



LV10 10/2018 EN

Transformatory, zasilacze, gniazdka



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-A8-7600) Print (E86060-K8280-A101-A6-7600)



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

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Switches and Socket Outlets

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



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Products for Automation and Drives CA 01 Interactive Catalog

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www.siemens.com/lowvoltage

Technical Support



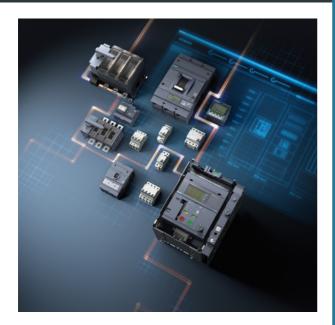
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Low-Voltage Power Distribution and Electrical Installation Technology

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

SENTRON · SIVACON · ALPHA



Catalog LV 10 · 10/2018

Supersedes:

Catalog LV 10 · 04/2018

Refer to the Industry Mall for current updates of this catalog:

www.siemens.com/industrymall

The products in this catalog can also be found in the Interactive Catalog CA 01.

Article No.: E86060-D4001-A510-D8-7500

Please contact your local Siemens branch.

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Protection, Switching, Measuring and Monitoring Devices

Switchboards and Distribution Systems

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

Opening information

Ordering notes

Overview

Ordering special versions

When ordering products that differ from the standard versions listed in the catalog, "-Z" must be added to the Article No. indicated and the required features must be specified using alphanumeric order codes or plain text.

Ordering very small quantities

When very small orders are placed, the costs associated with order processing are greater than the order value. We therefore recommend that you combine several small orders. Where this is not possible, we regret that we are obliged to make a small processing charge: for orders with a net goods value of less than € 250 we charge a € 20 supplement to cover our order processing and invoicing costs.

Explanations of Selection and ordering data

Standard delivery time (SD)

Preferred type

Preferred types are device types that can be delivered immediately ex works, i.e. they are dispatched within 24 hours.

Price units (PU)

The price unit defines the number of units, sets or meters to which the specified price applies.

Packaging size (PS)

The packaging size defines the number of units, sets or meters, for example, for outer packaging. Only the quantity defined by the packaging size or a multiple thereof can be ordered.

Price group (PG)

Each product is allocated to a price group

Example

5TT3400

SD: Preferred type

PG: 13C

Ordering quantity 1 unit or a multiple thereof

8US1923-5CA02

PG: 140

Ordering quantity 10 units or a multiple thereof

8WH9000-1GA00

PG: 12X

Ordering quantity 50 units or a multiple thereof

SD Article No. Price PU PS* PG per PU (UNIT, SÈT, M) 5TT3400 1 unit 1BK 8US1923-5CA02 10 units 1CU 8WH9000-1GA00 100 50 units 1BT

Note:

The article numbers shown here and the specifications regarding selection and ordering data are examples only. When ordering, always use the selection and ordering data in the product chapters.

Metal surcharges/export markings

To compensate fluctuating prices of raw materials (for example silver, copper, aluminum, lead, gold, dysprosium and neodymium), surcharges are calculated on a daily basis for products containing these raw materials using the metal factor. A surcharge for the particular raw material is added to the price of a product if the basic quotations for

this raw material are exceeded

Each product's metal factor dictates for which raw materials the metal surcharges are calculated, from which quotation and with which calculation method (weight or percentage method).

An exact explanation of the metal factor can be found at: www.siemens.com/automation/salesmaterial-as/catalog/enterms_of_trade_en.pdf

A product's export markings/metal surcharges are updated daily at ${\it www.siemens.com/industrymall.}$



10/2	Introduction
10/3	4AC3 bell transformers
10/4	4AC3 safety transformers
10/5	4AC2 power supply units
10/6	5TE6 REG socket outlets

For further technical product information:

