Perfecting the Power,Ranking the Life.

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三和电力
SANHE POWER TECH

Components for power safety, energy conservation, and power quality

PRODUCTS BROCHURE



Sanhe Power Tech (Shenzhen) Co.,Ltd.

Company Profile

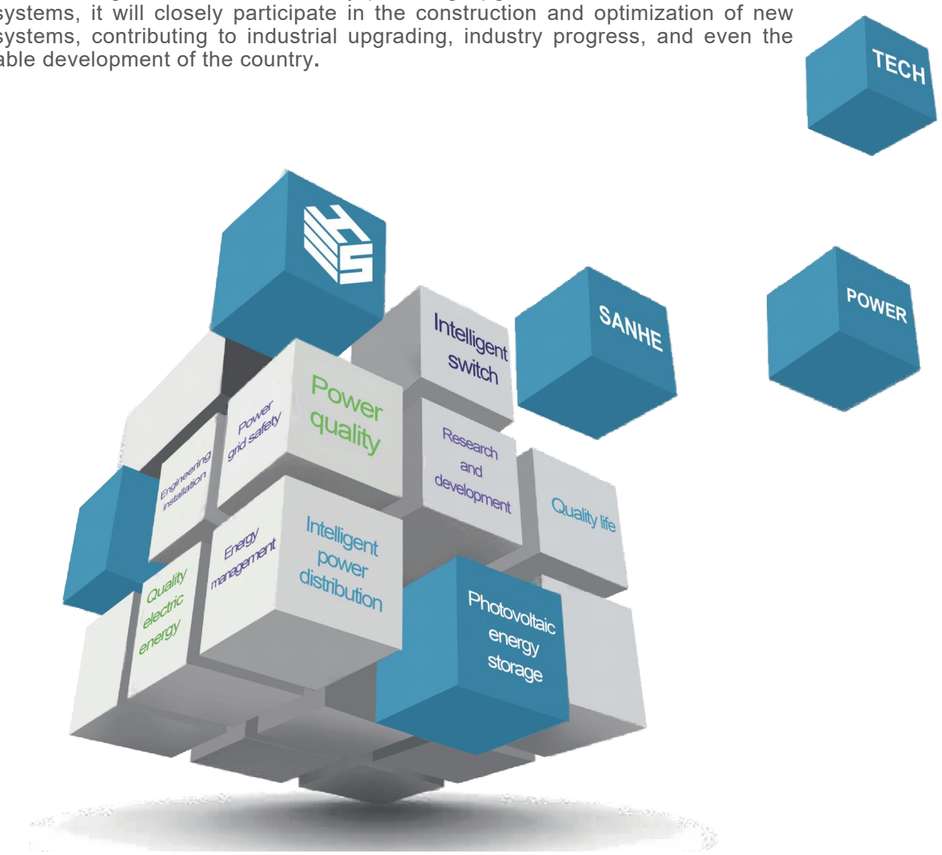
Sanhe Power Tech (Shenzhen)Co.,Ltd. with power electronics technology at its core, specializes in the R&D of power quality products and system solution services, having cultivated the industry for over 20 years. Driven by technological innovation and grounded in power quality expertise, the company has expanded into smart microgrids and diverse new power system applications. It possesses accumulated technical experience in distributed energy sectors including energy storage systems, photovoltaics, green hydrogen production, and electric vehicle charging.

In line with the national "dual carbon" strategy, the company actively lays out the "new quality productivity" of the new power system. Its subsidiary, Wuxi Lifeng Energy Storage Co., LTD., focuses on energy storage research and development, while Wuxi Lifeng Electric Co., Ltd. is responsible for the research and dvelopment and production of key equipment, jointly promoting industrial upgrading.

The company's main business includes
A full range of products and complete solutions for power quality detection and control.
Distributed new energy system products and advanced solutions.
Strong and weak current engineering based on "dual carbon" and energy efficiency management.

In the past more than 20 years, adhering to the values of "Care Profoundly, Carry out Persistently", the company has accumulated a large number of clients in industries related to national economy and people's livelihood, including large central enterprises such as China National Petroleum Corporation and China Petroleum & Chemical Corporation, infrastructure enterprises Shenzhen Water And Enviroment Group, and high-end manufacturing enterprises such as BYD and Inovance Technology.

Based on years of accumulation in power quality technology and experience, Sanhe Power Tech will combine new power electronics and advanced intelligent software and hardware technologies. While continuously providing upgrade solutions for traditional power systems, it will closely participate in the construction and optimization of new power systems, contributing to industrial upgrading, industry progress, and even the sustainable development of the country.





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Certification & Honor

Since its establishment, Sanhe Power Tech (Shenzhen) Co.,Ltd. has been constantly enhancing its own strength and undertaking social responsibilities, accumulating rich honors and qualifications.

AAA Credit rating

A council member of the China Electrical Equipment Industry Association

The software development system has passed the CMMI assessment of SEI in the United States

Member of Energy Industry Standards Committee (NEA) and Power Supply Standards Committee (SPSTS)

Members of IEEE, IEC and other expert association.

ISO9001 Quality Management System

ISO14001 Environmental Management System

ISO 45001 Occupational Health and Safety Management System

ISO 50001 Energy Management System

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The company's multiple technologies lead the industry's development. It holds over 30 patents and more than 20 software Copyrights. As a major writing unit, it has participated in the formulation of over 40 international and domestic standards.











Product Qualifications



Product Standards



Invention Patent



Software Copyright



Research And Development Strength

- Over 20 years of dedication to the power technology sector
- The annual R&D investment exceeds 10% of the total sales
- R&D personnel account for 38% of the total number of employees in the company
- Equipped with a product testing platform and full-process testing capabilities, it ensures outstanding product quality and performance.
- More than 20 software Copyrights
- More than 30 invention patents
- More than 40 national and industry standards
- Jointly developed with research institutions such as Tsinghua University, Xi 'an Jiaotong University, and the Chinese Academy of Sciences
- Introduce IPD and adhere to the product development model of IPD integrated product development +CMMI software capability maturity model
- Constantly upgraded and updated solutions and products


(R & D Department)
Shenzhen, China P.R.C
has been successfully appraised for
Maturity Level 3 (Defined)
Capability Maturity Model Integration (CMMI)℠ Development
for Software Engineering (CMMI-DEV, V 1.3)
Staged Representation of Software Engineering Institute,
Carnegie Mellon University, USA
during the SCAMPI℠ Class A (V 1.2) appraisal conducted from
[Dates purged]
09th January 2012
for the software development projects in
Power Management Systems
in SANHE POWER TECHNOLOGY(SHENZHEN) CO., LTD.
SEI Appraisal ID: 17903
SEI 评估（证书）编号：17903
PM Shrout
SEI Certified SCAMPI℠ Class A Lead Appraiser
ID # 0400036.7
SEI Partner


CQC
PRODUCT CERTIFICATE
No.: CQC15020137326
NAME AND ADDRESS OF THE APPLICANT
SANHE POWER TECHNOLOGY(SHENZHEN) CO., LTD.
NAME AND ADDRESS OF THE MANUFACTURER
SANHE POWER TECHNOLOGY(SHENZHEN) CO., LTD.
NAME AND ADDRESS OF THE FACTORY
SANHE POWER TECHNOLOGY(SHENZHEN) CO., LTD. (NORTH)
NAME, MODEL AND SPECIFICATION
THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCT
JB/T 9663-2013
CERTIFICATION MODEL
Type Testing of Product + Initial Factory Inspection + Follow-up Factory Inspection
Date of issue: 2015-07-2015
President:
CHINA QUALITY CERTIFICATION CENTRE



cooperative partner

ABB

SAMSUNG E&A

bp

BASF
We create chemistry

TBEA

JinKO Solar

Linde

HEIDELBERGCEMENT GROUP

BYD

JA SOLAR

LONGi

SUNGROW

CanadianSolar

BAOSTEEL

KONKA

REPT BATTERO

SINOPEC

CNPC

GCL

CNBM | sinoma

CSSC
中国船舶集团有限公司
CHINA STATE SHIPBUILDING CORPORATION LIMITED

中国海油 CNOOC

国家管网 PipeChina

MCC 中冶集团

華潤 China Resources

中国国电 CHINA GUODIAN

神华集团 SHENHUA GROUP

国投 SDIC

CREC 中国铁建

KINBON 天津金鹏集团 Tianjin Jinpeng Group

双汇 Shineway ®

赛科 SECCO

SUAR Series New Energy Power Quality Comprehensive Management Device

Sanhe Power Tech SUAR Series Comprehensive New Energy Power Quality Management Device specializes in addressing power quality issues arising from distributed generation in modern power systems. Suitable for new energy applications including photovoltaic, energy storage, wind power, and hydrogen production, it integrates harmonic filtering, reactive power compensation, three-phase imbalance regulation, and voltage adjustment into a unified closed-loop control system. This enhances the system's acceptance capacity, improves overall utilization efficiency, and ensures safe, stable, and efficient operation.





