DATASHEET - STZ13,3(*/*)



Control transformer, 13.3 kVA, Rated input voltage 50 - 950 \pm 5 % V, Rated output voltage 12 - 1000 V



Part no.STZ13,3(*/*)Catalog No.201064Alternate Catalog-No.-

Delivery program

Product range		Single-phase control transformers ST
Basic function		Single-phase control, isolating and safety transformers STI, STZ
Rated input voltage	V	$50 - 950 \pm 5$ %
Rated output voltage	V	12 - 1000
Rated power	kVA	13.3
Short-time rating	kVA	34
Cu factor 25,00		

Notes

• Transformers with the rated output voltages \leq 50 V can be used as safety transformers to IEC/EN 61558.

When ordering, the part no. must include the following details:

STZ0.06(*/*)

1. Wildcard \triangleq Nominal input voltage

2nd Wildcard \triangleq Nominal output voltage

Ordering example

- desired part no. STZ0.06
- Desired rated input voltage 230 V
 Desired rated output voltage 12 V
- Desired fated balpat voltage 12

The correct part no. is

STZ0.06(230/12)

Additional tappings → 931897

Technical data

General		
Standards		
Built and tested to		IEC/EN 61558-2-2/2-4/2-6 VDE 0570 Part 2-2 VDE 0570 Part 2-6 (safety transformers) VDE 0570 Part 2-4 (isolating transformer)
Suitable for use to		IEC/EN 60204-1, ÖVE-EN 13 VDE 0113, VDE 0100 Part 410
Ambient temperature		-25 - 40
Characteristics		
Terminations		● (< 63 A)
Connection lugs		● (< 63 A)
Insulation class		В
Rated frequency	Hz	50 - 60
Primary tapping		± 5 %
Degree of Protection		IP00
Separate windings		•
Fully vacuum-impregnated		•
Reinforced insulation		•
Rated duty factor	% DF	100
Electrical characteristics		
Note		The following applies for the no-load loss, short-circuit loss (copper losses), short-circuit voltage and efficiency values: all details relate to a temperature of 20 $^{\circ}\mathrm{C}$
Total weight	kg	80

No-load losses	W	95
Short-circuit losses	W	265
Shortcircuit voltage	%	3.5
Efficiency		0.97

Design verification as per IEC/EN 61439

Design verification as per IEC/EN 61439			
Technical data for design verification			
Rated operational current for specified heat dissipation	l _n	А	0
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	360
Heat dissipation capacity	P _{diss}	w	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	40
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / One-phase control transformer (EC002486)

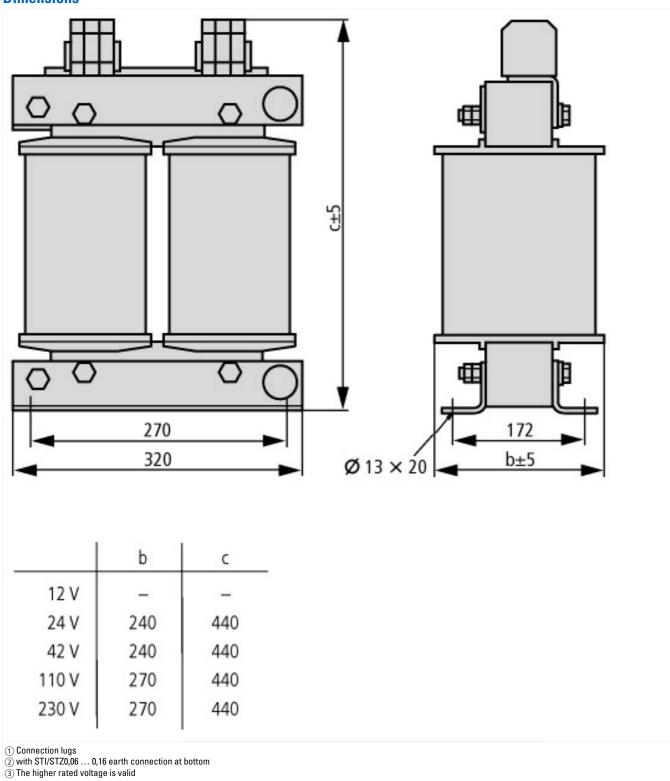
Electric engineering, automation, process control engineering / Transformer, converter, coil / Control transformer / One-phase control transformer (ecl@ss10.0.1-27-03-13-02 [AAB620015])		
Built as safety transformer		Yes
Built as isolating transformer		Yes
Built as energy saving transformer		No
Primary voltage 1	V	50 - 950
Primary voltage 2	V	50 - 950
Primary voltage 3	V	50 - 950
Primary voltage 4	V	50 - 950
Primary voltage 5	V	50 - 950
Primary voltage 6	V	50 - 950
Primary voltage 7	V	0 - 0

