

TEMMUZ  
2025

# FİYAT LİSTESİ

## PAKO ve EMNİYET ŞALTERLERİ



sontheimer

Geliştirme ve tasarımdan montaja kadar tüm süreçlerimizi tek bir çatı altında, Schwabach Almanya'daki fabrikamızdan yönetmekteyiz.



# Esnek, Hızlı ve Çözüm Odaklı Yaklaşım

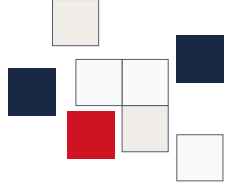
Sontheimer, 1946 yılında Almanya Schwabach, Nürnberg'de kurulmuştur. Pako şalter ve yük ayırıcı şalter üretiminde dünya standartlarında üretim yapan Sontheimer, Avrupa pazarında önde gelen üreticilerden biri olup, kendi markası dışında dünyaca ünlü bir çok marka adına ürün yaparak kalitesini ispat etmiştir. Ar-Ge, tasarım, plastik enjeksiyon ve montaj gibi tüm üretim süreçleri Sontheimer tarafından gerçekleştirilmektedir.

Birinci sınıf hammaddeler ile üretilen ürünler, farklı opsiyonlar ve kolay montaj seçenekleri ile fark yaratmaktadır. Ürün kalitesini aldığı UL belgesi dahil bir çok belge ile kanıtlamış olmasının yanı sıra standart üretimde kısa terminler ve özel taleplere hızlı çözümler ile müşteri memnuniyetini üst seviyede tutmaktadır.

# sontheimer

# SONTHEIMER ŞALTERLERİ NE- DEN BEN- ZER- SİZ?

Gerek sanayi, gerek altyapı uygulamaları, gerekse de makine imalatı, yenilenebilir enerji gibi çeşitli sektörlerde ve farklı uygulama alanlarında, yük ayırıcı ve pako şalterlerimiz; ana kumanda şalteri, tamir-bakım şalteri veya kutup değiştirici şalteri olarak kullanıma uygun olduğu gibi neredeyse her gereksinime göre özel olarak imal edilebilen pako şalterlerimiz ile her türlü ihtiyaca cevap verebiliyoruz.



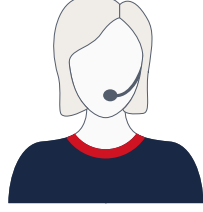
## Özelleştirilebilir ve Esnek

Şalterlerimizin Modüler yapısı sayesinde neredeyse her tür ihtiyacınıza rahatlıkla çözüm üretebiliyoruz. Eğer ihtiyaç duyduğunuz çözüm standart bir üründe mevcut değilse, ihtiyaç miktarı çok düşük adetlerde olsa dahi bunu sizinle birlikte sizin için geliştiriyoruz.



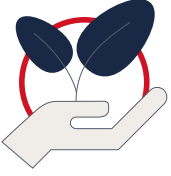
## Hızlı ve Her Zaman Ulaşılabilir

Tasarım ve üretim süreçlerimizin tamamını Almanya'daki fabrikamızda gerçekleştiriyoruz. Bu sayede, herhangi bir bağımlılık olmadan hızlı ve esnek bir şekilde çalışıyoruz. Özel şalterler için bile teslimatlarımızı en kısa sürede gerçekleştirebiliyoruz.



## Uzman Destek ve Hizmet

Ürünlerinizin seçiminden, yapılandırılmasına ve tedarikine kadar her aşamada yanınızdayız. İhtiyaçlarınıza uygun, kişiselleştirilmiş ve birinci sınıf bir hizmet sunuyoruz.



## Sürdürülebilir Üretim

Tüm süreçlerimizi tek bir merkezden yönetiyoruz. Bu yaklaşım, yerel ekonomiyi desteklerken çevresel ayak izimizi en aza indiriyor. Hedefimiz, tüm şalterlerimizin doğa ile uyumlu bir şekilde üretilmesini sağlamaktır.



## Yüksek Kalite ve Güvenlik

%100 ürün testlerimiz sayesinde uluslararası kabul görmüş güvenlik standartlarının ötesinde bir sertifikasyon sağlıyoruz. Böylece, şalter çözümlerinizi çok daha yüksek gerekliliklere uygun olarak üstün kalitede üretiyoruz.



## Üstün Fiyat/Performans Oranı

Verimli süreçlerimiz ve hızlı tedarik zincirimiz sayesinde son derece etkin ve maliyet tasarruflu bir yaklaşım sunmaktayız.

# sontheimer **PAKO** ŞALTERLERİ

## Esnek ve Güvenli



Pako şalterlerimiz, 10A. den 1.600A.e kadar güvenli ve çok yönlü çözümler sunar.

Çeşitli özelliklerde imal edilen şalterlerimiz ile, her türlü özel ihtiyaçlarınıza göre uyarlanmış hızlı ve güvenli çözümler ile hizmetinizdeyiz.

Çok çeşitli aksesuarların kullanımı sayesinde, geniş bir skalada farklı durumlara esnek bir şekilde uyarlanabilir.

### Özellikler

- Müşteriye özel uygulamalar için; hızlı çözümler sunar.
- Max. emniyet için, dokunmaya karşı korumalı kapalı terminal yuvaları.
- Yüksek dayanımlı kontak yapısı
- Dünyaca geçerli standartlara uygun: IEC, CE, UL, CSA, CCC, EAC, UKCA

**Sağlam, Çok Yönlü ve Verimli**

# sontheimer **EMNİYET** ŞALTERLERİ

Sontheimer Emniyet Şalterleri, 16 A. ile 315 A. nominal akım aralığı için dört farklı boyuttan oluşmaktadır.

Zorlu, karmaşık ortamlar için özel olarak tasarlanmıştır ve geniş aksesuar seçeneği sayesinde kullanıcı dostu çözümler sunar.

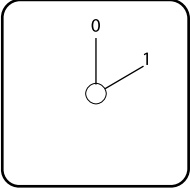
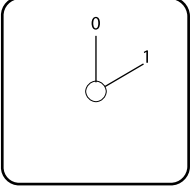
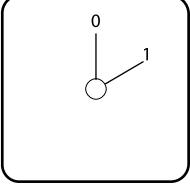
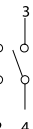
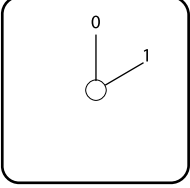
Pano kapağına montajlı, milli ve kutulu seçenekleriyle makine imalatı ve işletmenizdeki tamir bakım ihtiyaçlarınıza yüksek performanslı ürünler sunar.



## **Özellikler**

- Zorlu ortamlar için IP65 ve Nema 4X koruma sınıfı
- “OFF” konumunda mekanik kilitleme imkanı.
- UV dayanımlı
- Özel uygulamalar için EMV koruma çözümleri
- Nötr / Toprak klemensleri ve yardımcı kontak uygulamaları
- Dünyaca geçerli standartlara uygun:  
IEC, CE, UL, CSA, CCC, EAC, UKCA

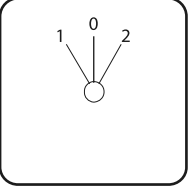
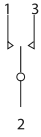
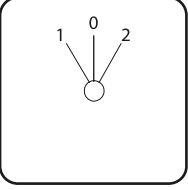
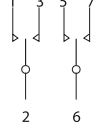
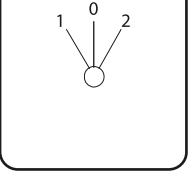
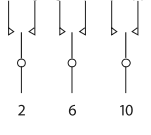
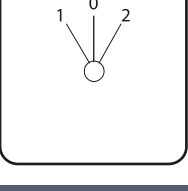
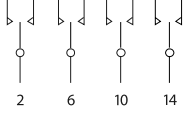
## A SERİSİ 0-1 AÇ-KAPA PAKO ŞALTERLER

| Ön Etiket                                                                           | Şema                                                                                                            | Sürekli Akım<br>I <sub>th</sub> (A) | AC3<br>400V<br>(kW) | Ön Etiket<br>Ölçüsü<br>(mm) | İletken<br>Kesiti<br>(mm <sup>2</sup> ) | Ürün Kodu         | Liste<br>Fiyatı<br>(TL/Ad.) |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------|-----------------------------|-----------------------------------------|-------------------|-----------------------------|
|    | <b>1 kutuplu 1x(0-1)</b><br>   | 10                                  | 2,2                 | 30x30                       | 1,5                                     | <b>A1/6E/NS</b>   | <b>360,00 ₺</b>             |
|                                                                                     |                                                                                                                 | 25                                  | 5,5                 | 48x48                       | 4                                       | <b>A1/8E/NS</b>   | <b>365,00 ₺</b>             |
|                                                                                     |                                                                                                                 | 32                                  | 9                   | 64x64                       | 6                                       | <b>A1/20E/NS</b>  | <b>660,00 ₺</b>             |
|                                                                                     |                                                                                                                 | 45                                  | 11                  | 64x64                       | 6                                       | <b>A1/32E/NS</b>  | <b>710,00 ₺</b>             |
|                                                                                     |                                                                                                                 | 63-80                               | 15                  | 64x64                       | 35                                      | <b>A1/40E/NS</b>  | <b>990,00 ₺</b>             |
|                                                                                     |                                                                                                                 | 125                                 | 27                  | 85x85                       | 70                                      | <b>A1/100E/NS</b> | <b>1.780,00 ₺</b>           |
|                                                                                     |                                                                                                                 | 160                                 | 37                  | 85x85                       | 70                                      | <b>A1/160E/NS</b> | <b>2.660,00 ₺</b>           |
|   | <b>2 kutuplu 2x(0-1)</b><br>  | 10                                  | 2,2                 | 30x30                       | 1,5                                     | <b>A2/6E/NS</b>   | <b>470,00 ₺</b>             |
|                                                                                     |                                                                                                                 | 25                                  | 5,5                 | 48x48                       | 4                                       | <b>A2/8E/NS</b>   | <b>480,00 ₺</b>             |
|                                                                                     |                                                                                                                 | 32                                  | 9                   | 64x64                       | 6                                       | <b>A2/20E/NS</b>  | <b>820,00 ₺</b>             |
|                                                                                     |                                                                                                                 | 45                                  | 11                  | 64x64                       | 6                                       | <b>A2/32E/NS</b>  | <b>930,00 ₺</b>             |
|                                                                                     |                                                                                                                 | 63-80                               | 15                  | 64x64                       | 35                                      | <b>A2/40E/NS</b>  | <b>1.210,00 ₺</b>           |
|                                                                                     |                                                                                                                 | 125                                 | 27                  | 85x85                       | 70                                      | <b>A2/100E/NS</b> | <b>2.280,00 ₺</b>           |
|                                                                                     |                                                                                                                 | 160                                 | 37                  | 85x85                       | 70                                      | <b>A2/160E/NS</b> | <b>3.340,00 ₺</b>           |
|  | <b>3 kutuplu 3x(0-1)</b><br> | 10                                  | 2,2                 | 30x30                       | 1,5                                     | <b>A3/6E/NS</b>   | <b>600,00 ₺</b>             |
|                                                                                     |                                                                                                                 | 25                                  | 5,5                 | 48x48                       | 4                                       | <b>A3/8E/NS</b>   | <b>615,00 ₺</b>             |
|                                                                                     |                                                                                                                 | 32                                  | 9                   | 64x64                       | 6                                       | <b>A3/20E/NS</b>  | <b>1.060,00 ₺</b>           |
|                                                                                     |                                                                                                                 | 45                                  | 11                  | 64x64                       | 6                                       | <b>A3/32E/NS</b>  | <b>1.210,00 ₺</b>           |
|                                                                                     |                                                                                                                 | 63-80                               | 15                  | 64x64                       | 35                                      | <b>A3/40E/NS</b>  | <b>1.710,00 ₺</b>           |
|                                                                                     |                                                                                                                 | 125                                 | 27                  | 85x85                       | 70                                      | <b>A3/100E/NS</b> | <b>2.950,00 ₺</b>           |
|                                                                                     |                                                                                                                 | 160                                 | 37                  | 85x85                       | 70                                      | <b>A3/160E/NS</b> | <b>4.770,00 ₺</b>           |
|  | <b>4 kutuplu 3x(0-1)</b><br> | 10                                  | 2,2                 | 30x30                       | 1,5                                     | <b>A4/6E/NS</b>   | <b>710,00 ₺</b>             |
|                                                                                     |                                                                                                                 | 25                                  | 5,5                 | 48x48                       | 4                                       | <b>A4/8E/NS</b>   | <b>715,00 ₺</b>             |
|                                                                                     |                                                                                                                 | 32                                  | 9                   | 64x64                       | 6                                       | <b>A4/20E/NS</b>  | <b>1.230,00 ₺</b>           |
|                                                                                     |                                                                                                                 | 45                                  | 11                  | 64x64                       | 6                                       | <b>A4/32E/NS</b>  | <b>1.470,00 ₺</b>           |
|                                                                                     |                                                                                                                 | 63-80                               | 15                  | 64x64                       | 35                                      | <b>A4/40E/NS</b>  | <b>2.050,00 ₺</b>           |
|                                                                                     |                                                                                                                 | 125                                 | 27                  | 85x85                       | 70                                      | <b>A4/100E/NS</b> | <b>3.530,00 ₺</b>           |
|                                                                                     |                                                                                                                 | 160                                 | 37                  | 85x85                       | 70                                      | <b>A4/160E/NS</b> | <b>5.580,00 ₺</b>           |

