

SIEMENS

SENTRON • SIVACON • ALPHA

Low-Voltage Power Distribution and Electrical Installation Technology

Transformers, Power Supply Units and
Socket Outlets

Catalog
Extract
LV 10

Edition
04/2021

[siemens.com/lowvoltage](https://www.siemens.com/lowvoltage)

Making sure power makes its way

Consistent, safe and intelligent low-voltage power distribution and electrical installation technology

Whether industries, infrastructures or buildings: Each environment depends on a reliable power supply.

Which is why products and systems featuring maximum safety and optimum efficiency are in demand. This comprehensive portfolio for low-voltage power distribution and electrical installation technology covers every requirement – from the switchboard to the socket outlet.

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Catalog LV 10 · 04/2021

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The products and systems listed in this catalog are developed and manufactured using a certified quality management system in accordance with DIN EN ISO 9001:2008.

Technical data

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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A



Simply well supplied

Whether you need socket outlets for installing in VDE, UL, CEI or CEE distribution boards or power supply units – our electrical installation technology offers you a complete program.

Short-circuit-proof transformers und power supply units with different voltage and power ratings fulfill every requirement for safety extra-low voltage systems.

Transformers, Power Supply Units and Socket Outlets



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A multitude of additional information ...

Information + ordering

All the important things at a glance

For information about transformers, power supply units and socket outlets, please visit our website
www.siemens.com/lowvoltage

Your product in detail

The relevant tender specifications can be found at
www.siemens.com/lowvoltage/tenderspecifications
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Everything you need for your order

Refer to the Industry Mall for an overview of your products

- Transformers, power supply units and socket outlets
sie.ag/2mmSHHu

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



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... 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/lowvoltage/cax

Manuals

Manuals are available for downloading in Siemens Industry Online Support (SIOS) at

www.siemens.com/lowvoltage/manuals

- Configuration manual – Transformers, power supply units and socket outlets **(45315886)**

Technical overview – Transformers, power supply units and socket outlets



The fast way to get you to our online services

This page provides you with comprehensive information and links on transformers, power supply units and socket outlets

www.siemens.com/lowvoltage/product-support **(109764946)**

System overview

Transformers



4AC32 bell transformers



4AC37 safety transformers

Power supply units



4AC2 electronic power supply units

Socket outlets



5TE6 socket outlet for modular installation devices

Accessories



Hinged lid

Note:

You will find a detailed range of accessories with the basic units.

4AC32 bell transformer

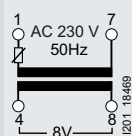
U_e 230 V AC



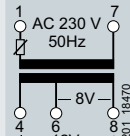
Mounting width

Bell transformers

2 MW



2 MW



Rated secondary current I_{sec} AC
at rated secondary voltage U_{sec} AC

| 4 V | 8 V | 12 V | 24 V |
|-------|-------|-------|-------|
| – | 1.0 A | – | – |
| – | – | 0.6 A | – |
| 2.0 A | 2.0 A | 1.5 A | – |
| – | 2.0 A | 1.3 A | 0.6 A |

Rated operational power P_s

| 8 VA | 8 VA |
|-----------|-----------|
| 4AC3208-0 | – |
| – | 4AC3208-1 |
| – | – |
| – | – |

Further technical specifications

4AC3208-0

4AC3208-1

4AC3214-0

4AC3218-0

Standards

Standards EN 61558-1, EN 61558-2-8

Supply

Rated operational voltage U_e 230 V AC

Operating range at 50 Hz $1.04 \times U_e$

Rated frequency 50 Hz

| Rated power dissipation P_v | In no-load operation | 1.2 W | 1.3 W | – |
|-------------------------------|----------------------------|-------|--------|-------|
| | At a rated voltage of 4 V | – | – | 5.5 W |
| | At a rated voltage of 8 V | 5.7 W | 10.5 W | 8.1 W |
| | At a rated voltage of 12 V | – | 3.8 W | 7.4 W |
| | At a rated voltage of 24 V | – | 4.2 W | – |

Safety

Safe separation Creepage distances and clearances >6 mm

Insulation class E

Test voltage (50 Hz, 1 s) Primary against secondary winding 4 kV

Connection

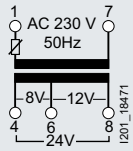
| Conductor cross-section | Rigid | 1 × 4 mm ² or 2 × 2.5 mm ² |
|-------------------------|---------------------------|--|
| | Flexible, with end sleeve | 1 × 2.5 mm ² or 2 × 1.5 mm ² |

