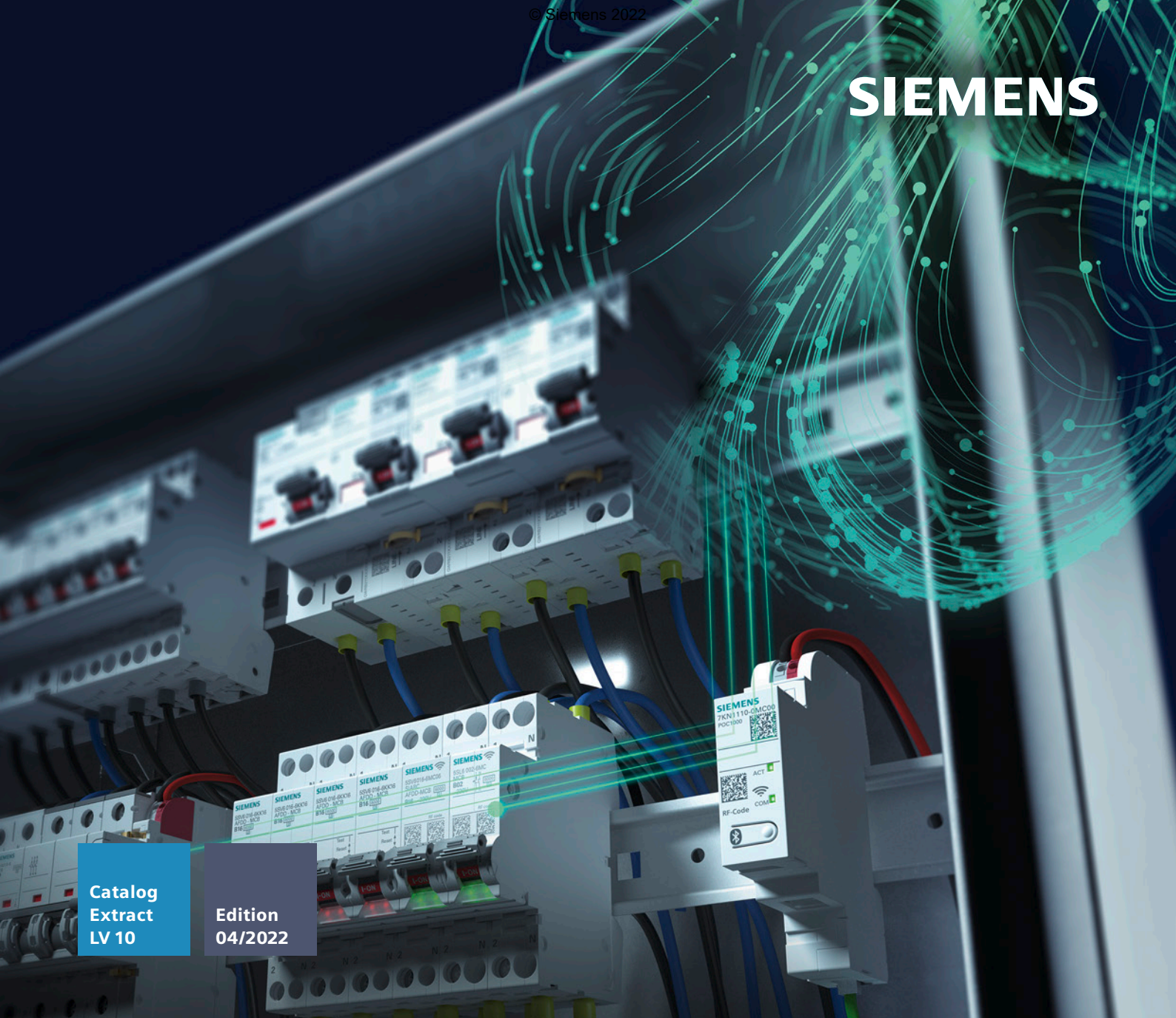
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Catalog Extract LV 10

Edition 04/2022

SENTRON • SIVACON • ALPHA

Low-Voltage Power Distribution and Electrical Installation Technology

Transformers, Power Supply Units and Socket Outlets

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Catalog LV 10 · 04/2022

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Low-Voltage Power Distribution and Electrical Installation Technology

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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.

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Transformers, Power Supply Units and Socket Outlets



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A multitude of additional information ...

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- 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)

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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.