## U SERİSİ 1-0-2 KUTUP DEĞİŞTİRİCİ PAKO ŞALTERLER

| Ön Etiket | Şema | Sürekli Akım $I_{th}$ (A) | AC3 400V (kW) | Ön Etiket Ölçüsü (mm) | İletken Kesiti (mm <sup>2</sup> ) | Ürün Kodu  | Liste Fiyatı (TL/Ad.) |
|-----------|------|---------------------------|---------------|-----------------------|-----------------------------------|------------|-----------------------|
|           |      | 10                        | 2,2           | 30x30                 | 1,5                               | U1/6E/NS   | 465,00 ₺              |
|           |      | 25                        | 5,5           | 48x48                 | 4                                 | U1/8E/NS   | 470,00 ₺              |
|           |      | 32                        | 9             | 64x64                 | 6                                 | U1/20E/NS  | 830,00 ₺              |
|           |      | 45                        | 11            | 64x64                 | 6                                 | U1/32E/NS  | 930,00 ₺              |
|           |      | 63-80                     | 15            | 64x64                 | 35                                | U1/40E/NS  | 1.240,00 ₺            |
|           |      | 125                       | 27            | 85x85                 | 70                                | U1/100E/NS | 2.280,00 ₺            |
|           |      | 160                       | 37            | 85x85                 | 70                                | U1/160E/NS | 3.470,00 ₺            |
|           |      | 10                        | 2,2           | 30x30                 | 1,5                               | U2/6E/NS   | 700,00 ₺              |
|           |      | 25                        | 5,5           | 48x48                 | 4                                 | U2/8E/NS   | 710,00 ₺              |
|           |      | 32                        | 9             | 64x64                 | 6                                 | U2/20E/NS  | 1.230,00 ₺            |
|           |      | 45                        | 11            | 64x64                 | 6                                 | U2/32E/NS  | 1.420,00 ₺            |
|           |      | 63-80                     | 15            | 64x64                 | 35                                | U2/40E/NS  | 2.030,00 ₺            |
|           |      | 125                       | 27            | 85x85                 | 70                                | U2/100E/NS | 3.590,00 ₺            |
|           |      | 160                       | 37            | 85x85                 | 70                                | U2/160E/NS | 5.510,00 ₺            |
|           |      | 10                        | 2,2           | 30x30                 | 1,5                               | U3/6E/NS   | 900,00 ₺              |
|           |      | 25                        | 5,5           | 48x48                 | 4                                 | U3/8E/NS   | 910,00 ₺              |
|           |      | 32                        | 9             | 64x64                 | 6                                 | U3/20E/NS  | 1.590,00 ₺            |
|           |      | 45                        | 11            | 64x64                 | 6                                 | U3/32E/NS  | 1.930,00 ₺            |
|           |      | 63-80                     | 15            | 64x64                 | 35                                | U3/40E/NS  | 2.800,00 ₺            |
|           |      | 125                       | 27            | 85x85                 | 70                                | U3/100E/NS | 4.710,00 ₺            |
|           |      | 160                       | 37            | 85x85                 | 70                                | U3/160E/NS | 7.420,00 ₺            |
|           |      | 10                        | 2,2           | 30x30                 | 1,5                               | U4/6E/NS   | 1.155,00 ₺            |
|           |      | 25                        | 5,5           | 48x48                 | 4                                 | U4/8E/NS   | 1.160,00 ₺            |
|           |      | 32                        | 9             | 64x64                 | 6                                 | U4/20E/NS  | 1.970,00 ₺            |
|           |      | 45                        | 11            | 64x64                 | 6                                 | U4/32E/NS  | 2.290,00 ₺            |
|           |      | 63-80                     | 15            | 64x64                 | 35                                | U4/40E/NS  | 3.650,00 ₺            |
|           |      | 125                       | 27            | 85x85                 | 70                                | U4/100E/NS | 5.995,00 ₺            |
|           |      | 160                       | 37            | 85x85                 | 70                                | U4/160E/NS | 9.670,00 ₺            |

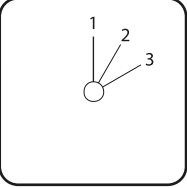
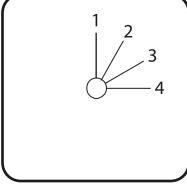
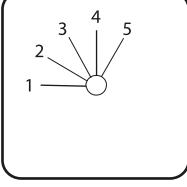
## URR SERİSİ 1-0-2 YAY DÖNÜŞLÜ KUTUP DEĞİŞTİRİCİ PAKO ŞALTERLER

| Ön Etiket                                                                           | Şema                                                                                                                           | Sürekli Akım I <sub>th</sub> (A) | AC3 400V (kW) | Ön Etiket Ölçüsü (mm) | İletken Kesiti (mm <sup>2</sup> ) | Ürün Kodu    | Liste Fiyatı (TL/Ad.) |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------|-----------------------|-----------------------------------|--------------|-----------------------|
|    | <b>1 kutuplu 1x (1-0-2) Yay Dönüşlü</b><br>   | 10                               | 2,2           | 30x30                 | 1,5                               | URR1/6E/NS   | 480,00 ₺              |
|                                                                                     |                                                                                                                                | 25                               | 5,5           | 48x48                 | 4                                 | URR1/8E/NS   | 490,00 ₺              |
|                                                                                     |                                                                                                                                | 32                               | 9             | 64x64                 | 6                                 | URR1/20E/NS  | 860,00 ₺              |
|                                                                                     |                                                                                                                                | 45                               | 11            | 64x64                 | 6                                 | URR1/32E/NS  | 960,00 ₺              |
|                                                                                     |                                                                                                                                | 63-80                            | 15            | 64x64                 | 35                                | URR1/40E/NS  | 1.240,00 ₺            |
|                                                                                     |                                                                                                                                | 125                              | 27            | 85x85                 | 70                                | URR1/100E/NS | 2.350,00 ₺            |
|                                                                                     |                                                                                                                                | 160                              | 37            | 85x85                 | 70                                | URR1/160E/NS | 3.580,00 ₺            |
|   | <b>2 kutuplu 2x (1-0-2) Yay Dönüşlü</b><br>  | 10                               | 2,2           | 30x30                 | 1,5                               | URR2/6E/NS   | 720,00 ₺              |
|                                                                                     |                                                                                                                                | 25                               | 5,5           | 48x48                 | 4                                 | URR2/8E/NS   | 725,00 ₺              |
|                                                                                     |                                                                                                                                | 32                               | 9             | 64x64                 | 6                                 | URR2/20E/NS  | 1.220,00 ₺            |
|                                                                                     |                                                                                                                                | 45                               | 11            | 64x64                 | 6                                 | URR2/32E/NS  | 1.420,00 ₺            |
|                                                                                     |                                                                                                                                | 63-80                            | 15            | 64x64                 | 35                                | URR2/40E/NS  | 2.050,00 ₺            |
|                                                                                     |                                                                                                                                | 125                              | 27            | 85x85                 | 70                                | URR2/100E/NS | 3.650,00 ₺            |
|                                                                                     |                                                                                                                                | 160                              | 37            | 85x85                 | 70                                | URR2/160E/NS | 5.950,00 ₺            |
|  | <b>3 kutuplu 3x (1-0-2) Yay Dönüşlü</b><br> | 10                               | 2,2           | 30x30                 | 1,5                               | URR3/6E/NS   | 935,00 ₺              |
|                                                                                     |                                                                                                                                | 25                               | 5,5           | 48x48                 | 4                                 | URR3/8E/NS   | 940,00 ₺              |
|                                                                                     |                                                                                                                                | 32                               | 9             | 64x64                 | 6                                 | URR3/20E/NS  | 1.670,00 ₺            |
|                                                                                     |                                                                                                                                | 45                               | 11            | 64x64                 | 6                                 | URR3/32E/NS  | 1.900,00 ₺            |
|                                                                                     |                                                                                                                                | 63-80                            | 15            | 64x64                 | 35                                | URR3/40E/NS  | 2.800,00 ₺            |
|                                                                                     |                                                                                                                                | 125                              | 27            | 85x85                 | 70                                | URR3/100E/NS | 4.830,00 ₺            |
|                                                                                     |                                                                                                                                | 160                              | 37            | 85x85                 | 70                                | URR3/160E/NS | 7.870,00 ₺            |
|  | <b>4 kutuplu 4x (1-0-2) Yay Dönüşlü</b><br> | 10                               | 2,2           | 30x30                 | 1,5                               | URR4/6E/NS   | 1.190,00 ₺            |
|                                                                                     |                                                                                                                                | 25                               | 5,5           | 48x48                 | 4                                 | URR4/8E/NS   | 1.200,00 ₺            |
|                                                                                     |                                                                                                                                | 32                               | 9             | 64x64                 | 6                                 | URR4/20E/NS  | 2.040,00 ₺            |
|                                                                                     |                                                                                                                                | 45                               | 11            | 64x64                 | 6                                 | URR4/32E/NS  | 2.330,00 ₺            |
|                                                                                     |                                                                                                                                | 63-80                            | 15            | 64x64                 | 35                                | URR4/40E/NS  | 3.590,00 ₺            |
|                                                                                     |                                                                                                                                | 125                              | 27            | 85x85                 | 70                                | URR4/100E/NS | 6.100,00 ₺            |

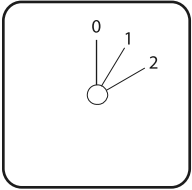
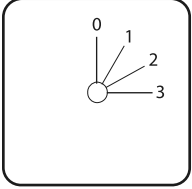
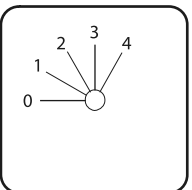
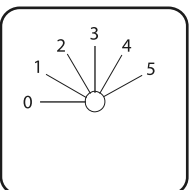
## WS SERİSİ 1-2 KUTUP DEĞİŞTİRİCİ PAKO ŞALTERLER

| Ön Etiket | Şema                          | Sürekli Akım<br>I <sub>th</sub> (A) | AC3<br>400V<br>(kW) | Ön Etiket<br>Ölçüsü<br>(mm) | İletken<br>Kesiti<br>(mm <sup>2</sup> ) | Ürün Kodu          | Liste<br>Fiyatı<br>(TL/Ad.) |
|-----------|-------------------------------|-------------------------------------|---------------------|-----------------------------|-----------------------------------------|--------------------|-----------------------------|
|           | <b>1 kutuplu 1x (1-2)</b><br> | 10                                  | 2,2                 | 30x30                       | 1,5                                     | <b>WS1/6E/NS</b>   | <b>480,00 ₺</b>             |
|           |                               | 25                                  | 5,5                 | 48x48                       | 4                                       | <b>WS1/8E/NS</b>   | <b>490,00 ₺</b>             |
|           |                               | 32                                  | 9                   | 64x64                       | 6                                       | <b>WS1/20E/NS</b>  | <b>860,00 ₺</b>             |
|           |                               | 45                                  | 11                  | 64x64                       | 6                                       | <b>WS1/32E/NS</b>  | <b>960,00 ₺</b>             |
|           |                               | 63-80                               | 15                  | 64x64                       | 35                                      | <b>WS1/40E/NS</b>  | <b>1.240,00 ₺</b>           |
|           |                               | 125                                 | 27                  | 85x85                       | 70                                      | <b>WS1/100E/NS</b> | <b>2.350,00 ₺</b>           |
|           |                               | 160                                 | 37                  | 85x85                       | 70                                      | <b>WS1/160E/NS</b> | <b>3.580,00 ₺</b>           |
|           | <b>2 kutuplu 2x (1-2)</b><br> | 10                                  | 2,2                 | 30x30                       | 1,5                                     | <b>WS2/6E/NS</b>   | <b>720,00 ₺</b>             |
|           |                               | 25                                  | 5,5                 | 48x48                       | 4                                       | <b>WS2/8E/NS</b>   | <b>725,00 ₺</b>             |
|           |                               | 32                                  | 9                   | 64x64                       | 6                                       | <b>WS2/20E/NS</b>  | <b>1.220,00 ₺</b>           |
|           |                               | 45                                  | 11                  | 64x64                       | 6                                       | <b>WS2/32E/NS</b>  | <b>1.420,00 ₺</b>           |
|           |                               | 63-80                               | 15                  | 64x64                       | 35                                      | <b>WS2/40E/NS</b>  | <b>2.050,00 ₺</b>           |
|           |                               | 125                                 | 27                  | 85x85                       | 70                                      | <b>WS2/100E/NS</b> | <b>3.650,00 ₺</b>           |
|           |                               | 160                                 | 37                  | 85x85                       | 70                                      | <b>WS2/160E/NS</b> | <b>5.950,00 ₺</b>           |
|           | <b>3 kutuplu 3x (1-2)</b><br> | 10                                  | 2,2                 | 30x30                       | 1,5                                     | <b>WS3/6E/NS</b>   | <b>935,00 ₺</b>             |
|           |                               | 25                                  | 5,5                 | 48x48                       | 4                                       | <b>WS3/8E/NS</b>   | <b>940,00 ₺</b>             |
|           |                               | 32                                  | 9                   | 64x64                       | 6                                       | <b>WS3/20E/NS</b>  | <b>1.670,00 ₺</b>           |
|           |                               | 45                                  | 11                  | 64x64                       | 6                                       | <b>WS3/32E/NS</b>  | <b>1.900,00 ₺</b>           |
|           |                               | 63-80                               | 15                  | 64x64                       | 35                                      | <b>WS3/40E/NS</b>  | <b>2.800,00 ₺</b>           |
|           |                               | 125                                 | 27                  | 85x85                       | 70                                      | <b>WS3/100E/NS</b> | <b>4.830,00 ₺</b>           |
|           |                               | 160                                 | 37                  | 85x85                       | 70                                      | <b>WS3/160E/NS</b> | <b>7.870,00 ₺</b>           |
|           | <b>4 kutuplu 3x (1-2)</b><br> | 10                                  | 2,2                 | 30x30                       | 1,5                                     | <b>WS4/6E/NS</b>   | <b>1.190,00 ₺</b>           |
|           |                               | 25                                  | 5,5                 | 48x48                       | 4                                       | <b>WS4/8E/NS</b>   | <b>1.200,00 ₺</b>           |
|           |                               | 32                                  | 9                   | 64x64                       | 6                                       | <b>WS4/20E/NS</b>  | <b>2.040,00 ₺</b>           |
|           |                               | 45                                  | 11                  | 64x64                       | 6                                       | <b>WS4/32E/NS</b>  | <b>2.330,00 ₺</b>           |
|           |                               | 63-80                               | 15                  | 64x64                       | 35                                      | <b>WS4/40E/NS</b>  | <b>3.590,00 ₺</b>           |
|           |                               | 125                                 | 27                  | 85x85                       | 70                                      | <b>WS4/100E/NS</b> | <b>6.100,00 ₺</b>           |