Environmental conditions

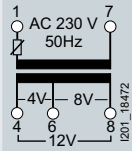
| Permissible ambient temperature | 40 °C | 35 °C | 40 °C |
|---------------------------------|-------------------------------|-------|-------|
| | – | – | – |
| Permissible humidity | 91% | | |
| Degree of protection | Acc. to EN 60629 | IP20 | |
| Safety class | Acc. to EN 61140 (VDE 0140-1) | II | |



2 MW



2 MW



14 VA

–
–
–
4AC3214-0

18 VA

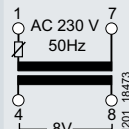
–
–
4AC3218-0
–

4AC37 safety transformer

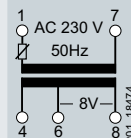
U_e 230 V AC



Mounting width 2 MW



3 MW



Rated secondary current I_{sec} AC
at rated secondary voltage U_{sec} AC

| 8 V | 12 V | 16 V | 24 V | 32 V |
|-------|-------|-------|-------|-------|
| 2.0 A | – | – | – | – |
| – | 2.0 A | – | – | – |
| – | 3.3 A | 2.5 A | 1.6 A | 1.2 A |
| – | – | – | 1.6 A | – |
| – | 5.2 A | – | 2.6 A | – |

Rated operational power P_s

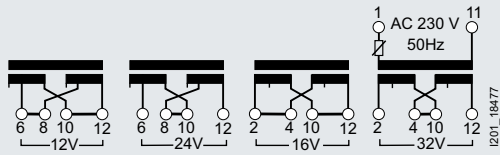
| 16 VA | 24 VA |
|-----------|-----------|
| 4AC3716-0 | – |
| – | 4AC3724-0 |
| – | – |
| – | – |
| – | – |

Further technical specifications

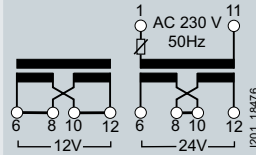
| Further technical specifications | | 4AC3716-0 | 4AC3724-0 | 4AC3740-0 | 4AC3740-1 | 4AC3763-0 |
|--|-----------------------------------|--|-----------|-----------|-----------|-----------|
| Standards | | | | | | |
| Standards | | EN 61558-1, EN 61558-2-6 | | | | |
| Supply | | | | | | |
| Rated operational voltage U _e | | 230 V AC | | | | |
| Operating range at 50 Hz | | 1.04 × U _e | | | | |
| Rated frequency | | 50 Hz | | | | |
| Rated power dissipation P _V | In no-load operation | 1.1 W | | 3.5 W | 3.9 W | |
| | At a rated voltage of 8 V | 6.8 W | 4.6 W | – | | |
| | At a rated voltage of 12 V | – | 7.6 W | 7.1 W | 7.5 W | 13.2 W |
| | At a rated voltage of 16 V | – | | | 7.7 W | – |
| | At a rated voltage of 24 V | – | | 7.7 W | 8.1 W | 13.5 W |
| | At a rated voltage of 32 V | – | | | 7.6 W | – |
| Safety | | | | | | |
| Safe separation | Creepage distances and clearances | >6 mm | | | | |
| Insulation class | | E | | F | | |
| Test voltage (50 Hz, 1 s) | Primary against secondary winding | 4 kV | | | | |
| Connection | | | | | | |
| Conductor cross-section | Rigid | 1× 4 mm ² or 2× 2.5 mm ² | | | | |
| | Flexible, with end sleeve | 1× 2.5 mm ² or 2× 1.5 mm ² | | | | |
| Environmental conditions | | | | | | |
| Permissible ambient temperature | | 25 °C | | | | |
| Permissible humidity | | 91% | | | | |
| Degree of protection | Acc. to EN 60629 | IP20 | | | | |
| Safety class | Acc. to EN 61140 (VDE 0140-1) | II | | | | |



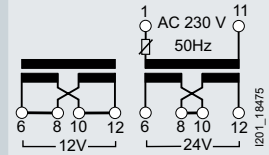
5 MW



5 MW



5 MW



40 VA

—
—
4AC3740-1
—
—

40 VA

—
—
—
4AC3740-0
—

63 VA

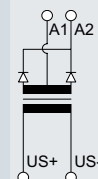
—
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4AC3763-0

