



CATALOGUE

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SMART ELECTRIC GLOBAL SERVICE PROVIDER, MAKE LIFE BETTER

ABOUT HENGFENGYOU ELECTRIC

HENGFENGYOU ELECTRIC GROUP, is an electrical enterprise with transmission and distribution industry as its main business, integrating product research and development, manufacturing and trade. Designated suppliers for the world's top 500 enterprises. Its main products include power transformers, medium and low voltage switchgear, distribution panel ,circuit breakers, transmission tower ,Cable and other power distribution equipment. The group has five department: Transformer department, Panel department, power transmission tower department, cable department and electrical engineering department. HENGFENGYOU ELECTRIC GROUP has been working hard to provide the best transmission, distribution solutions for users all over the world.

Key figures

- ·Since: 1990
- · Revenue in 2018: 635 million yuan
- · 550 employees and 30 Electrical Engineers
- · 6 production sites in China
- · 6% of revenue is invested in R &D

Power distribution solutions that drive the global energy transition

With energy demand expanding in both developed and emerging countries, the challenge for HENGFENGYOU ELECTRIC GROUP is to connect energy with people. The group's teams work as closely as possible with projects and decision makers and design and propose technical and process solutions based on global user needs.





Hengfengyou Electric continues to increase investment of technical strength and modern equipment, optimizes the production process and process constantly, has established strict and perfect quality management standard, conducts strict monitoring for each process from raw material receiving inspection, production, finished product inspection and warehousing, finished products delivery to installation, never allows unqualified products to flow out, takes the idea of "Zero Defect" into each detail bit by bit, ensures each process be able to pass all standards, and manufactures perfect products carefully.

It is our excellent internal control standard and product quality assurance system that makes HengfengyouElectric Products achieve favor from more and more customers, and obtain affirmation from domestic and foreign customers.



CUSTOMER-ORIENTED CREATE VALUE FOR CUSTOMERS MAKEFRIENDS ALL OVER THE WORLD

CORE CORPORATE CULTURE THAT IS CUSTOMER-ORIENTED



OUR PRODUCTS

HENGFENGYOU ELECTRIC PRODUCTS

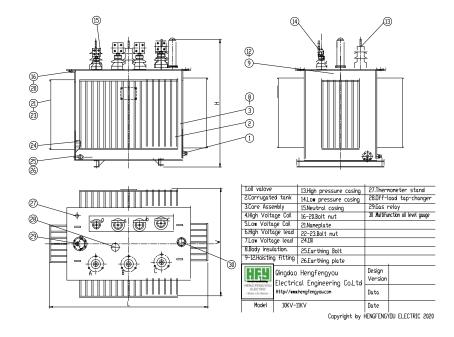
- · Fine manufacture and complete industrial chain.
- ·Scientific manufacture and management.
- · We adopt strict and precise quality supervision system to control fine raw material supply.
- · Industrial process and assembly details.
- · We use quality to ensure the realization and promotion of value.







- Product actual measurement is better than GB and IEC standards, CB CCC KEMA certification
- High reliability of operation verification in more than 50 countries and regions around the world
- Mainly used in 10KV distribution network, industrial and mining enterprises and civil building power supply and distribution system
- Our products are mainly exported to developing countries and regions in East Asia, Central Asia, Southeast Asia and South Asia
- Standards: IEC 60076 series, IEC 6013, IEC 60214-1, IEC60296;Gb1094-1996,GB/T6451-2008,GB/T7597-2007, etc





S9 Oil-immersed Transformer

| | 额定 | 电压及分接范围Rate | d | 联结组标号 | 空载损耗 | 负载损耗 | 空载电流 | 短路阻抗 |
|------------------|---------------|---|-------------------|-----------------------|------------------------|------------------|----------------------------|-------------------------------|
| 额定容量 Capacity | 高压 H.V(kv) | 高压分接范围 High pressure Tap range(%) | 低压 L.V (kv) | Vector GroupSymbol | NO-load loss (W) | Load loss (W) | 工权电机 NO-load current | Short circuit impedance |
| 30 | | | | | 130 | 630/600 | 2.3 | 4 |
| 50 | | | | | 170 | 910/870 | 2 | 4 |
| 63 | | | | | 200 | 1090/1040 | 1.9 | 4 |
| 80 | | | | | 250 | 1310/1250 | 1.9 | 4 |
| 100 | | | | | 290 | 1580/1500 | 1.8 | 4 |
| 125 | | | | | 340 | 1890/1800 | 1.7 | 4 |
| 160 | | | | | 400 | 2310/2200 | 1.6 | 4 |
| 200 | | | | | 480 | 2730/2600 | 1.5 | 4 |
| 250 | 11 10.5 | ± 5% | 0.4 | Dyn11 | 560 | 3200/3050 | 1.4 | 4 |
| 315 | 10 6.3 | $\pm 2x2.5\%$ | 0.4 | | 670 | 3830/3650 | 1.4 | 4 |
| 400 | 6 | <u> </u> | 0.09 | Yyn0 | 800 | 4520/4300 | 1.3 | 4 |
| 500 | | | | | 960 | 5410/5150 | 1.2 | 4 |
| 630 | | | | | 1200 | 6200 | 1.1 | 4.5 |
| 800 | | | | | 1400 | 7500 | 1 | 4.5 |
| 1000 | | | | | 1700 | 10300 | 1 | 4.5 |
| 1250 | | | | | 1950 | 12000 | 0.9 | 4.5 |
| 1600 | | | | | 2400 | 14500 | 0.8 | 4.5 |
| 2000 | | | | | 2840 | 18300 | 0.75 | 5.5 |
| 2500 | | | | | 3360 | 21200 | 0.7 | 5 . 5 |

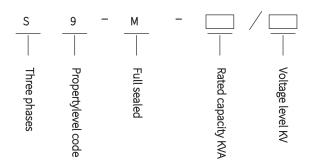
- Input voltage: 10KV

- Output voltage: 0.4kV
- Capacity: 30-2500kVA
- frequency: 50HZ
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements

Leading technology

- High pressure copper tape winding technology, improve lightning resistance
- Low voltage copper foil winding technology, high quality A class insulation material insulation
- Small magnetic leakage, high mechanical strength, strong short circuit resistance
 - Iron core 45° full oblique joint step laminated structure

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5°, and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve





S11 Oil-immersed Transformer

| 额定容量 Capacity | 额定电压及 高压 H. V (kv) | 分接范围Rated voltage 高压分接范围 High pressure | &Off-load 低压 L.V(kv) | 联结组标号 Vector GroupSymbol | 空载损耗 NO-load loss | 负载损耗 Load loss (W) | 空载电流 NO-load current | 短路阻抗 Short circuit |
|------------------|--------------------------|--|----------------------------|--------------------------------|-------------------------|--------------------------|----------------------------|--------------------------|
| 30 | ` ' | Tap range (%) | ` ' | | (W) 100 | 630/600 | (%) 1.5 | impedance(|
| 50 | | | | | 130 | 910/870 | 1. 3 | 4 |
| 63 | | | | | 150 | 1090/1040 | 1. 2 | 4 |
| 80 | | | | | 180 | 1310/1250 | 1. 2 | 4 |
| 100 | | | | | 200 | 1580/1500 | 1.1 | 4 |
| 125 | | | | | 240 | 1890/1800 | 1.1 | 4 |
| 160 | | | | | 280 | 2310/2200 | 1 | 4 |
| 200 | | | | | 340 | 2730/2600 | 1 | 4 |
| 250 | 11 10.5 | <u>±</u> 5% | 0.4 | | 400 | 3200/3050 | 0.9 | 4 |
| 315 | 10 6.3 | $\pm 2x2.5\%$ | 0.69 | Dyn11 | 480 | 3830/3650 | 0.9 | 4 |
| 400 | 6 | | | Yyn0 | 570 | 4520/4300 | 0.8 | 4 |
| 500 | | | | | 680 | 5410/5150 | 0.8 | 4 |
| 630 | | | | | 810 | 6200 | 0.6 | 4. 5 |
| 800 | | | | | 980 | 7500 | 0.6 | 4.5 |
| 1000 | | | | | 1150 | 10300 | 0.6 | 4. 5 |
| 1250 | | | | | 1360 | 12000 | 0.5 | 4. 5 |
| 1600 | | | | | 1640 | 14500 | 0.5 | 4. 5 |
| 2000 | | | | | 1940 | 18300 | 0.4 | 5 |
| 2500 | | | | | 2290 | 21200 | 0.4 | 5 |

- Input voltage: 10KV
- Output voltage: 0.4kV
- Capacity: 30-2500kVA
- frequency: 50HZ
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements

Leading technology

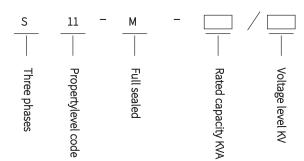
- High pressure copper tape winding technology, improve lightning resistance

- Low voltage copper foil winding technology, high quality A class insulation material insulation

- Small magnetic leakage, high mechanical strength, strong short circuit resistance

- Iron core 45° full oblique joint step laminated structure

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5°, and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve





S13 Oil-immersed Transformer

| 额定容量 Capacity | 额定电压及 高压 H. V (kv) | 分接范围Rated voltage 高压分接范围 High pressure Tap range (%) | &Off-load 低压 L.V(kv) | 联结组标号 Vector GroupSymbol | 空载损耗 NO-load loss (W) | 负载损耗 Load loss (W) | 空载电流 NO-load current | 短路阻抗 Short circuit impedance(|
|------------------|--------------------------|---|----------------------------|--------------------------------|--------------------------------|--------------------------|----------------------------|--|
| 30 | | | | | 80 | 630/600 | 1.3 | 4 |
| 50 | | | | | 100 | 910/870 | 1.1 | 4 |
| 63 | | | | | 110 | 1090/1040 | 1.1 | 4 |
| 80 | | | | | 130 | 1310/1250 | 1 | 4 |
| 100 | | | | | 150 | 1580/1500 | 1 | 4 |
| 125 | | | | | 170 | 1890/1800 | 0.95 | 4 |
| 160 | | | 0.4 | | 200 | 2310/2200 | 0.95 | 4 |
| 200 | | | | | 240 | 2730/2600 | 0.85 | 4 |
| 250 | 11 10.5 | <u>±</u> 5% | | | 290 | 3200/3050 | 0.85 | 4 |
| 315 | 10 6.3 | $\pm 2x2.5\%$ | 0. 4 | Dyn11 | 340 | 3830/3650 | 0.65 | 4 |
| 400 | 6 | <u> </u> | 0.03 | Yyn0 | 410 | 4520/4300 | 0.65 | 4 |
| 500 | | | | | 480 | 5410/5150 | 0.65 | 4 |
| 630 | | | | | 570 | 6200 | 0.6 | 4.5 |
| 800 | | | | | 700 | 7500 | 0.6 | 4.5 |
| 1000 | | | | | 830 | 10300 | 0.55 | 4.5 |
| 1250 | | | | | 970 | 12000 | 0.55 | 4.5 |
| 1600 | | | | | 1170 | 14500 | 0.5 | 4.5 |
| 2000 | | | | | 1550 | 18300 | 0.4 | 5 |
| 2500 | | | | | 1830 | 21200 | 0.4 | 5 |

- Input voltage: 10KV
- Output voltage: 0.4kV
- Capacity: 30-2500kVA
- frequency: 50HZ
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements

Leading technology

- High pressure copper tape winding technology, improve lightning resistance
- Low voltage copper foil winding technology, high quality A class insulation material insulation
- Small magnetic leakage, high mechanical strength, strong short circuit resistance
 - Iron core 45° full oblique joint step laminated structure

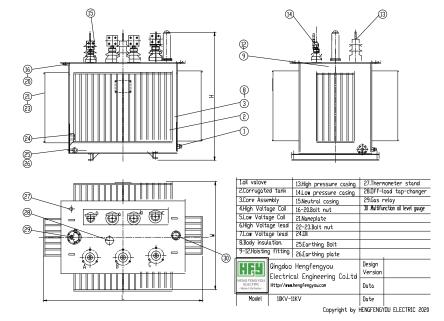
- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5°, and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve

| <u>s</u> | 13 | - | <u>M</u> | - | | / |
|--------------|--------------------|---|-------------|---|-------------------|------------------|
| Three phases | Propertylevel code | | Full sealed | | Rated capacity KV | Voltage level KV |





- Product actual measurement is better than GB and IEC standards, CB CCC KEMA SASO COC certification
- High reliability of operation verification in more than 50 countries and regions around the world
- Mainly used in 11KV distribution network, industrial and mining enterprises and civil building power supply and distribution system
- Products are mainly sold to Kuwait, UAE, Saudi Arabia, Qatar, Iraq, Oman and other Middle East countries and regions
- Standards: IEC 60076 series, IEC 6013, IEC 60214-1, IEC 60296; GB1094 series, GB/T6451-2015, GB/T7597-2007, etc





S9 Oil-immersed Transformer

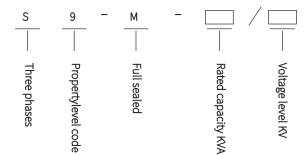
| | 额定 | 电压及分接范围Rate | d | 联结组标号 | 空载损耗 | 负载损耗 | 空载电流 | 短路阻抗 |
|------------------|---------------|---|-------------------|--|------------------------|------------------|----------------------------|-------------------------------|
| 额定容量 Capacity | 高压 H.V(kv) | 高压分接范围 High pressure Tap range(%) | 低压 L.V (kv) | भ्रह्महाका पु Vector GroupSymbol | NO-load loss (W) | Load loss (W) | 工权电机 NO-load current | Short circuit impedance |
| 30 | | | | • | 130 | 630/600 | 2. 3 | 4 |
| 50 | | | | | 170 | 910/870 | 2 | 4 |
| 63 | | | | | 200 | 1090/1040 | 1.9 | 4 |
| 80 | | | | | 250 | 1310/1250 | 1.9 | 4 |
| 100 | | | | | 290 | 1580/1500 | 1.8 | 4 |
| 125 | | | | | 340 | 1890/1800 | 1.7 | 4 |
| 160 | | | | | 400 | 2310/2200 | 1.6 | 4 |
| 200 | | | | | 480 | 2730/2600 | 1.5 | 4 |
| 250 | 11 10.5 | ±5% | 0.4 | Dyn11 | 560 | 3200/3050 | 1.4 | 4 |
| 315 | 10 6.3 | $\pm 2x2.5\%$ | 0.415 | | 670 | 3830/3650 | 1.4 | 4 |
| 400 | 6 | <u> </u> | 0.415 | Yyn0 | 800 | 4520/4300 | 1.3 | 4 |
| 500 | | | 0.44 | | 960 | 5410/5150 | 1.2 | 4 |
| 630 | | | | | 1200 | 6200 | 1.1 | 4.5 |
| 800 | | | | | 1400 | 7500 | 1 | 4.5 |
| 1000 | | | | | 1700 | 10300 | 1 | 4.5 |
| 1250 | | | | | 1950 | 12000 | 0.9 | 4.5 |
| 1600 | | | | | 2400 | 14500 | 0.8 | 4.5 |
| 2000 | | | | | 2840 | 18300 | 0.75 | 5.5 |
| 2500 | | | | | 3360 | 21200 | 0.7 | 5.5 |

- Input voltage: 11KV
- Output voltage: 0.4kV
- Capacity: 30-2500kVA
- frequency: 50HZ
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements

Leading technology

- High pressure copper tape winding technology, improve lightning resistance
- Low voltage copper foil winding technology, high quality A class insulation material insulation
- Small magnetic leakage, high mechanical strength, strong short circuit resistance
 - Iron core 45° full oblique joint step laminated structure

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5° , and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve





S11 Oil-immersed Transformer

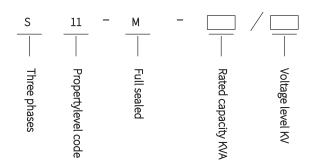
| | 额定电压及 | 分接范围Rated voltage | &Off-load | 联结组标号 | 空载损耗 | 负载损耗 | 空载电流 | 短路阻抗 | | | | |
|----------|------------|-------------------|-----------|-------------|---------|------------|---------|------------|-------|-----|-----------|-----|
| 额定容量 | 高压 | 高压分接范围 | 低压 | Vector | NO-load | Load loss | NO-load | Short | | | | |
| Capacity | H. V (kv) | High pressure | L. V (kv) | GroupSymbol | loss | (W) | current | circuit | | | | |
| | 11. V (KV) | Tap range (%) | L. V (KV) | Groupsymbol | (₩) | (W) | (%) | impedance(| | | | |
| 30 | | | | | 100 | 630/600 | 1.5 | 4 | | | | |
| 50 | | | | | 130 | 910/870 | 1.3 | 4 | | | | |
| 63 | | | | | 150 | 1090/1040 | 1.2 | 4 | | | | |
| 80 | | | | | 180 | 1310/1250 | 1.2 | 4 | | | | |
| 100 | | | | | 200 | 1580/1500 | 1.1 | 4 | | | | |
| 125 | | | | | 240 | 1890/1800 | 1.1 | 4 | | | | |
| 160 | | | | | 280 | 2310/2200 | 1 | 4 | | | | |
| 200 | | | | | 340 | 2730/2600 | 1 | 4 | | | | |
| 250 | 11 10.5 | 5 ±5% | 0.4 | | 400 | 3200/3050 | 0.9 | 4 | | | | |
| 315 | 10 6.3 | $\pm 2x2.5\%$ | | | | | | 0.415 | Dyn11 | 480 | 3830/3650 | 0.9 |
| 400 | 6 | <u> </u> | 0.415 | Yyn0 | 570 | 4520/4300 | 0.8 | 4 | | | | |
| 500 | | | 0. 44 | | 680 | 5410/5150 | 0.8 | 4 | | | | |
| 630 | | | | | 810 | 6200 | 0.6 | 4.5 | | | | |
| 800 | | | | | 980 | 7500 | 0.6 | 4.5 | | | | |
| 1000 | | | | | 1150 | 10300 | 0.6 | 4.5 | | | | |
| 1250 | | | | | 1360 | 12000 | 0.5 | 4.5 | | | | |
| 1600 | | | | | 1640 | 14500 | 0.5 | 4.5 | | | | |
| 2000 | | | | | 1940 | 18300 | 0.4 | 5 | | | | |
| 2500 | | | | | 2290 | 21200 | 0.4 | 5 | | | | |

Leading technology

- Input voltage: 11KV - Output voltage: 0.4kV
- Capacity: 30-2500kVA
- frequency: 50HZ
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements

- High pressure copper tape winding technology, improve lightning resistance
- Low voltage copper foil winding technology, high quality A class insulation material insulation
- Small magnetic leakage, high mechanical strength, strong short circuit resistance
 - Iron core 45° full oblique joint step laminated structure

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5°, and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve





S13 Oil-immersed Transformer

| 额定容量 Capacity | 高压 | 分接范围Rated voltage 高压分接范围 High pressure | 低压 | 联结组标号 Vector | 空载损耗 NO-load loss | 负载损耗 Load loss | 空载电流 NO-load | 短路阻抗 Short circuit |
|------------------|-----------|--|-----------|-----------------|-------------------------|-------------------|-----------------|--------------------------|
| | H. V (kv) | Tap range (%) | L. V (kv) | GroupSymbol | (W) | (W) | current | impedance(|
| 30 | | | | | 80 | 630/600 | 1.3 | 4 |
| 50 | | | | | 100 | 910/870 | 1.1 | 4 |
| 63 | | | | | 110 | 1090/1040 | 1.1 | 4 |
| 80 | | | | | 130 | 1310/1250 | 1 | 4 |
| 100 | | | | | 150 | 1580/1500 | 1 | 4 |
| 125 | | | | | 170 | 1890/1800 | 0.95 | 4 |
| 160 | | | 0.4 | | 200 | 2310/2200 | 0.95 | 4 |
| 200 | | | | | 240 | 2730/2600 | 0.85 | 4 |
| 250 | 11 10.5 | <u>±</u> 5% | | | 290 | 3200/3050 | 0.85 | 4 |
| 315 | 10 6.3 | $\pm 2x2.5\%$ | 0.415 | Dyn11 | 340 | 3830/3650 | 0.65 | 4 |
| 400 | 6 | <u> </u> | 0. 420 | Yyn0 | 410 | 4520/4300 | 0.65 | 4 |
| 500 | | | 0.44 | | 480 | 5410/5150 | 0.65 | 4 |
| 630 | | | | | 570 | 6200 | 0.6 | 4.5 |
| 800 | | | | | 700 | 7500 | 0.6 | 4. 5 |
| 1000 | | | | | 830 | 10300 | 0.55 | 4. 5 |
| 1250 | | | | | 970 | 12000 | 0.55 | 4. 5 |
| 1600 | | | | | 1170 | 14500 | 0.5 | 4. 5 |
| 2000 | | | | | 1550 | 18300 | 0.4 | 5 |
| 2500 | | | | | 1830 | 21200 | 0.4 | 5 |

- Input voltage: 11KV
- Output voltage: 0.4kV
- Capacity: 30-2500kVA
- frequency: 50HZ
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements

Leading technology

- High pressure copper tape winding technology, improve lightning resistance
- Low voltage copper foil winding technology, high quality A class insulation material insulation
- Small magnetic leakage, high mechanical strength, strong short circuit resistance
 - Iron core 45° full oblique joint step laminated structure