## ST SERİSİ KADEMELİ PAKO ŞALTERLER - BİR FAZLI, SIFIRSIZ

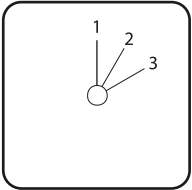
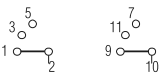
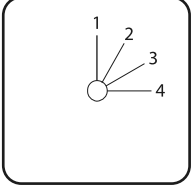
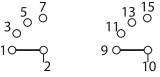
| Ön Etiket                                                                           | Şema                                                                                                                       | Sürekli Akım<br>I <sub>th</sub> (A) | AC3<br>400V<br>(kW) | Ön Etiket<br>Ölçüsü<br>(mm) | İletken<br>Kesiti<br>(mm <sup>2</sup> ) | Ürün Kodu    | Liste<br>Fiyatı<br>(TL/Ad.) |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------|-----------------------------|-----------------------------------------|--------------|-----------------------------|
|    | <b>3 Kademeli<br/>1x(1-2-3)</b><br>       | 10                                  | 2,2                 | 30x30                       | 1,5                                     | ST31/6E/NS   | 665,00 ₺                    |
|                                                                                     |                                                                                                                            | 25                                  | 5,5                 | 48x48                       | 4                                       | ST31/8E/NS   | 670,00 ₺                    |
|                                                                                     |                                                                                                                            | 32                                  | 9                   | 64x64                       | 6                                       | ST31/20E/NS  | 1.130,00 ₺                  |
|                                                                                     |                                                                                                                            | 45                                  | 11                  | 64x64                       | 6                                       | ST31/32E/NS  | 1.230,00 ₺                  |
|                                                                                     |                                                                                                                            | 63-80                               | 15                  | 64x64                       | 35                                      | ST31/40E/NS  | 1.850,00 ₺                  |
|                                                                                     |                                                                                                                            | 125                                 | 27                  | 85x85                       | 70                                      | ST31/100E/NS | 3.340,00 ₺                  |
|   | <b>4 Kademeli<br/>1x(1-2-3-4)</b><br>    | 10                                  | 2,2                 | 30x30                       | 1,5                                     | ST41/6E/NS   | 735,00 ₺                    |
|                                                                                     |                                                                                                                            | 25                                  | 5,5                 | 48x48                       | 4                                       | ST41/8E/NS   | 740,00 ₺                    |
|                                                                                     |                                                                                                                            | 32                                  | 9                   | 64x64                       | 6                                       | ST41/20E/NS  | 1.230,00 ₺                  |
|                                                                                     |                                                                                                                            | 45                                  | 11                  | 64x64                       | 6                                       | ST41/32E/NS  | 1.460,00 ₺                  |
|                                                                                     |                                                                                                                            | 63-80                               | 15                  | 64x64                       | 35                                      | ST41/40E/NS  | 2.150,00 ₺                  |
|                                                                                     |                                                                                                                            | 125                                 | 27                  | 85x85                       | 70                                      | ST41/100E/NS | 3.950,00 ₺                  |
|  | <b>5 Kademeli<br/>1x(1-2-3-4-5)</b><br> | 10                                  | 2,2                 | 30x30                       | 1,5                                     | ST51/6E/NS   | 900,00 ₺                    |
|                                                                                     |                                                                                                                            | 25                                  | 5,5                 | 48x48                       | 4                                       | ST51/8E/NS   | 910,00 ₺                    |
|                                                                                     |                                                                                                                            | 32                                  | 9                   | 64x64                       | 6                                       | ST51/20E/NS  | 1.590,00 ₺                  |
|                                                                                     |                                                                                                                            | 45                                  | 11                  | 64x64                       | 6                                       | ST51/32E/NS  | 1.720,00 ₺                  |
|                                                                                     |                                                                                                                            | 63-80                               | 15                  | 64x64                       | 35                                      | ST51/40E/NS  | 2.600,00 ₺                  |
|                                                                                     |                                                                                                                            | 125                                 | 27                  | 85x85                       | 70                                      | ST51/100E/NS | 4.770,00 ₺                  |

## ST SERİSİ KADEMELİ PAKO ŞALTERLER - BİR FAZLI, SIFIRLI

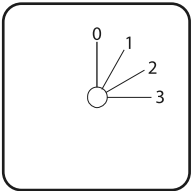
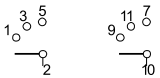
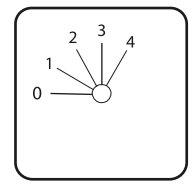
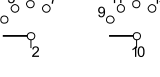
| Ön Etiket                                                                           | Şema                                                                                                                               | Sürekli Akım<br>I <sub>th</sub> (A) | AC3<br>400V<br>(kW) | Ön Etiket<br>Ölçüsü<br>(mm) | İletken<br>Kesiti<br>(mm <sup>2</sup> ) | Ürün Kodu     | Liste<br>Fiyatı<br>(TL/Ad.) |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------|-----------------------------|-----------------------------------------|---------------|-----------------------------|
|    | <b>2 Kademeli</b><br><b>1x(0-1-2)</b><br>         | 10                                  | 2,2                 | 30x30                       | 1,5                                     | ST021/6E/NS   | 500,00 ₺                    |
|                                                                                     |                                                                                                                                    | 25                                  | 5,5                 | 48x48                       | 4                                       | ST021/8E/NS   | 510,00 ₺                    |
|                                                                                     |                                                                                                                                    | 32                                  | 9                   | 64x64                       | 6                                       | ST021/20E/NS  | 760,00 ₺                    |
|                                                                                     |                                                                                                                                    | 45                                  | 11                  | 64x64                       | 6                                       | ST021/32E/NS  | 910,00 ₺                    |
|                                                                                     |                                                                                                                                    | 63-80                               | 15                  | 64x64                       | 35                                      | ST021/40E/NS  | 1.300,00 ₺                  |
|                                                                                     |                                                                                                                                    | 125                                 | 27                  | 85x85                       | 70                                      | ST021/100E/NS | 2.340,00 ₺                  |
|   | <b>3 Kademeli</b><br><b>1x(0-1-2-3)</b><br>      | 10                                  | 2,2                 | 30x30                       | 1,5                                     | ST031/6E/NS   | 665,00 ₺                    |
|                                                                                     |                                                                                                                                    | 25                                  | 5,5                 | 48x48                       | 4                                       | ST031/8E/NS   | 670,00 ₺                    |
|                                                                                     |                                                                                                                                    | 32                                  | 9                   | 64x64                       | 6                                       | ST031/20E/NS  | 1.130,00 ₺                  |
|                                                                                     |                                                                                                                                    | 45                                  | 11                  | 64x64                       | 6                                       | ST031/32E/NS  | 1.230,00 ₺                  |
|                                                                                     |                                                                                                                                    | 63-80                               | 15                  | 64x64                       | 35                                      | ST031/40E/NS  | 1.850,00 ₺                  |
|                                                                                     |                                                                                                                                    | 125                                 | 27                  | 85x85                       | 70                                      | ST031/100E/NS | 3.340,00 ₺                  |
|  | <b>4 Kademeli</b><br><b>1x(0-1-2-3-4)</b><br>   | 10                                  | 2,2                 | 30x30                       | 1,5                                     | ST041/6E/NS   | 735,00 ₺                    |
|                                                                                     |                                                                                                                                    | 25                                  | 5,5                 | 48x48                       | 4                                       | ST041/8E/NS   | 740,00 ₺                    |
|                                                                                     |                                                                                                                                    | 32                                  | 9                   | 64x64                       | 6                                       | ST041/20E/NS  | 1.230,00 ₺                  |
|                                                                                     |                                                                                                                                    | 45                                  | 11                  | 64x64                       | 6                                       | ST041/32E/NS  | 1.460,00 ₺                  |
|                                                                                     |                                                                                                                                    | 63-80                               | 15                  | 64x64                       | 35                                      | ST041/40E/NS  | 2.150,00 ₺                  |
|                                                                                     |                                                                                                                                    | 125                                 | 27                  | 85x85                       | 70                                      | ST041/100E/NS | 3.950,00 ₺                  |
|  | <b>5 Kademeli</b><br><b>1x(0-1-2-3-4-5)</b><br> | 10                                  | 2,2                 | 30x30                       | 1,5                                     | ST051/6E/NS   | 900,00 ₺                    |
|                                                                                     |                                                                                                                                    | 25                                  | 5,5                 | 48x48                       | 4                                       | ST051/8E/NS   | 910,00 ₺                    |
|                                                                                     |                                                                                                                                    | 32                                  | 9                   | 64x64                       | 6                                       | ST051/20E/NS  | 1.590,00 ₺                  |
|                                                                                     |                                                                                                                                    | 45                                  | 11                  | 64x64                       | 6                                       | ST051/32E/NS  | 1.720,00 ₺                  |
|                                                                                     |                                                                                                                                    | 63-80                               | 15                  | 64x64                       | 35                                      | ST051/40E/NS  | 2.600,00 ₺                  |
|                                                                                     |                                                                                                                                    | 125                                 | 27                  | 85x85                       | 70                                      | ST051/100E/NS | 4.770,00 ₺                  |

# sontheimer | Pako Şalterleri

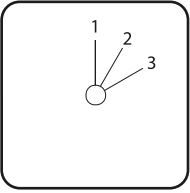
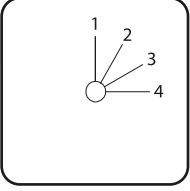
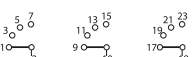
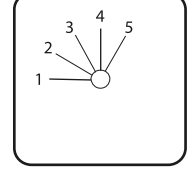
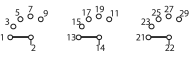
## ST SERİSİ KADEMELİ PAKO ŞALTERLER - İKİ FAZLI, SIFIRSIZ

| Ön Etiket                                                                          | Şema                                                                                                                    | Sürekli Akım<br>I <sub>th</sub> (A) | AC3<br>400V<br>(kW) | Ön Etiket<br>Ölçüsü<br>(mm) | İletken<br>Kesiti<br>(mm <sup>2</sup> ) | Ürün Kodu           | Liste<br>Fiyatı<br>(TL/Ad.) |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------|-----------------------------|-----------------------------------------|---------------------|-----------------------------|
|   | <b>3 Kademeli<br/>2x(1-2-3)</b><br>    | 10                                  | 2,2                 | 30x30                       | 1,5                                     | <b>ST32/6E/NS</b>   | <b>955,00 ₺</b>             |
|                                                                                    |                                                                                                                         | 25                                  | 5,5                 | 48x48                       | 4                                       | <b>ST32/8E/NS</b>   | <b>960,00 ₺</b>             |
|                                                                                    |                                                                                                                         | 32                                  | 9                   | 64x64                       | 6                                       | <b>ST32/20E/NS</b>  | <b>1.670,00 ₺</b>           |
|                                                                                    |                                                                                                                         | 45                                  | 11                  | 64x64                       | 6                                       | <b>ST32/32E/NS</b>  | <b>2.040,00 ₺</b>           |
|                                                                                    |                                                                                                                         | 63-80                               | 15                  | 64x64                       | 35                                      | <b>ST32/40E/NS</b>  | <b>2.950,00 ₺</b>           |
|                                                                                    |                                                                                                                         | 125                                 | 27                  | 85x85                       | 70                                      | <b>ST32/100E/NS</b> | <b>5.640,00 ₺</b>           |
|  | <b>4 Kademeli<br/>2x(1-2-3-4)</b><br> | 10                                  | 2,2                 | 30x30                       | 1,5                                     | <b>ST42/6E/NS</b>   | <b>1.180,00 ₺</b>           |
|                                                                                    |                                                                                                                         | 25                                  | 5,5                 | 48x48                       | 4                                       | <b>ST42/8E/NS</b>   | <b>1.190,00 ₺</b>           |
|                                                                                    |                                                                                                                         | 32                                  | 9                   | 64x64                       | 6                                       | <b>ST42/20E/NS</b>  | <b>2.010,00 ₺</b>           |
|                                                                                    |                                                                                                                         | 45                                  | 11                  | 64x64                       | 6                                       | <b>ST42/32E/NS</b>  | <b>2.450,00 ₺</b>           |
|                                                                                    |                                                                                                                         | 63-80                               | 15                  | 64x64                       | 35                                      | <b>ST42/40E/NS</b>  | <b>3.750,00 ₺</b>           |
|                                                                                    |                                                                                                                         | 125                                 | 27                  | 85x85                       | 70                                      | <b>ST42/100E/NS</b> | <b>7.250,00 ₺</b>           |

