدة)
GNL ALC	80040040551A140	0,144



ARMATÜR ASKI ELEMANI *Lighting fixtures fixing hanger* علاقات تركيبات الإنارة



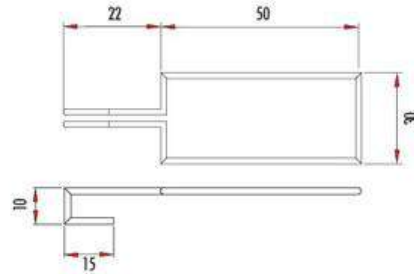
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GNL SSU1	80 140 000 00 40000	0,048



ARMATÜR ASKI ELEMANI *Lighting fixtures fixing hanger* علاقات تركيبات الإنارة



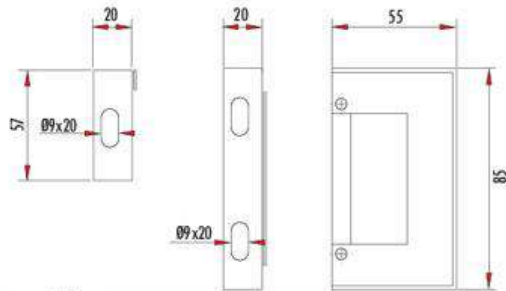
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GNL SSU2	80 140 000 00 40002	0,005

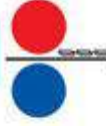


BUSBAR ASKI ELEMANI *Busbar fixing hanger* علاقات تركيبات باسبار



Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GNL SSU3	80 140 000 00 40003	0,105





1) İki elemanı birbirine eklenerek yüzeyi yan yana getirilir.  
1) The surfaces of both elements that will be added to each other are brought side by side.  
أسطح العناصر التي سوف يتم إضافتها إلى بعضها البعض يتم وضعها جانب إلى جنب



2) M4 civata, eklenen elemanları sıkıştırarak şekilde sokulür.  
2) Screw on top of the hole (slot). Screw is screwed.  
البرغي في الفتحة العلوية البرغي مثبت

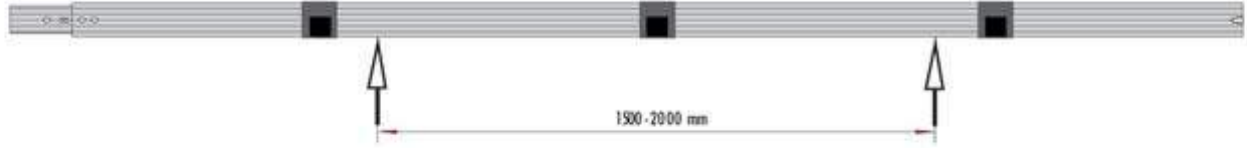


3) 4 adet M5x15 vidle ile sıkılarak kapama işlemi tamamlanır.  
3) Covering process completes with using 4 nos. M5x15 screws.  
إجراء التغطية يكتمل باستخدام عدد 4 براغي M5x15

2) Slot delik ve M4 civata birbine tam oturacak şekilde iki eleman eklenir.  
2) Two elements are added each other by fixing screw on top of the hole (slot).  
العنصران يتم إضافتهما على بعضهما عن طريق برغي التثبيت من اعلى الفتحة (الشق)

4) Ek takım resimdeki parçaların olarak.  
4) Joint set have elements like in the picture.  
مجموعة التوصيل بها العناصر الموضحة بالصورة

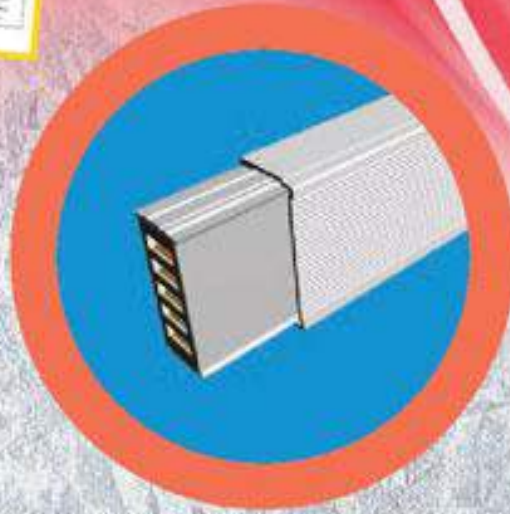
6) Ek kapaklı takılmak suretiyle IP55 ve mekanik koruma sağlanır.  
6) Joint covering process supply IP55 and mechanical protection.  
إجراء التغطية يوفر حماية IP55 وحماية ميكانيكية



TEKNİK BİLGİLER	Technical Details	التفاصيل الفنية	25 A		40 A
İzolasyon Gerilimi Isolation voltage جهد العزل	$U_i$	V	1000		
Uygulama Gerilimi Operational Voltage جهد التشغيل	$U_E$	V	690		
Frekans Frequency التردد	f	Hz	50/60		
Koruma Derecesi Degree of protection درجة الحماية	IP		55		
Nominal Akım Rated current التيار المعدل	$I_N$	A	25	40	
Kısa Devre Akımı (1s) Rated short circuit time current (1 ثانية) الوقت المعدل لدائرة التوصيل للترابور (1 ثانية)	$I_{cw} (1s)$	kA rms	2,5	3,5	
Kısa Devre Akımı Peak current قمة التيار	$I_{pk}$	kA	3,75	5,25	
Faz Direnci Phase resistance مقاومة الفاز	$R_{20}$	mΩ/m	4,5	3	
Faz Direnci Phase resistance مقاومة الفاز	$R_f$	mΩ/m	6,03	4,07	
Faz Reaktansı Phase reactance مفاعلة الفاز	$X_f$	mΩ/m	7,5	6,73	
Faz Empedansı Phase impedance ممانعة الفاز	$Z_f$	mΩ/m	9,6	7,86	
Faz Kesiti Cross section phases مقطع عرضي للفازات	S	mm <sup>2</sup>	4	6	
Nötr Kesiti Cross section neutral مقطع عرضي للفاز الأرضي	$S_N$	mm <sup>2</sup>	4	6	
Alüminyum Kasa Kesiti Cross section of protective conductor (aluminium) مقطع عرضي موصل الحماية (الومنيوم)	$S_{PE}$	mm <sup>2</sup>	153,60		



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



**GL**



ASTA



KEMAK

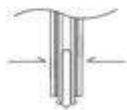
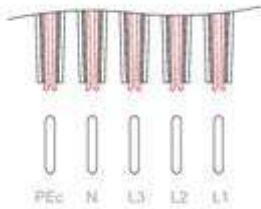
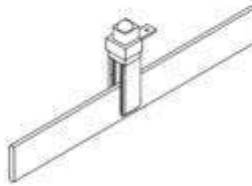
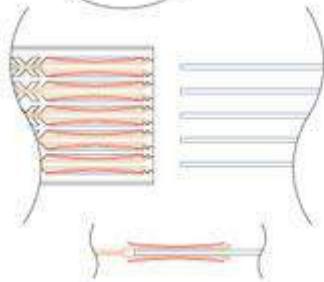
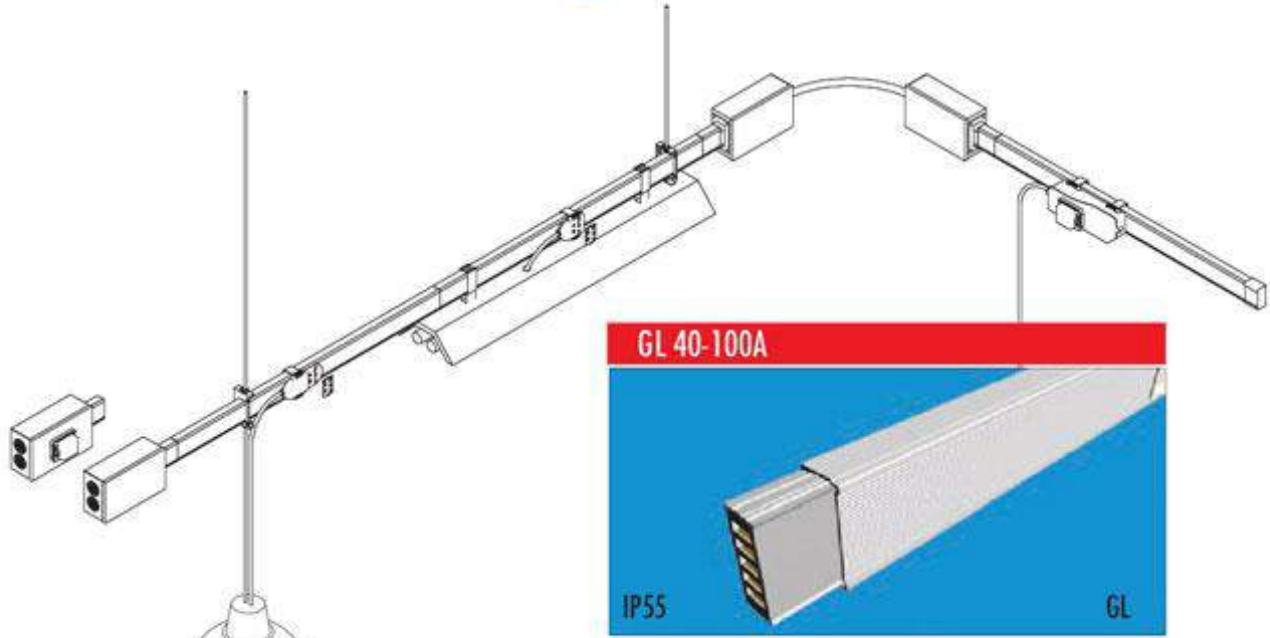
V<sup>SM</sup>



CE



[ISO 9001-14001-18001]



- \* Düşük güç dağıtım için kullanılır.
- \* Alüminyum gövdesi dekoratif görünüm sağlar.
- \* 2, 3, 4 ve 5 barak olarak üretilir.
- \* Pot (Temiz Toprak) iletkeni sağlar.
- \* Alüminyum gövde ekstra Pe iletkeni olarak kullanılabilir.
- \* İletkenleri bakır veya alüminyum tercih edilebilir.
- \* Sıkı geçme barak ek sistemi montajı 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.

هذا النوع هو نوع توزيع كهرباء منخفضة

يوفر غطاء الألمنيوم مظهر جمالي

يوفر المنيم الألمنيوم مظهر جمالي

مصنعة مع 5 موصلات

يمكن استعمال المنيم الألمنيوم كموصل إضافي

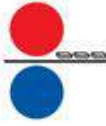
الموصلات ممكن أن تكون من الألمنيوم أو النحاس، وفقا للاختيار

يوفر التثبيت المحكم للموصلات الراحة عند التركيب

يتوفر له مدى كبير من الاكسسورات

مصنوع مع درجة حماية IP55

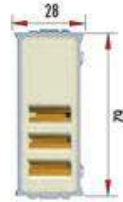
حاصل على جميع الشهادات وشهادة CE لأنظمة باسبار



STANDART BOY ELEMAN P+N+PEc Standard Length Element P+N+PEc عنصر بطول قياسي



Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	L mm MM	Ağırlık (Kg/mt.) Weight (Kg/mt.) الوزن (كجم/متر)
GLA 4033	950600405513030	40	3000	1,850
GLA 6333	950600635513030	63	3000	1,950
GLC 6333	960600635513030	63	3000	2,600
GLC 10033	960601005513030	100	3000	2,730



STANDART BOY ELEMAN 3P+N+PEc Standard Length Element 3P+N+PEc عنصر بطول قياسي



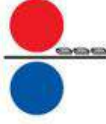
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	L mm MM	Ağırlık (Kg/mt.) Weight (Kg/mt.) الوزن (كجم/متر)
GLA 4035	950100405513050	40	3000	1,310
GLA 6335	950100635513050	63	3000	1,310
GLC 6335	960100635513050	63	3000	2,240
GLC 10035	9601001005513050	100	3000	2,240



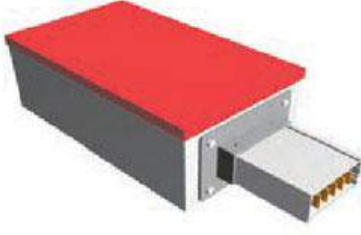
Siyah yazılı ürünler alüminyum baralı, kırmızı yazılı ürünler bakır baralı olarak imal edilmektedir.

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

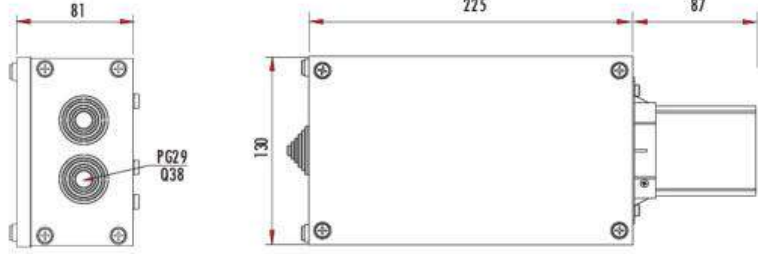
يتم تصنيع المنتجات بالخط الاسود ذات موصل المنيوم والمنتجات بالخط الاحمر ذات موصل نحاس



BESLEME ELEMANI (SOL) Feed unit (Left) وحدة التغذية (يسار)



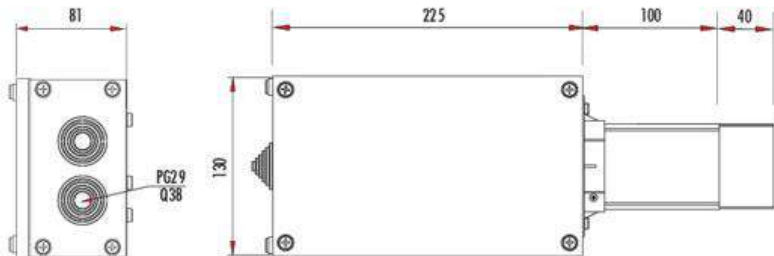
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GLA EF 41	951001005510050	40-63	1,550
GLC EF 41	961001605510050	63-100	1,760



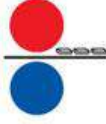
BESLEME ELEMANI (SAĞ) Feed unit (Right) وحدة التغذية (يمين)



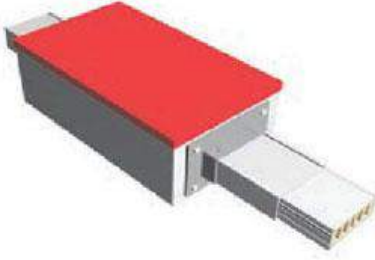
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GLA EF 42	951101005510050	40-63	1,740
GLC EF 42	961101605510050	63-100	2,000



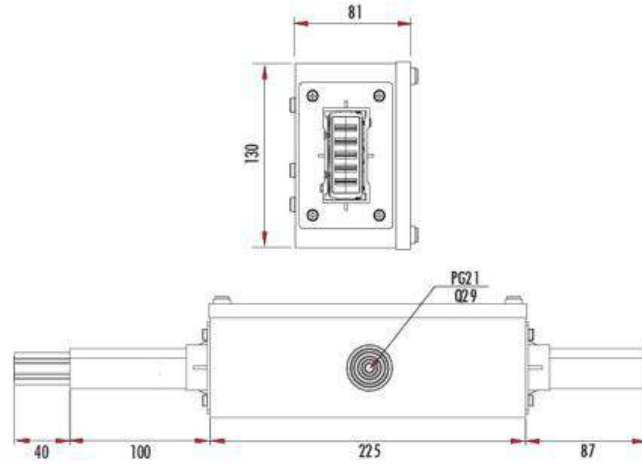




ORTADAN BESLEME ELEMANI Center Feed Unit (وحدة التغذية (المركز)



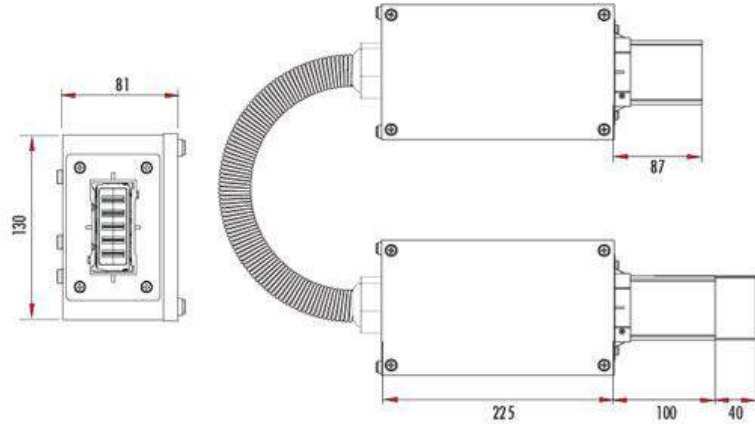
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم /الوحدة)
GLA EF 43	951201005510050	40-63	3,000
GLC EF 43	961201605510050	63-100	3,200



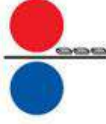
FLEXIBLE DÖNÜŞ ELEMANI Flexible Joint for Elbow وصلات مرنة للأكواع



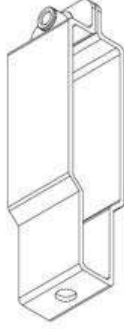
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم /الوحدة)
GLA 63FX	952301005511100	40-63	4,200
GLC 160FX	962301605511100	63-100	6,100



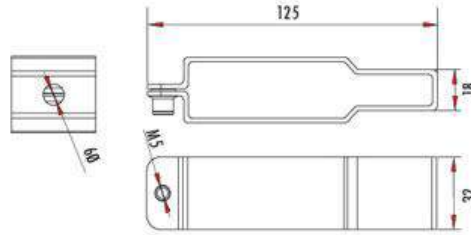
L=1000 mm



## ARMATÜR ASKI ELEMANI Lighting fixtures fixing hanger علاقات تركيبات الإنارة



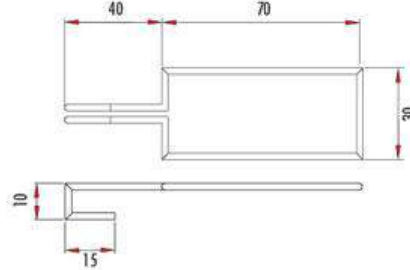
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ağırlık (Kg/ada) Weight (Kg/unit) الوزن (كجم/الوحدة)
GL SSU1	95140000040000	0,058



## ARMATÜR ASKI ELEMANI Lighting fixtures fixing hanger علاقات تركيبات الإنارة



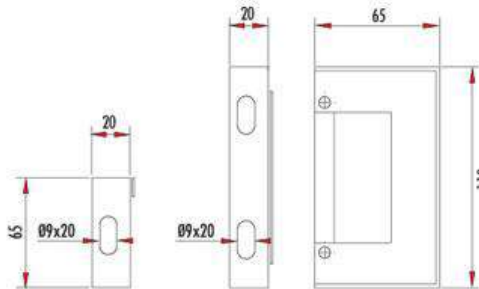
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ağırlık (Kg/ada) Weight (Kg/unit) الوزن (كجم/الوحدة)
GL SSU2	95140000040002	0,007



## BUSBAR ASKI ELEMANI Busbar fixing hanger علاقات تركيبات باسبار



Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ağırlık (Kg/ada) Weight (Kg/unit) الوزن (كجم/الوحدة)
GL SSU3	95140000040003	0,133





## IP55 EK KAPAĞI IP55 Joint Cover غطاء وصلة IP55

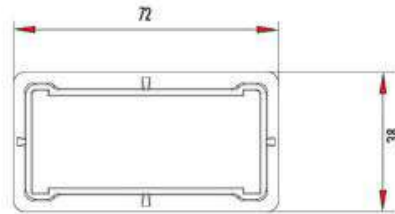


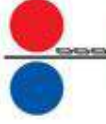
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GL ALC	95040160551AL50	0,174

## SONLANDIRMA ELEMANI End Cap غطاء الطرف



Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GL EC40 (GL EF41)	951301605550000	0,035
GL EC41 (GL EF42)	951301605550001	0,056





### AKIM ALMA FİŞİ Lighting Fixture Jack

### جاك تركيبات الإنارة



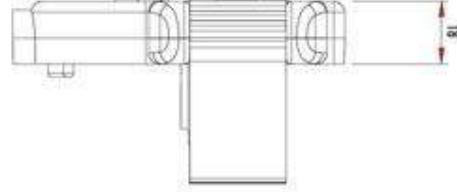
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	A A A	Faz Phase	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم الوحدة)
GL 16L1-CE	951500165511000	16	L1-N-CE	0,250
GL 16L2-CE	951600165511000	16	L2-N-CE	0,250
GL 16L3-CE	951700165511000	16	L3-N-CE	0,250
GL 16L4-1-CE	951800165511000	16	L1-L2-L3-N-CE	0,276

Standart kablo boyu 1000 mm  
Standard cable length : 1000 mm  
طول الكابل القياسي 1000م

İstenildiğinde kablo boyu 2000 mm 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.  
عند الطلب يمكن توفير أطوال 2000م، 3000م أو 4000م

CE kodu ürünler temiz topaklar.  
Clean Earth is CE coded products.

المنتجات التي بها توصيل أرضي عليها الرمز "CE"



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

### تركيبات إنارة مع مصهر زجاجي



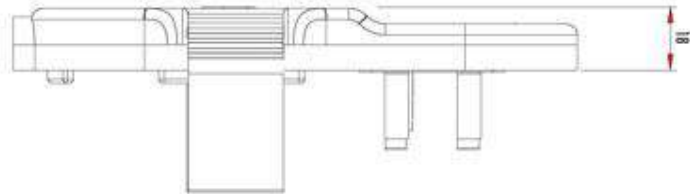
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	A A A	Faz Phase	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم الوحدة)
GL 16F1-CE	951900165511000	16	L1-N-CE	0,272
GL 16F2-CE	952000165511000	16	L2-N-CE	0,272
GL 16F3-CE	952100165511000	16	L3-N-CE	0,272
GL 16F4-1-CE	952200165511000	16	L1-L2-L3-N-CE	0,298

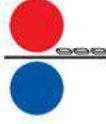
Standart kablo boyu 1000 mm  
Standard cable length : 1000 mm  
طول الكابل القياسي 1000م

İstenildiğinde kablo boyu 2000 mm 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.  
عند الطلب يمكن توفير أطوال 2000م، 3000م أو 4000م

CE kodu ürünler temiz topaklar.  
Clean Earth is CE coded products.

المنتجات التي بها توصيل أرضي عليها الرمز "CE"



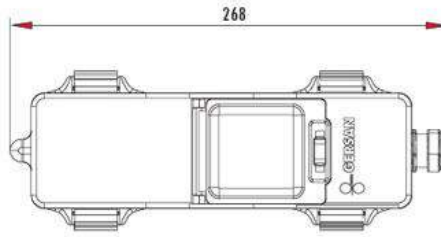
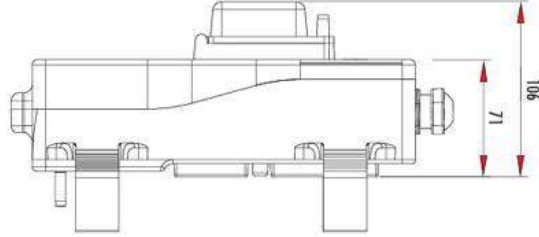
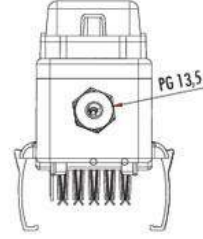


MCB TİPİ ÇIKIŞ KUTUSU MCB Type Tap-Off Box

نوع MCB صندوق إغلاق



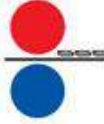
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Uygulama Execution Sigortasız	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GL F32W-CE	952200325511000	3 x MCB	1,850
GL F32G-CE	952300325511000	3 x GF	1,950



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

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

صناديق الإغلاق قابلة للتغيير بين أنواع البسبار. وهذه المواد مصممة وفقاً للنظام الثلاثي الفاز أو الأحادي مع منصهر جي إف.



1) İki elemanı birbirine eklenecek yüzeyi yan yana getirilir.  
1) The surfaces of both elements that will be added each other are brought side by side.  
أسطح العناصر التي سوف يتم إضافتها إلى بعضها البعض يتم وضعها جانب إلى جنب

2) Busbarları ek noktalarını birleştiriniz.  
2) Position Busbar with joining joint points.  
توصيل النقاط المشتركة للبسبار



3) Ek tekniği resimdeki parçalardan oluşturun.  
3) Joint set have elements like in the picture.  
مجموعة التوصيل بها العناصر الموضحة بالصورة



4) 4 adet M5x15 vida ile sıkılarak kapama işlemi tamamlanır.  
4) Covering process completes with using 4 pcs. M5x15 screws.  
إجراء التغطية يكتمل باستخدام عدد 4 براغي M5x15

5) Ek kapakı takılmak suretiyle IP55 ve mekanik koruma sağlanır.  
5) Joint covering process supply IP55 and mechanical protection.  
إجراء التغطية يوفر حماية IP55 وحماية ميكانيكية

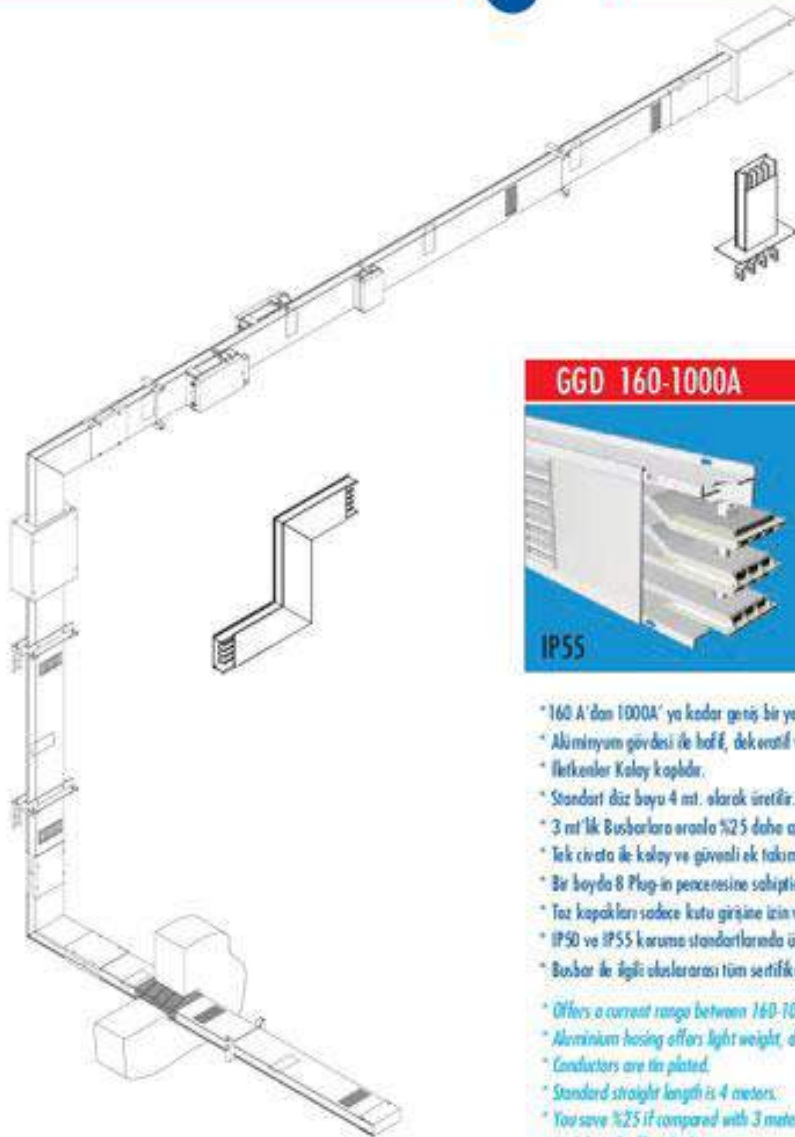


TEKNİK BİLGİLER	Technical Details	التفاصيل الفنية	40 A	63 A	100 A
İzolasyon Gerilimi	Insulation voltage	جهد العزل	1000		
Uygulama Gerilimi	Operational Voltage	جهد التشغيل	690		
Frekans	Frequency	التردد	50/60		
Koruma Derecesi	Degree of protection	درجة الحماية	55		
Nominal Akım	Rated current	التيار المعدل	40	63	100
Kısa Devre Akımı (1sn)	Rated short circuit time current (1 s)	الوقت المعدل لدائرة التوصيل للترايز (1 ثانية)	3	3	3.5
Kısa Devre Akımı	Peak current	قمة التيار	4.5	4.5	5.25
Faz Direnci	Phase resistance	مقاومة الفاز	1.8	1.28	0.9
Faz Direnci	Phase resistance	مقاومة الفاز	2.41	1.71	1.2
Faz Reaktansı	Phase reactance	مفاعلة الفاز	0.98	0.7	0.43
Faz Empedansı	Phase impedance	ممانعة الفاز	2.61	1.85	1.3
Faz Kesiti	Cross section phases	مقطع عرضي للفازات	10	14	26
Nötr Kesiti	Cross section neutral	مقطع عرضي للفاز الأرضي	10	14	26
Alüminyum Kosa Kesiti	Cross section of protective conductor (aluminium)	مقطع عرضي موصل الحماية (الومنيوم)	280		



## ORTA GÜÇ BUSBAR KANAL SİSTEMLERİ

Medium Power Busbar Trunking Systems  
انظمة البسبار للقوة المتوسطة



GGD serisi Busbar sistemi, standart 4m. boyunda alüminyum kasa, iki taraflı 8 adet akım alma penceresi, hızlı ve kolay montaja imkan sağlayan tek civata konstrüksiyonu ile ekonomik bir tasarımdır. 160 A'dan 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 accessories.

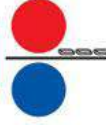
مجموعة جي جي دي - 160-1000 أمبير. هذه المجموعة لها مميزات الألومنيوم بطول 4 أمتار، 8 قطع من المنافذ، برغي توصيل لتسهيل واقتصادية التركيب. هذه المجموعة بها منافذ توصيل تيار كهربائي ما بين 160-1000 أمبير. وهي الاختيار الأفضل في المشاريع التي بها اكسسوارات كثيرة.



- \* 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 mt'lik Busbarlara oranla %25 daha az ek kullanılır.
- \* Tek civata ile kolay ve güvenli ek takılmasına sahiptir.
- \* Bir boyda 8 Plug-in penceresine sahiptir.
- \* Toz kapakları sadece kütü girişine izin verir.
- \* IP50 ve IP55 koruma standartlarında üretilir.
- \* Busbar ile ilgili okullararası 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 system.
- \* Each length offers 8 plug-in's.
- \* Safe joint installation with 1 screw joint set.
- \* Dust proof covers allow only box insert.
- \* Are manufactured with IP50 or IP55 protection degree.
- \* Owns all international certifications and CE certification about busbar systems.

تقدم مدى من التيارات الكهربائية ما بين 160-1000 أمبير من الألمنيوم خفيف الوزن والصلب وله مظهر جمالي نقاط التوصيل مغلقة بالتصديق الطول المستقيم القياسي هو 4 متر توفر %25 بالمقارنة مع أنظمة البسبار ذات الأطوال 3م كل طول به 8 مقابس توصيل سهل وتركيب آمن عن طريق برغي واحد أغشية عازلة للأثرية تسمح فقط بدمج الصندوق يتم تصنيعها مع درجة من حماية IP55 أو IP50  
حاصلة على جميع الشهادات الدولية وشهادات أنظمة البسبار





GGD

GGD-A 160-1000A

İletken olarak kullanılan malzeme alüminyumdur (EC Grade).  
*The conductors used in this serie are aluminium(EC Grade).*  
الموصلات المستخدمة في المجموعة من الألومنيوم (درجة EC)

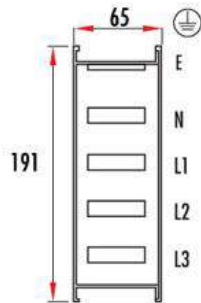
GGD-C 160-800A

İletken olarak kullanılan malzeme elektrolitik bakırdır (%99.9 Saflıkta).  
*The conductors used in this serie are electrolytic copper(%99.9 purity).*  
الموصلات المستخدمة في المجموعة هي من النحاس العالي التوصيل  
(%99.9 درجة النقاء)  
عند الطلب كامل الطول مغطى بالقصدير

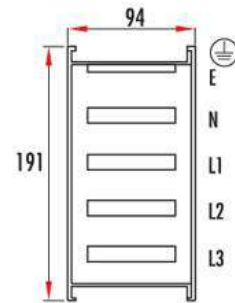
3P+N+%50E

GGD-A 160-400A

GGD-C 160-800A



GGD-A 500-1000A



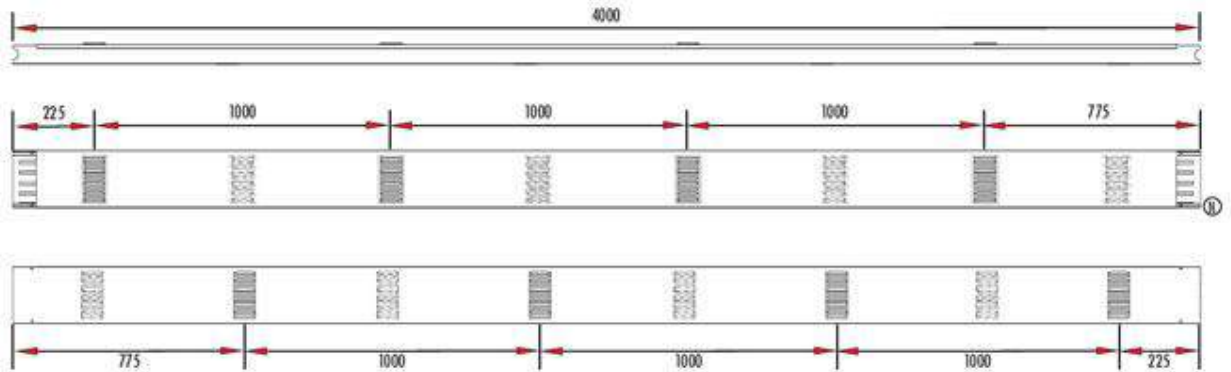


STANDART BOY ELEMAN 3P+N+1/2 PE Standard Length Element 3P+N+1/2 Pe عنصر بطول قياسي



GGD-A				
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	L mm MM	Ağırlık (Kg/m) Weight (Kg/m) الوزن (كجم/متر)
GGD-A 201000	810101605524050	160	4000	5.380
GGD-A 202000	810102505524050	250	4000	5.380
GGD-A 203000	810103155524050	315	4000	6.450
GGD-A 204000	810104005524050	400	4000	6.450

GGD-C				
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	L mm MM	Ağırlık (Kg/m) Weight (Kg/m) الوزن (كجم/متر)
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	19.500



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

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

العنصر القياسي هو IP50. برجاء ذكر اكسسوارات IP55 عند تقديم طلب الشراء



ARABOY ELEMEN 3P+N+1/2 PE Non-Standard Length Element 3P+N+1/2 Pe عنصر الطول الغير قياسي



GGD-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	A A A	Ağırlık (Kg/m) Weight (Kg/m) الوزن (كجم/متر)
GGD-A 20100 I	810301605521050	160	5.344
GGD-A 20200 I	810302505521050	250	5.344
GGD-A 20300 I	810303155521050	315	6.617
GGD-A 20400 I	810304005521050	400	6.617

GGD-C			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	A A A	Ağırlık (Kg/m) Weight (Kg/m) الوزن (كجم/متر)
GGD-C 20100 I	820301605511051	160	10.860
GGD-C 20200 I	820302505511051	250	10.860
GGD-C 20300 I	820303155511051	315	10.860
GGD-C 20400 I	820304005511051	400	10.860
GGD-C 20500 I	820305005511051	500	13.720
GGD-C 20400 I	820306305511051	630	13.720
GGD-C 20800 I	820308005511051	800	19.500

Min X = 400 mm  
Max X = 3999 mm

Siparişinizde X,Y boyunu belirtiniz.

Please inform X,Y length when ordering.

برجاء ذكر الطول X,Y عند الطلب

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

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

العنصر القياسي هو IP50. برجاء ذكر اكسسوارات IP55 عند تقديم طلب الشراء

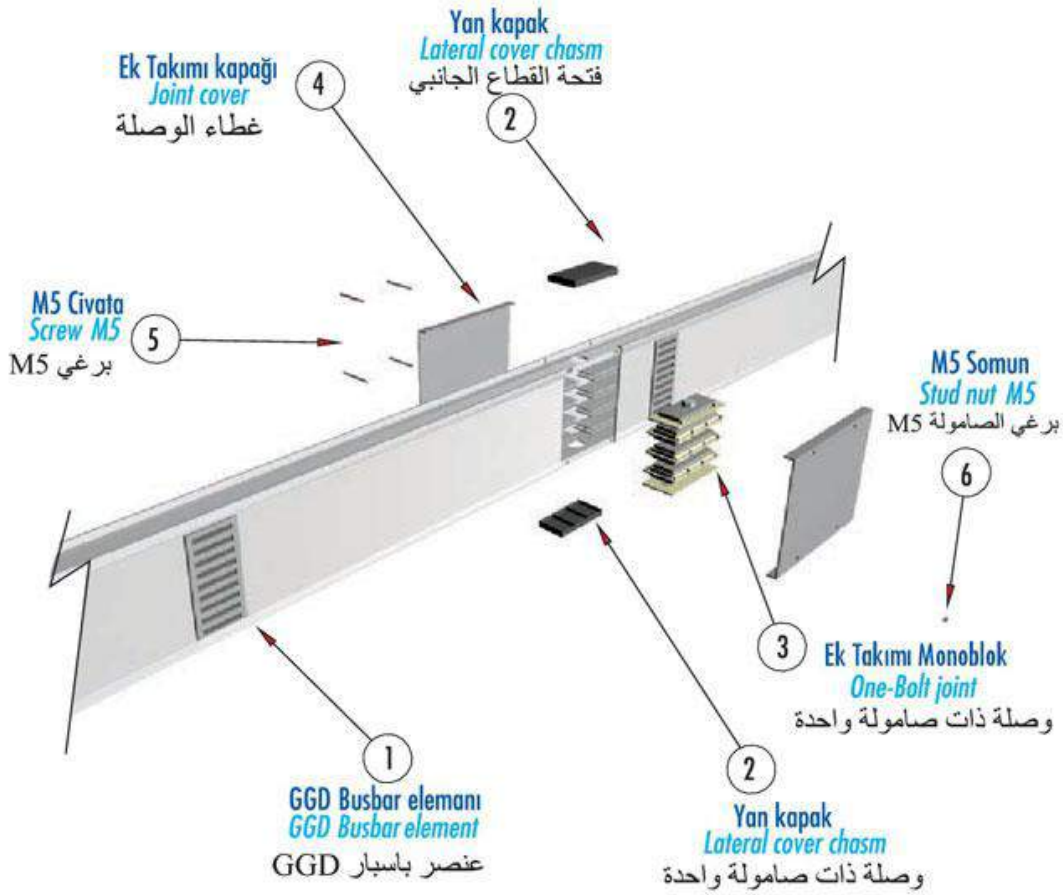
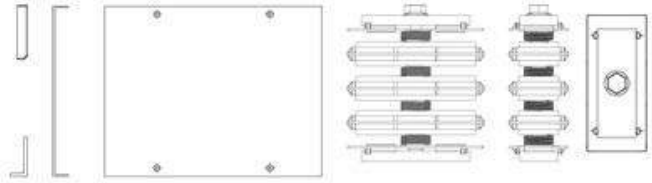




EK TAKIMI 3P+N+1/2 PE One-Bolt Joint Set 3P+N+1/2 PE مجموع ربط ذات صامولة واحدة



Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم / الوحدة)
GGD-A 6135	810404005520050	160-400	2,100
GGD-C 6135	820404005510051	160-800	4,100





90°YATAY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE 90° Horizontal Elbow Element (Right) 3P+N+1/2 PE (عنصر كوع أفقي 90 درجة (يمين)

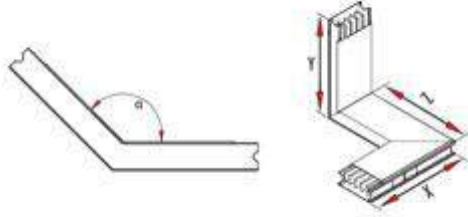


GGD-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-A 200 102	81 120 400 55200 50	160-400	6,860

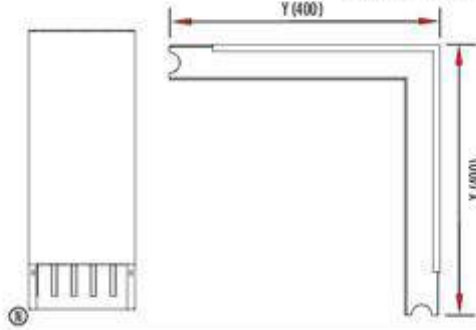
GGD-C

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-C 200 102	82 120 400 55100 51	160-800	15,212



Siparişinizde özel açılı veya dikey + yatay kombinasyonları için isteğinizi bildiriniz.  
Please inform your request for special angle or vertical + horizontal elbow combinations.  
الرجاء ذكر طلباتكم عن مجاميع الافقية + العمودية او الزوايا الخاصة للطلبات

X - Min-400mm, Max-800mm  
Y - Min-400mm, Max-800mm



90°YATAY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE 90° Horizontal Elbow Element (Left) 3P+N+1/2 PE (عنصر كوع أفقي 90 درجة (يسار)

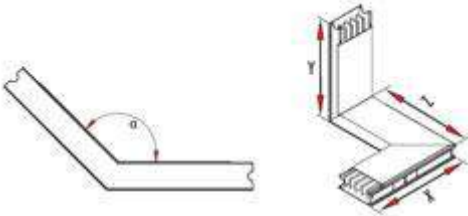


GGD-A 5

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-A 200 101	81 110 400 55200 50	160-400	6,860

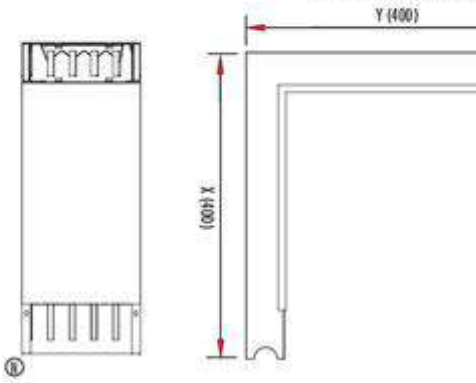
GGD-C 5

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-C 200 101	82 110 400 55100 51	160-800	15,212



Siparişinizde özel açılı veya dikey + yatay kombinasyonları için isteğinizi bildiriniz.  
Please inform your request for special angle or vertical + horizontal elbow combinations.  
الرجاء ذكر طلباتكم عن مجاميع الافقية + العمودية او الزوايا الخاصة للطلبات

X - Min-400mm, Max-800mm  
Y - Min-400mm, Max-800mm



## ORTA GÜÇ BUSBAR KANAL SİSTEMLERİ

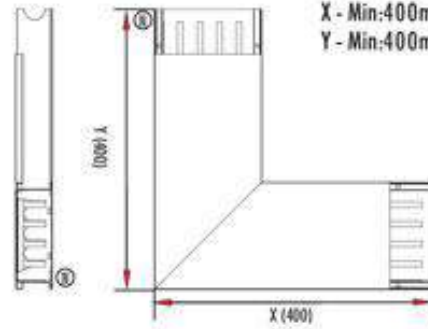
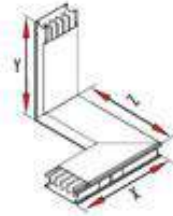


## Medium Power Busbar Trunking Systems انظمة البسبار للقوة المتوسطة

### 90° DIKEY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE 90° Vertical Elbow Element (Right) 3P+N+1/2 PE عنصر كوع أفقي 90 درجة (يسار)



GGD-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/mt) الوزن (كجم المتر)
GGD-A 200104	81140405520050	160-400	6,470
GGD-C			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/mt) الوزن (كجم المتر)
GGD-C 200104	82140405510051	160-800	13,921



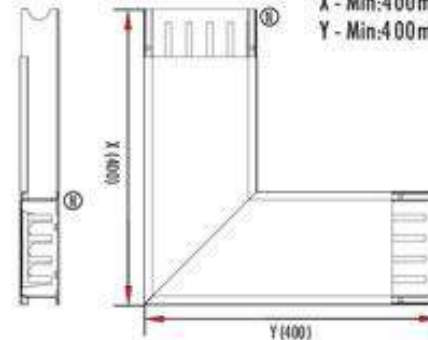
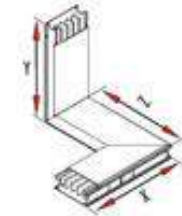
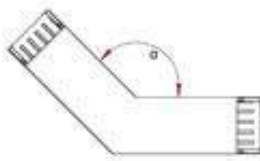
X - Min:400mm, Max:800mm  
Y - Min:400mm, Max:800mm

Siparişinizde özel açılı veya dikey + yatay kombinasyonları için isteğinizi bildiriniz.  
Please inform your request for special angle or vertical + horizontal elbow combinations.  
الرجاء ذكر طلباتكم عن مجاميع الافقية + العمودية او الزوايا الخاصة للمطلبات

### 90° DIKEY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE 90° Vertical Elbow Element (Left) 3P+N+1/2 PE عنصر كوع رأسي 90 درجة (يسار)



GGDA			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/mt) الوزن (كجم المتر)
GGD-A 200103	811304005520050	160-400	6,470
GGDC			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/mt) الوزن (كجم المتر)
GGD-C 200103	821304005510051	160-800	13,921



X - Min:400mm, Max:800mm  
Y - Min:400mm, Max:800mm

Siparişinizde özel açılı veya dikey + yatay kombinasyonları için isteğinizi bildiriniz.  
Please inform your request for special angle or vertical + horizontal elbow combinations.  
الرجاء ذكر طلباتكم عن مجاميع الافقية + العمودية او الزوايا الخاصة للمطلبات



T ELEMANI (SAĞ) 3P+N+1/2 PE T Element (Right) 3P+N+1/2 PE عنصر على شكل T (يمين)

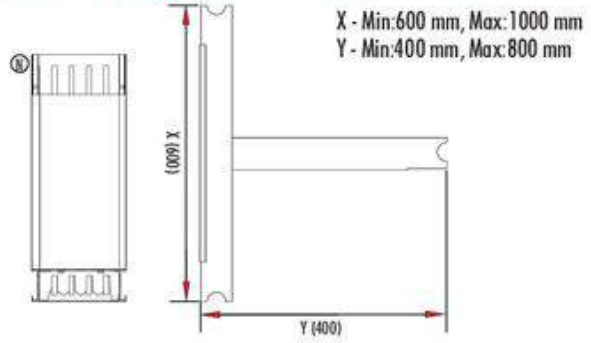
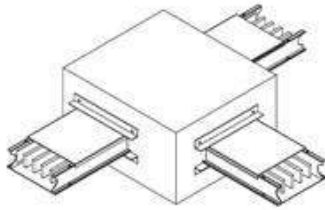


GGD-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ada) Weight (Kg/unit) الوزن (كجم/الوحدة)
GGD-A 200 111	8116040055200 50	160-400	7,970

GGD-C

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ada) Weight (Kg/unit) الوزن (كجم/الوحدة)
GGD-C 200 111	8216040055100 51	160-800	18,093



T ELEMANI (SOL) 3P+N+1/2 PE T Element (Left) 3P+N+1/2 PE عنصر على شكل T (يسار)

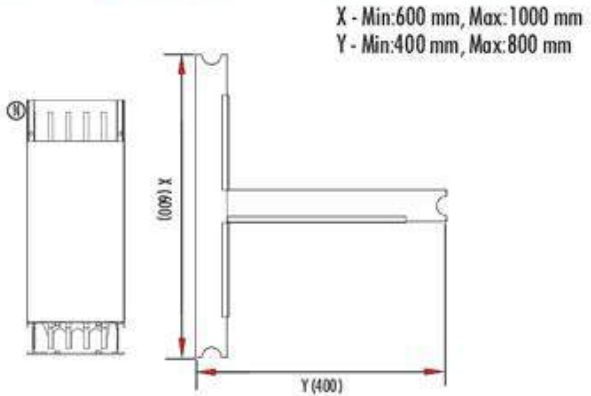
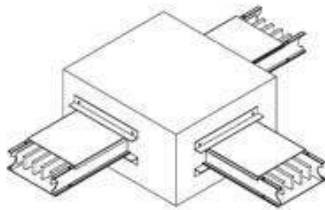


GGD-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ada) Weight (Kg/unit) الوزن (كجم/الوحدة)
GGD-A 200 109	8115040055200 50	160-400	7,970

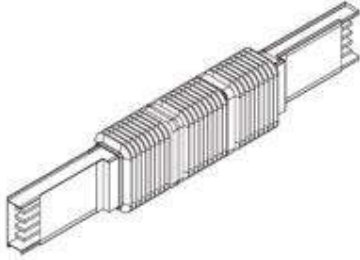
GGD-C

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ada) Weight (Kg/unit) الوزن (كجم/الوحدة)
GGD-C 200 109	8215040055100 51	160-800	18,093





MEKANİK DİLATASYON ELEMANI 3P+N+1/2 PE Mechanical Dilatation Element 3P+N+1/2 PE عنصر التوسيع الميكانيكي

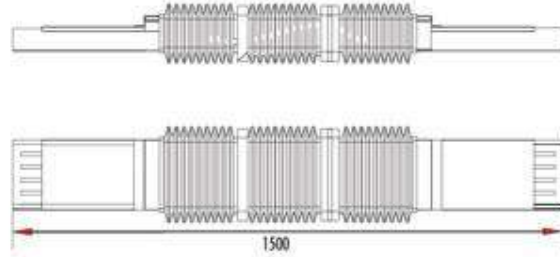


GGD-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم / الوحدة)
GGD-A 204009	813104005520050	160-400	25,269

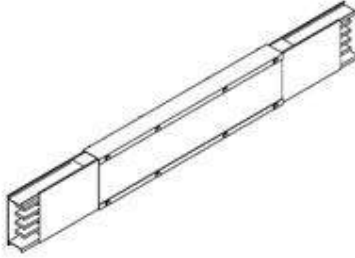
GGD-C			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم / الوحدة)
GGD-C 204009	823104005510051	160-800	42,734

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

يجب دمج عنصر وصلة التمديد في خط الطول المستقيم كل 40 أو عندما يتم توسعة المبنى



YATAY DİLATASYON ELEMANI 3P+N+1/2 PE Horizontal Expansion Element 3P+N+1/2 PE عنصر التمديد الأفقي



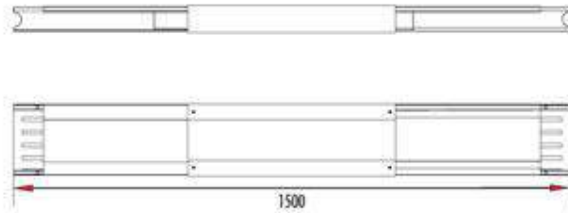
GGDA			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم / الوحدة)
GGD-A 204011	813104005520052	160-400	23,850

GGDC			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم / الوحدة)
GGD-C 204011	823104005510053	160-800	41,315

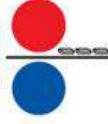
Genleşme elemanı, her 40 mt. de bir uygulanır.

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

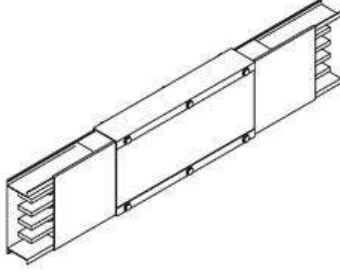
يجب دمج عنصر وصلة التمديد في خط الطول المستقيم كل 40 أو عندما يتم توسعة المبنى



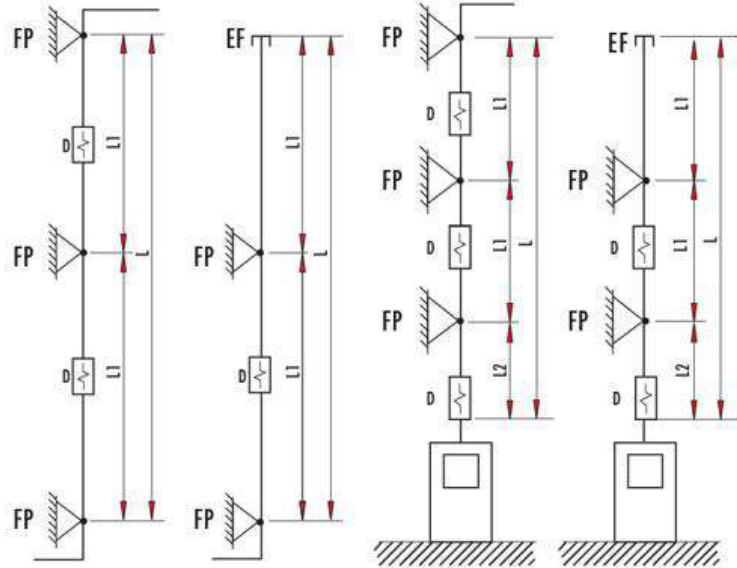
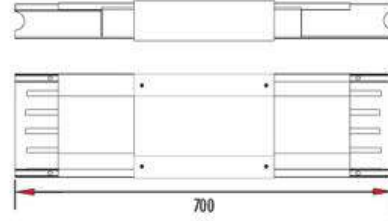




DİKEY DILATASYON ELEMANI 3P+N+1/2 PE Vertical Expansion Element 3P+N+1/2 PE عنصر التمديد الرأسي



GGD-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم /الوحدة)
GGD-A 204010	813104005520051	160-400	7,309
GGD-C			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم /الوحدة)
GGD-C 204010	823104005510052	160-800	17,335



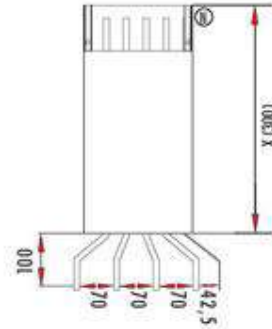
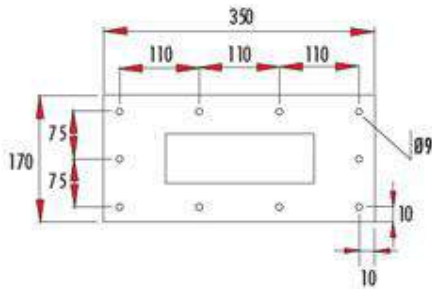


PANO ÜSTÜ MODÜLÜ (SAĞ) 3P+N+1/2 PE Switchboard Feed Unit (Right) 3P+N+1/2 PE لوحة مفاتيح وحدة التغذية (يمين)



GGD-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-A 200030	811804005520050	160-400	6,745
GGD-C			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-C 200030	821804005510051	160-800	11,607

Y - Min:300 mm, Max:700 mm

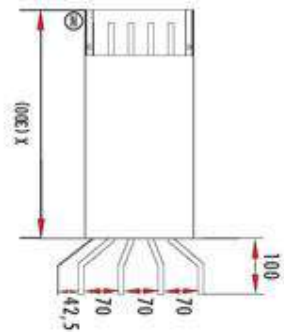
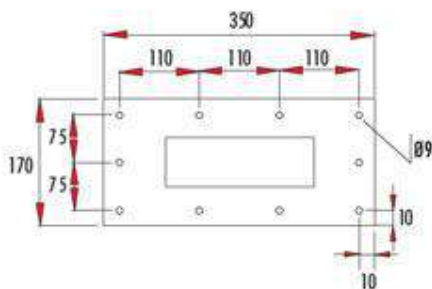


PANO ÜSTÜ MODÜLÜ (SOL) 3P+N+1/2 PE Switchboard Feed Unit (Left) 3P+N+1/2 PE لوحة مفاتيح وحدة التغذية (يسار)



GGD-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-A 200032	811704005520050	160-400	6,745
GGD-C			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-C 200032	821704005510051	160-800	11,607

Y - Min:300 mm, Max:700 mm





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



GGDA

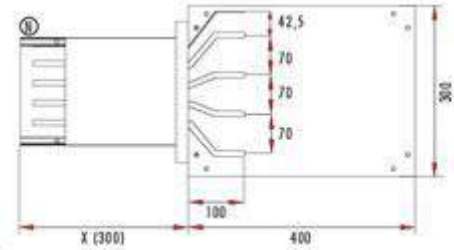
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-A 200021	812004005520050	160-400	11,151

GGDC

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-C 200021	822004005510051	160-800	15,877



X - Min:300 mm, Max:700 mm



Şalter montajlı üretim için siparişte bilgi veriniz.  
It is available to use with circuit breaker. Please inform this when ordering.  
متوفر أيضا استخدام قاطعات الدائرة ، يرجى ذكرها عند الطلب

Besleme kutularının rekorları için lütfen kablo kesiti bildiriniz.  
Please specify cable dimensions for feed unit box's cable glands.  
يرجى تحديد أبعاد الكابل لمسامات كابلات صندوق وحدات التغذية



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

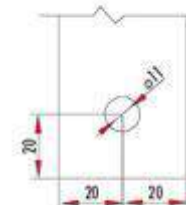


GGDA

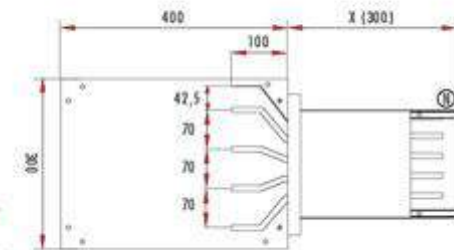
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-A 200020	811904005520050	160-400	11,151

GGDC

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-C 200020	821904005510051	160-800	15,877



X - Min:300 mm, Max:700 mm



Şalter montajlı üretim için siparişte bilgi veriniz.  
It is available to use with circuit breaker. Please inform this when ordering.  
متوفر أيضا استخدام قاطعات الدائرة ، يرجى ذكرها عند الطلب

Besleme kutularının rekorları için lütfen kablo kesiti bildiriniz.  
Please specify cable dimensions for feed unit box's cable glands.  
يرجى تحديد أبعاد الكابل لمسامات كابلات صندوق وحدات التغذية



## ORTA GÜÇ BUSBAR KANAL SİSTEMLERİ



Medium Power Busbar Trunking Systems  
انظمة البسبار للقوة المتوسطة

ORTADAN BESLEME ELEMANI 3P+N+1/2 PE Centre Feed Unit 3P+N+1/2 PE (وحدة التغذية (المركز)



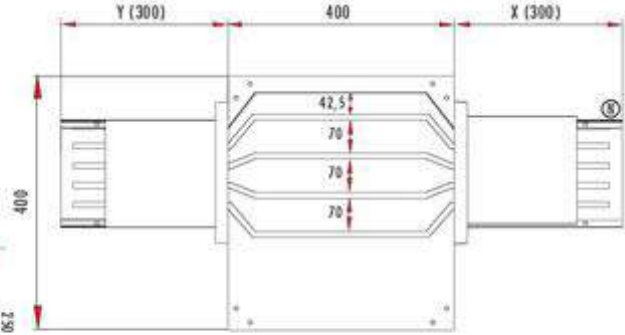
GGDA			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-A 200024	812104005520050	160-400	18,594

GGDC			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-C 200024	822104005510051	160-800	29,947

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

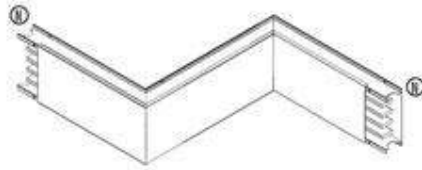
Şalter montajlı üretim için siparişte bilgi veriniz.  
It is available to use with circuit breaker. Please inform this when ordering.  
متوفر أيضا استخدام قاطعات الدائرة، يرجى ذكرها عند الطلب

Besleme kutularının rekorları için lütfen kablo kesiti bildiriniz.  
Please specify cable dimensions for feed unit box's cable glands.  
يرجى تحديد أبعاد الكابل لمسامات كابلات صندوق وحدات التغذية



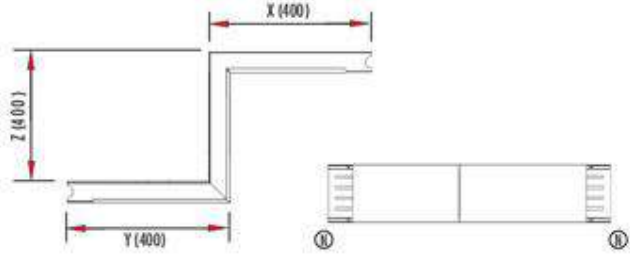


90° YATAY OFSET ELEMANI (SAĞ) 3P+N+1/2 PE 90° Horizontal Offset Element (Right) 3P+N+1/2 PE عنصر التوازن الأفقي (يمين) 90 درجة



GGD-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-A 200124	812704005520050	160-400	9,420

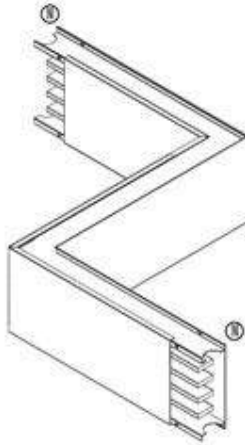
GGD-C			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-C 200124	822708005510051	160-800	20,503



Siparişle 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.

