

Innovative solutions for industrial controls and power distribution

In ensuring smooth operation of digital production environments and in the construction and operation of industrial or commercial buildings, the underlying power distribution and industrial controls are decisive:

SIRIUS, SENTRON, SIVACON and ALPHA provide a broad portfolio of systems and components for this purpose that can be used for standard-compliant, requirement-based electrification.

Efficient engineering tools and cloud-based solutions are part of the portfolio, which you can flexibly adapt to your specific requirements over the entire value-added process.



Your personal contact can be found at www.siemens.de/lowvoltage/kontakt

Catalog LV 10 · 04/2022

You will find the latest edition and all future editions in the Siemens Industry Online Support at www.siemens.com/lowvoltage/catalogs

Refer to the Industry Mall for current prices www.siemens.de/lowvoltage/mall



The products and systems described in this catalog are manufactured/ distributed under application of a certified quality management system in accordance with EN ISO 9001 (for the Certified Registration Nos., see www.siemens.com/system-certificates/ep).

The certificate is recognized by all IQNet countries.

Technical specifications

The technical specifications are for general information purposes only. Always heed the operating instructions and notices on individual products during assembly, operation and maintenance.

All illustrations are not binding.

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Low-Voltage Power Distribution and Electrical Installation Technology

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What is more, with a power monitoring system you lay the foundation for regular energy audits and a corporate energy management system according to ISO 50001 and ISO 50003.



Measuring Devices, Power Monitoring and Digitalization Solutions



A multitude of additional information ...

Information + ordering



All the important things at a glance

For information about measuring devices, power monitoring and digitalization solutions, please visit our websites

www.siemens.com/powermonitoring www.siemens.com/sentron-digital



i Your product in detail

The Siemens Industry Online Support (SIOS) provides comprehensive information

www.siemens.com/lowvoltage/product-support

- Technical basic information
 - SENTRON power monitoring and digital solutions (109769851)
- Brochure
 - Reliable, sustainable, and efficient TÜV-certified power monitoring system in accordance with ISO 50001 (109744679)
 - SENTRON portfolio for power monitoring (109744725)
 - SENTRON powermanager update and benefit (109805178)

The relevant tender specifications can be found at www.siemens.com/lowvoltage/tenderspecifications



Siemens YouTube channel

Power monitoring (general) bit.ly/2IZ9QqC



Everything you need for your order

Refer to the Industry Mall for an overview of your products

- Measuring devices and power monitoring sie.ag/2kTH9Lz
- Digitalization solutions sie.ag/2olliNi
- Library for SIMATIC sie.ag/2kpbwcs
- SENTRON powermanager/SENTRON powerconfig sie.ag/2kTJjuF

Direct forwarding to the individual products in the Industry Mall by clicking on the article number in the catalog or by entering this web address incl. article number www.siemens.com/product?Article No.



The fast track to the experts

Contact persons in your region

We offer a comprehensive portfolio of services. You can find your local contacts at www.siemens.com/lowvoltage/components/contact

You can find further information on services at www.siemens.com/service-catalog

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical gueries is provided at www.siemens.com/support-request

... can be found in our online services

Commissioning + operation



Your product in detail

The Siemens Industry Online Support (SIOS) provides detailed technical information www.siemens.com/lowvoltage/product-support

- · Operating instructions
- Certificates

Comprehensive mobile support via the Siemens Industry Online Support app available for download from the **App Store and Play Store**

You will find further information under:

www.siemens.com/support-app

Provision of 3D data (step and u3d data formats)

- Siemens Industry Mall www.siemens.com/lowvoltage/mall
- Image database www.siemens.com/lowvoltage/picturedb

Engineering data for CAD or CAE systems are available in the CAx Download Manager at www.siemens.com/cax



Face-to-face or online training

Our training courses can be found at www.siemens.com/sitrain-lowvoltage

- SENTRON circuit protection devices with measuring and communication function (WT-LVBCOM)
- Power Monitoring with SENTRON (WT-LVAEM)
- Energy Management with Powermanager 5.x User training (LV-PM5)
- Energy Management with Powermanager 5.x including graphic module - User training (LV-PM5-G)
- Communication with SENTRON components (LV-COM)

SENTRON powerconfig

The combined commissioning and service tool SENTRON powerconfig for communication-capable measuring devices, circuit protection devices and circuit breakers.

Free download SENTRON powerconfig via www.siemens.com/powerconfig

Free download SENTRON powerconfig mobile via App Store and Play Store



Manuals

Manuals are available for downloading in Siemens Industry Online Support at www.siemens.com/lowvoltage/manuals

- Configuration manual
- Measuring devices and power monitoring (45315973)
- Equipment manual 7KT PAC1600 energy meter (109759827) 7KT PAC1600 multimeter (109760293)
- PAC2200 measuring device (109746835)
- 7KM Power Monitoring Device PAC2200CLP
- SENTRON PAC3200 power monitoring device (26504150)
- PAC3200T measuring device (109746833)
- PAC3100 measuring device (37881976)SENTRON PAC5100/5200 7KM5212/5412
- 7KM PAC3120 and 7KM PAC3220 (109767307) 7KN POWERCENTER 3000 (109763838)
- System manual
- 7KT multichannel current measuring system (109483442)
- SENTRON PAC4200 power monitoring devices
- Circuit protection devices with communication and measuring function (109791806) Communication manual
- SENTRON PAC5100/5200 7KM5212/5412 (109477870)
- 3VA molded case circuit breakers with IEC and UL certification (98746267)
- SEM3TM
- Embedded Micro Metering Module™ (109748928)
- Quick Installation Guide
- 7KN POWERCENTER 3000 (109766001)
- Installation manual
- Circuit protection devices with communication and measuring function (109791805)



Technical overview – Measuring devices, power monitoring and digitalization solutions



The fast way to get you to our online services

This page provides you with comprehensive information and links on measuring devices, power monitoring and digitalization solutions

www.siemens.com/lowvoltage/product-support (109764480)

Power monitoring

Software

Local monitoring systems

Web

Mobile App





Web interface integrated

SENTRON powerconfig

Functions for power monitoring

Commissioning of measuring devices and circuit breakers Displaying current data Displaying/evaluating current/historical values Prepared analyses/reports **Customized reporting** Data analysis in the cloud

Additionally for energy management

Switching loads on and off

Free of charge Free of charge Operating environment System requirements Browser Android, iOS Suitable according to ISO 50001 Connection of non-Siemens devices Integrated cloud interface

More information From page 10/12

Measuring devices, circuit breakers and circuit protection devices

Measuring devices for industrial applications









1)

Measuring devices for buildings and infrastructure













7KM PAC5200

7KT PAC1200

Circuit breakers











3WA 3WL10/3VA27 3VA ETU5/8

Communication-capable circuit protection device









7KN Powercenter 1000/ 5ST3 COM AS+FC/ 5SL6 COM MCB/ 5SV6 COM AFDD/

3NA COM Fuse

3) Incl. module for Desigo CC building management

■ Function available

Other Modbus devices

- Function not available
- 1) Via WiFi 2) Via gateway (PAC4200)

4) Via XML/JSON

5) Via SPP2000

TIA Portal



SENTRON powermind (MindSphere)

Cloud

SIMATIC TIA Portal integrated

SIMATIC TIA Portal capable

-		_
-		-
-	_	-
-		-
Free of charge	License and trial license	-
Windows X64	Windows X64	-
-	■ (TÜV)	•
-		

PC-based

SENTRON

powermanager 3)

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SENTRON

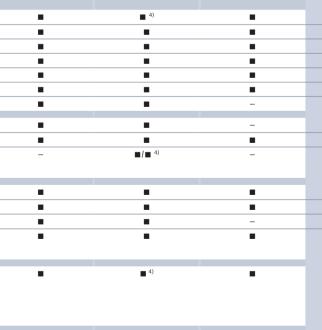
powerconfig

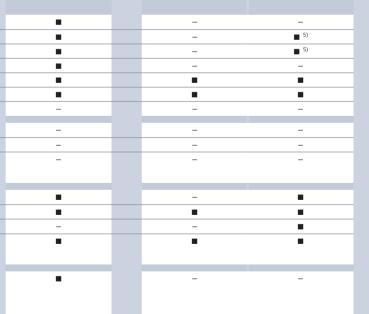
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7KN Powercenter