## ST SERİSİ KADEMELİ PAKO ŞALTERLER - İKİ FAZLI, SIFIRLI

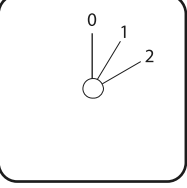
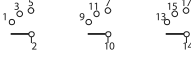
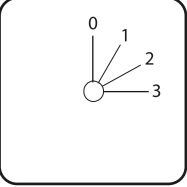
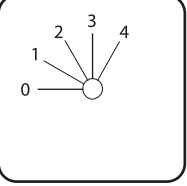
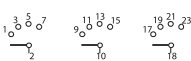
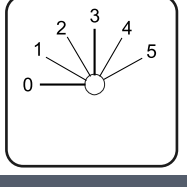
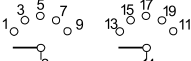
| Ön Etiket                                                                           | Şema                                                                                                                       | Sürekli Akım<br>I <sub>th</sub> (A) | AC3<br>400V<br>(kW) | Ön Etiket<br>Ölçüsü<br>(mm) | İletken<br>Kesiti<br>(mm <sup>2</sup> ) | Ürün Kodu            | Liste<br>Fiyatı<br>(TL/Ad.) |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------|-----------------------------|-----------------------------------------|----------------------|-----------------------------|
|  | <b>4 Kademeli<br/>2x(0-1-2-3)</b><br>   | 10                                  | 2,2                 | 30x30                       | 1,5                                     | <b>ST032/6E/NS</b>   | <b>955,00 ₺</b>             |
|                                                                                     |                                                                                                                            | 25                                  | 5,5                 | 48x48                       | 4                                       | <b>ST032/8E/NS</b>   | <b>960,00 ₺</b>             |
|                                                                                     |                                                                                                                            | 32                                  | 9                   | 64x64                       | 6                                       | <b>ST032/20E/NS</b>  | <b>1.670,00 ₺</b>           |
|                                                                                     |                                                                                                                            | 45                                  | 11                  | 64x64                       | 6                                       | <b>ST032/32E/NS</b>  | <b>2.040,00 ₺</b>           |
|                                                                                     |                                                                                                                            | 63-80                               | 15                  | 64x64                       | 35                                      | <b>ST032/40E/NS</b>  | <b>2.950,00 ₺</b>           |
|                                                                                     |                                                                                                                            | 125                                 | 27                  | 85x85                       | 70                                      | <b>ST032/100E/NS</b> | <b>5.640,00 ₺</b>           |
|  | <b>5 Kademeli<br/>2x(0-1-2-3-4)</b><br> | 10                                  | 2,2                 | 30x30                       | 1,5                                     | <b>ST042/6E/NS</b>   | <b>1.180,00 ₺</b>           |
|                                                                                     |                                                                                                                            | 25                                  | 5,5                 | 48x48                       | 4                                       | <b>ST042/8E/NS</b>   | <b>1.190,00 ₺</b>           |
|                                                                                     |                                                                                                                            | 32                                  | 9                   | 64x64                       | 6                                       | <b>ST042/20E/NS</b>  | <b>2.010,00 ₺</b>           |
|                                                                                     |                                                                                                                            | 45                                  | 11                  | 64x64                       | 6                                       | <b>ST042/32E/NS</b>  | <b>2.450,00 ₺</b>           |
|                                                                                     |                                                                                                                            | 63-80                               | 15                  | 64x64                       | 35                                      | <b>ST042/40E/NS</b>  | <b>3.750,00 ₺</b>           |
|                                                                                     |                                                                                                                            | 125                                 | 27                  | 85x85                       | 70                                      | <b>ST042/100E/NS</b> | <b>7.250,00 ₺</b>           |

## ST SERİSİ KADEMELİ PAKO ŞALTERLER - ÜÇ FAZLI, SIFIRSIZ

| Ön Etiket                                                                           | Şema                                                                                                                             | Sürekli Akım $I_{th}$ (A) | AC3 400V (kW) | Ön Etiket Ölçüsü (mm) | İletken Kesiti (mm <sup>2</sup> ) | Ürün Kodu           | Liste Fiyatı (TL/Ad.) |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------|-----------------------|-----------------------------------|---------------------|-----------------------|
|    | <b>3 Kademeli</b><br><b>1x(1-2-3)</b><br>       | 10                        | 2,2           | 30x30                 | 1,5                               | <b>ST33/6E/NS</b>   | <b>1.350,00 ₺</b>     |
|                                                                                     |                                                                                                                                  | 25                        | 5,5           | 48x48                 | 4                                 | <b>ST33/8E/NS</b>   | <b>1.360,00 ₺</b>     |
|                                                                                     |                                                                                                                                  | 32                        | 9             | 64x64                 | 6                                 | <b>ST33/20E/NS</b>  | <b>2.290,00 ₺</b>     |
|                                                                                     |                                                                                                                                  | 45                        | 11            | 64x64                 | 6                                 | <b>ST33/32E/NS</b>  | <b>2.660,00 ₺</b>     |
|                                                                                     |                                                                                                                                  | 63-80                     | 15            | 64x64                 | 35                                | <b>ST33/40E/NS</b>  | <b>4.300,00 ₺</b>     |
|                                                                                     |                                                                                                                                  | 125                       | 27            | 85x85                 | 70                                | <b>ST33/100E/NS</b> | <b>7.600,00 ₺</b>     |
|   | <b>4 Kademeli</b><br><b>x(1-2-3-4)</b><br>      | 10                        | 2,2           | 30x30                 | 1,5                               | <b>ST43/6E/NS</b>   | <b>1.630,00 ₺</b>     |
|                                                                                     |                                                                                                                                  | 25                        | 5,5           | 48x48                 | 4                                 | <b>ST43/8E/NS</b>   | <b>1.640,00 ₺</b>     |
|                                                                                     |                                                                                                                                  | 32                        | 9             | 64x64                 | 6                                 | <b>ST43/20E/NS</b>  | <b>2.910,00 ₺</b>     |
|                                                                                     |                                                                                                                                  | 45                        | 11            | 64x64                 | 6                                 | <b>ST43/32E/NS</b>  | <b>3.450,00 ₺</b>     |
|                                                                                     |                                                                                                                                  | 63-80                     | 15            | 64x64                 | 35                                | <b>ST43/40E/NS</b>  | <b>5.300,00 ₺</b>     |
|                                                                                     |                                                                                                                                  | 125                       | 27            | 85x85                 | 70                                | <b>ST43/100E/NS</b> | <b>9.900,00 ₺</b>     |
|  | <b>5 Kademeli</b><br><b>1x(1-2-3-4-5)</b><br> | 10                        | 2,2           | 30x30                 | 1,5                               | <b>ST53/6E/NS</b>   | <b>1.990,00 ₺</b>     |
|                                                                                     |                                                                                                                                  | 25                        | 5,5           | 48x48                 | 4                                 | <b>ST53/8E/NS</b>   | <b>2.000,00 ₺</b>     |
|                                                                                     |                                                                                                                                  | 32                        | 9             | 64x64                 | 6                                 | <b>ST53/20E/NS</b>  | <b>3.650,00 ₺</b>     |
|                                                                                     |                                                                                                                                  | 45                        | 11            | 64x64                 | 6                                 | <b>ST53/32E/NS</b>  | <b>4.150,00 ₺</b>     |
|                                                                                     |                                                                                                                                  | 63-80                     | 15            | 64x64                 | 35                                | <b>ST53/40E/NS</b>  | <b>6.950,00 ₺</b>     |

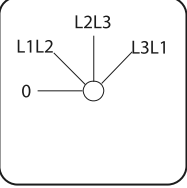
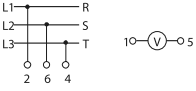
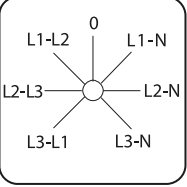
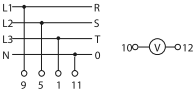
# sontheimer | Pako Şalterleri

## ST SERİSİ KADEMELİ PAKO ŞALTERLER - ÜÇ FAZLI, SIFIRLI

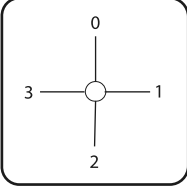
| Ön Etiket                                                                           | Şema                                                                                                                       | Sürekli Akım<br>I <sub>th</sub> (A) | AC3<br>400V<br>(kW) | Ön Etiket<br>Ölçüsü<br>(mm) | İletken<br>Kesiti<br>(mm <sup>2</sup> ) | Ürün Kodu     | Liste<br>Fiyatı<br>(TL/Ad.) |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------|-----------------------------|-----------------------------------------|---------------|-----------------------------|
|    | <b>2 Kademeli<br/>3x(0-1-2)</b><br>       | 10                                  | 2,2                 | 30x30                       | 1,5                                     | ST023/6E/NS   | 945,00 ₺                    |
|                                                                                     |                                                                                                                            | 25                                  | 5,5                 | 48x48                       | 4                                       | ST023/8E/NS   | 950,00 ₺                    |
|                                                                                     |                                                                                                                            | 32                                  | 9                   | 64x64                       | 6                                       | ST023/20E/NS  | 1.670,00 ₺                  |
|                                                                                     |                                                                                                                            | 45                                  | 11                  | 64x64                       | 6                                       | ST023/32E/NS  | 1.840,00 ₺                  |
|                                                                                     |                                                                                                                            | 63-80                               | 15                  | 64x64                       | 35                                      | ST023/40E/NS  | 2.900,00 ₺                  |
|                                                                                     |                                                                                                                            | 125                                 | 27                  | 85x85                       | 70                                      | ST023/100E/NS | 5.020,00 ₺                  |
|   | <b>3 Kademeli<br/>3x(0-1-2-3)</b><br>     | 10                                  | 2,2                 | 30x30                       | 1,5                                     | ST033/6E/NS   | 1.350,00 ₺                  |
|                                                                                     |                                                                                                                            | 25                                  | 5,5                 | 48x48                       | 4                                       | ST033/8E/NS   | 1.360,00 ₺                  |
|                                                                                     |                                                                                                                            | 32                                  | 9                   | 64x64                       | 6                                       | ST033/20E/NS  | 2.290,00 ₺                  |
|                                                                                     |                                                                                                                            | 45                                  | 11                  | 64x64                       | 6                                       | ST033/32E/NS  | 2.660,00 ₺                  |
|                                                                                     |                                                                                                                            | 63-80                               | 15                  | 64x64                       | 35                                      | ST033/40E/NS  | 4.300,00 ₺                  |
|                                                                                     |                                                                                                                            | 125                                 | 27                  | 85x85                       | 70                                      | ST033/100E/NS | 7.600,00 ₺                  |
|  | <b>4 Kademeli<br/>3x(0-1-2-3-4)</b><br> | 10                                  | 2,2                 | 30x30                       | 1,5                                     | ST043/6E/NS   | 1.630,00 ₺                  |
|                                                                                     |                                                                                                                            | 25                                  | 5,5                 | 48x48                       | 4                                       | ST043/8E/NS   | 1.640,00 ₺                  |
|                                                                                     |                                                                                                                            | 32                                  | 9                   | 64x64                       | 6                                       | ST043/20E/NS  | 2.910,00 ₺                  |
|                                                                                     |                                                                                                                            | 45                                  | 11                  | 64x64                       | 6                                       | ST043/32E/NS  | 3.450,00 ₺                  |
|                                                                                     |                                                                                                                            | 63-80                               | 15                  | 64x64                       | 35                                      | ST043/40E/NS  | 5.300,00 ₺                  |
|                                                                                     |                                                                                                                            | 125                                 | 27                  | 85x85                       | 70                                      | ST043/100E/NS | 9.900,00 ₺                  |
|  | <b>5 Kademeli<br/>1x(1-2-3-4-5)</b><br> | 10                                  | 2,2                 | 30x30                       | 1,5                                     | ST053/6E/NS   | 1.990,00 ₺                  |
|                                                                                     |                                                                                                                            | 25                                  | 5,5                 | 48x48                       | 4                                       | ST053/8E/NS   | 2.000,00 ₺                  |
|                                                                                     |                                                                                                                            | 32                                  | 9                   | 64x64                       | 6                                       | ST053/20E/NS  | 3.650,00 ₺                  |
|                                                                                     |                                                                                                                            | 45                                  | 11                  | 64x64                       | 6                                       | ST053/32E/NS  | 4.150,00 ₺                  |
|                                                                                     |                                                                                                                            | 63-80                               | 15                  | 64x64                       | 35                                      | ST053/40E/NS  | 6.950,00 ₺                  |

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## V SERİSİ VOLTMETRE KOMÜTATÖRLERİ

| Ön Etiket                                                                          | Şema                                                                                                                | Sürekli Akım<br>$I_{th}$ [A] | AC3<br>400V<br>[kW] | Ön Etiket<br>Ölçüsü<br>[mm] | İletken<br>Kesiti<br>[mm <sup>2</sup> ] | Ürün Kodu        | Liste Fiyatı<br>[TL/Ad.] |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------|-----------------------------|-----------------------------------------|------------------|--------------------------|
|   | <b>4 Pozisyonlu (0-LL)</b><br>     | 10                           | 2,2                 | 30x30                       | 1,5                                     | <b>V3/6E/NS</b>  | <b>700,00 ₺</b>          |
|                                                                                    |                                                                                                                     | 25                           | 5,5                 | 48x48                       | 4                                       | <b>V3/8E/NS</b>  | <b>710,00 ₺</b>          |
|  | <b>7 Pozisyonlu (LL-0-LN)</b><br> | 10                           | 2,2                 | 30x30                       | 1,5                                     | <b>V30/6E/NS</b> | <b>955,00 ₺</b>          |
|                                                                                    |                                                                                                                     | 25                           | 5,5                 | 48x48                       | 4                                       | <b>V30/8E/NS</b> | <b>960,00 ₺</b>          |