Product Features

- Features an advanced three-level topology
- Utilizes imported IGBT power modules to ensure operational longevity
- Incorporates harmonic compensation, reactive power compensation, and unbalanced compensation capabilities
- Offers multiple compensation strategies for selection based on actual requirements
- Employs superior sampling and control design for rapid response and adjustment
- Modular design enables parallel operation of multiple modules, facilitating scalability

Key Technical Specifications

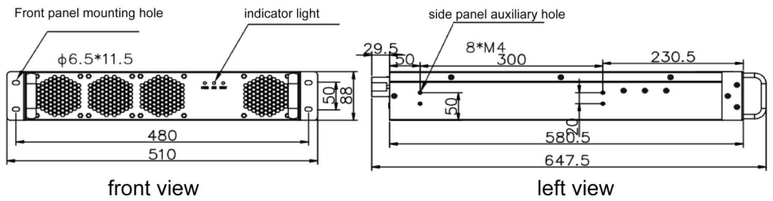
Rated voltage	0.4kV
Power grid frequency	50Hz/60Hz±5%
Rated capacity	35kvar/50kvar/70kvar/100kvar
Electrical Wiring	SP3W/3P4W
Overall efficiency	≥97.5%
Number of harmonic compensation cycles	2-13 times
Target Power Factor	≥0.99
Phase-by-phase compensation capability	30%~100%
Controller	Dual DSP + FPGA
Total response time	≤5ms

Model Description

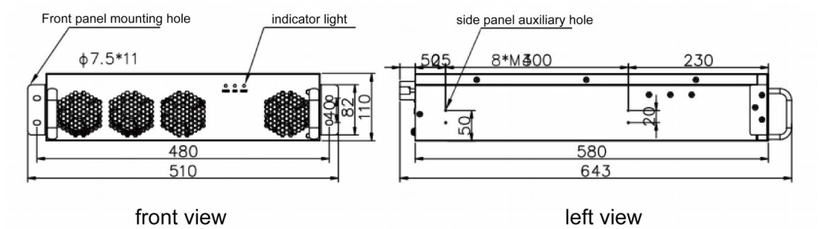
SUAR — □ — □ □

- a: Wall-mounted b: Rack-mounted
- Rated capacity: kvar
- Rated Voltage: kV
- Sanhe Power Tech Three-Phase Unbalance Automatic Regulation Module

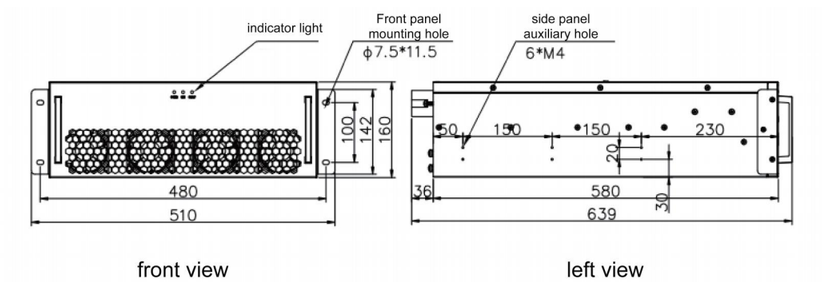
Dimension Drawing



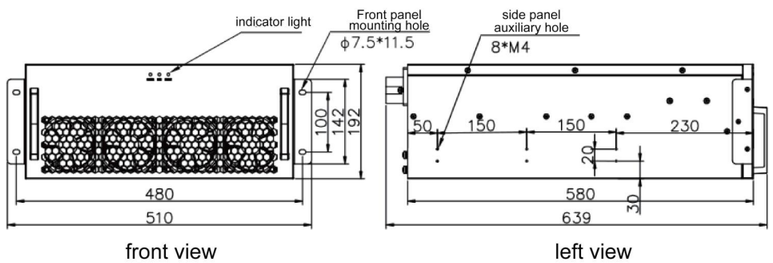
35kvar External Dimensions Drawing



50kvar External Dimensions Drawing



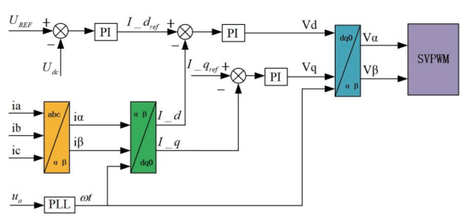
70kvar External Dimensions Drawing



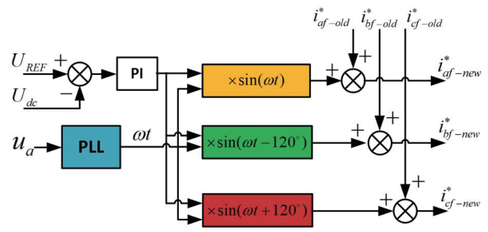
100kvar External Dimensions Drawing

Technical Description

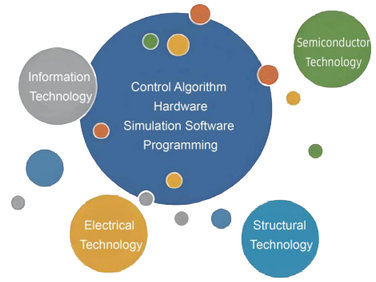
IP-IQ Detection Method



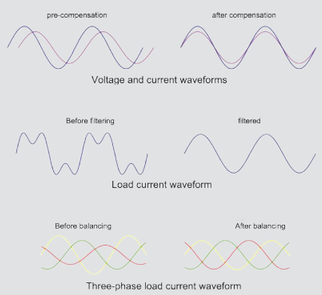
DC Voltage Closed-Loop Control Strategy



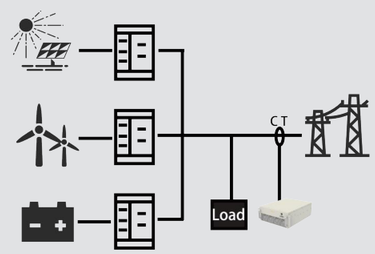
Interdisciplinary Integration



One machine, multiple functions;
Combine various modes; Dynamic adjustment.

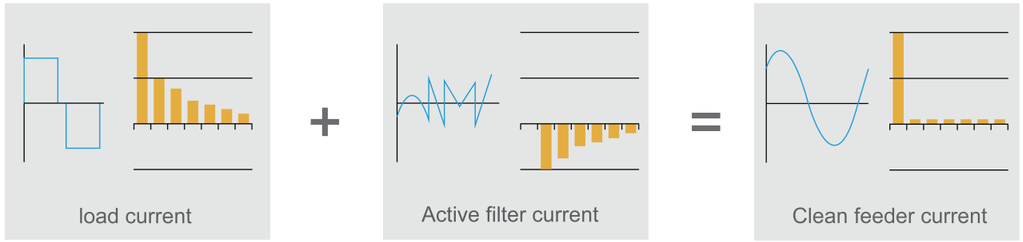


Supports constant reactive power and constant power factor
Constant voltage, day-night operation mode



APFM Series Active Power Filter Module

The APFM series products are parallel active filters developed based on power electronics conversion technology. This product uses Fourier algorithms and instantaneous reactive power algorithms to decompose and calculate harmonic and reactive components of load currents. It then utilizes power electronics technology to inject compensating currents into the grid with equal magnitude and opposite phase. This optimizes load current distortion rates, improves grid power factor, and balances the three-phase currents in the system.







Product Features

- Modular design with flexible configuration for easy capacity expansion
- Advanced IP-IQ algorithm ensures high software reliability and precise harmonic elimination
- DSP+FPGA control system employs vector filtering technology
- Dynamically filters harmonics from 2nd to 51st order, with optional selective filtering of specified harmonics
- Features fundamental wave reactive power compensation and unbalanced compensation
- Multiple capacity modules support arbitrary capacity combinations for excellent scalability, meeting diverse
- system requirements
- Standard communication interfaces and protocols
- Fault alarm and logging capability with up to 500 alarm records
- Comprehensive protection measures including overvoltage, undervoltage, short-circuit, inverter bridge reverse
- protection, and overcompensation protection

Automatically detects and exits the system with alarms during load changes to prevent faults if resonance occurs

Rack-mounted modules installed in cabinets, monitorable via centralized 7-inch touchscreen

Key Technical Specifications

Rated voltage	208V/400V/480V/690V
Power grid frequency	50(60)Hz±5%
Rated current	50A/75A/100A/150A/200A
Overall efficiency	≥97.5%
Filtering capability	THDi (Total Harmonic Distortion) < 5%
Total response time	≤5ms
Communication Interface	RS485
Communication Protocol	Modbus Protocol
Protection Rating	IP20, other IP ratings available upon request

Model Description

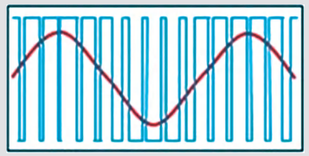
APFM □–□ □ / □

- TL: Three-phase three-wire FL: Three-phase four-wire
- a: Wall-mounted, b: Rack-mounted
- Rated current: A
- Rated Voltage: kV
- Sanhe Power Tech Active Power Filter Module

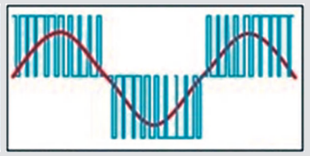
APFM Model List

APF System Type	Structure	Model Name	Rated Voltage	Output Current(A)	Wiring Type
Independent Module System	Wall-mounted Type	APFM0.2-50a/FL	208V	50A	3P3W/3P4W
		APFM0.2-75a/T(F)L	208V	75A	3P3W/3P4W
		APFM0.2-100a/T(F)L	208V	100A	3P3W/3P4W
		APFM0.2-150a/T(F)L	208V	150A	3P3W/3P4W
		APFM0.4-50a/T(F)L	400V	50A	3P3W/3P4W
		APFM0.4-100a/T(F)L	400V	100A	3P3W/3P4W
		APFM0.4-150a/T(F)L	400V	150A	3P3W/3P4W
		APFM0.4-200a/T(F)L	400V	200A	3P3W/3P4W
		APFM0.5-100a/TL	480V	100A	3P3W
		APFM0.7-100a/TL	690V	100A	3P3W
	Rack mount Type	APFM0.2-50b/FL	208V	50A	3P3W/3P4W
		APFM0.2-75b/T(F)L	208V	75A	3P3W/3P4W
		APFM0.2-100b/T(F)L	208V	100A	3P3W/3P4W
		APFM0.2-150b/T(F)L	208V	150A	3P3W/3P4W
		APFM0.4-50b/T(F)L	400V	50A	3P3W/3P4W
		APFM0.4-100b/T(F)L	400V	100A	3P3W/3P4W
		APFM0.4-150b/T(F)L	400V	150A	3P3W/3P4W
		APFM0.4-200b/T(F)L	400V	200A	3P3W/3P4W
		APFM0.5-100b/TL	480V	100A	3P3W
		APFM0.7-100b/TL	690V	100A	3P3W

Core Technology

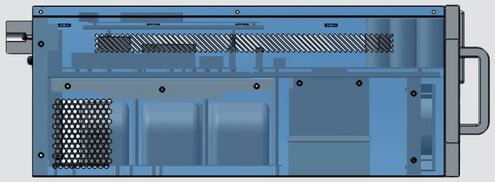


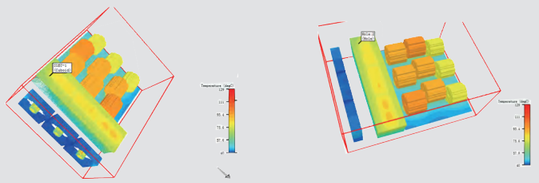
Two-Level Principle Schematic Diagram



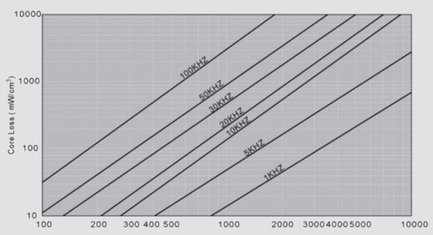
Three-Level Principle Schematic Diagram

Employing a diode-clamped capacitor midpoint three-level topology with advanced detection and command algorithms, the output approaches a perfect sine wave. This design reduces component stress, enhances reliability, minimizes losses and conduction losses, and improves overall system efficiency.