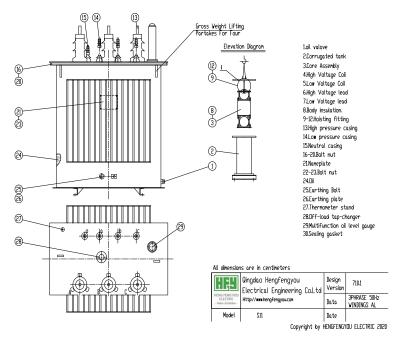
- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5°, and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve

| <u>s</u> | 13 | - | <u>M</u> | - | | / |
|--------------|--------------------|---|-------------|---|--------------------|------------------|
| Three phases | Propertylevel code | | Full sealed | | Rated capacity KVA | Voltage level KV |





- Low loss, product actual measurement better than GB and IEC standards, CE ROHS KEMA certification
- High reliability of operation verification in more than 50 countries and regions around the world
- Mainly used in 20KV distribution network, industrial and mining enterprises and civil building power supply and distribution system
- The main products for Spain, Germany, France, Italy, Greece, Iceland, Finland and other European customers to provide 2598 OEM
- Standards: IEC 60076 series, IEC 6013, IEC 60214-1, IEC 60296; GB1094 series, GB/T6451-2015, GB/T7597-2007, etc





S13 Oil-immersed Transformer

| 额定容量 Capacity | 额定电压及 高压 H. V (kv) | 2分接范围Rated voltage 高压分接范围 High pressure Tap range(%) | &Off-load 低压 L.V(kv) | 联结组标号 Vector GroupSymbol | 空载损耗 NO-load loss (W) | 负载损耗 Load loss (W) | 空载电流 NO-load current | 短路阻抗 Short circuit impedance(|
|------------------|--------------------------|---|----------------------------|--------------------------------|--------------------------------|--------------------------|----------------------------|--|
| 50 | | | | | 130 | 870 | 2.0 | 4 |
| 100 | | | | | 200 | 1500 | 1.6 | 4 |
| 125 | | | | | 240 | 1800 | 1.5 | 4 |
| 160 | | | 0.4 | | 290 | 2200 | 1.4 | 4 |
| 200 | | | | | 330 | 2600 | 1.3 | 4 |
| 250 | 20 | <u>±</u> 5% | | Dyn11 | 400 | 3050 | 1.2 | 4 |
| 315 | 20 | $\pm 2x2.5\%$ | 0. 4 0. 415 | | 480 | 3650 | 1.1 | 4 |
| 400 | | | 0. 420 0. 44 | Yyn0 | 570 | 4300 | 1.0 | 4.5 |
| 500 | | | 0.11 | | 680 | 5150 | 1.0 | 4.5 |
| 630 | | | | | 810 | 6200 | 0.9 | 4.5 |
| 800 | | | | | 980 | 7500 | 0.8 | 4.5 |
| 1000 | | | | | 1150 | 10300 | 0.7 | 4.5 |

- Input voltage: 20KV
- Output voltage: 0.4kV
- Capacity: 30-2500kVA
- frequency: 50HZ
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements

Leading technology

- High pressure copper tape winding technology, improve lightning resistance
- Low voltage copper foil winding technology, high quality A class insulation material insulation
- Small magnetic leakage, high mechanical strength, strong short circuit resistance
 - Iron core 45° full oblique joint step laminated structure

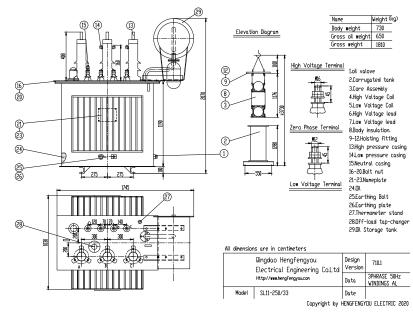
- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed $5^\circ,$ and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve

| <u>s</u> | 13 | - | <u>M</u> | - | | / |
|--------------|--------------------|---|-------------|---|--------------------|------------------|
| Three phases | Propertylevel code | | Full sealed | | Rated capacity KV/ | Voltage level KV |





- Actual measurement is better than GB and IEC standards, CB KEMA COC and other certifications
- More than 50 countries and regions around the world run verification of high reliability
- It is mainly used in 30KV distribution network of national power grid, power supply and distribution system of industrial and mining enterprises and civil buildings
- Products are mainly sold 12598 sets to Uganda, Ethiopia, Rwanda and other African countries
- Executive standard: IEC 60076 series, IEC 6013, IEC 60214-1, IEC 60296; GB1094 series, GB/T6451-2015, GB/T7597-2007, etc





S11 Oil-immersed Transformer

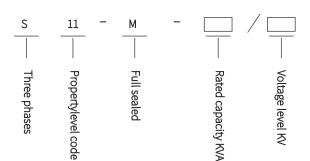
| <i>拓宁心</i> 目. | 额定电压及 | 分接范围Rated voltage | &Off-load | 联结组标号 | 空载损耗 | 负载损耗 | 空载电流 | 短路阻抗 |
|------------------|---------------|---|------------------|-----------------------|------------------------|------------------|--------------------|--------------------------------|
| 额定容量 Capacity | 高压 H.V(kv) | 高压分接范围 High pressure Tap range(%) | 低压 L.V(kv) | Vector GroupSymbol | NO-load loss (W) | Load loss (W) | NO-load current | Short circuit impedance(|
| 50 | | | | | 160 | 1200/1140 | 1.3 | 6. 5 |
| 100 | | | | | 230 | 2010/1910 | 1.1 | 6. 5 |
| 125 | | | | 270 | 2370/2260 | 1.1 | 6.5 | |
| 160 | | | | | 280 | 2820/2680 | 1.0 | 6. 5 |
| 200 | | | | | 340 | 3320/3160 | 1.0 | 6.5 |
| 250 | | | | | 400 | 3950/3760 | 0.95 | 6. 5 |
| 315 | | | 0.4 | | 480 | 4750/4530 | 0.95 | 6.5 |
| 400 | | | | | 580 | 5740/5470 | 0.85 | 6.5 |
| 500 | 31.5kV | ±5% | | | 680 | 6910/6580 | 0.85 | 6. 5 |
| 630 | 30kV | $\pm 2x2.5\%$ | | Dyn11 | 830 | 7860 | 0.65 | 6. 5 |
| 800 | 28.5kV | <u> </u> | 0. 415 0. 420 | Yyn0 | 980 | 9400 | 0.65 | 6. 5 |
| 1000 | | | 0.420 | | 1150 | 11500 | 0.65 | 6. 5 |
| 1250 | | | 31 11 | | 1400 | 13900 | 0.6 | 6. 5 |
| 1600 | | | | | 1690 | 16600 | 0.6 | 6. 5 |
| 2000 | | | | | 1990 | 19700 | 0.55 | 6. 5 |
| 2500 | | | | | 2360 | 23200 | 0.55 | 6. 5 |
| 3150 | | | | | 2810 | 27600 | 0.5 | 6. 5 |
| 4000 | | | | | 3360 | 33000 | 0.5 | 6. 5 |
| 5000 | | | | | 3970 | 39100 | 0.5 | 6. 5 |

- Input voltage: 30KV
- Output voltage: 0.4kV
- Capacity: 30-2500kVA
- frequency: 50HZ
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements

Leading technology

- High pressure copper tape winding technology, improve lightning resistance
- Low voltage copper foil winding technology, high quality A class insulation material insulation
- Small magnetic leakage, high mechanical strength, strong short circuit resistance
 - Iron core 45° full oblique joint step laminated structure

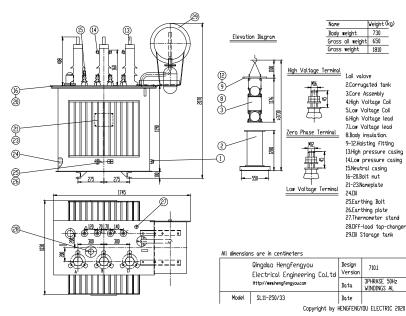
- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed $5^\circ,$ and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve







- Product actual measurement is better than GB and IEC standards, CB CCC KEMA SASO certification
- High reliability of operation verification in more than 50 countries and regions around the world - Mainly used in 33KV distribution network, industrial and mining enterprises and civil building power supply and distribution system
- 12,598 sets of products have been successfully sold to Uganda, Ethiopia, Tanzania, Zimbabwe, Ghana, South Africa, Kenya, Zambia, Rwanda and other countries.
- Standards: IEC 60076 series, IEC 6013, IEC 60214-1, IEC 60296; Gb1094-1996, GB/T6451-2008, GB/T7597-2007, etc





S9 Oil-immersed Transformer

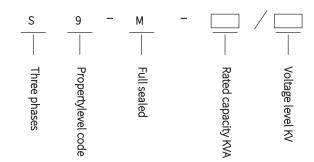
| 额定容量 Capacity | <u>额定电压及</u> 高压 H. V (kv) | 分接范围Rated voltage 高压分接范围 High pressure Tap range (%) | &Off-load 低压 L.V(kv) | 联结组标号 Vector GroupSymbol | 空载损耗 NO-load loss (W) | 负载损耗 Load loss (W) | 空载电流 NO-load current | 短路阻抗 Short circuit impedance(|
|------------------|---------------------------------|---|----------------------------|--------------------------------|--------------------------------|--------------------------|----------------------------|--|
| 50 | | | | | 210 | 1270/1210 | 2.0 | 6.5 |
| 100 | | | | | 290 | 2120/2020 | 1.8 | 6.5 |
| 125 | | | | | 340 | 2500/2380 | 1.7 | 6. 5 |
| 160 | | | | | 360 | 2970/2380 | 1.6 | 6.5 |
| 200 | | | | | 430 | 3500/3330 | 1.5 | 6.5 |
| 250 | | | | | 510 | 4160/3960 | 1.4 | 6.5 |
| 315 | | | | | 610 | 5010/4770 | 1.4 | 6. 5 |
| 400 | | | | | 730 | 5050/5760 | 1.3 | 6.5 |
| 500 | 33kV | <u>±</u> 5% | | | 860 | 7280/6930 | 1.2 | 6. 5 |
| 630 | 35kV | $\pm 2x2.5\%$ | 0.4 | Dyn11 | 1040 | 8280 | 1.1 | 6.5 |
| 800 | 38.5kV | <u> </u> | 0. 415 0. 420 | Yyn0 | 1230 | 9900 | 1.0 | 6. 5 |
| 1000 | | | 0.44 | | 1440 | 12150 | 1.0 | 6.5 |
| 1250 | | | | | 1760 | 14670 | 0.9 | 6. 5 |
| 1600 | | | | | 2120 | 17550 | 0.8 | 6.5 |
| 2000 | | | | | 2490 | 20740 | 0.8 | 6. 5 |
| 2500 | | | | | 2950 | 24420 | 0.8 | 6.5 |
| 3150 | | | | | 3510 | 29050 | 0.7 | 6. 5 |
| 4000 | | | | | 4200 | 34940 | 0.7 | 6.5 |
| 5000 | | | | | 4960 | 41160 | 0.7 | 6.5 |

- Input voltage: 33KV
- Output voltage: 0.4kV
- Capacity: 30-31500kVA
- frequency: 50HZ
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements

Leading technology

- High pressure copper tape winding technology, improve lightning resistance
- Low voltage copper foil winding technology, high quality A class insulation material insulation
- Small magnetic leakage, high mechanical strength, strong short circuit resistance
 - Iron core 45° full oblique joint step laminated structure

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5°, and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve





S11 Oil-immersed Transformer

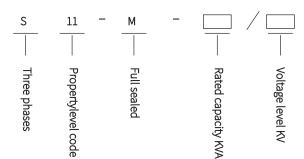
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 额定容量 Capacity | <u>额定电压及</u> 高压 H. V (kv) | 分接范围Rated voltage 高压分接范围 High pressure Tap range (%) | &Off-load 低压 L.V(kv) | 联结组标号 Vector GroupSymbol | 空载损耗 NO-load loss (W) | 负载损耗 Load loss (W) | 空载电流 NO-load current | 短路阻抗 Short circuit impedance(|
|---|--|---------------------------------|---|----------------------------|--------------------------------|---|---|--|---|
| $\begin{bmatrix} 4000 \\ 0 \end{bmatrix}$ | 50 100 125 160 200 250 315 400 500 630 800 1000 1250 1600 2000 2500 3150 | 33kV 35kV 38. 5kV | Tap range (%) | 0. 4 0. 415 0. 420 | Dyn11 | 160 230 270 280 340 400 480 580 680 830 980 1150 1400 1690 1990 2360 2810 | 1200/1140 2010/1910 2370/2260 2820/2680 3320/3160 3950/3760 4750/4530 5740/5470 6910/6580 7860 9400 11500 13900 16600 19700 23200 27600 | 1. 3 1. 1 1. 1 1. 0 1. 0 0. 95 0. 95 0. 85 0. 65 0. 65 0. 65 0. 6 0. 6 0. 5 0. 55 0. 55 | 6. 5 6. 5 6. 5 6. 5 6. 5 6. 5 6. 5 6. 5 |

- Input voltage: 33KV
- Output voltage: 0.4kV
- Capacity: 30-31500kVA
- frequency: 50HZ
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements

Leading technology

- High pressure copper tape winding technology, improve lightning resistance
- Low voltage copper foil winding technology, high quality A class insulation material insulation
- Small magnetic leakage, high mechanical strength, strong short circuit resistance
 - Iron core 45° full oblique joint step laminated structure

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5°, and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve





S13 Oil-immersed Transformer

| 额定容量 Capacity | <u>额定电压及</u> 高压 H. V (kv) | 分接范围Rated voltage 高压分接范围 High pressure Tap range (%) | &Off-load 低压 L.V(kv) | 联结组标号 Vector GroupSymbol | 空载损耗 NO-load loss (W) | 负载损耗 Load loss (W) | 空载电流 NO-load current | 短路阻抗 Short circuit impedance(|
|------------------|---------------------------------|---|----------------------------|--------------------------------|--------------------------------|--------------------------|----------------------------|--|
| 50 | | | | | 130 | 1200/1140 | 1.3 | 6.5 |
| 100 | | | | | 185 | 2010/1910 | 1.1 | 6.5 |
| 125 | | | | | 215 | 2370/2260 | 1.1 | 6.5 |
| 160 | | | | | 225 | 2820/2680 | 1.0 | 6.5 |
| 200 | | | | | 270 | 3320/3160 | 1.0 | 6.5 |
| 250 | | | | | 320 | 3950/3760 | 0.95 | 6.5 |
| 315 | | | | | 385 | 4750/4530 | 0.95 | 6. 5 |
| 400 | | | | | 465 | 5740/5470 | 0.85 | 6.5 |
| 500 | 33kV | ±5% | | | 545 | 6910/6580 | 0.85 | 6. 5 |
| 630 | 35kV | $\pm 2x2.5\%$ | 0.4 | Dyn11 | 665 | 7860 | 0.65 | 6. 5 |
| 800 | 38.5kV | | 0. 415 0. 420 | Yyn0 | 785 | 9400 | 0.65 | 6. 5 |
| 1000 | | | 0.44 | | 920 | 11500 | 0.65 | 6.5 |
| 1250 | | | | | 1120 | 13900 | 0.6 | 6. 5 |
| 1600 | | | | | 1350 | 16600 | 0.6 | 6.5 |
| 2000 | | | | | 1590 | 19700 | 0. 55 | 6. 5 |
| 2500 | | | | | 1890 | 23200 | 0. 55 | 6. 5 |
| 3150 | | | | | 2250 | 27600 | 0.5 | 6. 5 |
| 4000 | | | | | 2690 | 33000 | 0.5 | 6. 5 |
| 5000 | | | | | 3180 | 39100 | 0.5 | 6. 5 |

- Input voltage: 33KV
- Output voltage: 0.4kV
- Capacity: 30-31500kVA
- frequency: 50HZ
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements

Leading technology

- High pressure copper tape winding technology, improve lightning resistance
- Low voltage copper foil winding technology, high quality A class insulation material insulation
- Small magnetic leakage, high mechanical strength, strong short circuit resistance
 - Iron core 45° full oblique joint step laminated structure

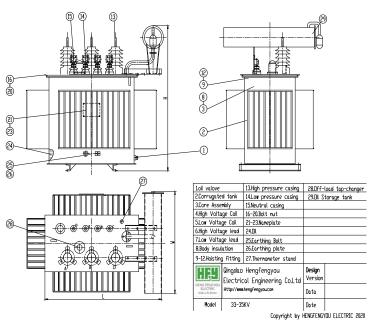
- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5°, and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve

| <u>s</u> | 13 | _ | <u>M</u> | - | | / |
|--------------|--------------------|---|-------------|---|--------------------|------------------|
| Three phases | Propertylevel code | | Full sealed | | Rated capacity KVA | Voltage level KV |





- Product actual measurement is better than GB and IEC standards, CB CCC KEMA certification
- High reliability of operation verification in more than 50 countries and regions around the world
- Mainly used in power supply and distribution system of 35KV distribution network, industrial and mining enterprises and civil buildings
- Our products are mainly exported to developing countries and regions in East Asia, Central Asia, Southeast Asia and South Asia
- Standards: IEC 60076 series, IEC 6013, IEC 60214-1, IEC 60296; Gb1094-1996, GB/T6451-2008, GB/T7597-2007, etc





S9 Oil-immersed Transformer

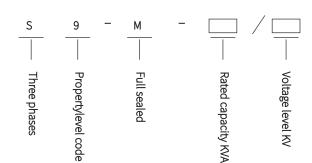
| 额定容量 Capacity | <u>额定电压及</u> 高压 H. V (kv) | 分接范围Rated voltage 高压分接范围 High pressure Tap range (%) | &Off-load 低压 L.V(kv) | 联结组标号 Vector GroupSymbol | 空载损耗 NO-load loss (W) | 负载损耗 Load loss (W) | 空载电流 NO-load current | 短路阻抗 Short circuit impedance(|
|------------------|---------------------------------|---|----------------------------|--------------------------------|--------------------------------|--------------------------|----------------------------|--|
| 50 | | | | | 210 | 1270/1210 | 2.0 | 6.5 |
| 100 | | | | | 290 | 2120/2020 | 1.8 | 6.5 |
| 125 | | | | | 340 | 2500/2380 | 1.7 | 6.5 |
| 160 | | | | | 360 | 2970/2380 | 1.6 | 6.5 |
| 200 | | | | | 430 | 3500/3330 | 1.5 | 6.5 |
| 250 | | | | | 510 | 4160/3960 | 1.4 | 6.5 |
| 315 | | | | | 610 | 5010/4770 | 1.4 | 6.5 |
| 400 | | | | | 730 | 5050/5760 | 1.3 | 6.5 |
| 500 | 33kV | <u>±</u> 5% | | | 860 | 7280/6930 | 1.2 | 6. 5 |
| 630 | 35kV | $\pm 2x2.5\%$ | 0.4 | Dyn11 | 1040 | 8280 | 1.1 | 6.5 |
| 800 | 38.5kV | <u> </u> | | Yyn0 | 1230 | 9900 | 1.0 | 6. 5 |
| 1000 | | | | | 1440 | 12150 | 1.0 | 6.5 |
| 1250 | | | | | 1760 | 14670 | 0.9 | 6. 5 |
| 1600 | | | | | 2120 | 17550 | 0.8 | 6.5 |
| 2000 | | | | | 2490 | 20740 | 0.8 | 6.5 |
| 2500 | | | | | 2950 | 24420 | 0.8 | 6.5 |
| 3150 | | | | | 3510 | 29050 | 0.7 | 6.5 |
| 4000 | | | | | 4200 | 34940 | 0.7 | 6.5 |
| 5000 | | | | | 4960 | 41160 | 0.7 | 6. 5 |

- Input voltage: 35KV
- Output voltage: 0.4kV
- Capacity: 30-31500kVA
- frequency: 50HZ
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements

Leading technology

- High pressure copper tape winding technology, improve lightning resistance
- Low voltage copper foil winding technology, high quality A class insulation material insulation
- Small magnetic leakage, high mechanical strength, strong short circuit resistance
 - Iron core 45° full oblique joint step laminated structure

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5° , and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve





S11 Oil-immersed Transformer

| 额定容量 Capacity | <u>额定电压及</u> 高压 H. V (kv) | 分接范围Rated voltage 高压分接范围 High pressure Tap range (%) | &Off-load 低压 L.V(kv) | 联结组标号 Vector GroupSymbol | 空载损耗 NO-load loss (W) | 负载损耗 Load loss (W) | 空载电流 NO-load current | 短路阻抗 Short circuit impedance(|
|------------------|---------------------------------|---|----------------------------|--------------------------------|--------------------------------|--------------------------|----------------------------|--|
| 50 | | | | | 160 | 1200/1140 | 1.3 | 6. 5 |
| 100 | | | | | 230 | 2010/1910 | 1.1 | 6.5 |
| 125 | | | | | 270 | 2370/2260 | 1.1 | 6.5 |
| 160 | | | | | 280 | 2820/2680 | 1.0 | 6.5 |
| 200 | | | | | 340 | 3320/3160 | 1.0 | 6.5 |
| 250 | | | | | 400 | 3950/3760 | 0.95 | 6.5 |
| 315 | | | | | 480 | 4750/4530 | 0.95 | 6. 5 |
| 400 | | | | | 580 | 5740/5470 | 0.85 | 6. 5 |
| 500 | 33kV | <u>±</u> 5% | | | 680 | 6910/6580 | 0.85 | 6.5 |
| 630 | 35kV | $\pm 2x2.5\%$ | 0.4 | Dyn11 | 830 | 7860 | 0.65 | 6. 5 |
| 800 | 38.5kV | <u> </u> | | Yyn0 | 980 | 9400 | 0.65 | 6.5 |
| 1000 | | | | | 1150 | 11500 | 0.65 | 6. 5 |
| 1250 | | | | | 1400 | 13900 | 0.6 | 6. 5 |
| 1600 | | | | | 1690 | 16600 | 0.6 | 6. 5 |
| 2000 | | | | | 1990 | 19700 | 0.55 | 6. 5 |
| 2500 | | | | | 2360 | 23200 | 0.55 | 6. 5 |
| 3150 | | | | | 2810 | 27600 | 0.5 | 6.5 |
| 4000 | | | | | 3360 | 33000 | 0.5 | 6. 5 |
| 5000 | | | | | 3970 | 39100 | 0.5 | 6. 5 |