## AU SERİSİ AMPERMETRE KOMÜTATÖRLERİ

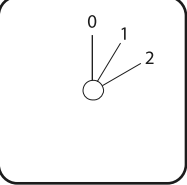
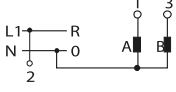
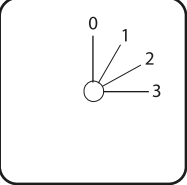
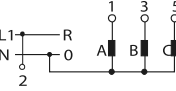
| Ön Etiket                                                                           | Şema                                                                                                              | Sürekli Akım<br>$I_{th}$ [A] | AC3<br>400V<br>[kW] | Ön Etiket<br>Ölçüsü<br>[mm] | İletken<br>Kesiti<br>[mm <sup>2</sup> ] | Ürün Kodu         | Liste Fiyatı<br>[TL/Ad.] |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------|-----------------------------|-----------------------------------------|-------------------|--------------------------|
|  | <b>4 Pozisyonlu (0-LL)</b><br> | 10                           | 2,2                 | 30x30                       | 1,5                                     | <b>AU31/6E/NS</b> | <b>945,00 ₺</b>          |
|                                                                                     |                                                                                                                   | 25                           | 5,5                 | 48x48                       | 4                                       | <b>AU31/8E/NS</b> | <b>950,00 ₺</b>          |

## MOTOR KUMANDA ŞALTERLERİ

| Ön Etiket | Şema                                                                          | Sürekli Akım I <sub>th</sub> (A) | AC3 400V (kW) | Ön Etiket Ölçüsü (mm) | İletken Kesiti (mm <sup>2</sup> ) | Ürün Kodu      | Liste Fiyatı (TL/Ad.) |
|-----------|-------------------------------------------------------------------------------|----------------------------------|---------------|-----------------------|-----------------------------------|----------------|-----------------------|
|           | <b>3 Fazlı Motor Enversör Şalteri Sağ-Sol</b><br>                             | 25                               | 5,5           | 48x48                 | 4                                 | W3/8E/NS       | 930,00 ₺              |
|           |                                                                               | 25                               | 5,5           | 64x64                 | 4                                 | W3/8E/NS/Z19   | 955,00 ₺              |
|           |                                                                               | 32                               | 9             | 64x64                 | 6                                 | W3/20E/NS      | 1.550,00 ₺            |
|           |                                                                               | 45                               | 11            | 64x64                 | 6                                 | W3/32E/NS      | 1.790,00 ₺            |
|           |                                                                               | 63-80                            | 15            | 64x64                 | 35                                | W3/40E/NS      | 2.750,00 ₺            |
|           |                                                                               | 125                              | 27            | 85x85                 | 70                                | W3/100E/NS     | 4.770,00 ₺            |
|           |                                                                               | 160                              | 37            | 85x85                 | 70                                | W3/160E/NS     | 7.190,00 ₺            |
|           | <b>Yıldız Üçgen Motor Şalteri (0-Y-Δ)</b><br>                                 | 25                               | 5,5           | 48x48                 | 4                                 | SD/8E/NS       | 1.150,00 ₺            |
|           |                                                                               | 25                               | 5,5           | 64x64                 | 4                                 | SD/8E/NS/Z19   | 1.175,00 ₺            |
|           |                                                                               | 32                               | 9             | 64x64                 | 6                                 | SD/20E/NS      | 2.070,00 ₺            |
|           |                                                                               | 45                               | 11            | 64x64                 | 6                                 | SD/32E/NS      | 2.470,00 ₺            |
|           |                                                                               | 63-80                            | 15            | 64x64                 | 35                                | SD/40E/NS      | 3.750,00 ₺            |
|           |                                                                               | 125                              | 27            | 85x85                 | 70                                | SD/100E/NS     | 6.510,00 ₺            |
|           |                                                                               | 160                              | 37            | 85x85                 | 70                                | SD/160E/NS     | 10.540,00 ₺           |
|           | <b>1 Fazlı Yardımcı Sargılı Startlı Motor Kumanda Şalteri (0-1-START)</b><br> | 25                               | 5,5           | 48x48                 | 4                                 | SEA10/8E/NS    | 555,00 ₺              |
|           |                                                                               | 32                               | 9             | 64x64                 | 6                                 | SEA10/20E/NS   | 1.040,00 ₺            |
|           |                                                                               | 45                               | 11            | 64x64                 | 6                                 | SEA10/32E/NS   | 1.100,00 ₺            |
|           | <b>Çift Devirli, Tek Yönlü, Enversör Şalteri Motor (0-1-2)</b><br>            | 25                               | 5,5           | 48x48                 | 4                                 | P12/8E/NS      | 1.140,00 ₺            |
|           |                                                                               | 25                               | 5,5           | 64x64                 | 4                                 | P12/8E/NS/Z19  | 1.170,00 ₺            |
|           |                                                                               | 32                               | 9             | 64x64                 | 6                                 | P12/20E/NS     | 2.030,00 ₺            |
|           |                                                                               | 45                               | 11            | 64x64                 | 6                                 | P12/32E/NS     | 2.470,00 ₺            |
|           |                                                                               | 63-80                            | 15            | 64x64                 | 35                                | P12/40E/NS     | 3.700,00 ₺            |
|           |                                                                               | 125                              | 27            | 85x85                 | 70                                | P12/100E/NS    | 6.940,00 ₺            |
|           | <b>Çift Devirli, Tek Yönlü, Enversör Şalteri Motor (1-0-2)</b><br>            | 25                               | 5,5           | 48x48                 | 4                                 | P012/8E/NS     | 1.140,00 ₺            |
|           |                                                                               | 25                               | 5,5           | 64x64                 | 4                                 | P012/8E/NS/Z19 | 1.170,00 ₺            |
|           |                                                                               | 32                               | 9             | 64x64                 | 6                                 | P012/20E/NS    | 2.030,00 ₺            |
|           |                                                                               | 45                               | 11            | 64x64                 | 6                                 | P012/32E/NS    | 2.470,00 ₺            |
|           |                                                                               | 63-80                            | 15            | 64x64                 | 35                                | P012/40E/NS    | 3.750,00 ₺            |
|           |                                                                               | 125                              | 27            | 85x85                 | 70                                | P012/100E/NS   | 6.940,00 ₺            |
|           | <b>Çift Devirli, Tek Yönlü, Enversör Şalteri Motor (2-1-0-1-2)</b><br>        | 25                               | 5,5           | 48x48                 | 4                                 | WP12/8E/NS     | 1.770,00 ₺            |
|           |                                                                               | 25                               | 5,5           | 64x64                 | 4                                 | WP12/8E/NS/Z19 | 1.800,00 ₺            |
|           |                                                                               | 32                               | 9             | 64x64                 | 6                                 | WP12/20E/NS    | 3.050,00 ₺            |
|           |                                                                               | 45                               | 11            | 64x64                 | 6                                 | WP12/32E/NS    | 3.590,00 ₺            |
|           |                                                                               | 63-80                            | 15            | 64x64                 | 35                                | WP12/40E/NS    | 5.700,00 ₺            |
|           |                                                                               | 125                              | 27            | 85x85                 | 70                                | WP12/100E/NS   | 11.650,00 ₺           |

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## GR SERİSİ GRUP ŞALTERLERİ

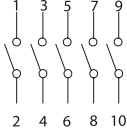
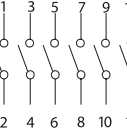
| Ön Etiket                                                                          | Şema                                                                                                                                   | Sürekli Akım<br>I <sub>th</sub> (A) | AC3<br>400V<br>(kW) | Ön Etiket<br>Ölçüsü<br>(mm) | İletken<br>Kesiti<br>(mm <sup>2</sup> ) | Ürün Kodu           | Liste<br>Fiyatı<br>(TL/Ad.) |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------|-----------------------------|-----------------------------------------|---------------------|-----------------------------|
|   | <b>2 Grup, 1 Kutuplu</b><br><b>0-A-A+B</b><br>        | 10                                  | 2,2                 | 30x30                       | 1,5                                     | <b>GR21/6E/NS</b>   | <b>500,00 ₺</b>             |
|                                                                                    |                                                                                                                                        | 25                                  | 5,5                 | 48x48                       | 4                                       | <b>GR21/8E/NS</b>   | <b>520,00 ₺</b>             |
|                                                                                    |                                                                                                                                        | 32                                  | 9                   | 64x64                       | 6                                       | <b>GR21/20E/NS</b>  | <b>790,00 ₺</b>             |
|                                                                                    |                                                                                                                                        | 45                                  | 11                  | 64x64                       | 6                                       | <b>GR21/32E/NS</b>  | <b>930,00 ₺</b>             |
|                                                                                    |                                                                                                                                        | 63-80                               | 15                  | 64x64                       | 35                                      | <b>GR21/40E/NS</b>  | <b>1.240,00 ₺</b>           |
|                                                                                    |                                                                                                                                        | 125                                 | 27                  | 85x85                       | 70                                      | <b>GR21/100E/NS</b> | <b>2.050,00 ₺</b>           |
|  | <b>3 Grup, 1 Kutuplu</b><br><b>0-A-A+B-A+B+C</b><br> | 10                                  | 2,2                 | 30x30                       | 1,5                                     | <b>GR31/6E/NS</b>   | <b>635,00 ₺</b>             |
|                                                                                    |                                                                                                                                        | 25                                  | 5,5                 | 48x48                       | 4                                       | <b>GR31/8E/NS</b>   | <b>640,00 ₺</b>             |
|                                                                                    |                                                                                                                                        | 32                                  | 9                   | 64x64                       | 6                                       | <b>GR31/20E/NS</b>  | <b>1.070,00 ₺</b>           |
|                                                                                    |                                                                                                                                        | 45                                  | 11                  | 64x64                       | 6                                       | <b>GR31/32E/NS</b>  | <b>1.230,00 ₺</b>           |
|                                                                                    |                                                                                                                                        | 63-80                               | 15                  | 64x64                       | 35                                      | <b>GR31/40E/NS</b>  | <b>1.710,00 ₺</b>           |
|                                                                                    |                                                                                                                                        | 125                                 | 27                  | 85x85                       | 70                                      | <b>GR31/100E/NS</b> | <b>2.910,00 ₺</b>           |

## KİLİTLENEBİLİR MEKANİZMALI AÇ-KAPA PAKO ŞALTERLER

| Ön Etiket                                                                           | Şema                  | Sürekli Akım<br>I <sub>th</sub> (A) | AC3<br>400V<br>(kW) | Ön Etiket<br>Ölçüsü<br>(mm) | İletken<br>Kesiti<br>(mm <sup>2</sup> ) | Ürün Kodu          | Liste<br>Fiyatı<br>(TL/Ad.) |
|-------------------------------------------------------------------------------------|-----------------------|-------------------------------------|---------------------|-----------------------------|-----------------------------------------|--------------------|-----------------------------|
|  | Sarı-Kırmızı, 1x(0-1) | 25                                  | 5,5                 | 64x64                       | 4                                       | <b>A1/8E/Z33GB</b> | <b>425,00 ₺</b>             |
|                                                                                     | Sarı-Kırmızı, 2x(0-1) | 25                                  | 5,5                 | 64x64                       | 4                                       | <b>A2/8E/Z33GB</b> | <b>540,00 ₺</b>             |
|                                                                                     | Sarı-Kırmızı, 3x(0-1) | 25                                  | 5,5                 | 64x64                       | 4                                       | <b>A3/8E/Z33GB</b> | <b>675,00 ₺</b>             |
|                                                                                     | Sarı-Kırmızı, 4x(0-1) | 25                                  | 5,5                 | 64x64                       | 4                                       | <b>A4/8E/Z33GB</b> | <b>775,00 ₺</b>             |
|                                                                                     |                       |                                     |                     |                             |                                         |                    |                             |
|  | Siyah, 1x(0-1)        | 25                                  | 5,5                 | 64x64                       | 4                                       | <b>A1/8E/Z33S</b>  | <b>425,00 ₺</b>             |
|                                                                                     | Siyah, 2x(0-1)        | 25                                  | 5,5                 | 64x64                       | 4                                       | <b>A2/8E/Z33S</b>  | <b>540,00 ₺</b>             |
|                                                                                     | Siyah, 3x(0-1)        | 25                                  | 5,5                 | 64x64                       | 4                                       | <b>A3/8E/Z33S</b>  | <b>675,00 ₺</b>             |
|                                                                                     | Siyah, 4x(0-1)        | 25                                  | 5,5                 | 64x64                       | 4                                       | <b>A4/8E/Z33S</b>  | <b>775,00 ₺</b>             |
|                                                                                     |                       |                                     |                     |                             |                                         |                    |                             |