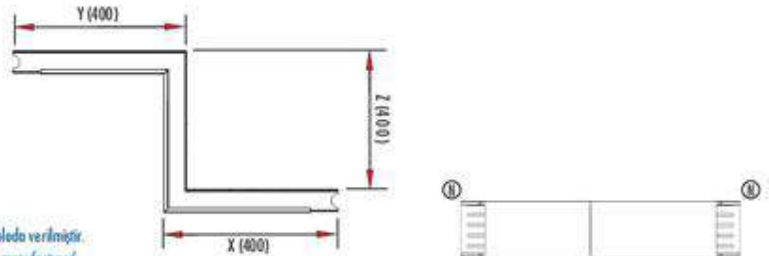
طول التصنيع القياسية مبنية في الجدول. يمكن تصنيع طول حسب الطلب. يرجى ذكر الأبعاد X, Y, Z عند الطلب.

90° YATAY OFSET ELEMANI (SOL) 3P+N+1/2 PE 90° Horizontal Offset Element (Left) 3P+N+1/2 PE عنصر التوازن الأفقي (يسار) 90 درجة



GGD-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-A 200123	812704005520051	160-400	9,420

GGD-C			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-C 200123	822708005510052	160-800	20,503



Siparişle 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.

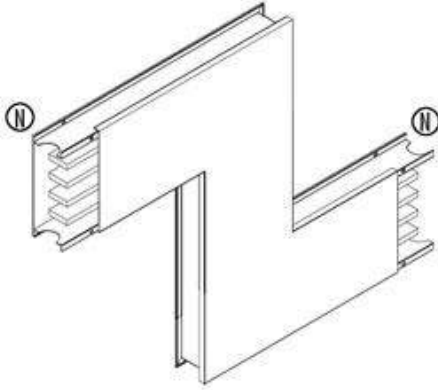
طول التصنيع القياسية مبنية في الجدول. يمكن تصنيع طول حسب الطلب. يرجى ذكر الأبعاد X, Y, Z عند الطلب.

## ORTA GÜÇ BUSBAR KANAL SİSTEMLERİ



Medium Power Busbar Trunking Systems  
انظمة البسبار للقوة المتوسطة

90° DİKEY OFSET ELEMANI (SAĞ) 3P+N+1/2 PE 90° Vertical Offset Element (Right) 3P+N+1/2 PE عاصر التوازن الرأسي (يمين) 90 درجة

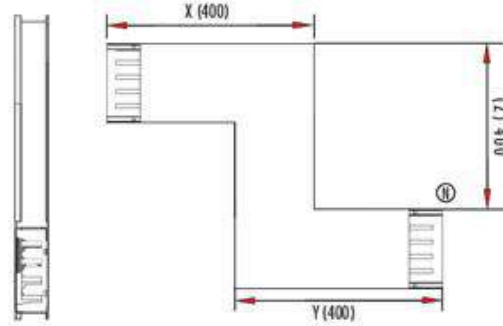


Siparişle X,Y,Z ölçülerini mm cinsinden veriniz. X,Y,Z standart modeller için tabloda verilmiştir.  
Standard manufacturing length is given at the table. Requested lengths can be manufactured.  
Please inform the length X,Y,Z when ordering.

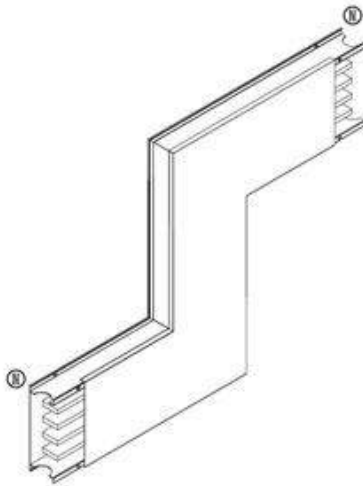
طوال التصنيع القياسية مبنية في الجدول. يمكن تصنيع طول حسب الطلب. يرجى ذكر الأبعاد X, Y, Z عند الطلب.

GGD-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-A 200126	812 80 400 55200 50	160-400	9,468

GGD-C			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-C 200126	82280 800 55100 51	160-800	20,071



90° DİKEY OFSET ELEMANI (SOL) 3P+N+1/2 PE 90° Vertical Offset Element (Left) 3P+N+1/2 PE عاصر التوازن الرأسي (يسار) 90 درجة

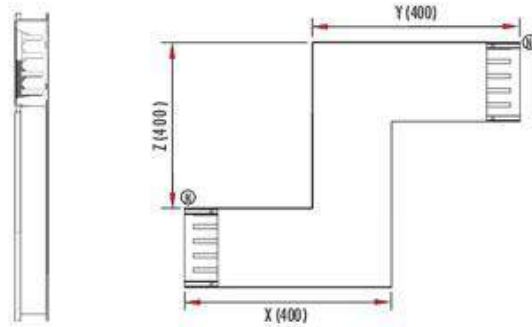


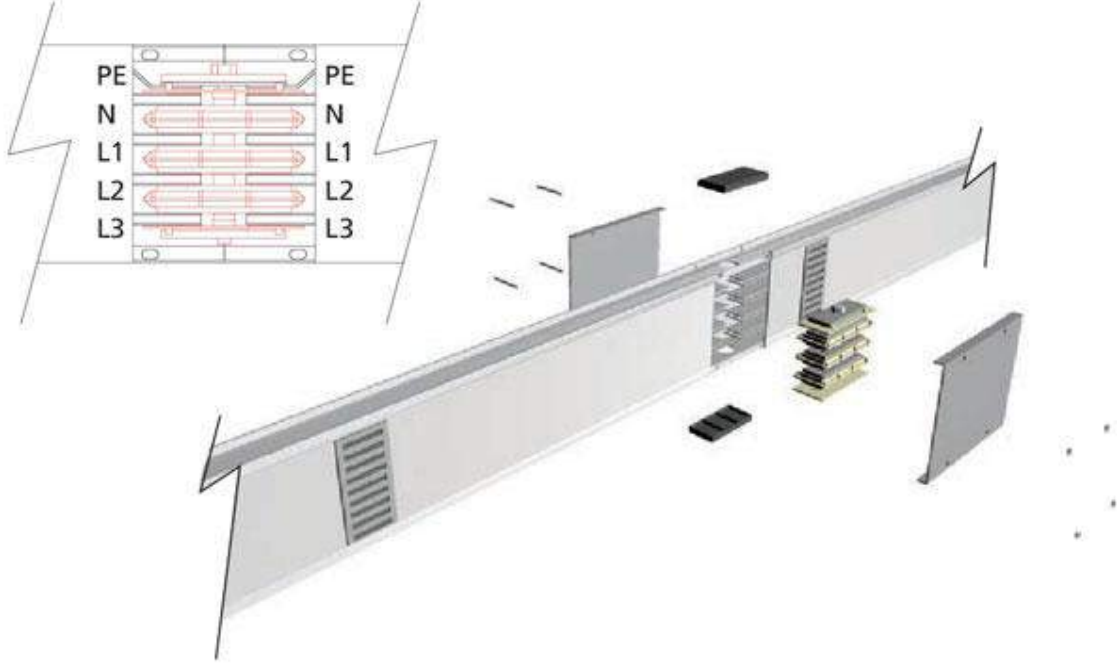
Siparişle X,Y,Z ölçülerini mm cinsinden veriniz. X,Y,Z standart modeller için tabloda verilmiştir.  
Standard manufacturing length is given at the table. Requested lengths can be manufactured.  
Please inform the length X,Y,Z when ordering.

طوال التصنيع القياسية مبنية في الجدول. يمكن تصنيع طول حسب الطلب. يرجى ذكر الأبعاد X, Y, Z عند الطلب.

GGD-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-A 200125	81280 400 55200 51	160-400	9,468

GGD-C			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-C 200125	822 80 800 55100 52	160-800	20,071





1) Ek eleman yan plastiklerini monte ediniz.  
1) Assemble side covers of joint points.  
أغطية تجميع جانبية لنقاط الوصلات



2) Monoblok ek elemanı işlem için hazırlayınız.  
2) Prepare the monoblock joint element to install.  
تحضير وصلة القطعة الواحدة للتركيب

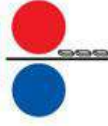


3) Ek elemanı civatasını, tork anahtarı ile belirtilen değerde sıkınız.  
3) Tighten joint elements screw with torque wrench according to specified value.  
إحكام برغي عناصر الوصلات بربط حلقة الإحكام وفقاً للقيمة المحددة



4) Arka ve ön ek kapaklarının vida ve somunlarını takınız ve sıkınız.  
4) Assemble screws and nuts of joint covers and tighten.  
براغي ووصلات التجميع لأغطية التوصيل والإحكام

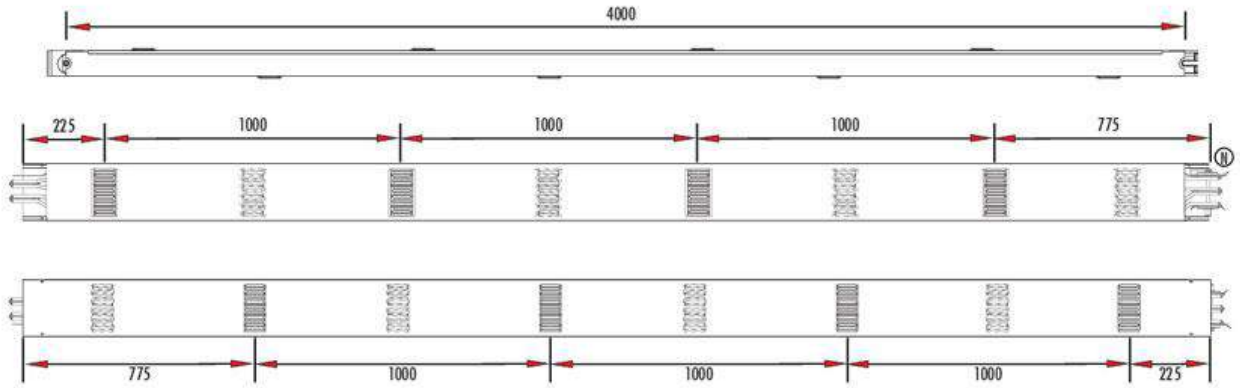
GGDA 160-400A : 30Nm  
GGDC 160-800A : 60Nm



STANDART BOY ELEMAN 3P+N+1/2 PE Standard Length Element 3P+N+1/2 Pe عنصر الطول القياسي



GGD-A				
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	L mm MM	Ağırlık (Kg/mt.) Weight (Kg/mt) الوزن (كجم/متر)
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 isteginizi bildiriniz.  
\* Standard element is IP50. Please inform the accessories for IP55 when ordering.  
العنصر القياسي هو IP50. برجاء ذكر اكسسوارات IP55 عند تقديم طلب الشراء



## ORTA GÜÇ BUSBAR KANAL SİSTEMLERİ



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انظمة البسبار للقوة المتوسطة

ARABOY ELEMAN 3P+N+1/2 PE Non-Standard Length Element 3P+N+1/2 Pe عنصر الطول الغير قياسي



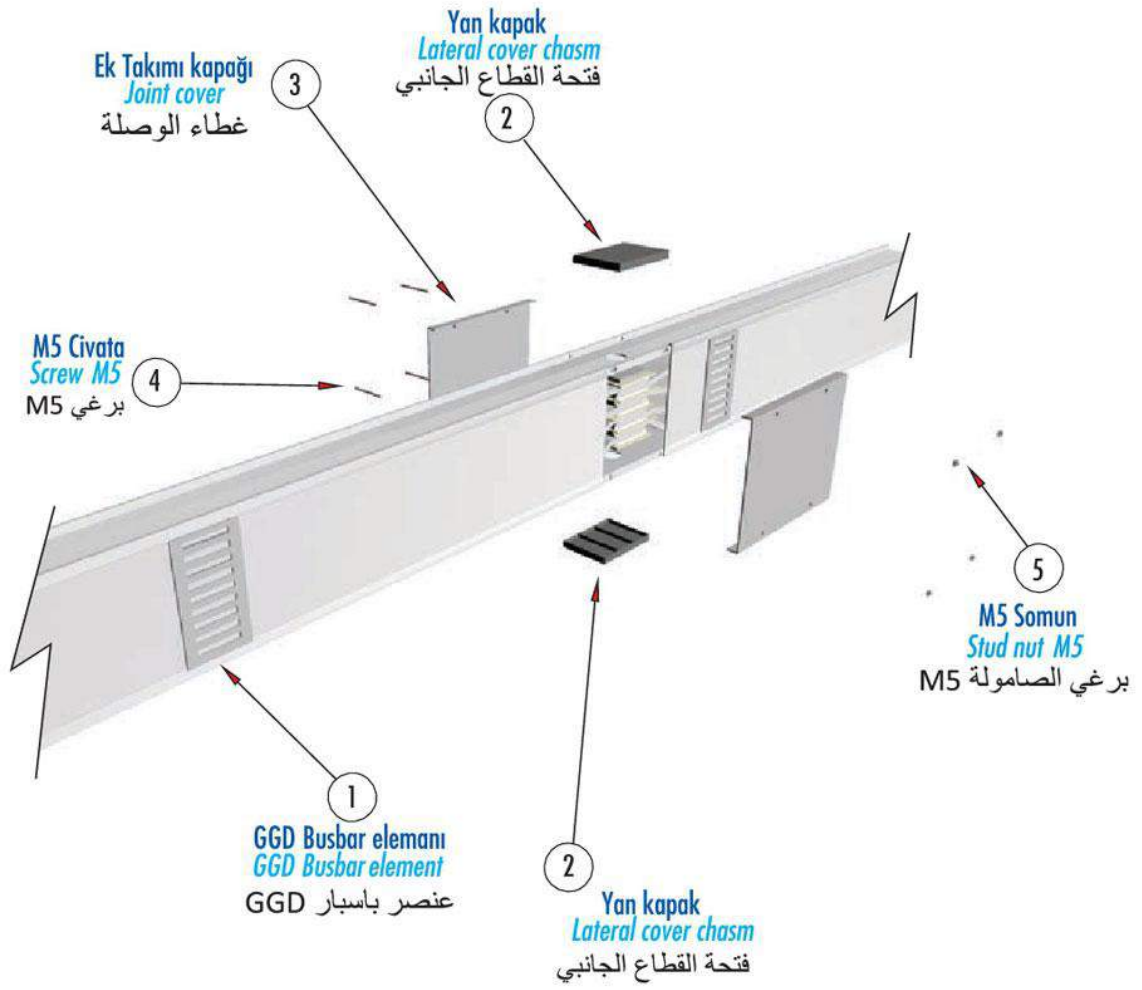
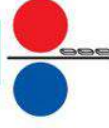
GGD-A			
Siparis kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/m) Weight (Kg/m) الوزن (كجم/متر)
GGD-A 20500 1	8 10 305005 52 1050	500	11.950
GGD-A 20600 1	8 10 306305 52 1050	630	12.050
GGD-A 20800 1	8 10 308005 52 1050	800	13.160
GGD-A 21000 1	8 10 310005 52 1050	1000	14.400

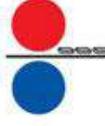
Min X = 400 mm  
Max X = 3999 mm

Siparişinizde X,Y boyunu belirtiniz.  
Please inform X,Y length when ordering.  
برجاء ذكر الطول X,Y عند الطلب

\* Standart elemanlar IP 50 Korumaya sahiptir. IP55 Koruma için aksesuar isteginizi bildiriniz.  
\* Standard element is IP50. Please inform the accessories for IP55 when ordering.  
العنصر القياسي هو IP50. برجاء ذكر اكسسوارات IP55 عند تقديم طلب الشراء







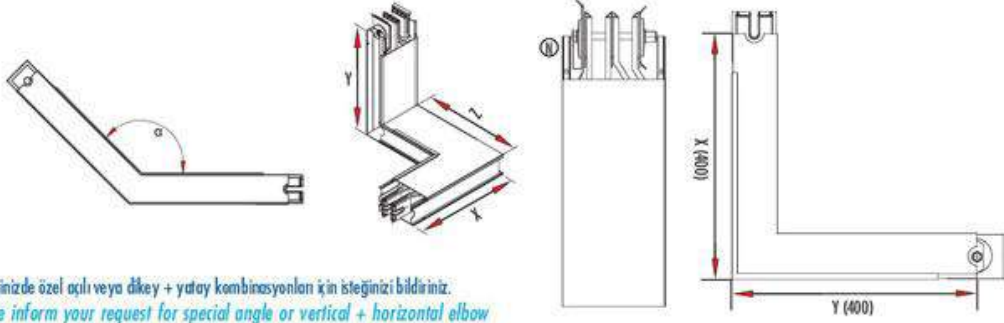
90°YATAY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE 90° Horizontal Elbow Element (Right) 3P+N+1/2 PE (يمين) 90 درجة أفقي (يمين)



GGD-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-A 200106	8112080055200 50	500-1000	12,658

X - Min:400 mm, Max:800 mm  
Y - Min:400 mm, Max:800 mm



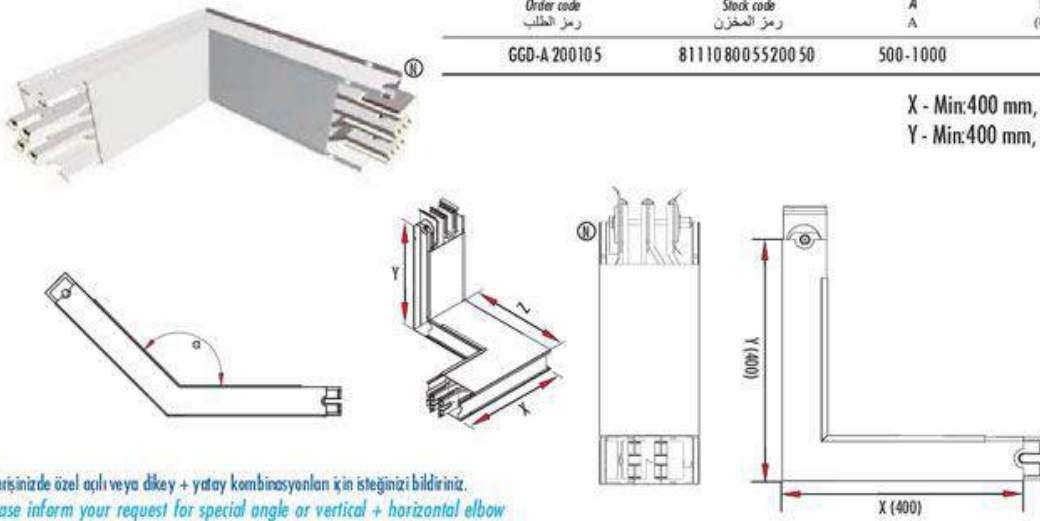
Siparişinizde özel açılı veya dikey + yatay kombinasyonları için isteğinizi bildiriniz.  
Please inform your request for special angle or vertical + horizontal elbow combinations.  
الرجاء ذكر طلباتكم عن مجاميع الافقية + العمودية او الزوايا الخاصة للتطبيقات

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

GGDA

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-A 200105	8111080055200 50	500-1000	12,658

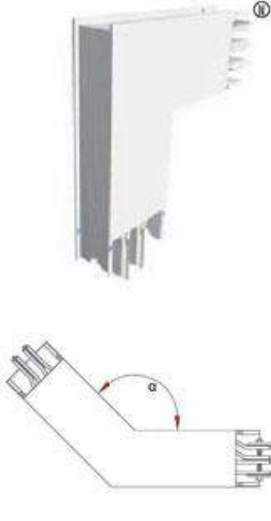
X - Min:400 mm, Max:800 mm  
Y - Min:400 mm, Max:800 mm



Siparişinizde özel açılı veya dikey + yatay kombinasyonları için isteğinizi bildiriniz.  
Please inform your request for special angle or vertical + horizontal elbow combinations.  
الرجاء ذكر طلباتكم عن مجاميع الافقية + العمودية او الزوايا الخاصة للتطبيقات



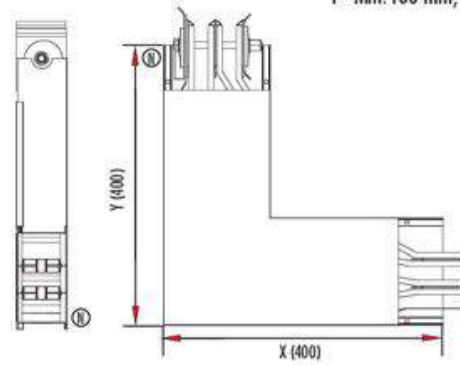
### 90° DİKEY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE 90° Vertical Elbow Element (Right) 3P+N+1/2 PE عنصر كوع رأسي 90 درجة (يمين)



#### GGD-A

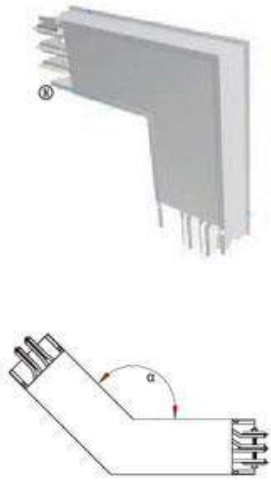
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-A 200108	81140800 5520050	500-1000	12,347

X - Min:400 mm, Max:800 mm  
Y - Min:400 mm, Max:800 mm



Siparişinizde özel açılı veya dikey + yatay kombinasyonları için isteğinizi bildiriniz.  
Please inform your request for special angle or vertical + horizontal elbow combinations.  
الرجاء ذكر طلباتكم عن مجاميع الافقية + العمودية او الزوايا الخاصة للتطبيقات

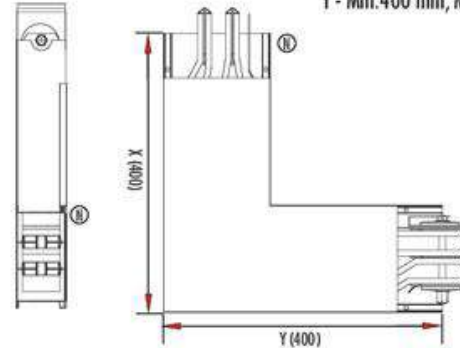
### 90° DİKEY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE 90° Vertical Elbow Element (Left) 3P+N+1/2 PE عنصر كوع رأسي 90 درجة (يسار)



#### GGD-A

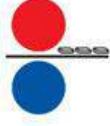
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-A 200107	81130800 5520050	500-1000	12,347

X - Min:400 mm, Max:800 mm  
Y - Min:400 mm, Max:800 mm



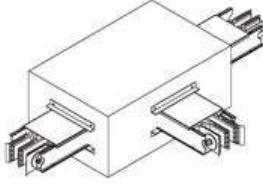
Siparişinizde özel açılı veya dikey + yatay kombinasyonları için isteğinizi bildiriniz.  
Please inform your request for special angle or vertical + horizontal elbow combinations.  
الرجاء ذكر طلباتكم عن مجاميع الافقية + العمودية او الزوايا الخاصة للتطبيقات

# ORTA GÜÇ BUSBAR KANAL SİSTEMLERİ



Medium Power Busbar Trunking Systems  
انظمة البسبار للقوة المتوسطة

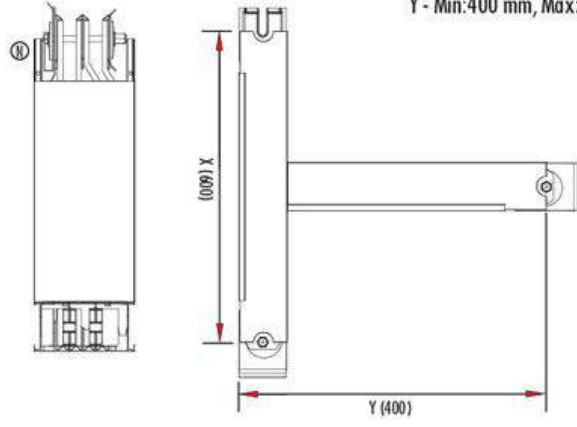
T ELEMANI (SAĞ) 3P+N+1/2 PE T Element (Right) 3P+N+1/2 PE عنصر على شكل T (يمين)



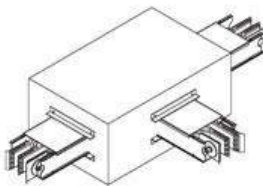
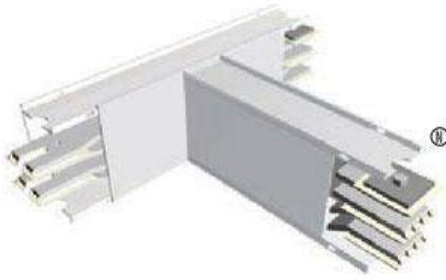
## GGDA

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ed) Weight (Kg/unit) الوزن (كجم / الوحدة)
GGD-A 200112	811608005520050	500-1000	17,891

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



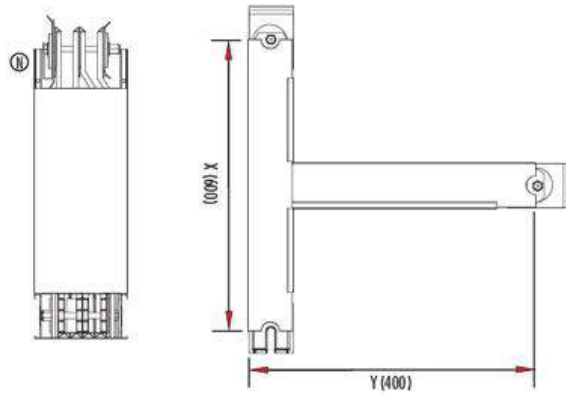
T ELEMANI (SOL) 3P+N+1/2 PE T Element (Left) 3P+N+1/2 PE عنصر على شكل T (يسار)



## GGDA

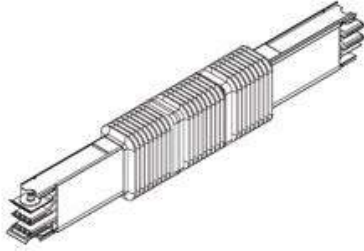
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ed) Weight (Kg/unit) الوزن (كجم / الوحدة)
GGD-A 200110	811508005520050	500-1000	17,891

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





### MEKANİK DİLASYON ELEMANI 3P+N+1/2 PE Mechanical Dilatation Element 3P+N+1/2 PE عنصر التوسيع الميكانيكي

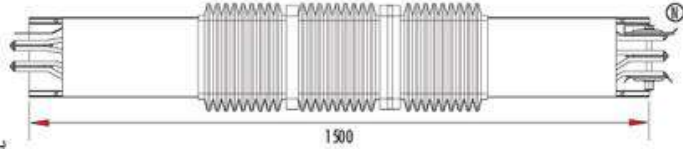
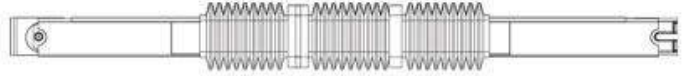


Genleşme elemanı, binalardaki yapı genleşme noktalarında uygulanır.

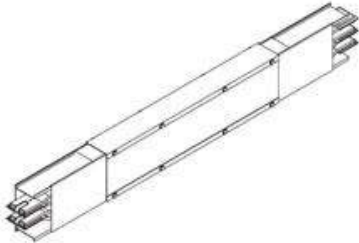
*The expansion joint element must be inserted where there are structural expansion of the building.*

يجب دمج عنصر وصلة التمديد في خط الطول المستقيم كل 40 أو عندما يتم توسعة المبنى

GGD-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GGD-A 210009	81 31 1000 55200 50	500-1000	35,818



### YATAY DİLASYON ELEMANI 3P+N+1/2 PE Horizontal Expansion Element 3P+N+1/2 PE عنصر التمديد الأفقي

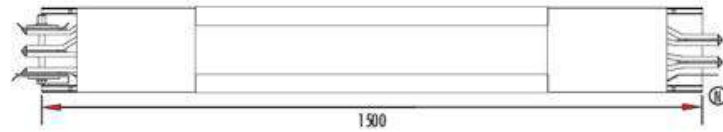


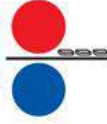
Genleşme elemanı, her 40 mt. de bir uygulanır.

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

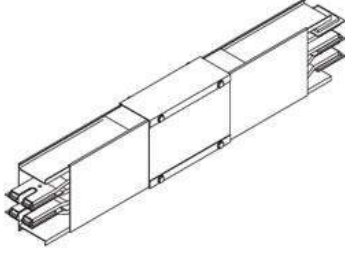
يجب دمج عنصر وصلة التمديد في خط الطول المستقيم كل 40 أو عندما يتم توسعة المبنى

GGD-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GGD-A 210011	81 31 1000 55200 52	500-1000	32,482

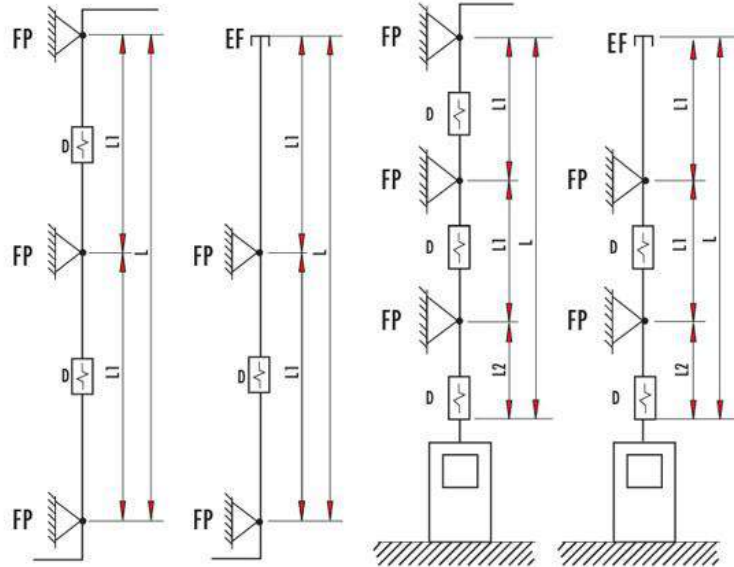
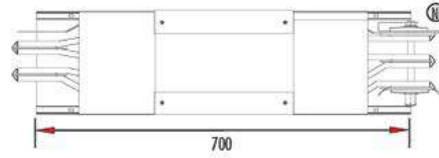


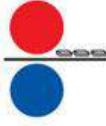


DIKEY DİLASYON ELEMANI 3P+N+1/2 PE Vertical Expansion Element 3P+N+1/2 PE عنصر التمديد الرأسي



GGD-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم/الوحدة)
GGD-A 210010	81 31100055200 51	500-1000	10,800



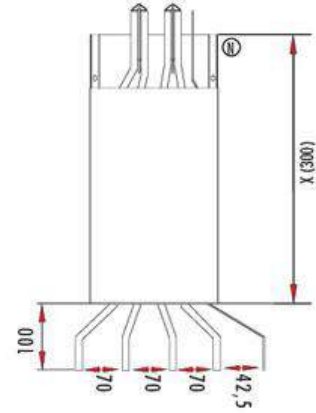
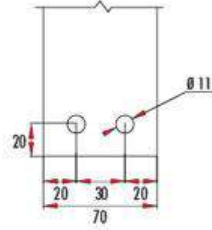
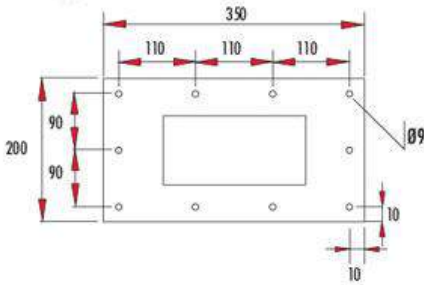


PANO ÜSTÜ MODÜLÜ (SAĞ) 3P+N+1/2 PE Switchboard Feed Unit (Right) 3P+N+1/2 PE لوحة مفاتيح وحدة التغذية (يمين)



GGD-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-A 200031	811808005520050	500-1000	11,025

X - Min:300 mm, Max:700 mm

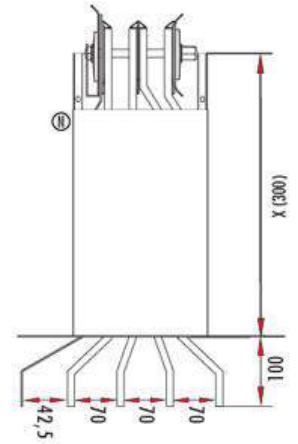
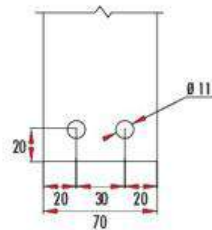
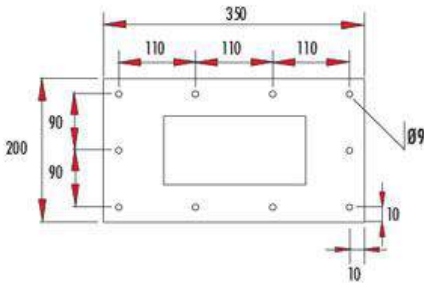


PANO ÜSTÜ MODÜLÜ (SOL) 3P+N+1/2 PE Switchboard Feed Unit (Left) 3P+N+1/2 PE لوحة مفاتيح وحدة التغذية (يسار)



GGD-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-A 200033	811708005520050	500-1000	11,850

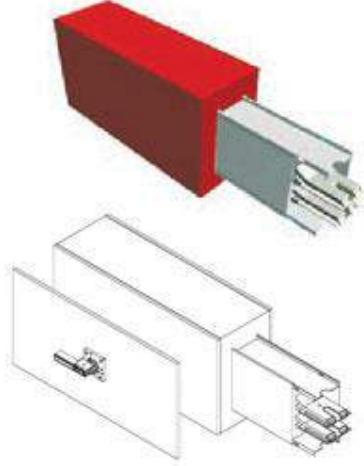
X - Min:300 mm, Max:700 mm





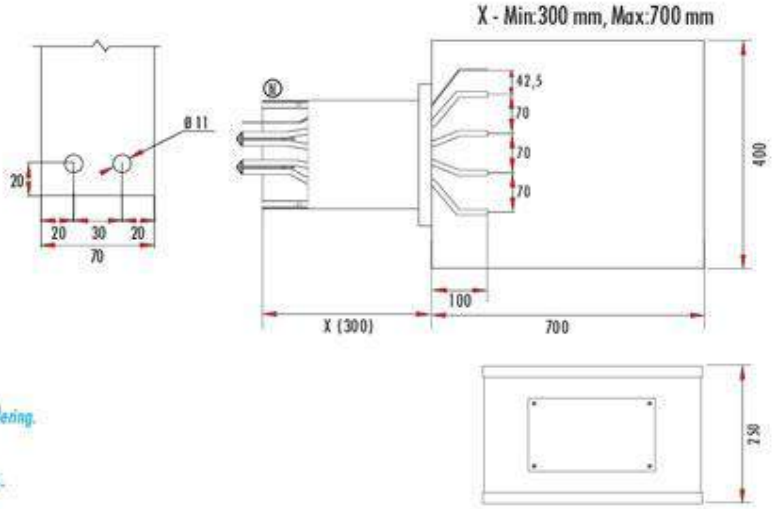


### BESLEME ELEMANI (SAĞ) 3P+N+1/2 PE Feed Unit (Right) 3P+N+1/2 PE وحدة التغذية (يمين)



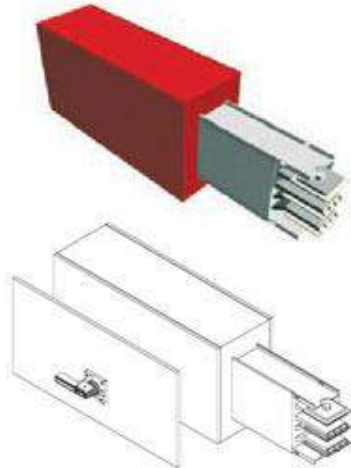
#### GGD-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم/الوحدة)
GGD-A 200023	8 12008005520050	500-1000	21,325



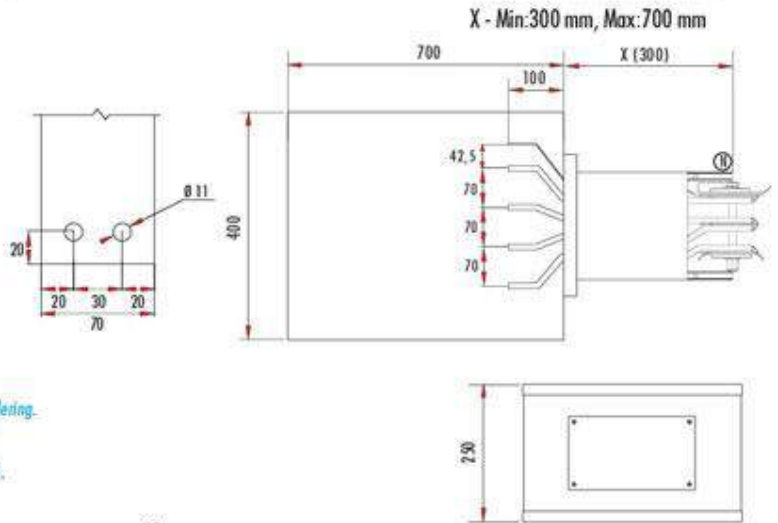
Şalter montajı üretim için siparişte bilgi veriniz.  
It is available to use with circuit breaker. Please inform this when ordering.  
متوفر أيضا استخدام قاطعات الدائرة ، يرجى ذكرها عند الطلب  
Besleme kutularının rekorları için lütfen kablo kesiti bildiriniz.  
Please specify cable dimensions for feed unit box's cable glands.  
يرجى تحديد أبعاد الكابل لصمامات كابلات صندوق وحدات التغذية

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



#### GGD-A

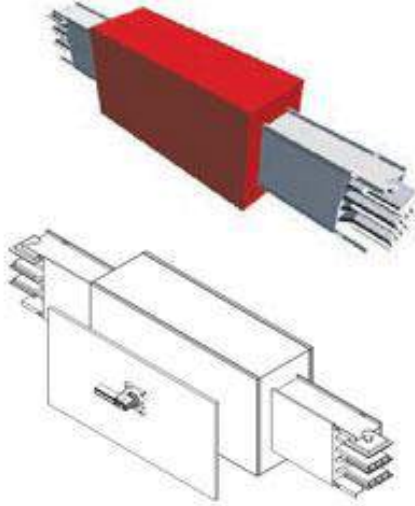
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم/الوحدة)
GGD-A 200022	8 11908005520050	500-1000	22,150



Şalter montajı üretim için siparişte bilgi veriniz.  
It is available to use with circuit breaker. Please inform this when ordering.  
متوفر أيضا استخدام قاطعات الدائرة ، يرجى ذكرها عند الطلب  
Besleme kutularının rekorları için lütfen kablo kesiti bildiriniz.  
Please specify cable dimensions for feed unit box's cable glands.  
يرجى تحديد أبعاد الكابل لصمامات كابلات صندوق وحدات التغذية

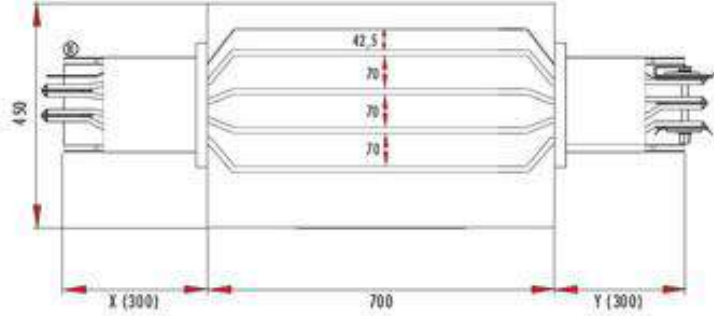


### ORTADAN BESLEME ELEMANI 3P+N+1/2 PE Centre Feed Unit 3P+N+1/2 PE (وحدة التغذية (المركز)



GGD-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ada) Weight (Kg/unit) الوزن (الكم الواحد)
GGD-A 200025	8 12 10800 55200 50	500-1000	32,871

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



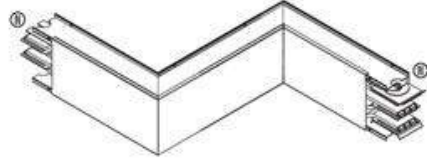
Şalter montajlı üretimi için siparişte bilgi veriniz.  
It is available to use with circuit breaker. Please inform this when ordering.  
متوفر أيضا استخدام قاطعات الدائرة ، يرجى ذكرها عند الطلب

Besleme kutularının rekarları için lütfen kablo kesiti bildiriniz.  
Please specify cable dimensions for feed unit box's cable glands.  
يرجى تحديد أبعاد الكابل لصمامات كابلات صندوق وحدات التغذية



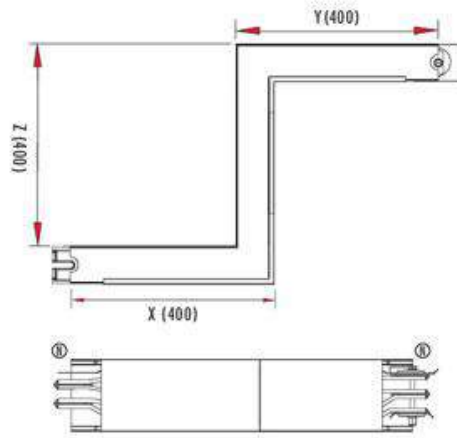


### 90° YATAY OFSET ELEMANI (SAĞ) 3P+N+1/2 PE 90° Horizontal Offset Element (Right) 3P+N+1/2 PE عنصر التوازن الأفقي (يمين) 90 درجة



#### GGD-A

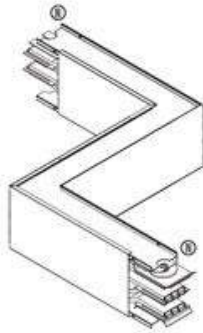
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-A 200128	812710005520050	500-1000	18,080



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.

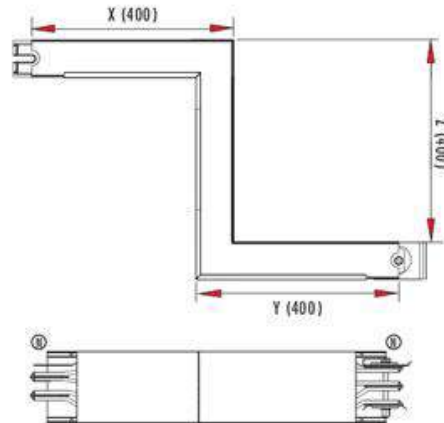
طوال التصنيع القياسية معينة في الجدول. يمكن تصنيع طول حسب الطلب. يرجى ذكر الأبعاد X, Y & Z عند الطلب.

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



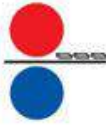
#### GGD-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD-A 200127	812710005520051	500-1000	18,080

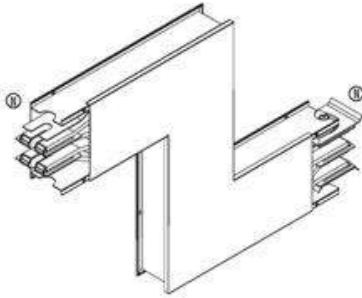


Siparişte X,Y,Z ölçülerini mm cinsinden veriniz. X,Y,Z standart modeller için tabloda verilmiştir. Standard manufacturing length is given at the table. Requested lengths can be manufactured. Please inform the length X,Y,Z when ordering.

طوال التصنيع القياسية معينة في الجدول. يمكن تصنيع طول حسب الطلب. يرجى ذكر الأبعاد X, Y & Z عند الطلب.

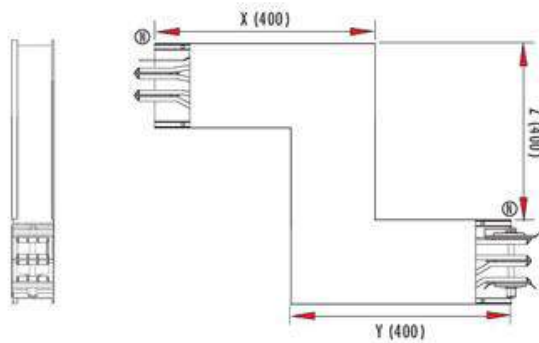


### 90° DIKEY OFSET ELEMANI (SAĞ) 3P+N+1/2 PE 90° Vertical Offset Element (Right) 3P+N+1/2 PE عنصر التوازن الرأسي (يمين) 90 درجة



#### GGD-A

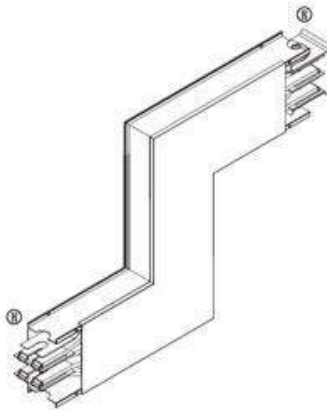
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم / الوحدة)
GGD-A 200130	812810005520050	500-1000	17,793



Siparişle 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.

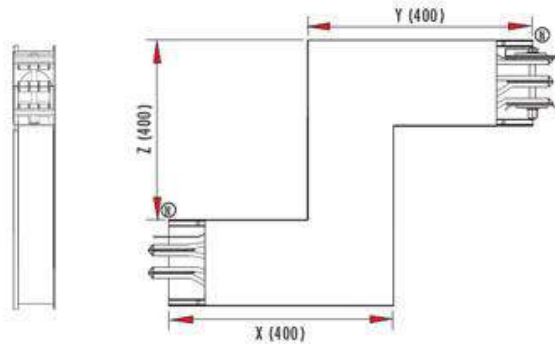
طوال التصنيع القياسية معينة في الجدول. يمكن تصنيع طول حسب الطلب. يرجى ذكر الأبعاد X, Y, Z عند الطلب.

### 90° DIKEY OFSET ELEMANI (SOL) 3P+N+1/2 PE 90° Vertical Offset Element (Left) 3P+N+1/2 PE عنصر التوازن الرأسي (يسار) 90 درجة



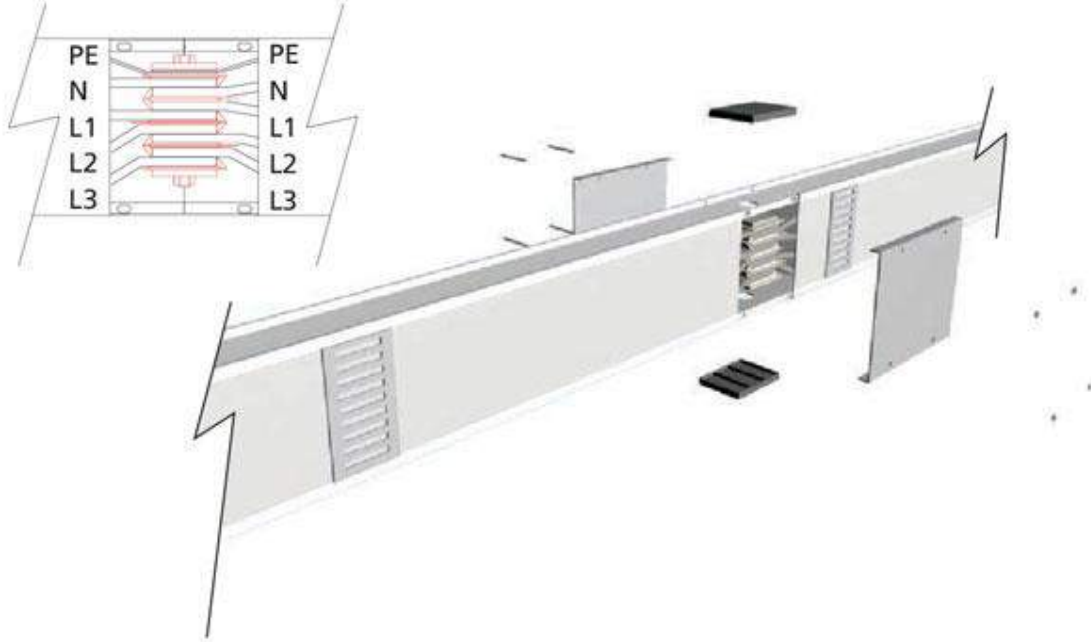
#### GGD-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم / الوحدة)
GGD-A 200129	812810005520051	500-1000	17,793



Siparişle 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.

طوال التصنيع القياسية معينة في الجدول. يمكن تصنيع طول حسب الطلب. يرجى ذكر الأبعاد X, Y, Z عند الطلب.



1) Busbar elemanları, ek noktalarını birleştirerek yerleştiriniz.  
1) Position Busbar elements with uniting joint points.  
أغطية تجميع جانبية لنقاط الوصلات



2) Ek eleman yan plastiklerini kanallara takınız.  
2) Install the side plastics to the joint points.  
تحضير وصلة القطعة الواحدة للتركيب

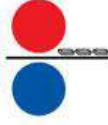


3) Ek elemanı civatasını, tork anahtarı ile belirtilen değerde sıkınız.  
3) Tighten joint elements screw with torque wrench according to specified value.  
إحكام برغي عناصر الوصلات بربط حلقة الإحكام  
وفقا للقيمة المحددة

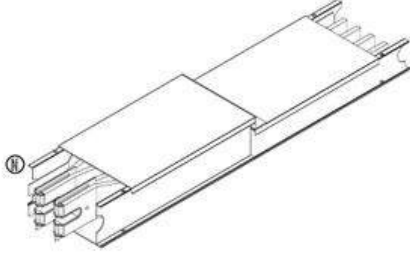
GGDA 500-1000A : 90Nm



4) Arka ve ön ek kapaklarının vida ve somunlarını takınız ve sıkınız.  
4) Assemble screws and nuts of joint covers and tighten.  
براغي ووصلات التجميع لأغطية التوصيل والإحكام

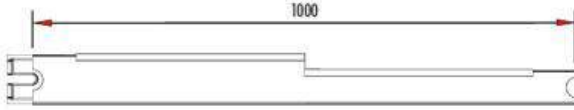
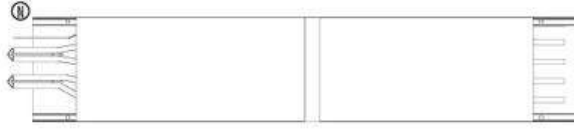


REDÜKSİYON ELEMANI 3P+N+1/2 PE Reduction Element 3P+N+1/2 PE عنصر التخفيض

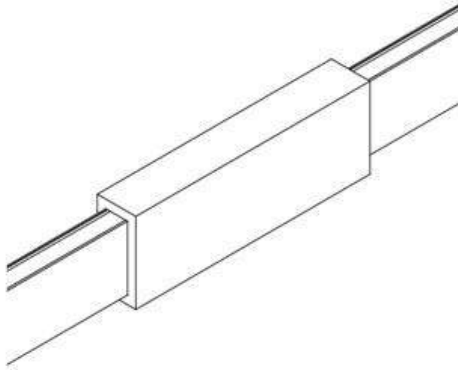


GGDA

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم / الوحدة)
GGD-A RED01	812904005520050	400-1000	11,748
GGD-A RED02	812910005520050	1000-400	11,748



YANGIN BARIYERİ 3P+N+1/2 PE Fire Barrier 3P+N+1/2 PE حواجز لحريق

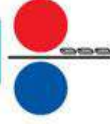


GGDA

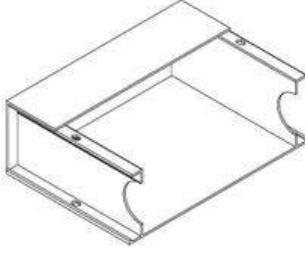
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم / الوحدة)
GGD-A 204006	812204005520050	160-400	9,000
GGD-A 210006	812210005520050	500-1000	9,000

GGDC

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم / الوحدة)
GGD-C 208006	822208005510051	160-800	9,000

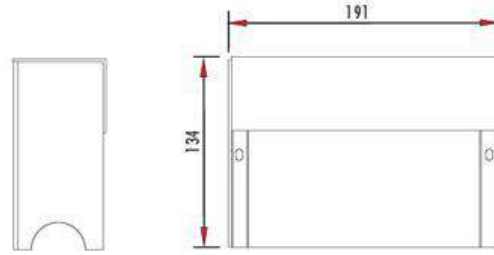


SONLANDIRMA ELEMANI End Cap غطاء الطرف



Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم / الوحدة)
GGD 100028	830704005520000	160-400	0,450
GGD 100029	830710005520000	500-1000	0,530

GGDC 160-800 A busbar için GGD 100028 sipariş kodlu sonlandırma elemanı kullanılır.  
For GGDC 160-800 A busbar, end cap use with GGD 100028 order code.  
علاقات تثبيت تستعمل مع GGD 010001 لنظام GGDC 160-800A



GGD IP 55 YAPISKAN ELEMANI GGD IP 55 Sticky Plug Outlet Cover عنصر لاصق IP55



Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم / الوحدة)
GGD 500002	830810005550000	160-1000	0,001



GGD IP 55 KAPAK GGD IP 55 Outlet Cover غطاء IP55



Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم / الوحدة)
GGD 500003	830910005520000	160-1000	0,700

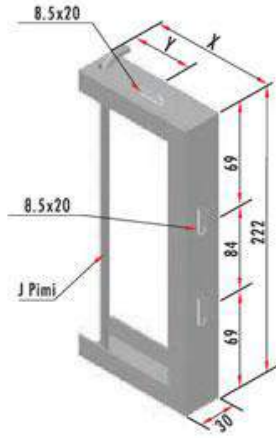




### GGD ASKI ELEMANI GGD Fixing hanger علاقة تثبيت

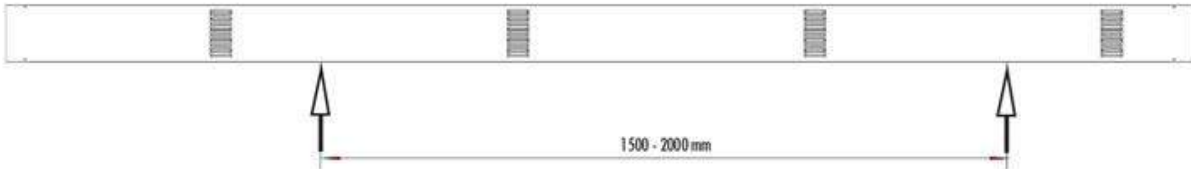
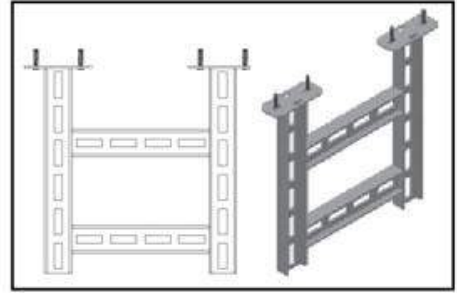
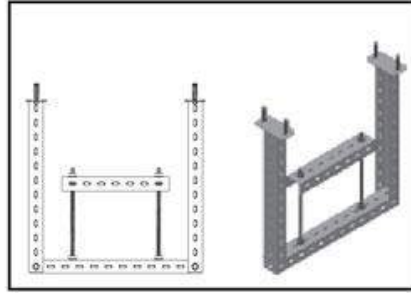
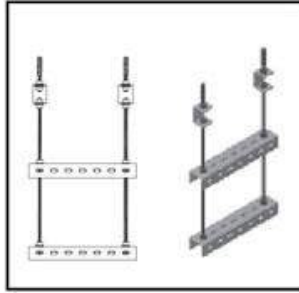


Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A	X mm	Y mm	Ağırlık (Kg/od) Weight (Kg/unit) (الوزن (كجم الوحدة)
GGD 010001	830 504000060003	160-400	97	50	0,300
GGD 020001	830 510000060003	500-1000	126	65	0,350
GGD 010004	830 504000060004	160-400	-	-	1,500
GGD 010005	830 510000060004	500-1000	-	-	1,500



GGD 010004  
GGD 010005

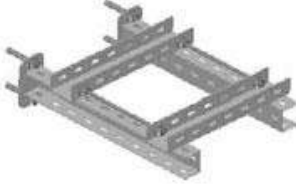
GGDC 160-800 A busbar için GGD 010001 sipariş kodlu askı elemanı kullanılır.  
For GGDC 160-800 A busbar, fixing hangers use with GGD 010001 order code.  
علاقات تثبيت تستعمل مع GGD 010001 لنظام GGDC 160-800A



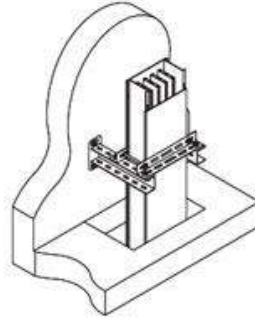




## GGD DIKEY SİSTEMLER İÇİN ASKI ELEMANI GGD Hanger for vertical riser علاقة GGD للرفع الرأسي

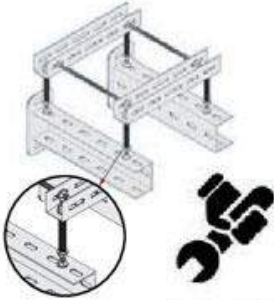


Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم / الوحدة)
GGD 010002	831004005560003	160-400	3,900
GGD 010003	831010005560003	500-1000	3,900



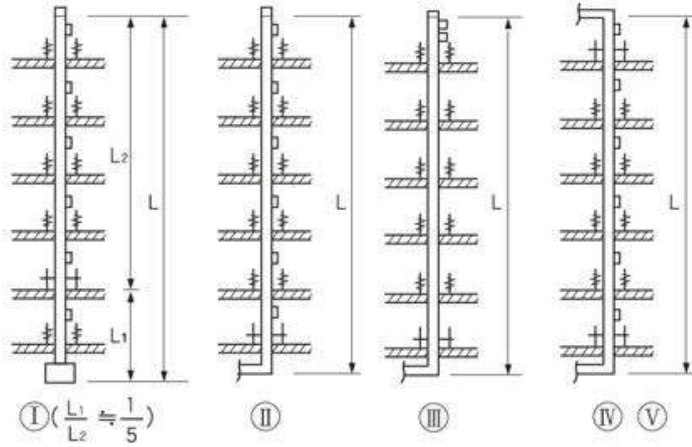
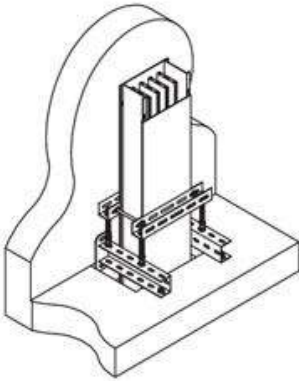
Dikey sistemler için genel bağlantı askılara ek olarak her dikey çıkışta ve 150 kg Busbar için 1 adet yaylı askı kullanılmalıdır.  
One spring hanger for vertical risers must be used, in addition of universal fixing hangers, in each vertical riser and every 150 kg. of busway.