3000

Subscription Browser From page 10/20 



Hardware components

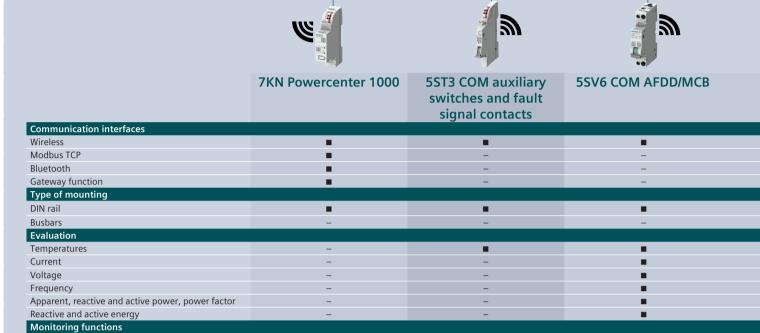
Industry 7KM **7KM** 7KM **7KM 7KM** 7KM PAC1020 PAC2200 PAC2200 **PAC3200T** PAC3120 PAC3220 **CLP** Type of mounting Front mounting | DIN rail | Screw mounting - | - | -**■**|-|--101-Withdrawable | Fixed-mounted Measuring connection Direct measurement Transformer measurement Multichannel measuring system Suitable transformers Window-type current transformers Folding transformer Integrated transformer Commissioning MID version 400 V/230 V 400 V/230 V 400 V/230 V 400 V/230 V 690 V/400 V 690 V/400 V Max. input voltage L-L/L-N Transformer connection version x/1 A or x/5 A Direct connection version 65 A 65 A DC power supply unit with 24 ... 60 V DC ±20 % 24 ... 60 V DC ±20 % extra-low voltage version 1-phase counter version Electrically isolated voltage inputs Version without display (for web interface) Measured quantities Average value of measured values Voltage, current, frequency Power, power factor **Energy measurement** Daily energy storage 60 days 60 days 60 days 60 days 60 days Apparent | Active | Reactive energy | p.f. Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording Flicker acc. to IEC 61000-4-15 **Monitoring functions** Operating hours counter Limit monitoring Logic functions Event log Gateway function Reporting acc. to EN 50160 Integrated fault recorder Integrated communication interfaces Digital inputs/digital outputs 1/1 S0 interface M-Bus RS485 (Modbus RTU) Ethernet with Modbus TCP **BACnet** More information See page 10/24 See page 10/24



Hardware components

Circuit protection devices

See page 3/50 and 4/62



See page 10/19

1)	Protection function provide	L but tripping	ic no	t communic	+04

Operating hours counter

Operating cycle counter

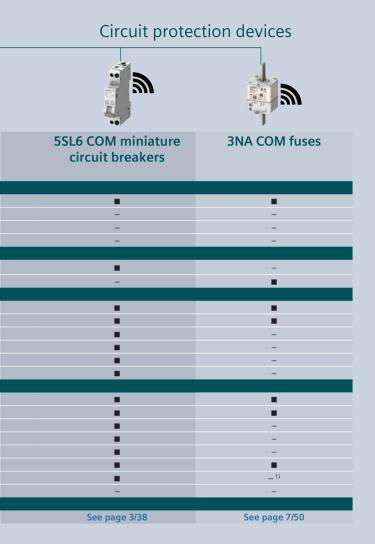
Short-circuit trip counter Alarms for limit monitoring Detection of overload and short circuit

Detection of arcing faults

More information

Trip counter

Operating hours counter with load current



Accessories

Communication modules



Expansion modules

Current transformers











2222222	2222222	2		
7KM PAC	7KM PAC	4NC	7KT	3NJ calibrated
4DI/2DO	I(N), I(Diff), analog			
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SENTRON powerconfig

Configuration software for commissioning and maintenance

SENTRON powerconfig is available free of charge at www.siemens.com/powerconfig

You can find more information on the Internet at www.siemens.com/sentron

- Software tool for the efficient commissioning and diagnostics of communication-capable SENTRON components
- Supports all electronic SENTRON devices, e.g. 3WA, 3WL, 3VA, 7KN Powercenter 3000 and 7KN Powercenter 1000, with 5ST3 AS+FC COM, 5SL6 MCB COM, 5SV6 AFDD COM and 3NA Fuse COM
- General range of functions:
 - User-friendly parameter assignment even for complex devices such as the 3WA
 - Fast, optical detection of communication and meteringcapable circuit protection devices, such as 7KN Powercenter 1000
 - Saving and printing of device settings
 - Monitoring, saving and printing of instantaneous measured quantities
 - Execution of specific device functions, such as resetting of devices and setting of energy counters

Free download SENTRON powerconfig mobile via:

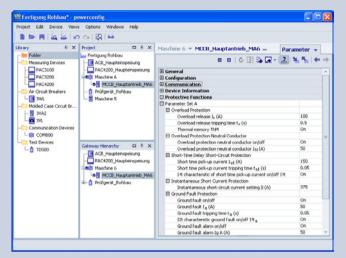




App Store

Play Store

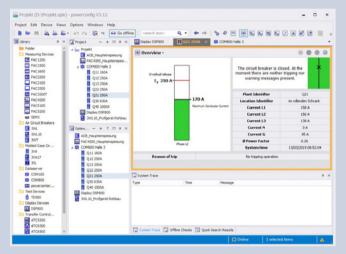
- Service functions:
 - Detection of devices and acquisition of measured quantities and status information via different networks, e.g. via
 - Device and status acquisition via local interfaces, such as Bluetooth and USB
 - Acquisition and archiving of historic records, such as load profiles and events
 - Firmware updates
 - Switching of language packs for 7KM PAC measuring devices
- Cooperative interaction between powerconfig mobile and powerconfig on the PC:
 - powerconfig mobile offers a high degree of mobile versatility, e.g. to scan codes on the circuit protection devices
 - powerconfig on the PC can be used for subsequent editing and archiving of the system configuration



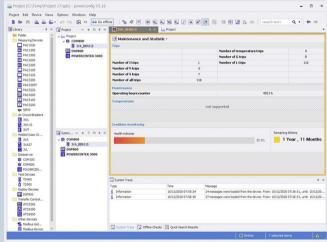
SENTRON *splx ■ Modbus TCP 7KN Powercenter 1000 SENTRON Powerconfig mobile 3NA COM 5SV6 COM 5SL6 COM 5ST3

Setting of parameter values

Scanning of circuit protection devices



Display of the circuit breaker status



Display of the state of health of the 3VA

SENTRON powermanager

PC-based power monitoring software





SENTRON powermanager

SENTRON powermanager is based on the modern Desigo CC platform with advanced graphical capabilities and a standard SQL database. The workflows for setting up the system, creating devices, graphically displaying the device data and processing it in reports have been fundamentally revised.

You can find the latest download and change information in the SIOS portal at

www.siemens.com/lowvoltage/product-support (109771760)

Updates and upgrades of version 4.x or higher are based on the SUS/SUR principles.

You can find more information in the brochure – SENTRON powermanager – update and benefit

www.siemens.com/lowvoltage/product-support (109805178)

If you wish to migrate from classic powermanager (3.6) to the current version, please get in touch with your local Siemens contact.

The "Trial" license gives customers the opportunity to gain initial experience with SENTRON powermanager during a 60-day test phase. The application can still be used by purchasing a regular license.

