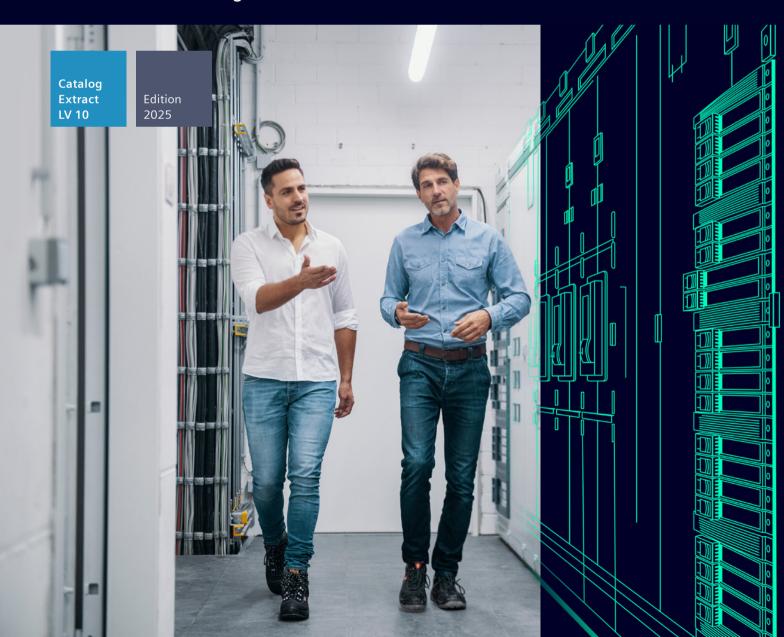
SIEMENS

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Low-Voltage Power Distribution and Electrical Installation Technology

Transformers, Power Supply Units and Socket Outlets

siemens.com/lowvoltage

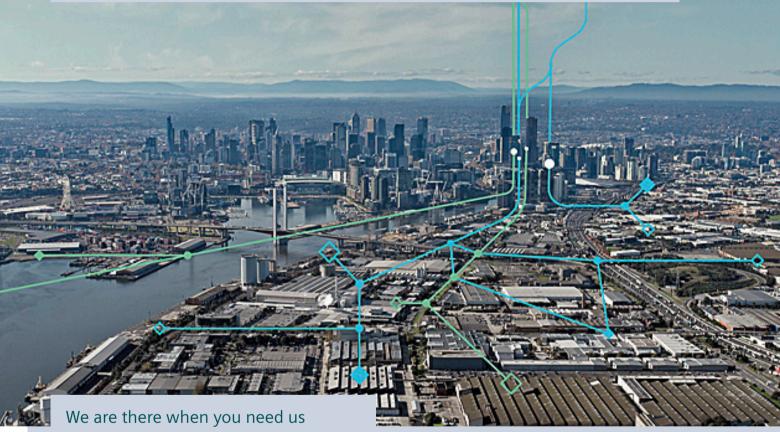


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The products and systems described in this catalog are manufactured/ distributed under application of a certified quality management system in accordance with EN ISO 9001 (for the Certified Registration Nos., see www.siemens.com/system-certificates/ep).

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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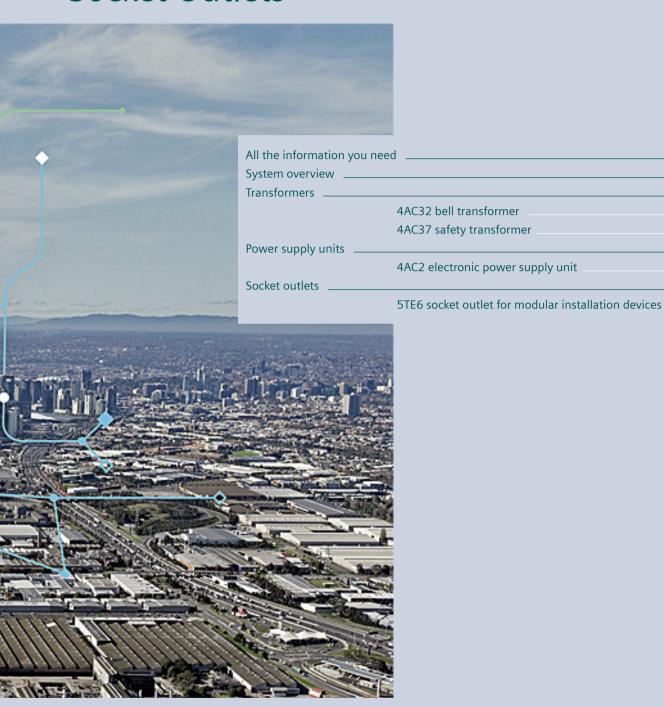
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Transformers, Power Supply Units and Socket Outlets



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/switching-devices



Your product in detail

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

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 Transformers, power supply units and socket outlets sie.aq/2PxFgh

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



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Commissioning + operation



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- Operating instructions
- Certificates