Configuration Manual

Transformers, Power Supply Units and Socket Outlets

Article No.: 3ZW1012-4AC32-0AC1

Siemens Industry Online Support: www.siemens.com/lowvoltage/product-

support

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Technical data

Siemens LV 10 · 11/2018

Introduction

Overview

Devices		Page	Application	Standards	Used	d in	
					Non-residential buildings	Residential buildings	Industry
NOMES OF THE PARTY	4AC3 bell transformers	10/3	Power supply up to 18 VA as safety extra-low voltage (SELV) in residential buildings for the supply of gongs, buzzers, bells, door openers and remote control switches	EN 61558-1 EN 61558-2-8	1	✓	
C B C C C C C C C C C C C C C C C C C C	4AC3 safety transformers	10/4	Power supply up to 63 VA as safety extra-low voltage (SELV) for the supply of control circuits, switching relays and Insta contactors	EN 61558-1 EN 61558-2-6	1		✓
TES or an	4AC2 power supply units	10/5	Direct voltage power supply up to 24 V DC and 2 A as safety extra-low voltage (SELV) for the supply of gongs, buzzers, bells, door openers, switching relays and Insta contactors	EN 61558-2-6	1	✓	✓
000	5TE6 REG socket outlets	10/6	For power supply during maintenance in distribution boards in DIN VDE, CEE 7, CEI 23-50 and UL 498 versions	DIN VDE 0620-1, CEE 7 standard sheet V, CEI 23-50, UL 498	✓	<i>J</i>	✓

4AC3 bell transformers

Overview

A typical application for these bell transformers is short-time use, as occurs with bells, gongs, door openers or remote control switches in residential buildings.

Siemens bell transformers are protected against short-circuit or moderate overload by a PTC resistor. After a short-circuit, the

primary current must be briefly disconnected from the mains before restarting.

Higher output voltages will occur in the event of low-load or no-load operation.

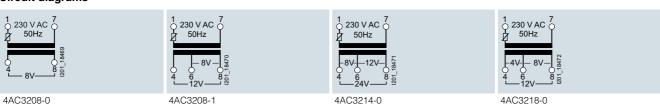
Technical specifications

			4AC3208-0	4AC3208-1	4AC3214-0	4AC3218-0
Standards			EN 61558-1, E	N 61558-2-8		
Rated operational power P _S		VA	8	8	14	18
Rated operational voltage U _e		VAC	230			
Operating range at 50 Hz		× U _e	1.04			
Rated frequency		Hz	50			
Rated secondary voltage <i>U</i> _{sec}		V AC V AC V AC V AC	8	 8 12	 8 12 24	4 8 12
Rated secondary current I _{sec} • At 4 V • At 8 V • At 12 V • At 24 V		A AC A AC A AC A AC	1.0	1.0 0.6	 2.0 1.3 0.6	2.0 2.0 1.5
Rated power dissipation P _v • In no-load operation • At a rated voltage of 4 V • At a rated voltage of 8 V • At a rated voltage of 12 V • At a rated voltage of 24 V		W W W W	1.2 5.7 	1.2 5.7 3.8	1.3 10.5 7.4 4.2	1.3 5.5 8.1 8.4
Safe separation • Creepage distances and clearance	ces	mm	> 6			
Insulation class			E			
Test voltage, 50 Hz, 1 second ◆ Primary against secondary windin	g	kV	4			
Conductor cross-sections Rigid Flexible, with end sleeve		mm ² mm ²	1 x 4 or 2 x 2.5 1 x 2.5 or 2 x 1			
Permissible ambient temperature	·	°C	40	35	40	40
Permissible humidity		%	91			
Degree of protection	Acc. to EN 60629		IP20			
Safety class	Acc. to EN 61140 (VDE 0140-1)		II			

Selection and ordering data

	U _e	$U_{ m sec}$	I_{SeC}	Ps	Mounting width	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS/ P. unit	PG
	VAC	V AC	A AC	VA	MW	d					
- 3	Bell tran	sformers									
Montana Company Compan	230	8 8/12 8/12/24 4/8/12	1.0 1.0/0.6 2.0/1.3/0.6 2.0/2.0/1.5	8 8 14 18	2 2 2 2		4AC3208-0 4AC3208-1 4AC3214-0 4AC3218-0		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1BK 1BK 1BK 1BK

Circuit diagrams



4AC3 safety transformers

Overview

These transformers up to 63 VA provide a safety extra-low voltage for supplying control circuits, switching relays or Insta contactors in continuous operation as alternating voltage power supply for 8 V, 12 V, 16 V, 24 V and 32 V AC.

Higher output voltages will occur in the event of low-load or no-load operation. Siemens safety transformers are protected against short-circuit or moderate overload by a PTC resistor. After a short-circuit, the primary current must be briefly disconnected from the mains before restarting.