يجب استخدام علاقة زنبركية للرفع الرأسي، بالإضافة إلى علاقات التثبيت القياسية، في كل رافعة رأسية وكل 150 كجم من البسبار



Aşağıya doğru ayarlanabilir  
Adjust the weight by adjustment set

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



## ORTA GÜÇ BUSBAR KANAL SİSTEMLERİ

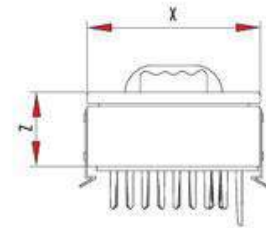
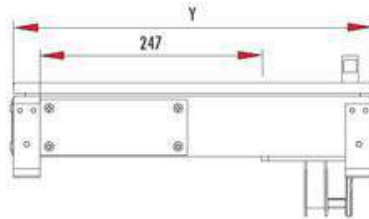
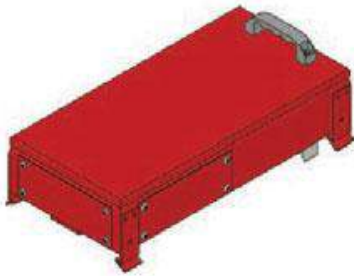
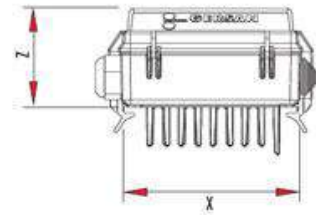
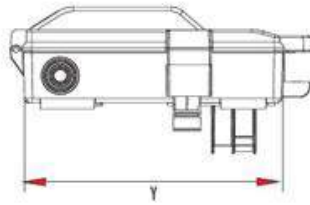


## Medium Power Busbar Trunking Systems انظمة البسبار للقوة المتوسطة

### ÇIKIŞ KUTUSU NH TİP Tap-off Box NH Type صندوق إغلاق إصدار NH



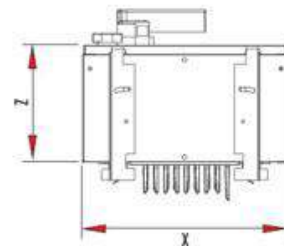
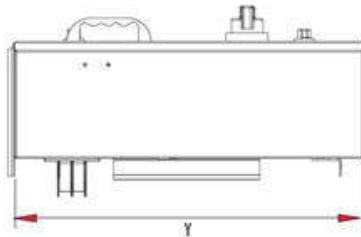
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	X mm	Y mm	Z mm	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD 400631	832500635510051	25-80	191	300	97	3,000
GGD 40 1251	832501255510051	25-125	193	400	82	9,800



### ÇIKIŞ KUTUSU SYK TİP Tap-off Box SPB Type صندوق إغلاق إصدار SPB



Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	X mm	Y mm	Z mm	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم الوحدة)
GGD 401160	832401605510051	160	350	600	250	12,400
GGD 402500	832402505510051	250	400	700	300	20,400
GGD 404000	832404005510051	400	400	700	300	27,000
GGD 406300	832406305510051	630	450	700	300	35,000



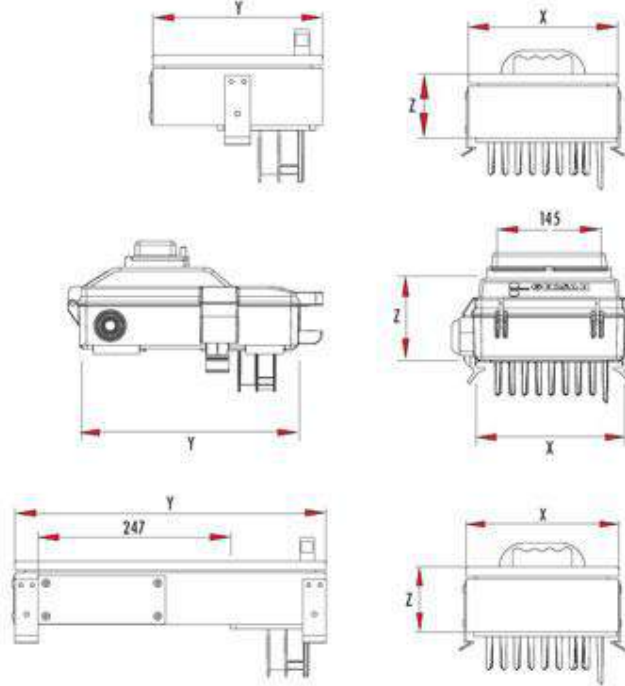
Ağırlıklar MCB, NH ve MCCB hariç olarak verilmiştir.  
The weights are not including MCB, NH and MCCB.  
الأوزان غير متضمنة في MCB, NH, MCCB.



### ÇIKIŞ KUTUSU MCB VERSİYONLU Tap-off Box MCB Version صندوق إغلاق إصدار MCB



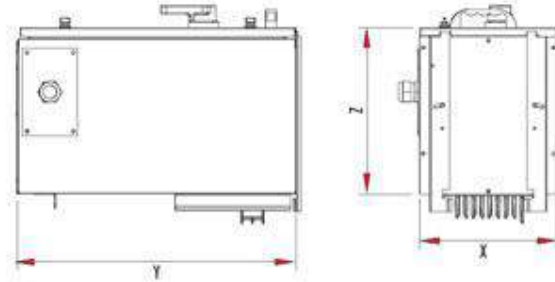
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	X mm	Y mm	Z mm	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم / الوحدة)
GGD 400630	832600635510050	25-80	193	200	82	4,400
GGD 400632	832600635510051	25-80	191	300	97	2,300
GGD 401252	832601255510051	25-125	193	400	82	9,800



### ÇIKIŞ KUTUSU MCCB VERSİYONLU Tap-off Box MCCB Version صندوق إغلاق إصدار MCCB



Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	A A A	X mm	Y mm	Z mm	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم / الوحدة)
GGD 401253	832601255510052	25-125	300	500	300	13,600
GGD 401162	832601605510051	160	300	600	225	14,000
GGD 402502	832602505510051	250	300	600	225	15,600
GGD 404002	832604005510051	400	300	700	300	22,000
GGD 406302	832606305510051	630	300	700	300	27,000



Ağırlıklar MCB ve MCCB hariç olarak verilmiştir.  
The weights are not including MCB and MCCB's.  
الأوزان غير متضمنة في MCB و MCCB



GGDA Teknik Bilgiler GGDA Technical Details

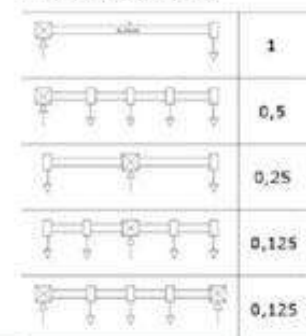
التفاصيل الفنية لـ GGDA

		GGDA 160A	GGDA 250A	GGDA 315A	GGDA 400A	GGDA 500A	GGDA 630A	GGDA 800A	GGDA 1000A	
Nominal Akım / Rated Current التيار المعدل	$I_n$	160	250	315	400	500	630	800	1000	A
Uygulama Gerilimi / Operational Voltage جهد التشغيل	$U_o$	1000								V
İzolasyon Gerilim / Insulation Voltage جهد العزل	$U_i$	1000								V
Frekans / Frequency التردد	f	50-60 (AC/DC)								Hz
Faz Kesiti / Cross Section Of Phases مقطع عرضي للفتات	$S_p$	144	144	279	279	500	500	600	700	mm <sup>2</sup>
Nötr Kesiti / Cross Section Of Neutral مقطع عرضي للفتاز الأرضي	$S_N$	144	144	279	279	500	500	600	700	mm <sup>2</sup>
Toprak Barasının Kesiti / Cross Section of Earth Bar قطاع عرضي لعود الأرضي		200	200	200	200	350	350	350	350	mm <sup>2</sup>
Alüminyum Kasa Kesiti / Cross Section Of Aluminium Housing قطاع عرضي للمغنيوم الألومنيوم		1083	1083	1083	1083	1200	1200	1200	1200	mm <sup>2</sup>
Faz Kısa Devre Akımı (1sn) / Short Circuit Current of Phases (1s) تيار توصيل الفتات (1 ثانية)	$I_{sc}$	13	13	20	20	25	25	35	40	kA
Faz PİK Akımı / Peak Current of Phases قمة تيار الفتات	$I_{pk}$	26	26	44	44	53	53	80	90	kA
Nötr Kısa Devre Akımı (1sn) / Short Circuit Current of Neutral (1s) تيار التوصيل للفتاز المحايد (1 ثانية)	$I_{sc}$	8	8	10	12	15	15	22	24	kA
Nötr PİK Akımı / Peak Current of Neutral قمة تيار الفتاز المحايد	$I_{pk}$	14	16	20	24	30	30	44	50	kA
Faz Direnci / Phase Resistance (T=20°C) مقاومة الفتاز (T=20°C)	$R_{20}$	0,193	0,193	0,103	0,103	0,058	0,058	0,048	0,041	mΩ/m
Faz Direnci / Phase Resistance مقاومة الفتاز	$R_1$	0,338	0,338	0,157	0,157	0,098	0,098	0,080	0,045	mΩ/m
Faz Reaktansı / Phase Reactance مفاعلة الفتاز	$X_1$	0,094	0,094	0,050	0,050	0,014	0,014	0,010	0,007	mΩ/m
Faz Empedansı / Phase Impedance مقاومة الفتاز	$Z_1$	0,351	0,351	0,165	0,165	0,099	0,099	0,080	0,046	mΩ/m

Dağılım Yükte Gerilim Düşümü Tablosu [ΔV] Voltage drop with distributed load		160	250	315	400	500	630	800	1000
	[mV/m]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]
$\cos\phi = 0.95 (\alpha=1)$		97	151	90	115	87	108	113	78

Konsantre Yük İle Gerilim Düşümü Hesabı هبوط الجهد مع حمل طرفي مركز		Voltage drop with concentrated end line load		$\Delta V = \alpha \sqrt{3} I_L l (R \cos\phi + X_L \sin\phi) 10^{-3}$
ΔV	Gerilim Düşümü (V)	هبوط الجهد		
α	Yük Dağılım Katsayısı	عامل توزيع التيار		
l	Hat Uzunluğu (m)	طول القناة		
$I_L$	Hat akımı (A)	تيار الاستخدام (A)		
R	Karakteristik Direnç (m/m)	مقاومة الفتاز لكل وحد طول من البسبار		
$X_L$	Endüktif Reaktans (m/m)	مفاعلة الفتاز لكل وحد طول من البسبار		
$\cos\phi$	Güç Faktörü	عامل متوسط التحميل		

توزيع الحمل الثابت  
LOAD DISTRIBUTION CONSTANT (α)





GGDC Teknik Bilgiler GGDC Technical Details

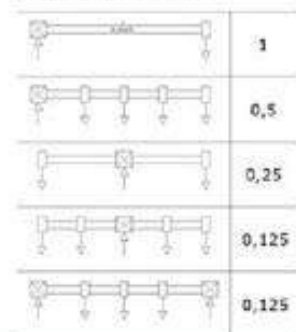
التفاصيل الفنية لـ GGDC

		GGDC 160A	GGDC 250A	GGDC 315A	GGDC 400A	GGDC 500A	GGDC 630A	GGDC 800A	
Nominal Akım / Rated Current التيار المعدل	$I_n$	160	250	315	400	500	630	800	A
Uygulama Gerilimi / Operational Voltage جهد التشغيل	$U_o$	1000							V
İzolasyon Gerilimi / Insulation Voltage جهد العزل	$U_i$	1000							V
Frekans / Frequency التردد	f	50-60 (AC/DC)							Hz
Faz Kesiti / Cross Section Of Phases مقطع عرضي للفاازات	$S_{\phi}$	144	144	144	144	250	250	400	mm <sup>2</sup>
Nötr Kesiti / Cross Section Of Neutral مقطع عرضي للفااز الأرضي	$S_N$	144	144	144	144	250	250	400	mm <sup>2</sup>
Toprak Barasının Kesiti / Cross Section Of Earth Bar مقطع عرضي لعود الأرضي	$S_{tr}$	200	200	200	200	200	200	200	mm <sup>2</sup>
Alüminyum Kasa Kesiti / Cross Section Of Aluminium Housing مقطع عرضي للمغنيوم الألومنيوم	$S_{enc}$	1083	1083	1083	1083	1083	1083	1083	mm <sup>2</sup>
Faz Kısa Devre Akımı (1sn) / Short-Circuit Current of Phases (1s) تيار توصيل الفاازات (1 ثانية)	$I_{sc}$	20	20	20	20	25	25	35	kA
Faz PİK Akımı / Peak Current of Phases قمة تيار الفاازات	$I_{pk}$	44	44	44	44	53	53	74	kA
Nötr Kısa Devre Akımı (1sn) / Short-Circuit Current of Neutral (1s) تيار التوصيل للفااز المحايد (1 ثانية)	$I_{scN}$	12	12	12	12	15	15	22	kA
Nötr PİK Akımı / Peak Current of Neutral قمة تيار الفااز المحايد	$I_{pkN}$	24	24	24	24	30	30	44	kA
Faz Direnci / Phase Resistance (T=20°C) مقاومة الفااز (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 مقاومة الفااز	$R_1$	0,138	0,138	0,138	0,138	0,108	0,108	0,068	mΩ/m
Faz Reaktansı / Phase Reactance مفاعلة الفااز	$X_1$	0,021	0,021	0,021	0,021	0,018	0,018	0,010	mΩ/m
Faz Empedansı / Phase Impedance مقاومة الفااز	$Z_1$	0,139	0,139	0,139	0,165	0,136	0,136	0,080	mΩ/m

Doğru Yükle Gerilim Düşümü Tablosu [ΔV] Voltage drop with distributed load	$l$ (m)	160	250	315	400	500	630	800
		[A]	[A]	[A]	[A]	[A]	[A]	[A]
$\cos\phi = 0.95$ ( $\alpha=1$ )		46	72	91	115	119	150	115

Konsantre Yükle Gerilim Düşümü Hesabı / Voltage drop with concentrated end line load هبوط الجهد مع حمل طرفي مركز		$\Delta V = \alpha \cdot \sqrt{3} \cdot I_b \cdot L (R \cos\phi + X_1 \sin\phi) \cdot 10^{-3}$
$\Delta V$	Gerilim Düşümü (V) Yoltage drop	هبوط الجهد
$\alpha$	Yük Dağılım Katsayısı Current distribution factor	عامل توزيع التيار
$l$	Hat Uzunluğu (m) Duct length	طول القناة
$I_b$	Hat akımı (A) Use current (A)	تيار الاستخدام (A)
$R$	Karakteristik Direnc (mΩ/m) Phase resistance per unit length of the busbar	مقاومة الفااز لكل وحد طول من الباسبار
$X_1$	Endüktif Reaktans (mΩ/m) Phase reactance per unit length of the busbar	مفاعلة الفااز لكل وحد طول من الباسبار
$\cos\phi$	Güç Faktörü Average load power factor	عامل متوسط التحميل

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

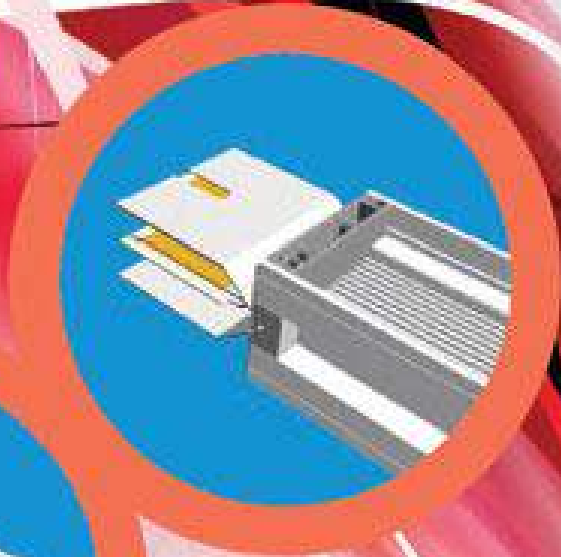






**GERSAN**

ELEKTRİK TİC. VE SAN. A.Ş.



**GS-SÜPER COMPACT**

*GS-Super Compact*

انظمة البسيار المضغوطة المدمجة



ASTA



REMAR

V<sup>3</sup>



CE



ISO 9001-14001-18001



GS-500 ~ 6000 A



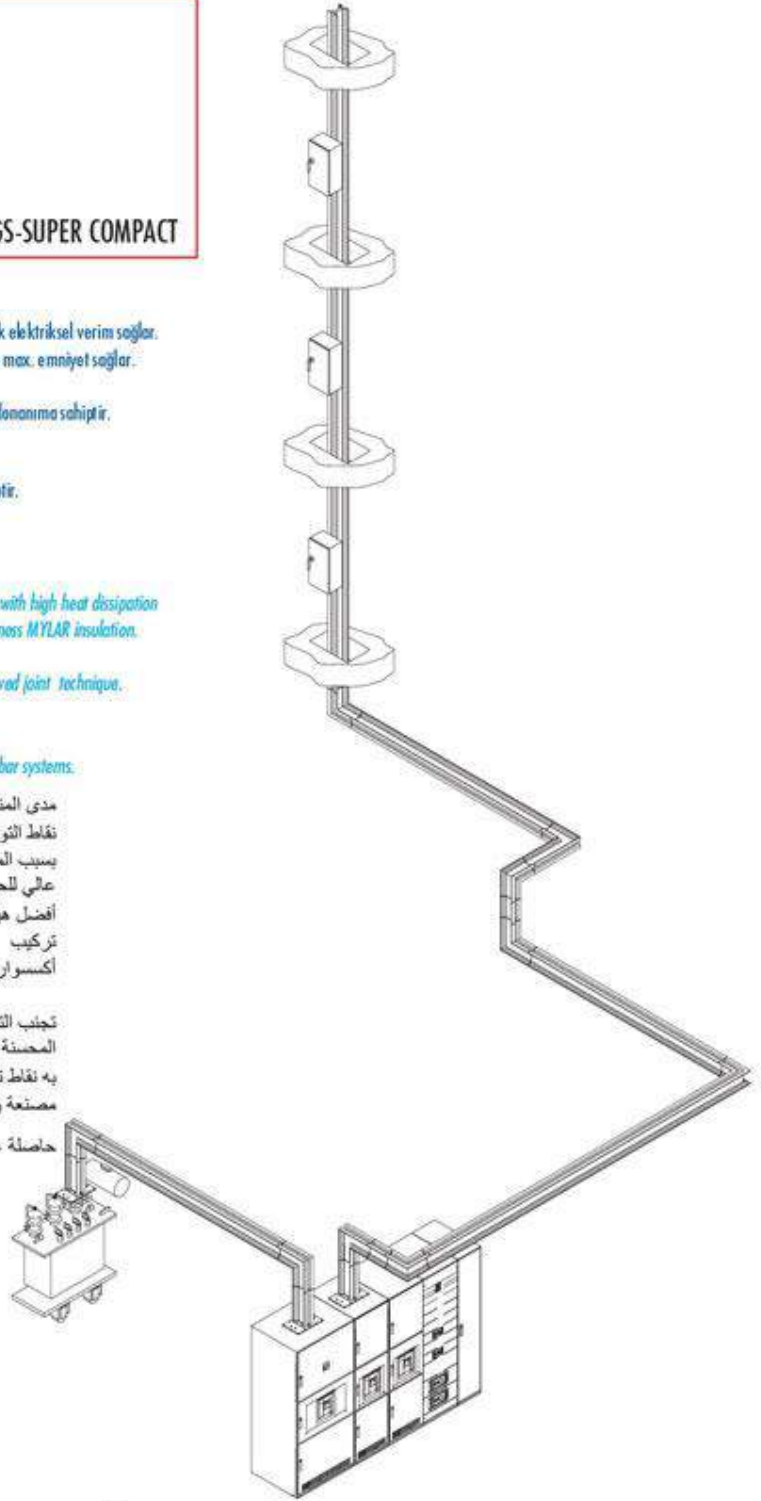
IP55  
IP65/67/68

GS-SUPER COMPACT

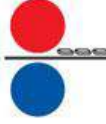
- \* 500-6000 Amper aralığında üretilir.
- \* İletkenler Kalay kaplıdır.
- \* Tamamı alüminyumdan imal edilmiş gövde, soğumayı hızlandırarak elektrisel verim sağlar.
- \* 0.5 mm kalınlığında MYLAR izolasyon ile daha iyi kompakt yapı ve max. emniyet sağlar.
- \* Dönüş ve offset aksesuarları kaynaklıdır.
- \* Ek noktası kısa devreye imkan vermez ve bolt-on çıkış 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.

- \* Production range is between 500-6000A.
- \* 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 0.5 mm thickness MYLAR insulation.
- \* The carriers 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.

- \* مدى المنتج من 500-6000 أمبير
- \* نقاط التوصيل مغلقة بالقصدير
- \* بسبب المنيم الألومونيوم بالكامل، يعطي كفاءة كهربائية عالية مع تبريد عالي للحرارة MYLAR
- \* أفضل هيكل توصيل وأقصى درجات الأمان مع سماكة 0.5مم مع تركيب أكسسوارات الأركان والأطراف هي منتجات مصنعة بدون لحام
- \* تجنب التوصيل الكهربائي أثناء إحكام الوصلات مع تقنية التوصيل المحسنة
- \* به نقاط توصيل لا تؤثر على الهيكل مصنعة وفقا لمعايير IP55 و IP65/67/68
- \* حاصلة على جميع الشهادات الدولية وشهادات أنظمة البسبار







GS-SUPER COMPACT

GS-A  
500A - 5000A

İletken olarak kullanılan malzeme alüminyumdur (EC Grade).  
The conductors used in this serie are aluminium(EC Grade).  
الموصلات المستخدمة في المجموعة من الألومنيوم (درجة EC)

GS-C  
500A - 6000A

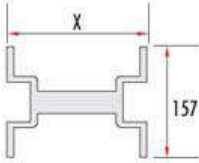
İletken olarak kullanılan malzeme elektrolitik bakırdır (%99.9 Saflıkta).  
The conductors used in this serie are electrolytic copper(%99.9 purity).  
الموصلات المستخدمة في المجموعة هي من النحاس العالي التوصيل  
(%99.9 درجة النقاء)

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

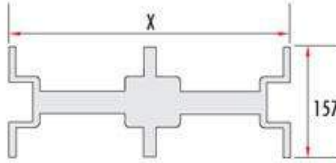
GS-A	GS-C	X mm
GS-A 500A	GS-C 500A	130
GS-A 630A	GS-C 630A	130
GS-A 800A	GS-C 800A	130
GS-A 1000A	GS-C 1000A	130
GS-A 1250A	GS-C 1250A	150
GS-A 1600A	GS-C 1600A	185
GS-A 2000A	GS-C 2000A	205
GS-A 2500A	GS-C 2500A	255

GS-A	GS-C	X mm
GS-A 2500A	GS-C 3200A	370
GS-A 3200A	GS-C 4000A	410
GS-A 4000A	GS-C 4000A	510

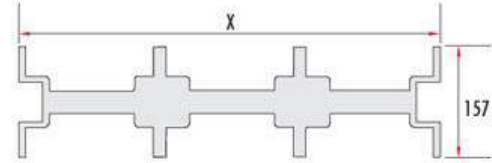
GS-A	GS-C	X mm
GS-A 5000A	GS-C 5000A	615
GS-A 5000A	GS-C 6000A	765



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		

## SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ



Süper Compact Busbar Trunking Systems  
انظمة البسيار المضغوطة المنمجة

STANDART BOY ELEMAN (BOLT-ON) 3P+N+1/2 PE Standard Length Element (Bolt-on) 3P+N+1/2 PE عنصر الطول القياسي (مساومة الربط) 3P+N+1/2 PE

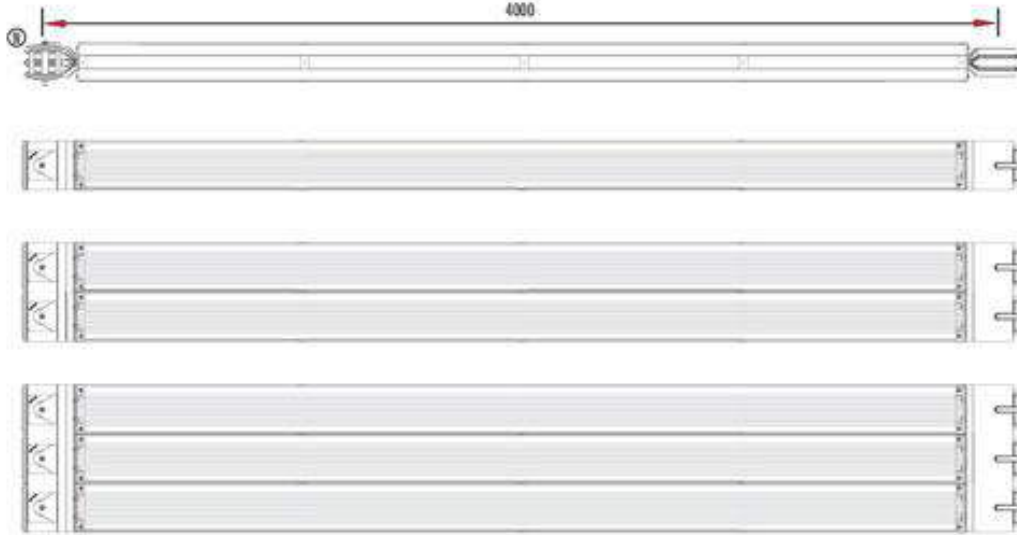


### GS-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ampere A	Ağırlık (Kg/m) Weight (Kg/m) الوزن (كجم/متر)
GS-AB 050105	980105005524050	500	10,540
GS-AB 050106	980106305524050	630	10,540
GS-AB 050108	980108005524050	800	10,540
GS-AB 050110	980110005524050	1000	14,470
GS-AB 050112	980112505524050	1250	17,800
GS-AB 050116	980116005524050	1600	22,520
GS-AB 050120	980120005524050	2000	24,840
GS-AB 100226	980126005524100	2500	35,600
GS-AB 100233	980133005524100	3200	45,040
GS-AB 100241	980141005524100	4000	49,740
GS-AB 150350	980150005524150	5000	74,340

### GS-C

GS-CB 050105	990105005514051	500	20,090
GS-CB 050106	990106305514051	630	20,090
GS-CB 050108	990108005514051	800	20,090
GS-CB 050110	990110005514051	1000	20,090
GS-CB 050112	990112505514051	1250	25,520
GS-CB 050116	990116005514051	1600	36,850
GS-CB 050120	990120005514051	2000	51,750
GS-CB 050125	990125005514051	2500	55,980
GS-CB 100233	990133005514101	3200	73,700
GS-CB 100241	990141005514101	4000	111,960
GS-CB 150350	990150005514151	5000	157,110
GS-CB 150360	990160005514151	6000	169,770



Malzeme: Alüminyum gövde üstünde MYLAR Film izolasyon kaplı barolardan oluşur. Standart IP55 veya opsiyonel IP65/67/68 koruma derecesine sahiptir.  
Lütfen Siparişinizde koruma seviyesini belirtiniz.  
Genel izolasyon sınıfı Class F'dir.

Mounting of the busbars consists of aluminium covers and MYLAR Film insulation material coated bars. Trunkings are manufactured with IP55 as Standard also, trunkings can be manufactured with IP65/67/68 as optional. Please inform the protection level when ordering. General heat insulation class is Class F.

Yüksek kaliteli alüminyum gövde üstünde MYLAR Film izolasyon kaplı barolardan oluşur. Standart IP55 veya opsiyonel IP65/67/68 koruma derecesine sahiptir.  
Lütfen Siparişinizde koruma seviyesini belirtiniz.  
Genel izolasyon sınıfı Class F'dir.

## SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ



## Süper Compact Busbar Trunking Systems انظمة البسبار المضغوطة المدمجة

STANDART BOY ELEMAN (PLUG-IN) 3P+N+1/2 PE Standard Length Element (Plug-in) 3P+N+1/2 PE (عناصر الطول القياسي (صامتة الربط) 3P+N+1/2 PE

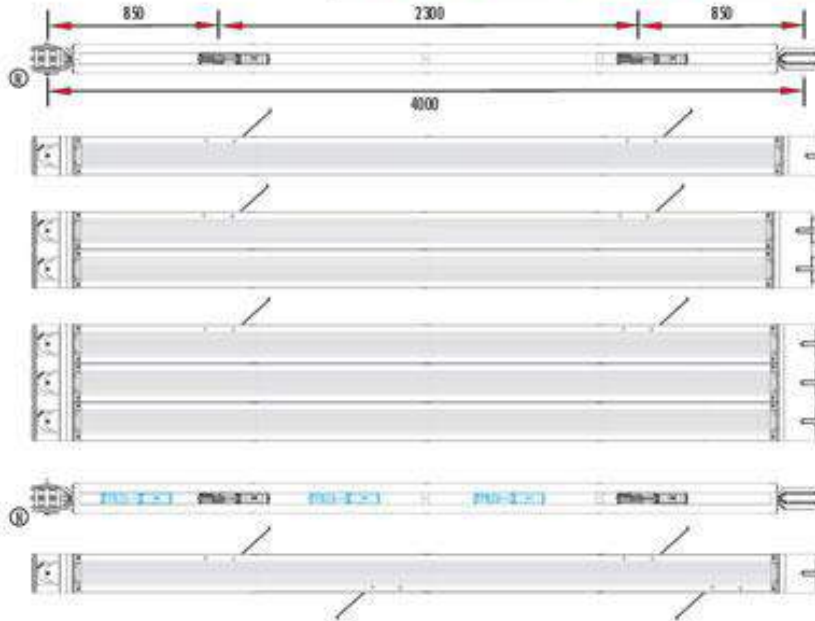


### GS-A

Sipariş koda Order code رمز الطلب	Stok koda Stock code رمز المخزن	Ampere A	Ağırlık (Kg/m) Weight (kg/m) الوزن (كجم/متر)
GS-AP 050105	980105005524051	500	10,780
GS-AP 050106	980106305524051	630	10,780
GS-AP 050108	980108005524051	800	10,780
GS-AP 050110	980110005524051	1000	12,700
GS-AP 050112	980112505524051	1250	18,030
GS-AP 050116	980116005524051	1600	22,760
GS-AP 050120	980120005524051	2000	25,080
GS-AP 100226	980126005524101	2500	36,060
GS-AP 100233	980133005524101	3200	45,520
GS-AP 100241	980141005524101	4000	49,940
GS-AP 150330	980150005524151	5000	74,480

### GS-C

GS-CP 050105	990105005514052	500	20,540
GS-CP 050106	990106305514052	630	20,540
GS-CP 050108	990108005514052	800	20,540
GS-CP 050110	990110005514052	1000	20,540
GS-CP 050112	990112505514052	1250	25,970
GS-CP 050116	990116005514052	1600	37,300
GS-CP 050120	990120005514052	2000	52,210
GS-CP 050125	990125005514052	2500	56,430
GS-CP 100233	990133005514102	3200	74,600
GS-CP 100241	990141005514102	4000	112,860
GS-CP 150350	990150005514152	5000	157,670
GS-CP 150360	990160005514152	6000	169,930



Malzemesi, Alüminyum gövde üzerinde  
MYLAR Film kolayca kaplı bardardan oluşur.  
Standard IPSS koruma derecesine sahiptir.

Bodying of the busbars consists of aluminum covers  
and MYLAR film insulation material coated bars.  
IPSS protection is standard.

يتكون ملصق البسبار من أغشية من الألومنيوم وأغشية أعمدة  
MYLAR، ومصنعة وفقاً لمعايير IPSS القياسي، ويتم  
كعنصر اختياري، يرجى ذكر.

## SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ



## Süper Compact Busbar Trunking Systems انظمة البسبار المضغوطة المدمجة

ARABOY ELEMANI (BOLT-ON) 3P+N+1/2 PE Non Standard Element (Bolt-on) 3P+N+1/2 PE عنصر الطول الغير قياسي (صامولة الربط) 3P+N+1/2 PE

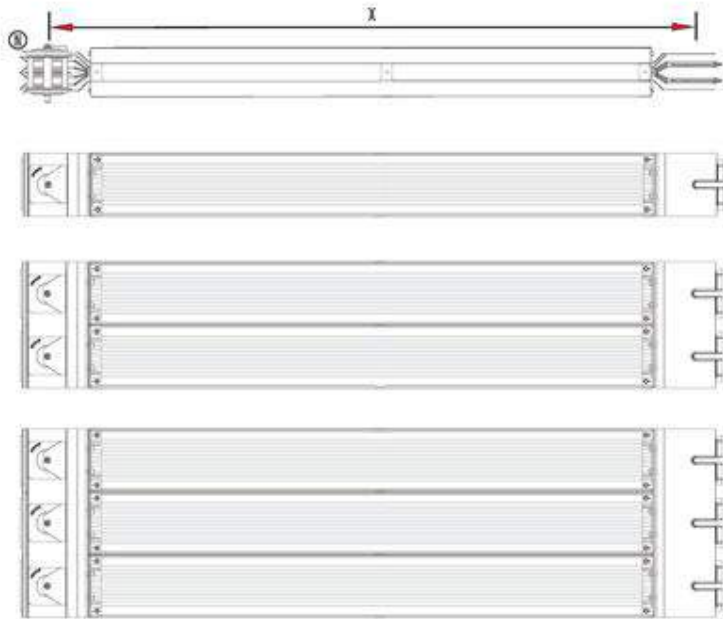
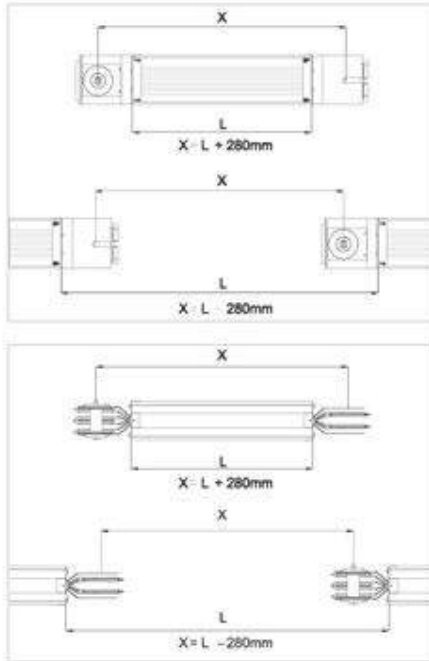


GS-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A	Ağırlık (Kg/m) Weight (Kg/mtr.) الوزن (كجم/متر)
GS-AB 0501051	980305005521050	500	14,610
GS-AB 0501061	980306305521050	630	14,610
GS-AB 0501081	980308005521050	800	14,610
GS-AB 0501101	980310005521050	1000	16,930
GS-AB 0501121	980312505521050	1250	22,730
GS-AB 0501161	980316005521050	1600	28,180
GS-AB 0501201	980320005521050	2000	31,340
GS-AB 1002261	980326005521100	2500	45,460
GS-AB 1002331	980333005521100	3200	56,360
GS-AB 1002411	980341005521100	4000	63,040
GS-AB 1503501	980350005521150	5000	93,430

GS-C			
GS-CB 0501051	990305005515051	500	25,060
GS-CB 0501061	990306305515051	630	25,060
GS-CB 0501081	990308005515051	800	25,060
GS-CB 0501101	990310005515051	1000	25,060
GS-CB 0501121	990312505515051	1250	31,220
GS-CB 0501161	990316005515051	1600	43,580
GS-CB 0501201	990320005515051	2000	60,180
GS-CB 0501251	990325005515051	2500	65,480
GS-CB 1002331	990333005515101	3200	87,160
GS-CB 1002411	990341005515101	4000	130,960
GS-CB 1503501	990350005515151	5000	187,890
GS-CB 1503601	990360005515151	6000	203,720

Min X = 370 mm  
Max X = 3999 mm

Siparişlerinizde X boyunu belirtiniz.  
Please inform X length when ordering.  
برجاء ذكر الطول X عند الطلب



## SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ



## Süper Compact Busbar Trunking Systems انظمة البسبار المضغوطة المدمجة

ARABOY ELEMANI (PLUG-IN) 3P+N+1/2 PE Non Standard Element (PLUG-IN) 3P+N+1/2 PE عنصر الطول الغير قياسي (مضغوطة الربطة) 3P+N+1/2 PE



### GS-A

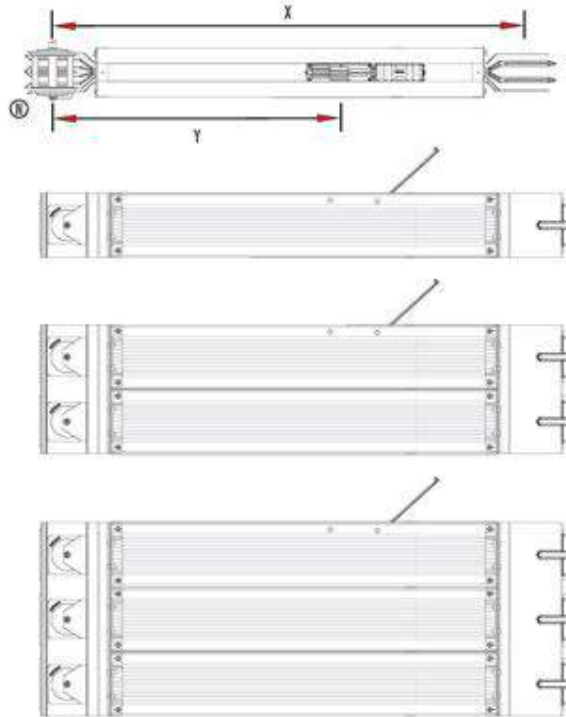
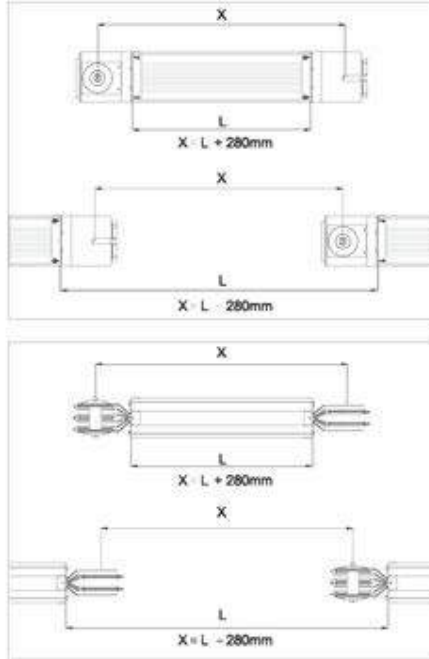
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A	Ağırlık (Kg/m) Weight (Kg/m) الوزن (كجم/متر)
GS-AP 0501051	980305005521051	500	14,940
GS-AP 0501061	980306305521051	630	14,940
GS-AP 0501081	980308005521051	800	14,940
GS-AP 0501101	980310005521051	1000	17,240
GS-AP 0501121	980312505521051	1250	23,040
GS-AP 0501161	980316005521051	1600	28,510
GS-AP 0501201	980320005521051	2000	31,720
GS-AP 1002261	980326005521101	2500	46,080
GS-AP 1002331	980333005521101	3200	57,020
GS-AP 1002411	980341005521101	4000	63,360
GS-AP 1503501	980350005521151	5000	93,740

### GS-C

GS-CP 0501051	990305005515052	500	25,670
GS-CP 0501061	990306305515052	630	25,670
GS-CP 0501081	990308005515052	800	25,670
GS-CP 0501101	990310005515052	1000	25,670
GS-CP 0501121	990312505515052	1250	31,830
GS-CP 0501161	990316005515052	1600	44,190
GS-CP 0501201	990320005515052	2000	60,790
GS-CP 0501251	990325005515052	2500	66,080
GS-CP 1002331	990333005515102	3200	88,380
GS-CP 1002411	990341005515102	4000	132,160
GS-CP 1503501	990350005515152	5000	188,500
GS-CP 1503601	990360005515152	6000	203,930

Min X = 1000 mm  
Max X = 3999 mm

Siparişlerinizde X,Y boyunu belirtiniz.  
Please inform X,Y length when ordering.  
برجاء ذكر الطول X,Y عند الطلب

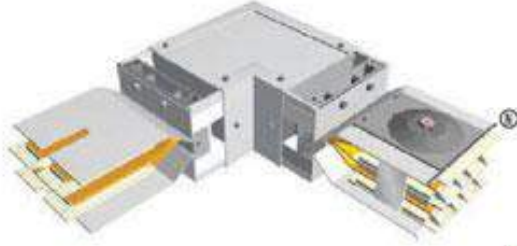


## SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ



Süper Compact Busbar Trunking Systems  
انظمة البسبار المضغوطة المدمجة

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

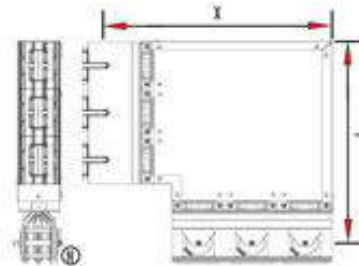
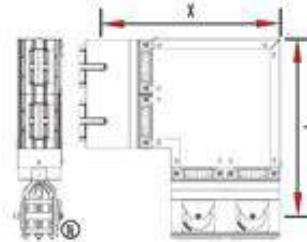
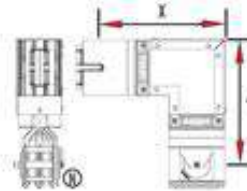
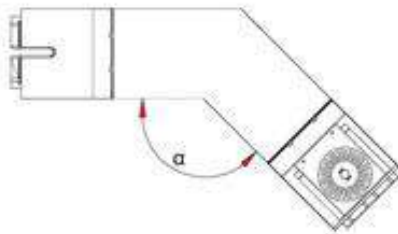
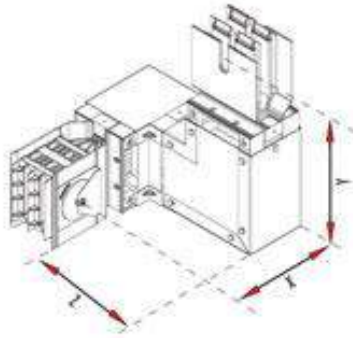


### GS-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ampere A	X mm	Y mm	Ağırlık (Kg/mt.) Weight (Kg/mt.) الوزن (كجم/متر)
GS-A HE 05R	982 90 500 5520050	500	385	385	18,540
GS-A HE 06R	982 90 630 5520050	630	385	385	18,540
GS-A HE 08R	982 90 800 5520050	800	385	385	18,540
GS-A HE 10R	982 91 000 5520050	1000	410	410	20,990
GS-A HE 12R	982 91 250 5520050	1250	440	440	25,560
GS-A HE 16R	982 91 600 5520050	1600	460	460	31,100
GS-A HE 20R	982 92 000 5520050	2000	520	520	37,040
GS-A HE 26R	982 92 600 5520100	2500	625	625	51,120
GS-A HE 33R	982 93 300 5520100	3200	665	665	62,200
GS-A HE 41R	982 94 100 5520100	4000	775	775	88,740
GS-A HE 50R	982 95 000 5520150	5000	1030	1030	144,890

### GS-C

GS-C HE 05R	992 90 500 5510051	500	385	385	24,350
GS-C HE 06R	992 90 630 5510051	630	385	385	24,350
GS-C HE 08R	992 90 800 5510051	800	385	385	24,350
GS-C HE 10R	992 91 000 5510051	1000	385	385	24,350
GS-C HE 12R	992 91 250 5510051	1250	410	410	32,160
GS-C HE 16R	992 91 600 5510051	1600	440	440	43,140
GS-C HE 20R	992 92 000 5510051	2000	460	460	59,280
GS-C HE 25R	992 92 500 5510051	2500	520	520	70,650
GS-C HE 33R	992 93 300 5510101	3200	625	625	84,280
GS-C HE 41R	992 94 100 5510101	4000	775	775	141,300
GS-C HE 50R	992 95 000 5510151	5000	870	870	236,540
GS-C HE 60R	992 96 000 5510151	6000	1030	1030	294,350

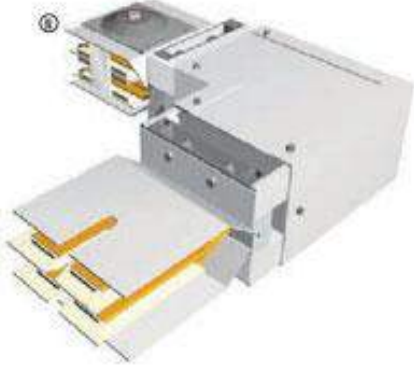


Siparişinizde özel açı ya da dikey + yatay kombinasyonları için isteğinizi bildiriniz.  
Please inform your request for special angle or vertical + horizontal elbow combinations.

الرجاء ذكر طلباتكم عن مجاميع الاقنية + العمودية / او الزوايا الخاصة للمثلثات

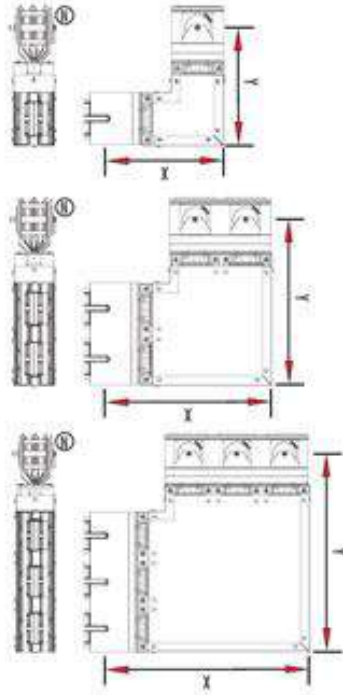
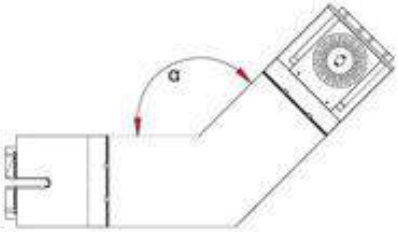
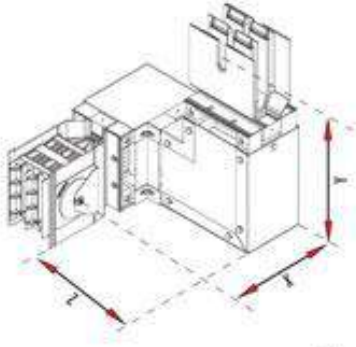


90° YATAY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE 90° Horizontal Elbow Element (Left) 3P+N+1/2 PE (يسار) عنصر كوع أفقي 90 درجة (يسار) 3P+N+1/2 PE



GS-A					
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	Amper A	X mm	Y mm	Ağırlık (Kg/od) Weight (Kg/ord) الوزن (كجم/الوحدة)
GS-A HE 05L	982905005520051	500	385	385	18,540
GS-A HE 06L	982906305520051	630	385	385	18,540
GS-A HE 08L	982908005520051	800	385	385	18,540
GS-A HE 10L	982910005520051	1000	410	410	20,990
GS-A HE 12L	982912505520051	1250	440	440	25,560
GS-A HE 16L	982916005520051	1600	460	460	31,100
GS-A HE 20L	982920005520051	2000	520	520	37,040
GS-A HE 26L	982926005520101	2500	625	625	51,120
GS-A HE 33L	982933005520101	3200	665	665	62,200
GS-A HE 41L	982941005520101	4000	775	775	88,740
GS-A HE 50L	982950005520151	5000	1030	1030	144,890

GS-C					
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	Amper A	X mm	Y mm	Ağırlık (Kg/od) Weight (Kg/ord) الوزن (كجم/الوحدة)
GS-C HE 05L	992905005510052	500	385	385	26,350
GS-C HE 06L	992906305510052	630	385	385	26,350
GS-C HE 08L	992908005510052	800	385	385	26,350
GS-C HE 10L	992910005510052	1000	385	385	26,350
GS-C HE 12L	992912505510052	1250	410	410	32,160
GS-C HE 16L	992916005510052	1600	440	440	43,140
GS-C HE 20L	992920005510052	2000	460	460	59,230
GS-C HE 25L	992925005510052	2500	520	520	70,650
GS-C HE 33L	992933005510102	3200	625	625	86,380
GS-C HE 41L	992941005510102	4000	775	775	141,300
GS-C HE 50L	992950005510152	5000	870	870	236,540
GS-C HE 60L	992960005510152	6000	1030	1030	294,350



Siparişinizde özel açılı veya dikey + yatay kombinasyonları için isteğinizi bildiniz.  
Please inform your request for special angle or vertical + horizontal elbow combinations.  
الرجاء ذكر طلباتكم عن مجاميع الاقنية + العمودية او الزوايا الخاصة للطلبات



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

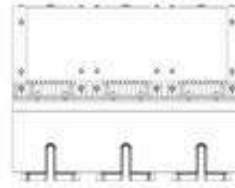
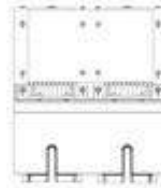
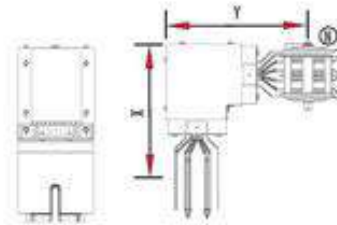
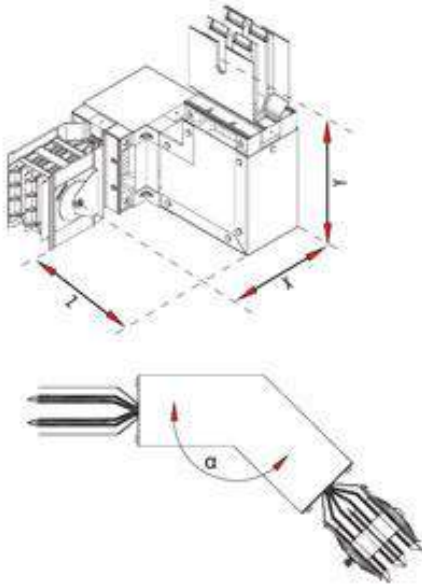


GS-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	İncer A A	İ mm	T mm	Ağırlık (Kg/ad) Weight (Kg/each) الوزن (كجم/الوحدة)
GS-A VE 05R	983105005520050	500	380	380	14,860
GS-A VE 06R	983106305520050	630	380	380	14,860
GS-A VE 08R	983108005520050	800	380	380	14,860
GS-A VE 10R	983110005520050	1000	380	380	16,560
GS-A VE 12R	983112505520050	1250	380	380	20,330
GS-A VE 16R	983116005520050	1600	380	380	24,130
GS-A VE 20R	983120005520050	2000	380	380	27,030
GS-A VE 26R	983126005520100	2500	380	380	40,660
GS-A VE 33R	983133005520100	3200	380	380	48,260
GS-A VE 41R	983141005520100	4000	380	380	50,820
GS-A VE 50R	983150005520150	5000	380	380	74,600

GS-C

GS-C VE 05R	993105005510051	500	380	380	21,720
GS-C VE 06R	993106305510051	630	380	380	21,720
GS-C VE 08R	993108005510051	800	380	380	21,720
GS-C VE 10R	993110005510051	1000	380	380	21,720
GS-C VE 12R	993112505510051	1250	380	380	25,930
GS-C VE 16R	993116005510051	1600	380	380	34,020
GS-C VE 20R	993120005510051	2000	380	380	45,100
GS-C VE 25R	993125005510051	2500	380	380	49,410
GS-C VE 33R	993133005510101	3200	380	380	68,040
GS-C VE 41R	993141005510101	4000	380	380	98,820
GS-C VE 50R	993150005510151	5000	380	380	129,360
GS-C VE 60R	993160005510151	6000	380	380	141,740



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

الرجاء ذكر طلباتكم عن مجاميع الافقية + العمودية. لوزاوية الخاصة للطلبات



## SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ



Süper Compact Busbar Trunking Systems  
انظمة البسبار المضغوطة المدمجة

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

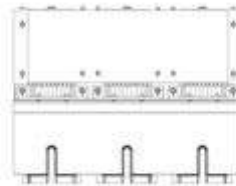
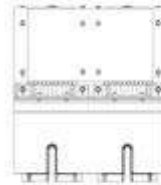
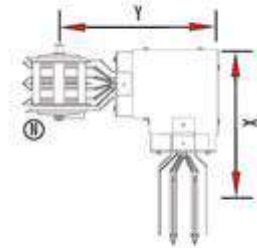
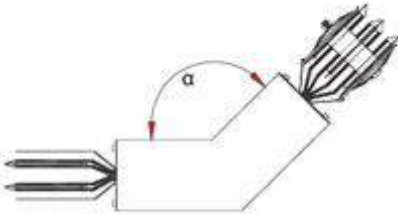
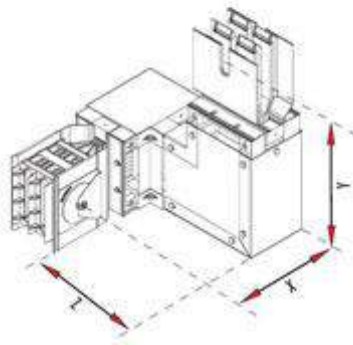


### GS-A

Sipariş kodo Order code رمز الطلب	Stok kodo Stock code رمز المخزن	Ampere A	X mm	Y mm	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GS-A VE 05L	983105005520051	500	380	380	14,860
GS-A VE 06L	983106305520051	630	380	380	14,860
GS-A VE 08L	983108005520051	800	380	380	14,860
GS-A VE 10L	983110005520051	1000	380	380	16,560
GS-A VE 12L	983112505520051	1250	380	380	20,330
GS-A VE 16L	983116005520051	1600	380	380	24,130
GS-A VE 20L	983120005520051	2000	380	380	27,030
GS-A VE 26L	983126005520101	2500	380	380	40,660
GS-A VE 33L	983133005520101	3200	380	380	48,260
GS-A VE 41L	983141005520101	4000	380	380	50,820
GS-A VE 50L	983150005520151	5000	380	380	74,600

### GS-C

GS-C VE 05L	993105005510052	500	380	380	21,720
GS-C VE 06L	993106305510052	630	380	380	21,720
GS-C VE 08L	993108005510052	800	380	380	21,720
GS-C VE 10L	993110005510052	1000	380	380	21,720
GS-C VE 12L	993112505510052	1250	380	380	25,930
GS-C VE 16L	993116005510052	1600	380	380	34,020
GS-C VE 20L	993120005510052	2000	380	380	45,100
GS-C VE 25L	993125005510052	2500	380	380	49,410
GS-C VE 33L	993133005510102	3200	380	380	68,040
GS-C VE 41L	993141005510102	4000	380	380	98,820
GS-C VE 50L	993150005510152	5000	380	380	129,360
GS-C VE 60L	993160005510152	6000	380	380	141,740



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

الرجاء ذكر طلباتكم عن مجاميع الإقنية + العمودية أو الزوايا الخاصة للتطبيقات

## SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ



Super Compact Busbar Trunking Systems  
انظمة البسبار المضغوطة المدمجة

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



### GS-A

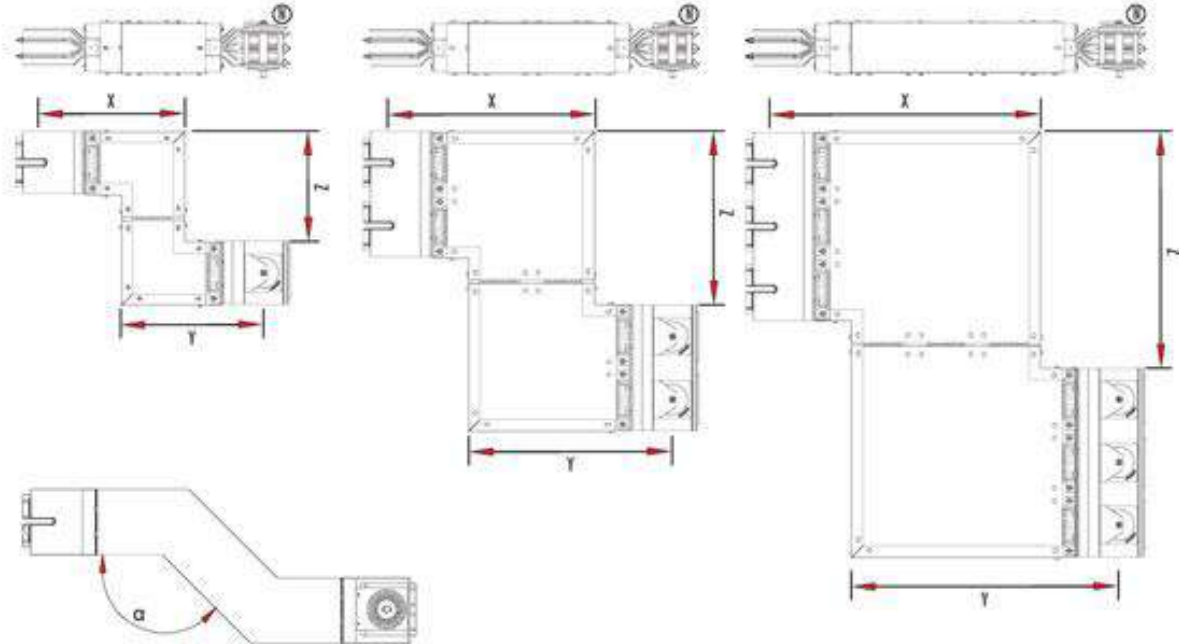
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A	X mm	Y mm	Z mm	Ağırlık (Kg/mt) Weight (Kg/mt) الوزن (كجم/الترتيد)
GS-A HZ 05R	98340500 5520050	500	385	385	285	27,450
GS-A HZ 06R	98340630 5520050	630	385	385	285	27,450
GS-A HZ 08R	98340800 5520050	800	385	385	285	27,450
GS-A HZ 10R	98341000 5520050	1000	410	410	310	31,140
GS-A HZ 12R	98341250 5520050	1250	440	440	350	38,960
GS-A HZ 16R	98341600 5520050	1600	460	460	360	47,400
GS-A HZ 20R	98342000 5520050	2000	520	520	415	57,000
GS-A HZ 26R	98342600 5520100	2500	625	625	535	77,920
GS-A HZ 33R	98343300 5520100	3200	665	665	565	94,800
GS-A HZ 41R	98344100 5520100	4000	775	775	670	114,320
GS-A HZ 50R	98345000 5520150	5000	1030	1030	925	169,630

### GS-C

GS-C HZ 05R	99340500 5510051	500	385	385	285	38,470
GS-C HZ 06R	99340630 5510051	630	385	385	285	38,470
GS-C HZ 08R	99340800 5510051	800	385	385	285	38,470
GS-C HZ 10R	99341000 5510051	1000	385	385	285	38,470
GS-C HZ 12R	99341250 5510051	1250	410	410	310	47,210
GS-C HZ 16R	99341600 5510051	1600	440	440	350	65,000
GS-C HZ 20R	99342000 5510051	2000	460	460	360	89,640
GS-C HZ 25R	99342500 5510051	2500	520	520	415	108,770
GS-C HZ 33R	99343300 5510101	3200	625	625	535	130,000
GS-C HZ 41R	99344100 5510101	4000	775	775	670	217,540
GS-C HZ 50R	99345000 5510151	5000	870	870	770	266,860
GS-C HZ 60R	99346000 5510151	6000	1030	1030	925	324,920

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

طول التصنيع القياسية مبنية في الجدول. يمكن تصنيع طول حسب الطلب. يرجى ذكر الأبعاد X, Y, Z عند الطلب.



## SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ



Super Compact Busbar Trunking Systems  
انظمة البسبار المضغوطة المدمجة

90° YATAY OFSET ELEMANI (SOL) 3P+N+1/2 PE 90° Horizontal Offset Element (Left) 3P+N+1/2 PE عنصر التوازن الأفقي (يسار) 90 درجة 3P+N+1/2 PE



### GS A

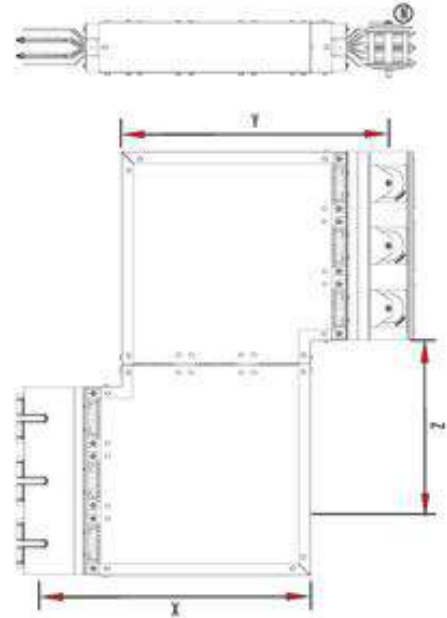
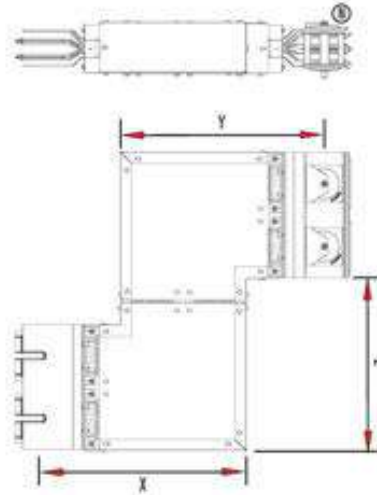
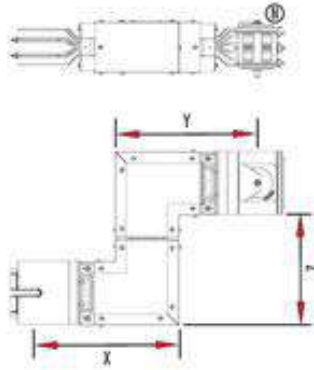
Sipariş koda Order code رمز الطلب	Stok koda Stock code رمز المخزون	Amper A	X mm	Y mm	Z mm	Ağırlık (kg/ml) Weight (kg/ml) الوزن (كجم المتر)
GS-A HZ 05L	983405005520051	500	385	385	285	27,450
GS-A HZ 06L	983406305520051	630	385	385	285	27,450
GS-A HZ 08L	983408005520051	800	385	385	285	27,450
GS-A HZ 10L	983410005520051	1000	410	410	310	31,140
GS-A HZ 12L	983412505520051	1250	440	440	350	38,940
GS-A HZ 16L	983416005520051	1600	460	460	360	47,400
GS-A HZ 20L	983420005520051	2000	520	520	415	57,000
GS-A HZ 26L	983426005520101	2500	625	625	535	77,920
GS-A HZ 33L	983433005520101	3200	665	665	565	94,800
GS-A HZ 41L	983441005520101	4000	775	775	670	114,320
GS-A HZ 50L	983450005520151	5000	1030	1030	925	169,630

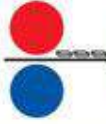
### GS C

GS-C HZ 05L	993405005510052	500	385	385	285	38,470
GS-C HZ 06L	993406305510052	630	385	385	285	38,470
GS-C HZ 08L	993408005510052	800	385	385	285	38,470
GS-C HZ 10L	993410005510052	1000	385	385	285	38,470
GS-C HZ 12L	993412505510052	1250	410	410	310	47,210
GS-C HZ 16L	993416005510052	1600	440	440	350	65,000
GS-C HZ 20L	993420005510052	2000	460	460	360	89,640
GS-C HZ 25L	993425005510052	2500	520	520	415	108,770
GS-C HZ 33L	993433005510102	3200	625	625	535	130,000
GS-C HZ 41L	993441005510102	4000	775	775	670	217,540
GS-C HZ 50L	993450005510152	5000	870	870	770	266,860
GS-C HZ 60L	993460005510152	6000	1030	1030	925	324,920

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 indicate the length X,Y,Z when ordering.

طول التصنيع القياسية مبيّنة في الجدول. يمكن لتصنيع طول حسب الطلب. يرجى ذكر الأبعاد X, Y, Z عند الطلب.



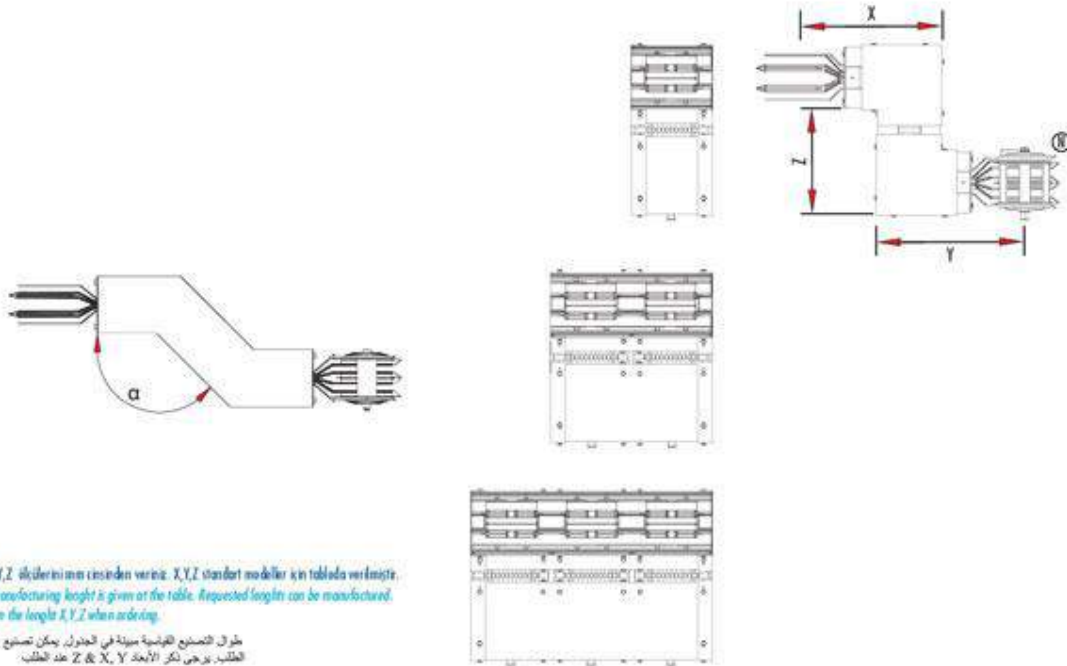


90° DIKEY OFSET ELEMANI (SAĞ) 3P+N+1/2 PE 90° Vertical Offset Element (Right) 3P+N+1/2 PE عنصر التوازن الرأسى (يمين) 90 درجة 3P+N+1/2 PE



GS-A							
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ampere A	X mm	Y mm	Z mm	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)	
GS-A VZ 05R	983605005520050	500	380	380	250	20,150	
GS-A VZ 06R	983606305520050	630	380	380	250	20,150	
GS-A VZ 08R	983608005520050	800	380	380	250	20,150	
GS-A VZ 10R	983610005520050	1000	380	380	250	22,360	
GS-A VZ 12R	983612505520050	1250	380	380	250	27,380	
GS-A VZ 16R	983616005520050	1600	380	380	250	32,370	
GS-A VZ 20R	983620005520050	2000	380	380	250	36,180	
GS-A VZ 26R	983626005520100	2500	380	380	250	54,760	
GS-A VZ 33R	983633005520100	3200	380	380	250	64,740	
GS-A VZ 41R	983641005520100	4000	380	380	250	70,670	
GS-A VZ 50R	983650005520150	5000	380	380	250	103,650	

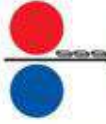
GS-C							
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ampere A	X mm	Y mm	Z mm	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)	
GS-C VZ 05R	993605005510051	500	380	380	250	29,430	
GS-C VZ 06R	993606305510051	630	380	380	250	29,430	
GS-C VZ 08R	993608005510051	800	380	380	250	29,430	
GS-C VZ 10R	993610005510051	1000	380	380	250	29,430	
GS-C VZ 12R	993612505510051	1250	380	380	250	35,060	
GS-C VZ 16R	993616005510051	1600	380	380	250	45,900	
GS-C VZ 20R	993620005510051	2000	380	380	250	60,610	
GS-C VZ 25R	993625005510051	2500	380	380	250	66,460	
GS-C VZ 33R	993633005510101	3200	380	380	250	91,800	
GS-C VZ 41R	993641005510101	4000	380	380	250	132,920	
GS-C VZ 50R	993650005510151	5000	380	380	250	176,770	
GS-C VZ 60R	993660005510151	6000	380	380	250	194,500	



Sipariş X, Y, Z ölçülerini mm cinsinden veriniz. X, Y, Z standart modeller için tabloda verilmektedir.  
Standard manufacturing height is given at the table. Requested heights can be manufactured.  
Please inform the length X, Y, Z when ordering.

طول التصنيع القياسية مبينة في الجدول. يمكن تصنيع طول حسب الطلب. يرجى ذكر الأبعاد X, Y عند الطلب.

## SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ



Süper Compact Busbar Trunking Systems  
انظمة البسيار المضغوطة المدجة

90° DİKEY OFSET ELEMANI (SOL) 3P+N+1/2 PE 90° Vertical Offset Element (Left) 3P+N+1/2 PE درجة 90 (يسار) عنصر التوازن الراسي (بمسار) 3P+N+1/2 PE

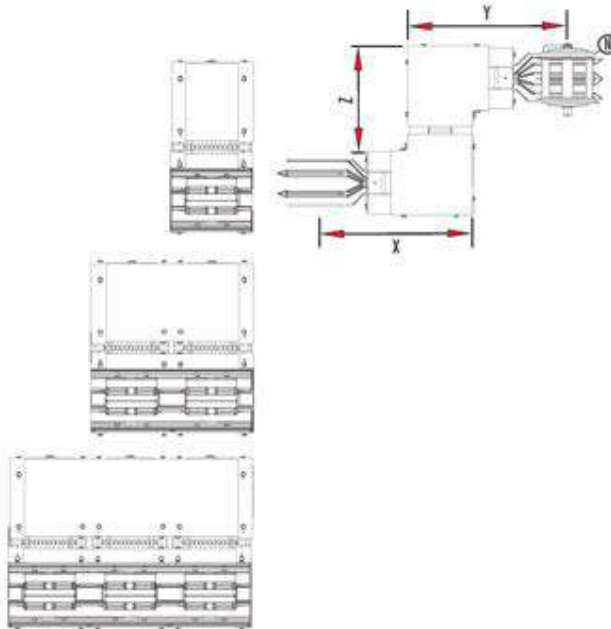
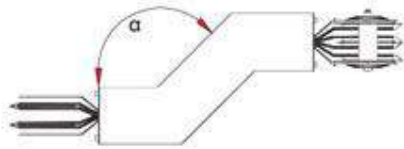


### GS-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A	X mm	Y mm	Z mm	Ağırlık (Kg/od) Weight (Kg/od) الوزن (كجم/الوحدة)
GS-A VZ 05L	983605005520051	500	380	380	250	20,150
GS-A VZ 06L	983606305520051	630	380	380	250	20,150
GS-A VZ 08L	983608005520051	800	380	380	250	20,150
GS-A VZ 10L	983610005520051	1000	380	380	250	22,360
GS-A VZ 12L	983612505520051	1250	380	380	250	27,380
GS-A VZ 16L	983616005520051	1600	380	380	250	32,370
GS-A VZ 20L	983620005520051	2000	380	380	250	36,180
GS-A VZ 26L	983626005520101	2500	380	380	250	54,760
GS-A VZ 33L	983633005520101	3200	380	380	250	64,740
GS-A VZ 41L	983641005520101	4000	380	380	250	70,690
GS-A VZ 50L	983650005520151	5000	380	380	250	103,650

### GS-C

GS-C VZ 05L	993605005510052	500	380	380	250	29,430
GS-C VZ 06L	993606305510052	630	380	380	250	29,430
GS-C VZ 08L	993608005510052	800	380	380	250	29,430
GS-C VZ 10L	993610005510052	1000	380	380	250	29,430
GS-C VZ 12L	993612505510052	1250	380	380	250	35,060
GS-C VZ 16L	993616005510052	1600	380	380	250	45,900
GS-C VZ 20L	993620005510052	2000	380	380	250	60,610
GS-C VZ 25L	993625005510052	2500	380	380	250	66,460
GS-C VZ 33L	993633005510102	3200	380	380	250	91,800
GS-C VZ 41L	993641005510102	4000	380	380	250	132,920
GS-C VZ 50L	993650005510152	5000	380	380	250	176,770
GS-C VZ 60L	993660005510152	6000	380	380	250	194,500



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

طول التصنيع القياسية مبدية في الجدول. يمكن تصنيع طول حسب الطلب. يرجى ذكر الأبعاد X, Y, Z عند الطلب.

# SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ



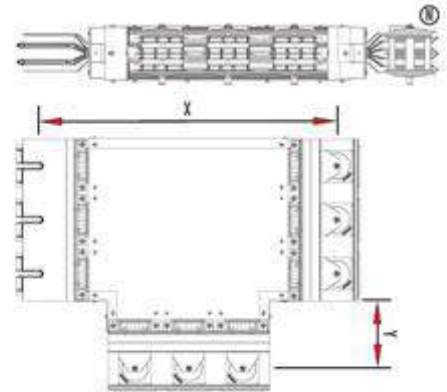
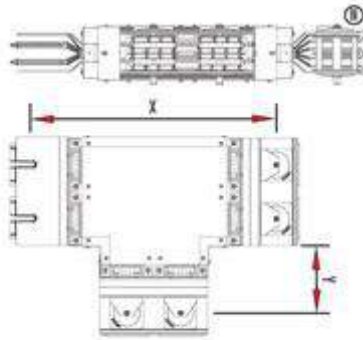
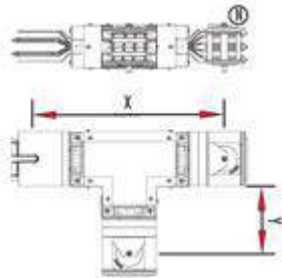
Süper Compact Busbar Trunking Systems  
انظمة البسيار المضغوطة المدمجة

T ELEMANI (SAĞ) 3P+N+1/2 PE T Element (Right) 3P+N+1/2 PE (يمين) عنصر على شكل T 3P+N+1/2 PE



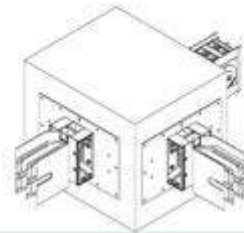
GS-A						
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A	X mm	Y mm	Ağırlık (Kg/mt) Weight (Kg/foot) الوزن (كجم المتر)	
GS-A TE 05R	983805005520050	500	645	260	27,890	
GS-A TE 06R	983806305520050	630	645	260	27,890	
GS-A TE 08R	983808005520050	800	645	260	27,890	
GS-A TE 10R	983810005520050	1000	670	260	31,430	
GS-A TE 12R	983812505520050	1250	700	260	38,950	
GS-A TE 16R	983816005520050	1600	720	260	46,610	
GS-A TE 20R	983820005520050	2000	780	260	54,480	
GS-A TE 26R	983826005520100	2500	885	260	77,900	
GS-A TE 33R	983833005520100	3200	925	260	93,220	
GS-A TE 41R	983841005520100	4000	1035	260	119,230	
GS-A TE 50R	983850005520150	5000	1290	260	198,920	

GS-C						
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A	X mm	Y mm	Ağırlık (Kg/mt) Weight (Kg/foot) الوزن (كجم المتر)	
GS-C TE 05R	993805005510051	500	645	260	39,090	
GS-C TE 06R	993806305510051	630	645	260	39,090	
GS-C TE 08R	993808005510051	800	645	260	39,090	
GS-C TE 10R	993810005510051	1000	645	260	39,090	
GS-C TE 12R	993812505510051	1250	670	260	47,310	
GS-C TE 16R	993816005510051	1600	700	260	63,330	
GS-C TE 20R	993820005510051	2000	720	260	85,130	
GS-C TE 25R	993825005510051	2500	780	260	98,850	
GS-C TE 33R	993833005510101	3200	885	260	126,660	
GS-C TE 41R	993841005510101	4000	1035	260	197,700	
GS-C TE 50R	993850005510151	5000	1130	260	317,440	
GS-C TE 60R	993860005510151	6000	1290	260	378,190	



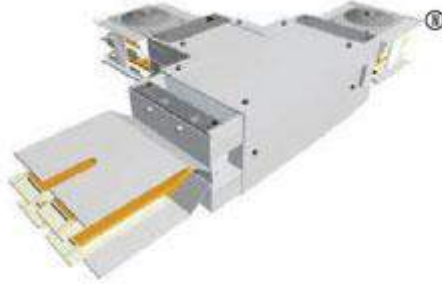
Siparişte X,Y ölçülerini mm cinsinden veriniz. X,Y standart modeller için tabloda verilmektedir.  
Standard manufacturing length is given at the table. Requested lengths can be manufactured.  
Please inform the length X,Y when ordering.

أطوال التصنيع القياسية مبيّنة في الجدول. يمكن تصنيع أطوال حسب الطلب. يرجى ذكر الأبعاد X, Y عند الطلب.





T ELEMANI (SOL) 3P+N+1/2 PE T Element (Left) 3P+N+1/2 PE (يسار) 3P+N+1/2 PE عنصر على شكل T

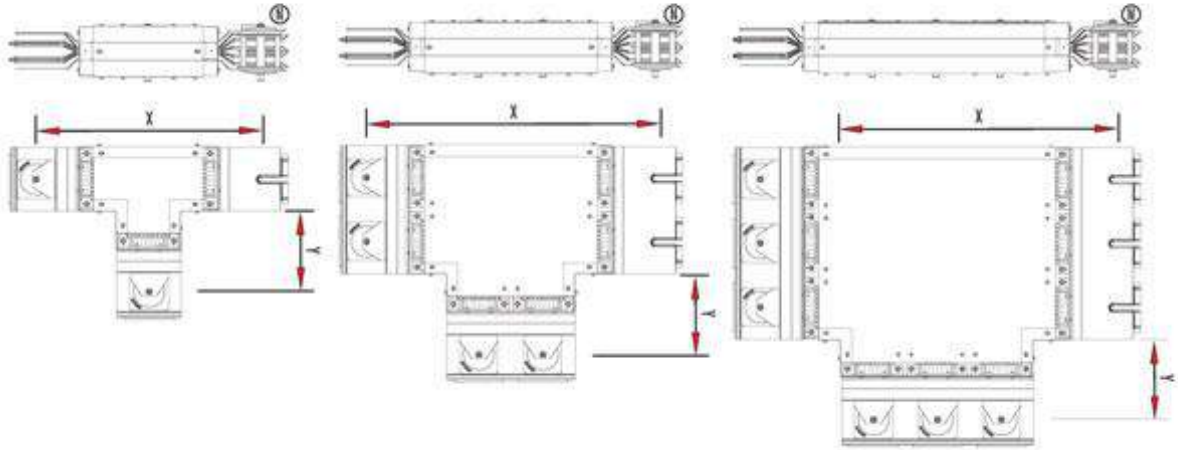


GS-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A	X mm	Y mm	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GS-A TE 05L	983805005520051	500	645	260	27,890
GS-A TE 06L	983806305520051	630	645	260	27,890
GS-A TE 08L	983808005520051	800	645	260	27,890
GS-A TE 10L	983810005520051	1000	670	260	31,430
GS-A TE 12L	983812505520051	1250	700	260	38,950
GS-A TE 16L	983816005520051	1600	720	260	46,610
GS-A TE 20L	983820005520051	2000	780	260	54,480
GS-A TE 26L	983826005520101	2500	885	260	77,900
GS-A TE 33L	983833005520101	3200	925	260	93,220
GS-A TE 41L	983841005520101	4000	1035	260	119,230
GS-A TE 50L	983850005520151	5000	1290	260	198,920

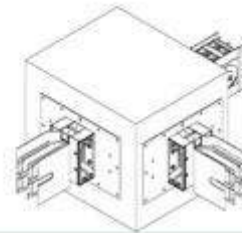
GS-C

GS-C TE 05L	993805005510052	500	645	260	39,090
GS-C TE 06L	993806305510052	630	645	260	39,090
GS-C TE 08L	993808005510052	800	645	260	39,090
GS-C TE 10L	993810005510052	1000	645	260	39,090
GS-C TE 12L	993812505510052	1250	670	260	47,310
GS-C TE 16L	993816005510052	1600	700	260	63,330
GS-C TE 20L	993820005510052	2000	720	260	85,130
GS-C TE 26L	993825005510052	2500	780	260	98,850
GS-C TE 33L	993833005510102	3200	885	260	126,660
GS-C TE 41L	993841005510102	4000	1035	260	197,700
GS-C TE 50L	993850005510152	5000	1130	260	317,440
GS-C TE 60L	993860005510152	6000	1290	260	378,190



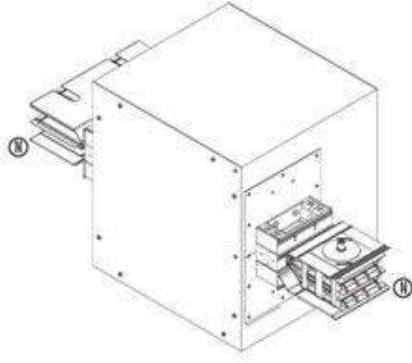
Siparişte X,Y ölçülerini mm cinsinden veriniz. X,Y standart modeller için tabloda verilmisdir.  
Standard manufacturing length is given at the table. Requested lengths can be manufactured.  
Please inform the length X,Y when ordering.

اطوال التصنيع القياسية مبيّنة في الجدول. يمكن تصنيع أطوال حسب الطلب. يرجى ذكر الأبعاد X, Y عند الطلب.



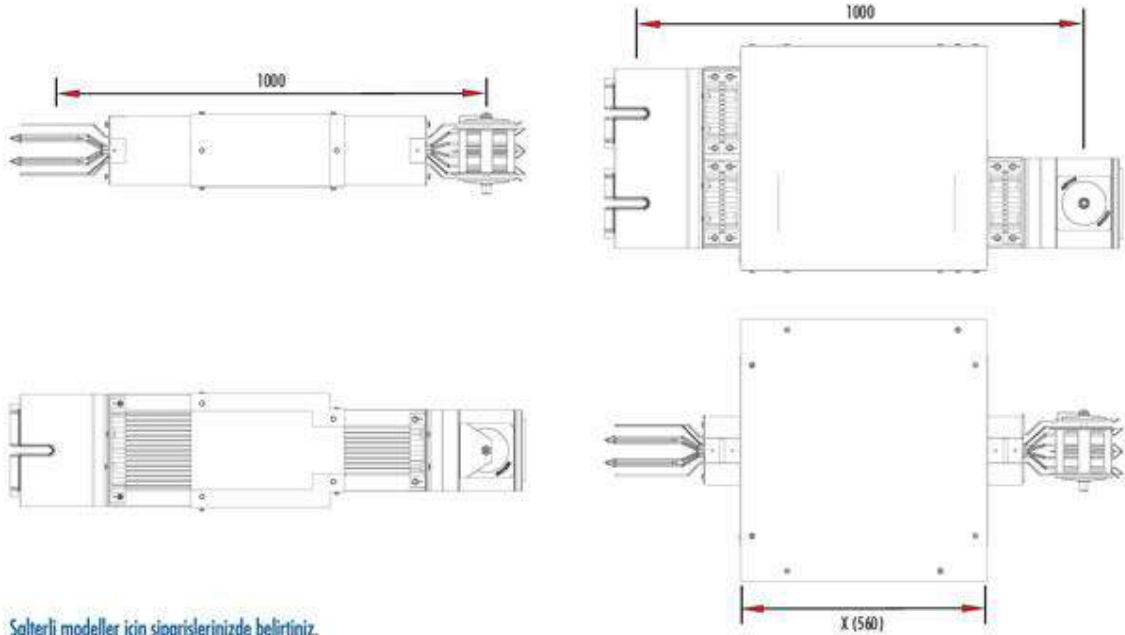


REDÜKSİYON ELEMANI 3P+N+1/2 PE Reduction Element 3P+N+1/2 PE عنصر التخفيض 3P+N+1/2 PE



GS-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ampere A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم / الوحدة)
GS-A RED1008	981310085520050	1000/800	20,260
GS-A RED1210	981312105520050	1250/1000	24,900
GS-A RED1612	981316125520050	1600/1250	30,800
GS-A RED2016	981320165520050	2000/1600	36,820
GS-A RED2620	981326205520100	2500/2000	70,000
GS-A RED3326	98133265520100	3200/2500	96,000
GS-A RED4133	981341335520100	4000/3200	137,000
GS-A RED5041	981350415520150	5000/4000	164,000

GS-C			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ampere A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم / الوحدة)
GS-C RED1210	991312105510051	1250/1000	34,050
GS-C RED1612	991316125510051	1600/1250	44,480
GS-C RED2016	991320165510051	2000/1600	72,410
GS-C RED2520	991325205510051	2500/2000	73,660
GS-C RED3325	99133255510101	3200/2500	117,000
GS-C RED4133	991341335510101	4000/3200	171,000
GS-C RED5041	991350415510101	5000/4000	225,000
GS-C RED6050	991360505510151	6000/5000	325,000



Şalterli modeller için siparişlerinizde belirtiniz.

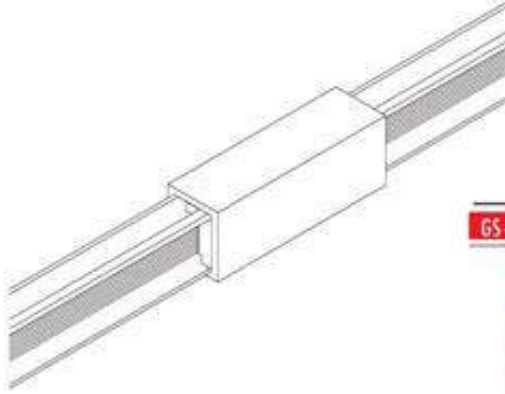
*It is available to use with circuit breaker, please inform this when ordering.*

الرجاء ذكر الطلبات الخاصة لموديلات القواطع





YANGIN BARIYERİ Fire Barrier حواجز لحریق



GS-A

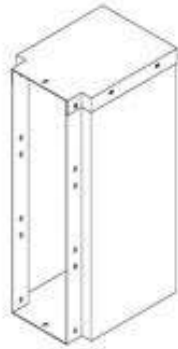
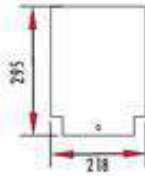
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	Ampere A	Ağırlık (Kg/mt) Weight (Kg/mt) الوزن (كجم/المترا)
GS-A FB 05	985005005510050	500	4,750
GS-A FB 06	985006305510050	630	4,750
GS-A FB 08	985008005510050	800	4,750
GS-A FB 10	985010005510050	1000	4,770
GS-A FB 12	985012505510050	1250	4,810
GS-A FB 16	985016005510050	1600	4,840
GS-A FB 20	985020005510100	2000	4,900
GS-A FB 26	985026005510100	2500	9,620
GS-A FB 33	985033005510100	3200	9,680
GS-A FB 41	985041005510100	4000	9,800
GS-A FB 50	985050005510150	5000	14,700

GS-C

GS-C FB 05	995005005510051	500	4,750
GS-C FB 06	995006305510051	630	4,750
GS-C FB 08	995008005510051	800	4,750
GS-C FB 10	995010005510051	1000	4,750
GS-C FB 12	995012505510051	1250	4,770
GS-C FB 16	995016005510051	1600	4,810
GS-C FB 20	995020005510101	2000	4,840
GS-C FB 25	995025005510051	2500	4,900
GS-C FB 33	995033005510101	3200	9,620
GS-C FB 41	995041005510101	4000	9,800
GS-C FB 50	995050005510151	5000	14,520
GS-C FB 60	995060005510151	6000	14,700

SONLANDIRMA ELEMANI End Cap

غطاء الطرف

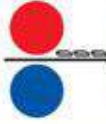


GS-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	Ampere A	Ağırlık (Kg/mt) Weight (Kg/mt) الوزن (كجم/المترا)
GS-A EU 05	982405005520051	500	2,600
GS-A EU 06	982406305520051	630	2,600
GS-A EU 08	982408005520051	800	2,600
GS-A EU 10	982410005520051	1000	2,700
GS-A EU 12	982412505520051	1250	3,000
GS-A EU 16	982416005520051	1600	3,200
GS-A EU 20	982420005520051	2000	3,400
GS-A EU 26	982426005520101	2500	6,300
GS-A EU 33	982433005520101	3200	6,300
GS-A EU 41	982441005520101	4000	6,300
GS-A EU 50	982450005520151	5000	7,250

GS-C

GS-C EU 05	992405005510051	500	2,600
GS-C EU 06	992406305510051	630	2,600
GS-C EU 08	992408005510051	800	2,600
GS-C EU 10	992410005510051	1000	2,600
GS-C EU 12	992412505510051	1250	2,700
GS-C EU 16	992416005510051	1600	3,000
GS-C EU 20	992420005510051	2000	3,200
GS-C EU 25	992425005510051	2500	3,400
GS-C EU 33	992433005510101	3200	6,300
GS-C EU 41	992441005510101	4000	6,300
GS-C EU 50	992450005510151	5000	6,300
GS-C EU 60	992460005510151	6000	7,250

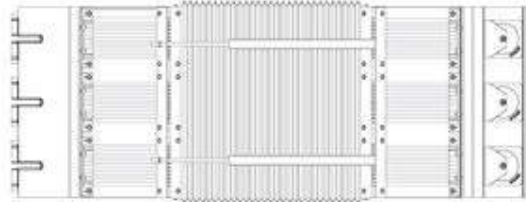
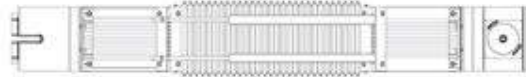
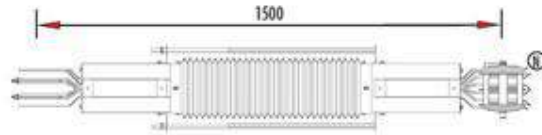


YATAY DILATASYON ELEMANI (MEKANİK) 3P+N+1/2 PE Horizontal Expansion Element (Mechanical) 3P+N+1/2 PE عنصر التمديد الأفقي 3P+N+1/2 PE



GS-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GS-A YMDE 05	981105005520053	500	34,260
GS-A YMDE 06	981106305520053	630	34,260
GS-A YMDE 08	981108005520053	800	34,260
GS-A YMDE 10	981110005520053	1000	37,810
GS-A YMDE 12	981112505520053	1250	48,390
GS-A YMDE 16	981116005520053	1600	65,970
GS-A YMDE 20	981120005520053	2000	79,640
GS-A YMDE 26	981126005520103	2500	96,780
GS-A YMDE 33	981133005520103	3200	131,940
GS-A YMDE 41	981141005520103	4000	156,960
GS-A YMDE 50	981150005520153	5000	227,990

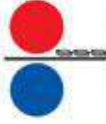
GS-C			
GS-C YMDE 05	991105005510053	500	47,940
GS-C YMDE 06	991106305510053	630	47,940
GS-C YMDE 08	991108005510053	800	47,940
GS-C YMDE 10	991110005510053	1000	47,940
GS-C YMDE 12	991112505510053	1250	56,500
GS-C YMDE 16	991116005510053	1600	75,670
GS-C YMDE 20	991120005510053	2000	107,810
GS-C YMDE 25	991125005510053	2500	124,250
GS-C YMDE 33	991133005510103	3200	151,340
GS-C YMDE 41	991141005510103	4000	248,500
GS-C YMDE 50	991150005510153	5000	319,900
GS-C YMDE 60	991160005510153	6000	361,690



Genleşme elemanı, binalardaki yapı genleşme noktalarında uygulanır.

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

يجب دمج عنصر وصلة التمديد في خط الطول المستقيم كل 40 أو عندما يتم توسعة المبنى



YATAY DILATASYON ELEMANI 3P+N+1/2 PE Horizontal Expansion Element 3P+N+1/2 PE عنصر التمديد الأفقي 3P+N+1/2 PE

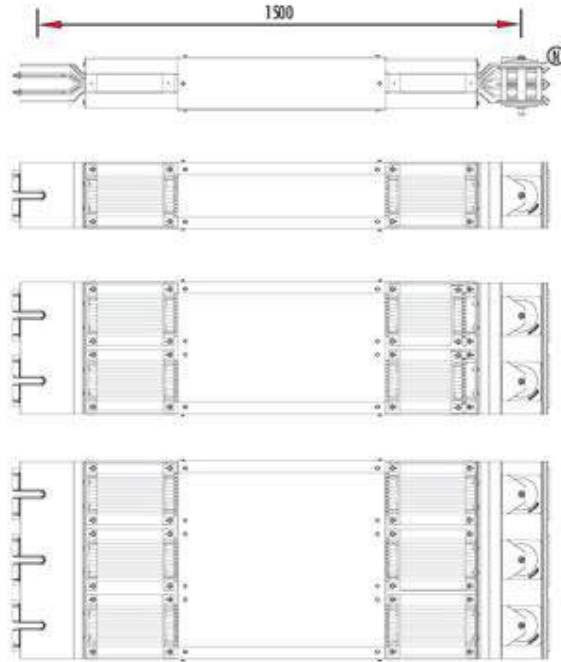


GS-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ampere A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GS-A YDE 05	981105005520050	500	35,270
GS-A YDE 06	981106305520050	630	35,270
GS-A YDE 08	981108005520050	800	35,270
GS-A YDE 10	981110005520050	1000	38,860
GS-A YDE 12	981112505520050	1250	49,380
GS-A YDE 16	981116005520050	1600	66,910
GS-A YDE 20	981120005520050	2000	80,630
GS-A YDE 26	981126005520100	2500	98,760
GS-A YDE 33	981133005520100	3200	133,820
GS-A YDE 41	981141005520100	4000	154,820
GS-A YDE 50	981150005520150	5000	228,840

GS-C

GS-C YDE 05	991105005510051	500	48,950
GS-C YDE 06	991106305510051	630	48,950
GS-C YDE 08	991108005510051	800	48,950
GS-C YDE 10	991110005510051	1000	48,950
GS-C YDE 12	991112505510051	1250	57,550
GS-C YDE 16	991116005510051	1600	76,670
GS-C YDE 20	991120005510051	2000	108,760
GS-C YDE 25	991125005510051	2500	125,230
GS-C YDE 33	991133005510101	3200	153,340
GS-C YDE 41	991141005510101	4000	250,460
GS-C YDE 50	991150005510151	5000	319,900
GS-C YDE 60	991160005510151	6000	362,550



Genleşme elemanı, her 40 mt. de bir uygulanır.

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

يجب دمج عنصر وصلة التمديد في خط الطول المستقيم كل 40 أو  
عندما يتم توسعة المبنى

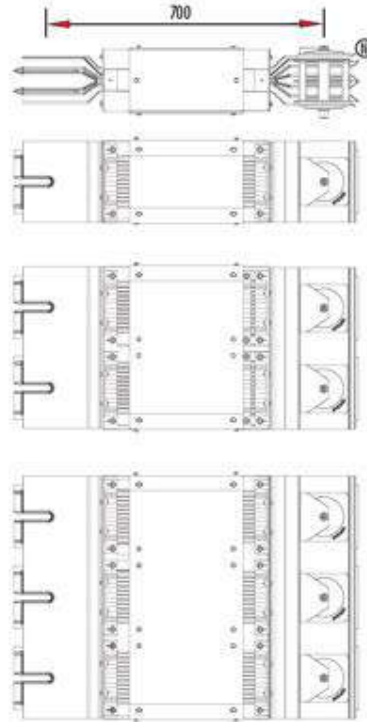
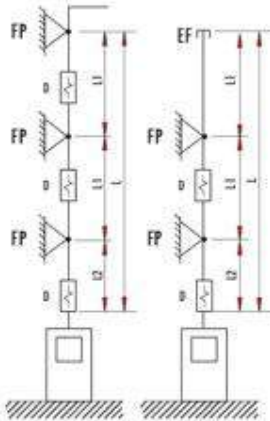
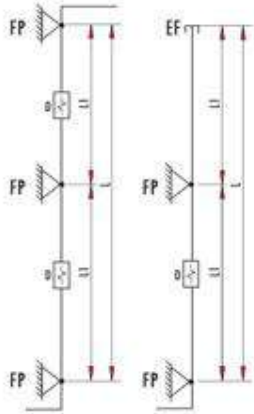


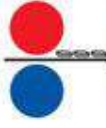
DIKEY DILATASYON ELEMANI 3P+N+1/2 PE Vertical Expansion Element 3P+N+1/2 PE عنصر التمديد الراسي 3P+N+1/2 PE



GS-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ampere A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GS-A DDE 05	981105005520051	500	14,080
GS-A DDE 06	981106305520051	630	14,080
GS-A DDE 08	981108005520051	800	14,080
GS-A DDE 10	981110005520051	1000	15,970
GS-A DDE 12	981112505520051	1250	20,130
GS-A DDE 16	981116005520051	1600	24,460
GS-A DDE 20	981120005520051	2000	27,780
GS-A DDE 26	981126005520101	2500	40,260
GS-A DDE 33	981133005520101	3200	48,920
GS-A DDE 41	981141005520101	4000	56,490
GS-A DDE 50	981150005520151	5000	85,210

GS-C			
GS-C DDE 05	991105005510052	500	22,380
GS-C DDE 06	991106305510052	630	22,380
GS-C DDE 08	991108005510052	800	22,380
GS-C DDE 10	991110005510052	1000	22,380
GS-C DDE 12	991112505510052	1250	27,320
GS-C DDE 16	991116005510052	1600	36,710
GS-C DDE 20	991120005510052	2000	49,640
GS-C DDE 25	991125005510052	2500	54,850
GS-C DDE 33	991133005510102	3200	73,420
GS-C DDE 41	991141005510102	4000	109,300
GS-C DDE 50	991150005510152	5000	160,840
GS-C DDE 60	991160005510152	6000	179,637



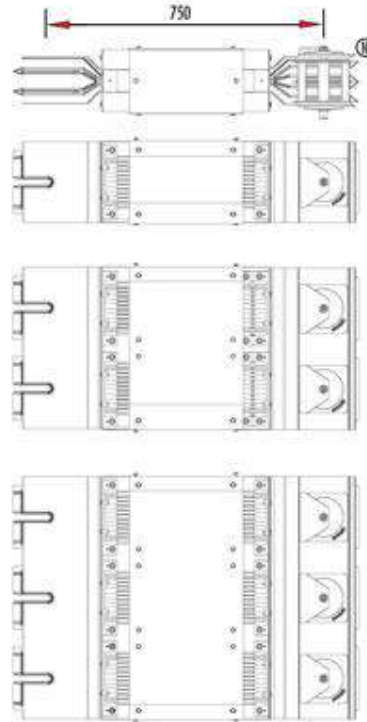
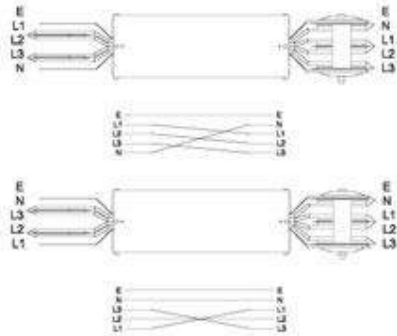


FAZ-NÖTR YÖN DEĞİŞTİRME ELEMANI 3P+N+1/2 PE Phase-Neutral Transposition Element 3P+N+1/2 PE اداة تغيير القطب – المحاييد 3P+N+1/2 PE



GS-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A A	Ağırlık (Kg/ed) Weight (Kg/unit) الوزن (كجم / الوحدة)
GS-A PDC 05	987005005520050	500	14,080
GS-A PDC 06	987006305520050	630	14,080
GS-A PDC 08	987008005520050	800	14,080
GS-A PDC 10	987010005520050	1000	15,970
GS-A PDC 12	987012505520050	1250	20,130
GS-A PDC 16	987016005520050	1600	24,460
GS-A PDC 20	987020005520050	2000	27,780
GS-A PDC 26	987026005520100	2500	40,260
GS-A PDC 33	987033005520100	3200	48,920
GS-A PDC 41	987041005520100	4000	56,490
GS-A PDC 50	987050005520150	5000	85,210

GS-C			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A A	Ağırlık (Kg/ed) Weight (Kg/unit) الوزن (كجم / الوحدة)
GS-C PDC 05	997005005510051	500	22,380
GS-C PDC 06	997006305510051	630	22,380
GS-C PDC 08	997008005510051	800	22,380
GS-C PDC 10	997010005510051	1000	22,380
GS-C PDC 12	997012505510051	1250	27,320
GS-C PDC 16	997016005510051	1600	36,710
GS-C PDC 20	997020005510051	2000	49,640
GS-C PDC 25	997025005510051	2500	54,850
GS-C PDC 33	997033005510101	3200	73,420
GS-C PDC 41	997041005510101	4000	109,300
GS-C PDC 50	997050005510151	5000	160,840
GS-C PDC 60	997060005510151	6000	179,637



## SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ



Süper Compact Busbar Trunking Systems  
انظمة البسبار المضغوطة المدمجة

KURUTİP TRAFÖ ÜSTÜ ELEMANI (SAĞ) 3P+N+1/2 PE Cast Resin Transformer Element (Right) 3P+N+1/2 PE (يمين) عنصر محول كاست ريزين (يمين)



### GS-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	Ampere A	Ağırlık (Kg/mt) Weight (kg/mtr) وزن (كجم المتر)
GS-A P1S 05R	98090 500 55200 50	500	22,460
GS-A P1S 06R	98090 630 55200 50	630	22,460
GS-A P1S 08R	98090 800 55200 50	800	22,460
GS-A P1S 10R	98091000 55200 50	1000	24,830
GS-A P1S 12R	98091250 55200 50	1250	33,850
GS-A P1S 16R	98091600 55200 50	1600	39,150
GS-A P1S 20R	98092000 55200 50	2000	43,980
GS-A P1S 26R	98092600 5520100	2500	67,300
GS-A P1S 33R	98093300 5520100	3200	78,300
GS-A P1S 41R	98094100 5520100	4000	96,710
GS-A P1S 50R	98095000 55201 50	5000	153,500

### GS-C

GS-C P1S 05R	99090 500 55100 51	500	33,370
GS-C P1S 06R	99090 630 55100 51	630	33,370
GS-C P1S 08R	99090 800 55100 51	800	33,370
GS-C P1S 10R	99091000 55100 51	1000	33,370
GS-C P1S 12R	99091250 55100 51	1250	39,750
GS-C P1S 16R	99091600 55100 51	1600	55,620
GS-C P1S 20R	99092000 55100 51	2000	71,850
GS-C P1S 25R	99092500 55100 51	2500	79,570
GS-C P1S 33R	99093300 5510101	3200	111,240
GS-C P1S 41R	99094100 5510101	4000	159,140
GS-C P1S 50R	99095000 55101 51	5000	280,140
GS-C P1S 60R	99096000 55101 51	6000	316,190

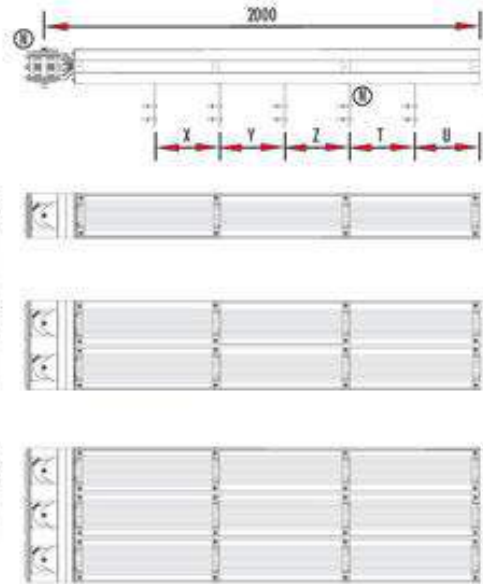
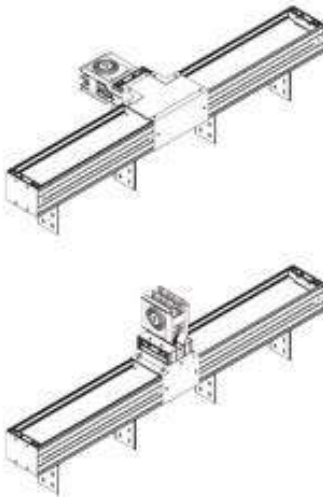
Kurutip trafö modelleri için geliştirilmiştir. Başlangıç orijinal ölçülerin trafö tipleri için değiştirilmesinde sipariş X, Y, Z ölçülerini ve özel yivlerini mutlaka belirtiniz.

This material is designed for Cast Resin type transformer models. Because of different variety of the transformers X, Y and Z can change. Please inform these lengths and the special size when ordering.  
هذه المادة مصممة للترافو محولات كاست ريزين. بسبب اختلاف  
المحول الراس في X, Y, Z يمكن ان تتغير. برجاء ذكر تلك الابعاد  
وطريقة المثب للمعاينة عند الطلب.

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

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

الرجاء اذكر طلباتكم عن مبدائكم الخاصة = العمودية + افقية او التزاوية الخاصة للطلبات



## SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ



## Süper Compact Busbar Trunking Systems انظمة البسبار المضغوطة المدمجة

KURUTİP TRAFÖ ÜSTÜ ELEMANI (SOL) 3P+N+1/2 PE Cast Resin Transformer Element (Left) 3P+N+1/2 PE (بیسار) عنصر محول کاست ریزین (بیسار) 3P+N+1/2 PE



### GS-A

Spary kodu Order code رسم العنصر	Stok kodu Stock code رسم المخزون	Ampere A	Ağırlık (Kg/mt) Weight (Kg/foot) وزن (كجم المتر)
GS-A P1S 05L	980 90 500 55200 51	500	19,810
GS-A P1S 06L	980 90 630 55200 51	630	19,810
GS-A P1S 08L	980 90 800 55200 51	800	19,810
GS-A P1S 10L	980 91 000 55200 51	1000	22,110
GS-A P1S 12L	980 91 250 55200 51	1250	30,530
GS-A P1S 16L	980 91 600 55200 51	1600	35,740
GS-A P1S 20L	980 92 000 55200 51	2000	39,810
GS-A P1S 26L	980 92 600 55201 01	2500	61,060
GS-A P1S 33L	980 93 300 55201 01	3200	71,480
GS-A P1S 41L	980 94 100 55201 01	4000	89,590
GS-A P1S 50L	980 95 000 55201 51	5000	143,420

### GS-C

GS-C P1S 05L	990 90 500 55100 52	500	30,720
GS-C P1S 06L	990 90 630 55100 52	630	30,720
GS-C P1S 08L	990 90 800 55100 52	800	30,720
GS-C P1S 10L	990 91 000 55100 52	1000	30,720
GS-C P1S 12L	990 91 250 55100 52	1250	37,030
GS-C P1S 16L	990 91 600 55100 52	1600	52,300
GS-C P1S 20L	990 92 000 55100 52	2000	68,440
GS-C P1S 25L	990 92 500 55100 52	2500	75,850
GS-C P1S 33L	990 93 300 55101 02	3200	104,600
GS-C P1S 41L	990 94 100 55101 02	4000	151,300
GS-C P1S 50L	990 95 000 55101 52	5000	270,840
GS-C P1S 60L	990 96 000 55101 52	6000	306,250

Kurutip trafo modelleri için geçerlidir. Başlangıç aralık ölçüleri trafo tipleri için dağılımından sipariş X, Y, Z ölçülerini ve diğer yansımaları mutlaka belirtiniz.

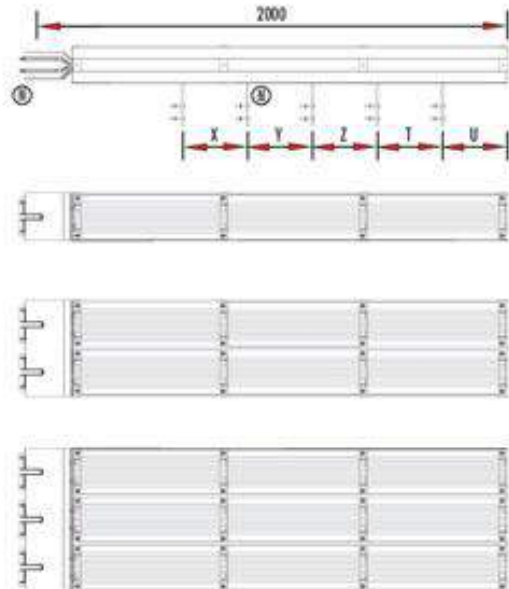
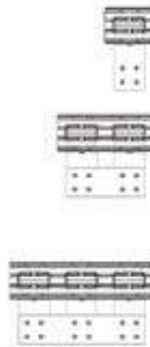
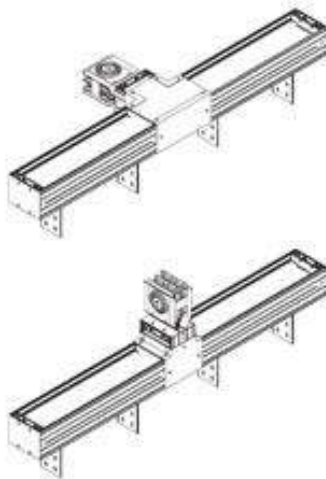
This material is designed for Cast Resin type transformer models. Because of different variety of the transformer X, Y and Z size design. Please inform these lengths and the neutral side when ordering.

هذه المادة مصممة لنوع محولات كاست ريزين بسبب اختلاف  
المحول الراسي في X, Y, Z يمكن أن تكون. يرجى ذكر تلك الأبعاد  
وطبيعة العنصر، عند الطلب.

Siparişlerde özel açılış veya dikey + yatay kombinasyonları için iletişime geçiniz.