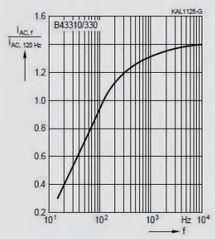




The modular product series employs independent air ducts, layered heat dissipation, and intelligent air cooling design. Through thermal simulation and multi-channel temperature rise testing, it ensures all components operate safely and stably within a controlled temperature environment.



Magnetic Loss Curve

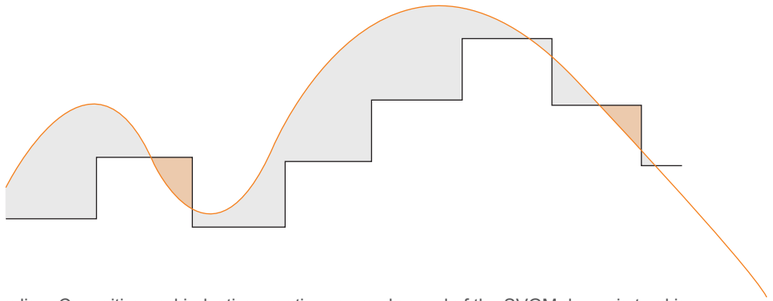


DC Bias Curve

The grid-connected reactor core utilizes amorphous soft magnetic material, featuring distributed air gaps and excellent temperature characteristics, resulting in lower losses compared to conventional silicon steel laminations. It also exhibits outstanding DC bias characteristics and high saturation flux density, ensuring linearity under all operating conditions.

SVGM Series Static Var Generator Module

The SVGM series products are parallel-connected static var generators developed based on power electronics conversion technology. The SVGM continuously monitors load-side current data through current transformers. Using its internal DSP chip, it calculates and analyzes the reactive power content within the current, then issues PWM signals to control the drive module. This drives the IGBTs to generate capacitive or inductive reactive currents, thereby improving the power factor of the grid and balancing the three-phase currents in the system.



Orange line: Capacitive and inductive reactive power demand of the SVGM dynamic tracking system
Black line: Step-type capacitor compensation exhibits “overcompensation” and “undercompensation,” failing to compensate for line charging reactive power





Product Features

- Advanced three-level IGBT power modules ensure enhanced system stability and reliability.
- Modular design enables flexible configuration and parallel operation of multiple modules for easy capacity expansion.
- Optimized structural layout guarantees efficient power circuit design and superior heat dissipation.
- DSP+FPGA control platform delivers precise, secure, and stable control.
- Features reactive power compensation and unbalanced compensation, with optional 2nd to 13th harmonic compensation
- Continuous and precise reactive power compensation prevents under-compensation or over-compensation
- Multiple protection functions ensure safe and reliable system operation
- Rack-mounted modules installed within cabinets, with optional 7-inch centralized touchscreen monitoring

Key Technical Specifications

Rated voltage	208V/400V/480V/690V
Power grid frequency	50(60)Hz±5%
Rated capacity	35kvar/50kvar/54kvar/75kvar/80kvar/100kvar120kvar
Overall efficiency	≥97.5%
Total response time	≤5ms
Communication Interface	RS485
Communication Protocol	Modbus Protocol
Protection Rating	IP20
Noise	65 dB (1 meter)

Model Description

SVGM □–□ □/□

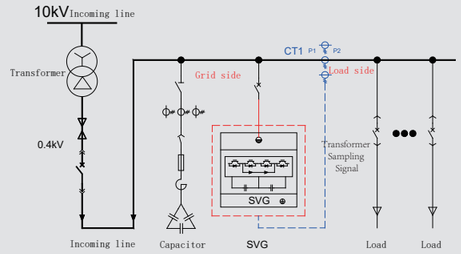
- TL: Three-phase three-wire FL: Three-phase four-wire
- a: Wall-mounted, b: Rack-mounted
- Rated capacity: kvar
- Rated Voltage: kV
- Sanhe Power Tech Static Var Generator Module

SVGM Model List

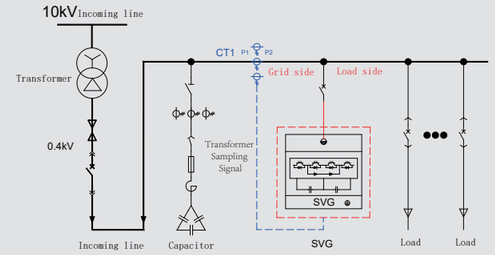
SVG System Type	Structure	Model Name	Rated Voltage	Output Capacity(kvar)	WiringType
Independent Module System	Wall-mounted Type	SVGM0.2-54a/T(F)L	208V	54	3P3W/3P4W
		SVGM0.4-35a/T(F)L	400V	35	3P3W/3P4W
		SVGM0.4-50a/T(F)L	400V	50	3P3W/3P4W
		SVGM0.4-150a/T(F)L	400V	75	3P3W/3P4W
		SVGM0.4-100a/T(F)L	400V	100	3P3W/3P4W
		SVGM0.5-80a/TL	480V	80	3P3W
		SVGM0.5-120a/TL	480V	120	3P3W
		SVGM0.7-120a/TL	690V	120	3P3W
	Rack mount Type	SVGM0.2-54b/T(F)L	208V	54	3P3W/3P4W
		SVGM0.4-35b/T(F)L	400V	35	3P3W/3P4W
		SVGM0.4-50b/T(F)L	400V	50	3P3W/3P4W
		SVGM0.4-75b/T(F)L	400V	75	3P3W/3P4W
		SVGM0.4-150b/T(F)L	400V	100	3P3W/3P4W
		SVGM0.5-80b/TL	480V	80	3P3W
		SVGM0.5-120b/TL	480V	120	3P3W
		SVGM0.7-120b/TL	690V	120	3P3W

Single-Unit Power Distribution Wiring Diagram

The SVGM power module requires wiring and installation of three-phase power cables, N cables, PE wires, and external CT cables. The overall block diagram is shown below.

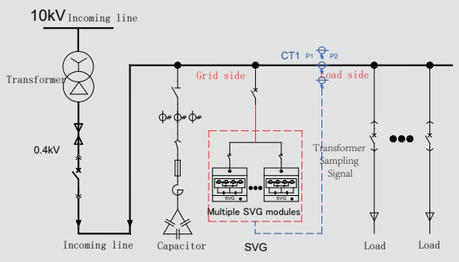


Single-Device Load-Side

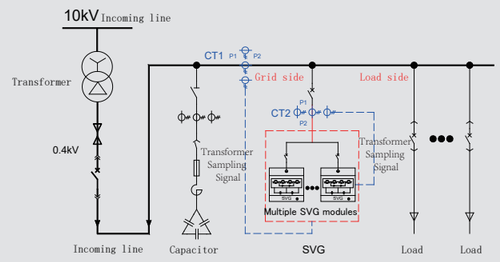


Single-Device Grid-Side

Parallel Connection Wiring Diagram Introduction



Multi-Device Load-Side



Multi-Device Grid-Side

UARM Series Three-Phase Unbalance Automatic Regulation Module

Sanhe Power Tech UARM Series Three-Phase Unbalanced Automatic Regulation Module is the optimal solution for addressing common issues at the end of low-voltage distribution networks. These include phase voltage dips exceeding limits due to unbalanced three-phase loads, three-phase reactive power imbalance, and low power factor. This module extends transformer lifespan, enhances effective output capacity, reduces line losses, improves power quality in distribution networks, and optimizes the power supply environment.



Product Features

- Real-time monitoring of load-side current via current transformers, with internal DSP processing and analysis to calculate the compensation current required for each phase to achieve balanced state. This drives IGBT output to
- realize three-phase current balancing.
- The main inverter of the power module employs IGBT devices from internationally renowned brands.
- Multiple control modes can be freely configured according to requirements.
- Complete protection functions include overload, overcurrent, and short-circuit protection, along with system
- startup self-diagnostics.

  Independent phase control balances load currents while enabling single-phase and three-phase reactive power compensation.

  Compatible with wireless communication modules for mobile app operation, parameter setting, and data retrieval.

Key Technical Specifications

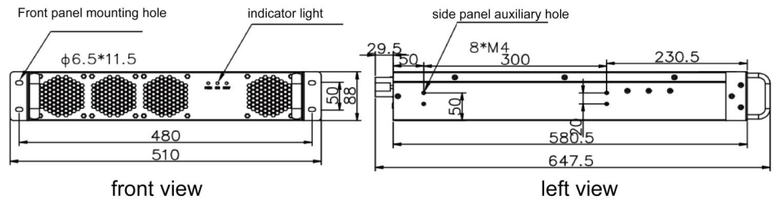
Rated voltage	0.4kV
Power grid frequency	50Hz±5%
Rated capacity	35kvar/50kvar/70kvar/100kvar
Three-phase balanced compensation capability	< 5%
Overall efficiency	≥97.5%
Total response time	≤5ms
Communication Interface	RS485
Communication Protocol	Modbus
Protective function	Overcurrent, overvoltage, overtemperature, out-of-sequence, resonance protection, frequency deviation, short-circuit protection, etc.
Protection Rating	IP20
Noise	65 dB (at 1 meter)