# sontheimer | Pako Şalterleri

## KİLİTLENEBİLİR MEKANİZMALI, KADEMELİ ASANSÖR PANOSU ŞALTERLERİ

| Ön Etiket                                                                          | Şema                                                                                                           | Sürekli Akım<br>I <sub>th</sub> (A) | AC3<br>400V<br>(kW) | Ön Etiket<br>Ölçüsü<br>(mm) | İletken<br>Kesiti<br>(mm <sup>2</sup> ) | Ürün Kodu           | Liste<br>Fiyatı<br>(TL/Ad.) |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------|-----------------------------|-----------------------------------------|---------------------|-----------------------------|
|   | <b>5 kutuplu 5x(0-1)</b><br>  | 25                                  | 5,5                 | 64x64                       | 4                                       | <b>A5/8E/Z33GB</b>  | <b>940,00 ₺</b>             |
|                                                                                    |                                                                                                                | 32                                  | 9                   | 64x64                       | 6                                       | <b>A5/20E/Z33GB</b> | <b>1.550,00 ₺</b>           |
|                                                                                    |                                                                                                                | 45                                  | 11                  | 64x64                       | 6                                       | <b>A5/32E/Z33GB</b> | <b>1.670,00 ₺</b>           |
|                                                                                    |                                                                                                                | 63-80                               | 15                  | 64x64                       | 35                                      | <b>A5/40E/Z33GB</b> | <b>2.500,00 ₺</b>           |
|  | <b>6 kutuplu 6x(0-1)</b><br> | 25                                  | 5,5                 | 64x64                       | 4                                       | <b>A6/8E/Z33GB</b>  | <b>1.000,00 ₺</b>           |
|                                                                                    |                                                                                                                | 32                                  | 9                   | 64x64                       | 6                                       | <b>A6/20E/Z33GB</b> | <b>1.690,00 ₺</b>           |
|                                                                                    |                                                                                                                | 45                                  | 11                  | 64x64                       | 6                                       | <b>A6/32E/Z33GB</b> | <b>1.970,00 ₺</b>           |
|                                                                                    |                                                                                                                | 63-80                               | 15                  | 64x64                       | 35                                      | <b>A6/40E/Z33GB</b> | <b>3.070,00 ₺</b>           |

## KİLİTLENEBİLİR MEKANİZMALI, KUTULU PAKO ŞALTERLER

| Ön Etiket                                                                           | Şema                      | Sürekli Akım<br>I <sub>th</sub> (A) | AC3<br>400V<br>(kW) | Ön Etiket<br>Ölçüsü<br>(mm) | İletken<br>Kesiti<br>(mm <sup>2</sup> ) | Ürün Kodu                | Liste<br>Fiyatı<br>(TL/Ad.) |
|-------------------------------------------------------------------------------------|---------------------------|-------------------------------------|---------------------|-----------------------------|-----------------------------------------|--------------------------|-----------------------------|
|  | 1 kutuplu 1x(0-1), kutulu | 25                                  | 7,5                 | 61,4x61,4                   | 4                                       | <b>R1/13PLM-D0/Z33GB</b> | <b>800,00 ₺</b>             |
|                                                                                     | 2 kutuplu 2x(0-1), kutulu | 25                                  | 7,5                 | 61,4x61,4                   | 4                                       | <b>R2/13PLM-D0/Z33GB</b> | <b>960,00 ₺</b>             |
|                                                                                     | 3 kutuplu 3x(0-1), kutulu | 25                                  | 7,5                 | 61,4x61,4                   | 4                                       | <b>R3/13PLM-D0/Z33GB</b> | <b>1.040,00 ₺</b>           |
|                                                                                     | 4 kutuplu 4x(0-1), kutulu | 25                                  | 7,5                 | 61,4x61,4                   | 4                                       | <b>R4/13PLM-D0/Z33GB</b> | <b>1.100,00 ₺</b>           |
|                                                                                     | 5 kutuplu 5x(0-1), kutulu | 25                                  | 7,5                 | 61,4x61,4                   | 4                                       | <b>R5/13PLM-D0/Z33GB</b> | <b>1.240,00 ₺</b>           |
|                                                                                     | 6 kutuplu 6x(0-1), kutulu | 25                                  | 7,5                 | 61,4x61,4                   | 4                                       | <b>R6/13PLM-D0/Z33GB</b> | <b>1.360,00 ₺</b>           |



## 16-250A, Pano Kapağına Montaj Emniyet Şalterleri

Sarı/Kırmızı  
kilitlenebilir  
mekanizmalı

### 3 Kutuplu Emniyet / Ana Şalterler



| Sürekli Akımı<br>$I_{th}$ (A.) | Anma Gücü<br>AC23<br>(kW) | Anma Gücü<br>AC3<br>(kW) | Ürün Kodu       | Liste Fiyatı<br>(TL/Ad.) |
|--------------------------------|---------------------------|--------------------------|-----------------|--------------------------|
| 16                             | 7,5                       | 5,5                      | NLO16/3E/Z33/1  | 1.070,00 ₺               |
| 25                             | 9,0                       | 7,5                      | NLO25/3E/Z33/1  | 1.090,00 ₺               |
| 32                             | 11,5                      | 9,5                      | NLO32/3E/Z33/1  | 1.130,00 ₺               |
| 40                             | 15,0                      | 11,5                     | NLO40/3E/Z33/1  | 1.240,00 ₺               |
| 63                             | 22,0                      | 18,5                     | NLO63/3E/Z33/1  | 1.360,00 ₺               |
| 80                             | 30,0                      | 22,0                     | NLT80/3E/Z33/1  | 3.350,00 ₺               |
| 100                            | 37,0                      | 30,0                     | NLT100/3E/Z33/1 | 5.600,00 ₺               |
| 125                            | 45,0                      | 37,0                     | NLT125/3E/Z33/1 | 5.800,00 ₺               |
| 160                            | 75,0                      | 50,0                     | NLT160/3E/Z20/1 | 14.450,00 ₺              |
| 180                            | 90,0                      | 75,0                     | NLT180/3E/Z20/1 | 15.400,00 ₺              |
| 250                            | 132,0                     | 110,0                    | NLT250/3E/Z20/1 | 15.750,00 ₺              |
| 315                            | 132,0                     | 110,0                    | NLT315/3E/Z20/1 | 23.530,00 ₺              |

## 16-250A, Pano Kapağına Montaj Emniyet Şalterleri

Sarı/Kırmızı  
kilitlenebilir  
mekanizmalı

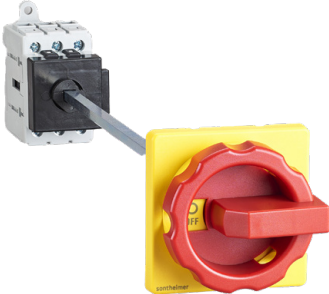
### 4 Kutuplu Emniyet / Ana Şalterler



| Sürekli Akımı<br>$I_{th}$ (A.) | Anma Gücü<br>AC23<br>(kW) | Anma Gücü<br>AC3<br>(kW) | Ürün Kodu       | Liste Fiyatı<br>(TL/Ad.) |
|--------------------------------|---------------------------|--------------------------|-----------------|--------------------------|
| 16                             | 7,5                       | 5,5                      | NLO16/4E/Z33/1  | 1.360,00 ₺               |
| 25                             | 9,0                       | 7,5                      | NLO25/4E/Z33/1  | 1.390,00 ₺               |
| 32                             | 11,5                      | 9,5                      | NLO32/4E/Z33/1  | 1.420,00 ₺               |
| 40                             | 15,0                      | 11,5                     | NLO40/4E/Z33/1  | 1.650,00 ₺               |
| 63                             | 22,0                      | 18,5                     | NLO63/4E/Z33/1  | 1.760,00 ₺               |
| 80                             | 30,0                      | 22,0                     | NLT80/4E/Z33/1  | 3.960,00 ₺               |
| 100                            | 37,0                      | 30,0                     | NLT100/4E/Z33/1 | 6.450,00 ₺               |
| 125                            | 45,0                      | 37,0                     | NLT125/4E/Z33/1 | 6.620,00 ₺               |
| 160                            | 75,0                      | 50,0                     | NLT160/4E/Z20/1 | 18.000,00 ₺              |
| 180                            | 90,0                      | 75,0                     | NLT180/4E/Z20/1 | 18.550,00 ₺              |
| 250                            | 132,0                     | 110,0                    | NLT250/4E/Z20/1 | 19.230,00 ₺              |
| 315                            | 132,0                     | 110,0                    | NLT315/4E/Z20/1 | 29.250,00 ₺              |

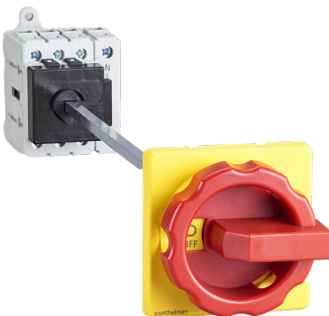
## 16-160A, Tabana Montaj Emniyet Şalterleri

Sarı/Kırmızı  
kilitlenebilir  
mekanizmalı

| 3 Kutuplu<br>Emniyet / Ana Şalterler                                              | Sürekli<br>Akımı<br>$I_{th}$ (A.) | Anma Gücü<br>AC23<br>(kW) | Anma Gücü<br>AC3<br>(kW) | Ürün Kodu        | Liste<br>Fiyatı<br>(TL/Ad.) |
|-----------------------------------------------------------------------------------|-----------------------------------|---------------------------|--------------------------|------------------|-----------------------------|
|  | 16                                | 7,5                       | 5,5                      | NLO16/3V/Z33/75  | 1.600,00 ₺                  |
|                                                                                   | 25                                | 9,0                       | 7,5                      | NLO25/3V/Z33/75  | 1.655,00 ₺                  |
|                                                                                   | 32                                | 11,5                      | 9,5                      | NLO32/3V/Z33/75  | 1.700,00 ₺                  |
|                                                                                   | 40                                | 15,0                      | 11,5                     | NLO40/3V/Z33/75  | 1.850,00 ₺                  |
|                                                                                   | 63                                | 22,0                      | 18,5                     | NLO63/3V/Z33/75  | 1.995,00 ₺                  |
|                                                                                   | 80                                | 30,0                      | 22,0                     | NLT80/3V/Z33/75  | 4.250,00 ₺                  |
|                                                                                   | 100                               | 37,0                      | 30,0                     | NLT100/3V/Z33/75 | 5.680,00 ₺                  |
|                                                                                   | 125                               | 45,0                      | 37,0                     | NLT125/3V/Z33/75 | 5.850,00 ₺                  |
|                                                                                   | 160                               | 75,0                      | 50,0                     | NLT160/3V/Z20/65 | 14.900,00 ₺                 |
|                                                                                   | 180                               | 90,0                      | 75,0                     | NLT180/3V/Z20/65 | 14.990,00 ₺                 |
|                                                                                   | 250                               | 132,0                     | 110,0                    | NLT250/3V/Z20/65 | 15.600,00 ₺                 |
|                                                                                   | 315                               | 132,0                     | 110,0                    | NLT315/3V/Z20/65 | 25.500,00 ₺                 |

## 16-160A, Tabana Montaj Emniyet Şalterleri

Sarı/Kırmızı  
kilitlenebilir  
mekanizmalı

| 4 Kutuplu<br>Emniyet / Ana Şalterler                                                | Sürekli<br>Akımı<br>$I_{th}$ (A.) | Anma Gücü<br>AC23<br>(kW) | Anma Gücü<br>AC3<br>(kW) | Ürün Kodu        | Liste<br>Fiyatı<br>(TL/Ad.) |
|-------------------------------------------------------------------------------------|-----------------------------------|---------------------------|--------------------------|------------------|-----------------------------|
|  | 16                                | 7,5                       | 5,5                      | NLO16/4V/Z33/75  | 1.900,00 ₺                  |
|                                                                                     | 25                                | 9,0                       | 7,5                      | NLO25/4V/Z33/75  | 1.960,00 ₺                  |
|                                                                                     | 32                                | 11,5                      | 9,5                      | NLO32/4V/Z33/75  | 2.000,00 ₺                  |
|                                                                                     | 40                                | 15,0                      | 11,5                     | NLO40/4V/Z33/75  | 2.290,00 ₺                  |
|                                                                                     | 63                                | 22,0                      | 18,5                     | NLO63/4V/Z33/75  | 2.450,00 ₺                  |
|                                                                                     | 80                                | 30,0                      | 22,0                     | NLT80/4V/Z33/75  | 4.900,00 ₺                  |
|                                                                                     | 100                               | 37,0                      | 30,0                     | NLT100/4V/Z33/75 | 6.490,00 ₺                  |
|                                                                                     | 125                               | 45,0                      | 37,0                     | NLT125/4V/Z33/75 | 6.660,00 ₺                  |
|                                                                                     | 160                               | 75,0                      | 50,0                     | NLT160/4V/Z20/65 | 17.540,00 ₺                 |
|                                                                                     | 180                               | 90,0                      | 75,0                     | NLT180/4V/Z20/65 | 17.550,00 ₺                 |
|                                                                                     | 250                               | 132,0                     | 110,0                    | NLT250/4V/Z20/65 | 17.580,00 ₺                 |
|                                                                                     | 315                               | 132,0                     | 110,0                    | NLT315/4V/Z20/65 | 30.740,00 ₺                 |

## 20-160A, Kutulu Emniyet Şalterleri

Sarı/Kırmızı  
kilitlenebilir  
mekanizmalı

| 3 Kutuplu<br>Tamir-Bakım Şalterleri                                               | Sürekli<br>Akımı<br>I <sub>th</sub> (A.) | Anma Gücü<br>AC23<br>(kW) | Anma Gücü<br>AC3<br>(kW) | Ürün Kodu              | Liste<br>Fiyatı<br>(TL/Ad.) |
|-----------------------------------------------------------------------------------|------------------------------------------|---------------------------|--------------------------|------------------------|-----------------------------|
|  | 25                                       | 9,0                       | 7,5                      | RLO25/3PM-D1/Z33GB/71  | 1.430,00 ₺                  |
|                                                                                   | 32                                       | 11,5                      | 9,5                      | RLO32/3PM-D1/Z33GB/71  | 1.700,00 ₺                  |
|                                                                                   | 40                                       | 15,0                      | 11,5                     | RLO40/3PM-D1/Z33GB/71  | 1.890,00 ₺                  |
|                                                                                   | 63                                       | 22,0                      | 18,5                     | RLO63/3PM-D1/Z33GB/71  | 1.980,00 ₺                  |
|                                                                                   | 80                                       | 30,0                      | 22,0                     | RLT80/3PM-D2/Z33GB/71  | 3.980,00 ₺                  |
|                                                                                   | 100                                      | 37,0                      | 30,0                     | RLT100/3PM-D3/Z33GB/71 | 9.850,00 ₺                  |
|                                                                                   | 125                                      | 45,0                      | 37,0                     | RLT125/3PM-D3/Z33GB/71 | 10.360,00 ₺                 |
|                                                                                   | 160                                      | 75,0                      | 50,0                     | RLT160/3K4/Z20GB/65    | 35.000,00 ₺                 |