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

الرجاء ذكر طلباتكم عن مجموعات الأبعاد + العمودية أو الزوايا الخاصة للمحولات

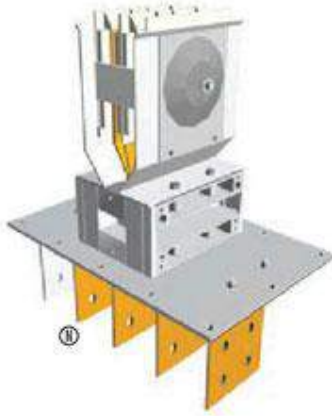


## SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ



Süper Compact Busbar Trunking Systems  
انظمة البيسار المضغوطة المدمجة

PANO - TRAFO ÜSTÜ ELEMANI (SAĞ) 3P+N+1/2 PE Panel - Transformer Side Element (Right) 3P+N+1/2 PE (يمين) عنصر محول جانبي (يمين) 3P+N+1/2 PE

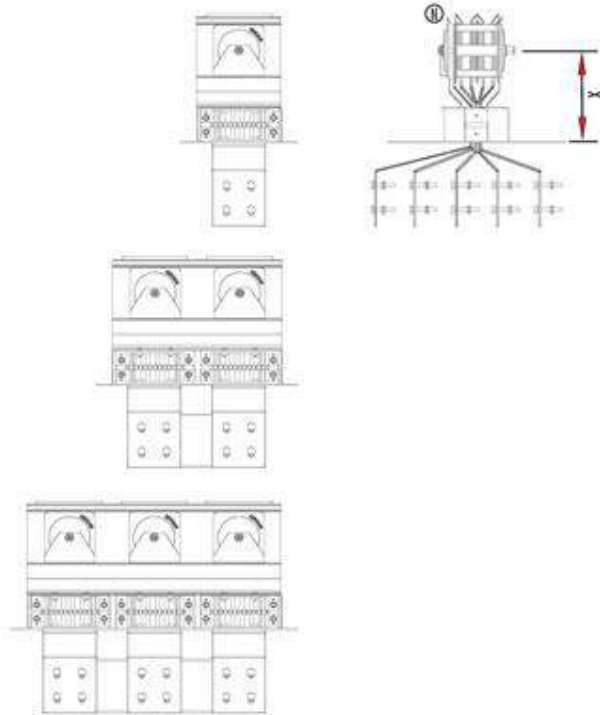


### GS-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A	x mm	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GS-A TS 05R	980705005520050	500	220	12,800
GS-A TS 06R	980706305520050	630	220	12,800
GS-A TS 08R	980708005520050	800	220	12,800
GS-A TS 10R	980710005520050	1000	220	14,200
GS-A TS 12R	980712505520050	1250	220	17,250
GS-A TS 16R	980716005520050	1600	220	19,890
GS-A TS 20R	980720005520050	2000	220	23,010
GS-A TS 26R	980726005520100	2500	220	34,500
GS-A TS 33R	980733005520100	3200	220	29,780
GS-A TS 41R	980741005520100	4000	220	43,000
GS-A TS 50R	980750005520150	5000	220	60,850

### GS-C

GS-C TS 05R	990705005510051	500	220	17,920
GS-C TS 06R	990706305510051	630	220	17,920
GS-C TS 08R	990708005510051	800	220	17,920
GS-C TS 10R	990710005510051	1000	220	17,920
GS-C TS 12R	990712505510051	1250	220	21,210
GS-C TS 16R	990716005510051	1600	220	27,470
GS-C TS 20R	990720005510051	2000	220	35,480
GS-C TS 25R	990725005510051	2500	220	40,710
GS-C TS 33R	990733005510101	3200	220	54,940
GS-C TS 41R	990741005510101	4000	220	81,420
GS-C TS 50R	990750005510151	5000	220	103,290
GS-C TS 60R	990760005510151	6000	220	113,950



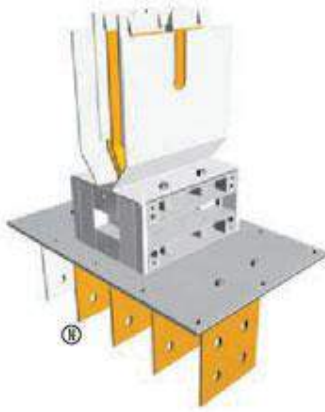


# SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ



Süper Compact Busbar Trunking Systems  
 أنظمة البيسبار المضغوطة المدمجة

PANO - TRAFİO ÜSTÜ ELEMANI (SOL) 3P+N+1/2 PE Panel - Transformer Side Element (Left) 3P+N+1/2 PE عنصر محول جانبي (يسار) 3P+N+1/2 PE

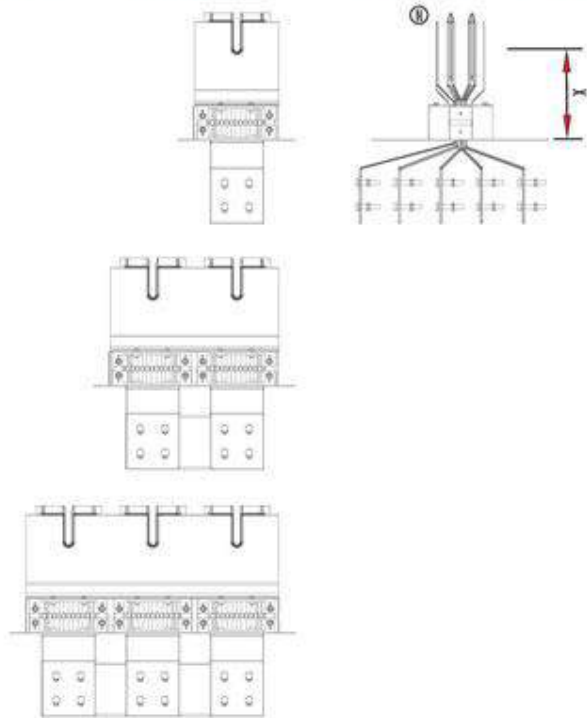


## GS-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A	X mm	Ağırlık (Kg/od) Weight (Kg/Unit) (الوزن (كجم / الوحدة)
GS-A TS 05L	980 70500 5520051	500	220	10,150
GS-A TS 06L	980 70630 5520051	630	220	10,150
GS-A TS 08L	980 70800 5520051	800	220	10,150
GS-A TS 10L	980 71000 5520051	1000	220	11,360
GS-A TS 12L	980 71250 5520051	1250	220	13,960
GS-A TS 16L	980 71600 5520051	1600	220	16,480
GS-A TS 20L	980 72000 5520051	2000	220	18,840
GS-A TS 26L	980 72600 5520101	2500	220	27,920
GS-A TS 33L	980 73300 5520101	3200	220	32,960
GS-A TS 41L	980 74100 5520101	4000	220	35,870
GS-A TS 50L	980 75000 5520151	5000	220	50,780

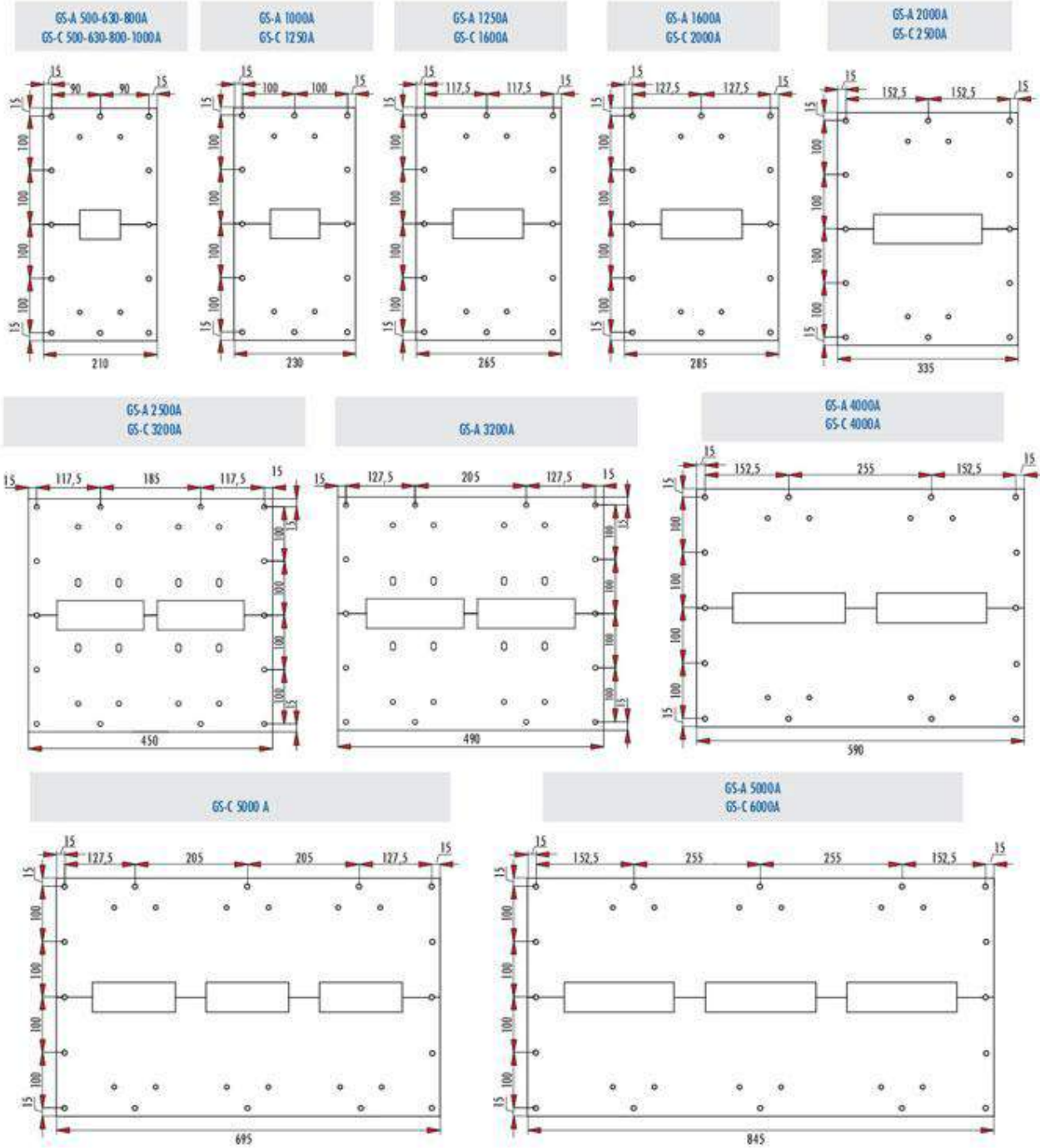
## GS-C

GS-C TS 05L	990 70500 5510052	500	220	15,280
GS-C TS 06L	990 70630 5510052	630	220	15,280
GS-C TS 08L	990 70800 5510052	800	220	15,280
GS-C TS 10L	990 71000 5510052	1000	220	15,280
GS-C TS 12L	990 71250 5510052	1250	220	18,360
GS-C TS 16L	990 71600 5510052	1600	220	24,150
GS-C TS 20L	990 72000 5510052	2000	220	32,070
GS-C TS 25L	990 72500 5510052	2500	220	37,000
GS-C TS 33L	990 73300 5510102	3200	220	48,300
GS-C TS 41L	990 74100 5510102	4000	220	74,000
GS-C TS 50L	990 75000 5510152	5000	220	93,860
GS-C TS 60L	990 76000 5510152	6000	220	103,880



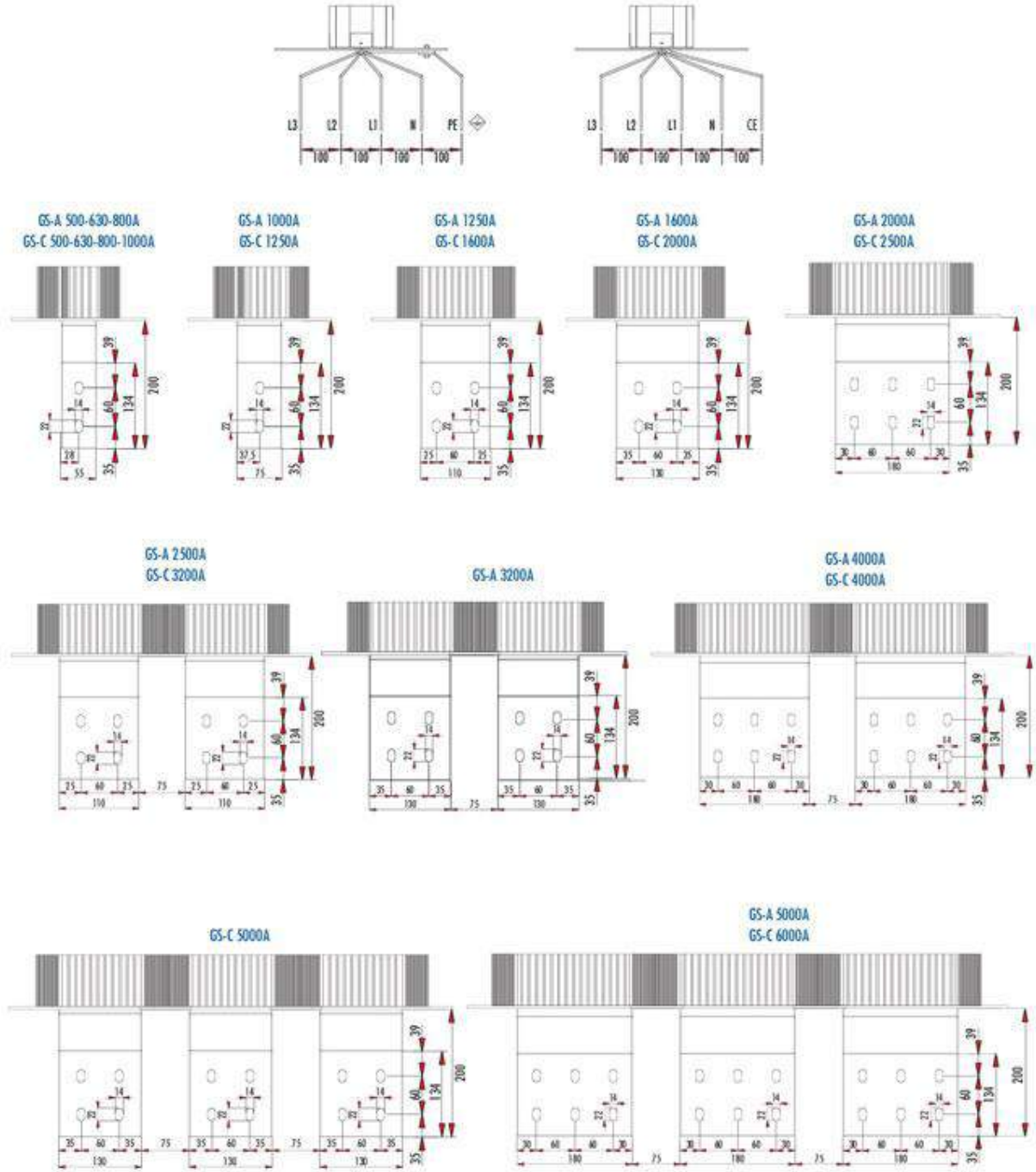


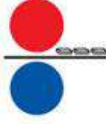
PANO ve TRAFİO ÜSTÜ ELEMANININ TEKNİK DETAYLARI *Technical Details of Switchboard Feed and Transformer Side Element*  
التفاصيل الفنية للوحة توزيع المغذي وعنصر المحول الجانبي



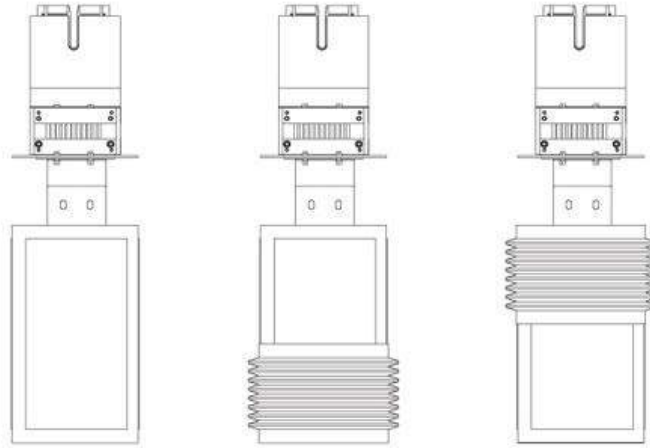
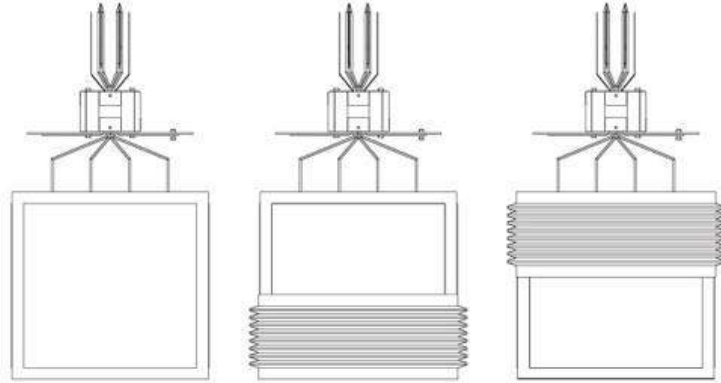
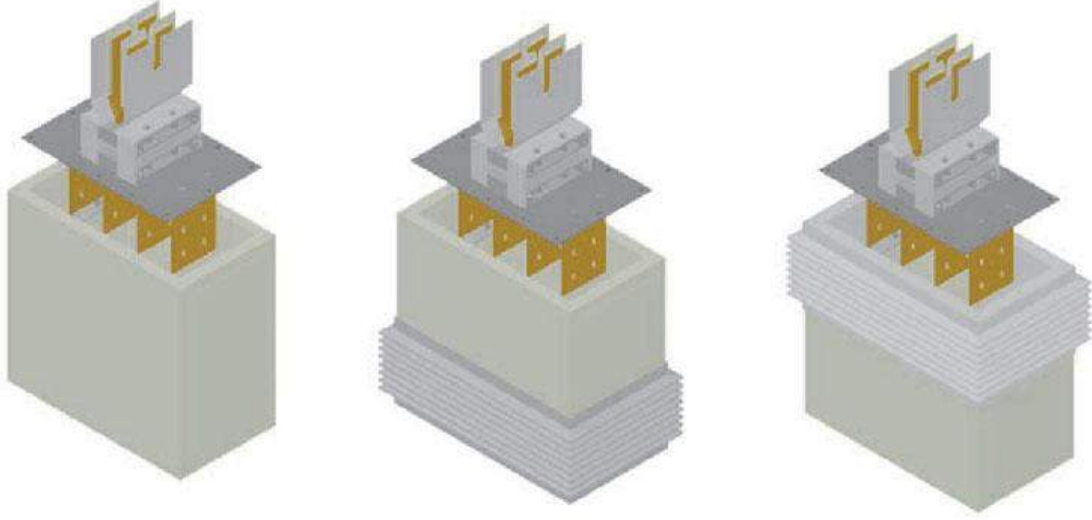


PANO ve TRAF0 ÜSTÜ ELEMANININ TEKNİK DETAYLARI *Technical Details of Switchboard Feed and Transformer Side Element*  
التفاصيل الفنية للوحة توزيع المغذي وعنصر المحول الجانبي



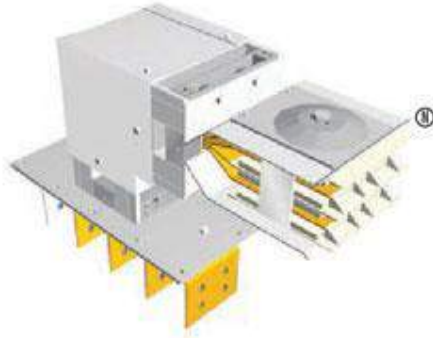


PANO ve TRAF0 ÜSTÜ ELEMENİNİN TEKNİK DETAYLARI *Technical Details of Switchboard Feed and Transformer Side Element*  
التفاصيل الفنية للوحة توزيع المغذي وعنصر المحول الجانبي





PANO - TRAFO ÜSTÜ 90° DIKEY DÖNÜŞ ELEMANI (SAĞ) 3P+N+1/2 PE Panel - Transformer Side 90° Vertical Elbow Element (Right) 3P+N+1/2 PE  
(لوحة جانبية + 90 درجة عنصر كوع رأسي (يمين))

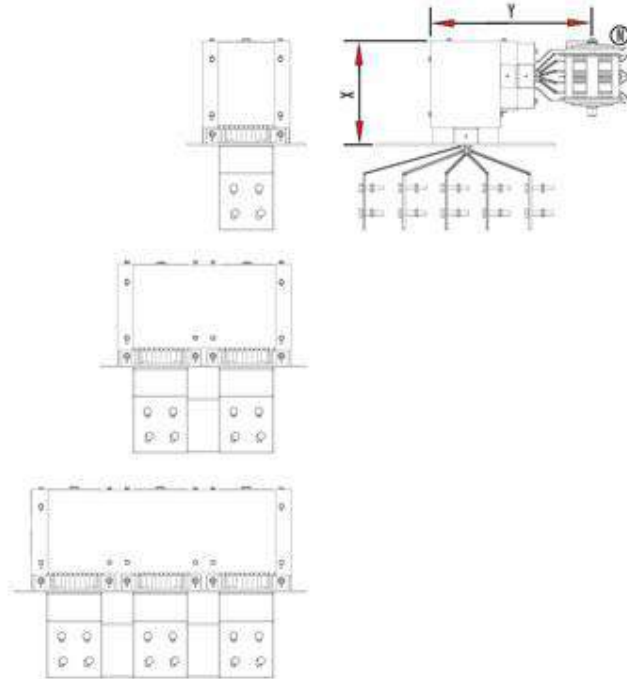


GS-A

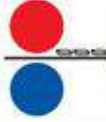
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A A	X mm	Y mm	Ağırlık (Kg/ada) Weight (Kg/one) الوزن (كجم / الوحدة)
GS-A PVE 05RR	984005005520050	500	245	380	17,560
GS-A PVE 06RR	984006305520050	630	245	380	17,560
GS-A PVE 08RR	984008005520050	800	245	380	17,560
GS-A PVE 10RR	984010005520050	1000	245	380	19,180
GS-A PVE 12RR	984012505520050	1250	245	380	23,660
GS-A PVE 16RR	984016005520050	1600	245	380	27,570
GS-A PVE 20RR	984020005520050	2000	245	380	31,120
GS-A PVE 26RR	984026005520100	2500	245	380	47,320
GS-A PVE 33RR	984033005520100	3200	245	380	55,140
GS-A PVE 41RR	984041005520100	4000	245	380	59,170
GS-A PVE 50RR	984050005520150	5000	245	380	84,520

GS-C

GS-C PVE 05RR	994005005510051	500	245	380	25,300
GS-C PVE 06RR	994006305510051	630	245	380	25,300
GS-C PVE 08RR	994008005510051	800	245	380	25,300
GS-C PVE 10RR	994010005510051	1000	245	380	25,300
GS-C PVE 12RR	994012505510051	1250	245	380	29,770
GS-C PVE 16RR	994016005510051	1600	245	380	39,110
GS-C PVE 20RR	994020005510051	2000	245	380	51,170
GS-C PVE 25RR	994025005510051	2500	245	380	56,370
GS-C PVE 33RR	994033005510101	3200	245	380	78,220
GS-C PVE 41RR	994041005510101	4000	245	380	112,740
GS-C PVE 50RR	994050005510151	5000	245	380	151,010
GS-C PVE 60RR	994060005510151	6000	245	380	160,280



## SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ



Süper Compact Busbar Trunking Systems  
انظمة البيسار المضغوطة المدمجة

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  
لوحة جانبية + 90 درجة عنصر كوع رأسي (يسار) 3P+N+1/2 PE

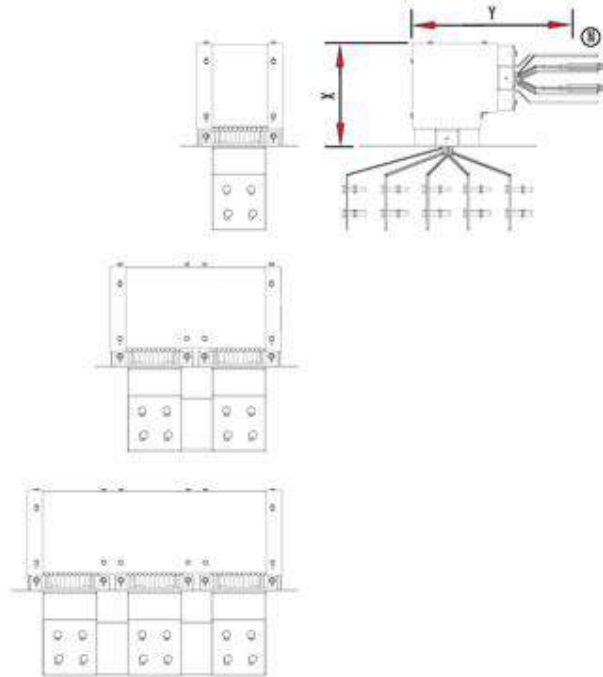


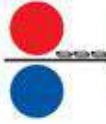
### GS-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	Amper A	X mm	Y mm	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GS-A PVE 05RL	984005005520052	500	245	380	14,940
GS-A PVE 06RL	984006305520052	630	245	380	14,940
GS-A PVE 08RL	984008005520052	800	245	380	14,940
GS-A PVE 10RL	984010005520052	1000	245	380	16,490
GS-A PVE 12RL	984012505520052	1250	245	380	20,370
GS-A PVE 16RL	984016005520052	1600	245	380	24,200
GS-A PVE 20RL	984020005520052	2000	245	380	27,000
GS-A PVE 26RL	984026005520102	2500	245	380	40,740
GS-A PVE 33RL	984033005520102	3200	245	380	48,400
GS-A PVE 41RL	984041005520102	4000	245	380	52,150
GS-A PVE 50RL	984050005520152	5000	245	380	74,600

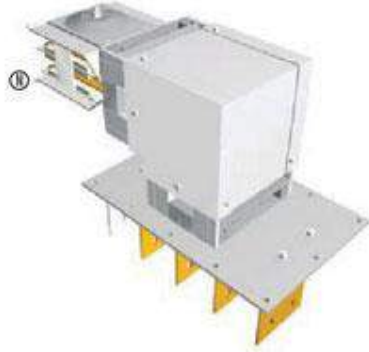
### GS-C

GS-C PVE 05RL	994005005510053	500	245	380	22,680
GS-C PVE 06RL	994006305510053	630	245	380	22,680
GS-C PVE 08RL	994008005510053	800	245	380	22,680
GS-C PVE 10RL	994010005510053	1000	245	380	22,680
GS-C PVE 12RL	994012505510053	1250	245	380	27,070
GS-C PVE 16RL	994016005510053	1600	245	380	35,810
GS-C PVE 20RL	994020005510053	2000	245	380	47,800
GS-C PVE 25RL	994025005510053	2500	245	380	52,250
GS-C PVE 33RL	994033005510103	3200	245	380	71,620
GS-C PVE 41RL	994141005510103	4000	245	380	104,500
GS-C PVE 50RL	994050005510153	5000	245	380	142,050
GS-C PVE 60RL	994060005510153	6000	245	380	150,360





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  
(لوحة جانبية + 90 درجة عنصر كوع رأسي (يمين) 3P+N+1/2 PE)

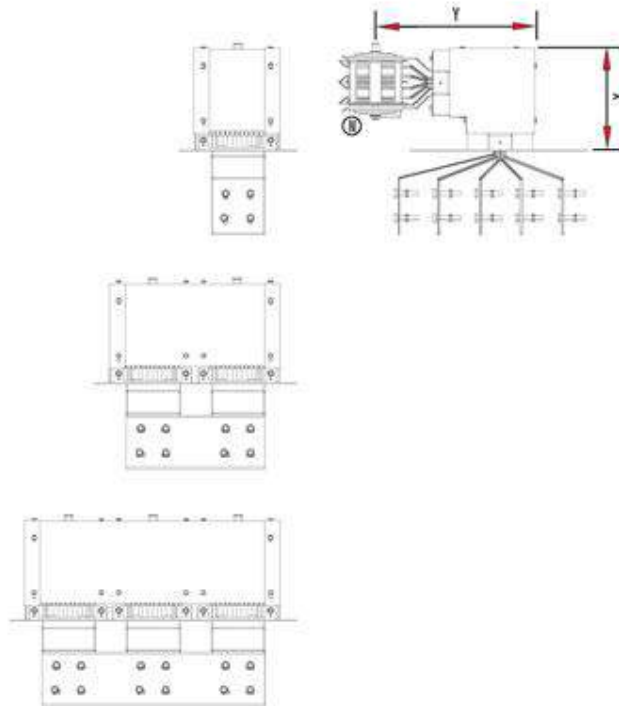


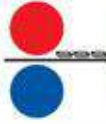
GS-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	Amper A A	X mm	Y mm	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GS-A PVE 05LR	984 10 500 55200 50	500	245	380	17,560
GS-A PVE 06LR	984 10 630 55200 50	630	245	380	17,560
GS-A PVE 08LR	984 10 800 55200 50	800	245	380	17,560
GS-A PVE 10LR	984 11 000 55200 50	1000	245	380	19,180
GS-A PVE 12LR	984 11 250 55200 50	1250	245	380	23,660
GS-A PVE 16LR	984 11 600 55200 50	1600	245	380	27,570
GS-A PVE 20LR	984 12 000 55200 50	2000	245	380	31,120
GS-A PVE 26LR	984 12 600 55201 00	2500	245	380	47,320
GS-A PVE 33LR	984 13 300 55201 00	3200	245	380	55,140
GS-A PVE 41LR	984 14 100 55201 00	4000	245	380	59,170
GS-A PVE 50LR	984 15 000 55201 50	5000	245	380	84,520

GS-C

GS-C PVE 05LR	994 10 500 55100 51	500	245	380	22,680
GS-C PVE 06LR	994 10 630 55100 51	630	245	380	22,680
GS-C PVE 08LR	994 10 800 55100 51	800	245	380	22,680
GS-C PVE 10LR	994 11 000 55100 51	1000	245	380	22,680
GS-C PVE 12LR	994 11 250 55100 51	1250	245	380	27,070
GS-C PVE 16LR	994 11 600 55100 51	1600	245	380	35,810
GS-C PVE 20LR	994 12 000 55100 51	2000	245	380	47,800
GS-C PVE 25LR	994 12 500 55100 51	2500	245	380	52,250
GS-C PVE 33LR	994 13 300 55101 01	3200	245	380	71,620
GS-C PVE 41LR	994 14 100 55101 01	4000	245	380	104,500
GS-C PVE 50LR	994 15 000 55101 51	5000	245	380	142,050
GS-C PVE 60LR	994 16 000 55101 51	6000	245	380	150,360





PANO - TRAFÖ ÜSTÜ 90° DIKEY DÖNÜŞ ELEMANI (SOL) 3P+N+1/2 PE Panel - Transformer Side 90° Vertical Elbow Element (Left) 3P+N+1/2 PE  
(يسار) لوحة جانبية 90 درجة عنصر كوخ رأسي (يسار) 3P+N+1/2 PE

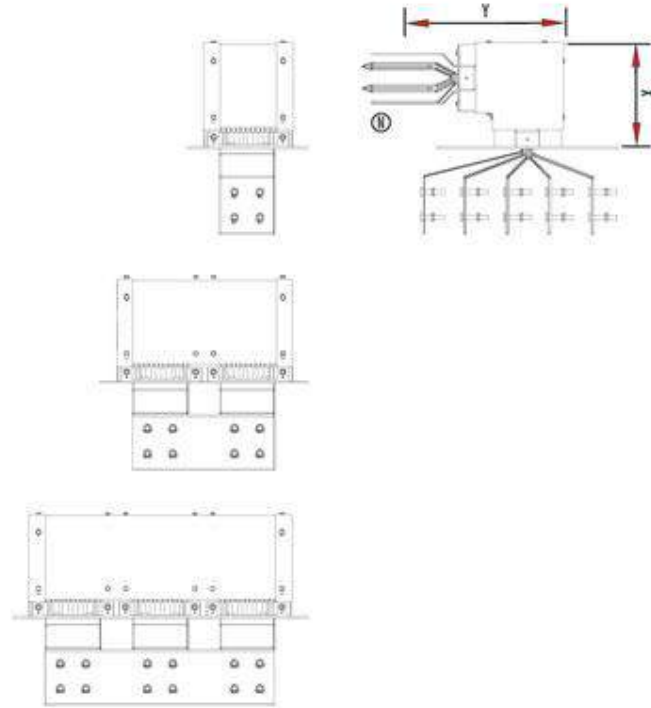


GS-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A	X mm	Y mm	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GS-A PVE 05LL	984 10 500 55200 52	500	245	380	14,940
GS-A PVE 06LL	984 10 630 55200 52	630	245	380	14,940
GS-A PVE 08LL	984 10 800 55200 52	800	245	380	14,940
GS-A PVE 10LL	984 11 000 55200 52	1000	245	380	16,490
GS-A PVE 12LL	984 11 250 55200 52	1250	245	380	20,370
GS-A PVE 16LL	984 11 600 55200 52	1600	245	380	24,200
GS-A PVE 20LL	984 12 000 55200 52	2000	245	380	27,000
GS-A PVE 26LL	984 12 600 55201 02	2500	245	380	40,740
GS-A PVE 33LL	984 13 300 55201 02	3200	245	380	48,400
GS-A PVE 41LL	984 14 100 55201 02	4000	245	380	52,150
GS-A PVE 50LL	984 15 000 55201 52	5000	245	380	74,600

GS-C

GS-C PVE 05LL	994 10 500 55100 53	500	245	380	22,680
GS-C PVE 06LL	994 10 630 55100 53	630	245	380	22,680
GS-C PVE 08LL	994 10 800 55100 53	800	245	380	22,680
GS-C PVE 10LL	994 11 000 55100 53	1000	245	380	22,680
GS-C PVE 12LL	994 11 250 55100 53	1250	245	380	27,070
GS-C PVE 16LL	994 11 600 55100 53	1600	245	380	35,810
GS-C PVE 20LL	994 12 000 55100 53	2000	245	380	47,800
GS-C PVE 25LL	994 12 500 55100 53	2500	245	380	52,250
GS-C PVE 33LL	994 13 300 55101 03	3200	245	380	71,620
GS-C PVE 41LL	994 14 100 55101 03	4000	245	380	104,500
GS-C PVE 50LL	994 15 000 55101 53	5000	245	380	142,050
GS-C PVE 60LL	994 16 000 55101 53	6000	245	380	150,360







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  
(لوحة جانبية + 90 درجة عنصر كوح القلي (يمين) 3P+N+1/2 PE

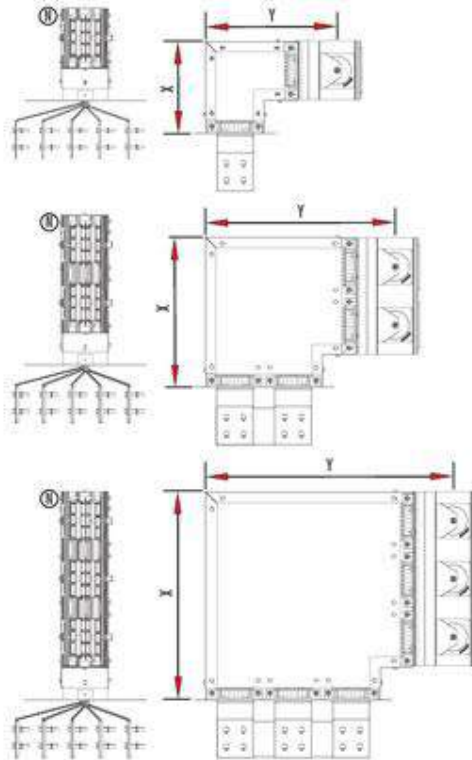


GS A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	Amper A	X mm	Y mm	Ağırlık (Kg/ad) Weight (Kg/unit) (الوزن (كجم / الوحدة)
GS-A PHE 05RR	984405005520050	500	250	385	20,960
GS-A PHE 06RR	984406305520050	630	250	385	20,960
GS-A PHE 08RR	984408005520050	800	250	385	20,960
GS-A PHE 10RR	984410005520050	1000	265	410	23,130
GS-A PHE 12RR	984412505520050	1250	300	440	29,110
GS-A PHE 16RR	984416005520050	1600	320	460	34,290
GS-A PHE 20RR	984420005520050	2000	375	520	40,450
GS-A PHE 26RR	984426005520100	2500	485	625	58,220
GS-A PHE 33RR	984433005520100	3200	525	665	68,580
GS-A PHE 41RR	984441005520100	4000	630	775	86,170
GS-A PHE 50RR	984450005520150	5000	885	1030	136,000

GS C

GS-C PHE 05RR	994405005510051	500	250	385	29,260
GS-C PHE 06RR	994406305510051	630	250	385	29,260
GS-C PHE 08RR	994408005510051	800	250	385	29,260
GS-C PHE 10RR	994410005510051	1000	250	385	29,260
GS-C PHE 12RR	994412505510051	1250	265	410	35,350
GS-C PHE 16RR	994416005510051	1600	300	440	48,130
GS-C PHE 20RR	994420005510051	2000	320	460	63,940
GS-C PHE 25RR	994425005510051	2500	375	520	75,460
GS-C PHE 33RR	994433005510101	3200	485	625	96,260
GS-C PHE 41RR	994441005510101	4000	630	775	150,920
GS-C PHE 50RR	994450005510151	5000	730	870	242,240
GS-C PHE 60RR	994460005510151	6000	885	1030	287,200





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  
لوحة جانبية + 90 درجة عنصر كوع اعلى (يسار) 3P+N+1/2 PE

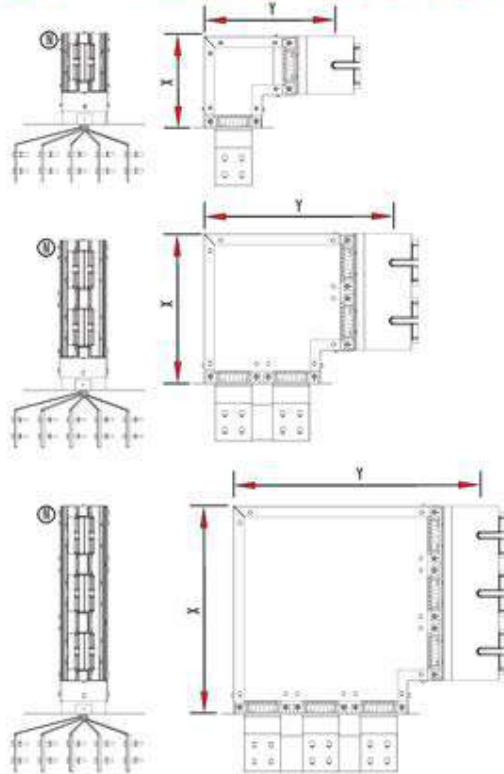


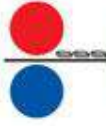
GS-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A	X mm	Y mm	Ağırlık (Kg/ad) Weight (Kg/cmt) الوزن (كجم/الوحدة)
GS-A PHE 05RL	984405005520051	500	250	385	18,310
GS-A PHE 06RL	984406305520051	630	250	385	18,310
GS-A PHE 08RL	984408005520051	800	250	385	18,310
GS-A PHE 10RL	984410005520051	1000	265	410	20,420
GS-A PHE 12RL	984412505520051	1250	300	440	25,790
GS-A PHE 16RL	984416005520051	1600	320	460	30,860
GS-A PHE 20RL	984420005520051	2000	375	520	36,280
GS-A PHE 26RL	984426005520101	2500	485	625	51,580
GS-A PHE 33RL	984433005520101	3200	525	665	61,720
GS-A PHE 41RL	984441005520101	4000	630	775	79,060
GS-A PHE 50RL	984450005520151	5000	885	1030	125,020

GS-C

GS-C PHE 05RL	994405005510053	500	250	385	26,610
GS-C PHE 06RL	994406305510053	630	250	385	26,610
GS-C PHE 08RL	994408005510053	800	250	385	26,610
GS-C PHE 10RL	994410005510053	1000	250	385	26,610
GS-C PHE 12RL	994412505510053	1250	265	410	32,240
GS-C PHE 16RL	994416005510053	1600	300	440	44,810
GS-C PHE 20RL	994420005510053	2000	320	460	60,540
GS-C PHE 25RL	994425005510053	2500	375	520	71,300
GS-C PHE 33RL	994433005510103	3200	485	625	89,620
GS-C PHE 41RL	994441005510103	4000	630	775	142,600
GS-C PHE 50RL	994450005510153	5000	730	870	232,810
GS-C PHE 60RL	994460005510153	6000	885	1030	227,120





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  
(لوحة جانبية + 90 درجة عنصر كوع لفي (يمين) 3P+N+1/2 PE

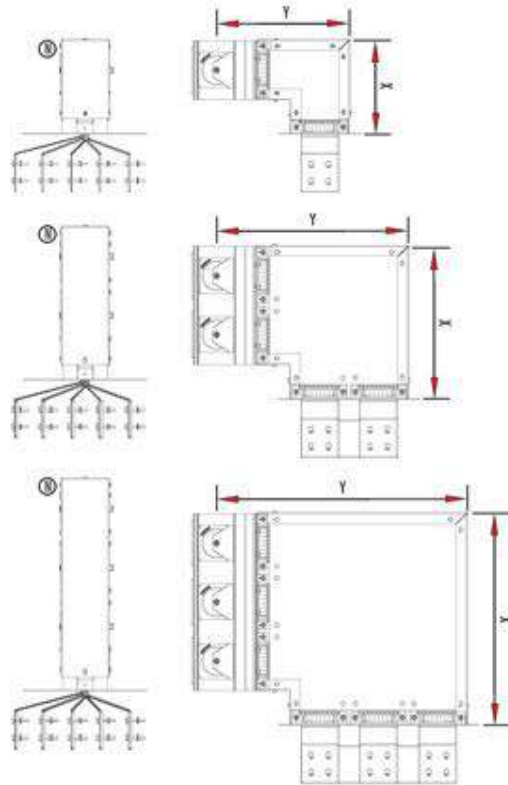


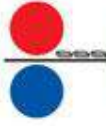
GS-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A	X mm	Y mm	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GS-A PHE 05LR	984505005520050	500	250	385	20,960
GS-A PHE 06LR	984506305520050	630	250	385	20,960
GS-A PHE 08LR	984508005520050	800	250	385	20,960
GS-A PHE 10LR	984510005520050	1000	265	410	23,130
GS-A PHE 12LR	984512505520050	1250	300	440	29,110
GS-A PHE 16LR	984516005520050	1600	320	460	34,290
GS-A PHE 20LR	984520005520050	2000	375	520	40,450
GS-A PHE 26LR	984526005520100	2500	485	625	58,220
GS-A PHE 33LR	984533005520100	3200	525	665	68,580
GS-A PHE 41LR	984541005520100	4000	630	775	86,170
GS-A PHE 50LR	984550005520150	5000	885	1030	136,000

GS-C

GS-C PHE 05LR	994505005510051	500	250	385	29,260
GS-C PHE 06LR	994506305510051	630	250	385	29,260
GS-C PHE 08LR	994508005510051	800	250	385	29,260
GS-C PHE 10LR	994510005510051	1000	250	385	29,260
GS-C PHE 12LR	994512505510051	1250	265	410	35,350
GS-C PHE 16LR	994516005510051	1600	300	440	48,130
GS-C PHE 20LR	994520005510051	2000	320	460	63,940
GS-C PHE 25LR	994525005510051	2500	375	520	75,460
GS-C PHE 33LR	994533005510101	3200	485	625	96,260
GS-C PHE 41LR	994541005510101	4000	630	775	151,260
GS-C PHE 50LR	994550005510151	5000	730	870	242,240
GS-C PHE 60LR	994560005510151	6000	885	1030	287,200





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  
(3P+N+1/2 PE لوحة جانبية + 90 درجة عنصر كوع أفقي (يسار))

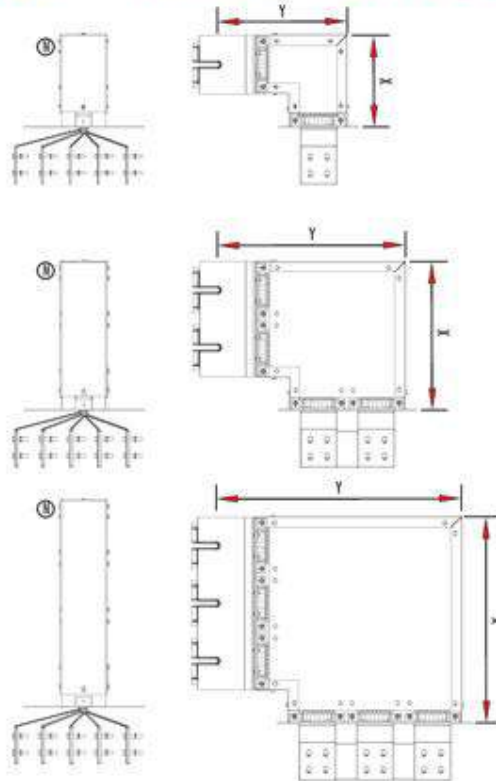


GS-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ampere A	X mm	Y mm	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GS-A PHE 05LL	984505005520052	500	250	385	18,310
GS-A PHE 05LL	984506305520052	630	250	385	18,310
GS-A PHE 08LL	984508005520052	800	250	385	18,310
GS-A PHE 10LL	984510005520052	1000	265	410	20,420
GS-A PHE 12LL	984512505520052	1250	300	440	25,790
GS-A PHE 16LL	984516005520052	1600	320	460	30,860
GS-A PHE 20LL	984520005520052	2000	375	520	36,280
GS-A PHE 26LL	984526005520102	2500	485	625	51,580
GS-A PHE 33LL	984533005520102	3200	525	665	61,720
GS-A PHE 41LL	984541005520102	4000	630	775	79,060
GS-A PHE 50LL	984550005520152	5000	885	1030	125,020

GS-C

GS-C PHE 05LL	994505005510053	500	250	385	26,610
GS-C PHE 06LL	994506305510053	630	250	385	26,610
GS-C PHE 08LL	994508005510053	800	250	385	26,610
GS-C PHE 10LL	994510005510053	1000	250	385	26,610
GS-C PHE 12LL	994512505510053	1250	265	410	32,240
GS-C PHE 16LL	994516005510053	1600	300	440	44,810
GS-C PHE 20LL	994520005510053	2000	320	460	60,540
GS-C PHE 25LL	994525005510053	2500	375	520	71,300
GS-C PHE 33LL	994533005510103	3200	485	625	89,620
GS-C PHE 41LL	994541005510103	4000	630	775	142,600
GS-C PHE 50LL	994550005510153	5000	730	870	232,810
GS-C PHE 60LL	994560005510153	6000	885	1030	227,120

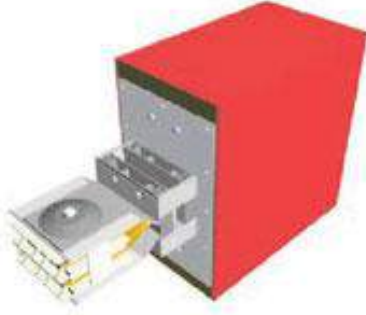


## SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ



Süper Compact Busbar Trunking Systems  
انظمة البسيار المضغوطة المتدمجة

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



### GS-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ampere A	X mm	Y mm	Z mm	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GS-A FE 05R	981 50500 5520050	500	220	230	500	23,040
GS-A FE 06R	981 50630 5520050	630	220	230	500	23,040
GS-A FE 08R	981 50800 5520050	800	220	230	500	23,040
GS-A FE 10R	981 51000 5520050	1000	220	250	500	24,860
GS-A FE 12R	981 51250 5520050	1250	220	285	500	28,630
GS-A FE 16R	981 51600 5520050	1600	220	305	500	31,680
GS-A FE 20R	981 52000 5520050	2000	220	355	500	35,830
GS-A FE 26R	981 52600 5520100	2500	220	470	500	57,260
GS-A FE 33R	981 53300 5520100	3200	220	510	500	63,360
GS-A FE 41R	981 54100 5520100	4000	220	610	500	63,030
GS-A FE 50R	981 55000 5520150	5000	220	865	500	88,080

### GS-C

GS-C FE 05R	991 50500 5510051	500	220	230	500	28,160
GS-C FE 06R	991 50630 5510051	630	220	230	500	28,160
GS-C FE 08R	991 50800 5510051	800	220	230	500	28,160
GS-C FE 10R	991 51000 5510051	1000	220	230	500	28,160
GS-C FE 12R	991 51250 5510051	1250	220	250	500	31,870
GS-C FE 16R	991 51600 5510051	1600	220	285	500	38,850
GS-C FE 20R	991 52000 5510051	2000	220	305	500	47,270
GS-C FE 25R	991 52500 5510051	2500	220	355	500	53,530
GS-C FE 33R	991 53300 5510101	3200	220	470	500	77,700
GS-C FE 41R	991 54100 5510101	4000	220	610	500	107,060
GS-C FE 50R	991 55000 5510151	5000	220	715	500	127,430
GS-C FE 60R	991 56000 5510151	6000	220	865	500	141,180

Şalter montajlı üretim için siparişte bilgi veriniz.

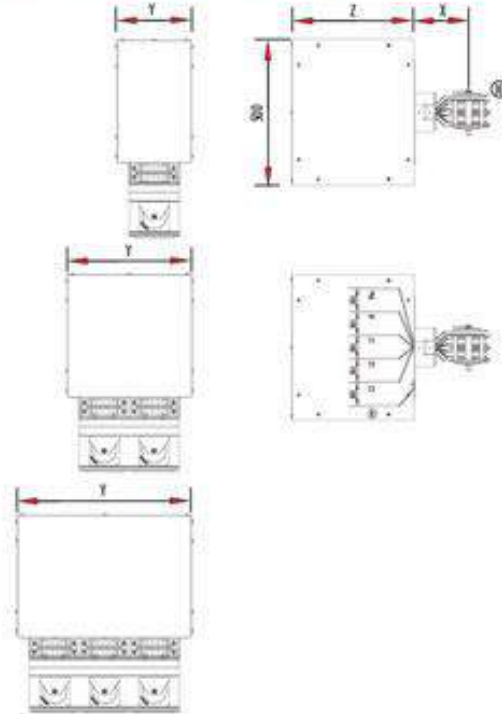
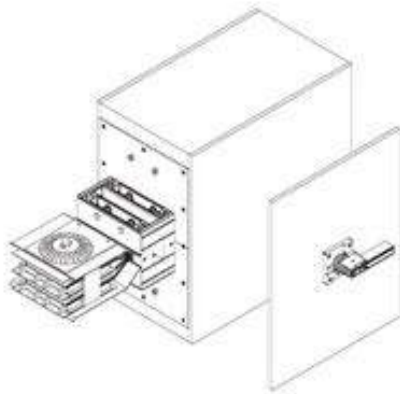
*It is available to use with circuit breaker. Please inform this when ordering.*

متوفر أيضا استخدام قاطعات الدائرة - يرجى ذكرها عند الطلب.

\* Besleme kutularının sekörleri için kabloların kesiti beliriniz.

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

يرجى تحديد أبعاد الكابل لتصاميم كوابل صندوق وحدات التغذية

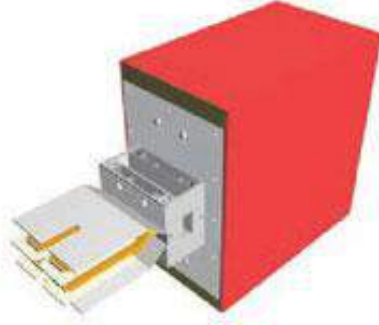


## SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ



Süper Compact Busbar Trunking Systems  
انظمة البسيار المضغوطة المتدمجة

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



### GS-A

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	Ampere A	X mm	Y mm	Z mm	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم/الوحدة)
GS-A FE 05L	981 50 500 5520051	500	220	230	500	20,390
GS-A FE 06L	981 50630 5520051	630	220	230	500	20,390
GS-A FE 08L	981 50800 5520051	800	220	230	500	20,390
GS-A FE 10L	981 51000 5520051	1000	220	250	500	22,020
GS-A FE 12L	981 51250 5520051	1250	220	285	500	25,340
GS-A FE 16L	981 51600 5520051	1600	220	305	500	28,270
GS-A FE 20L	981 52000 5520051	2000	220	355	500	31,660
GS-A FE 26L	981 52600 5520101	2500	220	470	500	50,680
GS-A FE 33L	981 53300 5520101	3200	220	510	500	56,540
GS-A FE 41L	981 54100 5520101	4000	220	610	500	55,900
GS-A FE 50L	981 55000 5520151	5000	220	865	500	78,010

### GS-C

GS-C FE 05L	991 50 500 5510052	500	220	230	500	25,520
GS-C FE 06L	991 50630 5510052	630	220	230	500	25,520
GS-C FE 08L	991 50800 5510052	800	220	230	500	25,520
GS-C FE 10L	991 51000 5510052	1000	220	230	500	25,520
GS-C FE 12L	991 51250 5510052	1250	220	250	500	29,020
GS-C FE 16L	991 51600 5510052	1600	220	285	500	35,530
GS-C FE 20L	991 52000 5510052	2000	220	305	500	43,860
GS-C FE 25L	991 52500 5510052	2500	220	355	500	49,810
GS-C FE 33L	991 53300 5510102	3200	220	470	500	71,060
GS-C FE 41L	991 54100 5510102	4000	220	610	500	99,620
GS-C FE 50L	991 55000 5510152	5000	220	715	500	118,000
GS-C FE 60L	991 56000 5510152	6000	220	865	500	131,110

Şalter montajlı üretim için siparişte bilgi veriniz.

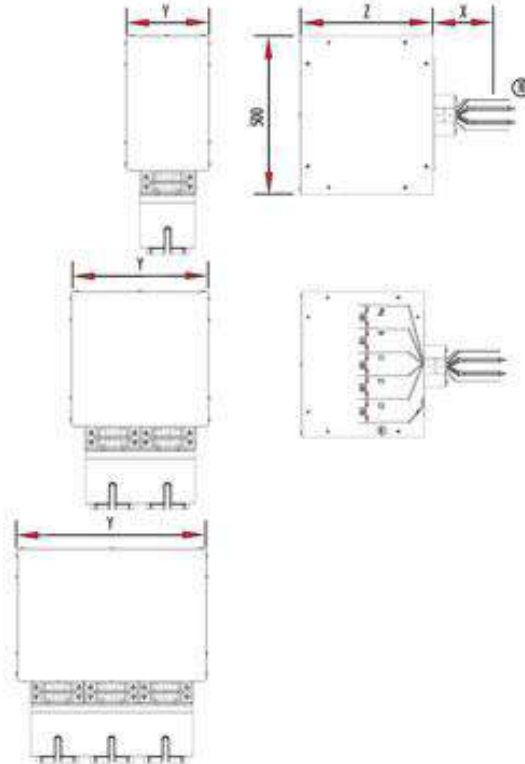
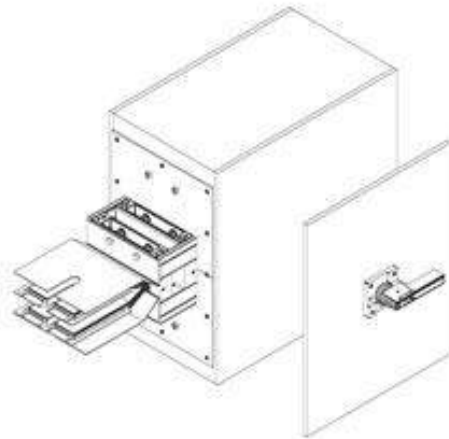
*It is available to use with circuit breaker. Please inform this when ordering.*

متوفر أيضا استخدام كاطعات الدائرة ، يرجى ذكرها عند الطلب

\* Besleme kutularının rakortları için lütfen kablo kesitini belirtiniz.

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

يرجى تحديد أبعاد الكابل لتوصيلات كابلات صندوق وحدات التغذية

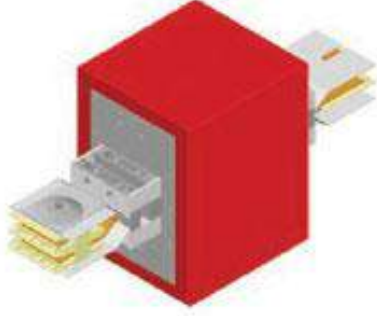


## SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ



Süper Compact Busbar Trunking Systems  
انظمة البسيار المضغوطة المتدمجة

ORTADAN BESLEME ELEMANI 3P+N+1/2 PE Centre Feed Unit 3P+N+1/2 PE وحدة التغذية (المركز) 3P+N+1/2 PE

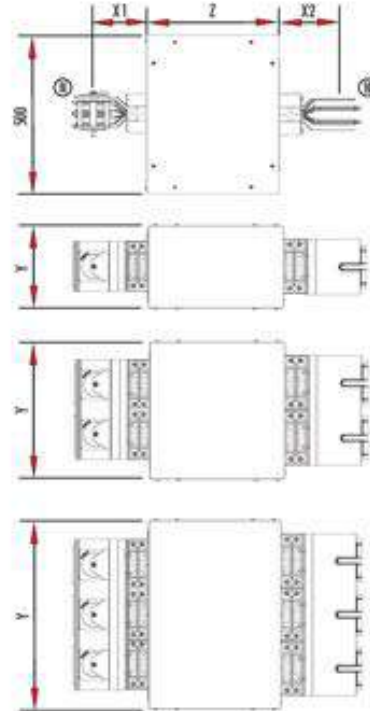
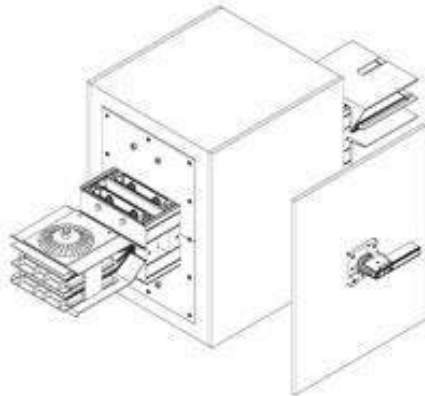
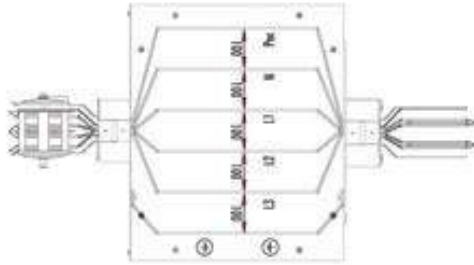


### GS-A

Sipariş kodo Order code رمز الطلب	Stok kodo Stock code رمز المخزن	Ampere A	X1 mm	X2 mm	Y mm	Z mm	Ağırlık (Kg/ada) Weight (Kg/unit) الوزن (كجم الوحدة)
GS-A CF 05	981805005520050	500	220	220	230	500	27,350
GS-A CF 06	981806305520050	630	220	220	230	500	27,350
GS-A CF 08	981808005520050	800	220	220	230	500	27,350
GS-A CF 10	981810005520050	1000	220	220	250	500	34,900
GS-A CF 12	981812505520050	1250	220	220	285	500	40,630
GS-A CF 16	981816005520050	1600	220	220	305	500	46,630
GS-A CF 20	981820005520050	2000	220	220	355	500	52,100
GS-A CF 26	981826005520100	2500	220	220	470	500	81,260
GS-A CF 33	981833005520100	3200	220	220	510	500	93,260
GS-A CF 41	981841005520100	4000	220	220	610	500	120,530
GS-A CF 50	981850005520150	5000	220	220	865	500	213,142

### GS-C

GS-C CF 05	991805005510051	500	220	220	230	500	42,000
GS-C CF 06	991806305510051	630	220	220	230	500	42,000
GS-C CF 08	991808005510051	800	220	220	230	500	42,000
GS-C CF 10	991810005510051	1000	220	220	230	500	42,000
GS-C CF 12	991812505510051	1250	220	220	250	500	49,600
GS-C CF 16	991816005510051	1600	220	220	285	500	62,130
GS-C CF 20	991820005510051	2000	220	220	305	500	79,200
GS-C CF 25	991825005510051	2500	220	220	355	500	87,180
GS-C CF 33	991833005510101	3200	220	220	470	500	124,260
GS-C CF 41	991841005510101	4000	220	220	610	500	174,360
GS-C CF 50	991850005510151	5000	220	220	715	500	406,611
GS-C CF 60	991860005510151	6000	220	220	865	500	495,100



## SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ



## Süper Compact Busbar Trunking Systems انظمة البسيار المضغوطة المدمجة

ESNEK BARA Flexible Bars

وحدة التغذية (يمين)



Trafo ve pano terminallerinin ara bağlantılarında kullanılmak üzere imal edilmektedir.