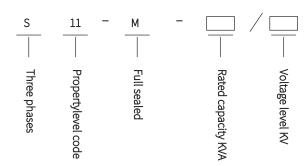
- Input voltage: 35KV

- Output voltage: 0.4kV
- Capacity: 30-31500kVA
- frequency: 50HZ
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements

Leading technology

- High pressure copper tape winding technology, improve lightning resistance
- Low voltage copper foil winding technology, high quality A class insulation material insulation
- Small magnetic leakage, high mechanical strength, strong short circuit resistance
 - Iron core 45° full oblique joint step laminated structure

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5°, and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve





S13 Oil-immersed Transformer

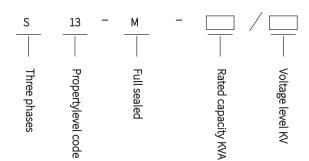
| 额定容量 Capacity | 额定电压及 高压 H.V(kv) | 分接范围Rated voltage 高压分接范围 High pressure Tap range (%) | &Off-load 低压 L.V(kv) | 联结组标号 Vector GroupSymbol | 空载损耗 NO-load loss (W) | 负载损耗 Load loss (W) | 空载电流 NO-load current | 短路阻抗 Short circuit impedance(|
|------------------|------------------------|---|----------------------------|--------------------------------|--------------------------------|--------------------------|----------------------------|--|
| 50 100 | | | | | 130 | 1200/1140 | 1.3 | 6. 5 6. 5 |
| 125 | | | | | 185 215 | 2010/1910 2370/2260 | 1. 1 1. 1 | 6.5 |
| 160 | | | | | 225 | 2820/2680 | 1.0 | 6.5 |
| 200 | | | | | 270 | 3320/3160 | 1.0 | 6.5 |
| 250 | | | | | 320 | 3950/3760 | 0.95 | 6.5 |
| 315 | | | | | 385 | 4750/4530 | 0.95 | 6. 5 |
| 400 | | | | | 465 | 5740/5470 | 0.85 | 6.5 |
| 500 | 33kV | ±5% | | | 545 | 6910/6580 | 0.85 | 6.5 |
| 630 | 35kV | $\pm 2x2.5\%$ | 0.4 | Dyn11 | 665 | 7860 | 0.65 | 6.5 |
| 800 | 38.5kV | _ | | Yyn0 | 785 | 9400 | 0.65 | 6.5 |
| 1000 | | | | | 920 | 11500 | 0.65 | 6.5 |
| 1250 | | | | | 1120 | 13900 | 0.6 | 6.5 |
| 1600 | | | | | 1350 | 16600 | 0.6 | 6.5 |
| 2000 2500 | | | | | 1590 | 19700 | 0.55 | 6. 5 6. 5 |
| 3150 | | | | | 1890 2250 | 23200 27600 | 0. 55 0. 5 | 6.5 |
| 4000 | | | | | 2690 | 33000 | 0. 5 | 6.5 |
| 5000 | | | | | 3180 | 39100 | 0.5 | 6.5 |

- Input voltage: 35KV
- Output voltage: 0.4kV
- Capacity: 30-31500kVA
- frequency: 50HZ
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements

Leading technology

- High pressure copper tape winding technology, improve lightning resistance
- Low voltage copper foil winding technology, high quality A class insulation material insulation
- Small magnetic leakage, high mechanical strength, strong short circuit resistance
 - Iron core 45° full oblique joint step laminated structure

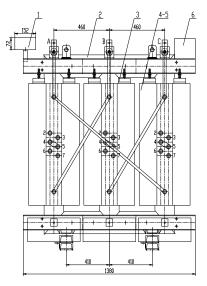
- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5°, and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve

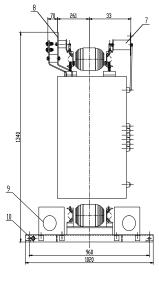






- Actual measurement is better than GB and IEC standards, CB, CCC, KEMA SASO and other certification
- Better safety excellent fire performance, F1 class
- High lightning shock resistance level (95kV for 10kV products)
- Equipped with perfect temperature protection control system, it can operate at 120% rated load under forced air cooling condition
- Global operation verified high reliability, has been exported to more than 50 countries and regions
- Mainly used in 11KV urban distribution network, industrial and mining enterprises and civil building power supply and distribu-
- 5793 sets of products have been successfully sold to Kazakhstan, Uzbekistan, Pakistan, Afghanistan, Bangladesh, Indonesia, Vietnam and other countries
- Implementation standard: IEC 60076 series, GB1094 series, GB/T6451-2008
- The shell material is aluminum alloy, cold rolled steel plate, stainless steel, etc. (protection grade IP20, IP23, etc.)





- Resistance thei noneter Iron core assembly Body insulation High voltage winding Low voltage winding

- Nameplate group High voltage leads Low voltage leads



SCB10 Dry Type Transformer

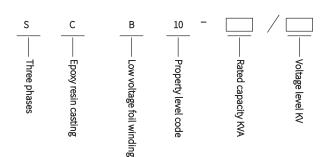
| 额定容量 Capacity | 额定电压及 高压 H.V(kv) | 分接范围Rated voltage 高压分接范围 High pressure | &Off-load 低压 L.V(kv) | 联结组标号 Vector GroupSymbol | 空载损耗 NO-load loss | 负载损耗 Load loss (W) | 空载电流 NO-load current | 短路阻抗 Short circuit |
|------------------|------------------------|--|----------------------------|--------------------------------|-------------------------|--------------------------|----------------------------|--------------------------|
| 30 | | Tap range (%) | | | (W) 190 | F级绝缘 710 | (%) 2 | impedance(|
| 50 | | | | | 270 | 710 1000 | 2 | 4 |
| 80 | | ±5% | | | 370 | 1380 | 1.5 | 4 |
| 100 | | $\pm 2.5\%$ | | | 400 | 1570 | 1. 5 | 4 |
| 125 | | _1, 0,0 | | | 470 | 1850 | 1. 3 | 4 |
| 160 | | | | | 540 | 2130 | 1.3 | 4 |
| 200 | | | | | 620 | 2530 | 1.1 | 4 |
| 250 | | | | | 720 | 2760 | 1.1 | 4 |
| 315 | 11 10.5 | | 0.4 | | 880 | 3470 | 1 | 4 |
| 400 | 10 6.6 | | 0.4 | Dyn11 | 980 | 3990 | 1 | 4 |
| 500 | 6.3 6 | | 0.03 | Yyn0 | 1160 | 4880 | 1 | 4 |
| 630 | | <u>±</u> 5% | | | 1340 | 5880 | 0.85 | 4 |
| 630 | | $\pm 2x2.5\%$ | | | 1300 | 5960 | 0.85 | 6 |
| 800 | | <u> </u> | | | 1520 | 6960 | 0.85 | 6 |
| 1000 | | | | | 1770 | 8130 | 0.85 | 6 |
| 1250 | | | | | 2090 | 9100 | 0.85 | 6 |
| 1600 | | | | | 2450 | 11700 | 0.85 | 6 |
| 2000 | | | | | 3050 | 14400 | 0.7 | 6 |
| 2500 | | | | | 3600 | 17100 | 0.7 | 6 |

- Input voltage: 10KV
- Output voltage: 0.4kV
- Capacity: 30-2500kVA
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements

Leading technology

- High pressure copper tape winding technology, flame retardant formula vacuum pouring
 - Low pressure copper foil winding technology, thermosetting epoxy prepreg cloth insulation
 - High quality iron core 45° full oblique joint step laminated structure

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed $5^\circ,$ and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve





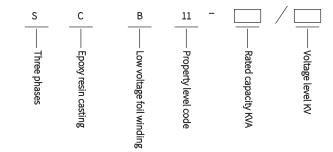
SCB11 Dry Type Transformer

| | 额定 | 电压及分接范围Rate | d | 联结组标号 | 空载损耗 | 负载损耗 | 空载电流 | 短路阻抗 |
|----------|-----------------|---------------|------|-----------------|---------|-----------|---------|-----------|
| 额定容量 | 高压 | 高压分接范围 | 低压 | 联组组称与 Vector | NO-load | Load loss | NO-load | Short |
| Capacity | 同止 H. V (kv) | High pressure | L.V | GroupSymbol | loss | (W) | current | circuit |
| | 11. V (KV) | Tap range (%) | (kv) | Groupsymbor | (₩) | F级绝缘 | (%) | impedance |
| 30 | | | | | 170 | 710 | 2 | 4 |
| 50 | | | | | 240 | 1000 | 2 | 4 |
| 80 | | $\pm 5\%$ | | | 330 | 1380 | 1.5 | 4 |
| 100 | | $\pm 2.5\%$ | | | 360 | 1570 | 1.5 | 4 |
| 125 | | | | | 420 | 1850 | 1.3 | 4 |
| 160 | | | | | 490 | 2130 | 1.3 | 4 |
| 200 | | | | | 560 | 2530 | 1.1 | 4 |
| 250 | | | | | 650 | 2760 | 1.1 | 4 |
| 315 | 11 10.5 | | 0.4 | | 790 | 3470 | 1 | 4 |
| 400 | 10 6.6 | | 0.69 | Dyn11 | 880 | 3990 | 1 | 4 |
| 500 | 6.36 | | 0.03 | Yyn0 | 1045 | 4880 | 1 | 4 |
| 630 | | ±5% | | | 1210 | 5880 | 0.85 | 4 |
| 630 | | $\pm 2x2.5\%$ | | | 1170 | 5960 | 0.85 | 6 |
| 800 | | <u> </u> | | | 1370 | 6960 | 0.85 | 6 |
| 1000 | | | | | 1590 | 8130 | 0.85 | 6 |
| 1250 | | | | | 1880 | 9100 | 0.85 | 6 |
| 1600 | | | | | 2205 | 11700 | 0.85 | 6 |
| 2000 | | | | | 2745 | 14400 | 0.7 | 6 |
| 2500 | | | | | 3240 | 17100 | 0.7 | 6 |

Leading technology

- Input voltage: 10KV
- Output voltage: 0.4kV
- Capacity: 30-2500kVA
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements
- High pressure copper tape winding technology, flame retardant formula vacuum pouring
 - Low pressure copper foil winding technology, thermosetting epoxy prepreg cloth insulation
 - High quality iron core 45° full oblique joint step laminated structure

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5°, and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve





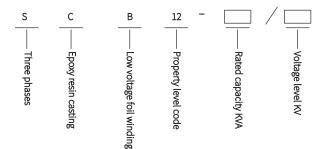
SCB12 Dry Type Transformer

| | 额定 | 电压及分接范围Rate | d | 联结组标号 | 空载损耗 | 负载损耗 | 空载电流 | 短路阻抗 |
|----------|------------|---------------|------|-----------------|---------|-----------|---------|-----------|
| 额定容量 | 高压 | 高压分接范围 | 低压 | 联组组称与 Vector | NO-load | Load loss | NO-load | Short |
| Capacity | H. V (kv) | High pressure | L.V | GroupSymbol | loss | (W) | current | circuit |
| | 11. V (KV) | Tap range (%) | (kv) | or oupsymbor | (W) | F级绝缘 | (%) | impedance |
| 30 | | | | | 150 | 710 | 2 | 4 |
| 50 | | | | | 215 | 1000 | 2 | 4 |
| 80 | | ±5% | | | 295 | 1380 | 1.5 | 4 |
| 100 | | $\pm 2.5\%$ | | | 320 | 1570 | 1.5 | 4 |
| 125 | | | | | 375 | 1850 | 1.3 | 4 |
| 160 | | | | | 430 | 2130 | 1.3 | 4 |
| 200 | | | | | 495 | 2530 | 1.1 | 4 |
| 250 | | | | | 575 | 2760 | 1.1 | 4 |
| 315 | 11 10.5 | | 0.4 | | 705 | 3470 | 1 | 4 |
| 400 | 10 6.6 | | 0.4 | Dyn11 | 785 | 3990 | 1 | 4 |
| 500 | 6.36 | | 0.09 | Yyn0 | 930 | 4880 | 1 | 4 |
| 630 | | <u>±</u> 5% | | | 1070 | 5880 | 0.85 | 4 |
| 630 | | $\pm 2x2.5\%$ | | | 1040 | 5960 | 0.85 | 6 |
| 800 | | <u> </u> | | | 1215 | 6960 | 0.85 | 6 |
| 1000 | | | | | 1415 | 8130 | 0.85 | 6 |
| 1250 | | | | | 1670 | 9100 | 0.85 | 6 |
| 1600 | | | | | 1960 | 11700 | 0.85 | 6 |
| 2000 | | | | | 2440 | 14400 | 0.7 | 6 |
| 2500 | | | | | 2880 | 17100 | 0.7 | 6 |

Leading technology

- Input voltage: 10KV
- Output voltage: 0.4kV
- Capacity: 30-2500kVA
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements
- High pressure copper tape winding technology, flame retardant formula vacuum pouring
 - Low pressure copper foil winding technology, thermosetting epoxy prepreg cloth insulation
 - High quality iron core 45° full oblique joint step laminated structure

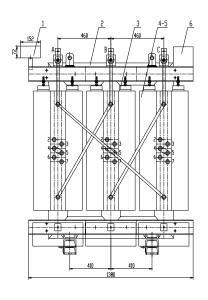
- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5°, and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve

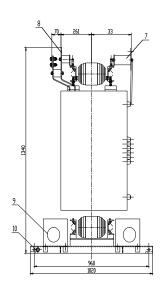






- Actual measurement is better than GB and IEC standards, CB, CCC, KEMA SASO and other certification
- Better safety excellent fire performance, F1 class
- High lightning shock resistance level (95kV for 11kV products)
- Equipped with perfect temperature protection control system, it can operate at 120% rated load under forced air cooling condition
- Global operation verified high reliability, has been exported to more than 50 countries and regions
- Mainly used in 11KV urban distribution network, industrial and mining enterprises and civil building power supply and distribution
- 5793 sets of products have been successfully sold to Kuwait, UAE, Saudi Arabia, Qatar, Iraq, Oman and other Middle East countries
- Implementation standard: IEC 60076 series, GB1094 series, GB/T6451-2008
- The shell material is aluminum alloy, cold rolled steel plate, stainless steel, etc. (protection grade IP20, IP23, etc.)





- Resistance thermometer Iron core assembly
- Body insulation
- High voltage winding Low voltage winding
- Nameplale group High voltage leads Low voltage leads Draught fan Earth stud



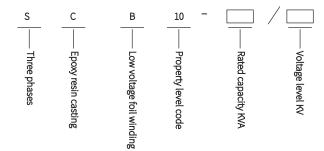
SCB10 Dry Type Transformer

| | 额定电压及 | 分接范围Rated voltage | &Off-load | 联结组标号 | 空载损耗 | 负载损耗 | 空载电流 | 短路阻抗 |
|----------|---|-------------------|------------------|-------------|---------|-----------|---------|------------|
| 额定容量 | 高压 | 高压分接范围 | 低压 | Vector | NO-load | Load loss | NO-load | Short |
| Capacity | H. V (kv) | High pressure | L. V (kv) | GroupSymbol | loss | (W) | current | circuit |
| | 11. ((((((((((((((((((| Tap range (%) | D. (RV) | oroupsymbor | (W) | F级绝缘 | (%) | impedance(|
| 30 | | | | | 190 | 710 | 2 | 4 |
| 50 | | | | | 270 | 1000 | 2 | 4 |
| 80 | | ±5% | | | 370 | 1380 | 1.5 | 4 |
| 100 | | $\pm 2.5\%$ | | | 400 | 1570 | 1.5 | 4 |
| 125 | | | | | 470 | 1850 | 1.3 | 4 |
| 160 | | | | | 540 | 2130 | 1.3 | 4 |
| 200 | | | 620 | 2530 | 1.1 | 4 | | |
| 250 | | | | | 720 | 2760 | 1.1 | 4 |
| 315 | 11 10.5 | | 0.4 | | 880 | 3470 | 1 | 4 |
| 400 | 10 6.6 | | 0.4 | Dyn11 | 980 | 3990 | 1 | 4 |
| 500 | 6.36 | | 0. 415 0. 420 | Yyn0 | 1160 | 4880 | 1 | 4 |
| 630 | | -L E0/ | 0.420 | | 1340 | 5880 | 0.85 | 4 |
| 630 | | ±5% | | | 1300 | 5960 | 0.85 | 6 |
| 800 | | $\pm 2x2.5\%$ | | | 1520 | 6960 | 0.85 | 6 |
| 1000 | | | | | 1770 | 8130 | 0.85 | 6 |
| 1250 | | | | | 2090 | 9100 | 0.85 | 6 |
| 1600 | | | | | 2450 | 11700 | 0.85 | 6 |
| 2000 | | | | | 3050 | 14400 | 0.7 | 6 |
| 2500 | | | | | 3600 | 17100 | 0.7 | 6 |

Leading technology

- Input voltage: 11KV
- Output voltage: 0.4kV
- Capacity: 30-2500kVA
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements
- High pressure copper tape winding technology, flame retardant formula vacuum pouring
 - Low pressure copper foil winding technology, thermosetting epoxy prepreg cloth insulation
 - High quality iron core 45° full oblique joint step laminated structure

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5° , and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve





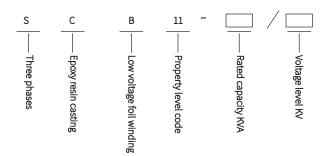
SCB11 Dry Type Transformer

| | 额定 | 电压及分接范围Rate | d | 联结组坛具 | 空载损耗 | 负载损耗 | 空载电流 | 短路阻抗 |
|----------|-------------------------|---------------|------------------|-----------------|---------|-----------|---------|-----------|
| 额定容量 | 高压 | 高压分接范围 | 低压 | 联结组标号 Vector | NO-load | Load loss | NO-load | Short |
| Capacity | 同 <u>压</u> H. V (kv) | High pressure | L.V | GroupSymbol | loss | (W) | current | circuit |
| | 11. V (KV) | Tap range (%) | (kv) | Groupsymbor | (W) | F级绝缘 | (%) | impedance |
| 30 | | | | | 170 | 710 | 2 | 4 |
| 50 | | | | | 240 | 1000 | 2 | 4 |
| 80 | | ±5% | | | 330 | 1380 | 1.5 | 4 |
| 100 | | $\pm 2.5\%$ | | | 360 | 1570 | 1.5 | 4 |
| 125 | | | | | 420 | 1850 | 1.3 | 4 |
| 160 | | | | | 490 | 2130 | 1.3 | 4 |
| 200 | | | | | 560 | 2530 | 1.1 | 4 |
| 250 | | | | | 650 | 2760 | 1.1 | 4 |
| 315 | 11 10.5 | | 0.4 | | 790 | 3470 | 1 | 4 |
| 400 | 10 6.6 | | 0.4 | Dyn11 | 880 | 3990 | 1 | 4 |
| 500 | 6.36 | | 0. 415 0. 420 | Yyn0 | 1045 | 4880 | 1 | 4 |
| 630 | | L EW | 0. 420 | | 1210 | 5880 | 0.85 | 4 |
| 630 | | ±5% | | | 1170 | 5960 | 0.85 | 6 |
| 800 | | $\pm 2x2.5\%$ | | | 1370 | 6960 | 0.85 | 6 |
| 1000 | | | | | 1590 | 8130 | 0.85 | 6 |
| 1250 | | | | | 1880 | 9100 | 0.85 | 6 |
| 1600 | | | | | 2205 | 11700 | 0.85 | 6 |
| 2000 | | | | | 2745 | 14400 | 0.7 | 6 |
| 2500 | | | | | 3240 | 17100 | 0.7 | 6 |

Leading technology

- Input voltage: 11KV
- Output voltage: 0.4kV
- Capacity: 30-2500kVA
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements
- High pressure copper tape winding technology, flame retardant formula vacuum pouring
 - Low pressure copper foil winding technology, thermosetting epoxy prepreg cloth insulation
 - High quality iron core 45° full oblique joint step laminated

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5°, and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve





