## **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. 201064
Alternate Catalog -

No

## **Delivery program**

71 0		
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	13.3
Short-time rating	kVA	34
Cu factor 25 00		

#### Notes

• Transformers with the rated output voltages ≤ 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 ≙ Nominal input voltage

2nd Wildcard ≙ Nominal output voltage

#### Ordering example

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

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	Н	lz	50 - 60
Primary tapping			± 5 %
Degree of Protection			IP00
Separate windings			•
Fully vacuum-impregnated			•
Reinforced insulation			•
Rated duty factor	%	6 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 $^{\circ}\text{C}$
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

besign vermeation as per 120/214 01405			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	360
Heat dissipation capacity	P <sub>diss</sub>	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)

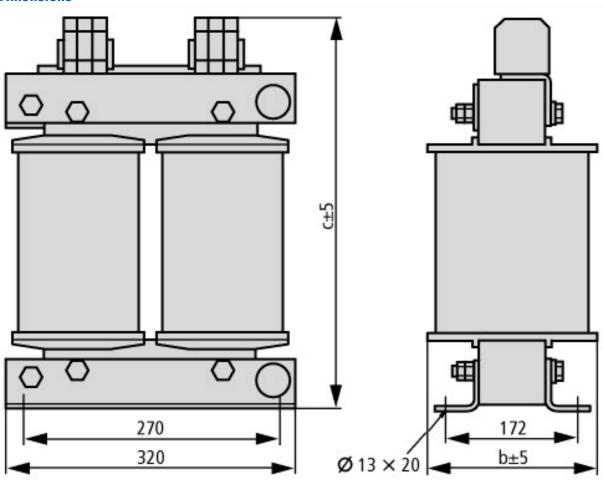
Electric engineering, automation, process control engineering / Transformer, converter, coil / Control transformer / One-phase control transformer (ecl@ss10.0.1-27-03-13-02 [AAB620015]) Built as safety transformer Yes Built as isolating transformer Yes Built as energy saving transformer No Primary voltage 1 ٧ 50 - 950 Primary voltage 2 50 - 950 Primary voltage 3 50 - 950 Primary voltage 4 50 - 950 Primary voltage 5 50 - 950 ٧ 50 - 950 Primary voltage 6 Primary voltage 7 0 - 0

Primary voltage 8	,	V	0 - 0
Primary voltage 9		V	0 - 0
Primary voltage 10		V	0 - 0
Secondary voltage 1		V	12 - 1000
Secondary voltage 2		V	12 - 1000
Secondary voltage 3		V	12 - 1000
Secondary voltage 4		V	12 - 1000
Secondary voltage 5		V	12 - 1000
Secondary voltage 6		V	12 - 1000
Secondary voltage 7	,	V	0 - 0
Secondary voltage 8	,	V	0 - 0
Secondary voltage 9		V	0 - 0
Secondary voltage 10	,	V	0 - 0
Rated apparent power		VA	13300
Type of insulation material acc. IEC 85			В
Short-circuit-proof			No
Relative short circuit voltage		%	3.5
Width		mm	320
Height		mm	440
Depth		mm	270
Degree of protection (IP)			IP00
Ring core			No
Suitable for mounting on PCB			No
Modular version			No
Conductor material			Copper

# Approvals

Product Standards	IEC/EN 61558-2-2; CE marking
UL File No.	-
UL Category Control No.	XPTQ2, XPTQ8
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: -

## **Dimensions**



	b	С
12 V	-	-
24 V	240	440
42 V	240	440
110 V	270	440
230 V	270	440

Connection lugs
 with STI/STZ0,06 ... 0,16 earth connection at bottom
 The higher rated voltage is valid