DATASHEET - STZ0,315(*/*)



Control transformer, 0.315 kVA, Rated input voltage 50 - 950 \pm 5 % V, Rated output voltage 12 – 1000 V



Powering Business Worldwide

Part no. STZ0,315(*/*) Catalog No. 914766

Alternate Catalog

Delivery program

71 3		
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	0.315
Short-time rating	kVA	0.75
Cu factor 1,10		

Notes

- Transformers with the rated output voltages ≤ 50 V can be used as safety transformers to IEC/EN 61558.
- UL/CSA only up to primary and secondary 600 V (incl. tapping).

When ordering, the type reference must include the following details:

STZ0,06(*/*)

1st wildcard ≙ Nominal input voltage

2nd wildcard ≙ Rated output voltage

Ordering example

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

The correct type reference 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	% D	F 100		
Flectrical characteristics				

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 °C

Total weight	kg	4.3
No-load losses	W	10
Short-circuit losses	W	18
Shortcircuit voltage	%	5.5
Efficiency		0.92

Design verification as per IEC/EN 61439

Design vermountion as per 120/214 01403			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	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	28
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.	0.00	°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)

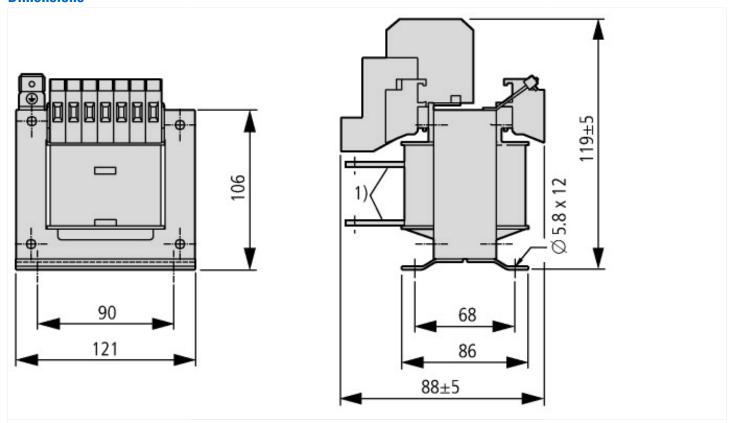
Built as isolating transformer Built as energy saving transformer No Primary voltage 1 V 50 - 950 Primary voltage 2 V 50 - 950 Primary voltage 3 V 50 - 950 Primary voltage 4 V 50 - 950 Primary voltage 5 V 50 - 950	Electric engineering, automation, process control engineering / Iransformer, converter, coil / Control transformer / Une-phase control transformer (ecl@ss10.0.1-2/-u3-13-u2 [AAB620015])		
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	Built as safety transformer		Yes
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	Built as isolating transformer		Yes
Primary voltage 2 V 50 - 950 Primary voltage 3 V 50 - 950 Primary voltage 4 V 50 - 950 Primary voltage 5 V 50 - 950	Built as energy saving transformer		No
Primary voltage 3 V 50 - 950 Primary voltage 4 V 50 - 950 Primary voltage 5 V 50 - 950	Primary voltage 1	V	50 - 950
Primary voltage 4 V 50 - 950 Primary voltage 5 V 50 - 950	Primary voltage 2	V	50 - 950
Primary voltage 5 V 50 - 950	Primary voltage 3	V	50 - 950
	Primary voltage 4	V	50 - 950
Primary voltage 6 V 50 - 950	Primary voltage 5	V	50 - 950
	Primary voltage 6	V	50 - 950

Primary voltage 7	\	V	0 - 0
Primary voltage 8	1	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	١	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	315
Type of insulation material acc. IEC 85			В
Short-circuit-proof			No
Relative short circuit voltage	C	%	5.5
Width	r	mm	121
Height	r	mm	131
Depth	r	mm	88
Degree of protection (IP)			IP00
Ring core			No
Suitable for mounting on PCB			No
Modular version			No
Conductor material			Copper

Approvals

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Product Standards	UL 506; UL5085-1; UL 5085-2; CSA-C22.2 No. 66; CSA-C22.2 No. 66.1-06; CSA-C22.2 No. 66.2-06; IEC/EN 61558-2-2; CE marking
UL File No.	E167225
UL Category Control No.	XPTQ2, XPTQ8
CSA File No.	UL report applies to both US and Canada
CSA Class No.	-
North America Certification	UL recognized, certified by UL for use in Canada
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



- Connection lugs
 With STI/STZ0.06 ... 0.16 ground connection at bottom
 The higher rated operating voltage applies