Model Description

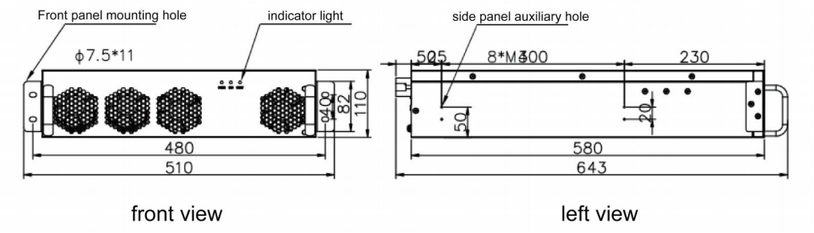
UARM — □ — □ □

- a: Wall-mounted b: Rack-mounted
- Rated capacity: kvar
- Rated Voltage: kV
- Sanhe Power Tech Three-Phase Unbalance Automatic Regulation Module

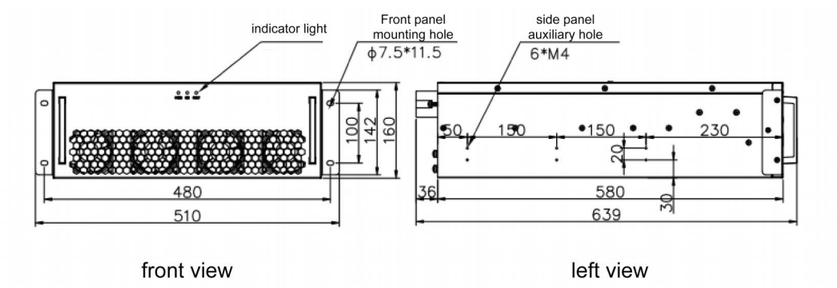
Dimension Drawing



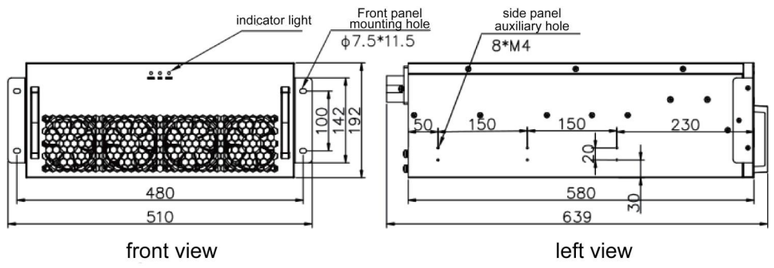
35kvar External Dimensions Drawing



50kvar External Dimensions Drawing



70kvar External Dimensions Drawing



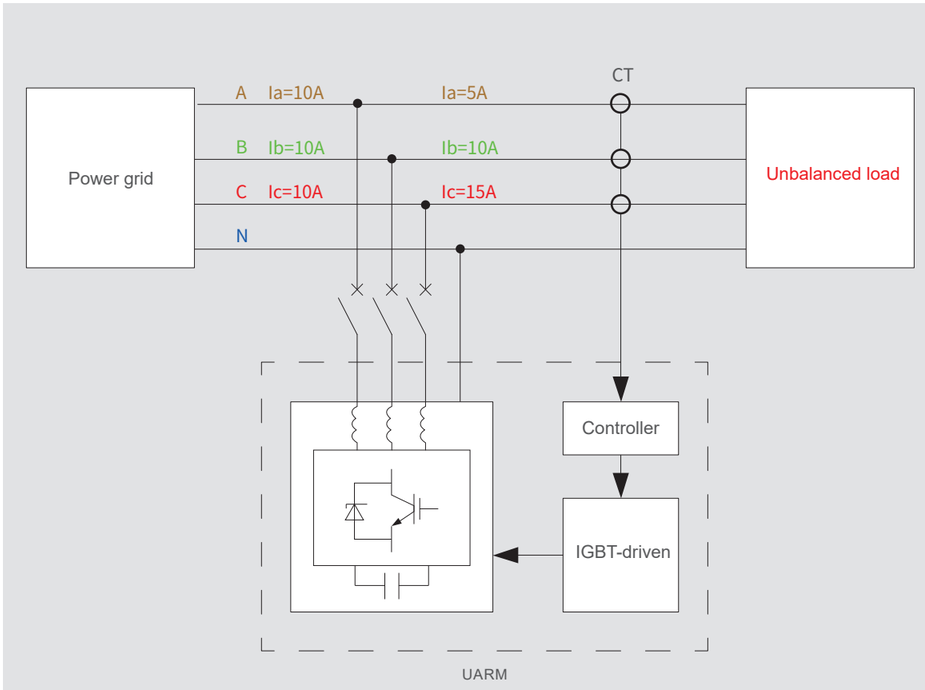
100kvar External Dimensions Drawing

Selection Guide

Transformer Capacity	Secondary voltage level	Secondary rated current	Unbalanced current	UARM Configuration Capacity
kVA	kV	A	A	kvar
80	0.4	115	57.5	35
100	0.4	144	72	35
125	0.4	180	90	50
160	0.4	230	115	50
200	0.4	288	144	75
250	0.4	360	180	100
315	0.4	455	227.5	100
400	0.4	577	288.5	150
500	0.4	722	361	175
630	0.4	909	454.5	200

Note: The unbalanced current calculation is based on one phase current at rated value with 50% imbalance. Actual capacity configuration may be adjusted according to on-site load imbalance conditions.

Three-Phase Unbalance Compensation Working Principle Diagram



SEK Series
Monostable Permanent Magnet High-Voltage Vacuum Contactor

The SEK Series Single-Stable Permanent Magnet High-Voltage Vacuum Contactors represent the next generation of high-voltage vacuum contactors. They employ a permanent magnet mechanism to directly actuate the closing/breaking of the moving and stationary contacts within the vacuum arc extinguishing chamber. The SEK series single-stable permanent magnet high-voltage vacuum contactors are widely applicable in three-phase AC systems rated at 12kV and below, with a rated frequency of 50Hz/60Hz, where frequent multiple tripping and closing operations are required. Utilizing a wide-voltage, highly efficient, and reliable electronic control module, the SEK series features rapid response for closing and tripping operations, along with auxiliary contact outputs for energy storage.



Product Features

- Maintenance-free
- Reliable vacuum arc-extinguishing technology
- Frequent operation
- Monostable permanent magnet operating mechanism
- Long electrical and mechanical life
- Wide voltage supply module
- Low interrupting current
- Compact structure

Terms of Use

Ambient temperature	-25℃ ~ +40℃
Relative humidity	≤95% (daily average value); ≤90% (monthly average value)
Elevation	≤2000m（SEK-7.2）；≤1000m（SEK-12）
Surrounding medium	The surrounding air should not be significantly contaminated by corrosive or flammable gases, water vapor, or similar substances.
Installation location	No frequent intense vibrations; during operation, the inclination angle of the mounting surface and horizontal plane shall not exceed 5°.

Model Description

SEK— □ / □ P

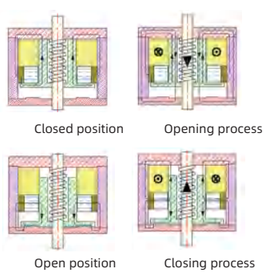
- P — Permanent magnet holding
- □ — Rated current: A
- □ — Rated voltage: kV
- SEK — High-Voltage Vacuum Contactor

Key Technical Specifications

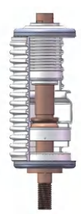
Rated voltage	12kV
Rated current	630A
Rated frequency	50/60Hz
Rated Power Frequency Withstand Voltage (1 min)	42kV
Rated Lightning Impulse Withstand Voltage	75kV
Rated Short-Time Withstand Current	6.3/4skA
Rated Peak Withstand Current	16kA
Rated closing current	6.3kA
Rated breaking current	5.04kA
Rated Short-Circuit Closing Current	10kA
Rated Short-Circuit Breaking Current	6.3kA
Capacitive current	200A
Main Circuit Resistance (20°C)	≤80μΩ
Three-phase closing synchronism	≤2.0ms
Contact bounce time	≤5.0ms
Closing time	≤30ms
Opening time	≤15ms
Operating frequency	300times/hour
Mechanical life of the contactor	30×10⁴times
Electrical life of contactors	AC-3:25×10⁴times
	AC-4:10×10⁴times

Working Principle

■ Permanent Magnet Mechanism



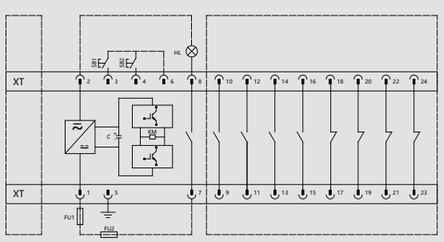
■ Vacuum arc extinguishing chamber



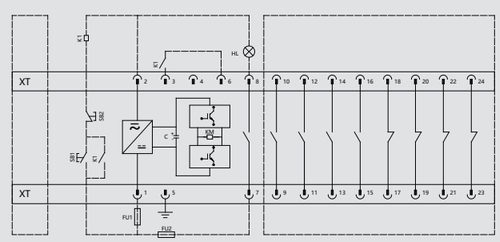
■ Control Module Schematic Diagram



Electrical Schematic Diagram

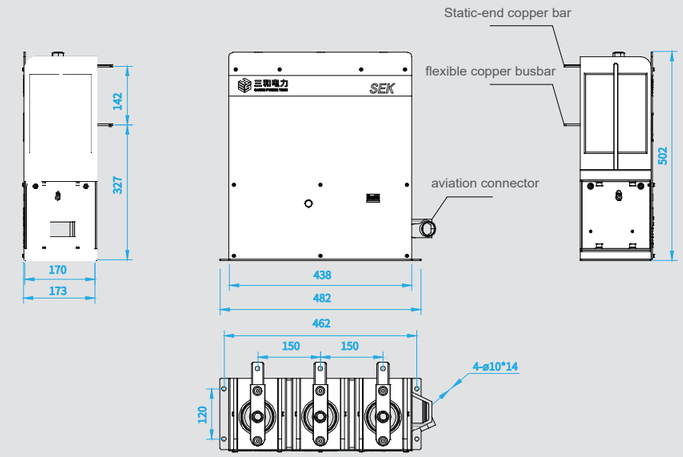


Dual-Command Operation



Single-command operation

Dimension Drawing



SLC Series Power Factor Controller

Sanhe Power Tech's SLC Series Power Factor Controller is a control device designed for high- and low-voltage reactive power compensation systems. Featuring a 4.3-inch color touchscreen with Chinese and English menu displays, it integrates power measurement, harmonic analysis, alarm control, event logging, temperature and humidity control, and communication functions. It intelligently manages the switching of shunt capacitor banks and the output of power electronic equipment, enabling precise compensation for power systems.