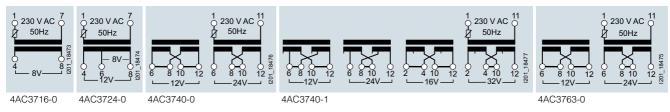
Technical specifications

			4AC3716-0	4AC3724-0	4AC3740-0	4AC3740-1	4AC3763-0
Standards			EN 61558-1, E	N 61558-2-6			
Rated operational power P _S		VA	16	24	40	40	63
Rated operational voltage U	9	V AC	230				
Operating range at 50 Hz		× U _e	1.04				
Rated frequency		Hz	50				
Rated secondary voltage $U_{ m se}$	ес	V AC V AC V AC V AC V AC V AC	8 	8 12 	 12 24	 12 16 24 32	 2 × 12 24
Rated secondary current <i>I</i> _{set} • At 8 V • At 12 V • At 16 V • At 24 V • At 32 V	С	A AC A AC A AC A AC A AC	 	2.0 2.0 	3.3 1.6	3.3 2.5 1.6 1.2	 5.2 2.6
Rated power dissipation P _V • In no-load operation • At a rated voltage of 8 V • At a rated voltage of 12 V • At a rated voltage of 16 V • At a rated voltage of 24 V • At a rated voltage of 32 V		W W W W	1.1 6.8 	1.1 4.6 7.6 	3.5 7.1 7.7	3.9 7.5 7.7 8.1 7.6	3.9 13.2 13.5
Safe separation • Creepage distances and cle	earances	mm	> 6				
Insulation class			Е		F		
Test voltage, 50 Hz, 1 second • Primary against secondary v		kV	4				
Conductor cross-sections • Rigid • Flexible, with end sleeve		mm ² mm ²	1 x 4 or 2 x 2.5 1 x 2.5 or 2 x 1				
Permissible ambient tempera	ature	°C	25				
Permissible humidity		%	91				
Degree of protection	Acc. to EN 60529		IP20				
Safety class	Acc. to EN 61140 (VDE 0140-1)		II				

Selection and ordering data

	U _e	U _{sec}	I_{SeC}	P_{s}	Mounting width	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS/ P. unit	PG
	VAC	VAC	A AC	VA	MW	d					
•	Safety tra	nsformers									
1 P	230	8 8/12 12/16/24/32 12/24 2 x 12/24	2.0 2.0/2.0 3.3/2.5/1.6/1.2 3.3/1.6 5.2/2.6	16 24 40 40 63	2 3 5 5 5		4AC3716-0 4AC3724-0 4AC3740-1 4AC3740-0 4AC3763-0		1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	1BK 1BK 1BK 1BK 1BK

Circuit diagrams



4AC2 power supply units

Overview

The electronic power supply unit provides a 24 V DC supply to systems with an operational voltage of 85 to 265 V AC or 85 to 300 V DC. The device operates in the lower class for minimum power supply with a safety extra-low voltage (SELV).

The electronic power supply unit is suitable for supplying the 5TT71 GSM alarm modules within a supply voltage range of 150 to 230 V AC.

Technical specifications

			4AC2402
Standards			EN 60068-2, EN 61558-1, EN 61000-4
Approvals			
Rated operational power P _S		W	8.4
Rated operational voltage U _e		V AC V DC	85 265 85 300
Permissible operational voltage For the 5TT71 GSM alarm modules		V AC/DC	150 265
Primary operating range	At 50/60 Hz	\times $U_{\rm e}$	
Rated frequency		Hz	50/60
Operating frequency range		Hz	
Rated secondary voltage $U_{\rm sec}$		V DC	24 ± 5 %
Rated secondary current I _{sec}		A DC	0.35
Current limitation			Electronic overload protection
Residual ripple		mV	< 100
Rated power dissipation $P_{\rm V}$	In no-load operation At rated load	W W	-
Hum-free	Core molded		
Safe separation	Creepage distances and clearances	mm	> 5.5
Insulation class			
Test voltage Primary against secondary winding	50 Hz, 1 min	kV	
Insulation resistance		kV	4
Rated impulse withstand voltage/ degree of pollution	Acc. to IEC 60664-1		6 kV/2
Static discharge	Acc. to IEC/EN 61000-4-2	kV	8
RF irradiation	Acc. to IEC/EN 61000-4-3	V/m	10
Transient overvoltage (burst)	Acc. to IEC/EN 61000-4-4	kV	4
Transient overvoltage (surge) • Supply lines A1, A2 • A1/A2 and ground	Acc. to IEC/EN 61000-4-5	kV kV	1 2
RF, conducted disturbance	Acc. to IEC/EN 61000-4-6	V	10
Interference suppression to lower limit class	•		Complied with
Terminals • Screw (slotted-head) • ± screw (Pozidriv)			M2.5
Conductor cross-sections Rigid Flexible, with end sleeve, min.		mm ² mm ²	0.5 2.5 0.5 1.5
Permissible ambient temperature		°C	-20 +60
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	mm	0.35 amplitude
Degree of protection	Acc. to EN 60529		IP20, with connected conductors
Safety class	Acc. to EN 61140		II