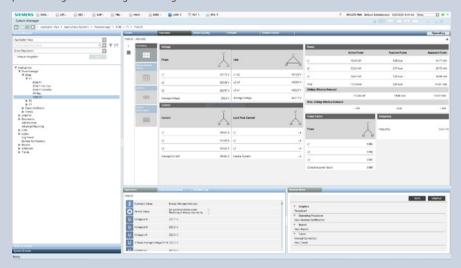
You can find more information on the Internet at www.siemens.com/powermanager

You can find training courses on the Internet at www.siemens.com/sitrain-lowvoltage

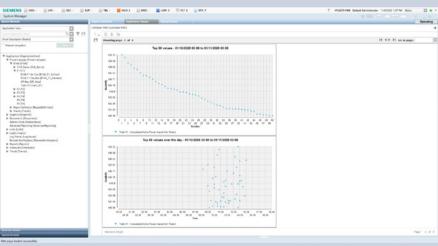
Version	Description	Article No.
powermanager		
Extended Package	Full product license for up to 10 devices, installation for client/server, web access	7KN2710-2CE40-0YC0
Trial license	Full product license limited to 60 days for up to 10 devices, incl. all functions; software download via SIOS Portal www.siemens.com/lowvoltage/product-support (109771760)	
	A free license for one-time use (limited to 60 days) must also be requested via powermanagerlicence.de@siemens.com	
Device expansions		
Device Pack (20)	Device expansion license for up to 20 devices	7KN2711-1CE40-0YC0
Device Pack (50)	Device expansion license for up to 50 devices	7KN2711-2CE40-0YC0
Device Pack (100)	Device expansion license for up to 100 devices	7KN2711-3CE40-0YC0
Device Pack (200)	Device expansion license for up to 200 devices	7KN2711-4CE40-0YC0
Device Pack (500)	Device expansion license for up to 500 devices	7KN2711-5CE40-0YC0
Device Pack (1000)	Device expansion license for up to 1000 devices	7KN2711-6CE40-0YC0
Option packs		
"Graphics Editor 60 Days" option pack	Option for creating any number of freely configured graphics, validity period limited to 60 days	7KN2712-0CE40-0YC0
"Graphics Editor Unlimited" option pack	Option for creating custom-made SENTRON powermanager applications, e.g. graphics; especially suitable for partners such as Solution Providers, control cabinet builders, etc.	7KN2712-0CE40-0YC1
"Client (2)" option pack	Expansion for up to 2 clients	7KN2712-1CE40-0YC0
"Client (5)" option pack	Expansion for up to 5 clients	7KN2712-2CE40-0YC0
"powermanager Server" option pack	Additionally, powermanager server license for distributed systems without devices, web, etc.	7KN2712-4CE40-0YC0
Powermanager SUR-Unit	Update – Extend subscription period by 12 months	7KN2713-7CE40-0YC0 new
Powermanager SUS-Unit	Update – Start new 12-month subscription period	7KN2713-8CE40-0YC0 new
System packages		
System 1	Package comprising 1× powermanager Extended 1× PAC4200 1× PAC3120 1× RS485 modules	7KN2715-1CE40-0YC0
System 3	Package comprising 1× powermanager Extended 3× PAC3220	7KN2715-3CE40-0YC0
System 4	Package comprising 1× powermanager Extended 1× PAC4200 4× PAC1600 1× RS485 module	7KN2715-4CE40-0YC0
System 5	Package comprising 1× powermanager Extended 5× PAC2200 transformer measurement Modbus TCP	7KN2715-5CE40-0YC0



powermanager – Measuring device diagram



powermanager - Overview of measuring devices

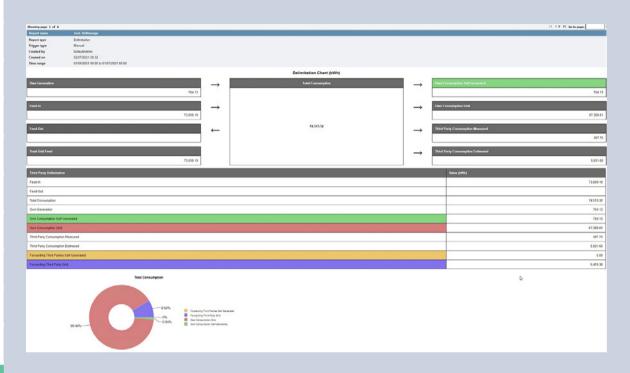


powermanager – Load duration report

SENTRON powermanager

PC-based power monitoring software



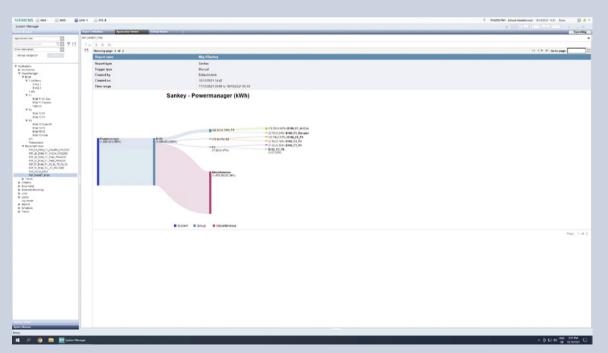




Third-party quantity report



Health Dashboard



Sankey Report

7KN Powercenter

Edge/IoT-based data acquisition and visualization for low-voltage power distribution

7KN Powercenter 3000

Areas of use and applications

- Basis for certified energy management according to ISO 50001 to improve energy efficiency and optimize maintenance management
- Transparency and fault localization in single and distributed locations
- Future-proof foundation for expanding data analysis from on-site analysis to cloud-based analysis

Features

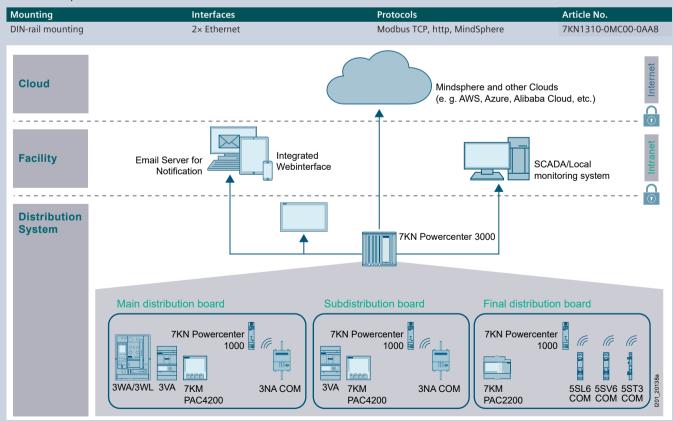
- Data acquisition/provision
 - All key data of lower-level devices
 - 15-minute energy values as a basis for ISO 50001
 - Export in form of CSV file (once, periodically)
- Visualization/data analysis
 - On the web interface (for all devices or for each device individually)
 - Analysis of data in graphical form, e.g. lines, bars, heatmap, Sankey diagram
 - Can also be output as a report
- · Interfaces for the digitalization of low-voltage
 - Integrated and easy-to-configure communication with SENTRON powermind (see separate section)
 - To other cloud applications, e.g. based on AWS, Azure, AliCloud, etc.

- Via Modbus TCP for other applications, e.g. SENTRON powermanager
- General:
 - Easy commissioning using powerconfig
 - Compact design, 24 V DC supply
 - Web interface in 10 languages
 - Flexible IT security features for protection against unauthorized access

More information: www.siemens.com/powermonitoring



Data visualization based on the example of a measuring device



Areas of use and applications for 7KN Powercenter 3000

Wireless data acquisition and visualization in the final circuit

7KN Powercenter 1000

The 7KN Powercenter 1000 data transceiver is designed to enable comprehensive data acquisition of communication and metering-capable circuit protection devices. This increases transparency in the final circuit, through which optimization measures can be derived to increase system availability.

Up to 24 devices can communicate wirelessly with 7KN Powercenter 1000 via radio link. This means that no increased installation effort is required for communication. Selected measured values of the circuit protection devices are stored in the data transceiver for up to 30 days. These can be visualized to ensure extensive data availability.

The compact design of the 7KN Powercenter 1000, in a single modular width, results in an extremely small footprint in the distribution board so as to enable wireless, comprehensive data acquisition.