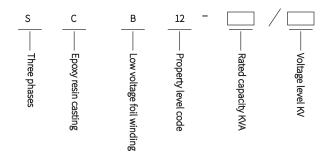
SCB12 Dry Type Transformer

| | 额定电压及分接范围Rated | | | | 空载损耗 | 负载损耗 | 空载电流 | 短路阻抗 |
|----------|----------------------------|----------------|-----------------------------------|-----------------|---------|-----------|---------|-----------|
| 额定容量 | 高压 | 高压分接范围 | 低压 | 联结组标号 Vector | NO-load | Load loss | NO-load | Short |
| Capacity | H. V (kv) | High pressure | L.V | GroupSymbol | loss | (W) | current | circuit |
| | 11. V (KV) | Tap range (%) | (kv) | or oupsymbor | (W) | F级绝缘 | (%) | impedance |
| 30 | 11 10.5 10 6.6 6.3 6 | ±5% ±2.5% | 0. 4 0. 415 0. 420 0. 44 | Dyn11 Yyn0 | 150 | 710 | 2 | 4 |
| 50 | | | | | 215 | 1000 | 2 | 4 |
| 80 | | | | | 295 | 1380 | 1.5 | 4 |
| 100 | | | | | 320 | 1570 | 1.5 | 4 |
| 125 | | | | | 375 | 1850 | 1.3 | 4 |
| 160 | | | | | 430 | 2130 | 1.3 | 4 |
| 200 | | ±5% ±2x2.5% | | | 495 | 2530 | 1.1 | 4 |
| 250 | | | | | 575 | 2760 | 1.1 | 4 |
| 315 | | | | | 705 | 3470 | 1 | 4 |
| 400 | | | | | 785 | 3990 | 1 | 4 |
| 500 | | | | | 930 | 4880 | 1 | 4 |
| 630 | | | | | 1070 | 5880 | 0.85 | 4 |
| 630 | | | | | 1040 | 5960 | 0.85 | 6 |
| 800 | | | | | 1215 | 6960 | 0.85 | 6 |
| 1000 | | | | | 1415 | 8130 | 0.85 | 6 |
| 1250 | | | | | 1670 | 9100 | 0.85 | 6 |
| 1600 | | | | | 1960 | 11700 | 0.85 | 6 |
| 2000 | | | | | 2440 | 14400 | 0.7 | 6 |
| 2500 | | | | | 2880 | 17100 | 0.7 | 6 |

Leading technology

- Input voltage: 11KV
- Output voltage: 0.4kV
- Capacity: 30-2500kVA
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements
- High pressure copper tape winding technology, flame retardant formula vacuum pouring
 - Low pressure copper foil winding technology, thermosetting epoxy prepreg cloth insulation
 - High quality iron core 45° full oblique joint step laminated structure

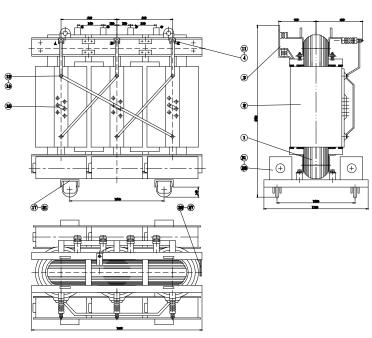
- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed $5^\circ,$ and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve







- Low loss, product actual measurement better than GB and IEC standards, CE ROHS KEMA certification
- High reliability of operation verification in more than 50 countries and regions around the world
- Mainly used in 20KV distribution network, industrial and mining enterprises and civil building power supply and distribution system
- The main products for Spain, Germany, France, Italy, Greece, Iceland, Finland and other European customers to provide 2598 OEM
- Standards: IEC 60076 series, IEC 6013, IEC 60214-1, IEC 60296; GB1094 series, GB/T6451-2015, GB/T7597-2007, etc





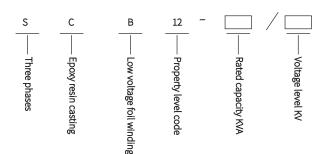
SCB12 Dry Type Transformer

| | 额定电压及 | 分接范围Rated voltage | &Off-load | 联结组标号 | 空载损耗 | 负载损耗 | 空载电流 | 短路阻抗 |
|----------|------------|-------------------|-----------|-----------------|---------|-----------|---------|------------|
| 额定容量 | 高压 | 高压分接范围 | 低压 | 联组组协与 Vector | NO-load | Load loss | NO-load | Short |
| Capacity | H. V (kv) | High pressure | L. V (kv) | GroupSymbol | loss | (W) | current | circuit |
| | 11. V (KV) | Tap range (%) | L. V (KV) | or oupsymbor | (W) | F级绝缘 | (%) | impedance(|
| 50 kva | | | | | 345 | 1080 | 2.4 | 6 |
| 100 kva | | | | | 540 | 1740 | 2.2 | 6 |
| 160 kva | | | | | 675 | 2160 | 1.8 | 6 |
| 200 kva | | | | | 740 | 2570 | 1.8 | 6 |
| 250 kva | | | | | 845 | 2990 | 1.8 | 6 |
| 315 kva | | | | | 970 | 3560 | 1.6 | 6 |
| 400 kva | | I | 0.4 | | 1150 | 4230 | 1.6 | 6 |
| 500 kva | 20 | ±5% | 0.4 | Dyn11 | 1350 | 5060 | 1.4 | 6 |
| 630 kva | | $\pm 2x2.5\%$ | | Yyn0 | 1530 | 5970 | 1.4 | 6 |
| 800 kva | | | | | 1755 | 7220 | 1.2 | 6 |
| 1000 kva | | | | | 2070 | 8545 | 1.2 | 6 |
| 1250 kva | | | | | 2385 | 10080 | 1.0 | 6 |
| 1600 kva | | | | | 2790 | 12115 | 1.0 | 6 |
| 2000 kva | | | | | 3240 | 14315 | 1.0 | 6 |
| 2500 kva | | | | | 3870 | 16925 | 1.0 | 6 |

Leading technology

- Input voltage: 20KV
- Output voltage: 0.4kV
- Capacity: 30-2500kVA
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements
- High pressure copper tape winding technology, flame retardant formula vacuum pouring
 - Low pressure copper foil winding technology, thermosetting epoxy prepreg cloth insulation
 - High quality iron core 45° full oblique joint step laminated structure

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5°, and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve

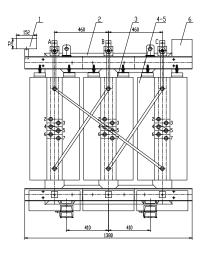


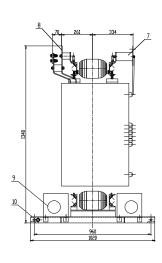




Product overview

- Actual measurement is better than GB and IEC standards, CB KEMA COC and other certifications
- More than 50 countries and regions around the world run verification of high reliability
- It is mainly used in 15KV distribution network of national power grid, power supply and distribution system of industrial and mining enterprises and civil buildings
- Products are mainly sold 12598 sets to Uganda, Ethiopia, Rwanda and other African countries
- Executive standard: IEC 60076 series, GB1094 series, GB/T6451-2008
- The shell materials are aluminum alloy, cold rolled steel plate, stainless steel, etc. (protection level IP20, IP23, etc.)





- Nameplate group High voltage leads Low voltage leads Draught fan Earth stud



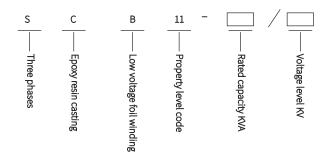
SCB11 Dry Type Transformer

| | 额定电压及 | 分接范围Rated voltage | &Off-load | 联结组标号 | 空载损耗 | 负载损耗 | 空载电流 | 短路阻抗 |
|----------|------------|-------------------|-----------|---------------|---------|-----------|---------|------------|
| 额定容量 | 高压 | 高压分接范围 | 低压 | Vector | NO-load | Load loss | NO-load | Short |
| Capacity | H. V (kv) | High pressure | L. V (kv) | GroupSymbol | loss | (W) | current | circuit |
| | 11. V (KV) | Tap range (%) | L. V (KV) | or oupsymbor | (W) | F级绝缘 | (%) | impedance(|
| 50 | | | | | 405 | 1420 | 2.3 | 6 |
| 100 | | | | | 570 | 2090 | 2.0 | 6 |
| 160 | | | | | 710 | 2810 | 1.5 | 6 |
| 200 | | | | | 795 | 3320 | 1.5 | 6 |
| 250 | | | | | 890 | 3800 | 1.3 | 6 |
| 315 | | | | | 1055 | 4510 | 1.3 | 6 |
| 400 | 28. 5kv | | | | 1235 | 5410 | 1.1 | 6 |
| 500 | 30kv | $\pm 5\%$ | 0.4 | Deep 1.1 | 1460 | 6650 | 1.1 | 6 |
| 630 | 31. 5kv | $\pm 2x2.5\%$ | | Dyn11 Yyn0 | 1675 | 7690 | 1.0 | 6 |
| 800 | 01. OKV | | | I y II O | 1945 | 9120 | 1.0 | 6 |
| 1000 | | | | | 2190 | 10400 | 0.75 | 6 |
| 1250 | | | | | 2550 | 12700 | 0.75 | 6 |
| 1600 | | | | | 2920 | 15400 | 0.75 | 6 |
| 2000 | | | | 21 | 3440 | 18200 | 0.75 | 6 |
| 2500 | | | | | 4005 | 21800 | 0.75 | 6 |
| 3150 | | | | | 5400 | 22170 | 0.75 | 6 |

Leading technology

- Input voltage: 30KV
- Output voltage: 0.4kV
- Capacity: 30-2500kVA
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements
- High pressure copper tape winding technology, flame retardant formula vacuum pouring
 - Low pressure copper foil winding technology, thermosetting epoxy prepreg cloth insulation
 - High quality iron core 45° full oblique joint step laminated structure

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5°, and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve

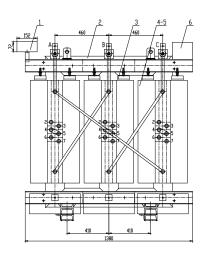


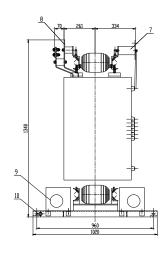




Product overview

- Actual measurement is better than GB and IEC standards, CB, CCC, KEMA SASO and other certification
- Better safety excellent fire performance, F1 class
- High lightning resistance level (175kV for 33kV products)
- Equipped with perfect temperature protection control system, it can operate at 120% rated load under forced air cooling condition
- Global operation verified high reliability, has been exported to more than 50 countries and regions
- Mainly used in 33KV urban distribution network, industrial and mining enterprises and civil building power supply and distribution system
- 5793 sets of products have been successfully sold to Uganda, Ethiopia, Tanzania, Zimbabwe, Ghana, South Africa, Kenya, Zambia, Rwanda and other countries





- Resistance thermone Iron core assembly Body insulation High voltage winding Low voltage winding

- Nameplate group High voltage leads Low voltage leads Draught fan Earth stud



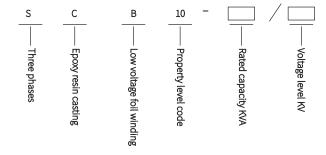
SCB10 Dry Type Transformer

| | 额定 | 电压及分接范围Rate | d | 联结组标号 | 空载损耗 | 负载损耗 | 空载电流 | 短路阻抗 |
|----------|-------------------------|---------------|-----------------|-----------------|---------|-----------|---------|-----------|
| 额定容量 | 高压 | 高压分接范围 | 低压 | 联结组称与 Vector | NO-load | Load loss | NO-load | Short |
| Capacity | 同 <u>压</u> H. V (kv) | High pressure | L.V | | loss | (W) | current | circuit |
| | п. V (КV) | Tap range (%) | (kv) | GroupSymbol | (W) | F级绝缘 | (%) | impedance |
| 50 | | | | | 450 | 1420 | 2.3 | 6 |
| 100 | | | | | 630 | 2090 | 2.0 | 6 |
| 160 | | | | | 790 | 2810 | 1.5 | 6 |
| 200 | | | | | 880 | 3320 | 1.5 | 6 |
| 250 | | | | | 990 | 3800 | 1.3 | 6 |
| 315 | | | | | 1170 | 4510 | 1.3 | 6 |
| 400 | | | | | 1370 | 5410 | 1.1 | 6 |
| 500 | | ±5% | 0.4 | D 1.1 | 1620 | 6650 | 1.1 | 6 |
| 630 | 33 | $\pm 2x2.5\%$ | 0.415 | Dyn11 | 1860 | 7690 | 1.0 | 6 |
| 800 | | | 0. 420 0. 44 | Yyn0 | 2160 | 9120 | 1.0 | 6 |
| 1000 | | | 0.44 | | 2430 | 10400 | 0.75 | 6 |
| 1250 | | | | | 2830 | 12700 | 0.75 | 6 |
| 1600 | | | | | 3240 | 15400 | 0.75 | 6 |
| 2000 | | | | | 3820 | 18200 | 0.75 | 6 |
| 2500 | | | | | 4450 | 21800 | 0.75 | 6 |
| 3150 | | | | | 6000 | 22170 | 0.75 | 6 |

Leading technology

- Input voltage: 35KV
- Output voltage: 0.4kV
- Capacity: 30-31500kVA
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements
- High pressure copper tape winding technology, flame retardant formula vacuum pouring
 - Low pressure copper foil winding technology, thermosetting epoxy prepreg cloth insulation
 - High quality iron core 45° full oblique joint step laminated structure

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5°, and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve





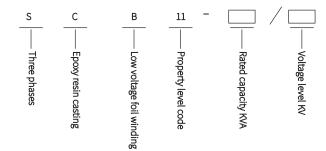
SCB11 Dry Type Transformer

| | 额定电压及 | 分接范围Rated voltage | &Off-load | 联结组标号 | 空载损耗 | 负载损耗 | 空载电流 | 短路阻抗 |
|----------|------------|-------------------|-----------------|--------------|---------|-----------|---------|------------|
| 额定容量 | 高压 | 高压分接范围 | 低压 | Vector | NO-load | Load loss | NO-load | Short |
| Capacity | H. V (kv) | High pressure | L. V (kv) | GroupSymbol | loss | (W) | current | circuit |
| | 11. V (KV) | Tap range (%) | L. V (KV) | or oupsymbor | (₩) | F级绝缘 | (%) | impedance(|
| 50 | | | | | 405 | 1420 | 2.3 | 6 |
| 100 | | | | | 570 | 2090 | 2.0 | 6 |
| 160 | | | | | 710 | 2810 | 1.5 | 6 |
| 200 | | | | | 795 | 3320 | 1.5 | 6 |
| 250 | | | | | 890 | 3800 | 1.3 | 6 |
| 315 | | | | | 1055 | 4510 | 1.3 | 6 |
| 400 | | | | | 1235 | 5410 | 1.1 | 6 |
| 500 | | ±5% | 0.4 | Dyn11 | 1460 | 6650 | 1.1 | 6 |
| 630 | 33 | $\pm 2x2.5\%$ | 0. 415 | Yyn0 | 1675 | 7690 | 1.0 | 6 |
| 800 | | | 0. 420 0. 44 | I y II O | 1945 | 9120 | 1.0 | 6 |
| 1000 | | | 0. 11 | | 2190 | 10400 | 0.75 | 6 |
| 1250 | | | | | 2550 | 12700 | 0.75 | 6 |
| 1600 | | | | | 2920 | 15400 | 0.75 | 6 |
| 2000 | | | | | 3440 | 18200 | 0.75 | 6 |
| 2500 | | | | | 4005 | 21800 | 0.75 | 6 |
| 3150 | | | | | 5400 | 22170 | 0.75 | 6 |

Leading technology

- Input voltage: 35KV
- Output voltage: 0.4kV
- Capacity: 30-31500kVA
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements
- High pressure copper tape winding technology, flame retardant formula vacuum pouring
 - Low pressure copper foil winding technology, thermosetting epoxy prepreg cloth insulation
 - High quality iron core 45° full oblique joint step laminated structure

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5°, and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve





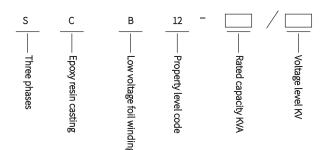
SCB12 Dry Type Transformer

| 额定容量 Capacity | 额定 高压 H.V(kv) | E压及分接范围Ra 高压分接范围 High pressure | 低压 L.V(kv) | 联结组标号 Vector GroupSymbol | 空载损耗 NO-load loss(W) | 负载损耗 Load loss (W) F级绝缘 | 空载电流 NO-load current (%) | 短路阻抗 Short circuit impedance |
|------------------|---------------------|---|-----------------|--------------------------------|----------------------------|----------------------------------|-----------------------------------|---------------------------------------|
| 50 | | | | | 360 | 1420 | 2.3 | 6 |
| 100 | | | | | 505 | 2090 | 2.0 | 6 |
| 160 | | | | | 630 | 2810 | 1.5 | 6 |
| 200 | | | | | 705 | 3320 | 1.5 | 6 |
| 250 | | | | | 795 | 3800 | 1.3 | 6 |
| 315 | | | | | 940 | 4510 | 1.3 | 6 |
| 400 | | | | | 1095 | 5410 | 1.1 | 6 |
| 500 | | ±5% | 0.4 | Dyn11 | 1295 | 6650 | 1. 1 | 6 |
| 630 | 33 | $\pm 2x2.5\%$ | 0.415 | Yyn0 | 1490 | 7690 | 1.0 | 6 |
| 800 | | | 0. 420 0. 44 | I y IIO | 1730 | 9120 | 1.0 | 6 |
| 1000 | | | 0.11 | | 1945 | 10400 | 0.75 | 6 |
| 1250 | | | | | 2265 | 12700 | 0.75 | 6 |
| 1600 | | | | | 2595 | 15400 | 0.75 | 6 |
| 2000 | | | | | 3055 | 18200 | 0.75 | 6 |
| 2500 | | | | | 3560 | 21800 | 0.75 | 6 |
| 3150 | | | | | 4800 | 22170 | 0.75 | 6 |

Leading technology

- Input voltage: 35KV
- Output voltage: 0.4kV
- Capacity: 30-31500kVA
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements
- High pressure copper tape winding technology, flame retardant formula vacuum pouring
 - Low pressure copper foil winding technology, thermosetting epoxy prepreg cloth insulation
 - High quality iron core 45° full oblique joint step laminated structure

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5°, and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve

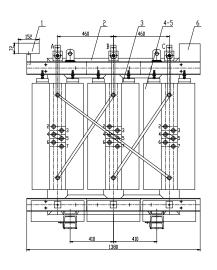


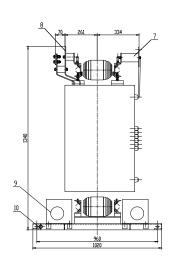




Product overview

- Actual measurement is better than GB and IEC standards, CB, CCC, KEMA SASO and other certification
- Better safety excellent fire performance, F1 class
- High lightning resistance level (175kV for 35kV products)
- Equipped with perfect temperature protection control system, it can operate at 120% rated load under forced air cooling condition
- Global operation verified high reliability, has been exported to more than 50 countries and regions
- Mainly used in 35KV urban distribution network, industrial and mining enterprises and civil building power supply and distribu-
- Products are mainly exported to Southeast Asia, the Middle East, Africa, South America and other countries and regions
- Implementation standard: IEC 60076 series, GB1094 series, GB/T6451-2008





- Resistance thermometer Iron core assembly Body insulation

- High voltage leads Low voltage leads



SCB10 Dry Type Transformer

| | 额定 | 电压及分接范围Rate | d | 联结组标号 | 空载损耗 | 负载损耗 | 空载电流 | 短路阻抗 |
|----------|-----------------|---------------|------|---------------|---------|-----------|---------|-----------|
| 额定容量 | 高压 | 高压分接范围 | 低压 | | NO-load | Load loss | NO-load | Short |
| Capacity | 同止 H. V (kv) | High pressure | L.V | GroupSymbol | loss | (W) | current | circuit |
| | п. у (ку) | Tap range (%) | (kv) | Groupsymbor | (W) | F级绝缘 | (%) | impedance |
| 50 | | | | | 450 | 1420 | 2. 3 | 6 |
| 100 | | | | | 630 | 2090 | 2.0 | 6 |
| 160 | | | | | 790 | 2810 | 1.5 | 6 |
| 200 | | | | | 880 | 3320 | 1.5 | 6 |
| 250 | | | | | 990 | 3800 | 1.3 | 6 |
| 315 | | | | | 1170 | 4510 | 1.3 | 6 |
| 400 | | | | | 1370 | 5410 | 1.1 | 6 |
| 500 | 35 | ±5% | 0.4 | Dr. 1.1 | 1620 | 6650 | 1. 1 | 6 |
| 630 | 38. 5 | $\pm 2x2.5\%$ | | Dyn11 Yyn0 | 1860 | 7690 | 1.0 | 6 |
| 800 | | | | I YIIO | 2160 | 9120 | 1.0 | 6 |
| 1000 | | | | | 2430 | 10400 | 0.75 | 6 |
| 1250 | | | | | 2830 | 12700 | 0.75 | 6 |
| 1600 | | | | | 3240 | 15400 | 0.75 | 6 |
| 2000 | | | | | 3820 | 18200 | 0.75 | 6 |
| 2500 | | | | | 4450 | 21800 | 0.75 | 6 |
| 3150 | | | | | 6000 | 22170 | 0.75 | 6 |

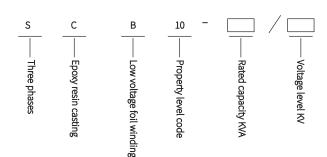
- Input voltage: 35KV

- Output voltage: 0.4kV
- Capacity: 30-31500kVA
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements

Leading technology

- High pressure copper tape winding technology, flame retardant formula vacuum pouring
 - Low pressure copper foil winding technology, thermosetting epoxy prepreg cloth insulation
 - High quality iron core 45° full oblique joint step laminated structure

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5°, and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve





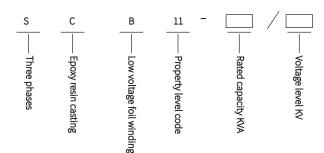
SCB11 Dry Type Transformer

| 额定容量 Capacity | 额定电压及 高压 H. V (kv) | 分接范围Rated voltage 高压分接范围 High pressure Tap range (%) | &Off-load 低压 L.V(kv) | 联结组标号 Vector GroupSymbol | 空载损耗 NO-load loss (W) | 负载损耗 Load loss (W) F级绝缘 | 空载电流 NO-load current (%) | 短路阻抗 Short circuit impedance(|
|---|--------------------------|---|----------------------------|--------------------------------|---|--|--|--|
| 50 100 160 200 250 315 400 500 630 800 1000 1250 1600 2000 2500 3150 | 35 38. 5 | ±5% ±2x2.5% | 0. 4 | Dyn11 Yyn0 | 405 570 710 795 890 1055 1235 1460 1675 1945 2190 2550 2920 3440 4005 5400 | 1420 2090 2810 3320 3800 4510 5410 6650 7690 9120 10400 12700 15400 18200 21800 22170 | 2.3 2.0 1.5 1.3 1.3 1.1 1.0 1.0 0.75 0.75 0.75 0.75 0.75 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 |

Leading technology

- Input voltage: 35KV
- Output voltage: 0.4kV
- Capacity: 30-31500kVA
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements
- High pressure copper tape winding technology, flame retardant formula vacuum pouring
 - Low pressure copper foil winding technology, thermosetting epoxy prepreg cloth insulation
 - High quality iron core 45° full oblique joint step laminated structure

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5° , and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve





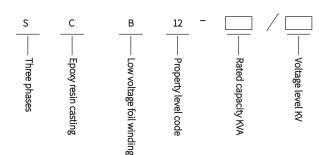
SCB12 Dry Type Transformer

| 额定容量 | | 电压及分接范围Ra 「高压分接范围 | | 联结组标号 | 空载损耗 | 负载损耗 Load loss | 空载电流 NO-load | 短路阻抗 Short |
|----------|---------------|----------------------|---------------|-----------------------|---------------------|-------------------|-----------------|----------------------|
| Capacity | 高压 H.V(kv) | High pressure | 低压 L.V(kv) | Vector GroupSymbol | NO-load loss (W) | (W) F级绝缘 | current (%) | circuit impedance |
| 50 | | pressure | | | 360 | 1420 | 2.3 | 6 |
| 100 | | | | | 505 | 2090 | 2.0 | 6 |
| 160 | | | | | 630 | 2810 | 1.5 | 6 |
| 200 | | | | | 705 | 3320 | 1.5 | 6 |
| 250 | | | | | 795 | 3800 | 1.3 | 6 |
| 315 | | | | | 940 | 4510 | 1.3 | 6 |
| 400 | | | | | 1095 | 5410 | 1.1 | 6 |
| 500 | 35 | ±5% | 0.4 | Dyn11 | 1295 | 6650 | 1.1 | 6 |
| 630 | 38.5 | $\pm 2x2.5\%$ | | Yyn0 | 1490 | 7690 | 1.0 | 6 |
| 800 | | | | 1 9 110 | 1730 | 9120 | 1.0 | 6 |
| 1000 | | | | | 1945 | 10400 | 0.75 | 6 |
| 1250 | | | | | 2265 | 12700 | 0.75 | 6 |
| 1600 | | | | | 2595 | 15400 | 0.75 | 6 |
| 2000 | | | | | 3055 | 18200 | 0.75 | 6 |
| 2500 | | | | | 3560 | 21800 | 0. 75 | 6 |
| 3150 | | | | | 4800 | 22170 | 0.75 | 6 |

Leading technology

- Input voltage: 35KV
- Output voltage: 0.4kV
- Capacity: 30-31500kVA
- Note: voltage, capacity, frequency, connection group and loss can be customized according to customer requirements
- High pressure copper tape winding technology, flame retardant formula vacuum pouring
 - Low pressure copper foil winding technology, thermosetting epoxy prepreg cloth insulation
 - High quality iron core 45° full oblique joint step laminated structure

- Altitude less than 1000m, air temperature -25°C~40°C, humidity less than 90% (+25°C)
- the vertical inclination shall not exceed 5° , and the outdoor wind speed shall not exceed 35m/s without severe vibration
- No gas or conductive dust seriously affecting transformer insulation; Places free from explosion hazard and corrosion of electrical components
- Beyond the above normal operating conditions, customers can be customized with our company to solve







Product overview

- Product actual measurement is better than GB and IEC standards, CB, CCC, KEMA and other certification
- High reliability of operation verification in more than 50 countries and regions around the world
- Mainly used in 10KV distribution network of State grid, power supply and distribution system of industrial and mining enterprises and civil buildings
- Our products are mainly exported to developing countries and regions in Central Asia, East Asia and Southeast Asia
- Implementation standard: IEC 60076 series, GB/T25446-2010, GB1094 series

Leading technology

- Low pressure copper foil winding and high pressure copper tape winding technology, improve lightning resistance - Small magnetic leakage, high mechanical strength, strong short circuit resistance
- Strong heat dissipation, low temperature rise, can run 120% of the

Other instructions

- The low-voltage outgoing terminal is tinned copper bar
- The high-voltage outlet terminals are ring tinned bolts
- Default no-load voltage regulation (on-load voltage regulation can be
customized)





Leading technology

- High pressure copper tape winding technology, flame retardant formula vacuum pouring
- Low pressure copper foil winding technology, thermosetting epoxy prepreg cloth insulation
- Adopt three-phase five-column structure, frame structure around iron core protection
- Strong heat dissipation, low temperature rise, can operate at 150% rated load under air cooling conditions

Other instructions

- High pressure copper tape winding technology, flame retardant formula vacuum pouring
- Low pressure copper foil winding technology, thermosetting epoxy prepreg cloth insulation
- -Adopt three-phase five-column structure, frame structure around iron core
- -Strong heat dissipation, low temperature rise, can operate at 150% rated load under air cooling conditions

Product overview

- Actual measurement is better than GB and IEC standards, CB, CCC, KEMA and other certification
 - More safety excellent fire performance F1 class
- Equipped with perfect temperature protection control system, it can run under 150% rated load under forced air cooling condition
 - Global operation verified high reliability, has been exported to more than 50 countries and regions





Product overview

- Product actual measurement is better than GB and IEC standards, CB CCC KEMA SASO certification
- More than 50 countries and regions around the world run verification of high reliability
- OLTC Transformer is mainly used in10KV 11KV 15KV 20KV 30KV 33KV 35KV distribution network of State Grid, power supply and distribution system of industrial and mining enterprises and civil buildings
- Executive standard: IEC 60076 series, IEC 6013, IEC 60214-1, IEC 60296;GB1094 series, GB/T6451-2015, GB/T7597-2007, etc

Leading technology

- Low pressure copper foil winding and high pressure copper tape winding technology, improve lightning resistance - Small magnetic leakage, high mechanical strength, strong short

Strong heat dissipation, low temperature rise, can run 120% of the rated load

Other instructions

- The low-voltage outgoing terminal is tinned copper bar
- The high-voltage outlet terminals are ring tinned bolts
- Default no-load voltage regulation (on-load voltage regulation can be
customized)





Leading technology

- High pressure copper tape winding technology, flame retardant formula
- Low pressure copper foil winding technology, thermosetting epoxy prepreg cloth insulation
- Adopt three-phase five-column structure, frame structure around iron core protection
- Strong heat dissipation, low temperature rise, can operate at 150% rated load under air cooling conditions

Other instructions

- vacuum pouring
 Low pressure copper foil winding technology, thermosetting epoxy prepreg

Product overview

- A new type of transformer with more energy saving, compared with S11 with the same capacity transformer, the no-load loss is reduced by more than 25%, and the no-load current is reduced by more than 70%. - Noise reduction 8dB(A)-- 11dB
 - Actual measurement is better than GB and IEC standards, CB CCC
 - KEMA certification - More than 50 countries and regions around the world run verification
 - of high reliability - It is mainly used in power distribution systems of rural and urban
 - Products are mainly sold to East Asia, Central Asia, Southeast Asia, Africa, South America and other markets and regions
 - Executive standard: IEC60076-1, IEC60076-2, IEC60076-3, IEC60076-5, IEC60076-7, IEC60076-20, IEC 60836, IEC 60944
 - GB/T6451-2015, GB 1094.1, GB 1094.2, GB 1094.3, GB 1094.5, GB/T

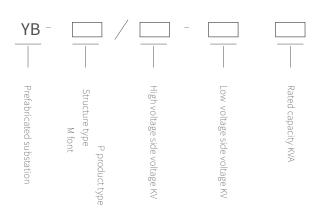




Product overview

The intelligent prefabricated substation is an outdoor device integrating the primary and secondary of the distribution system, which centrally installs the medium voltage cabinet, transformer, low-voltage cabinet and other equipment in a sealed, moisture-proof and rust proof box. It is applicable to the power system with rated voltage of 7.2 $^{\sim}$ 40.5kV / 0.4 $^{\sim}$ 0.69kv and three-phase AC 50 / 60Hz. It is mainly used in outdoor electric fields such as high-rise buildings, residential quarters, parks, factories and mines, hotels, oil fields, airports, wharfs, railways and temporary facilities for receiving, converting and distributing energy, and controlling, protecting and monitoring the circuit.

Type meaning







Ordering instructions

- Main loop scheme diagram and secondary loop system diagram
- Electrical schematic diagram of auxiliary circuit and wiring terminal layout
- Equipment layout drawing, combination drawing, floor plan drawing
- -Model, specification and quantity of main electrical components of the equipment
- Incoming and outgoing line method and cable specifications
- Equipment shell material and color
- Other special requirements can be negotiated with the manufacturer

Leading technology

- Divided into high voltage room, low voltage room, transformer room three independent areas

- XGN15, HXGN17 or SF6 switchgear is selected for high pressure

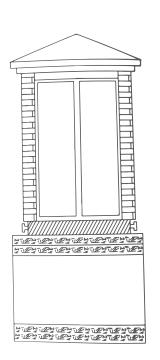
 The low-voltage side adopts panel or cabinet mounted structure to form the power supply scheme required by users, which can meet the power distribution, lighting distribution, reactive power compensation, energy metering and other functions.

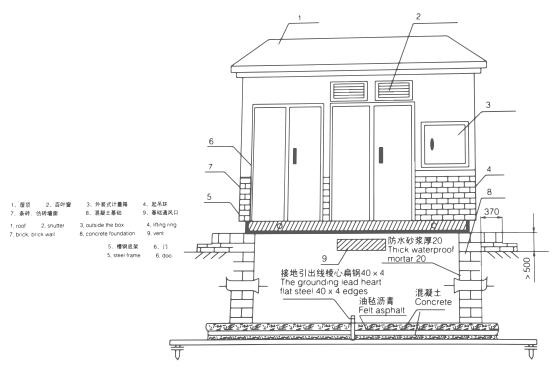
Conditions of use

The ambient air temperature ranges from 45 ° C to -45 ° C
 the altitude does not exceed 1000m. With customized transformers and low-voltage components, the altitude can reach 4000m

- The vertical inclination does not exceed 5°, no violent vibration and no impact

- Air humidity not more than 90% (+25°C)







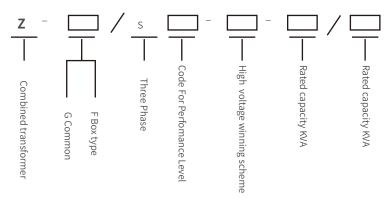


Product overview

ZGS Combined Transformer is applicable to 12kV, 50 / 60Hz ring network power supply, dual power supply or terminal power supply system. It is used as power transformation, distribution, metering, compensation, control and protection devices in new communities, green belt parks, stations, wharfs, hotels, construction sites, airports and other places.

This product complies with GB / T17467 high voltage / low voltage prefabricated substation and IEC 601330 high voltage / low voltage prefabricated substation.

Type meaning





Leading technology

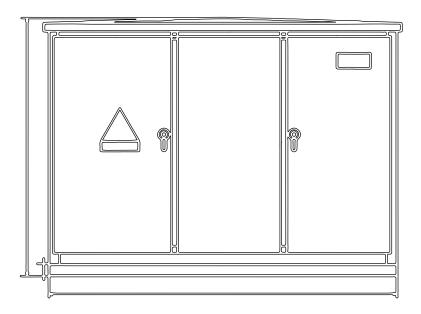
- Fully enclosed and insulated structure, safe and reliable operation
- Low loss, low noise, low temperature rise, excess capacity load ability, strong resistance to sudden short circuit
- Flexible connection mode, can be used for terminal system, also can be used for ring network system, easy conversion, improve the reliability of power supply
- Easy to operate, maintenance-free, low equipment cost

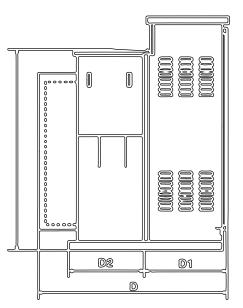
Conditions of use

- the altitude must not exceed 2000m
- The ambient air temperature is not higher than +40 degrees Celsius and not lower than -25 degrees Celsius. And the average temperature within 24 hours should not exceed +35 degrees
- Air humidity not more than 90% (+25°C)
- The vertical inclination during installation shall not exceed 5°, and the whole cabinet column shall be relatively flat and conform to the gbJ232-2 standard
- Install in place where there is no severe vibration and shock and electrical components will not be corroded

Ordering instructions

- Main loop scheme diagram and secondary loop system diagram.
 - Electrical schematic diagram of auxiliary circuit and wiring terminal layout
 - Equipment layout drawing, combination drawing, floor plan drawing.
 - -Brand, model, specification and quantity of main electrical components of the equipment.
- Incoming and outgoing line method and cable specifications.
 - Device surface color.
- Other special requirements can be negotiated with Hengfengyou Electric









Armoured Removable AC Metal Closed Switchgear

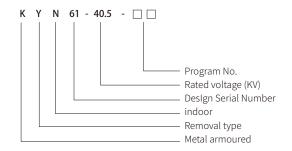
Product Overview

KYN61 armoured removable AC metal enclosed switchgear (hereinafter referred to as equipment) is suitable for 40.5 kV three-phase AC 50Hz single bus and single bus subsection power system. It is mainly used in power plants, substations, industrial and mining enterprises, high-rise buildings and other transformer and distribution occasions to receive and distribute energy, and to control the circuit. Protection and monitoring.

This product conforms to IEC60298, EC62271-200, IEC62271-1, GB3906, GB/T11022, DL/T404 and other relevant abundant standards, and has perfect "five defenses" interlocking function. Applicability of the equipment is strong, configurable ZN85-40.5, SF1, SF2, HVX40, FP-40.5, VD4-40.5, HD4-40.5, VYG.-40.5, VBG-40.5 circuit breakers and JN22-40.5, JN15-40.5 grounding switches to meet the needs of different users.



Product Type Meaning



Main technical parameters

Normal use environmental conditions

- 1. Ambient temperature: not higher than + 40°C, not lower than-15°C, and within 24 hours its average. Temperature is not higher than +35 degree°C, the equipment should be used to reduce capacity when exceeding the above ambient temperature.
- 2. Relative humidity: the daily average is not more than 95%, and the monthly average is not more than 90%.
- Altitude: Usually the installation site is not more than 1000m above sea level. The bureau should reduce its capacity in places with an elevation of 1000m.
- 4. Earthquake Intensity: No more than 8 degrees.
- 5. The equipment should be installed without fire, explosion and violent vibration. No chemical corrosion and other serious dirty places
- 6. If the above conditions of use are not satisfied, they should be settled through negotiation between the user and the manufacturer.

| Serial number | | project | Company | Param | eter | |
|------------------|---|---|---------|--|----------------------------|--|
| 1 | | Rated voltage | KV | 40.5 | | |
| 2 | | Nominal Current of Main Bus | А | 630、1250、1600、2000、2500 | | |
| 3 | Rated Current of Branch Bus | | | 630、1250、1600、 | 2000、2500 | |
| 4 | | Rated Frequency | HZ | 50 | | |
| 5 | Rated | short circuit breaking current (RMS) | KA | 25、3 | 1.5 | |
| 6 | Rated sho | ort circuit switching current (peak value) | KA | 63、8 | 0 | |
| 7 | Rated peak tolerable current | | | 63,80 | | |
| 8 | Rated sho | rt-term withstand current/duration (RMS) | KA/S | 25/4、31.5/4 | | |
| | Rated | 1 min rated short-term power frequency | KV | Interphase and relative | Primary isolation fracture | |
| 9 | insulation | withstand voltage (RMS) | rv | 95 | 118 | |
| | level | Rated lightning impulse withstand voltage (peak value) | KV | 185 | 215 | |
| 10 | Ra | ated voltage of auxiliary circuit | V | AC/DC 13 | 10、220 | |
| 11 | Short-time power frequency withstand voltage of auxiliary circuit for 1 min | | | 2000 | | |
| 12 | Protection Level | | | IP2X when the door of enclosure IP4X compartment and circuit breaker compartment opens | | |
| 13 | Sh | ape size (wide X deep X high) | mm | 1400×280 | 0×2600 | |
| 14 | | weight | kg | About | 2300 | |

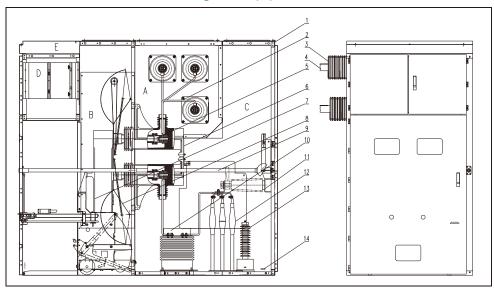


Armoured Removable AC Metal Closed Switchgear

structure characteristics

The equipment is mainly composed of cabinet body and handcart. The case is divided into five separate compartments: handcart room (also known as circuit breaker room), bus room, cable room, relay instrument room and small bus room. The protection level of the case is IP4X, the door of handcart room is opened, and the protection level of handcart is IP2X when it is in test position. There are cable in and out lines, overhead in and out lines, liaison, isolation, metering and other functional schemes. According to the use, the equipment of each scheme can be arranged to form a distribution device that can complete the design function.

Internal schematic diagram of equipment structure



- A. Bus type
- B. Handcart Room
- C. Cable room
- D. Relay Instrument Room
- E. Small Bus Room
- 1. Shell
- 2. Branch Bus
- 3. Bus bushing
- 4. Main Bus5. Static contacts
- 6. Contact box
- 7. Circuit Breaker Handcart
- 8. Valves
- $9.\ Grounding\ Switch\ Operating\ Shaft$
- 10. Current transformer
- 11. Grounding Switch
- 12. Cable
- 13. Overvoltage protector
- 14. Grounded main bus

structure characteristics

- 1. Main circuit scheme diagram and primary system diagram.
- 2. Auxiliary circuit electrical schematic diagram, terminal arrangement diagram, such as no schematic diagram, terminal arrangement diagram, according to the manufacturer's standard.
- 3. Equipment Arrangement and Combination Diagram and Plane Arrangement Diagram.
- 4. Types, specifications and quantities of main electrical components in the equipment.
- 5. Data of bus span and height from ground should be provided for the mode and specifications of incoming and outgoing lines, such as bus connection between equipments or incoming units.
- 6. Surface color of equipment.
- 7. Other special requirements shall be settled through consultation with the manufacturer.



Armoured Removable AC Metal Closed Switchgear

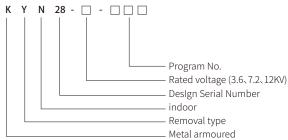
Product Overview

KYN28 armoured movable metal-enclosed switchgear (hereinafter referred to as equipment) is suitable for 3.6 12 kV three-phase AC 50Hz single-bus and single-bus subsection power system. It is mainly used in power plants, small and medium-sized generators, power distribution in industrial and mining enterprises, as well as secondary substations of power system and large-scale power distribution. For the start-up of high-voltage motor, the circuit is controlled, protected and tested.

This product meets the requirements of IEC60298, old C62271-200, old C62271-1, GB3906, GB/T11022, DL/T404 and other relevant standards, and has perfect "five defenses" function. The equipment has strong applicability. It can be equipped with circuit breakers such as VS1-12, VD4-12, VEP-12, HVX12, VBG-12, 3AE-EP, VYG-12, eVB-12 and grounding switches such as JN15-12 and EK6 to meet the needs of different users.