Product Features

- 4.3-inch color touchscreen: User-friendly UI interface with diverse displays, straightforward parameter settings, and simple operation
- Class 0.2 integrated metering chip sampling for high measurement accuracy
  Real-time data monitoring, analysis, and graphical display: Power factor, voltage, current, active power, reactive power, apparent power, frequency, capacitor bank control status, 2nd to 51st harmonic voltage/current bar graphs, system voltage/current waveforms
- Multiple protection functions: Over/under-voltage, low current, harmonic voltage/current overlimit
- Data logging capability: Robust recording function logs clock-based alarm events, monthly operation counts per capacitor bank, and monthly operational duration
- Convenient control parameter configuration:
  Set switching status and capacity for each capacitor bank; automatically selects appropriate capacitor banks for switching to ensure precise, reliable compensation and extend capacitor lifespan; retains data during power loss
  Equipped with RS485 communication interface:
  Uploads real-time data using standard MODBUS communication protocol



Key Technical Specifications

Operating Power Supply	100～260VAC/50Hz 、100～260VDC
AC Voltage Sampling	100V/380V（Line voltage）
AC Current Sampling	5A/1A
Maximum number of output channels	Total channels: 12 / Sub-channels: 15
Output passive contact capacity	250VAC，5A
Dynamic Output Capacity	12VDC，50mA
Communication Interface	RS485
Communication Protocol	Modbus Protocol
Baud rate	2400,4800,9600
Total power consumption	≤15VA
Panel Protection Rating	IP4X

Model Description

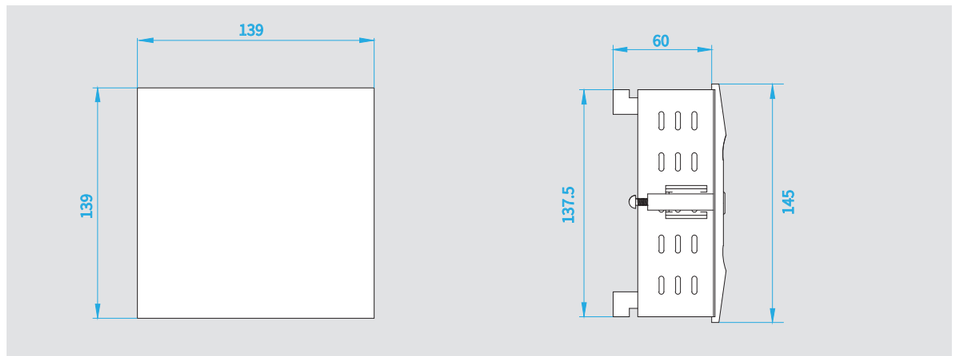
SLC—□ / □

- None: Full Supplement
  F: Partial Supplement
- Number of output channels
- Intelligent Power Factor Controller

Common Specifications Selection Table

Model	Number of available routes	Applicable Systems
SLC-□	□6	High-voltage systems (6kV, 10kV) Low-voltage systems (0.4kV, 0.69kV)
SLC-□	□12	Low-voltage systems (0.4kV, 0.69kV)
SLC-□/F	□15	Low-voltage system (0.4kV) Phase-by-phase compensation

Dimension Drawing



Panel cutout dimensions (WxH): 139 x 139 mm

Dimensions (WxHxD): 163x145x70mm
Recess Depth: Full-width—60mm;
Split-width—80mm

SWCP Series Intelligent Reactive Power Compensation Monitoring Device

Sanhe Power Tech Technology SWCP Intelligent Reactive Power Compensation Monitoring Device is a protective equipment designed for shunt capacitor banks in voltage systems of 35kV and below. It features high measurement accuracy, precise and reliable fault analysis, comprehensive protection functions, and intuitive parameter display. It can collect voltage and input signals in real time to achieve various protection and control functions. This series also incorporates an RS485 serial digital interface for communication with computers. It finds extensive application across industries including petroleum, chemical, power, metallurgy, coal, light industry, and textiles.

Product Features

- Features a 32-bit ARM chip for high processing speed
- Employs a high-speed, high-resolution A/D converter to ensure sampling data accuracy and response
- speed
- LCD display with 5-button operation
- Modular, functional design ensures excellent software and hardware compatibility
- Displays primary-side three-phase line voltage, three-phase phase current, total active power, total
- reactive power, and secondary-side open-delta voltage values
- Parameters can be set under power; data persists after power loss without requiring reset

Comprehensive protection functions with alarm logging capability

Supports RS485 digital communication with host computers (PCs), offering high-speed, reliable transmission and MODBUS protocol compatibility



Key Technical Specifications

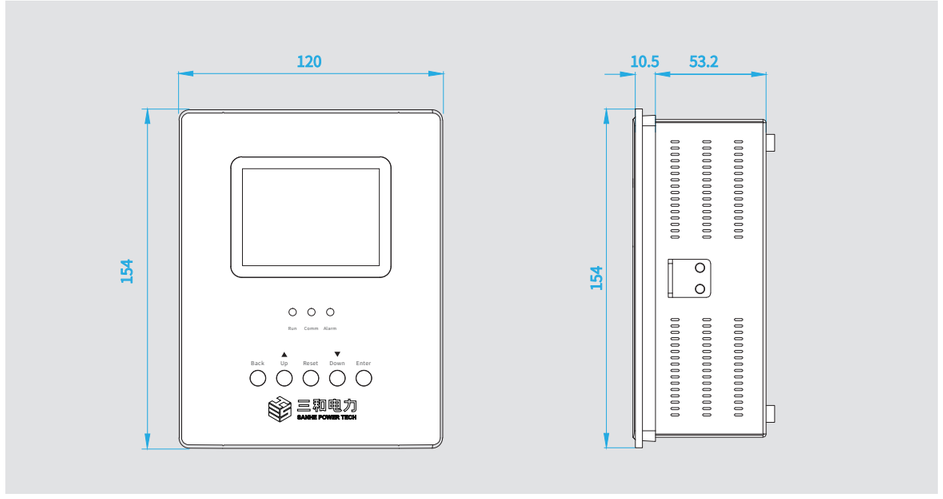
Operating Power Supply	100～240V/AC、100～240V/DC
Frequency	50Hz
Input three-phase voltage	100/√3V，Accuracy: Class 0.5
Input three-phase current	5A/1A，Accuracy: Class 0.5
Open-ended delta voltage input	0.1～100V，Accuracy: Class 0.5
Output contact capacity	AC250V/5A、DC30V/5A

Model Description

SWCP — □

- Design Serial Number
- Sanhe Power Tech Smart Reactive Power Compensation Monitoring Device

Dimension Drawing



Note: SWCP300 and SWCP800 are subject to actual supply.

SPQ Series of Online Power Quality Monitoring Terminal

The online power quality monitoring terminal series employs an ARM+DSP data acquisition architecture, featuring a 5-inch colour LCD display. Integrating measurement and communication functions, it enables real-time monitoring and storage of electrical parameters and power quality technical indicators. Additionally, it monitors and records voltage surges and dips, offering robust practicality. This technology holds significant importance for ensuring the safety, economy, and reliability of power system operations.

Product Features

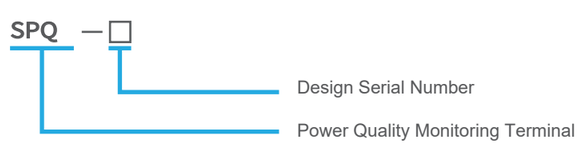
- Utilises the Linux operating system as its software platform, ensuring high system reliability.
- Employs high-speed A/D converters for superior acquisition accuracy, achieving Class A precision in field testing.
- Features extensive storage capacity, retaining up to one year of historical data without loss during power failure.
- Incorporates hardware phase-locked loop technology for automatic frequency tracking.
- Robust communication interfaces include industrial Ethernet, RS485, and USB ports.
- Comprehensive data monitoring capabilities encompass steady-state power quality metrics and transient disturbance detection.



Key Technical Specifications

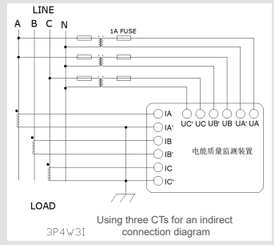
Operating Power Supply	220V±20% AC/220V±20% DC
Rated Voltage	57.7V/100V、220V/380V
Rated Current	1A、5A
Normal Operating Temperature	-10℃～+55℃
Relative Humidity	5%～95%
Altitude	≤3000m
Protection Rating	IP50

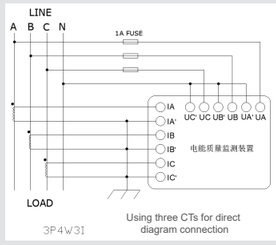
Model Description

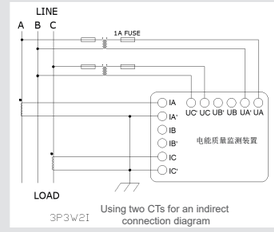


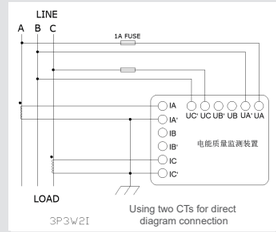
Wiring diagram

For power quality monitoring, a three-phase four-wire connection method is recommended.
Typical wiring is as shown in the diagram below:









STS Series Dynamic Reactive Power Compensation Switching Controller

Sanhe Power Tech STS Series Dynamic Reactive Power Compensation Switching Regulator is an electronic power device capable of rapidly switching parallel capacitors. Its main circuit employs anti-parallel thyristor modules, supporting both level and pulse control modes simultaneously, making it suitable for rapid switching of low-voltage capacitors.

For grid systems with high harmonic distortion rates or when used in LC passive filter installations, the STS/F Series filtering dynamic regulators can be employed.

Product Features

- Features high-quality thyristors for superior reliability and stability.
- Precise triggering enables true zero-crossing switching.
- No inrush current, overvoltage, or sparking during capacitor switching; rapid response time under 15ms.
- Supports AC/DC level triggering for broad compatibility; easy retrofitting and replacement.
- Optically isolated design ensures strong anti-interference capability.
- Includes alarms for fan lock-up, fan wire breakage, and overheat protection.