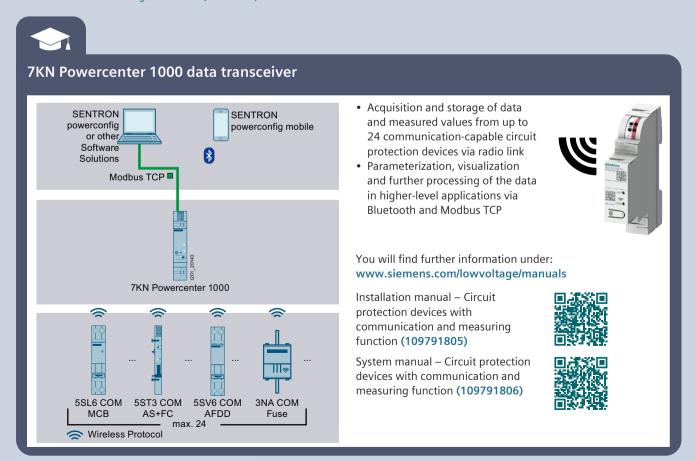
This is complemented by easy mounting on a 35 mm DIN rail and plug-in terminals for a 24 V DC power supply, which can be immediately looped through (daisy chain) to supply other devices.

The integrated Bluetooth interface enables simple on-site communication and commissioning via the SENTRON powerconfig mobile app. Connection to various configuration or power monitoring systems, such as SENTRON powerconfig, SENTRON powermanager or customized solutions, is ensured via the Modbus TCP interface. Furthermore, this interface also enables a connection via e.g. 7KN Powercenter 3000 or via LOGO! to cloud applications.

Mounting	Power supply	Devices that can be connected	Interfaces	Article No.
DIN-rail mounting	24 V DC SELV	24 circuit protection devices via	2× Ethernet	7KN1110-0MC00
		radio link		

Note:

Please note the country-specific radio licenses of the products in SIOS: www.siemens.com/lowvoltage/certificates (109801197)



SENTRON powermind



Cloud-based solution for data visualization and analysis in power distribution systems

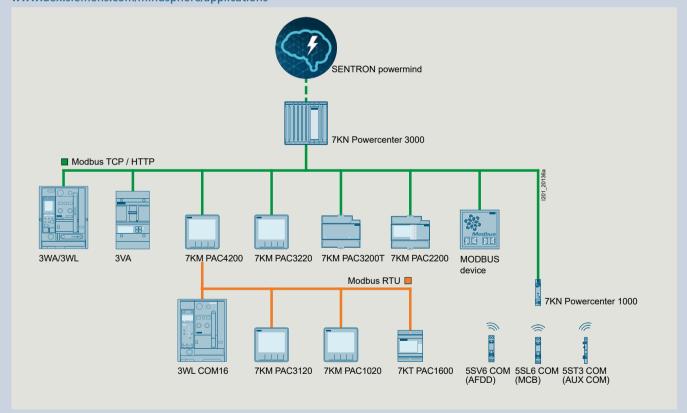
SENTRON powermind is aimed equally at energy managers, facility managers and/or operators. For energy managers, predefined, automated representations and analyses of energy data are available, such as:

- Analysis of data in graphical form, e.g. lines, bars, heatmap, Sankey diagram (Can also be output as a report)
- Comparison of energy consumption on weekdays versus weekends with percentage day-by-day representation of the distribution of energy consumption to identify unnecessary energy consumption
- Comparison of energy consumption and power import during a selected period as compared with a reference period to assess the effectiveness of energy efficiency measures
- Day-by-day representation of the 15 min power demand, incl. min and max values to assess power peaks

SENTRON powermind offers operators and facility managers the following information and analyses:

- Status of the switching and protection devices, such as 3VA, 3WA and 3WL
- Display of the maximum current value of an individual phase in relation to I_n
- Condition monitoring information about the condition of the contact system of each circuit breaker and also as an overview of all circuit breakers
- The following devices are supported: PAC1020, PAC2200/PAC2200CLP, PAC3100/PAC3120, PAC3200/PAC3200T/PAC3220, PAC4200 measuring devices, 3VA, 3WA and 3WL circuit breakers

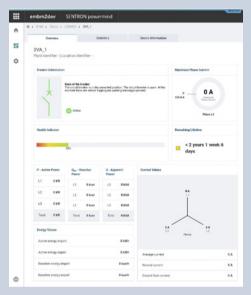
You can find more information on the MindSphere Store at www.dex.siemens.com/mindsphere/applications



A large number of devices transmit data via SENTRON Powercenter 3000 or SENTRON powermanager to SENTRON powermind

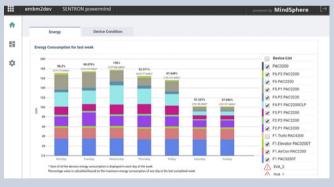
SENTRON powermind processes data from SENTRON Powercenter 3000. No complex configuration or parameterization is required, as the necessary information is exchanged using files. This also prevents possible incorrect entries or write errors. An error-free connection can thus be easily established in just a few minutes.

The examples show some of the functions of SENTRON powermind, which are aimed at different customer groups, such as energy managers and maintenance personnel, but also electricians. All information is available via a web browser on a standard PC, but also on mobile devices, such as tablets and smartphones. The information is therefore available both on-site (locally) and off-site (remotely).



Creating transparency

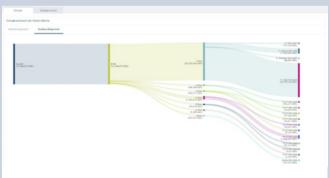
- Representation of the device status, e.g. open, closed, tripped and relevant measured quantities, such as maximum phase current, total power ...
- Information about the state of health of the device to take action proactively





Overview of the circuit breaker status

- Overview of the state of the health of all circuit breakers in the switchboard
- Assignment to a maintenance cycle (< 1 year; between 1 and 3 years; > 3 years)
- Display of circuit breakers in list form as well as link to the respective circuit breaker dashboard



Creating transparency

- Representation of the power flow/power import in various parts of the power distribution system
- Comparison of the weekly energy consumption (percentage distribution of weekdays in comparison to weekend) to identify unusual energy consumption patterns and to check energy-saving measures in the form of a bar chart or Sankey diagram





Energy management

- · Comparison of the energy consumption of two periods, for example, to assess the effectiveness of energy saving measures
- Representation of the active power as mean and min/max values in a line diagram or heatmap

SIMATIC Energy Suite

For integrated energy management

Highlights

- Simple and intuitive configuration instead of programming
- Automatic generation of the PLC energy program
- · Convenient integration of measuring components from the Siemens portfolio and from other manufacturers
- Integrated into the TIA Portal and the automation system
- Archiving in WinCC Professional or PLC
- Seamless interfacing to Energy Manager PRO and Energy
- Analytics

Additional information on the SIMATIC Energy Suite:

www.siemens.com/energysuite

SIMATIC Modbus/TCP SENTRON PAC

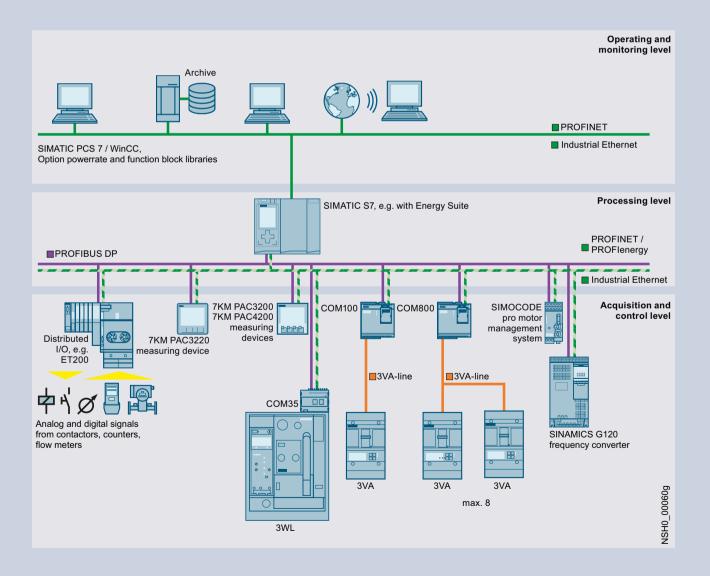
For 7KM PAC3200/4200 measuring devices

Use and version	Valid for	Туре	Article No.
Communication via the integrated	1 CPU and up to 20 SENTRON PACs	Modbus/TCP 20 SENTRON PAC	6AV6676-6MA30-0AX0
PN interface for reading values out	1 CPU and up to 100 SENTRON PACs	Modbus/TCP 100 SENTRON PAC	6AV6676-6MA30-1AX0
of PAC 3200 and PAC PAC 4200 devices, single license	1 CPU and up to 512 SENTRON PACs	Modbus/TCP 512 SENTRON PAC	6AV6676-6MA30-2AX0

