DATASHEET - STZ8,3(*/*)



Control transformer, 8.3 kVA, Rated input voltage 50 – 950 \pm 5 % V, Rated output voltage 12 – 1000 V



Part no.STZ8,3(*/*)Catalog No.201062Alternate 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 ± 5 %
Rated output voltage	V	12 - 1000
Rated power	kVA	8.3
Short-time rating	kVA	21
Cu factor 17,50		

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
- Boon ou ration output 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	55

No-load losses	W	65
Short-circuit losses	W	200
Shortcircuit voltage	%	4
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	In	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	265
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)

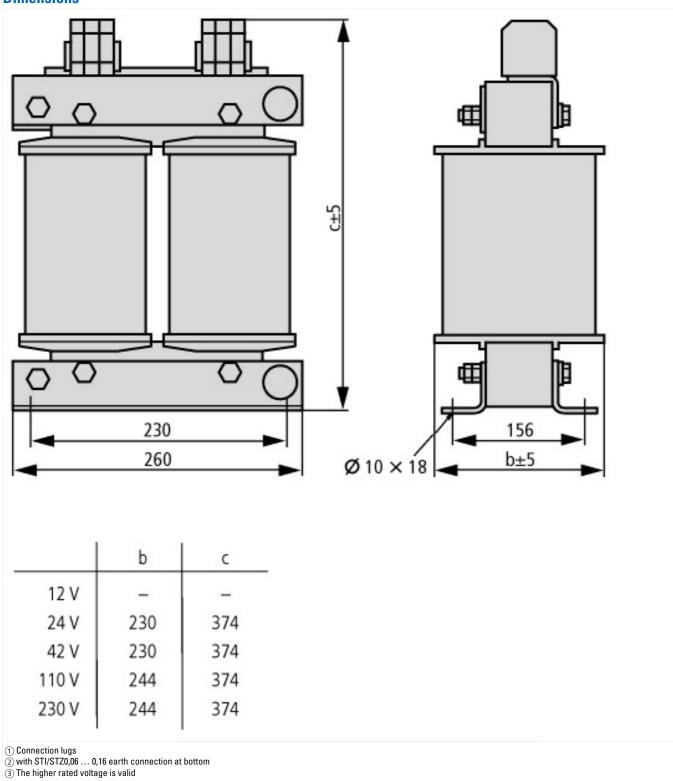
Electric engineering, automation, process control engineering / Transformer, converter, coil / Control transformer / One-phase control transformer (ecl@ss10.0.1-27-03-13-02 [AAB620015])		
Built as safety transformer		Yes
Built as isolating transformer		Yes
Built as energy saving transformer		No
Primary 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 1Primary voltage 1Pr			
Primary voltage 10IV0Secondary voltage 1IVISecondary voltage 2IVISecondary voltage 3IVISecondary voltage 4IVISecondary voltage 5IVISecondary voltage 6VVISecondary voltage 7IVISecondary voltage 7IVISecondary voltage 8IVISecondary voltage 9IIISecondary voltage 9IIISecondary voltage 10IIISecondary voltage 10IIISec	Primary voltage 8	V	0 - 0
Secondary voltage 1Image: secondary voltage 2Image: secondary voltage 3Image: secondary voltage 3Image: secondary voltage 4Image: secondary voltage 4Image: secondary voltage 4Image: secondary voltage 5Image: secondary voltage 6Image: secondary voltage 6Image: secondary voltage 7Image:	Primary voltage 9	V	0 - 0
Secondary voltage 2 V 2	Primary voltage 10	V	0 - 0
Secondary voltage 3NoNo21000Secondary voltage 5NoNoNoNoSecondary voltage 6NoNoNoNoSecondary voltage 7NoNoNoNoSecondary voltage 7NoNoNoNoSecondary voltage 8NoNoNoNoSecondary voltage 9NoNoNoNoSecondary voltage 9NoNoNoNoSecondary voltage 9NoNoNoNoSecondary voltage 10NoNoNoNoSecondary voltage 10NoNoNoNo<	Secondary voltage 1	V	12 - 1000
Secondary voltage 4III<	Secondary voltage 2	V	12 - 1000
Secondary voltage 5V12 1000Secondary voltage 6V12 1000Secondary voltage 7V0Secondary voltage 8V0Secondary voltage 9V0Secondary voltage 9V0Secondary voltage 10V0Secondary voltage 10V0 <t< td=""><td>Secondary voltage 3</td><td>V</td><td>12 - 1000</td></t<>	Secondary voltage 3	V	12 - 1000