## 20-160A, Kutulu Emniyet Şalterleri

Sarı/Kırmızı  
kilitlenebilir  
mekanizmalı

| 4 Kutuplu<br>Tamir-Bakım Şalterleri                                                 | Sürekli<br>Akımı<br>I <sub>th</sub> (A.) | Anma Gücü<br>AC23<br>(kW) | Anma Gücü<br>AC3<br>(kW) | Ürün Kodu              | Liste<br>Fiyatı<br>(TL/Ad.) |
|-------------------------------------------------------------------------------------|------------------------------------------|---------------------------|--------------------------|------------------------|-----------------------------|
|  | 25                                       | 9,0                       | 7,5                      | RLO25/4PM-D1/Z33GB/71  | 1.960,00 ₺                  |
|                                                                                     | 32                                       | 11,5                      | 9,5                      | RLO32/4PM-D1/Z33GB/71  | 2.020,00 ₺                  |
|                                                                                     | 40                                       | 15,0                      | 11,5                     | RLO40/4PM-D1/Z33GB/71  | 2.320,00 ₺                  |
|                                                                                     | 63                                       | 22,0                      | 18,5                     | RLO63/4PM-D1/Z33GB/71  | 2.410,00 ₺                  |
|                                                                                     | 80                                       | 30,0                      | 22,0                     | RLT80/4PM-D2/Z33GB/71  | 4.580,00 ₺                  |
|                                                                                     | 100                                      | 37,0                      | 30,0                     | RLT100/4PM-D3/Z33GB/71 | 10.680,00 ₺                 |
|                                                                                     | 125                                      | 45,0                      | 37,0                     | RLT125/4PM-D3/Z33GB/71 | 11.180,00 ₺                 |
|                                                                                     | 160                                      | 75,0                      | 50,0                     | RLT160/4K4/Z20GB/65    | 42.000,00 ₺                 |

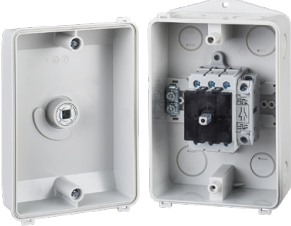
## 20-160A, Kutulu Emniyet Şalterleri

Sarı/Kırmızı  
kilitlenebilir  
mekanizmalı

| 6 Kutuplu<br>Tamir-Bakım Şalterleri                                                 | Sürekli<br>Akımı<br>I <sub>th</sub> (A.) | Anma Gücü<br>AC23<br>(kW) | Anma Gücü<br>AC3<br>(kW) | Ürün Kodu              | Liste<br>Fiyatı<br>(TL/Ad.) |
|-------------------------------------------------------------------------------------|------------------------------------------|---------------------------|--------------------------|------------------------|-----------------------------|
|  | 20                                       | 7,5                       | 5,5                      | RLT20/6PM-D1/Z33GB/71  | 2.450,00 ₺                  |
|                                                                                     | 25                                       | 9,0                       | 7,5                      | RLO25/6PM-D2/Z33GB/71  | 3.200,00 ₺                  |
|                                                                                     | 32                                       | 11,5                      | 9,5                      | RLO32/6PM-D2/Z33GB/71  | 3.780,00 ₺                  |
|                                                                                     | 40                                       | 15,0                      | 11,5                     | RLO40/6PM-D2/Z33GB/71  | 3.980,00 ₺                  |
|                                                                                     | 63                                       | 22,0                      | 18,5                     | RLO63/6PM-D2/Z33GB/71  | 4.850,00 ₺                  |
|                                                                                     | 80                                       | 30,0                      | 22,0                     | RLT80/6PM-D3/Z33GB/71  | 8.510,00 ₺                  |
|                                                                                     | 100                                      | 37,0                      | 30,0                     | RLT100/6PM-D3/Z33GB/71 | 16.300,00 ₺                 |
|                                                                                     | 125                                      | 45,0                      | 37,0                     | RLT125/6PM-D3/Z33GB/71 | 17.170,00 ₺                 |
|                                                                                     | 160                                      | 75,0                      | 50,0                     | RLT160/6K4/Z20GB/65    | 56.000,00 ₺                 |

## 20-160A, 1NA+1NC Yardımcı Kontaklı Kutulu Tamir-Bakım ve Emniyet Şalterleri

Sarı/Kırmızı kilitlenebilir mekanizmalı

| 3 Kutuplu Tamir-Bakım Şalterleri                                                  | Sürekli Akımı<br>I <sub>th</sub> [A.] | Anma Gücü<br>AC23<br>[kW] | Anma Gücü<br>AC3<br>[kW] | Ürün Kodu                  | Liste Fiyatı<br>[TL/Ad.] |
|-----------------------------------------------------------------------------------|---------------------------------------|---------------------------|--------------------------|----------------------------|--------------------------|
|  | 25                                    | 9,0                       | 7,5                      | RLO25/3PM-D1/Z33GB/71/H11  | 1.900,00 ₺               |
|                                                                                   | 32                                    | 11,5                      | 9,5                      | RLO32/3PM-D1/Z33GB/71/H11  | 2.170,00 ₺               |
|                                                                                   | 40                                    | 15,0                      | 11,5                     | RLO40/3PM-D1/Z33GB/71/H11  | 2.360,00 ₺               |
|                                                                                   | 63                                    | 22,0                      | 18,5                     | RLO63/3PM-D1/Z33GB/71/H11  | 2.450,00 ₺               |
|                                                                                   | 80                                    | 30,0                      | 22,0                     | RLT80/3PM-D2/Z33GB/71/H11  | 4.450,00 ₺               |
|                                                                                   | 100                                   | 37,0                      | 30,0                     | RLT100/3PM-D3/Z33GB/71/H11 | 10.320,00 ₺              |
|                                                                                   | 125                                   | 45,0                      | 37,0                     | RLT125/3PM-D3/Z33GB/71/H11 | 10.830,00 ₺              |
|                                                                                   | 160                                   | 75,0                      | 50,0                     | RLT160/3K4/Z20GB/65/H11    | 35.470,00 ₺              |

## 20-160A, 1NA+1NC Yardımcı Kontaklı Kutulu Tamir-Bakım ve Emniyet Şalterleri

Sarı/Kırmızı kilitlenebilir mekanizmalı

| 4 Kutuplu Tamir-Bakım Şalterleri                                                    | Sürekli Akımı<br>I <sub>th</sub> [A.] | Anma Gücü<br>AC23<br>[kW] | Anma Gücü<br>AC3<br>[kW] | Ürün Kodu                  | Liste Fiyatı<br>[TL/Ad.] |
|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------|--------------------------|----------------------------|--------------------------|
|  | 25                                    | 9,0                       | 7,5                      | RLO25/4PM-D1/Z33GB/71/H11  | 2.430,00 ₺               |
|                                                                                     | 32                                    | 11,5                      | 9,5                      | RLO32/4PM-D1/Z33GB/71/H11  | 2.490,00 ₺               |
|                                                                                     | 40                                    | 15,0                      | 11,5                     | RLO40/4PM-D1/Z33GB/71/H11  | 2.790,00 ₺               |
|                                                                                     | 63                                    | 22,0                      | 18,5                     | RLO63/4PM-D1/Z33GB/71/H11  | 2.880,00 ₺               |
|                                                                                     | 80                                    | 30,0                      | 22,0                     | RLT80/4PM-D2/Z33GB/71/H11  | 5.050,00 ₺               |
|                                                                                     | 100                                   | 37,0                      | 30,0                     | RLT100/4PM-D3/Z33GB/71/H11 | 11.150,00 ₺              |
|                                                                                     | 125                                   | 45,0                      | 37,0                     | RLT125/4PM-D3/Z33GB/71/H11 | 11.650,00 ₺              |
|                                                                                     | 160                                   | 75,0                      | 50,0                     | RLT160/4K4/Z20GB/65/H11    | 42.470,00 ₺              |

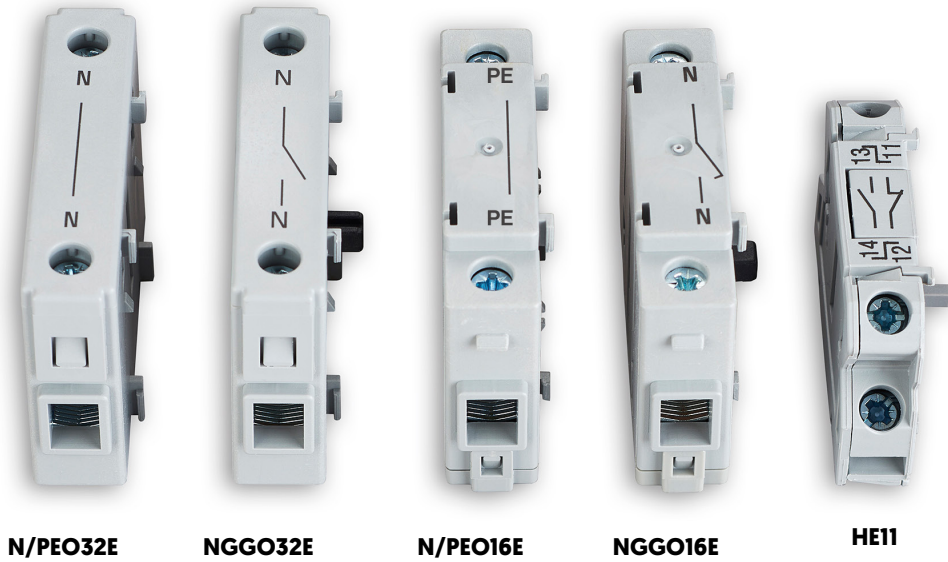
## 20-160A, 1NA+1NC Yardımcı Kontaklı Kutulu Tamir-Bakım ve Emniyet Şalterleri

Sarı/Kırmızı kilitlenebilir mekanizmalı

| 6 Kutuplu Tamir-Bakım Şalterleri                                                    | Sürekli Akımı<br>I <sub>th</sub> [A.] | Anma Gücü<br>AC23<br>[kW] | Anma Gücü<br>AC3<br>[kW] | Ürün Kodu                  | Liste Fiyatı<br>[TL/Ad.] |
|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------|--------------------------|----------------------------|--------------------------|
|  | 20                                    | 7,5                       | 5,5                      | RLT20/6PM-D1/Z33GB/H11     | 2.920,00 ₺               |
|                                                                                     | 25                                    | 9,0                       | 7,5                      | RLO25/6PM-D2/Z33GB/71/H11  | 3.670,00 ₺               |
|                                                                                     | 32                                    | 11,5                      | 9,5                      | RLO32/6PM-D2/Z33GB/71/H11  | 4.250,00 ₺               |
|                                                                                     | 40                                    | 15,0                      | 11,0                     | RLO40/6PM-D2/Z33GB/71/H11  | 4.450,00 ₺               |
|                                                                                     | 63                                    | 22,0                      | 18,5                     | RLO63/6PM-D2/Z33GB/71/H11  | 5.320,00 ₺               |
|                                                                                     | 80                                    | 30,0                      | 22,0                     | RLT80/6PM-D3/Z33GB/71/H11  | 8.980,00 ₺               |
|                                                                                     | 100                                   | 37,0                      | 30,0                     | RLT100/6PM-D3/Z33GB/71/H11 | 16.770,00 ₺              |
|                                                                                     | 125                                   | 45,0                      | 37,0                     | RLT125/6PM-D3/Z33GB/71/H11 | 17.640,00 ₺              |
|                                                                                     | 160                                   | 75,0                      | 50,0                     | RLT160/6K4/Z20GB/65/H11    | 56.470,00 ₺              |

# sontheimer Aksesuarlar

| Sürekli Akımı<br>I <sub>th</sub> (A.) | İletken Kesiti<br>mm <sup>2</sup> | Açıklama                                                      | Ürün Kodu | Liste Fiyatı<br>(TL/Ad.) |
|---------------------------------------|-----------------------------------|---------------------------------------------------------------|-----------|--------------------------|
| 16                                    | 16                                | Nötr Klemensi, 16A. Şalterler için                            | NGGO16E   | 350,00 ₺                 |
| 25                                    | 25                                | Nötr Klemensi, 25A. Şalterler için                            | NGGO25E   | 360,00 ₺                 |
| 32                                    | 32                                | Nötr Klemensi, 32A. Şalterler için                            | NGGO32E   | 380,00 ₺                 |
| 40                                    | 40                                | Nötr Klemensi, 40A. Şalterler için                            | NGGO40E   | 420,00 ₺                 |
| 63                                    | 63                                | Nötr Klemensi, 63A. Şalterler için                            | NGGO63E   | 420,00 ₺                 |
| 80                                    | 80                                | Nötr Klemensi, 80A. Şalterler için                            | NGGO80E   | 800,00 ₺                 |
| 125                                   | 125                               | Nötr Klemensi, 125A. Şalterler için                           | NGGO125E  | 930,00 ₺                 |
| 16                                    | 4                                 | Topraklama Klemensi, 16A. Şalterler için                      | N/PEO16E  | 350,00 ₺                 |
| 25                                    | 16                                | Topraklama Klemensi, 25A. Şalterler için                      | N/PEO25E  | 360,00 ₺                 |
| 32                                    | 16                                | Topraklama Klemensi, 32A. Şalterler için                      | N/PEO32E  | 380,00 ₺                 |
| 40                                    | 16                                | Topraklama Klemensi, 40A. Şalterler için                      | N/PEO40E  | 420,00 ₺                 |
| 63                                    | 35                                | Topraklama Klemensi, 63A. Şalterler için                      | N/PEO63E  | 420,00 ₺                 |
| 80                                    | 35                                | Topraklama Klemensi, 80A. Şalterler için                      | N/PEO80E  | 800,00 ₺                 |
| 125                                   | 50                                | Topraklama Klemensi, 125A. Şalterler için                     | N/PEO125E | 930,00 ₺                 |
| 250                                   | 135                               | Topraklama Klemensi, 250A. Şalterler için                     | N/PEO250E | 2.640,00 ₺               |
| 10                                    | 6                                 | Yardımcı Kontak, pano kapağına montaj 16-250A. şalterler için | HE11      | 470,00 ₺                 |
| 10                                    | 6                                 | Yardımcı Kontak, tabana montaj 16-250A. şalterler için        | HV11      | 470,00 ₺                 |



Listemizde bulunan NGGO nötr klemensleri tam zamanlı kontaklı olup, erken açan kontaklı nötr klemens ihtiyaçlarınız için NVGO kodu ile sipariş edebilirsiniz.