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

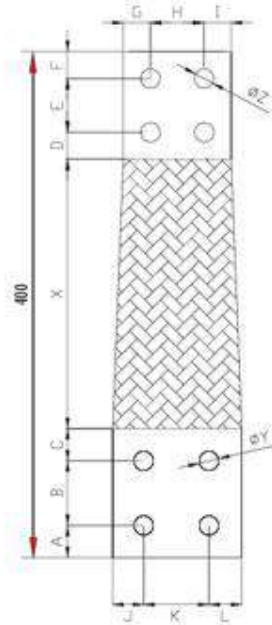
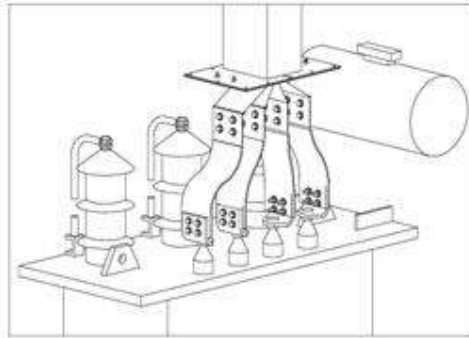
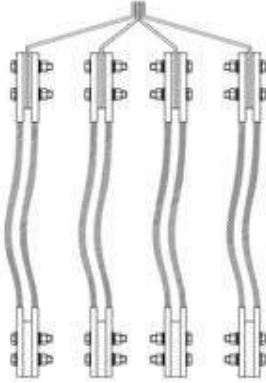
يمكن تصنيعها مع وصلات لأطراف محول ولوحة توزيع

### GS-A

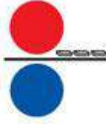
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A A	Ağırlık (Kg/ad) Weight (Kg./unit) الوزن (كجم/الوحدة)
GS-A FLX 05	982605005510041	500	2,600
GS-A FLX 06	982606305510041	630	3,200
GS-A FLX 08	982608005510041	800	4,000
GS-A FLX 10	982610005510041	1000	5,800
GS-A FLX 12	982612505510041	1250	7,200
GS-A FLX 16	982616005510041	1600	9,400
GS-A FLX 20	982620005510041	2000	11,600
GS-A FLX 26	982626005510081	2500	14,400
GS-A FLX 33	982633005510081	3200	18,800
GS-A FLX 41	982641005510081	4000	17,500
GS-A FLX 50	982650005510121	5000	30,500

### GS-C

GS-C FLX 05	992605005510041	500	2,600
GS-C FLX 06	992606305510041	630	3,200
GS-C FLX 08	992608005510041	800	4,000
GS-C FLX 10	992610005510041	1000	5,400
GS-C FLX 12	992612505510041	1250	6,500
GS-C FLX 16	992616005510041	1600	9,200
GS-C FLX 20	992620005510041	2000	11,600
GS-C FLX 25	992625005510041	2500	15,200
GS-C FLX 33	992633005510081	3200	18,400
GS-C FLX 41	992641005510081	4000	30,400
GS-C FLX 50	992650005510121	5000	30,500
GS-C FLX 60	992660005510121	6000	38,000

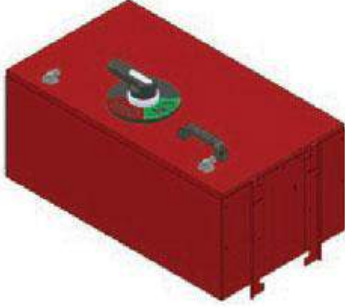




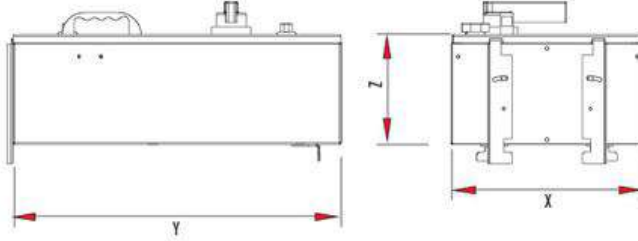


ÇIKIŞ KUTULARINDA KOMPAKT ŞALTER VE NH BUŞON DAHİL DEĞİLDİR  
Tap-off Boxes Do not Include MCCB and NH Fuse  
صناديق الإغلاق لا تتضمن MCCB و NH

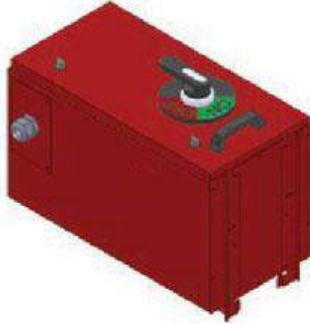
PLUG-IN ÇIKIŞ KUTUSU Plug-in Tap-off Box مكبس توصيل صندوق الإغلاق



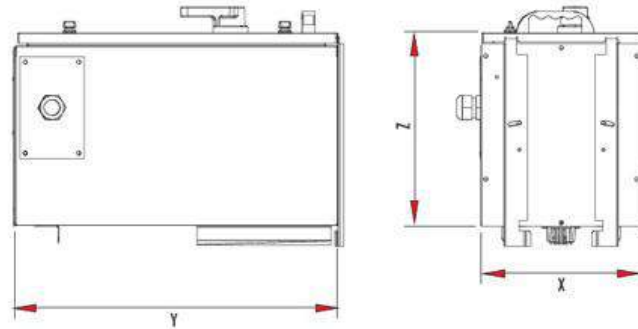
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A A	Keski Tipi Breaker Type نوع القاطع	X mm	Y mm	Z mm	Ağırlık (Kg/ada) Weight (Kg/unit) الوزن (كجم الوحدة)
P-SYK160	914801605511041	160	SYK	350	600	200	17,450
P-SYK250	914802505511041	250	SYK	400	700	300	21,040
P-SYK400	914804005511041	400	SYK	400	700	300	28,180
P-SYK630	914806305511041	630	SYK	450	700	300	37,580



PLUG-IN ÇIKIŞ KUTUSU Plug-in Tap-off Box مكبس توصيل صندوق الإغلاق

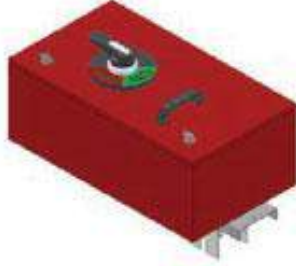


Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A A	Keski Tipi Breaker Type نوع القاطع	X mm	Y mm	Z mm	Ağırlık (Kg/ada) Weight (Kg/unit) الوزن (كجم الوحدة)
P-MCCB160	914801605511141	160	MCCB	300	600	225	14,710
P-MCCB250	914802505511141	250	MCCB	300	600	225	16,240
P-MCCB400	914804005511141	400	MCCB	300	700	300	23,260
P-MCCB630	914806305511141	630	MCCB	300	700	300	28,880





**BOLT-ON ÇIKIŞ KUTUSU** Bolt-on Top-off Box صمامولة صندوق الإغلاق

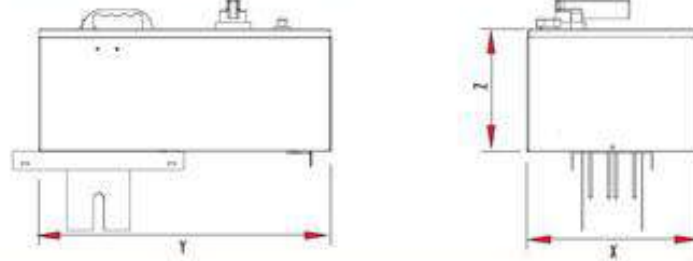


**GSA- BOLT-ON ÇIKIŞ KUTUSU** GSA-Bolt-on Top-off Box صمامولة صندوق الإغلاق

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ampere A	Kesici Tipi Breaker Type نوع القاطع	X mm	Y mm	Z mm	Ağırlık (Kg/ada) Weight (Kg/unit) الوزن (كجم الوحدة)
BX-SYK160	914801605510043	160	SYK	350	600	250	13,800
BX-SYK250	914802505510043	250	SYK	400	700	300	15,900
BX-SYK400	914804005510043	400	SYK	400	700	300	16,000
BX-SYK630	914806305510043	630	SYK	450	800	300	21,500

**GSC- BOLT-ON ÇIKIŞ KUTUSU** GSC-Bolt-on Top-off Box صمامولة صندوق الإغلاق

BX-SYK160	914801605510042	160	SYK	350	600	250	26,960
BX-SYK250	914802505510042	250	SYK	400	700	300	30,500
BX-SYK400	914804005510042	400	SYK	400	700	300	37,500
BX-SYK630	914806305510042	630	SYK	450	800	300	45,000



**BOLT-ON ÇIKIŞ KUTUSU** Bolt-on Top-off Box صمامولة صندوق الإغلاق



**GSA- BOLT-ON ÇIKIŞ KUTUSU** GSA-Bolt-on Top-off Box صمامولة صندوق الإغلاق

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ampere A	Kesici Tipi Breaker Type نوع القاطع	X mm	Y mm	Z mm	Ağırlık (Kg/ada) Weight (Kg/unit) الوزن (كجم الوحدة)
BX-MCCB160	914801605510143	160	MCCB	300	600	225	24,500
BX-MCCB250	914802505510143	250	MCCB	300	600	225	25,700
BX-MCCB400	914804005510143	400	MCCB	300	700	300	34,100
BX-MCCB630	914806305510143	630	MCCB	300	700	300	37,200
BX-MCCB800	914808005510143	800	MCCB	-	-	-	38,700
BX-MCCB1000	914810005510143	1000	MCCB	-	-	-	39,800

**GSC- BOLT-ON ÇIKIŞ KUTUSU** GSC-Bolt-on Top-off Box صمامولة صندوق الإغلاق

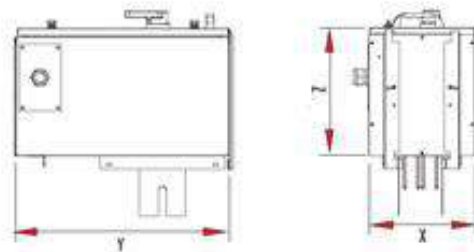
BX-MCCB160	914801605510142	160	MCCB	300	600	225	24,500
BX-MCCB250	914802505510142	250	MCCB	300	600	225	25,700
BX-MCCB400	914804005510142	400	MCCB	300	700	300	34,100
BX-MCCB630	914806305510142	630	MCCB	300	700	300	37,200
BX-MCCB800	914808005510142	800	MCCB	-	-	-	38,700
BX-MCCB1000	914810005510142	1000	MCCB	-	-	-	39,800

D.F (O)

2-3	0,9
4-5	0,8
6-9	0,7
10...	0,6

X	AL CU	500	630	800	1000	1250	1600	2000	2500	3200	4000	5000	6000
	A C		05	06	08	10	12	16	20	25	32	40	50

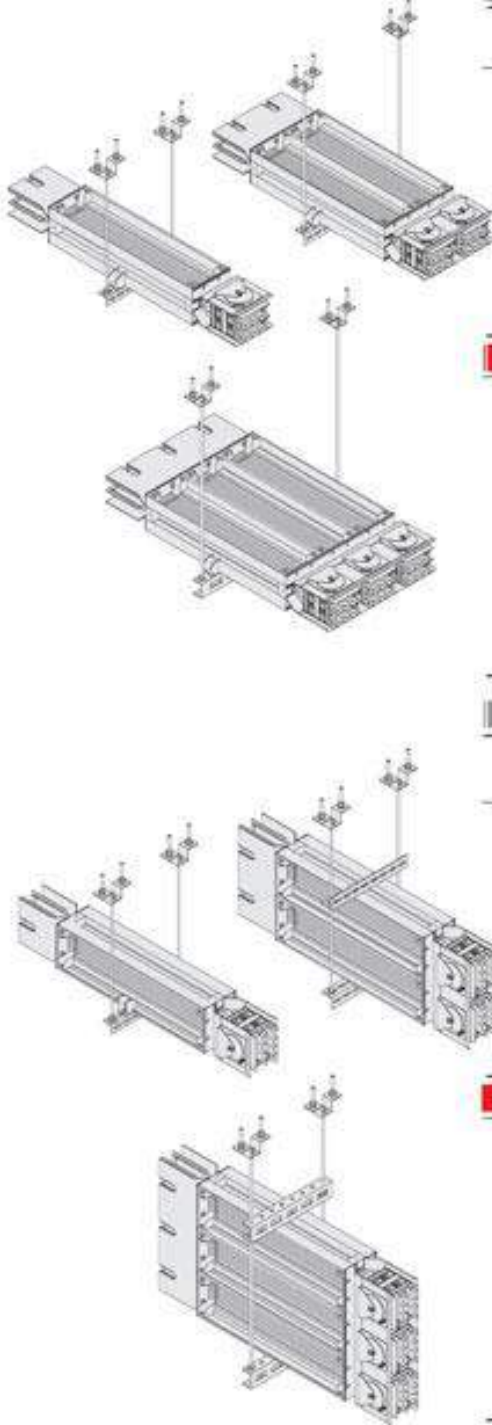
800A AL BUSBAR, GS-AB 05010B, 160A MCCB = BA0B-MCCB160





YATAY ASKI TAKIMI Horizontal Supporting Hangers

معلقات دعم افقي



GS-A			
Sipariş kodo Order code رمز الطلب	Stok kodo Stock code رمز المخزون	Ampere A	Ağırlık (Kg/od) Weight (Kg/line) الوزن (كجم/الوحدة)
GS-A SSH 05	982705005560043	500	3.500
GS-A SSH 06	982706305560043	630	3.500
GS-A SSH 08	982708005560043	800	3.500
GS-A SSH 10	982710005560043	1000	3.500
GS-A SSH 12	982712505560043	1250	3.650
GS-A SSH 16	982716005560043	1600	3.650
GS-A SSH 20	982720005560043	2000	3.750
GS-A SSH 26	982726005560083	2500	4.800
GS-A SSH 33	982733005560083	3200	4.950
GS-A SSH 41	982741005560083	4000	5.350
GS-A SSH 50	982750005560123	5000	9.500

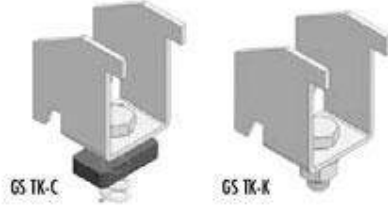
GS-C			
GS-C SSH 05	992705005560043	500	3.500
GS-C SSH 06	992706305560043	630	3.500
GS-C SSH 08	992708005560043	800	3.500
GS-C SSH 10	992710005560043	1000	3.500
GS-C SSH 12	992712505560043	1250	3.500
GS-C SSH 16	992716005560043	1600	3.650
GS-C SSH 20	992720005560043	2000	3.650
GS-C SSH 25	992725005560043	2500	3.750
GS-C SSH 33	992733005560083	3200	4.800
GS-C SSH 41	992741005560083	4000	5.350
GS-C SSH 50	992750005560123	5000	8.500
GS-C SSH 60	992760005560123	6000	9.500

GS-A			
Sipariş kodo Order code رمز الطلب	Stok kodo Stock code رمز المخزون	Ampere A	Ağırlık (Kg/od) Weight (Kg/line) الوزن (كجم/الوحدة)
GS-A SSHV 05	982705005560044	500	3.500
GS-A SSHV 06	982706305560044	630	3.500
GS-A SSHV 08	982708005560044	800	3.500
GS-A SSHV 10	982710005560044	1000	3.500
GS-A SSHV 12	982712505560044	1250	3.500
GS-A SSHV 16	982716005560044	1600	3.500
GS-A SSHV 20	982720005560044	2000	3.500
GS-A SSHV 26	982726005560084	2500	5.140
GS-A SSHV 33	982733005560084	3200	5.140
GS-A SSHV 41	982741005560084	4000	5.140
GS-A SSHV 50	982750005560124	5000	7.650

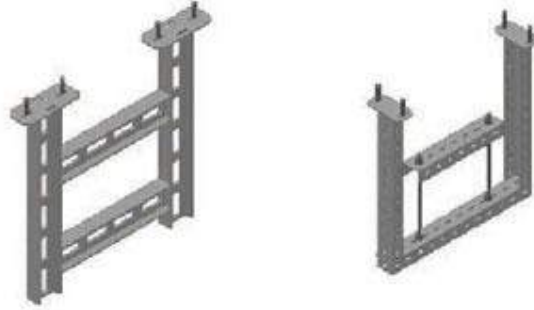
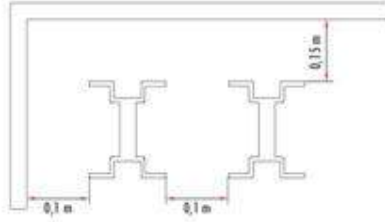
GS-C			
GS-C SSHV 05	992705005560044	500	3.500
GS-C SSHV 06	992706305560044	630	3.500
GS-C SSHV 08	992708005560044	800	3.500
GS-C SSHV 10	992710005560044	1000	3.500
GS-C SSHV 12	992712505560044	1250	3.500
GS-C SSHV 16	992716005560044	1600	3.500
GS-C SSHV 20	992720005560044	2000	3.500
GS-C SSHV 25	992725005560044	2500	3.500
GS-C SSHV 33	992733005560084	3200	5.140
GS-C SSHV 41	992741005560084	4000	5.140
GS-C SSHV 50	992750005560124	5000	7.650
GS-C SSHV 60	992760005560124	6000	7.650



BUSBAR TESPİT ELEMANI Fixing hanger علاقة تثبيت



Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GS TK-C	98270000060043	0.200
GS TK-K	98270000060044	0.180



DIKEY ASKI TAKIMI Vertical Supporting Hangers

علاقات دعم رأسي



GS-A			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	Ampere A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GS-A SSV 05	982805005560043	500	6,000
GS-A SSV 06	982806305560043	630	6,000
GS-A SSV 08	982808005560043	800	6,000
GS-A SSV 10	982810005560043	1000	6,000
GS-A SSV 12	982812505560043	1250	6,000
GS-A SSV 16	982816005560043	1600	6,000
GS-A SSV 20	982820005560043	2000	6,000
GS-A SSV 26	982826005560083	2500	7,500
GS-A SSV 33	982833005560083	3200	7,500
GS-A SSV 41	982841005560083	4000	7,500
GS-A SSV 50	982850005560123	5000	14,000

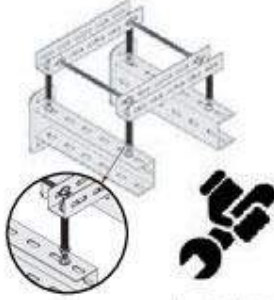
GS-C			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزون	Ampere A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GS-C SSV 05	992805005560043	500	6,000
GS-C SSV 06	992806305560043	630	6,000
GS-C SSV 08	992808005560043	800	6,000
GS-C SSV 10	992810005560043	1000	6,000
GS-C SSV 12	992812505560043	1250	6,000
GS-C SSV 16	992816005560043	1600	6,000
GS-C SSV 20	992820005560043	2000	6,000
GS-C SSV 25	992825005560043	2500	6,000
GS-C SSV 33	992833005560083	3200	7,500
GS-C SSV 41	992841005560083	4000	7,500
GS-C SSV 50	992850005560123	5000	14,000
GS-C SSV 60	992860005560123	6000	14,000





DIKEY ASKI TAKIMI Vertical Supporting Hangers

علاقات دعم رأسي



GS-A

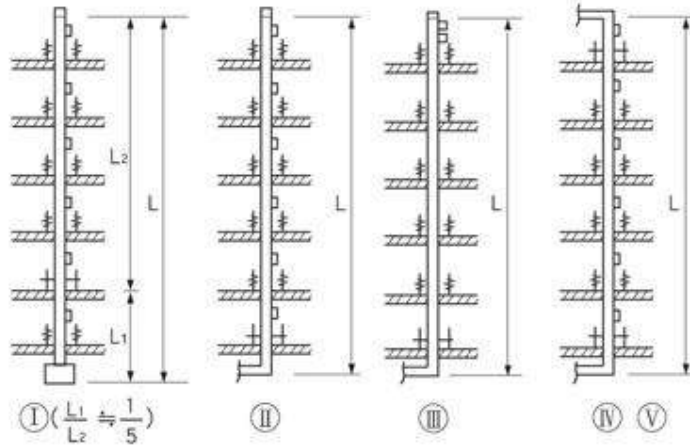
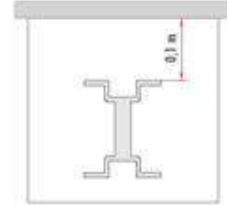
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A A	Ağırlık (Kg/od) Weight (Kg/unit) الوزن (كجم الوحدة)
GS-A SSV 05-1	982705005561043	500	6,000
GS-A SSV 06-1	982706305561043	630	6,000
GS-A SSV 08-1	982708005561043	800	6,000
GS-A SSV 10-1	982710005561043	1000	6,000
GS-A SSV 12-1	982712505561043	1250	6,000
GS-A SSV 16-1	982716005561043	1600	6,000
GS-A SSV 20-1	982720005561043	2000	6,000
GS-A SSV 26-1	982726005561083	2500	7,500
GS-A SSV 33-1	982733005561083	3200	7,500
GS-A SSV 41-1	982741005561083	4000	7,500
GS-A SSV 50-1	982750005561123	5000	14,000

GS-C

GS-C SSV 05-1	992705005561043	500	6,000
GS-C SSV 06-1	992706305561043	630	6,000
GS-C SSV 08-1	992708005561043	800	6,000
GS-C SSV 10-1	992710005561043	1000	6,000
GS-C SSV 12-1	992712505561043	1250	6,000
GS-C SSV 16-1	992716005561043	1600	6,000
GS-C SSV 20-1	992720005561043	2000	6,000
GS-C SSV 25-1	992725005561043	2500	6,000
GS-C SSV 33-1	992733005561083	3200	7,500
GS-C SSV 41-1	992741005561083	4000	7,500
GS-C SSV 50-1	992750005561123	5000	14,000
GS-C SSV 60-1	992760005561123	6000	14,000



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

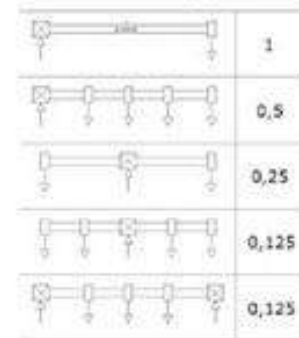




		GS-A 500A	GS-A 630A	GS-A 800A	GS-A 1000A	GS-A 1250A	GS-A 1600A	GS-A 2000A	GS-A 2500A	GS-A 3200A	GS-A 4000A	GS-A 5000A	
Nominal Akım / Rated Current	I <sub>n</sub>	500	630	800	1000	1250	1600	2000	2500	3200	4000	5000	A
Uygulama Gerilimi / Operational Voltage	U <sub>e</sub>	1000											V
İzolasyon Gerilim / Insulation Voltage	U <sub>i</sub>	1000											V
Frekans / Frequency	f	50-60 (AC/DC)											Hz
Faz Kesiti / Cross Section Of Phases	S <sub>f</sub>	330	330	330	450	660	1040	1080	1320	2080	2160	3240	mm <sup>2</sup>
Nötr Kesiti / Cross Section Of Neutral	S <sub>n</sub>	330	330	330	450	660	1040	1080	1320	2080	2160	3240	mm <sup>2</sup>
Toprak Barasının Kesiti / Cross Section of Earth Bar	S <sub>pt</sub>	165	165	165	225	330	520	540	660	1040	1080	1620	mm <sup>2</sup>
Alüminyum Kasa Kesiti / Cross Section Of Aluminium Housing	S <sub>h</sub>	1354	1354	1354	1450	2295	2344	2603	4590	4688	5204	7810	mm <sup>2</sup>
Faz Kısa Devre Akımı (1sn) / Short-Circuit Current of Phases (1s)	I <sub>sc</sub>	36	36	36	50	65	80	80	100	120	120	150	kA
Faz Pk Akımı / Peak Current of Phases	I <sub>pk</sub>	75	75	75	110	150	175	175	220	264	264	330	kA
Nötr Kısa Devre Akımı (1sn) / Short-Circuit Current of Neutral (1s)	I <sub>scn</sub>	21	21	21	30	40	50	50	63	72	72	90	kA
Nötr Pk Akımı / Peak Current of Neutral	I <sub>pkn</sub>	47	47	47	63	92	100	100	132	158	158	198	kA
Faz Direnci / Phase Resistance (T=20°C)	R <sub>20</sub>	0,088	0,088	0,090	0,066	0,046	0,027	0,026	0,016	0,014	0,013	0,008	mΩ/m
Faz Direnci / Phase Resistance	R <sub>1</sub>	0,125	0,125	0,125	0,091	0,062	0,034	0,029	0,027	0,019	0,018	0,014	mΩ/m
Faz Reaktansı / Phase Reactance	X <sub>1</sub>	0,033	0,033	0,033	0,023	0,015	0,018	0,014	0,017	0,010	0,009	0,004	mΩ/m
Faz Empedansı / Phase Impedance	Z <sub>1</sub>	0,129	0,129	0,129	0,094	0,064	0,036	0,032	0,032	0,021	0,020	0,015	mΩ/m
Doğru Yükle Gerilim Düşümü Tablosu [ΔV] Voltage drop with distributed load		500A	630A	800A	1000A	1250A	1600A	2000A	2500A	3200A	4000A	5000A	
الهبوط في الجهد في لوحة التوزيع Cosφ = 0.95 (α=1)	(mV/m)	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	
		112	141	180	162	137	126	112	105	117	126	122	

Konsantr Yükle Gerilim Düşümü Hesabı / Voltage drop with concentrated and line load		هبوط الجهد مع حمل طرفي مركز		$\Delta V = \alpha \sqrt{3} I_p L (R \cos\phi + X_s \sin\phi) 10^{-3}$
ΔV	Gerilim Düşümü (V)	Voltage drop		هبوط الجهد
α	Yük Dağılım Katsayısı	Current distribution factor		عامل توزيع التيار
L	Net Uzunluğu (m)	Duct length		طول القناة
I <sub>p</sub>	Net akım (A)	Use current (A)		تيار الاستخدام (A)
R	Karakteristik Direnci (m/m)	Phase resistance per unit length of the busbar		مقاومة الفاز لكل وحد طول من البسبار
X <sub>s</sub>	Endüktif Reaktansı (m/m)	Phase reactance per unit length of the busbar		مفاعلة الفاز لكل وحد طول من البسبار
cosφ	Güç Faktörü	Average load power factor		عامل متوسط التحميل

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

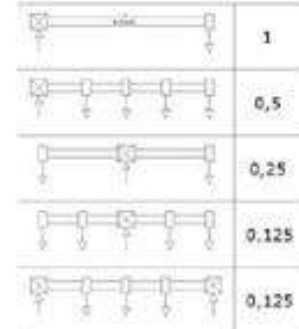




		GS-C 500A	GS-C 630A	GS-C 800A	GS-C 1000A	GS-C 1250A	GS-C 1600A	GS-C 2000A	GS-C 2500A	GS-C 3200A	GS-C 4000A	GS-C 5000A	GS-C 6000A
Nominal Akım / Rated Current التيار المعدل	$I_n$	500	630	800	1000	1250	1600	2000	2500	3200	4000	5000	6000
Uygulama Gerilimi / Operational Voltage جهد التشغيل	$U_e$	1000											
İzolasyon Gerilim / Isolation Voltage جهد العزل	$U_i$	1000											
Frekans / Frequency التردد	$f$	50-60 (AC/DC)											
Faz Kesiti / Cross Section Of Phases مقطع عرضي للفايزات	$S_f$	330	330	330	330	450	660	1040	1080	1320	2160	3120	3240
Nötr Kesiti / Cross Section Of Neutral مقطع عرضي للفايز الأرضي	$S_n$	330	330	330	330	450	660	1040	1080	1320	2160	3120	3240
Toprak Barajının Kesiti / Cross Section of Earth Bar مقطع عرضي لعمود الأرضي	$S_e$	165	165	165	165	225	330	520	540	660	1080	1560	1620
Alüminyum Kasa Kesiti / Cross Section Of Aluminium Housing مقطع عرضي للعنبر الألومنيوم	$S_{a1}$	1354	1354	1354	1354	1450	2295	2344	2603	4590	5286	7033	7810
Faz Kısa Devre Akımı (1sn) / Short-Circuit Current of Phases (1s) تيار توصيل الفايزات (1 ثانية)	$I_{k1}$	50	50	50	50	50	65	80	80	120	120	150	150
Faz PİK Akımı / Peak Current of Phases قمة تيار الفايزات	$I_{pk}$	110	110	110	110	110	150	175	175	264	264	330	330
Nötr Kısa Devre Akımı (1sn) / Short-Circuit Current of Neutral (1s) تيار التوصيل للفايز المعدل (1 ثانية)	$I_{k1n}$	30	30	30	30	30	40	50	50	72	72	90	90
Nötr PİK Akımı / Peak Current of Neutral قمة تيار الفايز المعدل	$I_{pkn}$	70	70	70	70	70	92	100	100	158	158	198	198
Faz Direnci / Phase Resistance (T=20°C) مقاومة الفايز (T=20°C)	$R_{20}$	0,054	0,054	0,054	0,054	0,042	0,027	0,017	0,016	0,012	0,008	0,005	0,005
Faz Direnci / Phase Resistance مقاومة الفايز	$R_1$	0,076	0,076	0,076	0,076	0,058	0,038	0,023	0,022	0,016	0,009	0,007	0,005
Faz Reaktansı / Phase Reactance مفاعلة الفايز	$X_1$	0,028	0,028	0,028	0,028	0,021	0,014	0,013	0,013	0,015	0,010	0,005	0,003
Faz Empedansı / Phase Impedance مقاومة الفايز	$Z_1$	0,081	0,081	0,081	0,081	0,062	0,041	0,026	0,026	0,022	0,014	0,009	0,006
Değişik Yükte Gerilim Düşümü Tablosu (ΔV) Voltage drop with distributed load الهبوط في الجهد في لوحة التوزيع $\cos \phi = 0,95$ ( $\sigma = 1$ )		500A	630A	800A	1000A	1250A	1600A	2000A	2500A	3200A	4000A	5000A	6000A
	(mV/m)	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]
		70	88	112	140	132	110	93	108	101	80	71	59

توزيع الحمل الثابت (α) / YÜK DAĞILIM KATSAYISI (α)  
LOAD DISTRIBUTION CONSTANT (α)

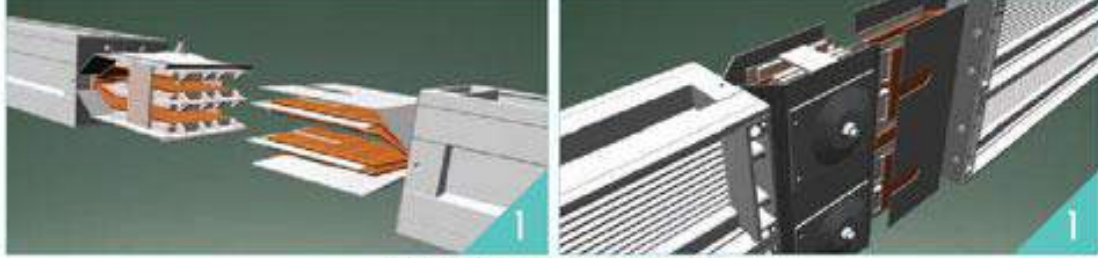
Konsantre Yük ile Gerilim Düşümü Hesabı / Voltage drop with concentrated end line load هبوط الجهد مع حمل طرفي مركز		$\Delta V = \alpha \sqrt{3} I_n L (R \cos \phi + X_L \sin \phi) 10^{-3}$
ΔV	Gerilim Düşümü (V) / Voltage drop / هبوط الجهد	
α	Yük Dağılım Katsayısı / Current distribution factor / عامل توزيع التيار	
L	Net Uzunluğu (m) / Duct length / طول القناة	
$I_n$	Net akımı (A) / Use current (A) / تيار الاستخدام (A)	
R	Karakteristik Direnci (m/m) / Phase resistance per unit length of the busbar / مقاومة الفايز لكل وحد طول من البسبار	
$X_L$	Endüktif Reaktans (m/m) / Phase reactance per unit length of the busbar / مفاعلة الفايز لكل وحد طول من البسبار	
$\cos \phi$	Güç Faktörü / Average load power factor / عامل متوسط التحميل	





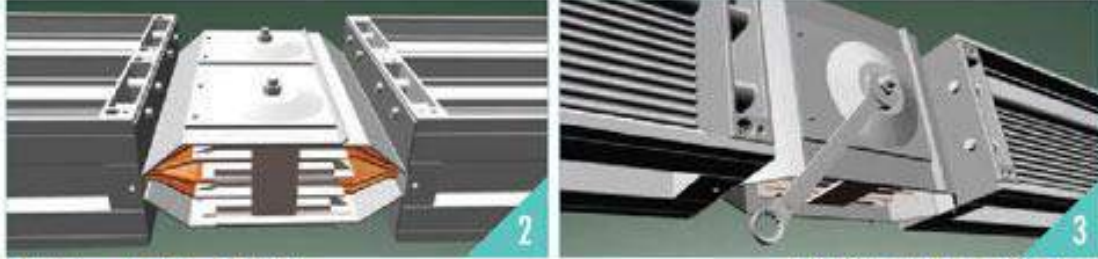
GS-- YÜKSEK GÜÇ BUSBAR KANAL SİSTEMİ MONTAJ DETAYI  
GS-- High Power Busbar Trunking System Installation Detail

تفاصيل تركيب أنظمة تديدات باسبار GS للطاقة العالية



1) Busbar elemanlarını karşı karşıya getiriniz.  
1) Move Busbar elements face to face.

حرك عناصر باسبار وجه لوجه

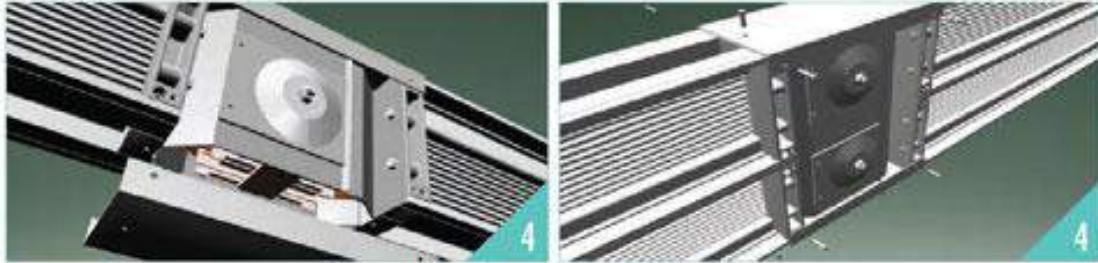


2) Busbarların ek noktalarını birleştiriniz.  
2) Position Busbar with uniting joint points.

ضع باسبار مع نقاط توحيد التوصلات

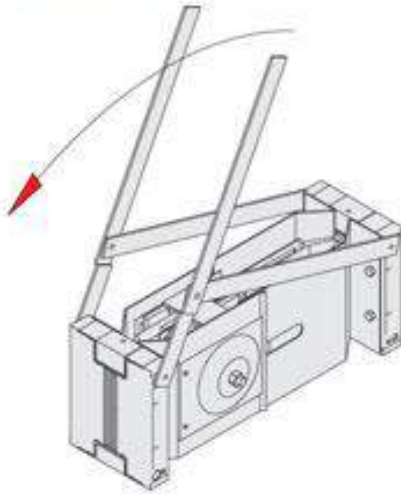
3) Ek civatasını<sup>(1)</sup> tork ahanarı ile sıkınız.  
3) Tighten the joint screw<sup>(1)</sup>

قم بإحكام برغي التوصيل<sup>(1)</sup>



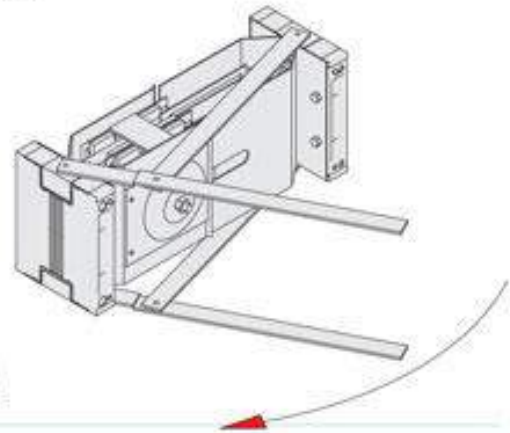
4) Kapakların vidalarını takınız ve sıkınız.  
4) Assemble screws of covers and tighten.

براغي التجميع للأغطية والإحكام



(1) 90 Nm Tork ile Sıkılmalıdır.  
(1) Must Be Tightened With 90 Nm.

ان إم 90 بعد ان يتم إحكامها عن طريق (1)



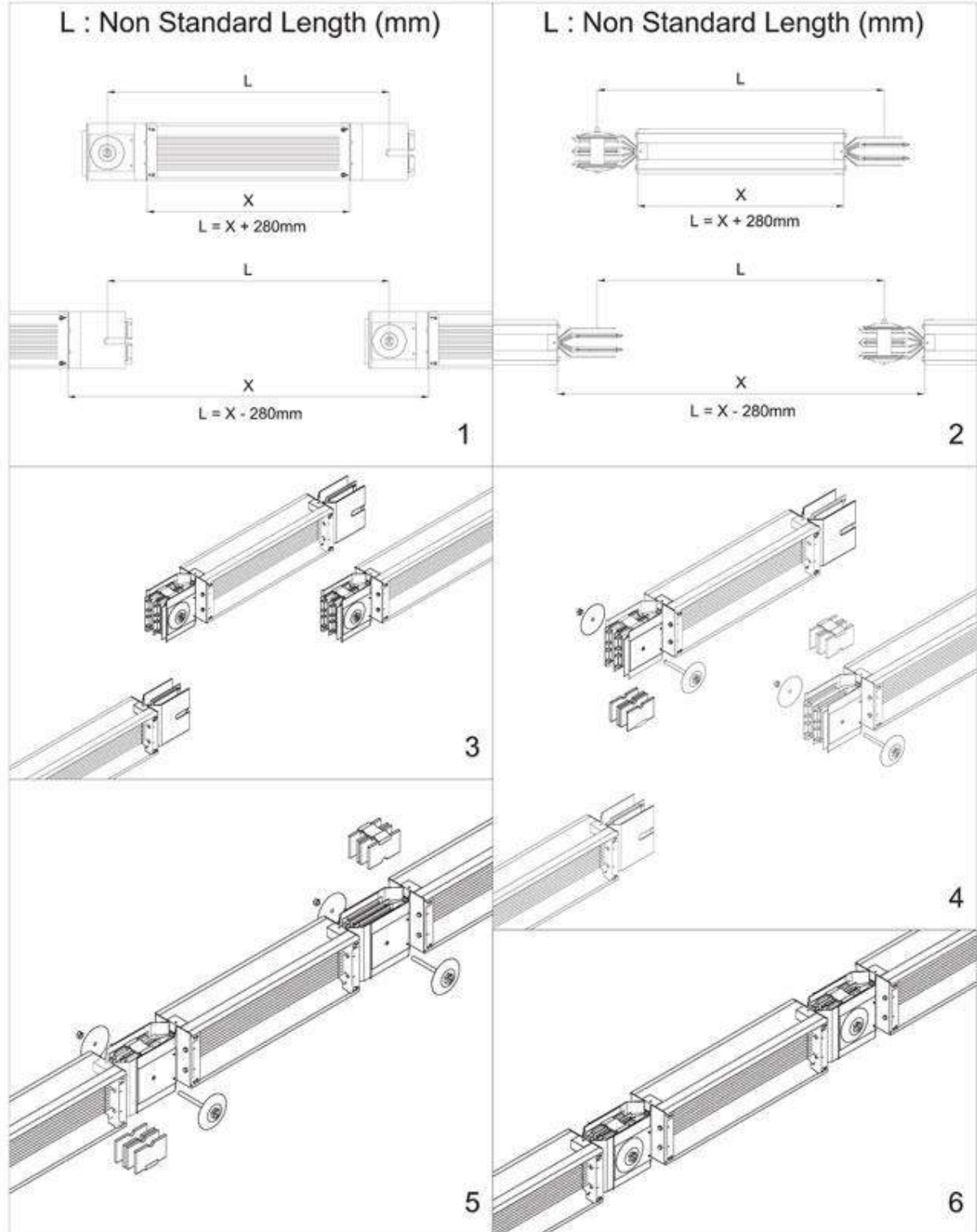




GS-SÜPER COMPACT BUSBAR KANAL SİSTEMLERİ

GS-Super Compact Busbar Trunking Systems

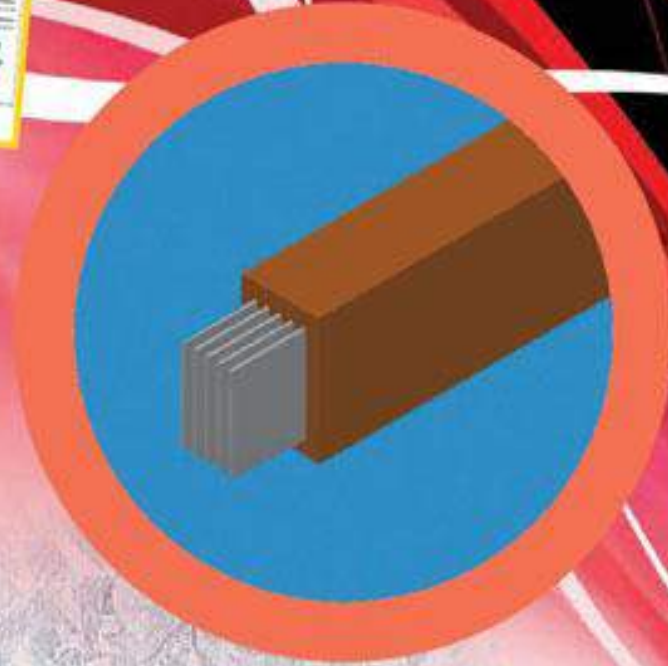
انظمة البسبار المضغوطة المدمجة GS







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



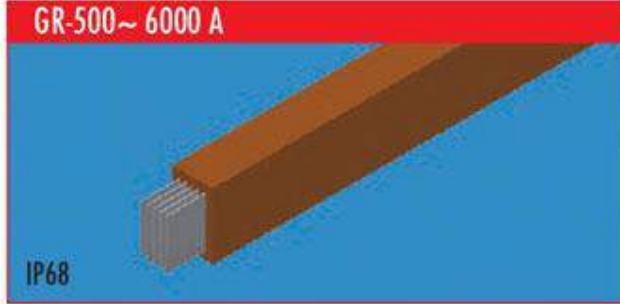
**GR (A.G.-O.G.)**

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

نظام قنسة بسمار الوانجى

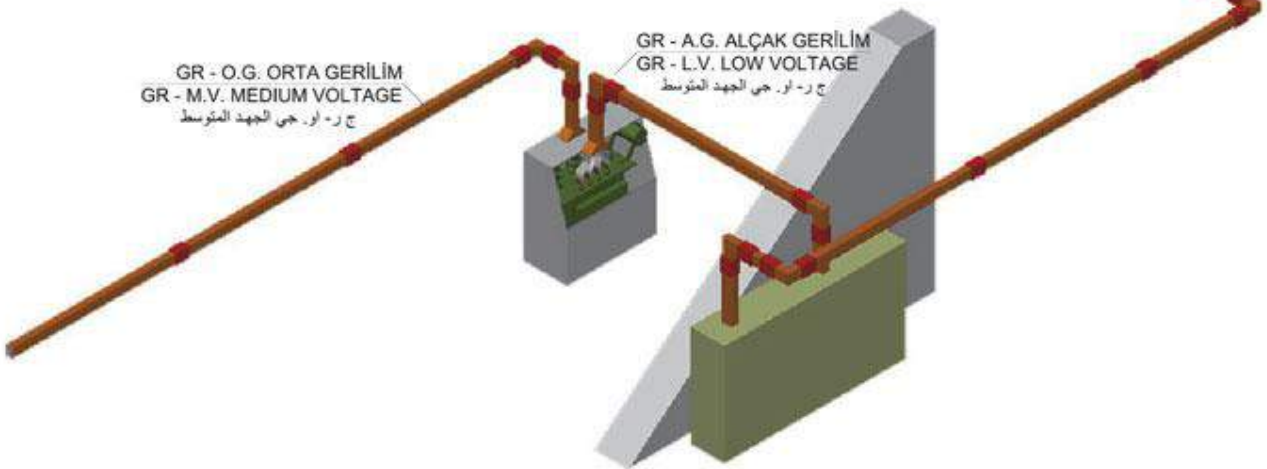
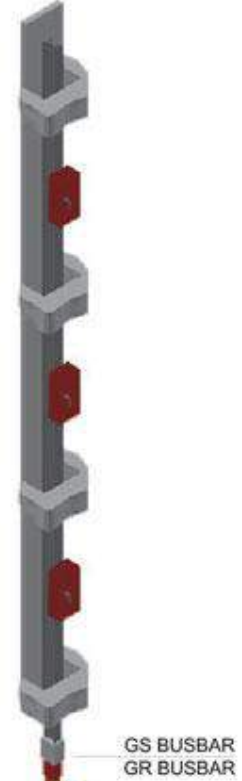


ISO 9001-14001-18001



- \* 500-6000 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 çıkış olabilecek duranına sahiptir.
- \* Standart IP68 koruma sınıfında üretilir.
- \* Busbar ile ilgili uluslararası tüm sertifikalara ve CE belgesine 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.

- \* تنتج بقواصل 500-600 أمبير.
- \* الموصلات مكسوة بالقصدير.
- \* الهيكل مصنوعة من الراتنج كاملاً ومصممة خصيصاً للامساك الرطبة والملحية.
- \* توفر الحماية الجيدة ضد التآكل فضلاً على بنيتها الراتنجية السمكية المعزولة.
- \* توابع العودة والافسيت غير ملحومة.
- \* تملك النقطة الاضافية على تجهيزات خروج تربياسي والتي تمنع حدوث الدورة القصيرة.
- \* يتم انتاجها في فئة حماية اي بي 68 القياسية.
- \* تملك على كافة انواع الشهادات والوثائق الدولية المتعلقة عن المسبار.



GR - CAST RESIN

GR-A  
500A - 5000A

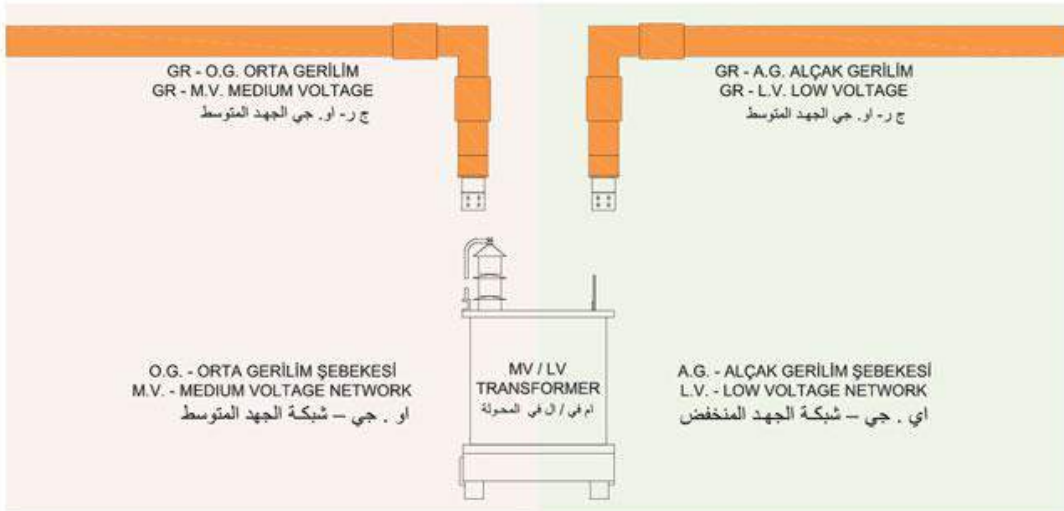
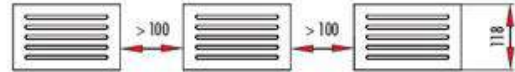
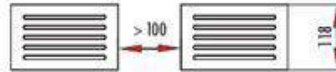
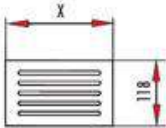
İletken olarak kullanılan malzeme alüminyumdur (EC Grade).  
The conductors used in this serie are aluminium(EC Grade).  
الموصلات المستخدمة في المجموعة من الألومنيوم (درجة EC)

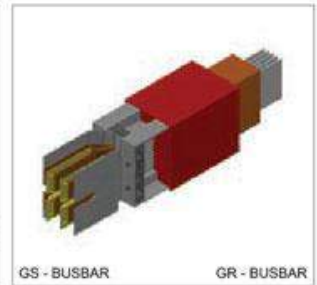
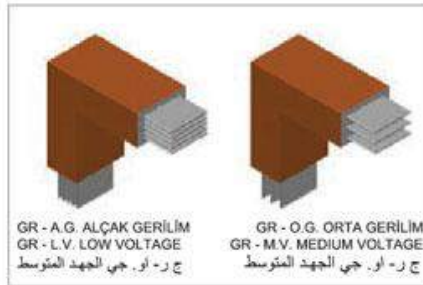
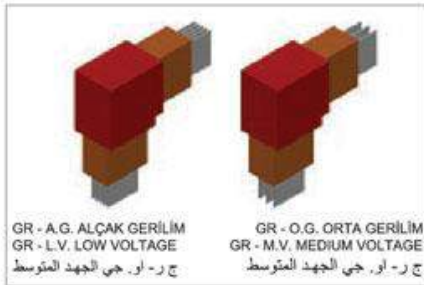
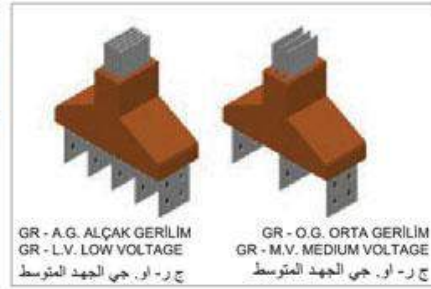
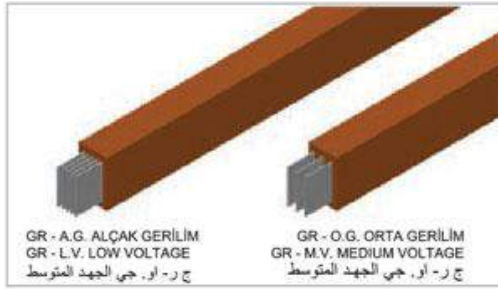
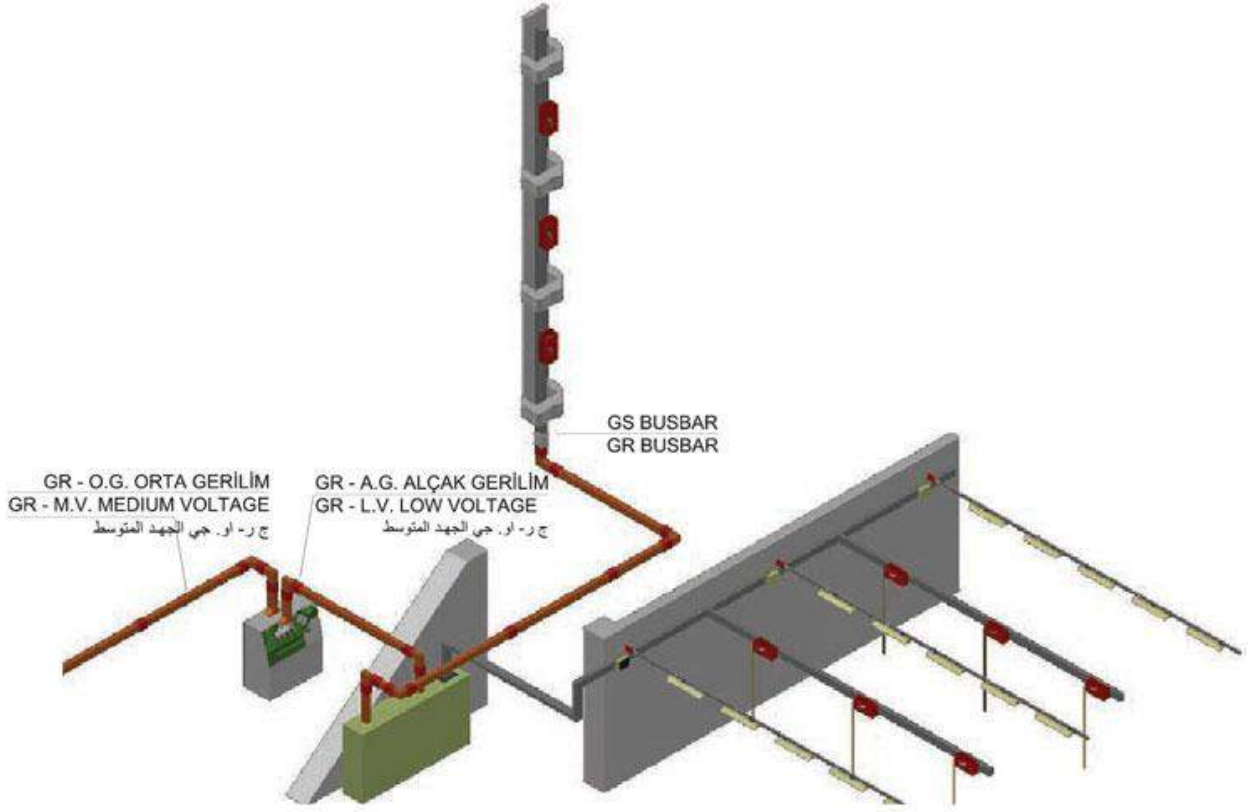
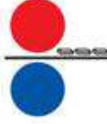
GR-C  
500A - 6000A

İletken olarak kullanılan malzeme elektrolitik bakırdır (%99.9 Safılıkta).  
The conductors used in this serie are electrolytic copper(%99.9 purity).  
الموصلات المستخدمة في المجموعة هي من النحاس العالي التوصيل  
(%99.9 درجة النقاء)

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

GR-A	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-A 3200A	GR-C 3200A	220





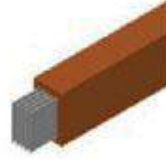


STANDART BOY ELEMAN (BOLT-ON) Standard Length Element (Bolt-on) (صامتة الطول القياسي (صامتة الربط)

GR-A 3P			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A	Ağırlık (Kg/mt) Weight (Kg/mt) الوزن (كجم المتر)
GR-A3 030105	850 10 500 552 40 30	500	124.680
GR-A3 030106	850 10 630 552 40 30	630	124.680
GR-A3 030108	850 10 800 552 40 30	800	124.680
GR-A3 030110	850 11 000 552 40 30	1000	124.680
GR-A3 030112	850 11 250 552 40 30	1250	124.680
GR-A3 030116	850 11 600 552 40 30	1600	122.910
GR-A3 030120	850 12 000 552 40 30	2000	157.830
GR-A3 030125	850 12 500 552 40 30	2500	157.830

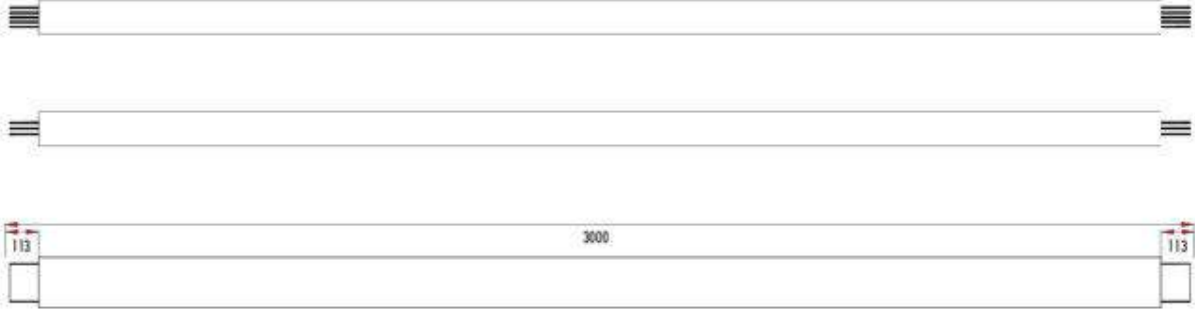


GR-A 3P+N+Pe			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A	Ağırlık (Kg/mt) Weight (Kg/mt) الوزن (كجم المتر)
GR-A5 050105	850 10 500 552 40 50	500	147.850
GR-A5 050106	850 10 630 552 40 50	630	147.850
GR-A5 050108	850 10 800 552 40 50	800	147.850
GR-A5 050110	850 11 000 552 40 50	1000	147.850
GR-A5 050112	850 11 250 552 40 50	1250	147.850
GR-A5 050116	850 11 600 552 40 50	1600	150.340
GR-A5 050120	850 12 000 552 40 50	2000	196.040
GR-A5 030125	850 12 500 552 40 50	2500	196.040



GR-C 3P			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A	Ağırlık (Kg/mt) Weight (Kg/mt) الوزن (كجم المتر)
GR-C3 030105	860 10 500 551 40 31	500	131.690
GR-C3 030106	860 10 630 551 40 31	630	131.690
GR-C3 030108	860 10 800 551 40 31	800	131.690
GR-C3 030110	860 11 000 551 40 31	1000	131.690
GR-C3 030112	860 11 250 551 40 31	1250	131.690
GR-C3 030116	860 11 600 551 40 31	1600	131.690
GR-C3 030120	860 12 000 551 40 31	2000	131.230
GR-C3 030125	860 12 500 551 40 31	2500	169.380
GR-C3 030132	860 13 200 552 40 31	3200	169.380

GR-C 3P+N+Pe			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Amper A	Ağırlık (Kg/mt) Weight (Kg/mt) الوزن (كجم المتر)
GR-C5 050105	860 10 500 551 40 51	500	227.790
GR-C5 050106	860 10 630 551 40 51	630	227.790
GR-C5 050108	860 10 800 551 40 51	800	227.790
GR-C5 050110	860 11 000 551 40 51	1000	227.790
GR-C5 050112	860 11 250 551 40 51	1250	227.790
GR-C5 050116	860 11 600 551 40 51	1600	227.790
GR-C5 050120	860 12 000 551 40 51	2000	245.200
GR-C5 100125	860 12 500 551 40 51	2500	327.740
GR-C5 030132	860 13 200 552 40 51	3200	327.740





PANO - TRAFÖ ÜSTÜ ELEMANI Panel - Transformer Side Element

عصر محول جانبي



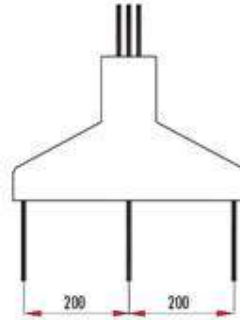
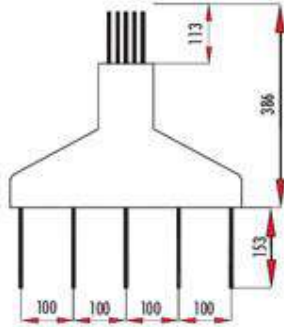
GR-A 3P			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ampere A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GR-A3 TS 05	850 70 500 55200 30	500	21.770
GR-A3 TS 06	850 70 630 55200 30	630	21.770
GR-A3 TS 08	850 70 800 55200 30	800	21.770
GR-A3 TS 10	850 71 000 55200 30	1000	21.770
GR-A3 TS 12	850 71 250 55200 30	1250	21.770
GR-A3 TS 16	850 71 600 55200 30	1600	22.130
GR-A3 TS 20	850 72 000 55200 30	2000	28.850
GR-A3 TS 25	850 72 500 55200 30	2500	28.850



GR-A 3P+N+Pe			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ampere A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GR-A5 TS 05	850 70 500 55200 50	500	22.980
GR-A5 TS 06	850 70 630 55200 50	630	22.980
GR-A5 TS 08	850 70 800 55200 50	800	22.980
GR-A5 TS 10	850 71 000 55200 50	1000	22.980
GR-A5 TS 12	850 71 250 55200 50	1250	22.980
GR-A5 TS 16	850 71 600 55200 50	1600	23.570
GR-A5 TS 20	850 72 000 55200 50	2000	30.830
GR-A5 TS 25	850 72 500 55200 50	2500	30.830

GR-C 3P			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ampere A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GR-C3 TS 05	860 70 500 55100 31	500	28.780
GR-C3 TS 06	860 70 630 55100 31	630	28.780
GR-C3 TS 08	860 70 800 55100 31	800	28.780
GR-C3 TS 10	860 71 000 55100 31	1000	28.780
GR-C3 TS 12	860 71 250 55100 31	1250	28.780
GR-C3 TS 16	860 71 600 55100 31	1600	28.780
GR-C3 TS 20	860 72 000 55100 31	2000	30.450
GR-C3 TS 25	860 72 500 55100 31	2500	40.400
GR-C3 TS 32	860 73 200 55100 31	3200	40.400