Online Support app available for download from the App Store and Play Store You will find further information at www.siemens.com/support-app

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

- SiePortal (product catalog) www.siemens.com/lowvoltage/product-catalog
- 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



Manuals can be found in SiePortal 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 (109778781)

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

Note:

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

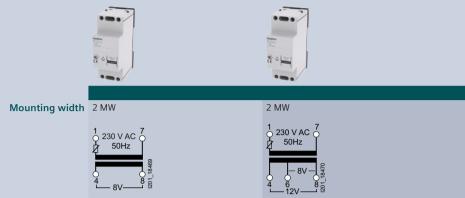
Accessories



Hinged lid

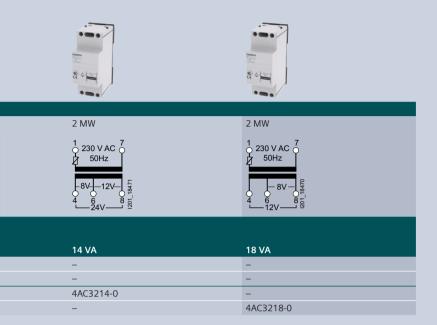
4AC32 bell transformer

U_e 230 V AC



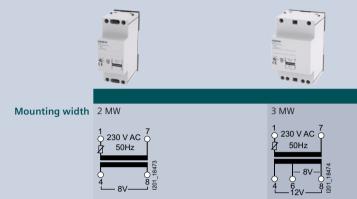
Rated secondary current I_{sec} AC at rated secondary voltage U_{sec} AC			Rated operational pow	Rated operational power $P_{\rm s}$		
8 V	12 V	24 V	8 VA	8 VA		
1.0 A	-	-	4AC3208-0	-		
	0.6 A	-	-	4AC3208-1		
2.0 A	1.3 A	0.6 A	-	-		
	1.5 A	-	-	-		

Further technical specif	4AC3208-0	4AC3208-1	4AC3214-0	4AC3218-0	
Standards					
Standards	EN 61558-1, EN 61	1558-2-8			
Supply					
Rated operational voltage $U_{\rm e}$		230 V AC			
Primary operating range at 50 Hz		1.04 × <i>U</i> _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 8 V	5.7 W		10.5 W	8.1 W
	At a rated voltage of 12 V	-	3.8 W	7.4 W	8.4 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	$1 \times 4 \text{ mm}^2 \text{ or } 2 \times 2$.5 mm ²		
	Flexible, with end sleeve	1 × 2.5 mm ² or 2 ×	: 1.5 mm ²		
Ambient conditions					
Permissible ambient temperature		40 °C	35 °C	40 °C	
Permissible humidity		91%			
Degree of protection	Acc. to EN 60629	IP20			
Protection class	Acc. to EN 61140 (VDE 0140-1)	II			



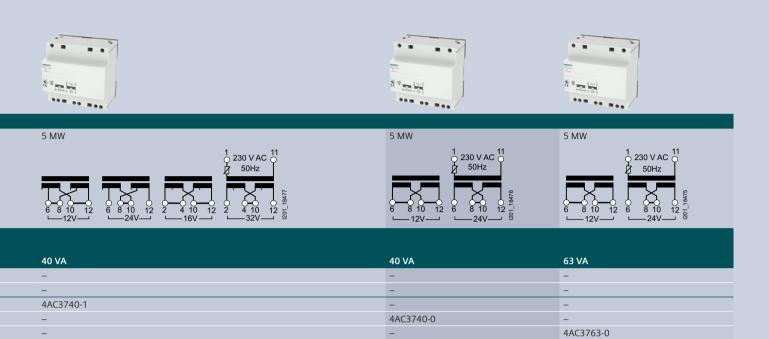
4AC37 safety transformer

U_e 230 V AC



Rated secondary current $I_{\rm sec}$ AC at rated secondary voltage $U_{\rm sec}$ AC					Rated operational pov	Rated operational power P _s		
8 V	12 V	16 V	24 V	32 V	16 VA	24 VA		
2.0 A	-	-	-	-	4AC3716-0	-		
	2.0 A	-	-	-	-	4AC3724-0		
_	3.3 A	2.5 A	1.6 A	1.2 A	-	-		
		-	1.6 A	_	-	-		
	5.2 A	-	2.6 A	-	-	-		

Further technical speci	4AC3716-0	4AC3724-0	4AC3740-0	4AC3740-1	4AC3763-0	
Standards						
Standards		EN 61558-1, E	N 61558-2-6			
Supply						
Rated operational voltage $U_{\rm e}$	230 V AC					
Primary operating range at 50 Hz						
Rated frequency						
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	$1 \times 4 \text{ mm}^2 \text{ or } 1$	2 × 2.5 mm ²			
	Flexible, with end sleeve	1 × 2.5 mm ² c	or 2 × 1.5 mm ²			
Ambient conditions						
Permissible ambient temperature		25 ℃				
Permissible humidity		91%				
Degree of protection	Acc. to EN 60629	IP20				
Protection class	Acc. to EN 61140 (VDE 0140-1)	II				



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4AC2 electronic power supply unit

SELV, short-circuit-proof



					-
Rated operation	nal 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

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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 clearanc	es	> 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
Ambient 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
Protection class	Acc. to EN 61140	II

5TE6 socket outlet for modular installation devices

SCHUKO® socket outlet DIN VDE 0620-1

Version





Rated operational voltage $U_{\rm e}$	Rated operational current $I_{\rm e}$	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		
(518) 120 (Mounting width	Article No.	Article No.
(2129 120)	2.5 MW	5TE9120	_
0			
1 2			

1) The hinged lid can be retrofitted on all versions.