4AC2 electronic power supply unit

SELV, short-circuit-proof



Mounting width 2 MW



| Rated operational voltage U_e | | Rated secondary voltage U_{sec} | Rated secondary current I_{sec} | Rated operational power P_s | |
|---------------------------------|--------------|-----------------------------------|-----------------------------------|-------------------------------|---------|
| AC | DC | DC | DC | | |
| 85 ... 265 V | 85 ... 300 V | 24 ±5% V | 0.35 A | 8.4 W | 4AC2402 |

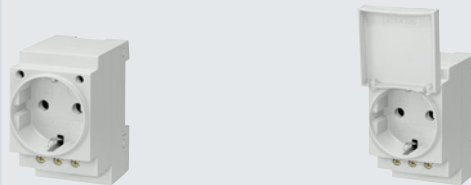
Further technical specifications

| | | |
|---|-----------------------------------|------------------------------------|
| Standards | | |
| Standards | | EN 60068-2, EN 61558-1, EN 61000-4 |
| Approvals | | – |
| Supply | | |
| Primary operating range | At 50/60 Hz | – |
| Rated frequency | | 50/60 Hz |
| Operating frequency range | | – |
| Rated power dissipation P_v | In no-load operation | – |
| | At rated load | – |
| Safety | | |
| Current limitation | | Electronic overload protection |
| Residual ripple | | <100 mV |
| Hum-free | Core molded | – |
| Safe separation, creepage distances and clearances | | >5.5 mm |
| Insulation class | | – |
| Test voltage (50 Hz, 1 min) | Primary against secondary winding | – |
| Insulation resistance | | 4 kV |
| Rated impulse withstand voltage / degree of pollution | Acc. to IEC 60664-1 | 6 kV/2 |
| Static discharge | Acc. to IEC/EN 61000-4-2 | 8 kV |
| RF irradiation | Acc. to IEC/EN 61000-4-3 | 10 V/m |
| Transient overvoltage (burst) | Acc. to IEC/EN 61000-4-4 | 4 kV |
| Transient overvoltage (surge) | Acc. to IEC/EN 61000-4-5 | |
| | Supply lines A1, A2 | 1 kV |
| | A1/A2 and ground | 2 kV |
| RF, conducted disturbance | Acc. to IEC/EN 61000-4-6 | 10 V |
| Interference suppression to lower limit class | Acc. to EN 61000-6-3 | Complied with |
| Connection | | |
| Terminals | Screw (slotted-head) | M2.5 |
| | ± screw (Pozidriv) | – |
| Conductor cross-section | Rigid | 0.5 ... 2.5 mm ² |
| | Flexible, with end sleeve, min. | 0.5 ... 1.5 mm ² |
| Environmental conditions | | |
| Permissible ambient temperature | | –20 ... +60 °C |
| Resistance to climate | Acc. to IEC/EN 60068-1 | 20/045/04 |
| Resistance to vibrations, frequency 10 ... 55 Hz | Acc. to IEC/EN 60068-2-6 | 0.35 mm amplitude |
| Degree of protection | Acc. to EN 60529 | IP20, with connected conductors |
| Safety class | Acc. to EN 61140 | II |

5TE6 socket outlet for modular installation devices

SCHUKO® socket outlet
DIN VDE 0620-1

Version



| Rated operational voltage U_e | Rated operational current I_e | Mounting width | | |
|---|---------------------------------|----------------|---------|---------|
| Without hinged lid ¹⁾ | | | | |
| 125 V AC | 15 A | 2.5 MW | – | – |
| 230 V AC | 16 A | 2.5 MW | 5TE6800 | – |
| With hinged lid ²⁾ | | | | |
| 230 V AC | 16 A | 2.5 MW | – | 5TE6801 |

Accessories

5TE6 hinged lids for socket outlets



| Mounting width | Article No. | Article No. |
|----------------|-------------|-------------|
| 2.5 MW | 5TE9120 | – |

¹⁾ The lids can be retrofitted on all devices.





²⁾ In distribution boards with 55 mm mounting depth, the socket outlet can only be used without the hinged lid.

³⁾ In system components where equipment is still live even after the main switch has been disconnected, this must be indicated according to EN 50110-1 (VDE 0105-1) and IEC/EN 60204-1/VDE 0113-1.

Yellow socket outlets are used for these applications.