PAC/3WL/3VA SIMATIC PCS 7 library

For 7KM PAC3200/3220/4200 measuring devices and 3WL/3VA/3VL circuit breakers

Use	Version	Type of delivery	Article No.
PAC/3WL/3VA SIMATIC PCS 7 library			
AS blocks and faceplates for integrating the 3WL/3VA/3VL circuit breakers into SIMATIC PCS 7, V8.x, V9.0 SP2 or V9.1 For each SIMATIC PCS 7 Operator Station of the single station/server version, a license containing the following is required: Engineering license for one SIMATIC PCS 7 Operator Station of the single station/server version Runtime license for one automation system (1 required per automation system, further AS runtime licenses can be ordered separately)	Engineering and runtime software, software class A, 2-language (English, German), single license for one installation	Software and electronic documentation as a software download, engineering and runtime license as Certificate of License	3ZS2787-1CC30-0YG0
AS runtime license for PAC/3WL/3VA library for SIMATION	C PCS 7		
License for one automation system in each case	Runtime software, software class A, 2-language (English, German), single license for one installation	Runtime license as Certificate of License without software and documentation	3ZS2787-1CC30-6YH0



7KM PAC measuring devices

Basic units







tions	rower suppry	Display	interrace	IVIID	A50.7	/ KIVI FACTUZU	/ RIVI FAC2200/FAC2200 CLF	/ KIVI FAC32001
Transform	ner measurement							
Screw	Self-powered	With	M-Bus	With	Without	-	7KM2200-2EA30-1GA1	-
terminals				Without	Without	-	7KM2200-2EA30-1CA1	-
			Modbus RTU	With	Without	-	7KM2200-2EA30-1HA1	-
				Without	Without	-	7KM2200-2EA30-1DA1	-
			Modbus TCP	With	With	-	7KM2200-2EA00-1JB1	-
					Without	-	7KM2200-2EA30-1JA1	-
				Without	Without	-	7KM2200-2EA30-1EA1	-
	AC/DC wide-volta-	With	Modbus RTU	Without	Without	7KM1020-0BA01-1DA0	-	-
	ge power supply		Modbus TCP	Without	Without	-	-	-
	unit	Without	Modbus TCP	Without	Without	-	-	7KM3200-0CA01-1AA0
	DC power supply	With	Modbus TCP	Without	Without	-	-	-
	unit with extra-low voltage		Modbus RTU	Without	Without	-	-	-
Ring cable lug connec- tion	AC/DC wide-volta- ge power supply unit	With	Modbus TCP	Without	Without	-	-	-
Direct me	asurement							
Screw	Self-powered	With	M-Bus	With	Without	-	7KM2200-2EA40-1GA1	-
terminals				Without	Without	-	7KM2200-2EA40-1CA1	-
			Modbus RTU	With	Without	-	7KM2200-2EA40-1HA1	-
				Without	Without	-	7KM2200-2EA40-1DA1	-
			Modbus TCP	With	With	-	7KM2200-2EA40-1JB1	
					Without	-	7KM2200-2EA40-1JA1	-
				Without	Without	-	7KM2200-2EA40-1EA1	-

Further technical sp	7KM1020	7KM2200	7KM3200	7KM3120-0	7KM3120-1	
Basic data						
Installation		Front mounting	DIN rail		Front mounting	
Modular width		-	6 MW		-	
Control panel instrument		96 × 96 mm	-		96 × 96 mm	
External auxiliary voltage	50/60 Hz AC	100 250 V	-	90 276 V	100 250 V ±10%	-
	DC	110 250 V ±10%	-	110 275 V	110 250 V ±10%	24 60 V ±20%
Measuring inputs						
Transformer connection	Secondary input current I _e	x/1 A or x/5 A	x/1 A or x/5 A		x/1 A or x/5 A	
Direct connection	Input voltage U _e 3 AC 50/60 Hz	400/230 V			690/400 V	
	Rated current I _n	-	65 A	-		











7KM PAC3120	7KM PAC3220	7KM PAC4200	7KM PAC5200
-	_	_	_
-	_	_	_
-	_	-	_
-	_	-	_
-	_	-	_
-	_	-	_
-	_	-	-
7KM3120-0BA01-1DA0	_	-	_
-	7KM3220-0BA01-1DA0	7KM4212-0BA00-3AA0	7KM5412-6BA00-1EA2
-	_	-	7KM5412-6CA00-1EA8
-	7KM3220-1BA01-1EA0	7KM4211-1BA00-3AA0	_
7KM3120-1BA01-1EA0	-	-	-
-	-	7KM4212-0BA00-2AA0	-
-	-	-	-
-	_	-	-
-	-	-	-
-	-	-	-
-	_	-	-
-	-	-	-

7KM3220-0	7KM3220-1	7KM4212	7KM4211	7KM5412
Front mounting				Front mounting/DIN rail
-				
96 × 96 mm				
100 250 V ±10%	-	95 240 V ±10%	-	110 230 V ±10%
100 250 V ±10%	24 60 V ±20%	110 340 V ±10%	22 65 V ±10%	24 250 V ±10%
x/1 A or x/5 A				
690/400 V			500/289 V	690/400 V
_				

7KM PAC measuring devices

Accessories

7KM PAC3120 7KM PAC3220 **7KM PAC1020** 7KM PAC4200 7KM PAC TMP2 DIN-rail adapter • Two-tier adapter for mounting a measuring device on a DIN rail Front display For manual intervention 7KM9900-0XA00-0AA0 7KM PAC TMP mounting plate Adapter for mounting a measuring device on DIN rail • Display faces backwards towards DIN rail Readout and evaluation of measurements solely via mains operation 7KM9900-0YA00-0AA0 Compact holder Device holder for 7KM PAC1020/3100/3120/3200/3220/4200 • 10 holders for 5 PAC devices For seamless side-by-side mounting of the devices (without spaces) 7KM9900-0GA00-0AA0 Spare parts for 7KM PAC · Spare parts comprising: Device holders for panel mounting (2X) Screw terminal for connection of voltage inputs Screw terminal for connection of current inputs Terminal block inputs/outputs for 7KM PAC3100/4200 Terminal block inputs/outputs for 7KM PAC3200 RS485 terminal blocks for 7KM PAC3100 7KM9900-0SA00-0AA0

TKM PAC2200
7KM PAC2200 CLP
7KM PAC2200 MID

SENTRON PROFINET Proxy SPP2000 new

Proxy for transition from Modbus TCP-capable measuring devices to PROFINET
10. Connection of up to 8 devices from the PAC2200, PAC2200 CLP, PAC2200
MID and PAC3200T product ranges
PROFINET Conformance Class C
Two switched ports
Integration in TIA by means of GSDML file

Quick selection guide, page 10/10

7KM9300-0PP20-0AA0

Expansion and communication modules

		7KM PAC3220 7KM PAC4200	COM100/800 (3VA)
7KM Switched E	thernet PROFINET communication module		
0 ()	 Latest PROFINET switching properties S2 system redundancy for operation in H systems CiR Configuration in Run Firmware update via the modules for PAC4200 and PAC3220 	7KW0300.0	DAE02-0AA0
PPPPPPP		71(11)3500 (5/1E02 0/V10
7KM PROFIBUS I	DP communication module		
- (c		7KM9300-0	DAB01-0AA0
7KM RS485 com	munication module		
**************************************		7KM9300-0/	AM00-0AA0 ¹⁾
7KM PAC 4DI/2D	OO expansion module		
***************************************		7KM9200-0AB00-0AA0	-
7KM PAC I(N), I(Diff), analog expansion module		
William To Co	To add the following functions to the measuring inputs: N conductor measurement Two analog inputs, also for measuring non-electrical quantities such as temperature, water or air pressure Residual current measurement via type A or type B summation current transformers		
		7KM9200-0AD00-0AA0	-