Key Technical Specifications

Rated Voltage	0.4kV
Rated frequency	50Hz/60Hz
Total capacity of three-phase control capacitors	Total compensation: 5 kvar to 70 kvar Individual compensation: 5 kvar to 50 kvar
Control terminal voltage	DC12V/AC220V
Control-end current	Common compensation: ≤5mA Separate compensation: ≤15mA
Dynamic Response Time	≤15ms
Surge deflection	Input circuit: ±2kV Control circuit: ±1kV

Model Description

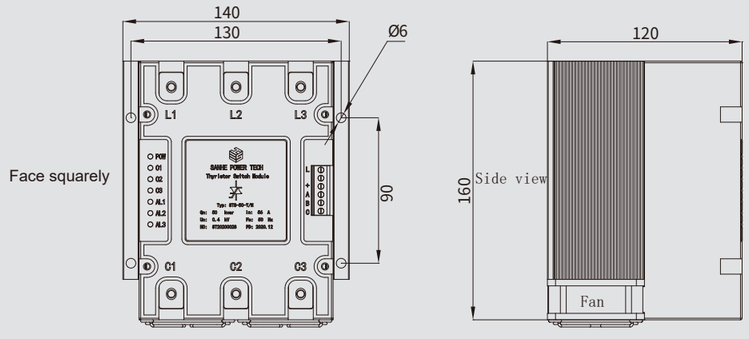
STS □–□–□–□/□

- N: Standard Type
  F: Filter Type
- S: Partial subsidy
  T: Full subsidy
- Total three-phase capacitance of control capacitors: kvar
- Rated Voltage: kV
- Sanhe Power Tech Dynamic Reactive Power Compensation Switching Controller

Common Specification Selection Table

Model	Rated voltage	Total capacity of three-phase control capacitors	Type
	kV	kvar	A
STS0.4-15-T/N	0.4	15	Common Type Co-supplement
STS0.4-30-T/N	0.4	30	
STS0.4-50-T/N	0.4	50	
STS0.4-70-T/N	0.4	70	
STS0.4-15-S/N	0.4	3×5	Standard Type
STS0.4-30-S/N	0.4	3×10	
STS0.4-50-S/N	0.4	3×16.7	
STS0.4-15-T/F	0.4	15	Compensating filter type
STS0.4-30-T/F	0.4	30	
STS0.4-40-T/F	0.4	40	
STS0.4-60-T/F	0.4	60	
STS0.4-15-S/F	0.4	3×5	Compensated Filter Type
STS0.4-30-S/F	0.4	3×10	
STS0.4-50-S/F	0.4	3×16.7	

Dimension Drawing



Installation cutout dimensions: 130mm × 90mm

Blowing air from the fan

SFM Series Fixed Compensation Module

Sanhe Power Tech SFM Series Fixed Compensation Modules integrate protective devices, switching switches, series reactors, and shunt capacitors into a single frame, supporting both single-circuit and dual-circuit compensation. All components undergo optimized selection, calculation, design, production, and testing. Compatible with all mainstream low-voltage fixed cabinet structures, these modules effectively compensate reactive power and improve power quality.

Product Features

- Single-module capacity can be flexibly configured based on system requirements
- Individual compensation cabinets offer greater capacity and easy scalability
- Simple and convenient installation and maintenance
- Compact structure with small footprint
- Mutually isolated compensation branches ensure a clean and aesthetically pleasing cabinet layout



Key Technical Specifications

System Voltage	400V
Rated frequency	50Hz
Reactance ratio	7%，14%
Response time	≤15ms
Power loss	≤5W/kvar

Model Description

SFM □–□ □ □ □

- a: Frame-mounted
- b: Chassis-mounted

Reactance rate:
None - Not specified, 7 - 7%, 14 - 14%

Switching Device:
M-Switching Capacitor Contactor
C-Compound Switch
T-Dynamic Reactive Power Compensation Switching Regulator

Rated capacity: kvar

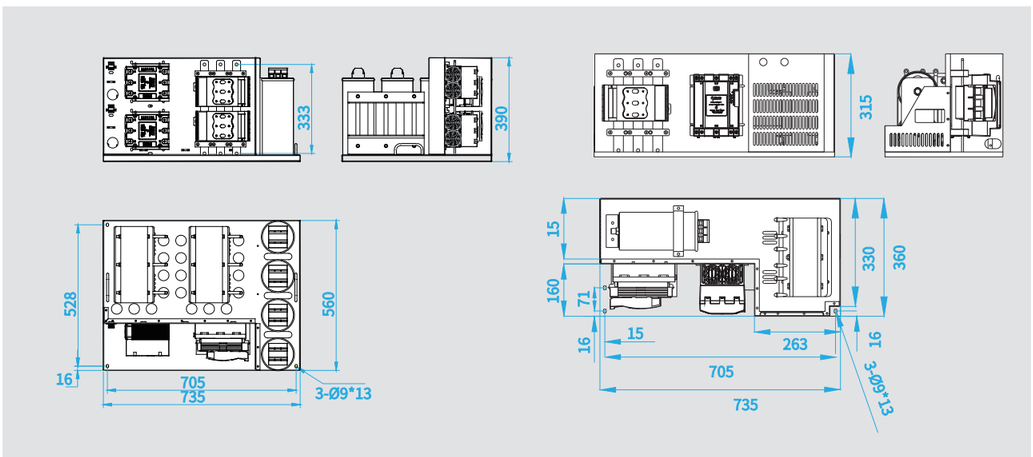
Capacitor rated voltage: V

Sanhe Power Tech Fixed Compensation Module

Common Specification Selection Table

Model	Capacitor rated voltage	Capacitor rated capacity	Rated current	Reactance ratio
	V	kvar	A	%
SFM480-10□/7a	480	10	12.0	7
SFM480-15□/7a	480	15	18.0	7
SFM480-20□/7a	480	20	24.1	7
SFM480-25□/7a	480	25	30.1	7
SFM480-30□/7a	480	30	36.1	7
SFM480-40□/7a	480	40	48.1	7
SFM480-50□/7a	480	50	60.1	7
SFM480-80□/7a	480	80	96.2	7
SFM525-10□/14a	525	10	11.0	14
SFM525-15□/14a	525	15	16.5	14
SFM525-20□/14a	525	20	22.0	14
SFM525-25□/14a	525	25	27.5	14
SFM525-30□/14a	525	30	33.0	14
SFM525-40□/14a	525	40	44.0	14
SFM525-50□/14a	525	50	55.0	14
SFM525-80□/14a	525	80	88.0	14
SFM480-15□/7b	480	15	18.0	7
SFM480-20□/7b	480	20	24.1	7
SFM480-25□/7b	480	25	30.1	7
SFM480-30□/7b	480	30	36.1	7
SFM480-40□/7b	480	40	48.1	7

Dimension Drawing



SC Series Low-Voltage Self-Healing Shunt Capacitor

Sanhe Power Tech SC Series Low-Voltage Self-Healing Shunt Capacitors utilize metallized polypropylene film as the dielectric medium, incorporating advanced foreign production technologies, processes, and equipment. Primarily designed for low-voltage power distribution systems, they compensate for reactive power deficiencies, enhance power factor, and improve power quality. Featuring an overpressure-resistant safety explosion-proof structure, these capacitors boast an aesthetically pleasing and compact design with stable, reliable performance. They exhibit exceptional surge current resistance and meet the highest environmental standards.

Product Features

- Attractive appearance, lightweight, compact size
- Easy installation, maintenance, and replacement
- Low tangent loss angle, minimal temperature rise
- Excellent self-healing properties, extended service life
- Built-in overpressure disconnect protection, superior safety performance



Key Technical Specifications

Rated voltage	200V~800V
Rated frequency	50/60Hz
Capacity Accuracy	-5%~+10%
Maximum Allowable Overvoltage	1.1Un（Intermittent use）
Maximum Allowable Overcurrent	1.3In
Self-discharge characteristics	The residual voltage of the capacitor is less than 75V three minutes after power disconnection.
Service life	Up to 130,000 hours
AC test voltage	Pole-to-pole 2.15 kV/2 s, pole-to-shell 3000 V/10 s

Model Description

SC □–□–□–□/□

- N—Standard Type F—Filter Type
- S—Single-phase T—Three-phase
- Rated capacity: kvar
- Rated Voltage: V
- Sanhe Power Tech Low-Voltage Capacitors

Common Specifications Selection Table

SC Three-Phase Capacitor (415V, recommended with series current-limiting reactor or without reactor)

Model	Rated capacity	Rated current	Rated capacitance	elliptical		cylindrical
	kvar	A	μF	External Dimensions（mm） A×B×H	Installation Dimensions（mm） a×b	
SC415-5-T/N	5	6.97	92.5	196×72×130	179×58	ϕ76×210
SC415-10-T/N	10	13.9	184.9	196×72×130	179×58	ϕ76×240
SC415-15-T/N	15	20.9	277.4	196×72×180	179×58	ϕ86×260
SC415-20-T/N	20	27.8	369.8	196×72×210	179×58	ϕ96×260
SC415-25-T/N	25	34.8	462.3	226×110×220	210×66	ϕ106×260
SC415-30-T/N	30	41.7	554.5	226×110×220	210×66	ϕ116×260
SC415-40-T/N	40	55.6	739.3	226×110×260	210×66	/

Note: Products are subject to continuous improvement. Changes may occur without prior notice. Dimensions may be adjusted. Please contact our company for confirmation before placing an order.