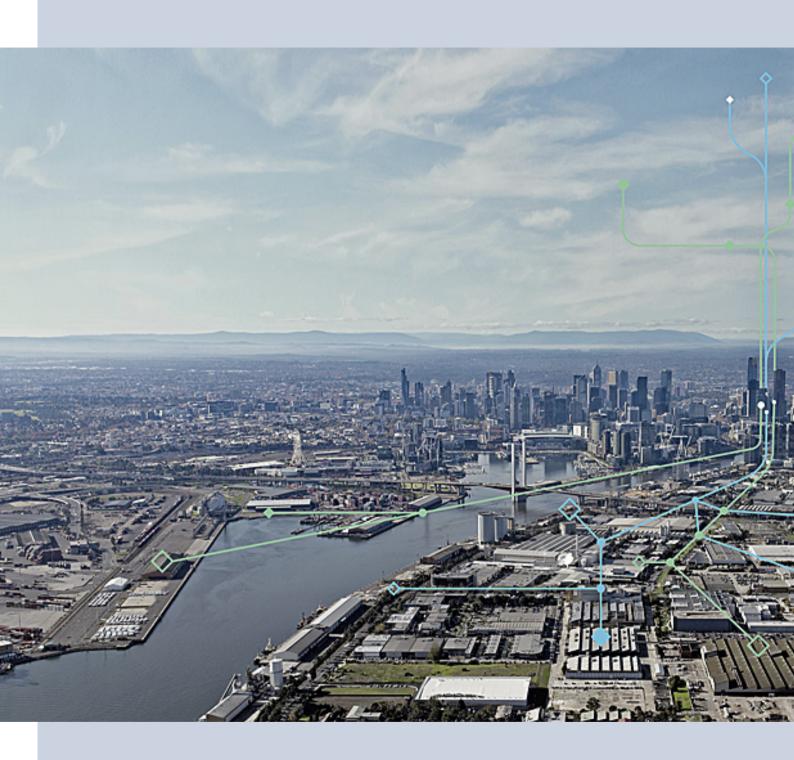
In distribution boards with 55 mm mounting depth, the socket outlet can only be used without the hinged lid.
 In system components where equipment is still live even after the main switch has been disconnected, this must be indicated according to EN 50110-1 (VDE 0105-1) and IEC/EN 60204-1/VDE 0113-1. 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)		
Ambient conditions					
Permissible ambient temperatur	e	−10 +55 °C			
Degree of protection	Acc. to EN 60529	IP20, with connected conductors			
Mounting position	Without hinged lid	Any			
	With hinged lid	Horizontally or verti	cally		

	Socket outlets	Socket outlets	Socket outlets
	CEE 7 standard sheet V	CEI 23-50	UL 498
Yellow RAL 1018 ³⁾	With grounding pin		
5 to 10			
-	-	_	5TE6804
5TE6810	5TE6803	-	-
-	-	5TE6802	-

Article No.	Article No.	Article No.	Article No.
-	5TE9120	-	5TE9120

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Α

Conditions of sale and delivery

1. General Provisions

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 ¹¹ and/or
- for consulting services the "Allgemeine Geschäftsbedingungen für Beratungsleistungen für Infrastructure & Industry Geschäft (Deutsches Recht)"¹⁾ (available only in German) and/or
- for other services, the "Supplementary Terms and Conditions for Services for Infrastructure & Industry Business (German Law) ("BL")"
 ¹) and/or
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 ¹¹ and/or
- for other services the "International Terms & Conditions for Services"
 ⁽¹⁾ supplemented by "Software Licensing Conditions"
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- for other products the "International Terms & Conditions for Products"¹⁾ supplemented by "Software Licensing Conditions"¹⁾

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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.

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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

Α

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4. Miscellaneous

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Catalogs and further information



LV 10 Low-Voltage Power Distribution and **Electrical Installation Technology** SENTRON • SIVACON • ALPHA PDF (E86060-K8280-A101-B9-7600)



Switches and Socket Outlets DELTA PDF (SIEP-C10409-00-7600)



3WA Air Circuit Breakers SENTRON PDF (E86060-K8280-B101-A4-7600)



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

PDF (E86060-K8280-E347-B2-7600)



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

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The catalogs listed above and additional catalogs are available in PDF format at

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IC 10

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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In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept.

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