Primary voltage 9 V 0 Primary voltage 10 0 0 Secondary voltage 1 2 12 Secondary voltage 2 V 12 Secondary voltage 3 V 12 Secondary voltage 4 V 12 Secondary voltage 4 V 12 Secondary voltage 5 V 12 Secondary voltage 6 V 12 Secondary voltage 7 V 12 Secondary voltage 7 V 12 Secondary voltage 8 V 0 Secondary voltage 9 V 0 Secondary voltage 9 V 0 Secondary voltage 10 V 0 Secondary voltage 10 <t< th=""><th></th><th></th><th></th></t<>			
Primary voltage 10 0 0 Secondary voltage 1 V 12 Secondary voltage 2 V 12 Secondary voltage 3 V 12 Secondary voltage 4 V 12 Secondary voltage 5 V 12 Secondary voltage 6 V 12 Secondary voltage 7 V 12 Secondary voltage 8 V 0 Secondary voltage 9 V 0 Secondary voltage 10 V 0	Primary voltage 8	V	0 - 0
Secondary voltage 1Image: Condary voltage 2Image: Condary voltage 3Image: Condary voltage 4Image: Condary voltage 4Image: Condary voltage 4Image: Condary voltage 5Image: Condary voltage 6Image: Condary voltage 6Image: Condary voltage 7Image: Condary Voltage	Primary voltage 9	V	0 - 0
Number Num Num Number	Primary voltage 10	V	0 - 0
Secondary voltage 3V11Secondary voltage 4VV11Secondary voltage 5VV111Secondary voltage 6VV0011	Secondary voltage 1	V	12 - 1000
Secondary voltage 4Image: Conder woltage 5Image: Conder woltage 6Image: Conder woltage 6Image: Conder woltage 7Image: Conder wolt	Secondary voltage 2	V	12 - 1000
Secondary voltage 5 V 12 1000 Secondary voltage 6 V 12 1000 Secondary voltage 7 V 0 Secondary voltage 8 V 0 Secondary voltage 9 V 0 Secondary voltage 9 V 0 Secondary voltage 9 V 0 Secondary voltage 10 N 0 Secondary voltage 10 N 0 Secondary voltage 10 N <td< td=""><td>Secondary voltage 3</td><td>V</td><td>12 - 1000</td></td<>	Secondary voltage 3	V	12 - 1000
Secondary voltage 6V1-1000Secondary voltage 7V0Secondary voltage 7V0Secondary voltage 8V0Secondary voltage 9V0Secondary voltage 10V0Rated apparent powerV0Type of insulation material acc. IEC 85V1300Short-circuit-proofMMRelative short circuit voltageMSNether Circuit voltageM <t< td=""><td>Secondary voltage 4</td><td>V</td><td>12 - 1000</td></t<>	Secondary voltage 4	V	12 - 1000
Secondary voltage 7V00Secondary voltage 8V00Secondary voltage 9V00Secondary voltage 10V00Rated apparent powerVV0Type of insulation material acc. IEC 85V00Short-circuit-proofVB0Relative short circuit voltageM00Relative short circuit voltageM00WidthM000Degree of protection (IP)MM0Stable for mounting on PCBMMNoModular versionMMNoModular version	Secondary voltage 5	V	12 - 1000
Secondary voltage 8 V 0 Secondary voltage 9 V 0 Secondary voltage 10 V 0 Rated apparent power V 0 Type of insulation material acc. IEC 85 M M Short-circuit-proof M M No Relative short circuit voltage M M Sold Sold Width M M Sold	Secondary voltage 6	V	12 - 1000