¹⁾ Suitable for 7KM PAC4200 (especially for the Modbus TCP/RTU Gateway)

Residual-current transformers for 7KM PAC I(N), I(Diff), analog expansion module, from page 11/1 onwards

7KT PAC measuring devices

PAC1600 basic unit



Connections	Version	Power supply	Display	Interface	MID	7KT PAC1600
Transformer meas	surement					
Screw terminals	3-phase	Self-powered	With	Modbus RTU	Without	7KT1661
					With	7KT1662
				M-Bus	Without	7KT1663
					With	7KT1664
				S0 interface	Without	7KT1672
					With	7KT1673
	3-phase, universal	Auxiliary power:	With	_	Without	7KT1681
		100 240 V AC, 110 250 V DC 50/60Hz		Modbus RTU	Without	7KT1682
Direct measureme	ent					
Screw terminals	1-phase	Self-powered	With	Modbus RTU	Without	7KT1651
					With	7KT1652
				M-Bus	Without	7KT1653
					With	7KT1654
				S0 interface	Without	7KT1655
					With	7KT1656
	3-phase	Self-powered	With	Modbus RTU	Without	7KT1665
					With	7KT1666
				M-Bus	Without	7KT1667
					With	7KT1668
				S0 interface	Without	7KT1670
					With	7KT1671

PAC1200 multichannel current measuring system



Connections	Version	Power supply	Display	Interface	MID	7KT PAC1200
Direct measurement						
Screw terminals	3-phase	Self-powered	Without	Modbus TCP	Without	7KT1260

PAC1200		7KT PAC1200
Data manager with 7KT		
	Number of connections	Article No.
	3	7KT1233
a dana	6	7KT1236
· · · · · · · · · · · · · · · · · · ·	9	7KT1238
- Andreas	12	7KT1242
Data manager with 7KT	1260, sensors	
	Current I _e	Article No.
	40 A	7KT1254
3	63 A	7KT1255

PAC1200 Bundles





Data manager	Sensor bars	Sensors	18 bundle	24 bundle
1× data manager 7KT1260	2× 9-sensor bar 7KT1238	18× sensors 40 A 7KT1254	7KT1222	-
	2× 12-sensor bar 7KT1242	24× sensors 40 A 7KT1254	-	7KT1223

SEM3 multichannel current measuring system

Data manager



Connections	Version	Power supply	Display	Interface	MID	
Transformer meas	urement					
Screw terminals	3-phase	Self-powered	Without	Modbus TCP RS485 Modbus RTU	Without	US2:SEM3CONTROLLER

Further technical specifications	SEM3
Basic data	
Installation	Screw mounting
Measuring inputs	
Max. input voltage 50/60 Hz AC	480 V/277 V
Standard current transformers	50 1200 A/0.1 A
Folding transformer	50 2000 A/0.1 A

Accessories

Metering modules



- For recording measured values Accuracy of 0.2% or 1% for the entire measurement including current transformer
- Simple setting of phase configuration by means of slide switch
- Connection of a current transformer for measuring a phase
- Metering module is plugged into meter rack

Measuring accuracy	Article No.
0.2%	US2:SEM3PHAMETER
1%	US2:SEM3PLAMETER



	Version	Article No.
	For 3 metering modules	US2:SEM3RACK3
	For 9 metering modules	US2:SEM3RACK9
	For 15 metering modules	US2:SEM3RACK15
	For 21 metering modules	US2:SEM3RACK21



• 600 V insulated special cable for connecting meter racks to the data manager

Length	Article No.
0.3 m	US2:SEM3CAB12INCH
0.6 m	US2:SEM3CAB24INCH
0.9 m	US2:SEM3CAB36INCH



- Standard power cable brown and yellow, 1.82 m long
- Can be extended up to 100 m while still maintaining accuracy
- Transformer configuration is carried out in the data manager

	Output signal	Transformer transmission ratio	Article No.
	100 mA	50:0.1	US2:SEM3SCCT50
		125 : 0.1	US2:SEM3SCCT125
		250:0.1	US2:SEM3SCCT250
		400:0.1	US2:SEM3SCCT400
		600:0.1	US2:SEM3SCCT600
		800:0.1	US2:SEM3SCCT800
		1200 : 0.1	US2:SEM3SCCT1200

Folding transformers



- Standard power cable brown and yellow, 1.82 m long
- · Can be extended up to 100 m while still maintaining accuracy
- Transformer configuration is carried out in the data manager

	Output signal	Transformer transmission ratio	Article No.
	100 mA	50:0.1	7KT1280-5MA00
		125:0.1	7KT1280-5MA01
		250:0.1	7KT1280-5MA02
		400:0.1	7KT1280-5MA03
		600:0.1	7KT1280-5MA04
		800:0.1	7KT1280-5MA05
		1200:0.1	7KT1280-5MA06
		1600:0.1	7KT1280-5MA07
		2000 • 0.1	7KT1280-5MA08

DIN-rail adapters



- 5 adapters for snapping onto DIN rail
- 1 adapter each for data manager and for meter racks with 3, 9, 15 and 21 metering modules
 Adapters are screwed onto the data manager or the meter racks

US2:SEM3DINKIT

SEM3T multichannel temperature measuring system new

Data manager for thermal monitoring in electrical systems



Connections	Version	Power supply	Display	Interface	
Plug-in connectors	Temperature	24 V DC	Without	Modbus TCP	7KT1281-0AA00
	measurement			Modbus TCP/Wi-Fi	7KT1281-0AA10

Further technical specifications	SEM3T
Basic data	
Installation	DIN-rail mounting
Measuring inputs	
Temperature sensors	0 to 130°C

Accessories

Metering module



- For recording measured values No configuration necessary for modules
- Connection of a temperature sensor Metering module is plugged into meter rack

Article No.
7KT1281-1AA00

Meter	racks
-------	-------



Version	Article No.
For 3 metering modules	US2:SEM3RACK3
For 9 metering modules	US2:SEM3RACK9
For 15 metering modules	US2:SEM3RACK15
For 21 metering modules	US2-SFM3RACK21



600 V insulated special cable for connecting meter racks to the data manager	
Length	Article No.
0.3 m	US2:SEM3CAB12INCH
0.6 m	US2:SEM3CAB24INCH
0.0 m	LICA, CEMACA DAGINICH

Temperature sensors

- Standard connection cable, brown and yellow, 3 m long
 Can be extended up to 15 m while still maintaining accuracy
- Configuration is carried out in the data manager



	Version	Size	Article No
th	Sensors with ring terminal lugs	<u> </u>	
3 .	Sensors with ring terminal lugs	Sensor 1/4"	/K11281-2SA00
		Sensor 5/16"	Article No. 7KT1281-2SA00 7KT1281-2SA01 7KT1281-2SA02 7KT1281-2SA03 7KT1281-2CA00
		Sensor 3/8"	7KT1281-2SA02
		Sensor 1/2"	7KT1281-2SA03
Se.	Cylindrical sensor		7KT1281-2CA00



Time and pulse counters

Mechanical counting mechanisms







				_		
Display	Resetting	Rated frequency	Rated control supply voltage $U_{\rm c}$	48 × 48 mm	72 × 72 mm	-
Time counter						
00000.00 h	Without	-	10 80 V DC	7KT5500	-	-
			10 50 V DC	-	7KT5600	-
			12 24 V DC	-	-	7KT5801
		50 Hz	24 V AC	7KT5505	-	7KT5802
	115 V	115 V AC	7KT5501	7KT5601	7KT5803	
			230 V AC	7KT5502	7KT5602	7KT5804
		60 Hz	115 V AC	7KT5503	7KT5603	7KT5806
			230 V AC	7KT5504	7KT5604	7KT5807
Pulse counter						
0000000	Without	_	12 24 V DC	-	-	7KT5811
		50/60 Hz	24 V AC	-	-	7KT5812
			230 V AC	-	-	7KT5814