Selection and ordering data

	U _e		U _{sec}	I_{SeC}	Ps	Mounting width	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS/ P. unit	PG
	V AC	V DC	V DC	A DC	W	MW	d					
cce		oower supply circuit resistan										
	85 265	85 300	24 ± 5 %	0.35	8.4	2		4AC2402		1	1 unit	1BK

5TE6 REG socket outlets

Overview

The socket outlets for mounting in distribution boards to DIN 43880 and on standard mounting rails to DIN 60715 have since become standard in modern switchgear assemblies/distribution boards. The socket outlet range complies with a number of different standards and is available according to the standards of the following countries: VDE for Germany, CEE7 for Belgium/France, CEI for Italy and UL for USA.

In distribution boards with 55 mm mounting depth, the socket outlet can only be used without the hinged lid. The lids can be retrofitted on all devices. 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.

Technical specifications

		5TE6800	5TE6801	5TE6810	5TE6802	5TE6803	5TE6804
Standards		VDE 0620-1	VDE 0620-1	VDE 0620-1	CEI 23-50	CEE 7 stan- dard sheet V	UL 498
Approvals		VDE 0620-1					UL File No. E258598/ CSA C22.2 No. 182.3M
Rated operational voltage U _e	V AC	230					125
Rated operational current I _e	A AC	16					15
Terminals ± screw (Pozidriv)		PZ1					
Terminal tightening torque, max.	Ν	1.2					
Stripped length	mm	10					
Conductor cross-sections Rigid Flexible, with end sleeve Rigid Flexible	mm ² mm ² AWG AWG	1.5 6 0.5 4 10 14					
Permissible ambient temperature	°C	-10 +55					
Degree of protection Acc. to EN 60529		IP20, with conr	nected conducto	ırs			
Mounting position		Without cover:	any, with cover:	vertical or horizo	ontal		

Selection and ordering data

		U _e	I_{e}	Conductor cross-section	Mounting width	SD	Article No. www.siemens.com/ product?Article No.	Price per PU		PS/ P. unit	PG
		V AC	Α	mm^2	MW	d					
	SCHUKO [®] sock	et outlets a	ccording to	DIN VDE 0620)-1						,
	Without hinged	lid 230	16	6	2.5	•	5TE6800		1	1 unit	1BK
888											
(5)24 (22)	SCHUKO [®] sock	et outlets a	ccording to	DIN VDE 0620)-1						
000	With hinged lid	230	16	6	2.5	•	5TE6801		1	1 unit	1BK

5TE6 REG socket outlets

		<i>U</i> e	$I_{ m e}$	Conductor cross-section	Mounting width	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS/ P. unit	PG
		V AC	Α	mm ²	MW	d			101)		
	SCHUKO [®] sock			ng to DIN VDE 06							
	Without hinged										
		230	16	6	2.5	•	5TE6810		1	1 unit	1BK
	Socket outlets a		to CEI 23	3-50							
	 With hinged lid 				0.5						101
		230	to CEE 7	6 standard sheet	2.5 V	•	5TE6802		1	1/48 units	1BK
	Without hinged				2.5	•	5TE6803		1	1/48 units	1BK
	UL 498 socket o	utlets									
SIEMEIS	Without hinged		15	6	2.5	•	5TE6804		1	1 unit	1BK
The state of the s											
Dies 120	Hinged lids for !	5TE6 soci	ket outlet	s	2.5		5TE9120		1	1 unit	1BK

Notes

Conditions of sale and delivery

1. General standards

By using this catalog you can acquire hardware and software products described therein from Siemens AG subject to these conditions of sale and delivery (hereinafter: CSD). Please note: the scope, the quality and the conditions for supplies and services, including software products, by any Siemens group or Regional Company having a registered office outside of Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. These CSD apply exclusively for orders placed with Siemens AG, Germany.