Product Type Meaning



Main technical parameters

Normal use environmental conditions

- 1. Ambient temperature: not higher than + 40° C, not lower than 15° C, and within 24 hours its average. Temperature is not higher than +35 degree°C, the equipment should be used to reduce capacity when exceeding the above ambient temperature.
- 2. Relative humidity: the daily average is not more than 95%, and the monthly average is not more than 90%.
- Altitude: Usually the installation site is not more than 1000m above sea level. The bureau should reduce its capacity in places with an elevation of 1000m.
- 4. Earthquake Intensity: No more than 8 degrees.
- 5. The equipment should be installed without fire, explosion and violent vibration. No chemical corrosion and other serious dirty places.
- 6. If the above conditions of use are not satisfied, they should be settled through negotiation between the user and the manufacturer.

| Serial | | project | Company | Param | eter | |
|-------------|---------------------|--|---------|-----------------------------------|----------------------------|--|
| number 1 | | Rated voltage | KV | 3.6、7.2、12 | | |
| 2 | | Nominal Current of Main Bus | А | 630、1250、1600、2000、2500、3150、4000 | | |
| 3 | | Rated Current of Branch Bus | А | 630、1250、1600、2000 | \2500\3150\4000 | |
| 4 | | Rated Frequency | HZ | 50 | | |
| 5 | Rated | short circuit breaking current (RMS) | KA | 20、31.5 | 5.40 | |
| 6 | Rated sho | ort circuit switching current (peak value) | KA | 50,80, | 100 | |
| 7 | | Rated peak tolerable current | KA | 50、80、100 | | |
| 8 | Rated sho | rt-term withstand current/duration (RMS) | KA/S | 20/4、31.5/4、40/4 | | |
| | Rated | 1 min rated short-term power frequency | kV | Interphase and relative | Primary isolation fracture | |
| 9 | insulation level | withstand voltage (RMS) | IXV | 42 | 48 | |
| | level | Rated lightning impulse withstand voltage (peak value) | KV | 75 | 85 | |
| 10 | Ra | ated voltage of auxiliary circuit | V | AC/DC 11 | 10、220 | |
| 11 | Short-tim | e power frequency withstand voltage of auxiliary circuit for 1 min | V | 200 | 0 | |
| 12 | | Protection Level | - | IP3X | | |
| 13 | Sh | ape size (wide X deep X high) | mm | 1100 (1200) × | 1200×2650 | |
| 14 | | weight | kg | About | 1000 | |

Note:The short-circuit capacity of current transformer should be considered separately. Rated current 4000A or above, with forced air cooling; When the rated current is above 1600 A, the cabinet width is 1000 mm. The equipment depth of the overhead feeding scheme behind the cabinet is 1660 mm. When the circuit breaker is used to control the 3_10 kV motor, if the starting current is less than 600A, the metal zinc oxide arrester must be added, whose specific requirements are negotiated by the user and our company. When the circuit breaker is used to turn on and off the capacitor bank, the rated current of the capacitor bank should not be greater than 80% of the rated current of the circuit breaker.

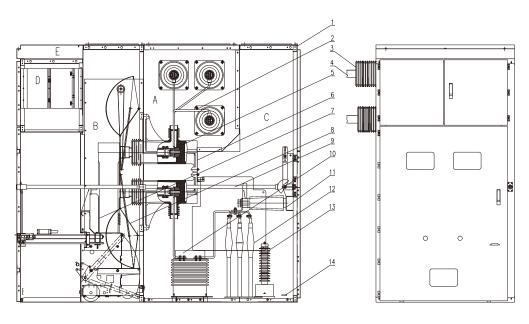


Armoured Removable AC Metal Closed Switchgear

structure characteristics

The equipment is mainly composed of cabinet body and handcart. The case is divided into five separate compartments: handcart room (also known as circuit breaker room), bus room, cable room, relay instrument room and small bus room. The protection level of the case is IP4X, the door of handcart room is opened, and the protection level of handcart is IP2X when it is in test position. There are cable in and out lines, overhead in and out lines, liaison, isolation, metering and other functional schemes. According to the use, the equipment of each scheme can be arranged to form a distribution device that can complete the design function.

Internal schematic diagram of equipment structure



- A. Bus type
- B. Handcart Room
- C. Cable room
- D. Relay Instrument Room
- E. Small Bus Room
- 1.1 relief device
- 1. Shell
- 2. Branch Bus
- 3. Bus bushing
- 4. Main Bus
- 5. Static contacts
- 6. Contact box
- 7. Current transformer
- 8. Grounding Switch
- 9. Cable
- 10. Lightning rod
- 11. Grounded main bus
- 12. Loading and unloading baffles
- 13. Valve
- 14. Secondary Joints
- 15. Circuit Breaker Handcart
- 16. Heating device
- 17. Extractable horizontal partition
- 18. Grounding Switch Operating Mechanism
- 19. Baseboard

structure characteristics

- $1. \ \ \text{Main circuit scheme diagram and primary system diagram}.$
- 2. Auxiliary circuit electrical schematic diagram, terminal arrangement diagram, such as no schematic diagram, terminal arrangement diagram, according to the manufacturer's standard.
- 3. Equipment Arrangement and Combination Diagram and Plane Arrangement Diagram.
- ${\it 4. Types, specifications and quantities of main electrical components in the equipment.}\\$
- 5. Data of bus span and height from ground should be provided for the mode and specifications of incoming and outgoing lines, such as bus connection between equipments or incoming units.
- 6. Surface color of equipment.
- 7. Other special requirements shall be settled through consultation with the manufacturer.



XGN₂

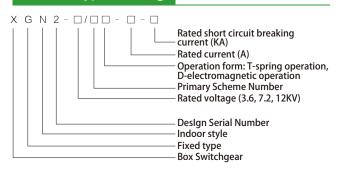
Box-type fixed metal-enclosed switchgear

Product Overview

XGN2 box-type fixed metal-enclosed switchgear (hereinafter referred to as equipment) is suitable for 3.6 12 kV three-phase AC 50Hz single bus or single bus band bypass power system, mainly used in power plants, substations, industrial and mining enterprises and other distribution sites, as receiving and distributing energy, and the circuit is controlled, protected and monitored. This product conforms to IEC60298, IEC62271-200, IEC62271-1,GB3906, GB/T11022, DL/T404 and other related standards. A variety of fixed vacuum circuit breakers can be used in the equipment, and GN30-12 (D) rotary disconnector or GN22-12 high current disconnector series products are used in the disconnector. Due to the selection of new electrical components, high technical performance, novel design, closure between cabinets, separation and closure of instrument room, bus room, circuit breaker room and cable room in cabinet, each room has independent natural ventilation (except instrument room), which has the characteristics of reasonable structure, high safety and reliability, simple operation, convenient maintenance and so on.



Product Type Meaning



Normal use environmental conditions

- 1. Ambient temperature: not higher than + 40° C, not lower than 15° C, and within 24 hours its average. Temperature is not higher than +35 degree°C, the equipment should be used to reduce capacity when exceeding the above ambient temperature.
- 2. Relative humidity: the daily average is not more than 95%, and the monthly average is not more than 90%.
- 3. Altitude: Usually the installation site is not more than 1000m above sea level. The bureau should reduce its capacity in places with an elevation of 1000m.
- 4. Earthquake Intensity: No more than 8 degrees.
- 5. The equipment should be installed without fire, explosion and violent vibration. No chemical corrosion and other serious dirty places.
- 6. If the above conditions of use are not satisfied, they should be settled through negotiation between the user and the manufacturer.

Main technical parameters

| Serial | | project | Company | Param | eter | |
|-------------|--|---|---------|---|--|--|
| number 1 | | Rated voltage | KV | 3.6、7.2、12 | | |
| 2 | | Nominal Current of Main Bus | А | 630、1250、1600、2000、2500、3150、4000、5000 | | |
| 3 | Rated Current of Branch Bus | | | 630、1250、1600、2000、250 | 00、3150、4000、5000 | |
| 4 | Rated Frequency | | | 50 | | |
| 5 | Rated | short circuit breaking current (RMS) | KA | 20、25、31.5 | 5、40、50 | |
| 6 | Rated short circuit switching current (peak value) | | | 50、63、80、1 | 00、125 | |
| 7 | Rated peak tolerable current | | | 50、63、80、100、125 | | |
| 8 | Rated shor | rt-term withstand current/duration (RMS) | KA/S | 20/4、25/4、31.5/4、40/4、50/4 | | |
| | Rated | 1 min rated short-term power frequency | KV | Interphase and relative | Primary isolation fracture | |
| 9 | insulation | withstand voltage (RMS) | rv | 42 | 48 | |
| | level | Rated lightning impulse withstand voltage (peak value) | KV | 75 | 85 | |
| 10 | | ated voltage of auxiliary circuit | V | AC/DC 11 | .0、220 | |
| 11 | Short-tim | e power frequency withstand voltage of auxiliary circuit for 1 min | V | 2000 | | |
| 12 | | Protection Level | - | IP2X when the door of encl and circuit breaker c | osure IP4X compartment ompartment opens | |
| 13 | Sh | ape size (wide X deep X high) | mm | 650 (800, 1000) ×1500 (1660) ×2300 | | |
| 14 | | weight | kg | About 700 | 0~1200 | |

Note:The cabinet depth is 1600 mm when the rated current is 1250 A or less.

The cabinet depth is 1900 mm when the rated current is 2000A or above.

When the current is high (2000A or above), the cabinet width is 1200mm, and the disconnector can use GN22/GN30.

The depth of the cabinet with bypass is 1900 mm.



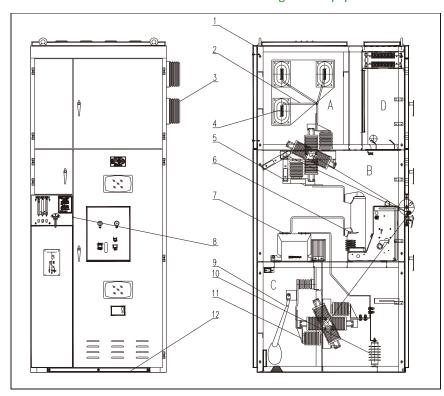
XGN₂

Box-type fixed metal-enclosed switchgear

structure characteristics

The equipment is a metal enclosed box structure. The shell is divided into four separate compartments. The protection level of the shell is IP3X. It can effectively prevent short circuit fault caused by foreign body entering the cabinet and prevent human body from approaching charged body and moving parts. There are cable in and out lines, overhead in and out lines, liaison, isolation, metering and other functional schemes. According to the use, the equipment of each scheme can be arranged to form a distribution device that can complete the design function.

Internal schematic diagram of equipment structure



- A. Bus Room
- B. Circuit Breaker Room
- C. Cable room
- D. Relay Instrument Room
- 1 Shell
- 2. Branch Bus
- 3. Bus bushing
- 4. Main Bus
- 5. Upper disconnector
- 6. Circuit Breakers
- 7. Current transformer
- 8. Mechanical locking device
- 9. Cable
- 10. Lightning arresters
- 11. Lower disconnector
- 12. Grounded main bus

structure characteristics

- $1. \ {\it Main circuit scheme diagram and primary system diagram}.$
- 2. Auxiliary circuit electrical schematic diagram, terminal arrangement diagram, such as no schematic diagram, terminal arrangement diagram, according to the manufacturer's standard.
- 3. Equipment Arrangement and Combination Diagram and Plane Arrangement Diagram.
- 4. Types, specifications and quantities of main electrical components in the equipment.
- 5. Data of bus span and height from ground should be provided for the mode and specifications of incoming and outgoing lines, such as bus connection between equipments or incoming units.
- 6. Surface color of equipment.
- 7. Other special requirements shall be settled through consultation with the manufacturer.



HXGN17

Box-type fixed metal-enclosed switchgear

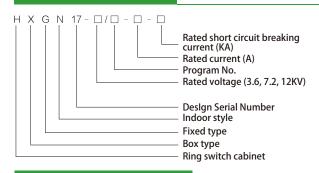
Product Overview

HXGN17 box type fixed metal closed loop switchgear (hereinafter referred to as equipment) is suitable for 3.6 12 kV three-phase AC 50Hz single bus power system is mainly used in factories, mines, residential quarters, etc.High-rise buildings, schools, parks and other power distribution occasions, as the acceptance and distribution of energy, and the actual circuit Control, protection and monitoring. It can be used for ring power supply and terminal power supply, and also for pre-installed transformer substation. Station.

This product conforms to IEC60298, IEC62271-200, IEC62271-1, GB3906, Requirements of GB/T11022, DL/T404 and other relevant standards, and with perfect "five defenses" workYes. Applicability of the equipment is strong, with small body, light weight, simple operation (manual, electric) and manipulation. Small work force, obvious fracture point, safe use, convenient maintenance, stable and reliable quality, small area occupied



Product Type Meaning



Normal use environmental conditions

- 1. Ambient temperature: not higher than + 40°C, not lower than 15°C, and within 24 hours its average. Temperature is not higher than +35 degree°C, the equipment should be used to reduce capacity when exceeding the above ambient temperature.
- 2. Relative humidity: the daily average is not more than 95%, and the monthly average is not more than 90%.
- Altitude: Usually the installation site is not more than 1000m above sea level. The bureau should reduce its capacity in places with an elevation of 1000m.
- ${\it 4. Earthquake\ Intensity: No\ more\ than\ 8\ degrees.}$
- 5. The equipment should be installed without fire, explosion and violent vibration. No chemical corrosion and other serious dirty places.
- 6. If the above conditions of use are not satisfied, they should be settled through negotiation between the user and the manufacturer.

Main technical parameters

| Serial number | | project | Company | Parame | eter | | |
|------------------|---|--|---------|-------------------------|----------------------------|--|--|
| 1 | | Rated voltage | KV | 3.6、7.2、12 | | | |
| 2 | | Nominal Current of Main Bus | А | 630 | | | |
| 3 | | Rated Current of Branch Bus | А | 630 |) | | |
| 4 | | Rated Frequency | Hz | 50 | | | |
| 5 | Rated | short circuit breaking current (RMS) | KA | 31.5- | 50 | | |
| 6 | Rated sho | rt circuit switching current (peak value) | KA | 50 | | | |
| 7 | Rated peak tolerable current | | | 50 | | | |
| 8 | Rated short-term withstand current/duration (RMS) | | | 20/4 | 4 | | |
| | Rated | 1 min rated short-term power frequency | KV | Interphase and relative | Primary isolation fracture | | |
| 9 | insulation | withstand voltage (RMS) | , NV | 42 | 48 | | |
| | level | Rated lightning impulse withstand voltage (peak value) | KV | 75 | 85 | | |
| 10 | Ra | ited voltage of auxiliary circuit | V | AC/DC 11 | 0、220 | | |
| 11 | Short-time power frequency withstand voltage of auxiliary circuit for 1 min | | | 2000 | | | |
| 12 | Protection Level | | | IP3X | | | |
| 13 | Sh | ape size (wide X deep X high) | mm | 650 (650、750) ×900×2000 | | | |
| 14 | | weight | kg | About | 180 | | |

Note

The cabinet depth is 1000mm when LKE-ALBS and LKE-VLBS side-operated load switches are equipped.



HXGN17

Box-type fixed metal-enclosed switchgear

structure characteristics

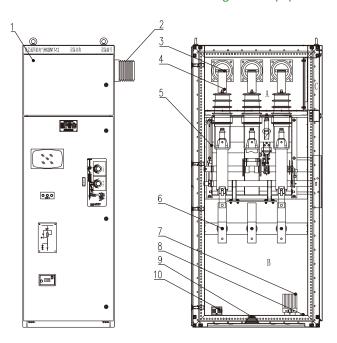
The equipment is a metal enclosed box structure. The shell is divided into three separate compartments. The protection level of the shell is IP3X. It can effectively prevent short circuit fault caused by foreign objects entering the cabinet and prevent it. Stop the human body from approaching the charged body and moving parts. There are cable access, connection, measurement, cable lifting and other functional schemes, which can be completed by arranging the equipment of each scheme according to the use. Design functional distribution device.

The cabinet frame is assembled by local welding of 8MF cold-formed steel (or C section). The cabinet structure has high strength. The cabinet is divided into busbar room, switch room and relay instrument.

Room, and can observe the operation of main components through windows and lights on doors. The equipment is equipped with safe and reliable anti-misoperation interlocking device, which fully meets the requirements of "five preventions". Fashion equipped with temperature controller and heater, to prevent the internal condensation of equipment caused by creeping, flashover accidents.

The equipment is equipped with grounding buses running through the whole equipment (specifications are determined according to system parameters), which are in good contact with the cabinet body of the functional unit for the use of directly grounded components to make the whole equipment work. The equipment is in a good grounding state. The indirect bus is connected effectively to ensure the continuity of grounding system and the safety of operators.

Internal schematic diagram of equipment structure



- A. Bus Room
- B. Load Switch and Cable Room
- C. Relay Instrument Room
- 1. Shell
- 2. Bus bushing
- 3. Branch Bus
- 4. Main Bus
- 5. Load switch
- 6. Sensors
- 7. Heaters
- 8. Grounded main bus
- 9. Tower Seal Ring
- 10. Temperature and Humidity Sensors

structure characteristics

- 1. Main circuit scheme diagram and primary system diagram.
- 2. Auxiliary circuit electrical schematic diagram, terminal arrangement diagram, such as no schematic diagram, terminal arrangement diagram, according to the manufacturer's standard.
- 3. Equipment Arrangement and Combination Diagram and Plane Arrangement Diagram.
- 4. Types, specifications and quantities of main electrical components in the equipment.
- 5. Data of bus span and height from ground should be provided for the mode and specifications of incoming and outgoing lines, such as bus connection between equipments or incoming units.
- 6. Surface color of equipment.
- 7. Other special requirements shall be settled through consultation with the manufacturer.



BloksetLow Voltage Complete Equipment

Product Overview

Blokset is a Schneider Electric Company specializing in Schneider Low Voltage Distribution Products and Industrial Control Components. The design of low-voltage distribution cabinet fully embodies and gives full play to the technical advantages of Schneider electrical low-voltage components and components. The features of the system optimize their installation in the distribution cabinet to the greatest extent. It introduces a new outline of the functional system.

Idea, reasonable design, reliable performance, is the representative of advanced technology of low-voltage distribution cabinet. Suitable for power plants and transformersElectricity substations, industrial and mining enterprises, civil buildings and infrastructure and other fields can be used as power distribution centers, horses and horses.

Power control, conversion and distribution devices such as control center, capacitance compensation and terminal distribution are used.

This product conforms to IEC 60439-1 and GB7251 "Low Voltage Switchgear and Control Equipment" GB/T 24274 "Low Voltage Pumping Switchgear and Control Equipment" IEC 68.3.3 "Seismic TestTest A S3439-1 "Internal Arc Tolerance" and other related standards.

Product Type Meaning

Blokset D: Fixed Low Voltage Distribution Cabinet

Blokset Dc: Capacitor Cabinet

Blokset Ms: Frequency Conversion Soft Cabinet

Blokset Mf: Fixed Motor Control Cabinet

Blokset Mw: Drawer Motor Control Cabinet

Blokset Mx: Drawer Motor Control Cabinet



Normal use environmental conditions

- 1. The ambient air temperature is not higher than + 60°C, not lower than 10°C, and within 24 hours its average temperature is not higher than + 35°C, the equipment is in theWhen exceeding the above environment, the volume should be reduced.
- 2. Relative humidity does not exceed 50% at the highest temperature of +40°C.Higher relative humidity is allowed at relatively lower temperatures, such as 90% at + 20%.Consideration should be given to the occasional effect of condensation due to temperature changes.
- 3. Usually, places with altitude not exceeding 2000m and above 2000m should be used for capacity reduction.
- 4. Installed in places without fire, explosion, serious dust, chemical corrosion, violent vibration and shock.
- If the above-mentioned conditions of use are not satisfied, they should be settled through negotiation between the user and the manufacturer.