Secondary voltage 6V12-1000Secondary voltage 7V0Secondary voltage 8V0Secondary voltage 9V0Secondary voltage 10V0Retd apparent powerV0Type of insulation material acc. IEC 85V800Short-circuit-proofMMRelative short circuit voltageM9Relative short circuit voltageM9Relative short circuit voltageM9Regree of protection (IP)MMRing coreMMStable for mounting on PCBMNModular versionMNModular versionMNM	Secondary voltage 4	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 10 V 0 Red apparent power V 800 Type of insulation material acc. IEC 85 V 800 Secondary voltage V 9 Relative short circuit voltage M 9 Relative short circuit voltage M 9 Regree of protection (IP) M 9 Ring core M No Stable for mounting on PCB M No Modular version M No	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 800 Type of insulation material acc. IEC 85 M 80 Short-circuit-proof M M Relative short circuit voltage M No Youth M 90 Height M 90 Depth M 90 Ring core M 90 Suitable for mounting on PCB M 90 Modular version M 90	Secondary voltage 6	V	12 - 1000
Secondary voltage 9 V 0 Secondary voltage 10 V 0 Red apparent power V 800 Type of insulation material acc. IEC 85 M 80 Short-circuit-proof M 80 Relative short circuit voltage M 80 Width M 80 Popth M 80 Depth M 80 Page of protection (IP) M 90 Ring ore M 90 Stable 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 300 Type of insulation material acc. IEC 85 B B Short-circuit-proof M B Rated apparent power M B Short-circuit-proof M B Relative short circuit voltage M B Width M B Height M B Depth M M Degree of protection (IP) M M Ridta for mounting on PCB M M Modular version M M	Secondary voltage 8	V	0 - 0
Rated apparent powerVA800Type of insulation material acc. IEC 85Image: Solar Control of Contr	Secondary voltage 9	V	0 - 0
Type of insulation material acc. IEC 85 B Short-circuit-proof No Relative short circuit voltage % With mm Height mm Depth mm Depte of protection (IP) M Ring core Mo Suitable for mounting on PCB Mo Modular version Mo	Secondary voltage 10	V	0 - 0
Short-circuit-proofImage: Short-circuit voltageNoRelative short circuit voltage%4Widthmm30Heightmm24Depthmm244Rogere of protection (IP)Image: Short S	Rated apparent power	VA	8300
Relative short circuit voltage%%%Withmm26Heightmm25Depthmm44Degree of protection (IP)Mm100Sitable for mounting on PCBMmNoModular versionMmNo	Type of insulation material acc. IEC 85		В
Vidthmm20Heightmm25Depthmm24Degree of protection (IP)ImmImmSitable for mounting on PCBImmNoSutable for mounting on PCBImmNoMoular versionImmNo	Short-circuit-proof		No
Heightmm295Depthmm244Degree of protection (IP)Mm244Ring coreMmNoSuitable for mounting on PCBMmNoModular versionMmNo	Relative short circuit voltage	%	4
Depthmm244Degree of protection (IP)IPORing coreISuitable for mounting on PCBIModular versionI	Width	mm	260
Degree of protection (IP) IPO Ring core No Suitable for mounting on PCB IPO Modular version IPO	Height	mm	295
Ring core No Suitable for mounting on PCB Image: Color of the sector of	Depth	mm	244
Suitable for mounting on PCB Modular version No 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: -





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Assets (links)

Declaration of CE Conformity 00003100