Further technical specifications	7KT55	7KT56	7KT58
Basic data			
Installation	Front mounting		DIN rail
Modular width	-		2 MW
Front frame	48 × 48 mm	72 × 72 mm	-
Display	Drum-type register		
Version	-	With narrow frame according to DIN 43700	-

Accessories		7KT55	7KT56	7KT58	
Cover					
	Size		Article No.	Article No.	Article No.
	55 × 55 mm		7KT9020	-	-
Sealing ring for cove	er				
	Degree of protection	Scope of supply	Article No.	Article No.	Article No.
	IP43 (in switchboards with smooth surfaces)	1 set = 5 units	7KT9000	-	-
Terminal cover					
	Degree of protection			Article No.	Article No.
	IP20 (with connected conductors)		-	7KT9021	-

Electronic counting mechanisms



Display	Resetting	Rated frequency	Rated control supply voltage $U_{\rm c}$	7KT5821 7KT5822 7KT5823	
Time counter					
000000.0 h	Without	50/60 Hz	24 240 V AC, 12 150 V DC	7KT5821	
	Electrical	50/60 Hz	24 240 V AC, 12 150 V DC	7KT5822	
	Electrical and mechanical	50/60 Hz	24 240 V AC, 12 150 V DC	7KT5823	
Pulse counter					
0000000	Electrical and mechanical	50/60 Hz	24 240 V AC, 12 150 V DC	7KT5833	

Further technical specifications	7KT58
Basic data	
Installation	DIN rail
Modular width	2 MW
Display	LCD display

Current transformers

For measuring purposes

				4NC ¹⁾		7KT	3NJ ¹⁾	
				1-phase		3-phase	1-phase	
						Colors F NAME	SEMENS THE SEMENT OF T	SEMENS Make 5 special 22 de la 1 frag. Make 5 special 23 de la 1 frag. Make 5 special 24 de la 1 frag. Make 5 special Make 5 special
Size	Insulation level U _m	Rated primary current I _{pr}	Rated power P _n	I _{sr} = 5 A	I _{sr} = 1 A	I _{sr} = 5 A	I _{sr} = 5 A	I _{sr} = 1 A
Accuracy	y class 0.2s	pi						
1	720 V	150 A	1 VA	4NC5121-2FA21	-	-	-	-
		200 A	2.5 VA	4NC5122-2FC21	_	-	_	-
		250 A	2.5 VA	4NC5123-2FC21	_	-	_	-
		300 A	5 VA	4NC5124-2FE21	-	-	_	-
		400 A	5 VA	4NC5125-2FE21	-	-	_	-
		500 A	5 VA	4NC5126-2FE21	_	-	-	-
5	720 V	600 A	5 VA	4NC5227-2FE21	_	-	_	_
		700 A	5 VA	4NC5228-2FE21	-	-	_	-
		800 A	5 VA	4NC5231-2FE21	_	-	_	-
		1000 A	5 VA	4NC5232-2FE21	_	-	_	_
Accuracy	y class 0.5							
1	720 V	100 A	1 VA	4NC5117-2DA21	4NC5117-0DA21	-	-	-
		150 A	2.5 VA	4NC5121-2DC21	4NC5121-0DC21	-	-	-
		200 A	5 VA	4NC5122-2DE21	4NC5122-0DE21	-	_	-
		250 A	5 VA	4NC5123-2DE21	4NC5123-0DE21	-	-	-
2	720 V	200 A	5 VA	4NC5222-2DE21	4NC5222-0DE21	-	-	-
		250 A	5 VA	4NC5223-2DE21	4NC5223-0DE21	-	_	-
		300 A	5 VA	4NC5224-2DE21	4NC5224-0DE21	-	_	-
		400 A	5 VA	4NC5225-2DE21	4NC5225-0DE21	-	_	-
3	720 V	400 A	5 VA	4NC5325-2DE21	4NC5325-0DE21	-	-	-
		500 A	5 VA	4NC5326-2DE21	4NC5326-0DE21	-	-	-
		600 A	5 VA	4NC5327-2DE21	4NC5327-0DE21	-	_	-
		750 A	5 VA	4NC5330-2DE21	4NC5330-0DE21	-	-	-
		800 A	5 VA	4NC5331-2DE21	-	-	-	-
4	720 V	800 A	10 VA	4NC5431-2DH21	4NC5431-0DH21	-	-	-
		1000 A	10 VA	4NC5432-2DH21	4NC5432-0DH21	-	-	-
		1200 A	10 VA	4NC5433-2DH21	4NC5433-0DH21	-	-	-
		1500 A	10 VA	4NC5435-2DH21	4NC5435-0DH21	-	-	-
		1600 A	15 VA	4NC5436-2DK21	-	-	-	-
		2000 A	20 VA	4NC5438-2DL21	-	-	-	-
		2500 A	25 VA	4NC5440-2DM21	-	-	-	-
		3000 A	30 VA	4NC5441-2DN21	-	-	-	-
Accuracy	y class 0.5 calibrate	ed						
-	720 V	100 A	1.5 VA	-	-	-	3NJ6920-3BD23	3NJ6920-3BD13
		150 A	2.5 VA	-	-	-	3NJ6920-3BE23	3NJ6920-3BE13
		300 A	5 VA	-	-	-	3NJ6940-3BH23	3NJ6940-3BH13
		400 A	5 VA	-	-	-	3NJ6940-3BJ23	3NJ6940-3BJ13
		500 A	5 VA	-	-	-	3NJ6940-3BK23	3NJ6940-3BK13