Main technical parameters

| Serial number | | Cabinet type | D | Dc | Ms | |
|------------------|---|--------------------------------------|---|-------------------------------------|-------------------|----------|
| 1 | Rate | ed insulation voltage (V) | 1000 | | | |
| 2 | Rate | ed operating voltage (V) | | 400V/690 | | |
| 3 | | Overvoltage level | | IV | | |
| 4 | | Class of pollution | | 3 | | |
| 5 | F | Rated Frequency (Hz) | | 50/60 | | |
| 6 | Rated im | pulse withstand voltage (KV) | | 12 | | |
| | | Rated current (A) | Sir | ngle bus to 4000, double bus to 630 | 00 | |
| 7 | Horizontal Rated short-term withstand current (KA/1s) | | Single bus to 30/50/85, double bus to 100 | | | |
| | Rated Peak Tolerance Current (KA) | | Single bus to 63/105/187, double bus to 220 | | | |
| | | Rated current (A) | 3200A | - | 3200A | |
| 8 | | Distribution Bus | Rated short-term withstand current (KA/1s) | 30/50/85 | - | 30/50/85 |
| | Dus | Rated Peak Tolerance Current (KA) | 63/105/187 | - | 63/105/187 | |
| 9 | feed-out | Motor | - | - | 20KW and below | |
| 9 | leed-out | Distribution | 6300A | - | - | |
| 10 | Protection Level | | IP20~54 | IP20~54 | IP20~54 | |
| 11 | Partition type | | 1/2b/3b/4 | 1/2b/3b/4 | 1/2b | |
| 12 | Equipment Height (mm) | | 2200mm | 2200mm | 2200mm | |
| 13 | Eq | uipment width (mm) | 600、700、800、900、 1000、1100、1200、1300 | 700、1100 | 700、900、1100、1300 | |
| 14 | Eq | uipment Depth (mm) | 400、600、1000 | 600、1000 | 600、1000 | |



Blokset Low Voltage Complete Equipment

| Serial number | Cabinet type | | Mf | Mw | Mx | |
|------------------|-----------------------|--|---|---|-----------------|----|
| 1 | Rate | d insulation voltage (V) | 1000 | | | |
| 2 | Rate | ed operating voltage (V) | | 400V/690 | | |
| 3 | | Overvoltage level | | IV | | |
| 4 | | Class of pollution | | 3 | | |
| 5 | R | ated Frequency (Hz) | | 50/60 | | |
| 6 | Rated im | pulse withstand voltage (KV) | | 12 | | |
| | | Rated current (A) | Sir | ngle bus to 4000, double bus to 630 | 00 | |
| 7 | Horizontal Bus | Rated short-term withstand current (KA/1s) | Sing | Single bus to 30/50/85, double bus to 100 | | |
| | Dus | Rated Peak Tolerance Current (KA) | Single bus to 63/105/187, double bus to 220 | | | |
| | | Rated current (A) | 3200 | 1000 | 2100 | |
| 8 | Distribution | Distribution Bus | Rated short-term withstand current (KA/1s) | 30/50/85 | 85 | 80 |
| | Dus | Rated Peak Tolerance Current (KA) | 63/105/187 | 187 | 176 | |
| 9 | feed-out | Motor | 250KW and below | 250KW and below | 250KW and below | |
| | iccu out | Distribution | 250A and below | 250A and below | 250A and below | |
| 10 | | Protection Level | IP20~54 | IP20~54 | IP20~54 | |
| 11 | Partition type | | Partition type 1/2b/3b/4 1/2b/3b/4 | | 1/2b | |
| 12 | Equipment Height (mm) | | 2200mm | 2200mm | 2200mm | |
| 13 | Equipment width (mm) | | 700、900、1100、1300 | 500、700、900 | 600 | |
| 14 | Equ | uipment Depth (mm) | 400、600、1000 | 600、1000 | 1000 | |

structure characteristics

- 1. According to different requirements, each equipment is divided into three compartments, namely, function unit room, bus room and cable room. Separation between compartments with steel plates or high strength flame retardant plastic functional panelsThe utility model can effectively prevent the accident caused by the short circuit between the flying arc and the bus bar caused by the fault of the switching element.
- 2. Blokset's frame is composed of standard prefabricated components with prefabricated spaced modular holes. Blokset's standard modulus M = 50mm can be passed through the basic framework and extended framework. The switch cabinet is composed of various widths and depths, and the effective installation height is 40M.
- 3. The main bus is arranged in the independent bus room at the top or bottom of the switchgear cabinet, < 4000A is a single-layer horizontal bus, and > 4000A is a double-layer horizontal bus t. According to electricityFlow size, each phase is composed of 1 5 pieces of copper bars with different specifications and thickness of 5 mm. The maximum carrying capacity is 7000 A.
- 4. BloksetMx is drawer cabinet, unit standard specification is 4M/2, 2M, 3M, 4M, 6M, 9M, 12M, effective installation height is 40 modules (each module).50mm, including switch compartment and bus compartment.
- 5. LoksetMf is a fixed control cabinet. The unit standard specifications are 3M, 4M, 6M, 9M, 12M, 15M, 16M, 20M. The effective installation height is 40 modulus (per unit). The module is 50mm, including switch compartment and bus compartment.
- 6. BloksetMw is drawer motor control cabinet, unit standard specification is 1.5M, 3M, 4.5M, 6M, 9M, 12M, 15M, effective installation height is 40 modulus.(Each module is 50mm), including switch compartment and bus compartment.
- 7. The same drawer unit has complete interchangeability. The unit plug capacity configuration is detailed in Blokset sample.

structure characteristics

- 1. Main circuit scheme diagram and primary system diagram.
- Auxiliary circuit electrical schematic diagram, terminal arrangement diagram, such as no schematic diagram, terminal arrangement diagram, according to the manufacturer's standard.
- 3. Equipment Arrangement and Combination Diagram and Plane Arrangement Diagram.
- 4. Types, specifications and quantities of main electrical components in the equipment.
- 5. Data of bus span and height from ground should be provided for the mode and specifications of incoming and outgoing lines, such as bus connection between equipments or incoming units.
- 6. Surface color of equipment.
- $7.\ Other\ special\ requirements\ shall\ be\ settled\ through\ consultation\ with\ the\ manufacturer.$



MNS

Low Voltage Pumping Complete Equipment

Product Overview

MNS is a product manufactured by our company by introducing ABB technology. It is an adoption standard.A set of combined low-pressure extraction equipment for quasi-module assembly. Applicable to AC 50 60Hz,Power supply system with rated working voltage of 660V or less is widely used in power plants and substations. Receiving, feeding, reactive power compensation, electric energy metering in stations, industrial and mining enterprises and high-rise buildings,

Lighting and motor centralized control. This product conforms to IEC 60439-1, GB7251 "Low Voltage Switchgear and Control Set" Manufacturing Equipment and GB/T 24274 Low Voltage Extractive Switchgear and Control Equipment, etc. Relevant standards.



Product Type Meaning



Normal use environmental conditions

- 1. The ambient air temperature is not higher than + 40°C, not lower than 5°C, and the average temperature is abused within 24 hours. If it is not higher than + 35 degree°C, the capacity of the equipment should be reduced when it exceeds the above environment.
- 2. Relative humidity should not exceed 50% at the highest tempera ture of + 40°C. Higher relative humidity is allowed at lower temperatures, such as 90% at + 20 degree°C. Consideration should be given to the occasional effect of condensation due to temperature variations.
- 3.Usually the altitude of the installation site does not exceed 2000m For places over 2000m, the capacity should be reduced accordingly.
- 4.Installation without fire, explosion, serious dust and chemical corrosion. Places free from violent vibration and shock.
- 5. If the above-mentioned conditions of use are not satisfied, they should be settled through negotiation between the user and the manufacturer.

Main technical parameters

| Serial number | | Project | Parameter |
|---------------|--------------------------|---------------------------------|---------------------|
| 1 | Rated insulation voltage | | 660V(1000V)/AC |
| 2 | | Rated operating voltage | 380V(660V)/AC |
| 3 | | Overvoltage level | IV |
| 4 | | Class of pollution | 3 |
| 5 | | Rated Frequency | 50(60)Hz |
| 6 | | Rated impulse withstand voltage | 8KV |
| | | Rated current | To 6300A |
| 7 | Main Bus | icw | To 100KA |
| | | Rated peak tolerable current | To 220KA |
| | | Rated current | To 1600KA |
| 8 | Vertical Bus | icw | To 50KA |
| | | Rated peak tolerable current | To 110KA |
| 9 | Protection Level | | IP30 To IP54 |
| 10 | Equipment Height | | 2200mm |
| 11 | Equipment Width | | 600,800,1000,1200mm |
| 12 | | Depth of equipment | 600,800,1000,1200mm |

Explanation: 1000mm cabinet depth is recommended for back-out line scheme



MNS

Low Voltage Pumping Complete Equipment

structure characteristics

- 1. According to different requirements, each equipment is divided into three compartments, namely, function unit room, bus room and cable room. Separation between compartments with steel plates or high strength flame retardant plastic functional panelsThe utility model can effectively prevent the accident caused by the short circuit between the flying arc and the bus bar caused by the fault of the switching element.
- 2. The basic skeleton is composed of C-section assembly. C-section is formed by bending steel plate or aluminium-zinc-coated plate with modulus mounting holes of E=25mm. It is connected by high-strength bolts without any need. Special tools can be assembled into various forms of cabinets with high strength and flexibility. They can be assembled into different specifications and different uses according to different cabinet types or actual needs according to the corresponding modulus.
- 3. All buses adopt TMY-T2 series hard copper bars. Tin plating process, silver plating process and anti-oxidation process can be used on the surface of copper bars to improve the dynamic and thermal stability of buses. Temperature rise of contact surface.
- 4. Compact design, with smaller space to accommodate more functional units. The standard specifications of drawer units are 8E/4, 8E/2, 8E, 16E and 24E. Each drawer has the most functional units. The combination can reach 36, with perfect mechanical interlocking device, which ensures the safety of operation and maintenance.

| Types of drawer units | High (mm) | Width (mm) | Maximum number of units per cabinet |
|-----------------------|-----------|------------|-------------------------------------|
| 8E/4 | 200 | 150 | 36 |
| 8E/2 | 200 | 300 | 18 |
| 8E | 200 | 600 | 9 |
| 16E | 400 | 600 | 4 |
| 24E | 600 | 600 | 3 |

The same drawer unit has complete interchangeability. The plug capacity configuration of the drawer unit is detailed in the table below (recommended rated current 400A) and below, using the drawer unit structure.

| Types of drawer units | 8E/4 | 8E/2 | 8E | 16E | 24E |
|-----------------------|------|------|------|------|------|
| Rated current | 45A | 63A | 250A | 400A | 630A |

The drawer unit is completely independent, the drawer time is completely isolated. When the drawer unit is pulled out, the main power supply of the equipment does not need to be cut off. When the adjacent drawer unit is continuously electrified, the drawer insertion/pullout operation will not occur the danger of electric shock.

structure characteristics

- 1. Main circuit scheme diagram and primary system diagram.
- Auxiliary circuit electrical schematic diagram, terminal arrangement diagram, such as no schematic diagram, terminal arrangement diagram, according to the manufacturer's standard.
- 3. Equipment Arrangement and Combination Diagram and Plane Arrangement Diagram.
- 4. Types, specifications and quantities of main electrical components in the equipment.
- 5. Data of bus span and height from ground should be provided for the mode and specifications of incoming and outgoing lines, such as bus connection between equipments or incoming units.
- 6. Surface color of equipment.
- 7. Other special requirements shall be settled through consultation with the manufacturer.



GCK

Low Voltage Pumping Complete Equipment

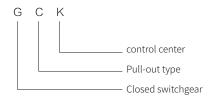
Product Overview

GCK Low Voltage Pumping Complete Equipment, Suitable for AC 50 60Hz, rated workersPower supply system with voltage up to 660V and rated current up to 6300A is widely used in power generation.

Low-voltage distribution systems in power plants, substations, industrial and mining enterprises, high-rise buildings, etc.Receiving, Feeding, Reactive Power Compensation, Electric Energy Measurement, Lighting and Motor Control Center, etc.Ability to convert, distribute and control.This product conforms to IEC 60439-1, GB7251 "Low Voltage Switchgear and Control Set"Manufacturing Equipment and GB/T 24274 Low Voltage Extractive Switchgear and Control Equipment, etc.Relevant standards



Product Type Meaning



Normal use environmental conditions

- 1. The ambient air temperature is not higher than + 40°C, not lower than 5°C, and the average temperature is abused within 24 hours. If it is not higher than + 35 degree°C, the capacity of the equipment should be reduced when it exceeds the above environment.
- 2. Relative humidity should not exceed 50% at the highest temperature of + 40°C. Higher relative humidity is allowed at lower temperatures, such as 90% at + 20 degree°C. Consideration should be given to the occasional effect of condensation due to temperature variations.
- 3. Usually the altitude of the installation site does not exceed 2000m. For places over 2000m, the capacity should be reduced accordingly.
- Installation without fire, explosion, serious dust and chemical corrosion. Places free from violent vibration and shock.
- If the above-mentioned conditions of use are not satisfied, they should be settled through negotiation between the user and the manufacturer.

Main technical parameters

| Serial number | | Project | Parameter |
|---------------|--------------------------|---------------------------------|---------------------|
| 1 | Rated insulation voltage | | 660V(1000V)/AC |
| 2 | | Rated operating voltage | 380V(660V)/AC |
| 3 | | Overvoltage level | IV |
| 4 | | Class of pollution | 3 |
| 5 | | Rated Frequency | 50(60)Hz |
| 6 | | Rated impulse withstand voltage | 8KV |
| | | Rated current | To 6300A |
| 7 | Main Bus | icw | To 100KA |
| | | Rated peak tolerable current | To 220KA |
| | | Rated current | To 1250KA |
| 8 | Vertical Bus | icw | To 50KA |
| | | Rated peak tolerable current | To 110KA |
| 9 | Protection Level | | IP30 To IP54 |
| 10 | Equipment Height | | 2200mm |
| 11 | Equipment Width | | 600,800,1000,1200mm |
| 12 | | Depth of equipment | 800,1000,1200mm |

Explanation: 1000mm cabinet depth is recommended for back-out line scheme



GCK

Low Voltage Pumping Complete Equipment

structure characteristics

- According to different requirements, each equipment is divided into three compartments, namely, function unit room, bus room and cable
 room. The compartments are separated from each other by steel plates and are independent of each other for effective prevention. Acci
 dents caused by short circuit between flying arc and busbar caused by faults of stop switch elements.
- 2. The basic skeleton is composed of C-section assembly. C-section is made of steel plate or zinc plate with modulus mounting hole E=25mm, which is connected by high-strength bolts without any need. Special tools can be assembled into various forms of cabinets with high strength and flexibility. The internal dimension of cabinet body, spare parts dimension and compartment dimension can be changed by modularization according to whether or not. With the same cabinet type or actual needs, the structure and extraction units are arbitrarily combined into cabinets of different specifications and different uses.
- 3. All buses adopt TMY-T2 series hard copper bars. Tin plating process, silver plating process and anti-oxidation process can be used on the surface of copper bars to improve the dynamic and thermal stability of buses. Temperature rise of contact surface.
- 4. Each drawer cabinet can install up to 9 one unit drawers or 18 8E/2 unit drawers or 36 8E/4 unit drawers.

| Types of drawer units | High (mm) | Width (mm) | Maximum number of units per cabinet |
|-----------------------|-----------|------------|-------------------------------------|
| 8E/4 | 200 | 150 | 36 |
| 8E/2 | 200 | 300 | 18 |
| 8E | 200 | 600 | 9 |
| 16E | 400 | 600 | 4 |
| 24E | 600 | 600 | 3 |

The change of drawer only changes in height and size, and its depth and size remain unchanged. The same drawer unit has complete interchangeability. The plug capacity configuration of drawer unit is detailed in the table below.

| Types of drawer units | 8E/4 | 8E/2 | 8E | 16E | 24E |
|-----------------------|------|------|------|------|------|
| Rated current | 45A | 100A | 250A | 400A | 630A |

The drawer unit is completely independent, the drawer time is completely isolated. When the drawer unit is pulled out, the main power supply of the equipment does not need to be cut off. When the adjacent drawer unit is continuously electrified, the drawer insertion/pullout operation will not occur the danger of electric shock.

structure characteristics

- $1. \ \ \text{Main circuit scheme diagram and primary system diagram}.$
- 2. Auxiliary circuit electrical schematic diagram, terminal arrangement diagram, such as no schematic diagram, terminal arrangement diagram, according to the manufacturer's standard.
- 3. Equipment Arrangement and Combination Diagram and Plane Arrangement Diagram.
- 4. Types, specifications and quantities of main electrical components in the equipment.
- 5. Data of bus span and height from ground should be provided for the mode and specifications of incoming and outgoing lines, such as bus connection between equipments or incoming units.
- 6. Surface color of equipment.
- 7. Other special requirements shall be settled through consultation with the manufacturer.



GCS

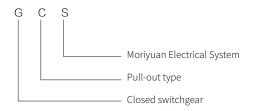
Low Voltage Pumping Complete Equipment

Product Overview

GCS Low Voltage Pumping Complete Equipment is our company to meet the needs of design departments and power users. Requirements for the design and production of products with high technical performance indicators, suitable for AC 50 60Hz, Power supply system with rated working voltage of 660V and rated current of 4000A or less is widely used in power generation. Power plants, petroleum, chemical industry, metallurgy, textile, high-rise buildings as electricity, feed, reactive power compensation Compensation, electric energy metering, lighting and centralized control of motors. It has high interrupting and connecting ability and dynamic heat. Good stability, flexible electrical scheme, convenient combination, strong seriality and practicability, novel structure and protectionHigh-grade features, especially suitable for large single-unit capacity of power plants, large-scale petrochemical industries such as low-voltage Power control center and motor control center meet the special interface with computer. This product conforms to IEC 60439-1 and GB7251 "Low Voltage Switchgear and Control Equipment"And GB/T 24274 "Low Voltage Pumping Switchgear and Control Equipment" and other related standards.



Product Type Meaning



Normal use environmental conditions

- 1. The ambient air temperature is not higher than + 40°C, not lower than 5°C, and the average temperature is abused within 24 hours. If it is not higher than + 35 degree°C, the capacity of the equipment should be reduced when it exceeds the above environment.
- 2. Relative humidity should not exceed 50% at the highest temperature of +40°C.Higher relative humidity is allowed at lower temperatures, such as 90% at +20 degree°C.Consideration should be given to the occasional effect of condensation due to temperature variations.
- 3. Usually the altitude of the installation site does not exceed 2000m. For places over 2000m, the capacity should be reduced accordingly.
- 4. Installation without fire, explosion, serious dust and chemical corrosion. Places free from violent vibration and shock.
- 5. If the above-mentioned conditions of use are not satisfied, they should be settled through negotiation between the user and the manufacturer.

Main technical parameters

| Serial number | | Project | Parameter |
|---------------|--------------------------|---------------------------------|--------------------------|
| 1 | Rated insulation voltage | | 660V(1000V)/AC |
| 2 | | Rated operating voltage | 380V(660V)/AC |
| 3 | | Overvoltage level | IV |
| 4 | | Class of pollution | 3 |
| 5 | | Rated Frequency | 50(60)Hz |
| 6 | | Rated impulse withstand voltage | 8KV |
| | | Rated current | To 4000A |
| 7 | Main Bus | icw | To 80KA |
| | | Rated peak tolerable current | To 176KA |
| | | Rated current | To 1000KA |
| 8 | Vertical Bus | icw | To 50KA |
| | | Rated peak tolerable current | To 105KA |
| 9 | Protection Level | | IP30 To IP54 |
| 10 | Equipment Height | | 2200mm |
| 11 | | Equipment Width | 400, 600,800,1000,1200mm |
| 12 | | Depth of equipment | 600, 800,1000,1200mm |



GCS

Low Voltage Pumping Complete Equipment

structure characteristic

- 1. According to different requirements, each equipment is divided into three compartments, namely, function unit room, bus room and cable room. Separated from each other by steel plate or high strength flame retardant plastic functional plate, the destructive effect of fault arc can be minimized, and the J presenting degree can be reduced, and the units are relatively independent and have no influence on each other. 2. Compact structure, small cabinet body, strong versatility of parts and components, flexible assembly, E = 20mm modulus, structure and extraction unit can be arbitrarily combined to meet the needs of system design.
- 3. The specific heat capacity of the adapter is high, which reduces the additional temperature rise caused by the temperature rise of the adapter to the connector, cable head and baffle.
- 4. Bus bars are all made of Ding M Ya Ding 2 series hard copper bars. Tin plating, silver plating and anti-oxidation processes can be used on the surface of copper bars according to the need to improve the dynamic and thermal stability of buses and the temperature rise of contact surfaces.
- 5. The height of single-layer drawer unit is 160 mm, which is divided into five size series: 1/2 unit, 1 unit, 1.5 unit, 2 unit and 3 unit. The rated current of unit circuit is below 400A.

| Types of drawer units | High (mm) | Width (mm) | Maximum number of units per cabinet |
|-----------------------|-----------|------------|--|
| 1/2unit | 160 | 300 | 22 |
| lunit | 160 | 600 | 11 |
| 1.5unit | 240 | 600 | 7 |
| 2unit | 320 | 600 | 5 |
| 3unit | 480 | 600 | 3 |

6. The change of drawer only changes in height and dimension, and its depth and dimension remain unchanged. The same drawer unit has complete interchangeability. The plug capacity configuration of drawer unit is detailed in the table below.

| Types of drawer units | 1/2unit | 1unit | 1.5unit | 2unit | 3unit |
|-----------------------|---------|-------|---------|-------|-------|
| Rated current | 50A | 250A | | 400A | |

structure characteristic

- 1. Main circuit scheme diagram and primary system diagram.
- 2. Auxiliary circuit electrical schematic diagram, terminal arrangement diagram, such as no schematic diagram, terminal arrangement diagram, according to the manufacturer's standard.
- 3. Equipment Arrangement and Combination Diagram and Plane Arrangement Diagram.
- 4. Types, specifications and quantities of main electrical components in the equipment.
- 5. Data of bus span and height from ground should be provided for the mode and specifications of incoming and outgoing lines, such as bus connection between equipments or incoming units.
- 6. Surface color of equipment.
- 7. Other special requirements shall be settled through consultation with the manufacturer.



GGD

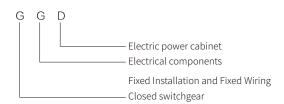
Low Voltage Fixed Equipment Set

Product Overview

GGD Low Voltage Fixed Set Equipment is suitable for AC 50Hz, rated working voltage to 660V, rated current to 6300A and below power supply system. It is widely used in low voltage distribution systems in power plants, substations, industrial and mining enterprises, high-rise buildings and other fields as power receiving, feeding, reactive power compensation, energy metering, etc. Electric energy conversion, distribution and control, such as lighting and motor control center. Based on the principle of safety, economy, rationality and reliability, the product has the characteristics of high breaking capacity, good dynamic and thermal stability, flexible electrical scheme, convenient combination, strong seriality and practicability, novel structure, etc. This product meets IEC60439-1, GB7251 "Low Voltage Switchgear and Control Equipment" and other related standards.



