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

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Transformers, Power Supply Units and Socket Outlets

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Edition 10/2022

Catalog Extract

LV 10

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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.

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Low-Voltage Power Distribution and Electrical Installation Technology

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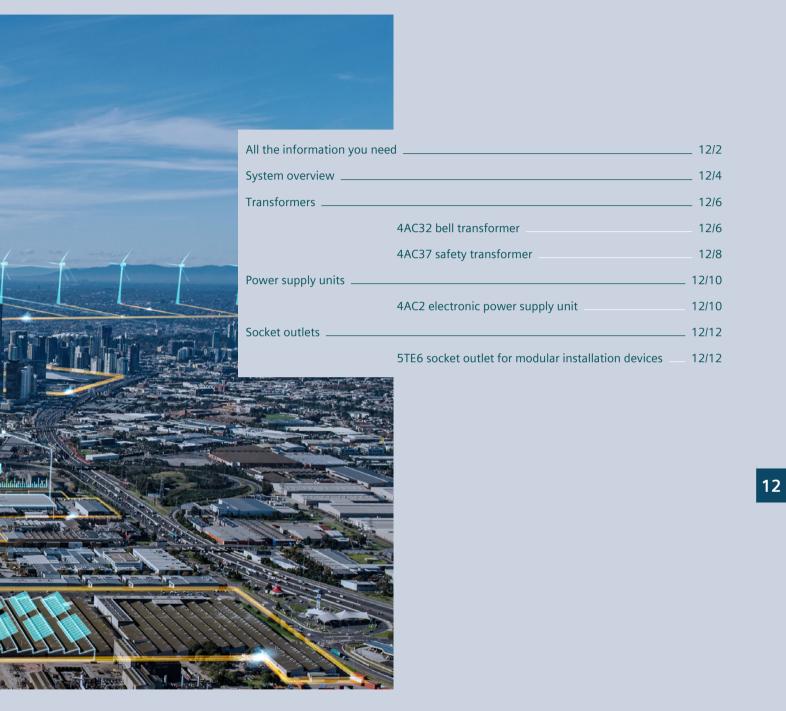
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Simply well supplied

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 and 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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- www.siemens.com/lowvoltage/picturedb

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🗐 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

rs 4AC37 safety transformers

Power supply units



4AC2 electronic power supply units

Socket outlets

Accessories



Hinged lid

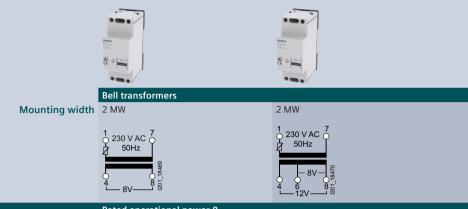
5TE6 socket outlet for modular installation devices

Note:

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

4AC32 bell transformer

*U*_e 230 V AC



	dary current I _{sec} AC ndary voltage U _{sec} I			Rated operational pow	er P _s	
4 V	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	-	-	
2.0 A	2.0 A	1.5 A	-	-	-	

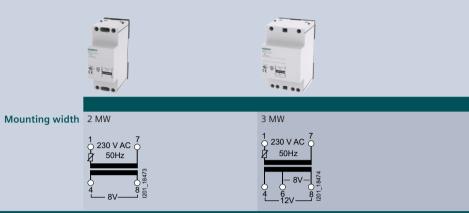
Further technical specif	4AC3208-0	4AC3208-1	4AC3214-0	4AC3218-0	
Standards					
Standards		EN 61558-1, EN 6	1558-2-8		
Supply					
Rated operational voltage $U_{\rm e}$	230 V AC				
Primary operating range at 50 Hz		$1.04 \times U_{\rm e}$			
Rated frequency	50 Hz				
Rated power dissipation P_V	In 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	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	4 kV		
Connection					
Conductor cross-section	Rigid	1× 4 mm ² or 2× 2.	5 mm²		
	Flexible, with end sleeve	$1 \times 2.5 \text{ mm}^2 \text{ or } 2 \times$	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			

The second se	
2 MW	2 MW
1 230 V AC 7 2 50Hz - 8V12V 4 6 8 181 - 24V	1 230 V AC 7 2 50Hz -4V-8V- 4 6 8 -12V-81 -12V-81 -12V-81 -12V-12V-12V-12V-12V-12V-12V-12V-12V-12V
14 VA	18 VA
_	-
-	-
4AC3214-0	-