# Kalite Belgeleri

**CERTIFICATE OF COMPLIANCE**

**Certificate Number** 20151130-6171808  
**Report Reference** E171808-19991074  
**Issue Date** 2015-NOVEMBER-30

**Issued to:** SONTHEIMER ELEKTROSCHALTGERÄTE GMBH  
WENDELSTEIN STR.  
91126 SCHWABACH GERMANY

**This is to certify that**  
**representative samples of** MOTOR CONTROLLERS, MANUAL  
See Addendum Page

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 60947-4-1, Low Voltage Switchgear and Controlgear -  
Part 4-1: Controllers and Motor-Starters -  
Electromechanical Contactors and Motor-Starters -  
CSA C22.2 No. 60947-4-1, Part 1 General Rules, 2nd Edition (Low-Voltage Switchgear and Control Gear)  
CSA C22.2 No. 60947-4-1-14 Control Circuit Devices and  
Switching Elements - Electromechanical Control Circuit  
Devices

**Additional Information:** See [www.ul.com/usa/usa](http://www.ul.com/usa/usa) Online Certification Directory at  
[www.ul.com/usa/usa](http://www.ul.com/usa/usa) for additional information

Only those products bearing the UL Certification Mark should be considered as having been covered by UL's  
Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

*Signature*  
Authorized Signatory, Underwriter Laboratories, Inc.  
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UL is a registered trademark of Underwriter Laboratories, Inc. [www.ul.com/usa/usa](http://www.ul.com/usa/usa) or 1-800-451-UL or 1-800-451-UL (in Canada) or 1-800-451-UL (in the U.S.)



Page 1 of 2

# CERTIFICATE OF COMPLIANCE

Certificate Number: 2018012 F 171886  
Report Reference: E171886-18669102  
Issue Date: 2016-FEBRUARY-12

Issued to: SONTHEIMER ELEKTROSCHALTGERÄTE GMBH  
WENDELSTERNER STR. 5  
91126 SCHWABACH, GERMANY

This is to certify that  
representative samples of

MOTOR CONTROLS, MANUAL  
Refer to the Addendum Pages for Models

Have been investigated by UL in accordance with the  
Standards listed on this Certificate.

Standards for Safety:

UL 60947-1, UL C22 2 No. 60947-1-1, Low-Voltage  
Switchgear and Contingier - Part 1: General Rules,  
UL 60947-1-1, Low-voltage Schützgeräte und Contingier -  
Part 1: Allgemeine Regeln und Motor-Starters -  
Electromechanical Contactors and Motor Starters -  
UL C22 2 No. 60947-1-1, Low-Voltage Switchgear and  
Contingier - Part 4-1: Contactors and Motor-Starters -  
Electromechanical Contactors and Motor Starters

Additional Information:

See the UL Online Catalogue Directory at  
[www.ul.com/catalog](http://www.ul.com/catalog) for additional information

Only those products bearing the UL Certification Mark should be considered as being conform to U.S.  
Certification and Factory Service.

Look for the UL Certification Mark on the product.

*Signature*

Director of Engineering Services  
UL

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Page 1 of 1

Doc. 0001-01  
 18.7024

## IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IEC CB Scheme)

### CB TEST CERTIFICATE

#### Product

Name and address of the applicant

Plenky und-schneider  
 Schweizer Elektrotechnische GmbH  
 Industriestrasse 1  
 CH-1600 SCHWABACH  
 Germany

Name and address of the manufacturer

Swissener Elektrotechnische GmbH  
 Industriestrasse 1  
 CH-1600 SCHWABACH  
 Germany

Name and address of the factory

☐ Additional information on page 2  
 Schweizer Elektrotechnische GmbH  
 Industriestrasse 1  
 CH-1600 SCHWABACH  
 Germany

Rating and principal characteristics

30 mA, 5 A, 1000 V, 50 Hz, 4.0 V, 10 A, 8.0 A, 0.05 V and 12.5 A at 4.0 V, 50 Hz  
 AC-20  
 250 V, 16 A, 1000 V, 50 Hz  
 400 V, 16 A, 1000 V, 50 Hz  
 400 V, 16 A, 1000 V, 50 Hz  
 AC-3  
 250 V, 16 A, 1000 V, 50 Hz  
 400 V, 16 A, 1000 V, 50 Hz  
 400 V, 16 A, 1000 V, 50 Hz  
 Refer to additional data for ratings on testapparel  
 ACCESSORIES

Testmethod (s)

IEC 60335-1

Customer's Testing Facility (CTF) Design used

None

Model / Type tag

LOREL, LOREL LOUSE, LOREL

Additional information (if necessary this one has to be reported on CB Form 1)

☐ Additional information on page 2  
 This CB expires 2017 and 2021. This CB expires CB 16.49191 dated 2002-11-15.  
 CB 16.49191, IEC 60335-1, IEC 60335-2-1, IEC 60335-2-2, IEC 60335-2-3, IEC 60335-2-4

20060528

Signature of the applicant

Signature of the manufacturer

Signature of the factory

This CB Test Certificate is issued by the National Competent Body

DEKRA Certification GmbH  
 Wilhelmstr. 105, 40474 Dusseldorf, Netherlands

Date: 2018-03-18

Signatures: F. H. Schneider

page 1 of 1

|                                                                                                     |                                                                                |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|                   | Teil C: Eintrag<br><b>DE1-55531</b>                                            |
| DE: BATTERIE FÜR DIE AUTOMOBIL- UND MOTORFAHRZEUGE (BATTERIE FÜR DIE AUTOMOBIL- UND MOTORFAHRZEUGE) |                                                                                |
| DE: BATTERIE FÜR DIE AUTOMOBIL- UND MOTORFAHRZEUGE (BATTERIE FÜR DIE AUTOMOBIL- UND MOTORFAHRZEUGE) |                                                                                |
| DE: BATTERIE FÜR DIE AUTOMOBIL- UND MOTORFAHRZEUGE (BATTERIE FÜR DIE AUTOMOBIL- UND MOTORFAHRZEUGE) |                                                                                |
| <b>GB TEST CERTIFICATE CERTIFICAT D'ESSAI OC</b>                                                    |                                                                                |
| <b>Product</b><br>Produkt                                                                           | <b>Control</b><br>Kontrolle                                                    |
| <b>Name and address of the applicant</b><br>Name und Adresse des Antragstellers                     | <b>Responsible Certification Body</b><br>Verantwortliche Zertifizierungsstelle |
| <b>Name and address of the manufacturer</b><br>Name und Adresse des Herstellers                     | <b>Responsible Certification Body</b><br>Verantwortliche Zertifizierungsstelle |
| <b>Name and address of the factory</b><br>Name und Adresse der Fabrik                               | <b>Responsible Certification Body</b><br>Verantwortliche Zertifizierungsstelle |
| <b>Name and address of the laboratory</b><br>Name und Adresse des Labors                            | <b>Responsible Certification Body</b><br>Verantwortliche Zertifizierungsstelle |
| <b>Name and address of the manufacturer</b><br>Name und Adresse des Herstellers                     | <b>Responsible Certification Body</b><br>Verantwortliche Zertifizierungsstelle |
| <b>Name and address of the manufacturer</b><br>Name und Adresse des Herstellers                     | <b>Responsible Certification Body</b><br>Verantwortliche Zertifizierungsstelle |
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| <b>Name and address of the manufacturer</b><br>Name und Adresse des Herstellers                     | <b>Responsible Certification Body</b><br>Verantwortliche Zertifizierungsstelle |

[illegible]

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Test Report issued under the responsibility of:                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                          |
| <b>TEST REPORT</b><br><b>IEC 6047-3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                          |
| <b>Low-voltage switchgear and circuitbreaker</b><br><b>Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                          |
| Report Number .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 202722-CE-1                                                                                              |
| Date of Issue .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2015-03-23                                                                                               |
| Total number of pages .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 56                                                                                                       |
| Applicant's name .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sontherrner Elektroschaltanlagen GmbH                                                                    |
| Address .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Wittichen Str. 5<br>61238 Schwalbach                                                                     |
| Test specification:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                          |
| Standard .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | IEC 60474-2:2008 (Third Edition) + A1:2012 in conjunction with IEC 60461-2:2007 Fifth Edition + A2:2010  |
| Test procedure .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CB-Scheme                                                                                                |
| Non-standard test method .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | N/A                                                                                                      |
| Test Report Form No. ....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IEC6047_3C                                                                                               |
| Test Report Form (s) Originator .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | OVE                                                                                                      |
| Master TP .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dated 2013-05                                                                                            |
| Copyright © 2013 Wuthelshaus System for Conformity Testing and Certification of Electrotechnical Equipments and Components (WUTHESYS), Geneva, Switzerland. All rights reserved.<br>This publication may be reproduced in whole or in part for non-commercial purposes as long as the IEC's and/or referenced standards' names are mentioned. IECES does not accept any responsibility for the use of this publication for purposes other than those intended. If this Test Report is used by non-IEC member entities, the IEC/IEEE logo and the reference to the CB testing procedure shall be removed. |                                                                                                          |
| This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and approved to a CB Certificate issued by an NCB in accordance with IEC/IEE 92.                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                          |
| Test item description:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                          |
| Trade Mark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  <b>SONTHERRNER</b> |
| Manufacturer .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Sontherrner Elektroschaltanlagen GmbH                                                                    |
| Model/Type reference .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | J 1716... J 1718A... J 1718                                                                              |
| Rating(s) .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AC, 1000V/24 kV, 20 kA, 25 kA, 29 kA, 3 kA, 6 poles                                                      |
| Notes .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AC-23A, AC-3                                                                                             |

# Certificate of Compliance

Inventor by:  
**Sönlheimer Elektrohaltungsgeräte GmbH  
Wandelsteinstr. 9 • Schwabach 91126  
Germany**

This certificate confirms that representative samples of  
**NLRV - Motor Controllers, Manual**  
are adequate Proof for Product Designations.

They have been evaluated by us, in accordance with the Standard(s) indicated on this Certificate.

**UL standard / Edition & Issue Date 2022-05-31, UL 60943-4-1, 4th Ed., Issued Date: 2022-05-31**

Additional Information:  
See US Product-Cert at <https://www.ul.com> for additional information.

The Certificate of Compliance indicates that representative sampling of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page further references the Follow-Up Service Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under its Follow-Up Services.  
Look for the UL Certification Mark on the product.

**David Percec**  
US National Certification Program Manager

We warrant that the information provided herein was obtained from a review of all applicable information available to us at the time of issuance. This document is issued solely for informational purposes and does not constitute an offer or recommendation of insurance or other financial services. Please consult your broker for more information.

**Solutions**

**Folio # 1-3**

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Form ICS-0001-0001 Rev. 1-22**

[illegible]

**ZERTIFIKAT**

**söntheimer**

**ISO 9001:2015**

DEKRA Certification GmbH bescheinigt, dass die Organisation

**Söntheimer Elektroschaltgeräte GmbH**

Wendelsheider Straße 5, 81136 Schwaibach, Deutschland

**für den zertifizierten Bereich:**

Entwicklung, Herstellung und Vertrieb von Elektroschaltgeräten,  
Herstellung von Schaltanlagen

ein Qualitätsmanagementsystem entsprechend der oben genannten Norm eingeführt hat und aufrechterhält. Der Nachweis wurde mit Auditbericht Nr. A0238/2017 erbracht.

|                           |            |
|---------------------------|------------|
| Zertifikat Registrier-Nr. | S18175042  |
| Gültigkeit vom/bis:       | 13.10.2023 |
| Zertifikat gültig von:    | 13.10.2023 |
| Zertifikat gültig bis:    | 12.10.2024 |

*Signature* **DEKRA**

**Dr. Ralf Kriegl**  
DEKRA Certification GmbH | Handwerkskammer | Stuttgart, 01.07.2023

**IAF** **DAKS**  
International Accredited  
Certification Body

Dr. Ralf Kriegl  
DEKRA Certification GmbH | Handwerkskammer | Stuttgart, 01.07.2023  
[www.dekra-certification.de](http://www.dekra-certification.de)

Seite 1 von 1

***HEP DAHA İYİSİ!***

| sontheimer