¹⁾ Overcurrent limiting factor FS5

3NJ6940-3BL23 3NJ6940-3BL23

600 A

5 VA



Size Insulation level Vument Vertex Ve					2	2			
1	Size				I _{sr} = 5 A	I _{sr} = 1 A	I _{sr} = 5 A	I _{sr} = 5 A	I _{sr} = 1 A
Facility Facility	Accurac	y class 1.0							
1.25 VA	1	720 V	50 A	1.2 VA	4NC5112-2CB21	4NC5112-0CB21	-	-	_
T			60 A	1.2 VA	4NC5113-2CB21	4NC5113-0CB21	-	-	-
100 A 2.5 VA 4NC5117-2CC21 4NC5117-0CC21 7KT1201 - - - -				1.25 VA	-	-	7KT1200	-	-
150 A 2.5 VA 4NC5121-2CC21 4NC5121-0CC21 - - - -			75 A	2.5 VA	4NC5115-2CC21	4NC5115-0CC21	-	-	-
Signature Sign			100 A	2.5 VA	4NC5117-2CC21	4NC5117-0CC21	7KT1201	-	-
200 A 5 VA 4NC5122-2CE21 4NC5122-0CE21 - - - - - 250 A 5 VA 4NC5123-2CE21 4NC5123-0CE21 - - - 250 A 5 VA 4NC5222-2CE21 4NC5222-0CE21 - - - 250 A 5 VA 4NC5223-2CE21 4NC5223-0CE21 - - - 250 A 5 VA 4NC5223-2CE21 4NC5223-0CE21 - - - 300 A 5 VA 4NC5223-2CE21 4NC5223-0CE21 - - - 400 A 5 VA 4NC5225-2CE21 4NC5225-0CE21 - - - 500 A 5 VA 4NC5225-2CE21 4NC5325-0CE21 - - - 500 A 5 VA 4NC5325-2CE21 4NC5325-0CE21 - - - 600 A 5 VA 4NC5327-2CE21 4NC5327-0CE21 - - - 600 A 5 VA 4NC53030-2CE21 4NC5330-0CE21 - - - 750 A 5 VA 4NC5330-2CE21 4NC5330-0CE21 - - - 4 720 V 800 A 10 VA 4NC5431-2CH21 4NC5431-0CH21 - - - 1000 A 10 VA 4NC5432-2CH21 4NC5432-0CH21 - - - 1250 A 10 VA 4NC5434-2CH21 4NC5434-0CH21 - - - 1500 A 10 VA 4NC5435-2CH21 4NC5435-0CH21 - - - 2000 A 12.5 VA 4NC5438-2CJ21 4NC5438-0CJ21 - - - 2500 A 12.5 VA 4NC5438-2CJ21 4NC5438-0CJ21 - - - 2500 A 12.5 VA 4NC5440-2CJ21 4NC5436-0CJ21 - - - 500 A 12.5 VA 4NC5440-0CJ21 4NC5440-0CJ21 - - - 500 A 12.5 VA 4NC5440-0CJ21 4NC5440-0CJ21 - - - 500 A 12.5 VA 4NC5440-0CJ21 4NC5440-0CJ21 - - - 500 A 12.5 VA 4NC5440-0CJ21 4NC5440-0CJ21 - - - 500 A 12.5 VA 4NC5440-0CJ21 5NC5440-0CJ21 - - - 500 A 12.5 VA 4NC5440-0CJ21 5NC5440-0CJ21 - - - 500 A 12.5 VA 4NC5440-0CJ21 5NC5440-0CJ21 - - 500 A 12.5 VA 4NC5440-0CJ21 4NC5440-0CJ21 - - 500 A 12.5 VA 4NC5440-0			150 A	2.5 VA	4NC5121-2CC21	4NC5121-0CC21	-	-	-
250 A 5 VA 4NC5123-2CE21 4NC5123-0CE21				3.75 VA	-	-	7KT1202	-	-
2 720 V 200 A 5 VA 4NC5222-2CE21 4NC5223-0CE21			200 A	5 VA	4NC5122-2CE21	4NC5122-0CE21	-	-	-
250 A			250 A	5 VA	4NC5123-2CE21	4NC5123-0CE21	-	-	-
300 A 5 VA 4NC5224-2CE21 4NC5225-0CE21	2	720 V	200 A	5 VA	4NC5222-2CE21	4NC5222-0CE21	_	-	_
A00 A			250 A	5 VA	4NC5223-2CE21	4NC5223-0CE21	-	_	-
3 720 V 400 A 5 VA 4NC5325-2CE21 4NC5325-0CE21			300 A	5 VA	4NC5224-2CE21	4NC5224-0CE21	-	_	-
500 A 5 VA 4NC5326-2CE21 4NC5326-0CE21 - - - - -			400 A	5 VA	4NC5225-2CE21	4NC5225-0CE21	-	-	-
600 A 5 VA 4NC5327-2CE21 4NC5327-0CE21	3	720 V	400 A	5 VA	4NC5325-2CE21	4NC5325-0CE21	-	-	-
750 A 5 VA 4NC5330-2CE21 4NC5330-0CE21			500 A	5 VA	4NC5326-2CE21	4NC5326-0CE21	-	_	_
4 720 V 800 A 10 VA 4NC5431-2CH21 4NC5431-0CH21			600 A	5 VA	4NC5327-2CE21	4NC5327-0CE21	-	-	-
1000 A 10 VA 4NC5432-2CH21 4NC5432-0CH21			750 A	5 VA	4NC5330-2CE21	4NC5330-0CE21	-	-	-
1250 A 10 VA 4NC5434-2CH21 4NC5434-0CH21	4	720 V	800 A	10 VA	4NC5431-2CH21	4NC5431-0CH21	-	-	-
1500 A 10 VA 4NC5435-2CH21 4NC5435-0CH21 - - - 2000 A 12.5 VA 4NC5438-2CJ21 4NC5438-0CJ21 - - - 2500 A 12.5 VA 4NC5440-2CJ21 4NC5440-0CJ21 - - -			1000 A	10 VA	4NC5432-2CH21	4NC5432-0CH21	-	-	-
2000 A 12.5 VA 4NC5438-2CJ21 4NC5438-0CJ21			1250 A	10 VA	4NC5434-2CH21	4NC5434-0CH21	-	-	-
2500 A 12.5 VA 4NC5440-2CJ21 4NC5440-0CJ21			1500 A	10 VA	4NC5435-2CH21	4NC5435-0CH21	-	-	-
			2000 A	12.5 VA	4NC5438-2CJ21	4NC5438-0CJ21	-	-	-
3000 A 30 VA 4NC5441-2CN21			2500 A	12.5 VA	4NC5440-2CJ21	4NC5440-0CJ21	-	-	-
			3000 A	30 VA	4NC5441-2CN21	-	-	-	-
			3000 A	30 VA	4NC5441-2CN21	-	-	-	-

Accessories



For transformer size	Article No.	Article No.	Article No.	Article No.	Article No.
1 and 5	4NC5923-5LT21	4NC5923-5LT21	-	-	-
2	4NC5925-5LT21	4NC5925-5LT21	-	-	-
3	4NC5930-5LT21	4NC5930-5LT21	-	-	-
4	4NC5940-5LT21	4NC5940-5LT21	-	-	-



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Conditions of sale and delivery

1. General Provisions

By using this catalog you can purchase products (hardware, software and services) described therein from Siemens Aktiengesellschaft subject to the following Terms and Conditions of Sale and Delivery (hereinafter referred to as "T&C"). Please note that the scope, the quality and the conditions for supplies and services, including software products, by any Siemens entity having a registered office outside Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. The following T&C apply exclusively for orders placed with Siemens Aktiengesellschaft, Germany.

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For customers with a seat or registered office in European Union, the following terms and conditions apply subordinate to T&C:

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- for stand-alone software products and software products forming a part of a product or project, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or registered Office in Germany"¹⁾ and/or
- for consulting services the "Allgemeine Geschäftsbedingungen für Beratungsleistungen der Division DF – Deutschland" (available only in German) and/or
- for other services, the "Supplementary Terms and Conditions for Services ("BL")¹⁾ and/or
- for other supplies the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹⁾.

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For customers with a seat or registered office outside European Union, the following terms and conditions apply subordinate to T&C:

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- for consulting services the "Standard Terms and Conditions for Consulting Services of the Division DF for Customers with a Seat or Registered Office Outside of Germany"¹⁾ and/or
- for other services the "International Terms & Conditions for Services"¹⁾ supplemented by "Software Licensing Conditions"¹⁾ and/or
- for other supplies of hard- and software the "International Terms & Conditions for Products"¹⁾ supplemented by "Software Licensing Conditions"¹⁾

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To the extent our supplies and/or services offered are covered by an existing master or framework agreement, the terms and conditions of that agreement shall apply instead of T&C.

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The dimensions are in mm. In Germany, according to the German law on units in measuring technology, data in inches apply only to devices for export.

Illustrations are not binding.

Insofar as there are no remarks on the individual pages of this catalog – especially with regard to data, dimensions and weights given – these are subject to change without prior notice.

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¹⁾ The text of the Terms and Conditions of Siemens AG can be downloaded at https://mall.industry.siemens.com/legal/ww/en/terms_of_trade_en.pdf

3. Export Regulations

We shall not be obligated to fulfill any agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes and/or other sanctions.

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Link directory

Catalog LV 10

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Catalogs and further information



LV 10 Low-Voltage Power Distribution and Electrical Installation Technology SENTRON • SIVACON • ALPHA

Protection, Switching, Measuring and Monitoring Devices, Switchboards and Distribution Systems

PDF (E86060-K8280-A101-B5-7600)



ET D1 Switches and Socket Outlets DELTA

PDF



LV 18
Air Circuit Breakers and Molded Case
Circuit Breakers with UL Certification
SENTRON

PDF (E86060-K8280-E347-A9-7600)



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IC 10 Industrial Controls SIRIUS

PDF (E86060-K1010-A101-B3-7600)



SITRAIN
Digital Industry Academy
www.siemens.com/sitrain



Siemens TIA Selection Tool

for the selection, configuration and ordering of TIA products and devices

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Further information on low-voltage power distribution and electrical installation technology is available on the Internet at www.siemens.com/lowvoltage

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Published by Siemens AG

Smart Infrastructure Electrical Products Siemensstraße 10 93055 Regensburg, Germany

For the U.S. published by Siemens Industry Inc.

100 Technology Drive Alpharetta, GA 30005 United States

PDF (Catalog Extract E86060-K8280-A101-B5-7600) KG 0622 44 En Produced in Germany © Siemens 2022

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