1.1 For customers with a seat or registered office in Germany

For customers with a seat or registered office in Germany, the following shall be subordinate to these CSD

- for installation, the "Standard Terms and Conditions for Installation –Germany" and
- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services – for Customers in Germany" 1) and
- for standalone software products and software products that are part of another product or project, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or Registered Office in Germany"
 ¹¹)
 and
- for other supplies and services, the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹⁾.

In the event that such other supplies and services include open-source software, the conditions of which override the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry" 1, the product will be supplied with a notice detailing the special conditions that apply for the relevant open-source software. This applies accordingly in the case of a reference to other third-party software components.

1.2 For customers with a seat or registered office outside of Germany

For customers with a seat or registered office outside of Germany, the following shall be subordinate to these CSD

- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services"¹⁾ (only available in English) and
- for services, the "International Terms & Conditions for Services"¹⁾ supplemented by the "Software Licensing Conditions"¹⁾ and
- for the supply of other hardware and software the "International Terms & Conditions for Products"¹⁾ supplemented by the "Software Licensing Conditions"¹⁾.

1.3 For customers with framework agreements

To the extent that our products and services are covered by an existing framework agreement, the conditions there apply instead of this CSD.

2. Prices

The prices are in € (euros) ex works, excluding packaging.

The sales tax (value added tax) is not included in the prices. It shall be debited separately at the respective rate according to the applicable legal regulations.

Prices are subject to change without prior notice. We will debit the prices valid at the time of delivery.

To compensate fluctuating prices of raw materials (for example silver, copper, aluminum, lead, gold, dysprosium and neodymium), surcharges are calculated on a daily basis for products containing these raw materials using the metal factor. A surcharge for the particular raw material is added to the price of a product if the basic quotations for this raw material are exceeded.

Each product's metal factor dictates for which raw materials the metal surcharges are calculated, from which quotation and with which calculation method (weight or percentage method).

An exact explanation of the metal factor can be found at: www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

The surcharge will be calculated (except in the case of dysprosium and neodymium) on the basis of the official price on the day prior to receipt of the order or prior to the release order for calculation of the surcharge.

In the event of placement of an order, the relevant three-month average price from the quarter prior to order receipt or the release order shall be used with a one-month buffer to calculate the dysprosium and neodymium surcharge ("rare earths") (you will find details in the aforementioned explanation of the metal factor).

3. Additional terms and conditions

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

Illustrations are not binding.

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

You can download the text of the Siemens AG terms and conditions of trade at www.siemens.com/automation/salesmaterial-

www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

Appendix

Conditions of sale and delivery

4. Export regulations

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

Exporting may be subject to authorization. In delivery information, we label authorization obligations according to German, European and US export lists.

Our products are controlled by the U.S. authorities (goods labeled with "ECCN" not equal to "N") and may only be supplied to the stated country of the end user for sole use by the end user. Without U.S. government approval or other approval under U.S. law, the products may not be sold, transferred or otherwise forwarded to other countries or to other persons other than the specified end user, either in their original form or after further processing into other goods. Goods labeled with an "AL" not equal to "N" are subject European/national export authorization requirements.

Please note that you can also preview the export designations in the respective product description via our "Industry Mall" online catalog system. The deciding factors, however, are the AL or ECCN export designations indicated on order confirmations, delivery notes and invoices.

Unmarked items or items marked "AL:N" / "ECCN:N" or "AL:9X9999" / "ECCN: 9X9999" may require authorization based on their intended use or ultimate destination.

If you transfer goods (hardware and/or software and/or technology as well as corresponding documentation, regardless of the mode of provision) delivered by us or works and services (including all kinds of technical support) performed by us to a third party worldwide, you shall comply with all applicable national and international (re-) export control regulations.

If required to conduct export control checks, you, at our request, shall promptly provide us with all information pertaining to particular end customers, destination and intended use of goods, works and services provided by us, as well as any relevant export control restrictions.

The products listed in this catalog may be subject to European/German and/or US export regulations. Therefore, any export requiring a license is subject to approval by the competent authorities.

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Digital Factory, Process Industries and Drives and Energy Management

Further information can be obtained from our branch offices listed at www.siemens.com/lowvoltage/contact

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•	FT 04	Digital: SIPART Controllers and Software	MP 31
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-	D 44	Digital: Process Analytics, Components for	AP 11
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