SC Three-Phase Capacitor (480V, recommended for use in series with a 7% reactor)

Model	Rated capacity	Rated current	Rated capacitance	elliptical		cylindrical
	kvar	A	μF	External Dimensions（mm） A×B×H	Installation Dimensions（mm） a×b	
SC480-5-T/N	5	6	69.1	196×72×130	179×58	ϕ76×240
SC480-10-T/N	10	12	138.2	196×72×130	179×58	ϕ86×240
SC480-15-T/N	15	18	207.3	196×72×180	179×58	ϕ96×260
SC480-20-T/N	20	24.1	276.5	196×72×210	179×58	ϕ106×260
SC480-25-T/N	25	30.1	345.6	226×110×210	210×66	ϕ116×260
SC480-30-T/N	30	36.1	414.7	226×110×210	210×66	ϕ116×290
SC480-40-T/N	40	48.1	552.9	226×110×260	210×66	/

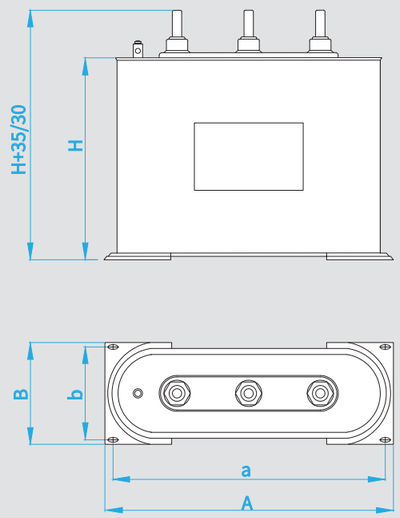
Note: Products are subject to continuous improvement. Changes may occur without prior notice.
Dimensions may be adjusted. Please contact our company for confirmation before placing an order.

SC Three-Phase Capacitor (525V, recommended for series connection with a 14% reactor)

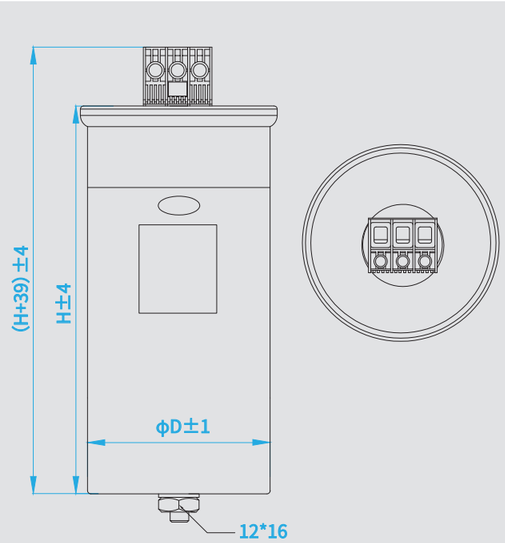
Model	Rated capacity	Rated current	Rated capacitance	elliptical		cylindrical
	kvar	A	μF	External Dimensions（mm） A×B×H	Installation Dimensions（mm） a×b	
SC525-5-T/N	5	5.5	57.8	196×72×130	179×58	ϕ76×240
SC525-10-T/N	10	11	115.5	196×72×130	179×58	ϕ86×240
SC525-15-T/N	15	16.5	173.3	196×72×180	179×58	ϕ96×260
SC525-20-T/N	20	22	231.1	196×72×210	179×58	ϕ106×260
SC525-25-T/N	25	27.5	288.9	226×110×210	210×66	ϕ116×260
SC525-30-T/N	30	33	346.6	226×110×210	210×66	ϕ116×290
SC525-40-T/N	40	44.0	462.2	226×110×260	210×66	/

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Dimension Drawing



Elliptical schematic diagram



Cylindrical Schematic Diagram

SR Series Low-Voltage Series Reactor

Sanhe Power Tech's SR Series low-voltage series reactors feature low losses, low noise, strong surge current suppression capability, high harmonic resistance, and optional over-temperature protection. Installing series reactors in capacitor branches effectively limits inrush currents and suppresses harmonics, thereby protecting capacitors and extending their service life.



Product Features

- Limits inrush current, protects capacitors from surge impacts, and extends their service life
- Effectively suppresses harmonics
- Low losses, low noise, and low temperature rise
- Compact size and aesthetically pleasing design

Key Technical Specifications

Insulation Class	Grade F or Grade H
Rated frequency	50/60Hz
System Voltage	220~690V
Matching capacitor rated voltage	480~800V
Reactance ratio	7%, 14% (as per customer requirements)
Reactance deviation	0~5%
Noise	Less than 45 dB (measured at a distance of 1 meter from the reactor)
Overload capacity	Under natural air-cooling conditions, it can operate continuously at 1.35 times the rated current at power frequency.

Model Description

SR — □ □ / □ — □

- Electrical resistance: %
- Rated Voltage: V
- S: Single-phase T: Three-phase
- Matching capacitor capacity: kvar
- Sanhe Power Tech Low-Voltage Series Reactors

Common Specifications Selection Table

7% Three-Phase Coil-Type Core Series Reactor (Matching 480V, 5-100kvar Capacitors)

Model	Inductor	Capacity	Electric current	Reac-tance ratio	External Dimensions (mm)			Installation Dimensions (mm)	
	mH	kvar	A		L (Max)	W (Max)	H (Max)	a	b
SR-10T/480-7	5.134	0.70	12.03	7%	180	100	160	80	75
SR-20T/480-7	2.567	1.40	24.06	7%	240	120	210	150	90
SR-30T/480-7	1.711	2.10	36.08	7%	240	135	210	150	105
SR-40T/480-7	1.283	2.80	48.11	7%	255	155	260	150	115
SR-50T/480-7	1.027	3.50	60.14	7%	260	165	260	150	125
SR-60T/480-7	0.856	4.20	72.17	7%	255	180	260	150	140
SR-80T/480-7	0.642	5.60	96.23	7%	255	200	260	150	160
SR-100T/480-7	0.513	7.00	120.28	7%	255	210	290	150	170

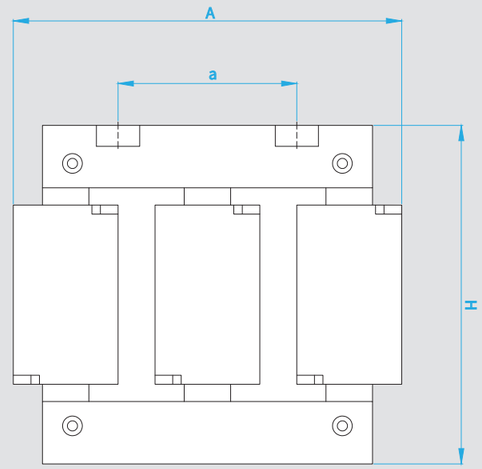
Note: Products are subject to continuous improvement. Specifications may change without prior notice.
Dimensions may be adjusted. Please contact our company for confirmation before placing an order.

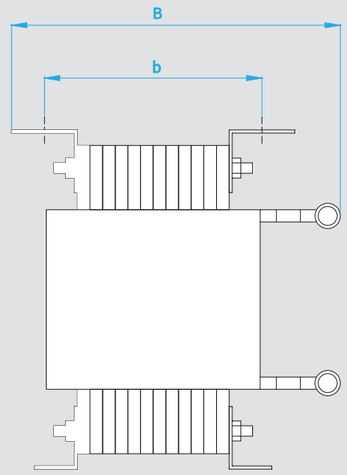
14% Three-Phase Coil-Type Core Series Reactor (Matching 525V, 5-100kvar Capacitors)

Model	Inductor	Capacity	Electric current	Reac-tance ratio	External Dimensions (mm)			Installation Dimensions (mm)	
	mH	kvar	A		L (Max)	W (Max)	H (Max)	a	b
SR-10T/525-14	12.283	1.40	11.00	14%	240	120	210	150	90
SR-20T/525-14	6.141	2.80	21.99	14%	255	155	260	150	115
SR-30T/525-14	4.094	4.20	32.99	14%	255	180	260	150	140
SR-40T/525-14	3.071	5.60	43.99	14%	255	200	260	150	160
SR-50T/525-14	2.457	7.00	54.99	14%	255	215	290	150	175
SR-60T/525-14	2.047	8.40	65.98	14%	300	215	290	150	175
SR-80T/525-14	1.535	11.20	87.98	14%	300	220	345	150	180
SR-100T/525-14	1.228	14.00	109.97	14%	300	225	345	150	185

Note: Products are subject to continuous improvement. Specifications may change without prior notice.
Dimensions may be adjusted. Please contact our company for confirmation before placing an order.

Dimension Drawing





BAM Series High-Voltage Shunt Capacitor

Sanhe Power Tech's BAM Series high-voltage shunt capacitors are designed for 50Hz/60Hz AC power systems. Primarily used to enhance system power factor, improve grid power quality, reduce voltage drop, minimize circuit losses, and boost system transmission capacity, they maximize the efficiency of power generation, transmission, and distribution. These capacitors are widely deployed in power grids and for industrial and commercial power users.





Product Features

- Polypropylene film employs double-sided roughening manufacturing technology, featuring low loss and excellent insulation properties, with a loss tangent not exceeding 0.02% at 20°C.
- Aluminum foil utilizes folded edge technology and a convex pole design to improve electric field distribution, reduce contact resistance, and enhance capacitor stability and service life.
- The impregnation agent is non-toxic and environmentally friendly, featuring high aromaticity, low viscosity, low freezing point, low dielectric constant, minimal partial discharge, and extended service life.
- The housing is fabricated from high-quality steel plate through bending and welding, utilizing advanced stamping techniques to achieve a smooth, aesthetically pleasing finish with high mechanical strength.
- An internal discharge resistor is incorporated to reduce residual voltage on the capacitor from √2UN to 75V or below within 10 minutes when disconnected from the power source.