GR-C 3P+N+Pe			
Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ampere A	Ağırlık (Kg/ad) Weight (Kg/unit) الوزن (كجم الوحدة)
GR-C5 TS 05	860 70 500 55100 51	500	34.400
GR-C5 TS 06	860 70 630 55100 51	630	34.400
GR-C5 TS 08	860 70 800 55100 51	800	34.400
GR-C5 TS 10	860 71 000 55100 51	1000	34.400
GR-C5 TS 12	860 71 250 55100 51	1250	34.400
GR-C5 TS 16	860 71 600 55100 51	1600	34.400
GR-C5 TS 20	860 72 000 55100 51	2000	37.140
GR-C5 TS 25	860 72 500 55100 51	2500	49.630
GR-C5 TS 32	860 73 200 55200 51	3200	49.630



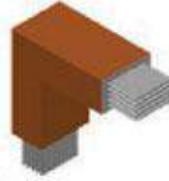




90° DIKEY DÖNÜŞ ELEMANI 90° Vertical Elbow Element عنصر كوع رأسي 90 درجة

GR-A 3P

Sipariş kodo Order code رمز الطلب	Stok kodo Stock code رمز المخزون	Amper A	Ağırlık (Kg/ed) Weight (Kg/unit) وزن (كجم الوحدة)
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

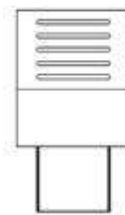
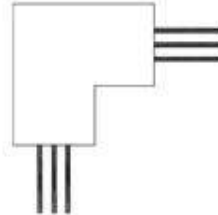
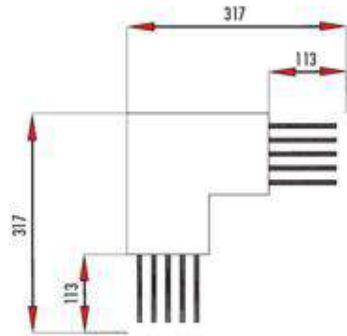
Sipariş kodo Order code رمز الطلب	Stok kodo Stock code رمز المخزون	Amper A	Ağırlık (Kg/ed) Weight (Kg/unit) وزن (كجم الوحدة)
GR-A5 VE 05	853105005520050	500	12.970
GR-A5 VE 06	853106305520050	630	12.970
GR-A5 VE 08	853108005520050	800	12.970
GR-A5 VE 10	853110005520050	1000	12.970
GR-A5 VE 12	853112505520050	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

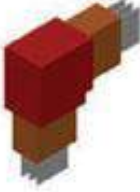




90° YATAY DÖNÜŞ ELEMANI 90° Horizontal Elbow Element عنصر كوع أفقي 90 درجة

GR A 3P

Sipariş kodu Order code رمز الطلب	Stok kodu Stock code رمز المخزن	Ampere A	x mm	y mm	Ağırlık (kg/ad) Weight (kg/unit) وزن (كجم الوحدة)
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 رمز الطلب	Stok kodu Stock code رمز المخزن	Ampere A	x mm	y mm	Ağırlık (kg/ad) Weight (kg/unit) وزن (كجم الوحدة)
GR-A5 HE 05	852905005520050	500	402	402	17.490
GR-A5 HE 06	852906305520050	630	402	402	17.490
GR-A5 HE 08	852908005520050	800	402	402	17.490
GR-A5 HE 10	852910005520050	1000	402	402	17.490
GR-A5 HE 12	852912505520050	1250	402	402	17.490
GR-A5 HE 16	852916005520050	1600	402	402	18.040
GR-A5 HE 20	852920005520050	2000	427	427	21.980
GR-A5 HE 25	852925005520050	2500	427	427	21.980

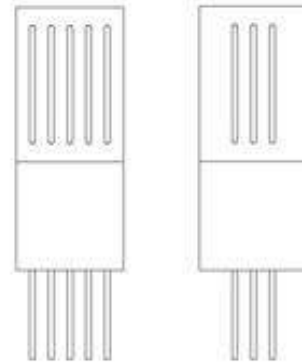
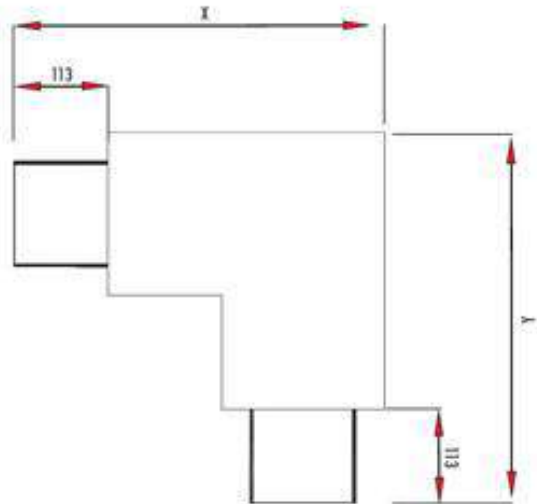


GR C 3P

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

GR C 3P+N+Pe

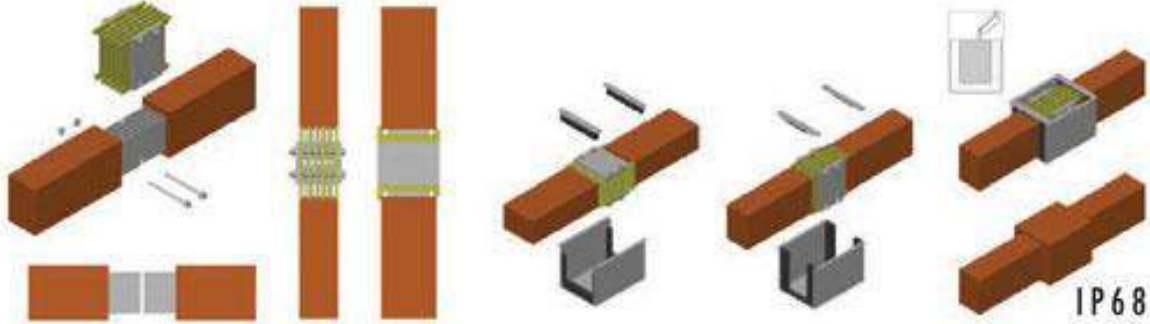
GR-C5 HE 05	862905005510051	500	402	402	29.640
GR-C5 HE 06	862906305510051	630	402	402	29.640
GR-C5 HE 08	862908005510051	800	402	402	29.640
GR-C5 HE 10	862910005510051	1000	402	402	29.640
GR-C5 HE 12	862912505510051	1250	402	402	29.640
GR-C5 HE 16	862916005510051	1600	402	402	29.640
GR-C5 HE 20	862920005510051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



## REÇİNE BUSBAR KANAL SİSTEMLERİ



Cost Resin Busbar Trunking Systems  
نظام قنطرة بسبار الراتنجي



### GRA - TEKNİK BİLGİLER GRA - Technical Details التفاصيل الفنية لـ GRA

		500A	630A	800A	1000A	1250A	1600A	2000A	2500A	
		500	630	800	1000	1250	1600	2000	2500	A
İzolasyon Gerilim جهد العزل	Insulation Voltage U <sub>i</sub>	36								kV
Faz/Neutr/Toprak Kesitli Cross Section of Phase/Neutral/Earth	s <sub>t</sub>	640	660	660	660	660	780	1080	1080	mm <sup>2</sup>
Faz Kısa Devre Akımı (1sn) Short-Circuit Current of Phases (1s) تيار توصيل الفازات (1 ثانية)	I <sub>sc</sub>	50	50	50	50	50	50	50	50	kA
Faz Pik Akımı قمة تيار الفازات	I <sub>p</sub>	110	110	110	110	110	110	110	110	kA
Faz Direnci مقاومة الفاز	R <sub>1</sub>	0,042	0,062	0,042	0,042	0,042	0,038	0,029	0,029	mΩ/m
Faz Reaktansı مفاعلة الفاز	X <sub>1</sub>	0,015	0,015	0,015	0,015	0,015	0,020	0,014	0,014	mΩ/m
Faz Empedansı مقاومة الفاز	Z <sub>1</sub>	0,044	0,064	0,044	0,044	0,044	0,048	0,032	0,032	mΩ/m
Düğenk Yükle Gerilim Düşümü Tablosu (ΔV) Voltage drop with distributed load الهبوط في الجهد في لوحة التوزيع Cosφ 0,95 α 0,5	(mV/m)	500A	630A	800A	1000A	1250A	1600A	2000A	2500A	
		[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	
		22,096	34,141	43,354	54,192	67,740	80,342	92,717	119,000	

### GRC - TEKNİK BİLGİLER GRC - Technical Details التفاصيل الفنية لـ GRC

		500A	630A	800A	1000A	1250A	1600A	2000A	2500A	3200A
		500	630	800	1000	1250	1600	2000	2500	3200
İzolasyon Gerilim جهد العزل	U <sub>i</sub>	36								kV
Faz/Neutr/Toprak Kesitli Cross Section of Phase/Neutral/Earth	s <sub>t</sub>	640	660	660	660	660	660	780	1080	1080
Faz Kısa Devre Akımı (1sn) Short-Circuit Current of Phases (1s) تيار توصيل الفازات (1 ثانية)	I <sub>sc</sub>	50	50	50	50	50	50	50	50	50
Faz Pik Akımı قمة تيار الفازات	I <sub>p</sub>	110	110	110	110	110	110	110	110	110
Faz Direnci مقاومة الفاز	R <sub>1</sub>	0,038	0,038	0,038	0,038	0,038	0,038	0,023	0,023	0,022
Faz Reaktansı مفاعلة الفاز	X <sub>1</sub>	0,014	0,014	0,014	0,014	0,014	0,014	0,013	0,013	0,013
Faz Empedansı مقاومة الفاز	Z <sub>1</sub>	0,041	0,041	0,041	0,041	0,041	0,041	0,026	0,026	0,026
Düğenk Yükle Gerilim Düşümü Tablosu (ΔV) Voltage drop with distributed load الهبوط في الجهد في لوحة التوزيع Cosφ 0,95 α 0,5	(mV/m)	500A	630A	800A	1000A	1250A	1600A	2000A	2500A	3200A
		[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]
		17,127	21,380	27,403	34,254	42,818	54,904	67,423	82,224	109,000



**TSE**  
TÜRK STANDARDLARI ENSTİTÜSÜ  
TÜRK STANDARDLARINA UYGUNLUK BELGESİ  
TURKISH STANDARDS INSTITUTION  
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

Belge Numarası / Certificate Number: 16021-TSE-4054  
 Belge Veriliş Tarihi / Date of Issue: 12.01.2019  
 Belge Gönümlülük Tarihi / Date of Issue of License: 26.01.2019  
 Belge Sahibi Kuruluşun Adı / Name of the License Holder: GEMAN ELEKTRİK TİCARET VE SANAYİ A.Ş.  
 Belge Sahibi Kuruluşun Adres / Address of the License Holder: İSTANBUL, ARSLANLI YAKAĞAZ ORGANİZE SANAYİ BÖLGESİ BAĞI BALIKBOĞAZI 41 125A BEŞİKTAŞ/İSTANBUL  
 Üretim Yeri Adı / Name of the Manufacturing Place: GEMAN ELEKTRİK TİCARET VE SANAYİ A.Ş.  
 Üretim Yeri Adres / Address of the Manufacturing Place: ÜZÜMLÜCE İNŞAAT KÖYÜ / İNŞAATÇI MEYDANI 1 CAD. 6. VE 7. BÖL. ÇAMLIYER KÖYÜ/İSTANBUL  
 İthal Ürün Belge Numarası / Importation of Substandard License No: 14.8.20.18.00736-4054  
 Teslim Yeri Adres / Delivery Address: GEMAN ELEKTRİK TİC. VE SAN. A.Ş. 4054  
 Sıralı Türk Standardı / Serial Turkish Standard: TÜRK STANDARDI TS EN 60601-1-2:2015  
 Belge Sahibi / License Holder: Bülent Ş. Başal (İmza Sahibi) (Date of Birth): 18.01.1978

Model: 12V-20-A4-A, 12-A5-A MODEL  
 12V-20V  
 FREKANS: 50 HZ  
 İP: 4000 (maks.)  
 FAZ: 20-40-70°  
 10-A4-A, 10-A5-A

**GENEL MÜDÜR**  
GENÇ OĞUZ  
ANKARA BELGELENDİRME MÜDÜRLÜĞÜ

**TSE**  
TÜRK STANDARDLARI ENSTİTÜSÜ  
TÜRK STANDARDLARINA UYGUNLUK BELGESİ EKİ  
TURKISH STANDARDS INSTITUTION  
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS APPENDIX

Belge Numarası / Certificate Number: 16021-TSE-4054 EKİ  
 Belge Veriliş Tarihi / Date of Issue: 12.01.2019  
 Belge Gönümlülük Tarihi / Date of Issue of License: 26.01.2019  
 Belge Sahibi Kuruluşun Adı / Name of the License Holder: GEMAN ELEKTRİK TİCARET VE SANAYİ A.Ş.  
 Belge Sahibi Kuruluşun Adres / Address of the License Holder: İSTANBUL, ARSLANLI YAKAĞAZ ORGANİZE SANAYİ BÖLGESİ BAĞI BALIKBOĞAZI 41 125A BEŞİKTAŞ/İSTANBUL  
 Üretim Yeri Adı / Name of the Manufacturing Place: GEMAN ELEKTRİK TİCARET VE SANAYİ A.Ş.  
 Üretim Yeri Adres / Address of the Manufacturing Place: ÜZÜMLÜCE İNŞAAT KÖYÜ / İNŞAATÇI MEYDANI 1 CAD. 6. VE 7. BÖL. ÇAMLIYER KÖYÜ/İSTANBUL  
 İthal Ürün Belge Numarası / Importation of Substandard License No: 14.8.20.18.00736-4054 EKİ  
 Teslim Yeri Adres / Delivery Address: GEMAN ELEKTRİK TİC. VE SAN. A.Ş. 4054  
 Sıralı Türk Standardı / Serial Turkish Standard: TÜRK STANDARDI TS EN 60601-1-2:2015  
 Belge Sahibi / License Holder: Bülent Ş. Başal (İmza Sahibi) (Date of Birth): 18.01.1978

Model: 12V-20V  
 FREKANS: 50 HZ  
 İP: 4000 (maks.)  
 FAZ: 20-40-70°  
 10-A4-A, 10-A5-A  
 12V-20V  
 İP: 4000 (maks.)  
 FAZ: 20-40-70°  
 10-A4-A, 10-A5-A  
 12V-20V  
 İP: 4000 (maks.)  
 FAZ: 20-40-70°  
 10-A4-A, 10-A5-A  
 12V-20V  
 İP: 4000 (maks.)  
 FAZ: 20-40-70°  
 10-A4-A, 10-A5-A

**GENEL MÜDÜR**  
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TÜRK STANDARDLARINA UYGUNLUK BELGESİ EKİ  
TURKISH STANDARDS INSTITUTION  
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS APPENDIX

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 Belge Sahibi Kuruluşun Adı / Name of the License Holder: GEMAN ELEKTRİK TİCARET VE SANAYİ A.Ş.  
 Belge Sahibi Kuruluşun Adres / Address of the License Holder: İSTANBUL, ARSLANLI YAKAĞAZ ORGANİZE SANAYİ BÖLGESİ BAĞI BALIKBOĞAZI 41 125A BEŞİKTAŞ/İSTANBUL  
 Üretim Yeri Adı / Name of the Manufacturing Place: GEMAN ELEKTRİK TİCARET VE SANAYİ A.Ş.  
 Üretim Yeri Adres / Address of the Manufacturing Place: ÜZÜMLÜCE İNŞAAT KÖYÜ / İNŞAATÇI MEYDANI 1 CAD. 6. VE 7. BÖL. ÇAMLIYER KÖYÜ/İSTANBUL  
 İthal Ürün Belge Numarası / Importation of Substandard License No: 14.8.20.18.00736-4054 EKİ  
 Teslim Yeri Adres / Delivery Address: GEMAN ELEKTRİK TİC. VE SAN. A.Ş. 4054  
 Sıralı Türk Standardı / Serial Turkish Standard: TÜRK STANDARDI TS EN 60601-1-2:2015  
 Belge Sahibi / License Holder: Bülent Ş. Başal (İmza Sahibi) (Date of Birth): 18.01.1978

Model: 12V-20V  
 FREKANS: 50 HZ  
 İP: 4000 (maks.)  
 FAZ: 20-40-70°  
 10-A4-A, 10-A5-A  
 12V-20V  
 İP: 4000 (maks.)  
 FAZ: 20-40-70°  
 10-A4-A, 10-A5-A  
 12V-20V  
 İP: 4000 (maks.)  
 FAZ: 20-40-70°  
 10-A4-A, 10-A5-A

**GENEL MÜDÜR**  
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TÜRK STANDARDLARI ENSTİTÜSÜ  
TÜRK STANDARDLARINA UYGUNLUK BELGESİ EKİ  
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 İthal Ürün Belge Numarası / Importation of Substandard License No: 14.8.20.18.00736-4054 EKİ  
 Teslim Yeri Adres / Delivery Address: GEMAN ELEKTRİK TİC. VE SAN. A.Ş. 4054  
 Sıralı Türk Standardı / Serial Turkish Standard: TÜRK STANDARDI TS EN 60601-1-2:2015  
 Belge Sahibi / License Holder: Bülent Ş. Başal (İmza Sahibi) (Date of Birth): 18.01.1978

Model: 12V-20V  
 FREKANS: 50 HZ  
 İP: 4000 (maks.)  
 FAZ: 20-40-70°  
 10-A4-A, 10-A5-A  
 12V-20V  
 İP: 4000 (maks.)  
 FAZ: 20-40-70°  
 10-A4-A, 10-A5-A  
 12V-20V  
 İP: 4000 (maks.)  
 FAZ: 20-40-70°  
 10-A4-A, 10-A5-A

**GENEL MÜDÜR**  
GENÇ OĞUZ  
ANKARA BELGELENDİRME MÜDÜRLÜĞÜ

# SERTİFİKALAR



# Certificates الشهادات



ASSOCIAZIONE PER LA CERTIFICAZIONE  
DELLA APPARECCHIATURA ELETTRICA

VIA DEL LAVORO, 3 - 20133 BERGAMO (Italy)  
Tel. +39 035 4172941 - e-mail: acca@acca.it

### Certificate of conformity n° A 14.035

page 1 of 2

**Apparatus:** Low-voltage tap-off unit 100V (U<sub>N</sub>) - 250V (U<sub>1</sub>) - 500V (U<sub>2</sub>) - 80V (U<sub>3</sub>) - 3A, 1 (I<sub>N</sub>) - 30A (I<sub>1</sub>) at 50V - 50 - 20V (I<sub>2</sub>) and Automatic fusing

**Designation:** GGD-GS-8-438 A PLUG-IN TBR

**Manufacturer or responsible vendor:** GERMAN ELEKTRO TIC, ve SAN. A. S.  
Academy Yolu (Organize Sanayi) Bölgesi Cad. Beşiktaş No. 39-41 - P.K. 37  
34031 TÜZLA - İSTANBUL (Turkey)

**Applicant:** GERMAN ELEKTRO

**Tested by:** VERKAVNL - 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 60372 (2005-02) and IEC 61439-4 (2005-02).

The results of the tests carried out fulfil the requirements of the relevant parts of IEC 61439-4 (2005-05), according to sub. 3B.1 of IEC 61439-4 (2005-05).

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

*Verkavnl*  
The General Secretary  
Date: 2014.05.30

ACAE is member of:





ASSOCIAZIONE PER LA CERTIFICAZIONE  
DELLA APPARECCHIATURA ELETTRICA

VIA DEL LAVORO, 3 - 20133 BERGAMO (Italy)  
Tel. +39 035 4172941 - e-mail: acca@acca.it

### Certificate of conformity n° A 14.059

page 1 of 2

**Apparatus:** Low-voltage busbar trunking system 80V (U<sub>N</sub>) - 250V (U<sub>1</sub>) - 500V (U<sub>2</sub>) - 3,3kV (U<sub>3</sub>) - 3A, 1 (I<sub>N</sub>) - 42A (I<sub>1</sub>) - 80A (I<sub>2</sub>) - 5 Copper Bars (375-50-PE) and Automatic fusing (E)

**Designation:** GL

**Manufacturer or responsible vendor:** GERMAN ELEKTRO TIC, ve SAN. A. S.  
Academy Yolu (Organize Sanayi) Bölgesi Cad. Beşiktaş No. 39-41 - P.K. 37 -  
34031 TÜZLA - İSTANBUL (Turkey)

**Applicant:** GERMAN ELEKTRO - ISTANBUL (Turkey)

**Tested by:** IFF - GIELEN (Germany)  
IFA - GIELEN (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 60372 (2005-02).

The results of the tests carried out fulfil the requirements of the relevant parts of IEC 61439-4 (2005-05), according to sub. 3B.1 of IEC 61439-4 (2005-05).

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

This document includes:  
ACAE Certificate No. 17021  
Issue Date: 07 July 2010  
Extract from LOVAG Test Report No. 290398 (pages 1, 12)  
Issue Date: 11.11.2009



*Verkavnl*  
The General Secretary  
Date: 2014.05.30



ASSOCIAZIONE PER LA CERTIFICAZIONE  
DELLA APPARECCHIATURA ELETTRICA

VIA DEL LAVORO, 3 - 20133 BERGAMO (Italy)  
Tel. +39 035 4172941 - e-mail: acca@acca.it



### Certificate of Conformity

LOVAG Certificate No. 87 34394  
Page 1 of 1

**Apparatus:** Low-voltage busbar trunking system 80V (U<sub>N</sub>) - 250V (U<sub>1</sub>) - 500V (U<sub>2</sub>) - 2,5kV (U<sub>3</sub>) - 3,5A, 1 (I<sub>N</sub>) - 5,25A (I<sub>1</sub>) - 10V 5 Copper Bars (375-50-PE) and Automatic fusing (E)

**Designation:** GNL 25-80A

**Manufacturer or responsible vendor:** GERMAN ELEKTRO TIC, ve SAN. A. S.  
Academy Yolu (Organize Sanayi) Bölgesi Cad. Beşiktaş No. 39-41 - P.K. 37  
34031 TÜZLA - İSTANBUL (Turkey)

**Applicant:** GERMAN ELEKTRO - ISTANBUL (Turkey)

**Tested by:** VERKAVNL - 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 60372 (2005-02).

The results of the tests carried out fulfil the requirements of the relevant parts of IEC 61439-4 (2005-05), according to sub. 3B.1 of IEC 61439-4 (2005-05).

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: ACAS  
Verkavnl  
Authorized signature  
Date: 2014.05.30





# SERTİFİKALAR



# Certificates الشهادات

**Lloyd's Register**  
LRQA

**ONAY SERTİFİKASI**  
Bu Kalite Yönetim Sistemi Sertifikası,

**GERSAN ELEKTRİK TİC. ve SAN. A.Ş.**  
İstanbul Anadolu Yakası Organize Sanayi Bölgesi  
Gazi Bulvarı No: 39 34953 Tuzla – İstanbul / TÜRKİYE

firmasının Kalite Yönetim Sistemi'nin Lloyd's Register Quality Assurance Limited tarafından onaylandığını belgeledir. Bu sertifika aşağıda belirtilen kalite yönetim standartları için geçerlidir.

**ISO 9001:2008**

Kalite Yönetim Sistemi kapsamı:

**Ürün Yelpazesindeki Ürünlerin Tasarım ve Geliştirilmesi; Döşeme Altı Busb, Askı ve Gergi Takımları, 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 Üretimi ve Satışı**

Sertifika Onay No: 078005020A İlk onay: 27 Ocak 2004  
Geçerlilik tarihi: 14 Eylül 2018

Lloyd's Register Quality Assurance Limited adına  
Lloyd's Register Grouping Ltd. tarafından onaylanmıştır.

**UKAS**  
9001

High Register Standard Ltd. is a member of the Veritas Group. Veritas Group is a member of the Veritas Group of Companies. Veritas Group of Companies is a member of the Veritas Group of Companies. Veritas Group of Companies is a member of the Veritas Group of Companies.

**Lloyd's Register**  
LRQA

**CERTIFICATE OF APPROVAL**  
This is to certify that the Quality Management System of

**GERSAN ELEKTRİK TİC. ve SAN. A.Ş.**  
İstanbul Anadolu Yakası Organize Sanayi Bölgesi  
Gazi Bulvarı No: 39 34953 Tuzla – İstanbul / TURKEY

has been approved by Lloyd's Register Quality Assurance to the following Quality Management System Standard:

**ISO 9001:2008**

The Quality Management System is applicable to:

**Design and Development of Products in The Range: Manufacture and Sales of Under Floor Junction Boxes, Tension and Suspension Materials, G-CHARGE Electric Vehicle Charging Station, G-BUS Automation System, GER-LED Street Led Luminaires and LED-BUS Interior Led Luminaires Systems**

Approval Certificate No: 078005020A Original Approval: 27 January 2004  
Current Certificate: 07 February 2018  
Certificate Expiry: 14 September 2018

Issued by Lloyd's Register Grouping Ltd. on behalf of Lloyd's Register Quality Assurance Limited.

**UKAS**  
9001

High Register Standard Ltd. is a member of the Veritas Group. Veritas Group is a member of the Veritas Group of Companies. Veritas Group of Companies is a member of the Veritas Group of Companies. Veritas Group of Companies is a member of the Veritas Group of Companies.

**Lloyd's Register**  
LRQA

**ONAY SERTİFİKASI**  
Bu Kalite Yönetim Sistemi Sertifikası,

**GERSAN ELEKTRİK TİC. ve SAN. A.Ş.**  
Çaycuma Org. San. 1. Nolu OSB Meydanı 1. Cadde  
6. ve 7. Sokak Çaycuma – Zonguldak / TÜRKİYE

firmasının Kalite Yönetim Sistemi'nin Lloyd's Register Quality Assurance Limited tarafından onaylandığını belgeledir. Bu sertifika aşağıda belirtilen kalite yönetim standartları için geçerlidir.

**ISO 9001:2008**

Kalite Yönetim Sistemi kapsamı:

**Kablo Kanalı, Merdiveni ve Aksesuarları, Döşeme Altı Kablo Kanalı, Busb ve Aksesuarları, Topraklama Malzemeleri ve Paralelizi, Bağlantı Elemanları, Platform İzgaraları, Askı ve Gergi Takımları, Busbar Kanalı İmalatı, Sokak Daldırma Galvanizleme İşlemi, Elektrik Dağıtım Panoları, G-BUS Otomasyon Sistemi, GER-LED Sokak İçin Led Aydınlatma Armatürü ve LED-BUS İç Ortam Led Aydınlatma Armatür Sistemleri Üretimi**

Sertifika Onay No: 078005020A1 İlk onay: 27 Ocak 2004  
Geçerlilik tarihi: 14 Eylül 2018

Lloyd's Register Quality Assurance Limited adına  
Lloyd's Register Grouping Ltd. tarafından onaylanmıştır.

**UKAS**  
9001

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**Lloyd's Register**  
LRQA

**CERTIFICATE OF APPROVAL**  
This is to certify that the Quality Management System of

**GERSAN ELEKTRİK TİC. ve SAN. A.Ş.**  
Çaycuma Org. San. 1. Nolu OSB Meydanı 1. Cadde  
6. ve 7. Sokak Çaycuma – Zonguldak / TURKEY

has been approved by Lloyd's Register Quality Assurance to the following Quality Management System Standard:

**ISO 9001:2008**

The Quality Management System is applicable to:

**Manufacture of Cable Trays, Ladders and Accessories, Under Floor Cable Tray, Junction Boxes and Accessories, Mounting Materials, Fanning Materials and Lighting Rod, Tension and Suspension Materials, Busbar Duct, Hot Dip Galvanization Implementation, Manufacture of Electrical Panel Enclosures, G-BUS Automation System, GER-LED Street Led Luminaires and LED-BUS Interior Led Luminaires Systems**

Approval Certificate No: 078005020A1 Original Approval: 27 January 2004  
Current Certificate: 07 February 2018  
Certificate Expiry: 14 September 2018

Issued by Lloyd's Register Grouping Ltd. on behalf of Lloyd's Register Quality Assurance Limited.

**UKAS**  
9001

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# SERTİFİKALAR



# Certificates الشهادات

**Lloyd's Register**  
LRQA

**ONAY SERTİFİKASI**  
Bu Çevre Yönetim Sistemi Sertifikası,

**GERSAN ELEKTRİK TİC. ve SAN. A.Ş.**  
İstanbul Anadolu Yakası Organize Sanayi Bölgesi  
Gazi Bulvarı No: 39 34953 Tuzla – İstanbul / TÜRKİYE

İrmasının Çevre Yönetim Sistemi'nin Lloyd's Register Gözetim Ltd. Şti tarafından onaylandığını belgelemektedir. Bu sertifika aşağıda belirtilen çevre yönetim standartları için geçerlidir.

**ISO 14001: 2004**

Çevre Yönetim Sistemi kapsamı:

**Ürün Yelpazesindeki Ürünlerin Tasarımı ve Geliştirilmesi; Döşeme Altı Busbar, Askı ve Gergi Takımları, G-CHARGE Elektrikli Arac Şarj İstasyonu, G-BUS Otomasyon Sistemi, GER-LED Sokak İçin Led Aydınlatma Armatürü ve LED-BUS İç Ortam Led Aydınlatma Armatür Sistemleri Üretimi ve Satışı**

Sertifika No: 15700052286  
İlk onay: 17 March 2010  
Geçerli sertifikası: 07 February 2015  
Geçerlilik süresi: 14 September 2018

*[Signature]*  
Lloyd's Register Quality Assurance Limited adına  
Lloyd's Register Gözetim Ltd Şti tarafından verilmektedir.

**LRQA**

Lloyd's Register Gözetim Ltd Şti, 2014 yılında İngiltere'de kurulmuş bir şirkettir. Şirketin merkez ofisi İngiltere'de, diğer ofisleri ise dünya genelindedir. Şirketin Türkiye'deki ofisi İstanbul'da, Zonguldak'ta ve Bursa'da bulunmaktadır. Şirketin Türkiye'deki faaliyetleri için www.lloydregister.com.tr adresine ulaşabilirsiniz.

**Lloyd's Register**  
LRQA

**CERTIFICATE OF APPROVAL**  
This is to certify that the Environmental Management System of

**GERSAN ELEKTRİK TİC. ve SAN. A.Ş.**  
İstanbul Anadolu Yakası Organize Sanayi Bölgesi  
Gazi Bulvarı No: 39 34953 Tuzla – İstanbul / TURKEY

has been approved by Lloyd's Register Quality Assurance to the following Environmental Management System Standard:

**ISO 14001: 2004**

The Environmental Management System is applicable to:

**Design and Development of Products in The Range; Manufacture and Sales of Under Floor Junction Boxes, Tension and Suspension Materials, G-CHARGE Electric Vehicle Charging Station, G-BUS Automation System, GER-LED Street Led Luminaires and LED-BUS Interior Led Luminaires Systems**

Approval Certificate No: 15700052286  
Original Approval: 17 March 2010  
Current Certificate: 07 February 2015  
Certificate Expiry: 14 September 2018

*[Signature]*  
Issued by Lloyd's Register Quality Assurance Limited, for and on behalf of Lloyd's Register Quality Assurance Limited.

**LRQA**

Lloyd's Register Quality Assurance Limited is a company registered in the United Kingdom. The company's head office is in the United Kingdom. The company has offices in Turkey, including Istanbul, Zonguldak and Bursa. For more information, please visit www.lloydregister.com.tr.

**Lloyd's Register**  
LRQA

**ONAY SERTİFİKASI**  
Bu Çevre Yönetim Sistemi Sertifikası,

**GERSAN ELEKTRİK TİC. ve SAN. A.Ş.**  
Çaycuma Org. San. 1. Nolu OSB Meydanı 1. Cadde  
6. ve 7. Sokak Çaycuma – Zonguldak / TÜRKİYE

İrmasının Çevre Yönetim Sistemi'nin Lloyd's Register Gözetim Ltd. Şti tarafından onaylandığını belgelemektedir. Bu sertifika aşağıda belirtilen çevre yönetim standartları için geçerlidir.

**ISO 14001: 2004**

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Sertifika No: 15700052286  
İlk onay: 17 March 2010  
Geçerli sertifikası: 07 February 2015  
Geçerlilik süresi: 14 September 2018

*[Signature]*  
Lloyd's Register Quality Assurance Limited adına  
Lloyd's Register Gözetim Ltd Şti tarafından verilmektedir.

**LRQA**

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**Lloyd's Register**  
LRQA

**CERTIFICATE OF APPROVAL**  
This is to certify that the Environmental Management System of

**GERSAN ELEKTRİK TİC. ve SAN. A.Ş.**  
Çaycuma Org. San. 1. Nolu OSB Meydanı 1. Cadde  
6. ve 7. Sokak Çaycuma – Zonguldak / TURKEY

has been approved by Lloyd's Register Quality Assurance to the following Environmental Management System Standard:

**ISO 14001: 2004**

The Environmental Management System is applicable to:

**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, GER-LED Street Led Luminaires and LED-BUS Interior Led Luminaires Systems**

Approval Certificate No: 15700052286  
Original Approval: 17 March 2010  
Current Certificate: 07 February 2015  
Certificate Expiry: 14 September 2018

*[Signature]*  
Issued by Lloyd's Register Quality Assurance Limited, for and on behalf of Lloyd's Register Quality Assurance Limited.

**LRQA**

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# SERTİFİKALAR



# Certificates الشهادات

**Lloyd's Register  
URQA**

**ONAY SERTİFİKASI**

Bu İş Sağlığı ve Güvenliği Yönetim Sistemi Sertifikası :

**GERSAN ELEKTRİK TİC. ve SAN. A.Ş.**  
İstanbul Anadolu Yakası Organize Sanayi Bölgesi/  
Gazi Bulvarı No: 39 34953 Tuzla - İstanbul / TÜRKİYE

İrmasının İş Sağlığı ve Güvenliği Yönetim Sistemi'nin Lloyd's Register Quality Assurance Limited tarafından onaylandığını beyesidir. Bu sertifikta aşağıda belirtilen standartlar için geçerlidir.

**OHSAS 18001:2007**

İş Sağlığı ve Güvenliği Yönetim Sistemi'nin kapsamı:

**Ürün Yelpazesindeki Ürünlerin Tasarımı ve Geliştirilmesi; Döşeme Altı Buslı, Askı ve Gergi Takımları, 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 Üretimi ve Satışı**

Sertifika Onay No: IS19000522/C İk inen: 24 Nisan 2012  
Şerhli sertifikta: 07 Şubat 2019  
Geçerlilik süresi: 06 Şubat 2019

*[Signature]*  
Lloyd's Register Quality Assurance Limited adına  
Lloyd's Register Güvenlik Ltd.Şti. tarafından verilmektedir.

UKAS

Lloyd's Register Quality Assurance Limited  
11, South Colindale Avenue, London, NW9 1EQ, UK  
Tel: +44 (0)20 8996 9001  
www.lloydregister.com

**Lloyd's Register  
URQA**

**CERTIFICATE OF APPROVAL**

This is to certify that the Occupational Health & Safety Management System of

**GERSAN ELEKTRİK TİC. ve SAN. A.Ş.**  
İstanbul Anadolu Yakası Organize Sanayi Bölgesi/  
Gazi Bulvarı No: 39 34953 Tuzla - İstanbul / TURKEY

has been approved by Lloyd's Register Quality Assurance to the following specifications:

**OHSAS 18001:2007**

The Occupational Health & Safety Management System is applicable to:

**Design and Development of Products in The Range, Manufacture and Sales of Under Floor Junction Boxes, Tension and Suspension Materials, G-CHARGE Electric Vehicle Charging Station, G-BUS Automation System, GER-LED Street Led Luminaires and LED-BUS Interior Led Luminaires Systems**

Approval Certificate No: IS19000522/C Original Approval: 24 April 2012  
Current Certificate: 07 February 2019  
Certificate Expiry: 06 February 2019

*[Signature]*  
Issued by: Lloyd's Register Quality Assurance Limited  
For and on behalf of Lloyd's Register Quality Assurance Limited

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Tel: +44 (0)20 8996 9001  
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URQA**

**ONAY SERTİFİKASI**

Bu İş Sağlığı ve Güvenliği Yönetim Sistemi Sertifikası :

**GERSAN ELEKTRİK TİC. ve SAN. A.Ş.**  
Çaycuma Org. San. 1. Nolu OSB Meydanı 1. Caddesi  
6. ve 7. Sokak Çaycuma - Zonguldak / TÜRKİYE

İrmasının İş Sağlığı ve Güvenliği Yönetim Sistemi'nin Lloyd's Register Quality Assurance Limited tarafından onaylandığını beyesidir. Bu sertifikta aşağıda belirtilen standartlar için geçerlidir.

**OHSAS 18001:2007**

İş Sağlığı ve Güvenliği Yönetim Sistemi'nin kapsamı:

**Kablo Kanalı, Merdiveni ve Aksesuarları, Döşeme Altı Kablo Kanalı, Buslı ve Aksesuarları, Topraklama Malzemeleri ve Paratoner Bağlı Elemanları, Platform İşaretleri, Askı ve Gergi Takımları, Busbar Kanalı İmalatı, Sacak Dalıdırma Galvanizleme İşlemi, Elektrikli Dağıtım Panelleri, G-BUS Otomasyon Sistemi, GER-LED Sokak İçin Led Aydınlatma Armatürü ve LED-BUS İç Ortam Led Aydınlatma Armatür Sistemleri Üretimi**

Sertifika Onay No: IS19000522/C1 İk inen: 24 Nisan 2012  
Şerhli sertifikta: 07 Şubat 2019  
Geçerlilik süresi: 06 Şubat 2019

*[Signature]*  
Lloyd's Register Quality Assurance Limited adına  
Lloyd's Register Güvenlik Ltd.Şti. tarafından verilmektedir.

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URQA**

**CERTIFICATE OF APPROVAL**

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**GERSAN ELEKTRİK TİC. ve SAN. A.Ş.**  
Çaycuma Org. San. 1. Nolu OSB Meydanı 1. Caddesi  
6. ve 7. Sokak Çaycuma - Zonguldak / TURKEY

has been approved by Lloyd's Register Quality Assurance to the following specifications:

**OHSAS 18001:2007**

The Occupational Health & Safety Management System is applicable to:

**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, GER-LED Street Led Luminaires and LED-BUS Interior Led Luminaires Systems**

Approval Certificate No: IS19000522/C1 Original Approval: 24 April 2012  
Current Certificate: 07 February 2019  
Certificate Expiry: 06 February 2019

*[Signature]*  
Issued by: Lloyd's Register Quality Assurance Limited  
For and on behalf of Lloyd's Register Quality Assurance Limited

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Lloyd's Register Quality Assurance Limited  
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# SERTİFİKALAR



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on the given range of performance tests

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**TEST CONFIRMATION**  
on the given range of performance tests

**IPH**



**LOVAG** Test Report No. 7273/VNL

**Test Laboratory** : VERG-YM, Electric Large Laboratories Ltd. 16-115B Budapest, Vasgyagy u. 2-4 HUNGARY Telephone: +36 141 73157 Fax: +36 141 73162 www.ver.hu

**Client** : GERAN ELEKTRIK Tc. ve San. A.Ş. Anadolu Yakası Organize Sanayi Bölgesi Gaz Bulvarı No:26-41 34953 Tuzla-İstanbul TURKEY

**Manufacturer** : GERAN ELEKTRIK Tc. ve San. A.Ş. Anadolu Yakası Organize Sanayi Bölgesi Gaz Bulvarı No:26-41 34953 Tuzla-İstanbul TURKEY

**Test object** : Busbar Trunking System  
**Type designation** : GS COMPACT 80-MCCC81000  
**Date(s) of test(s)** : 10.05.2013  
**Date of receipt** : 02.05.2013  
**Test specifications** : IEC/EN 60439-2: Ed.3.0 (2005) + A1 (2009)  
**Test results** : The tested busbar trunking system met the requirements of the relevant standards.  
 8.2.1 Verification of temperature-rise tests - PASSED  
 8.2.2 Dielectric properties - PASSED  
 8.2.3 Verification of mechanical operation - PASSED

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

Date of issue: 14.05.2013 Responsible Test Laboratory

Signatures:  
 /Lüpe Topal / Responsible for the test  
 /Nispet Marçhan / Supervised by  
 /Tibar Topal / Responsible observer  
 /Dr. Leşmi Vargil / Managing director

**LOVAG** Test Report No. 7289/VNL

**Test Laboratory** : VERG-YM, Electric Large Laboratories Ltd. 16-115B Budapest, Vasgyagy u. 2-4 HUNGARY Telephone: +36 141 73157 Fax: +36 141 73162 www.ver.hu

**Client** : GERAN ELEKTRIK Tc. ve San. A.Ş. Anadolu Yakası Organize Sanayi Bölgesi Gaz Bulvarı No:26-41 34953 Tuzla-İstanbul TURKEY

**Manufacturer** : GERAN ELEKTRIK Tc. ve San. A.Ş. Anadolu Yakası Organize Sanayi Bölgesi Gaz Bulvarı No:26-41 34953 Tuzla-İstanbul TURKEY

**Test object** : Busbar Trunking System  
**Type designation** : GS COMPACT 1000  
**Date(s) of test(s)** : 08.05.2013  
**Date of receipt** : 05.05.2013  
**Test specifications** : IEC/EN 60439-2: Ed.3.0 (2005) + A1 (2009)  
**Test results** : The tested busbar trunking system met the requirements of the relevant standards.  
 8.2.1 Verification of temperature-rise tests - PASSED  
 8.2.2 Dielectric properties - PASSED  
 8.2.3 Verification of mechanical operation - PASSED

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

Date of issue: 14.05.2013 Responsible Test Laboratory

Signatures:  
 /Lüpe Topal / Responsible for the test  
 /Nispet Marçhan / Supervised by  
 /Tibar Topal / Responsible observer  
 /Dr. Leşmi Vargil / Managing director

**LOVAG** Test Report No. 7273/VNL

**Test Laboratory** : VERG-YM, Electric Large Laboratories Ltd. 16-115B Budapest, Vasgyagy u. 2-4 HUNGARY Telephone: +36 141 73157 Fax: +36 141 73162 www.ver.hu

**Client** : GERAN ELEKTRIK Tc. ve San. A.Ş. Anadolu Yakası Organize Sanayi Bölgesi Gaz Bulvarı No:26-41 34953 Tuzla-İstanbul TURKEY

**Manufacturer** : GERAN ELEKTRIK Tc. ve San. A.Ş. Anadolu Yakası Organize Sanayi Bölgesi Gaz Bulvarı No:26-41 34953 Tuzla-İstanbul TURKEY

**Test object** : Busbar Trunking System  
**Type designation** : GS COMPACT 1000  
**Date(s) of test(s)** : 02.05.2013 - 10.05.2013  
**Date of receipt** : 02.05.2013  
**Test specifications** : IEC/EN 60439-2: Ed.3.0 (2005) + A1 (2009)  
**Test results** : The tested busbar trunking system met the requirements of the relevant standards.  
 8.2.1 Verification of temperature-rise tests - PASSED  
 8.2.2 Verification of dielectric properties - PASSED  
 8.2.3 Verification of mechanical operation - PASSED

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

Date of issue: 14.05.2013 Responsible Test Laboratory

Signatures:  
 /Lüpe Topal / Responsible for the test  
 /Nispet Marçhan / Supervised by  
 /Tibar Topal / Responsible observer  
 /Dr. Leşmi Vargil / Managing director

**LOVAG** Test Report No. 7422/VNL

**Test Laboratory** : VERG-YM, Electric Large Laboratories Ltd. 16-115B Budapest, Vasgyagy u. 2-4 HUNGARY Telephone: +36 141 73157 Fax: +36 141 73162 www.ver.hu

**Client** : GERAN ELEKTRIK Tc. ve San. A.Ş. Anadolu Yakası Organize Sanayi Bölgesi Gaz Bulvarı No:26-41 34953 Tuzla-İstanbul TURKEY

**Manufacturer** : GERAN ELEKTRIK Tc. ve San. A.Ş. Anadolu Yakası Organize Sanayi Bölgesi Gaz Bulvarı No:26-41 34953 Tuzla-İstanbul TURKEY

**Test object** : Busbar Trunking System Tap-Off Unit  
**Type designation** : GS COMPACT 80-MCCC81000  
**Date(s) of test(s)** : 10.05.2013  
**Date of receipt** : 02.05.2013  
**Test specifications** : IEC/EN 60439-2: Ed.3.0 (2005) + A1 (2009)  
**Test results** : The tested tap-off line with built-in MCCB met the requirements of the relevant standards.  
 8.2.1 Verification of temperature-rise tests - PASSED  
 8.2.2 Dielectric properties - PASSED  
 8.2.3 Verification of mechanical operation - PASSED

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

Date of issue: 14.05.2013 Responsible Test Laboratory

Signatures:  
 /Lüpe Topal / Responsible for the test  
 /Nispet Marçhan / Supervised by  
 /Tibar Topal / Responsible observer  
 /Dr. Leşmi Vargil / Managing director

**LOVAG** Test Report No. 7282/VNL

**Test Laboratory** : VERG-YM, Electric Large Laboratories Ltd. 16-115B Budapest, Vasgyagy u. 2-4 HUNGARY Telephone: +36 141 73157 Fax: +36 141 73162 www.ver.hu

**Client** : GERAN ELEKTRIK Tc. ve San. A.Ş. Anadolu Yakası Organize Sanayi Bölgesi Gaz Bulvarı No:26-41 34953 Tuzla-İstanbul TURKEY

**Manufacturer** : GERAN ELEKTRIK Tc. ve San. A.Ş. Anadolu Yakası Organize Sanayi Bölgesi Gaz Bulvarı No:26-41 34953 Tuzla-İstanbul TURKEY

**Test object** : Busbar Trunking System Tap-Off Unit  
**Type designation** : GS COMPACT 80-MCCC81000  
**Date(s) of test(s)** : 10.05.2013  
**Date of receipt** : 02.05.2013  
**Test specifications** : IEC/EN 60439-2: Ed.3.0 (2005) + A1 (2009)  
**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 - ocalograms  
 other pages - drawings  
 diagrams - photographs

Date of issue: 14.05.2013 Responsible Test Laboratory

Signatures:  
 /Lüpe Topal / Responsible for the test  
 /Nispet Marçhan / Supervised by  
 /Tibar Topal / Responsible observer  
 /Dr. Leşmi Vargil / Managing director





## SİRKET PROFİLİ

since  
**1980**

Elektrik sektörünün öncü kuruluşlarından olan GERSAN A.Ş., enerji santrallerinden evdeki prize kadar uzanan her üzerindeki her türlü enerji tesisleri, birleştirme, taşıma sistemleri ve malzemeleri üretmektedir.

Bu sektördeki üretimine 1980 yılında Gersan Ticaret olarak başlamıştır. 1985 yılından itibaren GERSAN A.Ş. olarak devam ederek 36 yıllık bir deneyime sahip olmuştur.

Ana faaliyet alanlarımız;  
Binalar,  
Sanayi Tesisleri,  
Fabrikalar,  
Havuzları,  
Petrol Gaz Rafinerileri,  
Altyapı Merkezleri,  
Oteller

gibi üretim niteliğinde sağlamaları ihtiyacı olan

Buhar İletim ve Dağıtım Sistemleri,  
Kablo Tesisi Sistemleri,  
Taşıma Aracı Demirler,  
Taşıma ve Yürütme Kurulum Sistemleri,  
Ana Ana Dağıtım Panelleri ve Rack Kabinleri,  
Elektrikli Araç Şarj Sistemleri,  
Stasyonlar Sistemleri,  
Düşme Alın Koruyucu ve Barajlar,  
Çeşitli Kablo Birleştirme ve Ayırma Elemanları,  
Kablo ve Boru İzolasyon Sistemleri,  
Özel tesisler, Çelik Konstrüksiyon Birleştirme ve Sabitleştirme Sistemleri,  
Platform İzolasyon Sistemleridir.

GERSAN A.Ş. üretime başladığı günden bu yana işinde uzman teknik ve akademik personeliyle ürünlerin üretiminden kalıplarına kadar olan aşamada bir türlü teknik hizmet ve danışmanlık müdahalesine sunmaktadır. Bu anlamda GERSAN A.Ş. tüm 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 eda güçleri, sıcaklık ortamı, elektriksel karakteristiklerinin, Yapısal dayanımı, Eslenme karşı dayanımı, Ölçümleri altına karşı izolasyon dayanımının, Alev yayılmasına karşı dayanıklılığın doğrulanması, Yangın bariyeri ve EMC testleri hassas cihazlar ile yapılmaktadır.

Ürünlerimiz belgelere dayandırılmıştır; üretimimiz; GOST, IEC, BS, TSE, EN, ISO 9001 ISO 14001, ISO 18001, CE sertifikalarımız ile Vietnam'dan Süriye, Afganistan'dan Sri Lanka'ya, Kazakistan'dan Rusya'ya, Fuz'han Türk Cumhuriyetleri, Arnavutluk'tan Dubai'ye ve Katar'a, çeşitli ülkelerde gerçekleştirilen projelerde ülkemizin gurur kaynağı olmaktadır.

Kalte politikamız; müşterilerimizin işlemlerini kolaylaştırarak kaliteli ürün ve hizmetle 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 potansiyeldir. Gersan A.Ş., 14661 halka açık olan, BIST 100'e liste olmuş bir şirkettir.

### Company Profile

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

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 36 years.

Our main fields of operations are: manufacture of busbar transmission and distribution systems, cable support systems, grounding and lightning protection systems, spark gap arresters, main and intermediate distribution plates, electrical type cable supports and ladders, isolation systems, support elements, various cable combinations; accessories, joints and support elements, cable and pipe tapping systems, special casings that must be applied at any kind of projects, steel construction combination and fixation systems required for Building, industrial plants, Gas factories, Airports, Oil-Gas refineries, Mills, platform lifts 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 students 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, mechanical strength, strength against shock, isolation strength against extraneous temperatures, flame propagation strength, fire barrier, voltage decrease in system and GRC 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 of are some of prime of projects realized at various countries such as Viet Nam, Chile, 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 price, to make timely continuous of service and quality. Our target quality items. Our basic target is to be a operation.

Our products are under patent held company quoted in BIST

Gersan A.Ş. is a IATF publicly 100 ( Istanbul Stock Exchange )

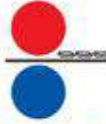


DÜNYADA TEDARİKÇİSİ OLDUĞUMUZ FİRMALAR *The Companies Which We Supply Materials in Worldwide*

الشركات التي نورد لها حول العالم

	<p>Alstom Power Systems 4,avenue Andre Malraux 92309 Levallois Perret Cedex - FRANCE Tel:+33(0) 141492000 Fax:+33(0) 141492485</p>
	<p>Siemens Pakistan Engineering Co. LTD. B-72 ESTATE AVENUE S.I.T.E P.O BOX 7158 KARACHI-75700 PAKISTAN</p>
	<p><b>Vibitech GmbH</b> Rostocker Chaussee 46 18437 Stralsund</p>
	<p>Petrofac International LTD. Petrofac House, Al-Soor street P.O. Box:23467 SHARJAH/U.A.E.</p>
	<p><b>Mitsubishi Electric Corporation</b> P O Box 1554, Dubai, UAE. Tel: + (971) 4 282 7763 Fax: + (971) 4 282 7716</p>
	<p><b>I.Gama Engineering Dubai &amp; Northern Emirates</b> PO Box 8886, E3-12, SAIF Zone, Sharjah, UAE T :+971 6 5981 999 D :+971 6 5981 945</p>
	<p><b>ABB INDUSTRIES LLC .</b> P.O.BOX 11070.....DUBAI, U.A.E. TEL: +971 4 3401777 FAX: +971 4 3401530</p>
	<p><b>SIDEM (STÉ INTERNATIONALE DE DESSALEMENT</b> 20-22 rue de Clichy 75009 PARIS - FRANCE Phone :+33 149 957 676 Fax :+33 149 957 695</p>





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SAMSUNG.