Secondary voltage 9 V 0 Secondary voltage 10 V 0 Rated apparent power V 300 Type of insulation material acc. IEC 85 V B Short-circuit-proof V No Relative short circuit voltage M So Width M So Height M So Depth M So Ring core M M Suitable for mounting on PCB M No Modular version M No	Secondary voltage 7	V	0 - 0
Secondary voltage 10 V 0 Rated apparent power VA 3300 Type of insulation material acc. IEC 85 B Short-circuit-proof M B Ratative short circuit voltage M So Relative short circuit voltage M So Width M So Depth Mm 40 Depto Mm PO Rig core MM PO Suitable for mounting on PCB M No Modular version M No	Secondary voltage 8	V	0 - 0
Rated apparent power VA 3300 Type of insulation material acc. IEC 85 B Short-circuit-proof No Relative short circuit voltage M Width mm Height M Depth mm Depth mm Rig core M Sitable for mounting on PCB M Modular version M	Secondary voltage 9	V	0 - 0
Type of insulation material acc. IEC 85 B Short-circuit-proof No Relative short circuit voltage % Width mm Height Mm Depth mm Degree of protection (IP) mm Riag core No Suitable for mounting on PCB Mo Modular version Mo	Secondary voltage 10	V	0 - 0
No Short-circuit-proof No Relative short circuit voltage % 3.5 Width mm 320 Height mm 440 Depth mm 270 Degree of protection (IP) M 190 Sitable for mounting on PCB M No Meduar version M No	Rated apparent power	VA	13300
Relative short circuit voltage%%3.5Widthmm30Heightmm40Depthmm70Degree of protection (IP)MMSuitable for mounting on PCBMMModular versionMM	Type of insulation material acc. IEC 85		В
Yithmm30Heightmm440Depthmm270Degree of protection (IP)ICOICORing coreICOICOSuitable for mounting on PCBICOICOModular versionICOICO	Short-circuit-proof		No
Heightnm440Depthnm270Degree of protection (IP)IMIMRing coreIMIMSuitable for mounting on PCBIMIMModular versionIM <t< td=""><td>Relative short circuit voltage</td><td>%</td><td>3.5</td></t<>	Relative short circuit voltage	%	3.5
Depthmm270Degree of protection (IP)IPOIPORing coreIISuitable for mounting on PCBIIModular versionII	Width	mm	320
Degree of protection (IP)IPO0Ring coreNoSuitable for mounting on PCBNoModular versionMo	Height	mm	440
Ring core No Suitable for mounting on PCB Image: Constant of the second	Depth	mm	270
Suitable for mounting on PCB No Modular version No	Degree of protection (IP)		IP00
Modular version No	Ring core		No
	Suitable for mounting on PCB		No
Conductor material Copper	Modular version		No
	Conductor material		Copper

Approvals

Product Standards	IEC/EN 61558-2-2; CE marking
UL File No.	-
UL Category Control No.	ΧΡΤΩ2, ΧΡΤΩ8
CSA File No.	-
CSA Class No.	-
North America Certification	-
Specially designed for North America	No
Suitable for	Branch circuits
Max. Voltage Rating	600 V AC
Degree of Protection	IEC: IP00, UL/CSA Type: -





Assets (links)

Declaration of CE Conformity 00003100