Key Technical Specifications

Rated frequency	50/60Hz
Average loss	≤0.2W/kvar
Capacitance tolerance	0% ~ +5%
Dielectric	Polypropylene Full Film
Impregnating agent	Free of polychlorinated biphenyls, environmentally friendly and non-toxic
Permitted for continuous operation at 1.1 times the rated voltage.	
Permitted for continuous operation at 1.3 times the rated current	

Model B Specifications

B □ M □—□—□ □

- Footnote: W—Outdoor, G—High Altitude, WG—Outdoor High Altitude, Standard models not marked
- Phase Number: 1-Single Phase, 3-Three Phase
- Rated capacity: kvar
- Rated Voltage: kV
- Medium: Polypropylene full-film
- Impregnating agent: A—Benzyl toluene, F—Diaryl ethane
- Category: Shunt Capacitors

Common Specifications Selection Table

External fuse capacitor

Model	Dimensions				Weight kg	Terminal block	Figure number
	B	h1	h2	H			
BAM6.6/√3-30-1(W)	145	90	170	140	13	M12	1
BAM11/√3-30-1(W)	145	90	250	140	14	M12	1
BAM6.6/√3-50-1(W)	145	90	170	180	15	M12	1
BAM11/√3-50-1(W)	145	90	250	180	16	M12	1
BAM6.6/√3-100-1(W)	145	90	170	280	22	M12	1
BAM11/√3-100-1(W)	145	90	250	270	22	M12	1
BAM6.6/√3-134-1(W)	145	120	170	340	26	M16	1
BAM11/√3-134-1(W)	145	120	250	340	27	M12	1
BAM6.6/√3-150-1(W)	145	120	170	370	28	M16	2
BAM11/√3-150-1(W)	145	120	250	370	29	M12	2
BAM6.6/√3-167-1(W)	145	120	230	470	31	M16	2
BAM11/√3-167-1(W)	145	120	250	400	31	M12	2

Internal fuse capacitor

Model	Dimensions				Weight kg	Terminal block	Figure number
	B	h1	h2	H			
BAM6.6/√3-200-1(W)	145	120	490	38	38	M16	2
BAM11/√3-200-1(W)	145	220	500	40	40	M16	2
BAM6.6/√3-250-1(W)	145	220	580	45	45	M16	2
BAM11/√3-250-1(W)	145	220	580	45	45	M16	2
BAM12/√3-250-1(W)	145	220	620	49	49	M16	2
BAM6.6/√3-267-1(W)	145	220	610	47	47	M16	2
BAM11/√3-267-1(W)	145	220	610	47	47	M16	2
BAM12/√3-267-1(W)	145	220	650	51	51	M16	2
BAM6.6/√3-300-1(W)	183	220	550	51	51	M16	2
BAM11/√3-300-1(W)	183	220	550	52	52	M16	2
BAM12/√3-300-1(W)	183	220	590	56	56	M16	2
BAM6.6/√3-334-1(W)	183	220	600	56	56	M16	2
BAM11/√3-334-1(W)	183	220	600	56	56	M16	2
BAM12/√3-334-1(W)	183	220	630	60	60	M16	2
BAM6.6/√3-400-1(W)	183	220	690	63	63	M16	2
BAM11/√3-400-1(W)	183	220	690	64	64	M16	2
BAM12/√3-400-1(W)	183	220	740	69	69	M16	2
BAM6.6/√3-500-1(W)	183	220	850	77	77	M16	2
BAM11/√3-500-1(W)	183	220	840	76	76	M16	2
BAM12/√3-500-1(W)	183	220	870	80	80	M16	2

Note: All products are subject to continuous improvement. Specifications are subject to change without notice. For more detailed information or products not listed by voltage, model, or specification, please contact our company.

Dimension Drawing

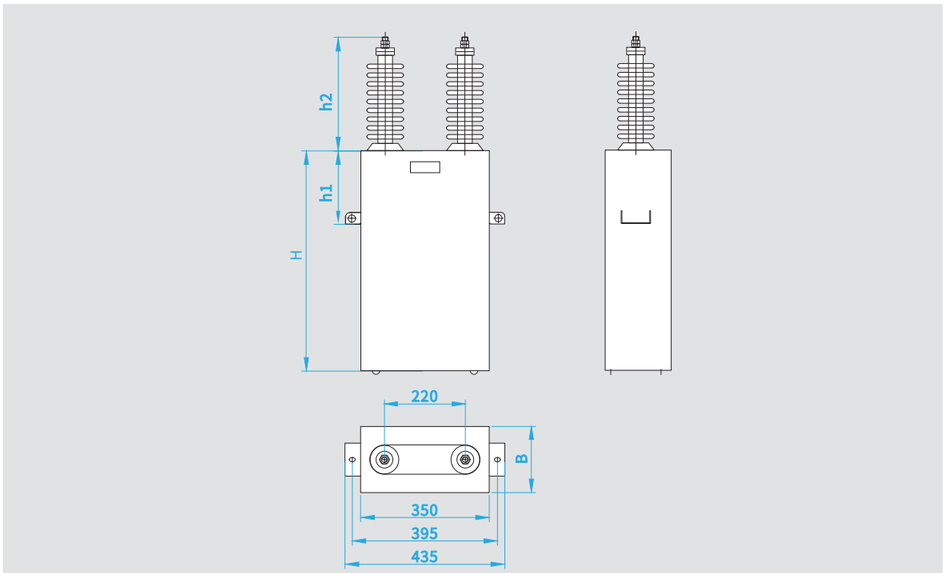


图1

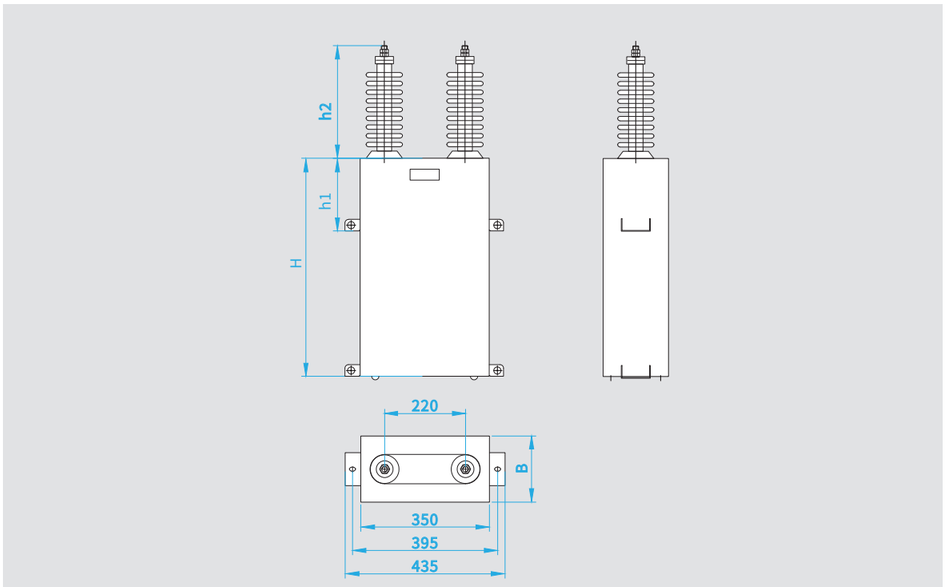


图2

CKSC Series High-Voltage Dry-Type Iron-Core Series Reactor

Sanhe Power Tech CKSC Series High-Voltage Dry-Type Iron-Core Series Reactors are designed for series connection to the grid branches of parallel capacitor banks. They effectively limit inrush currents during closing operations and suppress harmonics, ensuring the safe and reliable operation of capacitor banks. This improves power grid voltage quality and guarantees the secure operation of the power system. Suitable for power systems with voltage levels ranging from 3 to 35kV, as well as substations in applications with high fire prevention requirements, electromagnetic interference, and limited installation space—such as electrified railways, metallurgy, chemical processing, and petroleum industries.



产品特点

- Cold-rolled oriented silicon steel sheets are used, featuring ordered crystal structures, high magnetic permeability, low losses, high hardness, and excellent smoothness.
- Magnetic flux density is optimally controlled with exceptional linearity, remaining unsaturated at 1.8 times rated current.
- Coils are epoxy resin-encapsulated, offering flame retardancy, self-extinguishing properties, maintenance-free operation, high mechanical strength, strong short-circuit withstand capability, superior insulation strength, low partial discharge, and extended service life.
- Manufacturing technology for dry-type iron-core reactors minimizes vibration, noise, and magnetic leakage, reducing electromagnetic interference to the environment.
- The product features a compact overall structure with small installation dimensions and minimal space requirements.

主要技术参数

Rated frequency	50/60HZ
Facial Features	Single-phase or three-phase
System Rated Voltage	3~35kV
Rated reactance rate	0.1%, 0.3%, 0.5%, 1%, primarily used to limit inrush current during closing operations.
	4.5%, 5%, 6%, for limiting inrush current and suppressing 5th and higher harmonics
	12%, 13%, for limiting inrush current and suppressing third-harmonic and higher harmonics

型号说明

CK S C—□/□—□

- Reactance rate: %
- Rated voltage of matching capacitor: kV
- Rated capacity: kvar
- Formed solid
- D: Single-phase S: Three-phase
- Sanhe Power Tech Series Reactor

Common Specification Selection Table

Model	Rated current	Rated loss	External Dimensions (mm)			Installation Dimensions (mm)		Weight
	A	W	A	B	H	a	b	kg
CKSC-12/6.6-6	17.5	361	570	400	740	350	300	135
CKSC-24/6.6-6	34.99	607	660	400	810	400	300	220
CKSC-36/6.6-6	52.49	823	710	400	840	400	300	255
CKSC-54/6.6-6	78.73	1115	840	500	820	500	400	340
CKSC-72/6.6-6	104.98	1384	910	500	960	580	400	425
CKSC-90/6.6-6	131.22	1636	940	500	1060	600	400	510
CKSC-108/6.6-6	157.46	1809	970	500	1100	620	400	580
CKSC-144/6.6-6	209.95	2244	1150	550	1180	740	450	735
CKSC-180/6.6-6	262.43	2752	1150	550	1380	740	450	865
CKSC-216/6.6-6	314.93	3042	1320	600	1220	850	500	1080
CKSC-240/6.6-6	349.92	3292	1320	600	1290	850	500	1130
CKSC-12/11-6	10.5	361	580	400	750	350	300	135
CKSC-24/11-6	20.99	607	670	400	840	400	300	200
CKSC-36/11-6	31.49	823	720	400	870	400	300	260
CKSC-54/11-6	47.24	1115	780	450	990	450	350	350
CKSC-72/11-6	62.98	1384	900	500	1070	560	400	435
CKSC-90/11-6	78.73	1636	950	500	1110	590	400	520
CKSC-108/11-6	94.48	1809	950	500	1260	590	400	590
CKSC-144/11-6	125.97	2244	1120	550	1150	700	450	755
CKSC-180/11-6	157.46	2752	1200	600	1260	760	500	880
CKSC-216/11-6	188.95	3042	1200	600	1360	760	500	1100
CKSC-240/11-6	209.98	3292	1340	650	1350	860	550	1210

Note: All products are subject to continuous improvement. Specifications are subject to change without notice. For more detailed information or products not listed by voltage, model, or specification, please contact our company.

Reference Standard

IEC 60076.6-2007	《Reactor》
GB/T 1094.6-2011	《Power Transformers – Part 6: Reactors》
JB/T 5346-2019	《Series reactor for high voltage shunt capacitor》

Dimension Drawing