Further technical specifications

| | | 5TE6800 5TE6801 5TE6810 | 5TE6802 | 5TE6803 | 5TE6804 |
|---------------------------------|---------------------------|---|-----------|------------------------|--|
| Standards | | | | | |
| Standards | | VDE 0620-1 | CEI 23-50 | CEE 7 standard sheet V | UL 498 |
| Approvals | | VDE 0620-1 | – | | UL File No. E258598/ CSA C22.2 No. 182.3M |
| Connection | | | | | |
| Terminals | ± screw (Pozidriv) | PZ1 | | | |
| Terminal tightening torque | Max. | 0.8 ... 1 Nm | | | |
| Stripped length | | 10 mm | | | |
| Conductor cross-section | Rigid | 1.5 ... 6 mm ² (AWG 10 ... 14) | | | |
| | Flexible, with end sleeve | 0.5 ... 4 mm ² (AWG 14) | | | |
| Environmental conditions | | | | | |
| Permissible ambient temperature | | –10 ... +55 °C | | | |
| Degree of protection | Acc. to EN 60529 | IP20, with connected conductors | | | |
| Mounting position | Without lid | Any | | | |
| | With lid | Horizontally or vertically | | | |

| | Socket outlets CEE 7 standard sheet V | Socket outlets CEI 23-50 | Socket outlets UL 498 |
|--|---|---|---|
| Yellow RAL 1018 ³⁾ | With grounding pin | | |
|  |  |  |  |
| – | – | – | 5TE6804 |
| 5TE6810 | 5TE6803 | – | – |
| – | – | 5TE6802 | – |
| Article No. | Article No. | Article No. | Article No. |
| – | 5TE9120 | – | 5TE9120 |



Appendix



Conditions of sale and delivery _____ A/2

Link directory _____ A/4

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.

1.1 For customers with a seat or registered office in European Union

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⁾.

In case such supplies should contain Open Source Software, the conditions of which shall prevail over the „General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry“¹⁾, a notice will be contained in the scope of delivery in which the applicable conditions for Open Source Software are specified. This shall apply mutatis mutandis for notices referring to other third party software components.

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- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
- 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⁾

1.3 For customers with master or framework agreement

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.

2. Additional Terms and Conditions

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.

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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Prior to any transfer of goods, works and services provided by us to a third party you shall in particular check and guarantee by appropriate measures that

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- such goods, works and services are not intended for use in connection with armaments, nuclear technology or weapons, if and to the extent such use is subject to prohibition or authorization, unless required authorization is provided;
- the regulations of all applicable Sanctioned Party Lists of the European Union and the United States of America concerning the trading with entities, persons and organizations listed therein are considered.

If required to enable authorities or us to conduct export control checks, you, upon request by us, shall promptly provide us with all information pertaining to the particular end customer, the particular destination and the particular intended use of goods, works and services provided by us, as well as any export control restrictions existing.

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The products listed in this catalog may be subject to European/ German and/or US export regulations. Any export requiring approval is therefore subject to authorization by the relevant authorities. Errors excepted and subject to change without prior notice.

Link directory

Catalog LV 10

General information

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| Information on low-voltage power distribution and electrical installation technology | www.siemens.com/lowvoltage |
| Tender specifications | www.siemens.com/lowvoltage/tenderspecifications |
| Conversion tool | www.siemens.com/conversion-tool |
| Image database | www.siemens.com/lowvoltage/picturedb |
| CAX download manager | www.siemens.com/lowvoltage/cax |
| Newsletter system | www.siemens.com/lowvoltage/newsletter |
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| Energy Suite | www.siemens.com/energysuite |
| SITOP power supplies | www.siemens.com/sitop |
| Power distribution with Totally Integrated Power | www.siemens.com/tip |

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-B3-7600)



LV 14 Power Monitoring Made Simple SENTRON

E86060-K1814-A101-A7-7600



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

PDF (E86060-K8280-E347-A6-7600)



ET D1 Switches and Socket Outlets DELTA

PDF



IC 10 Industrial Controls SIRIUS

PDF (E86060-K1010-A101-B2-7600)



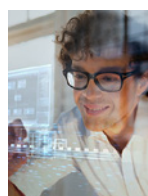
Industry Mall Information and Ordering Platform on the Internet:

www.siemens.com/industrymall



Siemens TIA Selection Tool for the selection, configuration and ordering of TIA products and devices

www.siemens.com/tst



SITRAIN Digital Industry Academy

www.siemens.com/sitrain

The catalogs listed above and additional catalogs are
available in PDF format at Siemens Industry Online Support
www.siemens.com/lowvoltage/catalogs

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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