Product Type Meaning



Normal use environmental conditions

- 1. The ambient air temperature is not higher than + 40°C, not lower than 5°C, and the average temperature is abused within 24 hours. If it is not higher than + 35 degree°C, the capacity of the equipment should be reduced when it exceeds the above environment.
- 2. Relative humidity should not exceed 50% at the highest temperature of + 40°C. Higher relative humidity is allowed at lower temperatures, such as 90% at + 20 degree°C. Consideration should be given to the occasional effect of condensation due to temperature variations.
- 3. Usually the altitude of the installation site does not exceed 2000m. For places over 2000m, the capacity should be reduced accordingly.
- 4. Installation without fire, explosion, serious dust and chemical corrosion. Places free from violent vibration and shock.
- If the above-mentioned conditions of use are not satisfied, they should be settled through negotiation between the user and the manufacturer.

Main technical parameters

| Serial number | Project | | Parameter |
|---------------|---------------------------------|------------------------------|---------------------|
| 1 | | Rated insulation voltage | 660V(1000V)/AC |
| 2 | | Rated operating voltage | 380V(660V)/AC |
| 3 | | Overvoltage level | IV |
| 4 | | Class of pollution | 3 |
| 5 | | Rated Frequency | 50(60)Hz |
| 6 | Rated impulse withstand voltage | | 8KV |
| | | Rated current | To 6300A |
| 7 | Main Bus | icw | To 100KA |
| | | Rated peak tolerable current | To 220KA |
| 8 | | Protection Level | IP30 |
| 9 | Equipment Height | | 2200mm |
| 10 | Equipment Width | | 600,800,1000,1200mm |
| 11 | | Depth of equipment | 600, 800mm |
| 12 | | Depth of equipment | 600,800,1000,1200mm |

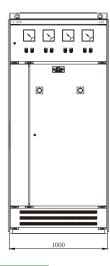


GGDLow Voltage Fixed Equipment Set

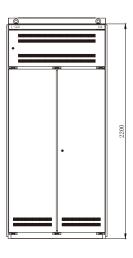
structure characteristics

The cabinet body of this equipment is assembled in the form of universal cabinet. Because of its flexible and convenient assembly, modular design of parts and components, high universal coefficient, it can realize pre-production, shorten the production cycle and improve production efficiency. The equipment is designed to operate before and after the cabinet, exit after the cabinet and refuse to maintain before and after the cabinet. 1. The abundant mega-frame is usually made of SMF cold-formed steel welded and assembled locally, or C-shaped steel assembled. The profile is equipped with ZOmm modulus mounting holes, which are connected by high-strength bolts. It can be assembled into various forms of cabinets without special tools. It has high strength and flexibility. 2. When the cabinet body is designed, the problem of heat dissipation in rejection operation is fully taken into account. There are different numbers of cooling groove holes at both ends of the cabinet body. When the electrical components in the cabinet are heated, the heat rises and is discharged through the upper groove holes, while the cold air is continuously supplemented by the lower groove holes into the cabinet, so that the sealed cabinet body forms a natural opening from the bottom to the top. Wind duct, to achieve the purpose of heat dissipation. 3. The cabinet door is connected with the frame by rotating axle movable hinge. A mountain-shaped rubber-plastic strip is embedded in the fold of the installation and disassembly convenient door. When closing the door, the strip between the door and the frame has a certain compression stroke, which can prevent the direct collision between the door and the cabinet body, and improve the protection level of the cabinet body. The protection level of the rejector is IP 30, which can be selected between IPZO and IP4O according to the user's installation site requirements. 4. Bus bar is installed horizontally on the top of cabinet body. Each phase is composed of single or multiple rectangular copper bars, supported by high strength busbar frame, which has good dynamic stability. All buses adopt lower M Ya Ding 2 series hard copper bars. Tin plating process, silver plating process and anti-oxidation process can be used on the surface of copper bars according to the need to improve the dynamic and thermal stability of buses and the temperature rise of contact surfaces.

Internal schematic diagram of equipment structure







structure characteristics

When ordering, the user should provide the following information:

- 1. Main circuit scheme diagram and primary system diagram.
- Auxiliary circuit electrical schematic diagram, terminal arrangement diagram, such as no schematic diagram, terminal arrangement diagram, according to the manufacturer's standard.
- 3. Equipment Arrangement and Combination Diagram and Plane Arrangement Diagram.
- 4. Types, specifications and quantities of main electrical components in the equipment.
- 5. Data of bus span and height from ground should be provided for the mode and specifications of incoming and outgoing lines, such as bus connection between equipments or incoming units.
- 6. Surface color of equipment.
- 7. Other special requirements shall be settled through consultation with the manufacturer.



XLPower Distribution Box

Product Overview

XL low-voltage power distribution box is suitable for industrial and civil buildings with AC 50Hz, rated working voltage 660V and less than three-phase four-wire or three-phase five-wire power system, as power distribution, lighting distribution. This product meets IEC60439-1, GB7251 ((Low Voltage Switchgear and Control Equipment) and other related standards.

Product Type Meaning



Normal use environmental conditions

- 1. The ambient air temperature is not higher than + 40°C, not lower than 5°C, and the average temperature is abused within 24 hours. If it is not higher than + 35 degree°C, the capacity of the equipment should be reduced when it exceeds the above environment.
- 2. Relative humidity should not exceed 50% at the highest temperature of + 40°C. Higher relative humidity is allowed at lower temperatures, such as 90% at + 20 degree°C. Consideration should be given to the occasional effect of condensation due to temperature variations.
- 3. Usually the altitude of the installation site does not exceed 2000m. For places over 2000m, the capacity should be reduced accordingly.
- 4. Installation without fire, explosion, serious dust and chemical corrosion. Places free from violent vibration and shock.
- If the above-mentioned conditions of use are not satisfied, they should be settled through negotiation between the user and the manufacturer.



Main technical parameters

| Serial number | Project | Parameter |
|------------------|------------------------------|---------------------|
| 1 | Rated insulation voltage | 500V/660V(1000V)/AC |
| 2 | Rated operating voltage | 220V/380V(660V)/AC |
| 3 | Overvoltage level | III |
| 4 | Class of pollution | 3 |
| 5 | Rated Frequency | 50Hz |
| 6 | Rated current | To 630A |
| 7 | icw | To 15KA |
| 8 | Rated peak tolerable current | To 30KA |
| 9 | Protection Level | IP40 ToIP54 |
| 10 | Equipment Height | 1600,1800mm |
| 11 | Equipment Width | 600,700,800mm |
| 12 | Depth of equipment | 350,450mm |

Note: Other structural dimensions can be customized according to customer requirements.

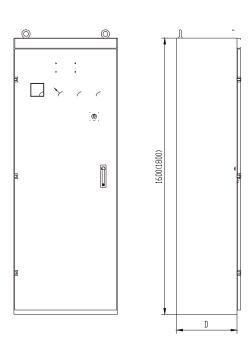


XL Power Distribution Box

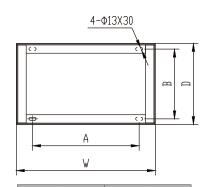
structure characteristics

- 1. This product is a closed structure, reliable wall installation, front operation and maintenance; also can be installed off the wall, front operation, double-sided maintenance.
- 2. The box body is formed by bending ports of high quality cold-rolled steel plates. It has high mechanical strength and good overall performance. It can also provide stainless steel products according to household demand.
- 3. The front door is connected with the box body by multiple soft copper wires, which constitutes a complete grounding protection circuit.
- 4. High voltage electrostatic spraying technology is adopted on the surface of the box body, which has strong adhesion, good texture, beautiful and durable.
- 5. The four corners of the top of the box are equipped with lifting rings for lifting and transportation.
- 6. The protection level of the box body is! P40 can be selected between IP20 and IP54 according to the user's installation site requirement. 7. The box can be used by a single unit or by multiple arrays. It has the characteristics of flexible installation, simple operation and convenient maintenance.

Outline sketch



Installation Dimensions of Equipment



| Shape size (mm) | | Installation dimensions(mm) | |
|-----------------|-----|--------------------------------|-----|
| W | D | А | В |
| 600 | 350 | 460 | 300 |
| 600 | 450 | 460 | 400 |
| 700 | 350 | 560 | 300 |
| 700 | 450 | 560 | 400 |
| 800 | 350 | 660 | 300 |
| 800 | 450 | 660 | 400 |

structure characteristics

When ordering, the user should provide the following information:

- 1. Main circuit scheme diagram and primary system diagram.
- 2. Auxiliary circuit electrical schematic diagram, terminal arrangement diagram, such as no schematic diagram, terminal arrangement diagram, according to the manufacturer's standard.
- 3. Equipment Arrangement and Combination Diagram and Plane Arrangement Diagram.
- 4. Types, specifications and quantities of main electrical components in the equipment.
- 5. Data of bus span and height from ground should be provided for the mode and specifications of incoming and outgoing lines, such as bus connection between equipments or incoming units.
- 6. Surface color of equipment.
- 7. Other special requirements shall be settled through consultation with the manufacturer.



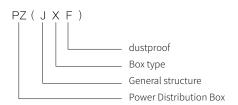
PZ(JXF) Universal Control Box

Product Overview

PZ (JXF) low voltage universal control box is suitable for industrial and civil buildings with AC 50 Hz, rated working voltage 660 V and below three-phase four-wire or three-phase five-wire power system, as power distribution, lighting distribution and power control.

This product meets IEC60439-1, GB7251 "Low Voltage Switchgear and Control Equipment" and other related standards.

Product Type Meaning





Normal use environmental conditions

- 1. The ambient air temperature is not higher than + 40 °C, not lower than 5 °C, and the average temperature is abused within 24 hours. If it is not higher than + 35 degree °C, the capacity of the equipment should be reduced when it exceeds the above environment.
- 2. Relative humidity should not exceed 50% at the highest temperature of + 40°C. Higher relative humidity is allowed at lower temperatures, such as 90% at + 20 degree°C. Consideration should be given to the occasional effect of condensation due to temperature variations.
- 3. Usually the altitude of the installation site does not exceed 2000m. For places over 2000m, the capacity should be reduced accordingly.
- 4. Installation without fire, explosion, serious dust and chemical corrosion. Places free from violent vibration and shock.
- 5. If the above-mentioned conditions of use are not satisfied, they should be settled through negotiation between the user and the manufacturer.

Main technical parameters

| Serial number | Project | Parameter |
|------------------|------------------------------|-----------------------|
| 1 | Rated insulation voltage | 500V/AC |
| 2 | Rated operating voltage | 220V/380V/AC |
| 3 | Overvoltage level | III |
| 4 | Class of pollution | 3 |
| 5 | Rated Frequency | 50Hz |
| 6 | Rated current | To 250A |
| 7 | lcw | To 15KA |
| 8 | Rated peak tolerable current | To 30KA |
| 9 | Protection Level | IP40 To IP54 |
| 10 | Equipment Height | 400,500,600,800,900mm |
| 11 | Equipment Width | 300,400,500,600,700mm |
| 12 | Depth of equipment | 200,250,280mm |

Note: Other structural dimensions can be customized according to customer requirements.

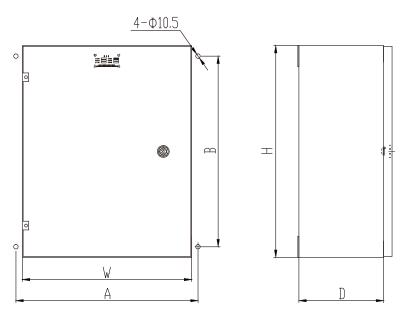


PZ(JXF) Universal Control Box

structure characteristics

- 1. The product is a closed structure with wall mounting and front operation and maintenance.
- 2. The box body is made of high-quality cold-rolled steel plate by bending and welding. It has high mechanical strength and good overall performance. It can also provide stainless steel products according to customers' needs.
- $3. \ The \ door \ of \ the \ box \ is \ connected \ with \ the \ box \ body \ by \ multiple \ soft \ copper \ wires, \ which \ constitutes \ a \ complete \ grounding \ protection \ circuit.$
- 4. High voltage electrostatic spraying technology is adopted on the surface of the box body, which has strong adhesion, good texture, beautiful and durable.
- 5. The protection level of the cabinet is IP40, which can be selected between IP20 and IP54 according to the user's installation site requirements.
- 6. The box body has the characteristics of flexible installation, simple operation and convenient maintenance.

Equipment outline size and installation size



| Shape size (mm) | | Installation dimensions(mm) | |
|--------------------|-----|--------------------------------|-----|
| W | D | А | В |
| 300 | 200 | 330 | 350 |
| 300 | 280 | 330 | 350 |
| 400 | 200 | 430 | 450 |
| 400 | 280 | 430 | 450 |
| 500 | 200 | 530 | 550 |
| 500 | 280 | 530 | 550 |
| 600 | 200 | 630 | 750 |
| 600 | 280 | 630 | 750 |
| 700 | 200 | 730 | 850 |
| 700 | 280 | 730 | 850 |

structure characteristics

When ordering, the user should provide the following information:

- 1. Main circuit scheme diagram and primary system diagram.
- 2. Auxiliary circuit electrical schematic diagram, terminal arrangement diagram, such as no schematic diagram, terminal arrangement diagram, according to the manufacturer's standard.
- 3. Equipment Arrangement and Combination Diagram and Plane Arrangement Diagram.
- 4. Types, specifications and quantities of main electrical components in the equipment.
- 5. Data of bus span and height from ground should be provided for the mode and specifications of incoming and outgoing lines, such as bus connection between equipments or incoming units.
- 6. Surface color of equipment.
- $7.\ Other\ special\ requirements\ shall\ be\ settled\ through\ consultation\ with\ the\ manufacturer.$



XGM Distribution Box (Distribution Board)









Purpose

XGM distribution box is suitable for AC 50-60HZ, rated voltage AC 380V below the final distribution equipment, power distribution box lighting distribution box and control distribution box.

Characteristic

Rated current: 250A

Rated Insulation Voltage Ui: 500VAC Rated operating voltage: 380V, 220VAC Rated Short-term Tolerance Current lcw:4KA Protection level of cabinet body: IP54, IP30

Structure and characteristics

Distribution box integrates overload, short circuit, metering and dual power supply control system as one of the power devices. The front door can be equipped with instrument control buttons, etc. The product customers require custom design. The control box has the characteristics of compact and reasonable layout design, safe circuit configuration, reliability, good performance and durability. At the same time, it is suitable for making all kinds of motor starter cabinets, including full voltage direct starter cabinet, full digital control soft starter cabinet, auto-decoupling starter cabinet, star triangle starter cabinet, multi-speed motor starter cabinet, etc. There are dozens of primary line scheme numbers or derivative scheme numbers for selection and use, which have a wide range of applications.



XL-21 Low Voltage Switchgear Set

Purpose

XL-21 series power distribution boxes are suitable for modern buildings. They are used as control in the power distribution system of industrial and mining enterprises. The AC frequency is 50HZ, the voltage is 500V or less, and the load current is not more than 400A for power distribution and lighting distribution of three-phase four-wire power system. Products set overload, short circuit, metering, dual power control system as one of the power devices, the right side of the box door and the upper door can be set up handle operation; front door can be installed meters, control buttons, etc., product customers require custom design. The control box has the characteristics of compact and reasonable layout design, safe and reliable circuit configuration, good performance and durability.

Characteristic

Rated current: 400A

Rated Insulation Voltage Ui: 660VAC Rated operating voltage: 380V, 220VAC Rated Short-term Tolerance Current lcw:4KA Protection level of cabinet body: IP54, IP30





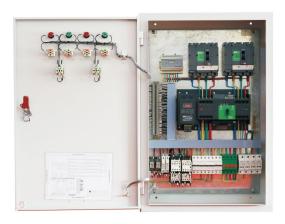




SDY Low Voltage Switchgear Set







Purpose

Distribution box is suitable for AC 50 - 60Hz, rated voltage AC 380V dual power supply switching box, generally used in high demand occasions. Its machines require 24 hours of uninterrupted electricity. It has two sets of power supply lines, which automatically switch to the standby line when the main power supply is cut off. Mainly used in fire fighting equipment, emergency lighting, elevator, such as: fire distribution box, control fan box, sewage pump control box, fire pump control box, elevator control box and other equipment.

Conditions of Use

- 1. The ambient air temperature is not higher than + 40 degree°C, and the average temperature within 24 hours is not higher than + 35°C.
- 2. Clean air, relative humidity at the highest temperature + 40°C. The relative humidity is not more than 50% at low temperature, such as 90% at + 20 degree °C.
- 3. No fire, explosion danger, serious dust, chemical corrosion and severe earthquake.
- 4. The altitude does not exceed 2000 m.
- 5. Switchgear is suitable for transportation and storage at the following temperatures, 25 °C +55 °C, within a short period of time (no more than 24 hours) no more than +70 °C.

Structure and characteristics

Dual power distribution box and distribution cabinet are divided into two routes, one is equipped, the common power supply is broken or repaired or cut off in case of fire, the common power supply is cut off and automatically switched to the standby circuit, usually the standby circuit comes from another transformer or even another high-voltage inlet. Usually used in the fire load is when the fire requires continued operation, or important load, to ensure continuous power supply, but there is a conversion time, that is, there will be a period of time without electricity, if there is no switching time to install UPS or EPS and so on. There are two kinds of double power supply switching distribution boxes, BC and PC.



Prisma E-Switch cabinet

Characteristic

Rated insulation voltage 1000V

Maximum rated current: WM Series 630A, FS Series 4000A

Rated Short-term Tolerance Current Lew: WM Series 25KA Is, FS Series 85KA Is

IP Protection Level: IP30, IP54

Protection level of cabinet body: IP30, IP40

Advantage

Prefabricated parts structure: flexible assembly cabinet and component structure;

Standardized and simple component installation and distribution module;

Modular design concept: Unit modular height as the basis of cabinet and functional unit size design; More than 100 application schemes combined with low voltage distribution and control components;

Various cabinet specifications can be combined and extended.

Standardized cabinet design: Component layout takes full account of heat dissipation and power bearing requirements; for switchgear environment and different applications, well-planned cable routing.

Scope of application

Widely applicable to five major markets: industry, energy and infrastructure, public and commercial construction, civil housing, data centers.









Prisma E-Switch cabinet

Characteristic

Rated current: 630 A

Rated Insulation Voltage Ui: 1000VAC Rated operating voltage: S690VAC Rated impulse withstand voltage: 8KV

Rated short-term withstand current lew: 20KA Is

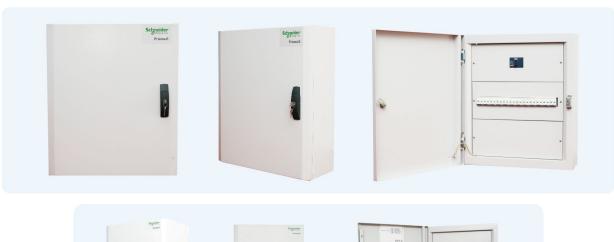
Rated Peak Tolerance Current Ipk: 42KA Protection level of cabinet body: IP30, IP40

Advantage

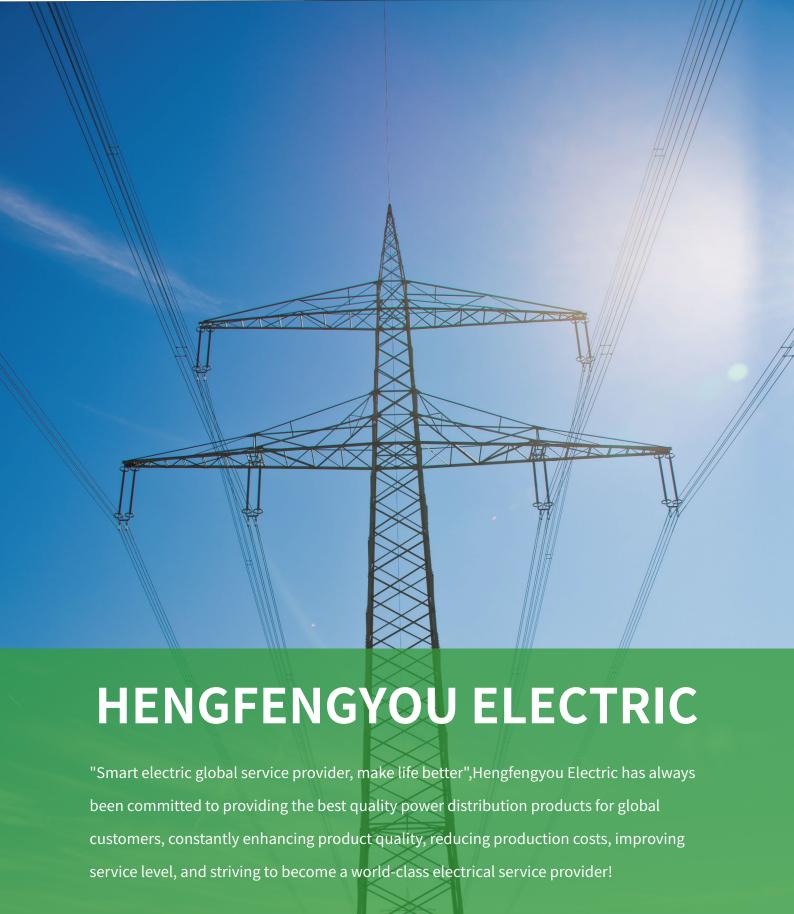
Prisma E 630A Distribution System, based on modular components, integrates perfectly with Schneider component products, and forms a high-quality, cost-effective standardized distribution system application program.

Scope of application

Power overhaul boxes and lighting distribution boxes for low-voltage main distribution are also suitable for small office space, service industry, factory buildings, power plants, steel plants, subway, ports, etc.









青岛恒丰友电气工程有限公司

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