850 YATAKLI DEVLET HASTANESİ  
LAV ÇAM FABRİKASI  
ALP PLASTİK AMBALAJ  
ÖZÜNER KAÜÇUK  
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ÜÇGE

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TORKU PATATES DEPOSU  
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TAKAB PROJECT

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ABC MOBİLYA  
MİKOSTA OTEL ÇEŞME  
RUBA FERMUAR  
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JTY TÜRÜN  
ALTERA TİBBİ MALZ.  
ÇBU MURADIYE KAMP. YURT BİNASI

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PRESIDENTIAL GUARD CAMP  
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TÜPRAS RUP PROJESİ  
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DİKTAS MAKİNA ÖREN BAYAN  
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CRATOS OTEL

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LÜBNAN

## BUSBAR KANAL SİSTEMLERİ



## Busbar Trunking Systems انظمة البسبار

	Sipariş kodu Order code رسم الطلب	Amper A	Sayfa Page
<b>GNL</b>			
STANDART BOY ELEMAN P+N+PEc Standard Length Element P+N+PEc	GNL 2533	25	21
عنصر بطول قياسي	GNL 4033	40	21
STANDART BOY ELEMAN 3P+N+PEc Standard Length Element 3P+N+PEc	GNL 2535	25	21
عنصر بطول قياسي	GNL 4035	40	21
BESLEME ELEMANI (SOL) Feed unit (Left)	GNL EF41	25-40	22
وحدة التغذية (يسار)			
BESLEME ELEMANI (SAĞ) Feed unit (Right)	GNL EF42	25-40	22
وحدة التغذية (يمين)			
ORTADAN BESLEME ELEMANI Center Feed Unit	GNL EF43	25-40	23
وحدة التغذية (المركز)			
FLEXIBLE DÖNÜŞ ELEMANI Flexible Joint for Elbow	GNL 40FX	25-40	23
وصلات مرنة للأكواع			
AKIM ALMA FIŞİ Lighting Fixture Jack	GNL 10 L1-CE	10	24
جاك تركيبات الإنارة	GNL 10 L2-CE	10	24
	GNL 10 L3-CE	10	24
	GNL 10 L4-1-CE	10	24
SONLANDIRMA ELEMANI End Cap	GNL EC40 (GNL EF41)	24	24
غطاء الطرف	GNL EC41 (GNL EF42)	24	24
IPSS EK KAPAĞI IPSS Joint Cover	GNL ALC	24	24
غطاء وصلة IPSS			
ARMATÜR ASKI ELEMANI Lighting fixtures fixing hanger	GNL 55U1	25-32	25-32
علاقات تركيبات الإنارة	GNL 55U2	25-32	25-32
	GNL 55U3	25-32	25-32
<b>GL</b>			
STANDART BOY ELEMAN P+N+PEc Standard Length Element P+N+PEc	GLA 4033	40	45,00
عنصر بطول قياسي	GLA 6333	63	46,00
	GLC 6333	63	83,00
	GLC 10033	100	85,00
	GLC 16033	160	91,00
STANDART BOY ELEMAN 3P+N+PEc Standard Length Element 3P+N+PEc	GLA 4035	40	50,00
عنصر بطول قياسي	GLA 6335	63	51,00
	GLC 6335	63	113,00
	GLC 10035	100	115,00
	GLC 16035	160	126,00
BESLEME ELEMANI (SOL) Feed unit (Left)	GLA EF 41	40-63	75,00
وحدة التغذية (يسار)	GLC EF 41	63-160	100,00
BESLEME ELEMANI (SAĞ) Feed unit (Right)	GLA EF 42	40-63	107,00
وحدة التغذية (يمين)	GLC EF 42	63-160	134,00
ORTADAN BESLEME ELEMANI Center Feed Unit	GLA EF 43	40-63	135,00
وحدة التغذية (المركز)	GLC EF 43	63-160	180,00
FLEXIBLE DÖNÜŞ ELEMANI Flexible Joint for Elbow	GLA 63FX	40-63	250,00
وصلات مرنة للأكواع	GLC 160FX	63-160	465,00

### ARMATÜR ASKI ELEMANI

Lighting fixtures fixing hanger

علاقات تركيبات الإنارة

### BUSBAR ASKI ELEMANI

Busbar fixing hanger

علاقات تركيبات البسبار

### IPSS EK KAPAĞI IPSS Joint Cover

غطاء وصلة IPSS

### SONLANDIRMA ELEMANI End Cap

غطاء الطرف

### AKIM ALMA FIŞİ Lighting Fixture Jack

جاك تركيبات الإنارة

### CAM SİĞORTALI AKIM ALMA FIŞİ

Lighting Fixture Jack With Glass Fuse

تركيبات الإنارة مع مصهر زجاجي

### MCB TİPİ ÇIKIŞ KUTUSU

MCB Type Top-Off Box

نوع MCB صندوق إخراج

## GGD

### STANDART BOY ELEMAN 3P+N+%SOpe

Standard Length Element 3P+N+%SOpe

عنصر بطول قياسي

	GGD-A 201000	160	40
	GGD-A 202000	250	40
	GGD-A 203000	315	40
	GGD-A 204000	400	40
	GGD-C 201000	160	40
	GGD-C 202000	250	40
	GGD-C 203000	315	40
	GGD-C 204000	400	40
	GGD-C 205000	500	40
	GGD-C 206000	630	40
	GGD-C 208000	800	40
ARABOY ELEMAN 3P+N+%SOpe	GGD-A 201001	160	41
Non-Standard Length Element 3P+N+%SOpe	GGD-A 202001	250	41
عنصر الطول الغير قياسي	GGD-A 203001	315	41
	GGD-A 204001	400	41
	GGD-C 201001	160	41
	GGD-C 202001	250	41
	GGD-C 203001	315	41
	GGD-C 204001	400	41
	GGD-C 205001	500	41
	GGD-C 206001	630	41
	GGD-C 208001	800	41

### EK TAKIMI One-Bolt Joint Set

مجموع ربط ذات صمامولة واحدة

### 90°YATAY DÖNÜŞ ELEMANI (SAĞ)

90° Horizontal Elbow Element (Right)

عنصر كوع أفقي 90 درجة (يمين)

### 90°YATAY DÖNÜŞ ELEMANI (SOL)

90° Horizontal Elbow Element (Left)

عنصر كوع أفقي 90 درجة (يسار)

### 90°DİKEY DÖNÜŞ ELEMANI (SAĞ)

90° Vertical Elbow Element (Right)

عنصر كوع أفقي 90 درجة (يسار)

### 90°DİKEY DÖNÜŞ ELEMANI (SOL)

90° Vertical Elbow Element (Left)

عنصر كوع أفقي 90 درجة (يسار)



	Sipariş kodu Order code رمز الطلب	Anaım A A	Sayfa Page Page
T ELEMANI (SAĞ) T Element (Right)	GGD-A 200111	160-400	45
عنصر على شكل T (يمين)	GGD-C 200111	160-800	45
T ELEMANI (SOL) T Element (Left)	GGD-A 200109	160-400	45
عنصر على شكل T (يسار)	GGD-C 200109	160-800	45
MEKANİK DİLATASYON ELEMANI Mechanical Dilatation Element	GGD-A 204009	160-400	46
عنصر التوسيع الميكانيكي	GGD-C 204009	160-800	46
YATAY DİLATASYON ELEMANI Horizontal Expansion Element	GGD-A 204011	160-400	46
عنصر التمديد الأفقي	GGD-C 204011	160-800	46
DIKEY DİLATASYON ELEMANI Vertical Expansion Element	GGD-A 204010	160-400	47
عنصر التمديد الرأسي	GGD-C 204010	160-800	47
PANO ÜSTÜ MODÜLÜ (SAĞ) Switchboard Feed Unit (Right)	GGD-A 200030	160-400	48
لوحة مفاتيح وحدة التغذية (يمين)	GGD-C 200030	160-800	48
PANO ÜSTÜ MODÜLÜ (SOL) Switchboard Feed Unit (Left)	GGD-A 200032	160-400	48
لوحة مفاتيح وحدة التغذية (يسار)	GGD-C 200032	160-800	48
BESLEME ELEMANI (SAĞ) Feed Unit (Right)	GGD-A 200021	160-400	49
وحدة التغذية (يمين)	GGD-C 200021	160-800	49
BESLEME ELEMANI (SOL) Feed Unit (Left)	GGD-A 200020	160-400	49
وحدة التغذية (يسار)	GGD-C 200020	160-800	49
ORTADAN BESLEME ELEMANI Centre Feed Unit	GGD-A 200024	160-400	50
وحدة التغذية (المركز)	GGD-C 200024	160-800	50
90° YATAY OFSET ELEMANI (SAĞ) 90° Horizontal Offset Element (Right)	GGD-A 200124	160-400	51
عنصر التوازن الأفقي (يمين) 90 درجة	GGD-C 200124	160-800	51
90° YATAY OFSET ELEMANI (SOL) 90° Horizontal Offset Element (Left)	GGD-A 200123	160-400	51
عنصر التوازن الأفقي (يسار) 90 درجة	GGD-C 200123	160-800	51
90° DIKEY OFSET ELEMANI (SAĞ) 90° Vertical Offset Element (Right)	GGD-A 200126	160-400	52
عنصر التوازن الرأسي (يمين) 90 درجة	GGD-C 200126	160-800	52
90° DIKEY OFSET ELEMANI (SOL) 90° Vertical Offset Element (Left)	GGD-A 200125	160-400	52
عنصر التوازن الرأسي (يسار) 90 درجة	GGD-C 200125	160-800	52

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STANDART BOY ELEMAN 3P+N+%SOPe Standard Length Element 3P+N+%SOPe	GGD-A 205000	500	54
عنصر الطول القياسي	GGD-A 206000	630	54
	GGD-A 208000	800	54
	GGD-A 210000	1000	54
ARABOY ELEMAN 3P+N+%SOPe Non-Standard Length Element 3P+N+%SOPe	GGD-A 205001	500	55
عنصر الطول الغير قياسي	GGD-A 206001	630	55
	GGD-A 208001	800	55
	GGD-A 210001	1000	55
90°YATAY DÖNÜŞ ELEMANI (SAĞ) 90° Horizontal Elbow Element (Right)	GGD-A 200106	500-1000	57
عنصر كوع أفقي 90 درجة (يمين)			
90°YATAY DÖNÜŞ ELEMANI (SOL) 90° Horizontal Elbow Element (Left)	GGD-A 200105	500-1000	57
عنصر كوع أفقي 90 درجة (يسار)			
90° DIKEY DÖNÜŞ ELEMANI (SAĞ) 90° Vertical Elbow Element (Right)	GGD-A 200108	500-1000	58
عنصر كوع رأسي 90 درجة (يمين)			
90° DIKEY DÖNÜŞ ELEMANI (SOL) 90° Vertical Elbow Element (Left)	GGD-A 200107	500-1000	58
عنصر كوع رأسي 90 درجة (يسار)			
T ELEMANI (SAĞ) T Element (Right)	GGD-A 200112	500-1000	59
عنصر على شكل T (يمين)			
T ELEMANI (SOL) T Element (Left)	GGD-A 200110	500-1000	59
عنصر على شكل T (يسار)			
MEKANİK DİLATASYON ELEMANI Mechanical Dilatation Element	GGD-A 210009	500-1000	60
عنصر التوسيع الميكانيكي			
YATAY DİLATASYON ELEMANI Horizontal Expansion Element	GGD-A 210011	500-1000	60
عنصر التمديد الأفقي			
DIKEY DİLATASYON ELEMANI Vertical Expansion Element	GGD-A 210010	500-1000	61
عنصر التمديد الرأسي			
PANO ÜSTÜ MODÜLÜ (SAĞ) Switchboard Feed Unit (Right)	GGD-A 200031	500-1000	62
لوحة مفاتيح وحدة التغذية (يمين)			
PANO ÜSTÜ MODÜLÜ (SOL) Switchboard Feed Unit (Left)	GGD-A 200033	500-1000	62
لوحة مفاتيح وحدة التغذية (يسار)			
BESLEME ELEMANI (SAĞ) Feed Unit (Right)	GGD-A 200023	500-1000	63
وحدة التغذية (يمين)			
BESLEME ELEMANI (SOL) Feed Unit (Left)	GGD-A 200022	500-1000	63
وحدة التغذية (يسار)			

## BUSBAR KANAL SİSTEMLERİ



## Busbar Trunking Systems نظومة التوزيع

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ORTADAN BESLEME ELEMANI Centre Feed Unit وحدة التغذية (المركز)	GGD-A 200025	500-1000	64
90° YATAY OFSET ELEMANI (SAĞ) 90° Horizontal Offset Element (Right) عنصر التوازن الأفقي (يمين) 90 درجة	GGD-A 200128	500-1000	65
90° YATAY OFSET ELEMANI (SOL) 90° Horizontal Offset Element (Left) عنصر التوازن الأفقي (يسار) 90 درجة	GGD-A 200127	500-1000	65
90° DİKEY OFSET ELEMANI (SAĞ) 90° Vertical Offset Element (Right) عنصر التوازن الرأسي (يمين) 90 درجة	GGD-A 200130	500-1000	66
90° DİKEY OFSET ELEMANI (SOL) 90° Vertical Offset Element (Left) عنصر التوازن الرأسي (يسار) 90 درجة	GGD-A 200129	500-1000	66
REDÜKSİYON ELEMANI Reduction Element عنصر التخفيض	GGD-A RED01 GGD-A RED02	400-1000 400-1000	68
YANGIN BARIYERİ Fire Barrier حواجز لحريق	GGD-A 204006 GGD-A 210006 GGD-C 208006	160-400 500-1000 160-800	68
SONLANDIRMA ELEMANI End Cap غطاء الطرف	GGD 100028 GGD 100029	160-400 500-1000	69
GGD IP 55 YAPIŞKAN ELEMANI GGD IP 55 Sticky Plug Outlet Cover عنصر لاصق IP55	GGD 500002	160-1000	69
GGD IP 55 KAPAK GGD IP 55 Outlet Cover غطاء IP55	GGD 500003	160-1000	69
GGD ASKI ELEMANI GGD Fixing hanger علاقة تثبيت GGD	GGD 010001 GGD 020001 GGD 010004 GGD 010005	160-400 500-1000 160-400 500-1000	70
GGD DİKEY SİSTEMLER İÇİN ASKI ELEMANI GGD Hanger for vertical riser علاقة لرفع الراسي	GGD 010002 GGD 010003	160-400 500-1000	71
ÇIKIŞ KUTUSU NH TİP Top-off Box NH Type صندوق إخراج إصدار NH	GGD 400631 GGD 401251	25-80 25-125	72

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ÇIKIŞ KUTUSU SYK TİP Top-off Box SPB Type صندوق إخراج إصدار SPB	GGD 401160 GGD 402500 GGD 404000 GGD 406300	160 250 400 630	72
ÇIKIŞ KUTUSU MCB VERSİYONLU Top-off Box MCB Version صندوق إخراج إصدار MCB	GGD 400630 GGD 400632 GGD 401252	25-80 25-80 25-125	73
ÇIKIŞ KUTUSU MCCB VERSİYONLU Top-off Box MCCB Version صندوق إخراج إصدار MCCB	GGD 401253 GGD 401162 GGD 402502 GGD 404002 GGD 406302	25-125 160 250 400 630	73

## GS-SUPER COMPACT GS-Super Compact النظمة التوزيع المتكثفة المتكثفة

	Sipariş kodu Order code رمز الطلب	Anağıç A A	Sayfa Page
STANDART BOY ELEMAN (BOLT-ON) 3P+N+%SOpe Standard Length Element (Bolt-on) 3P+N+%SOpe عنصر الطول القياسي (مساملة الربط) 3P+N+%SOpe	GS-AB 050105 GS-AB 050106 GS-AB 050108 GS-AB 050110 GS-AB 050112 GS-AB 050116 GS-AB 050120 GS-AB 100226 GS-AB 100233 GS-AB 100241 GS-AB 150350 GS-CB 050105 GS-CB 050106 GS-CB 050108 GS-CB 050110 GS-CB 050112 GS-CB 050116 GS-CB 050120 GS-CB 050125 GS-CB 100233 GS-CB 100241 GS-CB 150350 GS-CB 150360	500 630 800 1000 1250 1600 2000 2500 3200 4000 5000 500 630 800 1000 1250 1600 2000 2500 3200 4000 5000 6000	80 80
STANDART BOY ELEMAN (PLUG-IN) 3P+N+%SOpe Standard Length Element (Plug-in) 3P+N+%SOpe عنصر الطول القياسي (مساملة الربط) 3P+N+%SOpe	GS-AP 050105 GS-AP 050106 GS-AP 050108 GS-AP 050110 GS-AP 050112 GS-AP 050116 GS-AP 050120 GS-AP 100226 GS-AP 100233 GS-AP 100241 GS-AP 150350 GS-CP 050105 GS-CP 050106 GS-CP 050108 GS-CP 050110 GS-CP 050112 GS-CP 050116 GS-CP 050120 GS-CP 050125 GS-CP 100233 GS-CP 100241 GS-CP 150350 GS-CP 150360	500 630 800 1000 1250 1600 2000 2500 3200 4000 5000 500 630 800 1000 1250 1600 2000 2500 3200 4000 5000 6000	81 81





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<b>ARABOY ELEMANI (BOLT-ON)</b>	GS-AB 0501051	500	82
3P+N+%50Pe	GS-AB 0501061	630	82
Non Standard Element (Bolt-on)	GS-AB 0501081	800	82
3P+N+%50Pe	GS-AB 0501101	1000	82
عنصر الطول الغير قياسي (صامولة الربط)	GS-AB 0501121	1250	82
3P+N+%50Pe	GS-AB 0501161	1600	82
	GS-AB 0501201	2000	82
	GS-AB 1002261	2500	82
	GS-AB 1002331	3200	82
	GS-AB 1002411	4000	82
	GS-AB 1503501	5000	82
	GS-CB 0501051	500	82
	GS-CB 0501061	630	82
	GS-CB 0501081	800	82
	GS-CB 0501101	1000	82
	GS-CB 0501121	1250	82
	GS-CB 0501161	1600	82
	GS-CB 0501201	2000	82
	GS-CB 0501251	2500	82
	GS-CB 1002331	3200	82
	GS-CB 1002411	4000	82
	GS-CB 1503501	5000	82
	GS-CB 1503601	6000	82
<b>ARABOY ELEMANI (PLUG-IN)</b>	GS-AP 0501051	500	83
3P+N+%50Pe	GS-AP 0501061	630	83
Non Standard Element (PLUG-IN)	GS-AP 0501081	800	83
3P+N+%50Pe	GS-AP 0501101	1000	83
عنصر الطول الغير قياسي (صامولة الربط)	GS-AP 0501121	1250	83
3P+N+%50Pe	GS-AP 0501161	1600	83
	GS-AP 0501201	2000	83
	GS-AP 1002261	2500	83
	GS-AP 1002331	3200	83
	GS-AP 1002411	4000	83
	GS-AP 1503501	5000	83
	GS-CP 0501051	500	83
	GS-CP 0501061	630	83
	GS-CP 0501081	800	83
	GS-CP 0501101	1000	83
	GS-CP 0501121	1250	83
	GS-CP 0501161	1600	83
	GS-CP 0501201	2000	83
	GS-CP 0501251	2500	83
	GS-CP 1002331	3200	83
	GS-CP 1002411	4000	83
	GS-CP 1503501	5000	83
	GS-CP 1503601	6000	83
<b>90° YATAY DÖNÜŞ ELEMANI (SAĞ)</b>	GS-A HE 05R	500	84
90° Horizontal Elbow Element (Right)	GS-A HE 06R	630	84
عنصر كوع أفقي 90 درجة (يمين)	GS-A HE 08R	800	84
	GS-A HE 10R	1000	84
	GS-A HE 12R	1250	84
	GS-A HE 16R	1600	84
	GS-A HE 20R	2000	84
	GS-A HE 26R	2500	84
	GS-A HE 33R	3200	84
	GS-A HE 41R	4000	84
	GS-A HE 50R	5000	84

**90° YATAY DÖNÜŞ ELEMANI (SOL)**  
90° Horizontal Elbow Element (Left)  
عنصر كوع أفقي 90 درجة (يسار)

GS-A HE 05L	500	85
GS-A HE 06L	630	85
GS-A HE 08L	800	85
GS-A HE 10L	1000	85
GS-A HE 12L	1250	85
GS-A HE 16L	1600	85
GS-A HE 20L	2000	85
GS-A HE 26L	2500	85
GS-A HE 33L	3200	85
GS-A HE 41L	4000	85
GS-A HE 50L	5000	85
GS-C HE 05R	500	84
GS-C HE 06R	630	84
GS-C HE 08R	800	84
GS-C HE 10R	1000	84
GS-C HE 12R	1250	84
GS-C HE 16R	1600	84
GS-C HE 20R	2000	84
GS-C HE 25R	2500	84
GS-C HE 33R	3200	84
GS-C HE 41R	4000	84
GS-C HE 50R	5000	84
GS-C HE 60R	6000	84

**90° DİKEY DÖNÜŞ ELEMANI (SAĞ)**  
90° Vertical Elbow Element (Right)  
عنصر كوع رأسي 90 درجة (يمين)

GS-A VE 05R	500	86
GS-A VE 06R	630	86
GS-A VE 08R	800	86
GS-A VE 10R	1000	86
GS-A VE 12R	1250	86
GS-A VE 16R	1600	86
GS-A VE 20R	2000	86
GS-A VE 26R	2500	86
GS-A VE 33R	3200	86
GS-A VE 41R	4000	86
GS-A VE 50R	5000	86
GS-C VE 05R	500	86
GS-C VE 06R	630	86
GS-C VE 08R	800	86
GS-C VE 10R	1000	86
GS-C VE 12R	1250	86
GS-C VE 16R	1600	86
GS-C VE 20R	2000	86
GS-C VE 25R	2500	86
GS-C VE 33R	3200	86
GS-C VE 41R	4000	86
GS-C VE 50R	5000	86
GS-C VE 60R	6000	86



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<b>90° DİKEY DÖNÜŞ ELEMANI (SOL)</b> <i>90° Vertical Elbow Element (Left)</i> عنصر كوع رأسي 90 درجة (يسار)	GS-A VE 05L	500	87	<b>90° DİKEY OFSET ELEMANI (SAĞ)</b> <i>90° Vertical Offset Element (Right)</i> عنصر التوازن الرأسي (يمين) 90 درجة	GS-C HZ 05L	500	89	
	GS-A VE 06L	630	87		GS-C HZ 06L	630	89	
	GS-A VE 08L	800	87		GS-C HZ 08L	800	89	
	GS-A VE 10L	1000	87		GS-C HZ 10L	1000	89	
	GS-A VE 12L	1250	87		GS-C HZ 12L	1250	89	
	GS-A VE 16L	1600	87		GS-C HZ 16L	1600	89	
	GS-A VE 20L	2000	87		GS-C HZ 20L	2000	89	
	GS-A VE 26L	2500	87		GS-C HZ 25L	2500	89	
	GS-A VE 33L	3200	87		GS-C HZ 33L	3200	89	
	GS-A VE 41L	4000	87		GS-C HZ 41L	4000	89	
	GS-A VE 50L	5000	87		GS-C HZ 50L	5000	89	
	GS-C VE 05L	500	87		GS-C HZ 60L	6000	89	
	GS-C VE 06L	630	87					
	GS-C VE 08L	800	87					
	GS-C VE 10L	1000	87					
	GS-C VE 12L	1250	87					
	GS-C VE 16L	1600	87					
	GS-C VE 20L	2000	87					
	GS-C VE 25L	2500	87					
	GS-C VE 33L	3200	87					
GS-C VE 41L	4000	87						
GS-C VE 50L	5000	87						
GS-C VE 60L	6000	87						
<b>90° YATAY OFSET ELEMANI (SAĞ)</b> <i>90° Horizontal Offset Element (Right)</i> عنصر التوازن الأفقي (يمين) 90 درجة	GS-A HZ 05R	500	88		GS-A VZ 05R	500	90	
	GS-A HZ 06R	630	88		GS-A VZ 06R	630	90	
	GS-A HZ 08R	800	88		GS-A VZ 08R	800	90	
	GS-A HZ 10R	1000	88		GS-A VZ 10R	1000	90	
	GS-A HZ 12R	1250	88		GS-A VZ 12R	1250	90	
	GS-A HZ 16R	1600	88		GS-A VZ 16R	1600	90	
	GS-A HZ 20R	2000	88		GS-A VZ 20R	2000	90	
	GS-A HZ 26R	2500	88		GS-A VZ 26R	2500	90	
	GS-A HZ 33R	3200	88		GS-A VZ 33R	3200	90	
	GS-A HZ 41R	4000	88		GS-A VZ 41R	4000	90	
	GS-A HZ 50R	5000	88		GS-A VZ 50R	5000	90	
	GS-C HZ 05R	500	88		GS-C VZ 60R	6000	90	
	GS-C HZ 06R	630	88					
	GS-C HZ 08R	800	88					
	GS-C HZ 10R	1000	88					
	GS-C HZ 12R	1250	88					
	GS-C HZ 16R	1600	88					
	GS-C HZ 20R	2000	88					
	GS-C HZ 25R	2500	88					
	GS-C HZ 33R	3200	88					
GS-C HZ 41R	4000	88						
GS-C HZ 50R	5000	88						
GS-C HZ 60R	6000	88						
<b>90° YATAY OFSET ELEMANI (SOL)</b> <i>90° Horizontal Offset Element (Left)</i> عنصر التوازن الأفقي (يسار) 90 درجة	GS-A HZ 05L	500	89		GS-A VZ 05L	500	91	
	GS-A HZ 06L	630	89		GS-A VZ 06L	630	91	
	GS-A HZ 08L	800	89		GS-A VZ 08L	800	91	
	GS-A HZ 10L	1000	89		GS-A VZ 10L	1000	91	
	GS-A HZ 12L	1250	89		GS-A VZ 12L	1250	91	
	GS-A HZ 16L	1600	89		GS-A VZ 16L	1600	91	
	GS-A HZ 20L	2000	89		GS-A VZ 20L	2000	91	
	GS-A HZ 26L	2500	89		GS-A VZ 26L	2500	91	
	GS-A HZ 33L	3200	89		GS-A VZ 33L	3200	91	
	GS-A HZ 41L	4000	89		GS-A VZ 41L	4000	91	
	GS-A HZ 50L	5000	89		GS-A VZ 50L	5000	91	
					GS-C VZ 05L	500	91	
					GS-C VZ 06L	630	91	
					GS-C VZ 08L	800	91	
					GS-C VZ 10L	1000	91	
					GS-C VZ 12L	1250	91	
					GS-C VZ 16L	1600	91	
					GS-C VZ 20L	2000	91	
					GS-C VZ 25L	2500	91	
					GS-C VZ 33L	3200	91	
				GS-C VZ 41L	4000	91		
				GS-C VZ 50L	5000	91		
				GS-C VZ 60L	6000	91		

## BUSBAR KANAL SİSTEMLERİ



## Busbar Trunking Systems انظمة البسبار

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<b>T ELEMANI (SAĞ)</b> <i>T Element (Right)</i> عنصر على شكل T (يمين)	GS-A TE 05R	500	92	
	GS-A TE 06R	630	92	
	GS-A TE 08R	800	92	
	GS-A TE 10R	1000	92	
	GS-A TE 12R	1250	92	
	GS-A TE 16R	1600	92	
	GS-A TE 20R	2000	92	
	GS-A TE 26R	2500	92	
	GS-A TE 33R	3200	92	
	GS-A TE 41R	4000	92	
	GS-A TE 50R	5000	92	
	GS-C TE 05R	500	92	
	GS-C TE 06R	630	92	
	GS-C TE 08R	800	92	
	GS-C TE 10R	1000	92	
	GS-C TE 12R	1250	92	
	GS-C TE 16R	1600	92	
	GS-C TE 20R	2000	92	
	GS-C TE 25R	2500	92	
	GS-C TE 33R	3200	92	
	GS-C TE 41R	4000	92	
	GS-C TE 50R	5000	92	
	GS-C TE 60R	6000	92	
	<b>T ELEMANI (SOL)</b> <i>T Element (Left)</i> عنصر على شكل T (يسار)	GS-A TE 05L	500	93
		GS-A TE 06L	630	93
		GS-A TE 08L	800	93
GS-A TE 10L		1000	93	
GS-A TE 12L		1250	93	
GS-A TE 16L		1600	93	
GS-A TE 20L		2000	93	
GS-A TE 26L		2500	93	
GS-A TE 33L		3200	93	
GS-A TE 41L		4000	93	
GS-A TE 50L		5000	93	
GS-C TE 05L		500	93	
GS-C TE 06L		630	93	
GS-C TE 08L		800	93	
GS-C TE 10L		1000	93	
GS-C TE 12L		1250	93	
GS-C TE 16L		1600	93	
GS-C TE 20L		2000	93	
GS-C TE 25L		2500	93	
GS-C TE 33L		3200	93	
GS-C TE 41L		4000	93	
GS-C TE 50L		5000	93	
GS-C TE 60L		6000	93	
<b>REDÜKSİYON ELEMANI</b> <i>Reduction Element</i> عنصر التخفيض		GS-A RED1008	1000/800	94
		GS-A RED1210	1250/1000	94
		GS-A RED1612	1600/1250	94
	GS-A RED2016	2000/1600	94	
	GS-A RED2620	2500/2000	94	
	GS-A RED3326	3200/2500	94	
	GS-A RED4133	4000/3200	94	
	GS-A RED5041	5000/4000	94	
	GS-C RED1210	1250/1000	94	
	GS-C RED1612	1600/1250	94	
	GS-C RED2016	2000/1600	94	

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<b>YANGIN BARIYERİ</b> <i>Fire Barrier</i> حواجز لحريق	GS-C RED2520	2500/2000	94
	GS-C RED3325	3200/2500	94
	GS-C RED4133	4000/3200	94
	GS-C RED5041	5000/4000	94
	GS-C RED6050	6000/5000	94
	GS-A FB 05	500	95
	GS-A FB 06	630	95
	GS-A FB 08	800	95
	GS-A FB 10	1000	95
	GS-A FB 12	1250	95
GS-A FB 16	1600	95	
GS-A FB 20	2000	95	
GS-A FB 26	2500	95	
GS-A FB 33	3200	95	
GS-A FB 41	4000	95	
GS-A FB 50	5000	95	
GS-C FB 05	500	95	
GS-C FB 06	630	95	
GS-C FB 08	800	95	
GS-C FB 10	1000	95	
GS-C FB 12	1250	95	
GS-C FB 16	1600	95	
GS-C FB 20	2000	95	
GS-C FB 25	2500	95	
GS-C FB 33	3200	95	
GS-C FB 41	4000	95	
GS-C FB 50	5000	95	
GS-C FB 60	6000	95	
<b>SONLANDIRMA ELEMANI</b> <i>End Cap</i> غطاء الطرف	GS-A EU 05	500	95
	GS-A EU 06	630	95
	GS-A EU 08	800	95
	GS-A EU 10	1000	95
	GS-A EU 12	1250	95
	GS-A EU 16	1600	95
	GS-A EU 20	2000	95
	GS-A EU 26	2500	95
	GS-A EU 33	3200	95
	GS-A EU 41	4000	95
	GS-A EU 50	5000	95
	GS-C EU 05	500	95
	GS-C EU 06	630	95
	GS-C EU 08	800	95
	GS-C EU 10	1000	95
	GS-C EU 12	1250	95
	GS-C EU 16	1600	95
	GS-C EU 20	2000	95
	GS-C EU 25	2500	95
GS-C EU 33	3200	95	
GS-C EU 41	4000	95	
GS-C EU 50	5000	95	
GS-C EU 60	6000	95	



	Sipariş kodu Order code رمز الطلب	Ampere A	Sayfa Page		Sipariş kodu Order code رمز الطلب	Ampere A	Sayfa Page	
<b>YATAY DİLATASYON ELEMANI (MEKANİK) Horizontal Expansion Element (Mechanical) عنصر التمديد الأفقي</b>	GS-A YMDE 05	500	96	<b>FAZ-NÖTR YÖN DEĞİŞTİRME ELEMANI Phase-Neutral Transposition Element أداة تغيير القطب – المحايد</b>	GS-C DDE 05	500	98	
	GS-A YMDE 06	630	96		GS-C DDE 06	630	98	
	GS-A YMDE 08	800	96		GS-C DDE 08	800	98	
	GS-A YMDE 10	1000	96		GS-C DDE 10	1000	98	
	GS-A YMDE 12	1250	96		GS-C DDE 12	1250	98	
	GS-A YMDE 16	1600	96		GS-C DDE 16	1600	98	
	GS-A YMDE 20	2000	96		GS-C DDE 20	2000	98	
	GS-A YMDE 26	2500	96		GS-C DDE 25	2500	98	
	GS-A YMDE 33	3200	96		GS-C DDE 33	3200	98	
	GS-A YMDE 41	4000	96		GS-C DDE 41	4000	98	
	GS-A YMDE 50	5000	96		GS-C DDE 50	5000	98	
	GS-C YMDE 05	500	96		GS-C DDE 60	6000	98	
	GS-C YMDE 06	630	96					
	GS-C YMDE 08	800	96					
	GS-C YMDE 10	1000	96					
	GS-C YMDE 12	1250	96					
	GS-C YMDE 16	1600	96					
	GS-C YMDE 20	2000	96					
	GS-C YMDE 25	2500	96					
	GS-C YMDE 33	3200	96					
	GS-C YMDE 41	4000	96					
	GS-C YMDE 50	5000	96					
	GS-C YMDE 60	6000	96					
	<b>YATAY DİLATASYON ELEMANI Horizontal Expansion Element عنصر التمديد الأفقي</b>	GS-A YDE 05	500		97	GS-A PDC 05	500	99
		GS-A YDE 06	630		97	GS-A PDC 06	630	99
		GS-A YDE 08	800		97	GS-A PDC 08	800	99
GS-A YDE 10		1000	97	GS-A PDC 10	1000	99		
GS-A YDE 12		1250	97	GS-A PDC 12	1250	99		
GS-A YDE 16		1600	97	GS-A PDC 16	1600	99		
GS-A YDE 20		2000	97	GS-A PDC 20	2000	99		
GS-A YDE 26		2500	97	GS-A PDC 26	2500	99		
GS-A YDE 33		3200	97	GS-A PDC 33	3200	99		
GS-A YDE 41		4000	97	GS-A PDC 41	4000	99		
GS-A YDE 50		5000	97	GS-A PDC 50	5000	99		
GS-C YDE 05		500	97	GS-C PDC 05	500	99		
GS-C YDE 06		630	97	GS-C PDC 06	630	99		
GS-C YDE 08		800	97	GS-C PDC 08	800	99		
GS-C YDE 10		1000	97	GS-C PDC 10	1000	99		
GS-C YDE 12		1250	97	GS-C PDC 12	1250	99		
GS-C YDE 16		1600	97	GS-C PDC 16	1600	99		
GS-C YDE 20		2000	97	GS-C PDC 20	2000	99		
GS-C YDE 25		2500	97	GS-C PDC 25	2500	99		
GS-C YDE 33		3200	97	GS-C PDC 33	3200	99		
GS-C YDE 41		4000	97	GS-C PDC 41	4000	99		
GS-C YDE 50		5000	97	GS-C PDC 50	5000	99		
GS-C YDE 60		6000	97	GS-C PDC 60	6000	99		
<b>DİKEY DİLATASYON ELEMANI Vertical Expansion Element عنصر التمديد الرأسي</b>		GS-A DDE 05	500	98	<b>KURUTIP TRAFO ÜSTÜ ELEMANI (SAĞ) Cast Resin Transformer Element (Right) عنصر محول كاست ريزين (يمين)</b>	GS-A PTS 05R	500	100
		GS-A DDE 06	630	98		GS-A PTS 06R	630	100
		GS-A DDE 08	800	98		GS-A PTS 08R	800	100
	GS-A DDE 10	1000	98	GS-A PTS 10R		1000	100	
	GS-A DDE 12	1250	98	GS-A PTS 12R		1250	100	
	GS-A DDE 16	1600	98	GS-A PTS 16R		1600	100	
	GS-A DDE 20	2000	98	GS-A PTS 20R		2000	100	
	GS-A DDE 26	2500	98	GS-A PTS 26R		2500	100	
	GS-A DDE 33	3200	98	GS-A PTS 33R		3200	100	
	GS-A DDE 41	4000	98	GS-A PTS 41R		4000	100	
	GS-A DDE 50	5000	98	GS-A PTS 50R		5000	100	
				GS-C PTS 05R		500	100	
				GS-C PTS 06R		630	100	
				GS-C PTS 08R		800	100	
				GS-C PTS 10R		1000	100	
				GS-C PTS 12R		1250	100	
				GS-C PTS 16R		1600	100	
				GS-C PTS 20R		2000	100	
				GS-C PTS 25R		2500	100	
				GS-C PTS 33R		3200	100	
				GS-C PTS 41R		4000	100	
				GS-C PTS 50R		5000	100	
				GS-C PTS 60R		6000	100	

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	Sipariş kodu Order code رمز الطلب	Ampere A	Sayfa Page		Sipariş kodu Order code رمز الطلب	Ampere A	Sayfa Page
<b>PANO - TRAF0 ÜSTÜ ELEMANI (SAĞ)</b> <i>Panel - Transformer Side Element (Right)</i> عنصر محول كاست ريزين (يمين)	GS-A TS 05R	500	102	<b>PANO - TRAF0 ÜSTÜ</b> <b>90° DIKEY DÖNÜŞ ELEMANI (SOL)</b> <i>Panel - Transformer Side</i> <i>90° Vertical Elbow Element (Left)</i> درجة عنصر كوع رأسي (يسار) لوحة جانبية + 90°	GS-C PVE 05RR	500	107
	GS-A TS 06R	630	102		GS-C PVE 06RR	630	107
	GS-A TS 08R	800	102		GS-C PVE 08RR	800	107
	GS-A TS 10R	1000	102		GS-C PVE 10RR	1000	107
	GS-A TS 12R	1250	102		GS-C PVE 12RR	1250	107
	GS-A TS 16R	1600	102		GS-C PVE 16RR	1600	107
	GS-A TS 20R	2000	102		GS-C PVE 20RR	2000	107
	GS-A TS 26R	2500	102		GS-C PVE 25RR	2500	107
	GS-A TS 33R	3200	102		GS-C PVE 33RR	3200	107
	GS-A TS 41R	4000	102		GS-C PVE 41RR	4000	107
	GS-A TS 50R	5000	102		GS-C PVE 50RR	5000	107
	GS-C TS 05R	500	102		GS-C PVE 60RR	6000	107
	GS-C TS 06R	630	102				
	GS-C TS 08R	800	102				
	GS-C TS 10R	1000	102				
	GS-C TS 12R	1250	102				
	GS-C TS 16R	1600	102				
	GS-C TS 20R	2000	102				
	GS-C TS 25R	2500	102				
	GS-C TS 33R	3200	102				
GS-C TS 41R	4000	102					
GS-C TS 50R	5000	102					
GS-C TS 60R	6000	102					
<b>PANO - TRAF0 ÜSTÜ ELEMANI (SOL)</b> <i>Panel - Transformer Side Element (Left)</i> عنصر محول كاست ريزين (يسار)	GS-A TS 05L	500	103	GS-A PVE 05RL	500	108	
	GS-A TS 06L	630	103	GS-A PVE 06RL	630	108	
	GS-A TS 08L	800	103	GS-A PVE 08RL	800	108	
	GS-A TS 10L	1000	103	GS-A PVE 10RL	1000	108	
	GS-A TS 12L	1250	103	GS-A PVE 12RL	1250	108	
	GS-A TS 16L	1600	103	GS-A PVE 16RL	1600	108	
	GS-A TS 20L	2000	103	GS-A PVE 20RL	2000	108	
	GS-A TS 26L	2500	103	GS-A PVE 26RL	2500	108	
	GS-A TS 33L	3200	103	GS-A PVE 33RL	3200	108	
	GS-A TS 41L	4000	103	GS-A PVE 41RL	4000	108	
	GS-A TS 50L	5000	103	GS-A PVE 50RL	5000	108	
	GS-C TS 05L	500	103	GS-C PVE 05RL	500	108	
	GS-C TS 06L	630	103	GS-C PVE 06RL	630	108	
	GS-C TS 08L	800	103	GS-C PVE 08RL	800	108	
	GS-C TS 10L	1000	103	GS-C PVE 10RL	1000	108	
	GS-C TS 12L	1250	103	GS-C PVE 12RL	1250	108	
	GS-C TS 16L	1600	103	GS-C PVE 16RL	1600	108	
	GS-C TS 20L	2000	103	GS-C PVE 20RL	2000	108	
	GS-C TS 25L	2500	103	GS-C PVE 25RL	2500	108	
	GS-C TS 33L	3200	103	GS-C PVE 33RL	3200	108	
GS-C TS 41L	4000	103	GS-C PVE 41RL	4000	108		
GS-C TS 50L	5000	103	GS-C PVE 50RL	5000	108		
GS-C TS 60L	6000	103	GS-C PVE 60RL	6000	108		
<b>PANO - TRAF0 ÜSTÜ</b> <b>90° DIKEY DÖNÜŞ ELEMANI (SAĞ)</b> <i>Panel - Transformer Side</i> <i>90° Vertical Elbow Element (Right)</i> درجة عنصر كوع رأسي (يمين) لوحة جانبية + 90°	GS-A PVE 05RR	500	107	<b>PANO - TRAF0 ÜSTÜ</b> <b>90° DIKEY DÖNÜŞ ELEMANI (SOL)</b> <i>Panel - Transformer Side</i> <i>90° Vertical Elbow Element (Left)</i> درجة عنصر كوع رأسي (يسار) لوحة جانبية + 90°	GS-A PVE 05LR	500	109
	GS-A PVE 06RR	630	107	GS-A PVE 06LR	630	109	
	GS-A PVE 08RR	800	107	GS-A PVE 08LR	800	109	
	GS-A PVE 10RR	1000	107	GS-A PVE 10LR	1000	109	
	GS-A PVE 12RR	1250	107	GS-A PVE 12LR	1250	109	
	GS-A PVE 16RR	1600	107	GS-A PVE 16LR	1600	109	
	GS-A PVE 20RR	2000	107	GS-A PVE 20LR	2000	109	
	GS-A PVE 26RR	2500	107	GS-A PVE 25LR	2500	109	
	GS-A PVE 33RR	3200	107	GS-A PVE 32LR	3200	109	
	GS-A PVE 41RR	4000	107	GS-A PVE 40LR	4000	109	
	GS-A PVE 50RR	5000	107	GS-A PVE 50LR	5000	109	
				GS-C PVE 05LR	500	109	
				GS-C PVE 06LR	630	109	
				GS-C PVE 08LR	800	109	
				GS-C PVE 10LR	1000	109	
				GS-C PVE 12LR	1250	109	
				GS-C PVE 16LR	1600	109	
				GS-C PVE 20LR	2000	109	
				GS-C PVE 25LR	2500	109	
				GS-C PVE 32LR	3200	109	
			GS-C PVE 40LR	4000	109		
			GS-C PVE 50LR	5000	109		
			GS-C PVE 60LR	6000	109		

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**PANO - TRAFÖ ÜSTÜ**  
**90° DİKEY DÖNÜŞ ELEMANI (SOL)**  
Panel - Transformer Side  
90° Vertical Elbow Element (Left)  
درجة عنصر كوع رأسي (يسار)  
لوحة جانبية + 90°

Sipariş kodu Order code رمز الطلب	Ampere A	Sayfa Page
GS-A PVE 05LL	500	110
GS-A PVE 06LL	630	110
GS-A PVE 08LL	800	110
GS-A PVE 10LL	1000	110
GS-A PVE 12LL	1250	110
GS-A PVE 16LL	1600	110
GS-A PVE 20LL	2000	110
GS-A PVE 26LL	2500	110
GS-A PVE 33LL	3200	110
GS-A PVE 41LL	4000	110
GS-A PVE 50LL	5000	110
GS-C PVE 05LL	500	110
GS-C PVE 06LL	630	110
GS-C PVE 08LL	800	110
GS-C PVE 10LL	1000	110
GS-C PVE 12LL	1250	110
GS-C PVE 16LL	1600	110
GS-C PVE 20LL	2000	110
GS-C PVE 25LL	2500	110
GS-C PVE 33LL	3200	110
GS-C PVE 41LL	4000	110
GS-C PVE 50LL	5000	110
GS-C PVE 60LL	6000	110

**PANO - TRAFÖ ÜSTÜ**  
**90° YATAY DÖNÜŞ ELEMANI (SAĞ)**  
Panel - Transformer Side  
90° Horizontal Elbow Element (Right)  
درجة عنصر كوع أفقي (يمين)  
لوحة جانبية + 90°

Sipariş kodu Order code رمز الطلب	Ampere A	Sayfa Page
GS-A PHE 05RR	500	111
GS-A PHE 06RR	630	111
GS-A PHE 08RR	800	111
GS-A PHE 10RR	1000	111
GS-A PHE 12RR	1250	111
GS-A PHE 16RR	1600	111
GS-A PHE 20RR	2000	111
GS-A PHE 26RR	2500	111
GS-A PHE 33RR	3200	111
GS-A PHE 41RR	4000	111
GS-A PHE 50RR	5000	111
GS-C PHE 05RR	500	111
GS-C PHE 06RR	630	111
GS-C PHE 08RR	800	111
GS-C PHE 10RR	1000	111
GS-C PHE 12RR	1250	111
GS-C PHE 16RR	1600	111
GS-C PHE 20RR	2000	111
GS-C PHE 25RR	2500	111
GS-C PHE 33RR	3200	111
GS-C PHE 41RR	4000	111
GS-C PHE 50RR	5000	111
GS-C PHE 60RR	6000	111

**PANO - TRAFÖ ÜSTÜ**  
**90° YATAY DÖNÜŞ ELEMANI (SOL)**  
Panel - Transformer Side  
90° Horizontal Elbow Element (Left)  
درجة عنصر كوع أفقي (يسار)  
لوحة جانبية + 90°

Sipariş kodu Order code رمز الطلب	Ampere A	Sayfa Page
GS-A PHE 05RL	500	112
GS-A PHE 06RL	630	112
GS-A PHE 08RL	800	112
GS-A PHE 10RL	1000	112
GS-A PHE 12RL	1250	112
GS-A PHE 16RL	1600	112
GS-A PHE 20RL	2000	112
GS-A PHE 26RL	2500	112
GS-A PHE 33RL	3200	112
GS-A PHE 41RL	4000	112
GS-A PHE 50RL	5000	112
GS-C PHE 05RL	500	112
GS-C PHE 06RL	630	112
GS-C PHE 08RL	800	112
GS-C PHE 10RL	1000	112
GS-C PHE 12RL	1250	112
GS-C PHE 16RL	1600	112
GS-C PHE 20RL	2000	112
GS-C PHE 25RL	2500	112
GS-C PHE 33RL	3200	112
GS-C PHE 41RL	4000	112
GS-C PHE 50RL	5000	112
GS-C PHE 60RL	6000	112

**PANO - TRAFÖ ÜSTÜ**  
**90° YATAY DÖNÜŞ ELEMANI (SAĞ)**  
Panel - Transformer Side  
90° Horizontal Elbow Element (Right)  
درجة عنصر كوع أفقي (يمين)  
لوحة جانبية + 90°

Sipariş kodu Order code رمز الطلب	Ampere A	Sayfa Page
GS-A PHE 05LR	500	113
GS-A PHE 06LR	630	113
GS-A PHE 08LR	800	113
GS-A PHE 10LR	1000	113
GS-A PHE 12LR	1250	113
GS-A PHE 16LR	1600	113
GS-A PHE 20LR	2000	113
GS-A PHE 26LR	2500	113
GS-A PHE 33LR	3200	113
GS-A PHE 41LR	4000	113
GS-A PHE 50LR	5000	113
GS-C PHE 05LR	500	113
GS-C PHE 06LR	630	113
GS-C PHE 08LR	800	113
GS-C PHE 10LR	1000	113
GS-C PHE 12LR	1250	113
GS-C PHE 16LR	1600	113
GS-C PHE 20LR	2000	113
GS-C PHE 25LR	2500	113
GS-C PHE 33LR	3200	113
GS-C PHE 41LR	4000	113
GS-C PHE 50LR	5000	113
GS-C PHE 60LR	6000	113

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	Sipariş kodu Order code رمز الطلب	Ampere A	Sayfa Page
<b>PANO - TRAFÖ ÜSTÜ</b>	GS-A PHE 05LL	500	114
<b>90° YATAY DÖNÜŞ ELEMANI (SOL)</b>	GS-A PHE 05LL	630	114
<b>Panel - Transformer Side</b>	GS-A PHE 08LL	800	114
<b>90° Horizontal Elbow Element (Left)</b>	GS-A PHE 10LL	1000	114
<b>درجة عنصر كوع أفقي (يسار)</b>	GS-A PHE 12LL	1250	114
<b>لوحة جانبية + 90</b>	GS-A PHE 16LL	1600	114
	GS-A PHE 20LL	2000	114
	GS-A PHE 26LL	2500	114
	GS-A PHE 33LL	3200	114
	GS-A PHE 41LL	4000	114
	GS-A PHE 50LL	5000	114
	GS-C PHE 05LL	500	114
	GS-C PHE 06LL	630	114
	GS-C PHE 08LL	800	114
	GS-C PHE 10LL	1000	114
	GS-C PHE 12LL	1250	114
	GS-C PHE 16LL	1600	114
	GS-C PHE 20LL	2000	114
	GS-C PHE 25LL	2500	114
	GS-C PHE 33LL	3200	114
	GS-C PHE 41LL	4000	114
	GS-C PHE 50LL	5000	114
	GS-C PHE 60LL	6000	114

### BESLEME ELEMANI (SAĞ) Feed Unit (Right) وحدة التغذية (يمين)

GS-A FE 05R	500	115
GS-A FE 06R	630	115
GS-A FE 08R	800	115
GS-A FE 10R	1000	115
GS-A FE 12R	1250	115
GS-A FE 16R	1600	115
GS-A FE 20R	2000	115
GS-A FE 26R	2500	115
GS-A FE 33R	3200	115
GS-A FE 41R	4000	115
GS-A FE 50R	5000	115
GS-C FE 05R	500	115
GS-C FE 06R	630	115
GS-C FE 08R	800	115
GS-C FE 10R	1000	115
GS-C FE 12R	1250	115
GS-C FE 16R	1600	115
GS-C FE 20R	2000	115
GS-C FE 25R	2500	115
GS-C FE 33R	3200	115
GS-C FE 41R	4000	115
GS-C FE 50R	5000	115
GS-C FE 60R	6000	115

### BESLEME ELEMANI (SOL) Feed Unit (Left) وحدة التغذية (يسار)

Sipariş kodu Order code رمز الطلب	Ampere A	Sayfa Page
GS-A FE 05L	500	116
GS-A FE 06L	630	116
GS-A FE 08L	800	116
GS-A FE 10L	1000	116
GS-A FE 12L	1250	116
GS-A FE 16L	1600	116
GS-A FE 20L	2000	116
GS-A FE 26L	2500	116
GS-A FE 33L	3200	116
GS-A FE 41L	4000	116
GS-A FE 50L	5000	116
GS-C FE 05L	500	116
GS-C FE 06L	630	116
GS-C FE 08L	800	116
GS-C FE 10L	1000	116
GS-C FE 12L	1250	116
GS-C FE 16L	1600	116
GS-C FE 20L	2000	116
GS-C FE 25L	2500	116
GS-C FE 33L	3200	116
GS-C FE 41L	4000	116
GS-C FE 50L	5000	116
GS-C FE 60L	6000	116

### ORTADAN BESLEME ELEMANI Centro Feed Unit وحدة التغذية (المركز)

GS-A CF 05	500	117
GS-A CF 06	630	117
GS-A CF 08	800	117
GS-A CF 10	1000	117
GS-A CF 12	1250	117
GS-A CF 16	1600	117
GS-A CF 20	2000	117
GS-A CF 26	2500	117
GS-A CF 33	3200	117
GS-A CF 41	4000	117
GS-A CF 50	5000	117
GS-C CF 05	500	117
GS-C CF 06	630	117
GS-C CF 08	800	117
GS-C CF 10	1000	117
GS-C CF 12	1250	117
GS-C CF 16	1600	117
GS-C CF 20	2000	117
GS-C CF 25	2500	117
GS-C CF 33	3200	117
GS-C CF 41	4000	117
GS-C CF 50	5000	117
GS-C CF 60	6000	117

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## Busbar Trunking Systems انظمة البسبار

	Sipariş kodu Order code رمز الطلب	Ampere A	Sayfa Page		Sipariş kodu Order code رمز الطلب	Ampere A	Sayfa Page	
ESNEK BARA <i>Flexible Bars</i> وحدة التغذية (يمين)	GS-A FLX 05	500	118	YATAY ASKI TAKIMI <i>Horizontal Supporting Hangers</i> علاقات دعم أفقي	GS-A SSH 05	500	121	
	GS-A FLX 06	630	118		GS-A SSH 06	630	121	
	GS-A FLX 08	800	118		GS-A SSH 08	800	121	
	GS-A FLX 10	1000	118		GS-A SSH 10	1000	121	
	GS-A FLX 12	1250	118		GS-A SSH 12	1250	121	
	GS-A FLX 16	1600	118		GS-A SSH 16	1600	121	
	GS-A FLX 20	2000	118		GS-A SSH 20	2000	121	
	GS-A FLX 24	2500	118		GS-A SSH 24	2500	121	
	GS-A FLX 33	3200	118		GS-A SSH 33	3200	121	
	GS-A FLX 41	4000	118		GS-A SSH 41	4000	121	
	GS-A FLX 50	5000	118		GS-A SSH 50	5000	121	
	GS-C FLX 05	500	118		GS-C SSH 05	500	121	
	GS-C FLX 06	630	118		GS-C SSH 06	630	121	
	GS-C FLX 08	800	118		GS-C SSH 08	800	121	
	GS-C FLX 10	1000	118		GS-C SSH 10	1000	121	
	GS-C FLX 12	1250	118		GS-C SSH 12	1250	121	
	GS-C FLX 16	1600	118		GS-C SSH 16	1600	121	
	GS-C FLX 20	2000	118		GS-C SSH 20	2000	121	
	GS-C FLX 25	2500	118		GS-C SSH 25	2500	121	
	GS-C FLX 33	3200	118		GS-C SSH 33	3200	121	
	GS-C FLX 41	4000	118		GS-C SSH 41	4000	121	
	GS-C FLX 50	5000	118		GS-C SSH 50	5000	121	
	GS-C FLX 60	6000	118		GS-C SSH 60	6000	121	
	PLUG-IN ÇIKIŞ KUTUSU <i>Plug-in Tap-off Box</i> مكبيس توصيل صندوق الإغلاق	P-SYK160	160		119	GS-A SSHV 05	500	121
		P-SYK250	250		119	GS-A SSHV 06	630	121
		P-SYK400	400		119	GS-A SSHV 08	800	121
		P-SYK630	630		119	GS-A SSHV 10	1000	121
						GS-A SSHV 12	1250	121
						GS-A SSHV 16	1600	121
	PLUG-IN ÇIKIŞ KUTUSU <i>Plug-in Tap-off Box</i> مكبيس توصيل صندوق الإغلاق	P-MCCB160	160		119	GS-A SSHV 20	2000	121
P-MCCB250		250	119	GS-A SSHV 26	2500	121		
P-MCCB400		400	119	GS-A SSHV 33	3200	121		
P-MCCB630		630	119	GS-A SSHV 41	4000	121		
				GS-A SSHV 50	5000	121		
				GS-C SSHV 05	500	121		
BOLT-ON ÇIKIŞ KUTUSU <i>Bolt-on Tap-off Box</i> صامولة صندوق الإغلاق	BX-SYK160	160	120	GS-C SSHV 06	630	121		
	BX-SYK250	250	120	GS-C SSHV 08	800	121		
	BX-SYK400	400	120	GS-C SSHV 10	1000	121		
	BX-SYK630	630	120	GS-C SSHV 12	1250	121		
	BX-SYK160	160	120	GS-C SSHV 16	1600	121		
	BX-SYK250	250	120	GS-C SSHV 20	2000	121		
	BX-SYK400	400	120	GS-C SSHV 25	2500	121		
	BX-SYK630	630	120	GS-C SSHV 33	3200	121		
				GS-C SSHV 41	4000	121		
				GS-C SSHV 50	5000	121		
BOLT-ON ÇIKIŞ KUTUSU <i>Bolt-on Tap-off Box</i> صامولة صندوق الإغلاق	BX-MCCB160	160	120	GS-C SSHV 60	6000	121		
	BX-MCCB250	250	120					
	BX-MCCB400	400	120					
	BX-MCCB630	630	120					
	BX-MCCB800	800	120					
	BX-MCCB1000	1000	120					
	BX-MCCB160	160	120					
	BX-MCCB250	250	120					
	BX-MCCB400	400	120					
	BX-MCCB630	630	120					
	BX-MCCB800	800	120					
	BX-MCCB1000	1000	120					



## BUSBAR KANAL SİSTEMLERİ



## Busbar Trunking Systems انظمة التوزيع

### DIKEY ASKI TAKIMI Vertical Supporting Hangers علاقات دعم رأسي

Sipariş koda Order code رمز الطلب	Amper A.	Sayfa Page
GS TK - C		122
GS TK - K		122
GS-A SSV 05	500	122
GS-A SSV 06	630	122
GS-A SSV 08	800	122
GS-A SSV 10	1000	122
GS-A SSV 12	1250	122
GS-A SSV 16	1600	122
GS-A SSV 20	2000	122
GS-A SSV 26	2500	122
GS-A SSV 33	3200	122
GS-A SSV 41	4000	122
GS-A SSV 50	5000	122
GS-C SSV 05	500	122
GS-C SSV 06	630	122
GS-C SSV 08	800	122
GS-C SSV 10	1000	122
GS-C SSV 12	1250	122
GS-C SSV 16	1600	122
GS-C SSV 20	2000	122
GS-C SSV 25	2500	122
GS-C SSV 33	3200	122
GS-C SSV 41	4000	122
GS-C SSV 50	5000	122
GS-C SSV 60	6000	122

### DIKEY ASKI TAKIMI Vertical Supporting Hangers علاقات دعم رأسي

GS-A SSV 05-1	500	123
GS-A SSV 06-1	630	123
GS-A SSV 08-1	800	123
GS-A SSV 10-1	1000	123
GS-A SSV 12-1	1250	123
GS-A SSV 16-1	1600	123
GS-A SSV 20-1	2000	123
GS-A SSV 26-1	2500	123
GS-A SSV 33-1	3200	123
GS-A SSV 41-1	4000	123
GS-A SSV 50-1	5000	123
GS-C SSV 05-1	500	123
GS-C SSV 06-1	630	123
GS-C SSV 08-1	800	123
GS-C SSV 10-1	1000	123
GS-C SSV 12-1	1250	123
GS-C SSV 16-1	1600	123
GS-C SSV 20-1	2000	123
GS-C SSV 25-1	2500	123
GS-C SSV 33-1	3200	123
GS-C SSV 41-1	4000	123
GS-C SSV 50-1	5000	123
GS-C SSV 60-1	6000	123

## GR

### STANDART BOY ELEMAN (BOLT-ON) Standard Length Element (Bolt-on) عنصر الطول القياسي (مستلمة الربط)

Sipariş koda Order code رمز الطلب	Amper A.	Sayfa Page
GR-A3 030105	500	133
GR-A3 030106	630	133
GR-A3 030108	800	133
GR-A3 030110	1000	133
GR-A3 030112	1250	133
GR-A3 030116	1600	133
GR-A3 030120	2000	133
GR-A3 040225	2500	133
GR-C3 030105	500	133
GR-C3 030106	630	133
GR-C3 030108	800	133
GR-C3 030110	1000	133
GR-C3 030112	1250	133
GR-C3 030116	1600	133
GR-C3 030120	2000	133
GR-C3 030125	2500	133
GR-C3 060232	3200	133
GR-A5 050105	500	133
GR-A5 050106	630	133
GR-A5 050108	800	133
GR-A5 050110	1000	133
GR-A5 050112	1250	133
GR-A5 050116	1600	133
GR-A5 050120	2000	133
GR-A5 100225	2500	133
GR-C5 050105	500	133
GR-C5 050106	630	133
GR-C5 050108	800	133
GR-C5 050110	1000	133
GR-C5 050112	1250	133
GR-C5 050116	1600	133
GR-C5 050120	2000	133
GR-C5 100125	2500	133
GR-C5 100232	3200	133
GR-A3 TS 05	500	134
GR-A3 TS 06	630	134
GR-A3 TS 08	800	134
GR-A3 TS 10	1000	134
GR-A3 TS 12	1250	134
GR-A3 TS 16	1600	134
GR-A3 TS 20	2000	134
GR-A3 TS 25	2500	134
GR-C3 TS 05	500	134
GR-C3 TS 06	630	134
GR-C3 TS 08	800	134
GR-C3 TS 10	1000	134
GR-C3 TS 12	1250	134
GR-C3 TS 16	1600	134
GR-C3 TS 20	2000	134
GR-C3 TS 25	2500	134
GR-C3 TS 32	3200	134

### PANO - TRAFO ÜSTÜ ELEMANI Panel - Transformer Side Element عنصر محول جانبي

## BUSBAR KANAL SİSTEMLERİ



Busbar Trunking Systems  
انظمة البسبار

### 90° DİKEY DÖNÜŞ ELEMANI 90° Vertical Elbow Element عنصر كوع رأسي 90 درجة

Sipariş kodu Order code رمز الطلب	Ampere A	Sayfa Page
GR-A5 TS 05	500	134
GR-A5 TS 06	630	134
GR-A5 TS 08	800	134
GR-A5 TS 10	1000	134
GR-A5 TS 12	1250	134
GR-A5 TS 16	1600	134
GR-A5 TS 20	2000	134
GR-A5 TS 25	2500	134
GR-CS TS 05	500	134
GR-CS TS 06	630	134
GR-CS TS 08	800	134
GR-CS TS 10	1000	134
GR-CS TS 12	1250	134
GR-CS TS 16	1600	134
GR-CS TS 20	2000	134
GR-CS TS 25	2500	134
GR-CS TS 32	3200	134
GR-A3 VE 05	500	135
GR-A3 VE 06	630	135
GR-A3 VE 08	800	135
GR-A3 VE 10	1000	135
GR-A3 VE 12	1250	135
GR-A3 VE 16	1600	135
GR-A3 VE 20	2000	135
GR-A3 VE 25	2500	135
GR-C3 VE 05	500	135
GR-C3 VE 06	630	135
GR-C3 VE 08	800	135
GR-C3 VE 10	1000	135
GR-C3 VE 12	1250	135
GR-C3 VE 16	1600	135
GR-C3 VE 20	2000	135
GR-C3 VE 25	2500	135
GR-C3 VE 32	3200	135
GR-A5 VE 05	500	135
GR-A5 VE 06	630	135
GR-A5 VE 08	800	135
GR-A5 VE 10	1000	135
GR-A5 VE 12	1250	135
GR-A5 VE 16	1600	135
GR-A5 VE 20	2000	135
GR-A5 VE 25	2500	135
GR-CS VE 05	500	135
GR-CS VE 06	630	135
GR-CS VE 08	800	135
GR-CS VE 10	1000	135
GR-CS VE 12	1250	135
GR-CS VE 16	1600	135
GR-CS VE 20	2000	135
GR-CS VE 25	2500	135
GR-CS VE 32	3200	135

### 90° YATAY DÖNÜŞ ELEMANI (SAĞ) 90° Horizontal Elbow Element (Right) عنصر كوع أفقي 90 درجة (يمين)

Sipariş kodu Order code رمز الطلب	Ampere A	Sayfa Page
GR-A3 HE 05	500	136
GR-A3 HE 06	630	136
GR-A3 HE 08	800	136
GR-A3 HE 10	1000	136
GR-A3 HE 12	1250	136
GR-A3 HE 16	1600	136
GR-A3 HE 20	2000	136
GR-A3 HE 25	2500	136
GR-C3 HE 05	500	136
GR-C3 HE 06	630	136
GR-C3 HE 08	800	136
GR-C3 HE 10	1000	136
GR-C3 HE 12	1250	136
GR-C3 HE 16	1600	136
GR-C3 HE 20	2000	136
GR-C3 HE 25	2500	136
GR-C3 HE 32	3200	136
GR-A5 HE 05	500	136
GR-A5 HE 06	630	136
GR-A5 HE 08	800	136
GR-A5 HE 10	1000	136
GR-A5 HE 12	1250	136
GR-A5 HE 16	1600	136
GR-A5 HE 20	2000	136
GR-A5 HE 25	2500	136
GR-CS HE 05	500	136
GR-CS HE 06	630	136
GR-CS HE 08	800	136
GR-CS HE 10	1000	136
GR-CS HE 12	1250	136
GR-CS HE 16	1600	136
GR-CS HE 20	2000	136
GR-CS HE 25	2500	136
GR-CS HE 32	3200	136





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