4AC3218-0

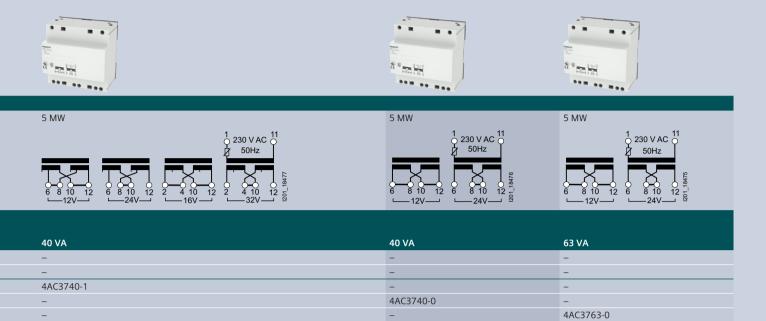
4AC37 safety transformer

$U_{\rm e}$ 230 V AC



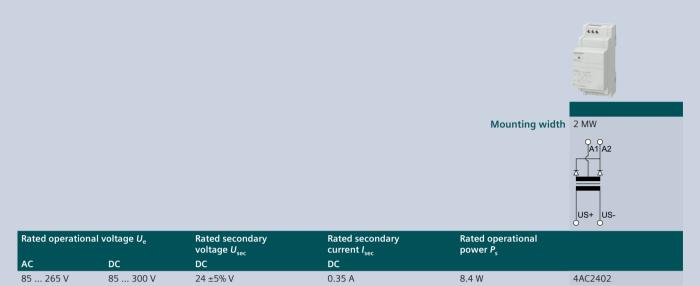
	ondary current <i>l</i> econdary voltag				Rated operational pow	er P _s
8 V	12 V	16 V	24 V	32 V	16 VA	24 VA
2.0 A	-	-	-	-	4AC3716-0	-
	2.0 A	-	-	-	-	4AC3724-0
-	3.3 A	2.5 A	1.6 A	1.2 A	-	-
		-	1.6 A	-	-	-
	5.2 A	-	2.6 A	-	-	-

Further technical specifications		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	$1.04 \times U_{\rm e}$					
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				
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)	I				



4AC2 electronic power supply unit

SELV, short-circuit-proof



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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 clearance	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	П

5TE6 socket outlet for modular installation devices





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

(3125 120 M	Mounting width	Article No.	Article No.
(9169 120)	2.5 MW	5TE9120	-
0			
de la			

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

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.

12

		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 1	10 14)		
	Flexible, with end sleeve	0.5 4 mm ² (AWG 1	14)		
Ambient conditions					
Permissible ambient temperature		−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 vertic	cally		

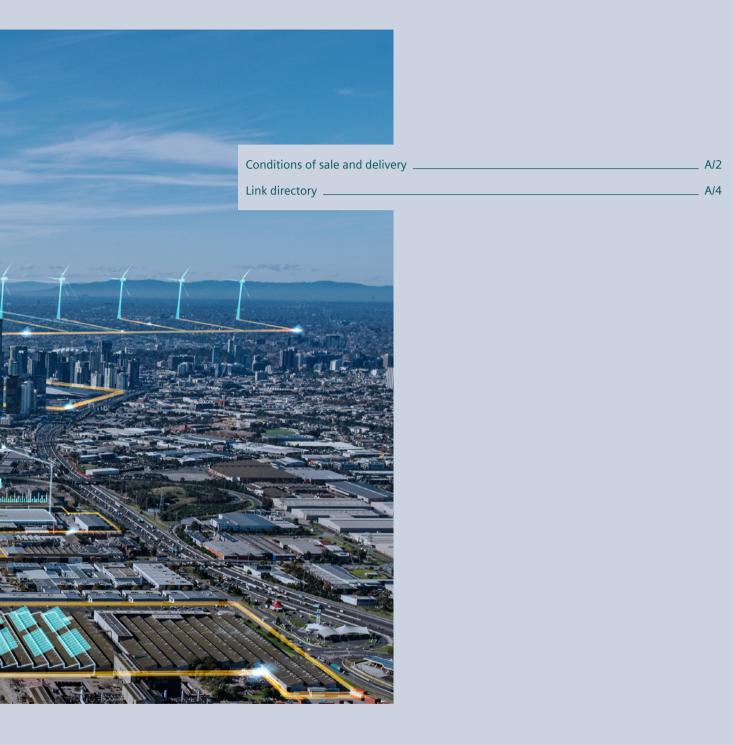
	Socket outlets	Socket outlets	Socket outlets	
	CEE 7 standard sheet V	CEI 23-50	UL 498	
Yellow RAL 1018 ³⁾	With grounding pin			
-	-	-	5TE6804	
5TE6810	5TE6803	-	-	
-	-	5TE6802	-	

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





Appendix



Α

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1. General Provisions

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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

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