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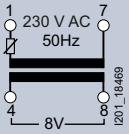
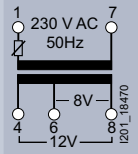
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4AC32 bell transformer

U_e 230 V AC





	Bell transformers	
Modular width	2 MW	2 MW
		

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

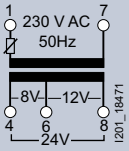
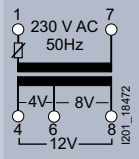
		4AC3208-0	4AC3208-1	4AC3214-0	4AC3218-0
Standards					
Standards		EN 61558-1, EN 61558-2-8			
Supply					
Rated operational voltage U_e		230 V AC			
Primary operating range at 50 Hz		1.04 × U_e			
Rated frequency		50 Hz			
Rated power dissipation P_V	In no-load operation	1.2 W		1.3 W	
	At a rated voltage 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	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× 4 mm² or 2× 2.5 mm²			
	Flexible, with end sleeve	1× 2.5 mm² or 2× 1.5 mm²			
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			

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2 MW	2 MW
	
14 VA	**18 VA**
–	–
–	–
4AC3214-0	–
–	4AC3218-0

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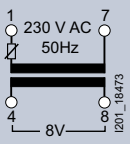
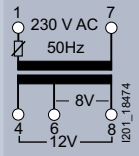
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4AC37 safety transformer

U_e 230 V AC





Modular width	2 MW	3 MW
		

Rated secondary current I_{sec} AC at rated secondary voltage U_{sec} AC					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 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				
Primary 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 mm² or 2× 2.5 mm²				
	Flexible, with end sleeve	1× 2.5 mm² or 2× 1.5 mm²				
Ambient conditions						
Permissible ambient temperature		25 °C				
Permissible humidity		91%				
Degree of protection	Acc. to EN 60629	IP20				
Protection class	Acc. to EN 61140 (VDE 0140-1)	II				

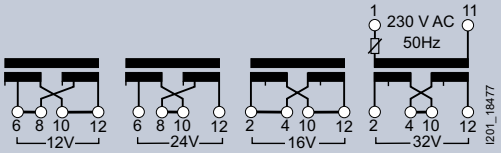
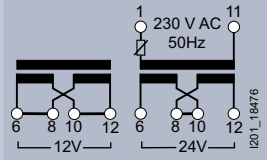
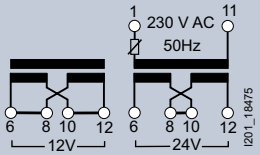
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5 MW	5 MW	5 MW
		
40 VA	**40 VA**	**63 VA**
–	–	–
–	–	–
4AC3740-1	–	–
–	4AC3740-0	–
–	–	4AC3763-0

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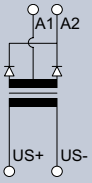
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4AC2 electronic power supply unit

SELV, short-circuit-proof



Modular 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

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System overview, page 12/4

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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 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 mm²
	Flexible, with end sleeve, min.	0.5 ... 1.5 mm²
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

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5TE6 socket outlet for modular installation devices

Version	SCHUKO® socket outlet DIN VDE 0620-1	
		

Rated operational voltage U_e	Rated operational current I_e	Modular 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



	Modular width	Article No.	Article No.
	2.5 MW	5TE9120	–

[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.

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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 mm² (AWG 10 ... 14)			
	Flexible, with end sleeve	0.5 ... 4 mm² (AWG 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 vertically			

System overview, page 12/4

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	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

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Appendix



Conditions of sale and delivery A/2

Link directory A/4

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- for other services, the „Supplementary Terms and Conditions for Services ("BL")[1)] and/or
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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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Manual for the generation, transmission and distribution of electrical energy	www.siemens.com/power-engineering-guide
Control panels for the North American market	www.siemens.com/northamerican-standards
Control panel building	www.siemens.com/controlpanel
Energy savings and amortization	www.automation.siemens.com/sinasave
SIMATIC Energy Suite	www.siemens.com/energysuite
SITOP power supplies	www.siemens.com/sitop
Power distribution with Totally Integrated Power	www.siemens.com/tip

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Catalogs and further information



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

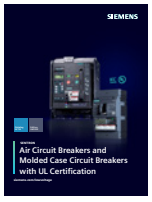
Protection, Switching, Measuring and Monitoring Devices, Switchboards and Distribution Systems

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

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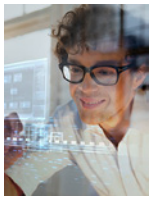
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Industrial Controls
SIRIUS

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

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