

Control transformer, 4 kVA, Rated input voltage 50 – 950 ± 5 % V, Rated output voltage 12 – 1000 V

**Part no. STZ4,0(*/*)
914777**

General specifications		
Product name		Eaton Moeller® series STZ Control transformer
Part no.		STZ4,0(*/*)
Product Length/Depth		200 millimetre
Product height		255 millimetre
Product width		230 millimetre
Product weight		35 kilogram
Certifications		UL5085-1 UL File No.: E167225 CSA-C22.2 No. 66.1-06 VDE 0570 Part 2-4 (isolating transformer) UL Category Control No.: XPTQ2, XPTQ8 CE UL 506 IEC/EN 60204-1, ÖVE-EN 13 IEC/EN 61558-2-2 VDE 0570 Part 2-2 IEC/EN 61558-2-2/2-4/2-6 CSA-C22.2 No. 66.2-06 UL Recognized VDE 0570 Part 2-6 (safety transformers) Certified by UL for use in Canada CSA-C22.2 No. 66 VDE 0113, VDE 0100 Part 410 UL report applies to both US and Canada UL 5085-2
Product Tradename		STZ
Product Type		Control transformer
Product Sub Type		None
Catalog Notes		Electrical characteristics: all details for no-load loss, short-circuit loss (copper losses), short-circuit voltage and efficiency values relate to a temperature of 20 °C
Features & Functions		
Features		Separate windings Reinforced insulation Fully Vacuum-impregnated
General information		
Ambient operating temperature - min		-25 °C
Ambient operating temperature - max		40 °C
Connection lug		Yes for < 63 A
Connection type		Terminations, < 63 A
Degree of protection		IP00
Duty factor		100 %
Insulation class		B
Primary tapping		± 5 %
Product category		Single-phase control transformers ST
Suitable for		Branch circuits, (UL/CSA)
Type		Single-phase control, isolating and safety transformer
Electrical rating		
Efficiency		97 %
No-load losses		38 W
Rated frequency - min		50 Hz
Rated frequency - max		60 Hz
Rated power		4 V·A
Relative short-circuit voltage		2.2 %
Short-circuit losses		88 W
Short-time rating		15 kV·A

Voltage rating - max			600 V
Design verification			
Equipment heat dissipation, current-dependent Pvid			0 W
Heat dissipation capacity Pdis			0 W
Heat dissipation per pole, current-dependent Pvid			0 W
Rated operational current for specified heat dissipation (In)			0 A
Static heat dissipation, non-current-dependent Pvs			126 W
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 9.0

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@ss13-27-03-13-02 [AAB620020])			
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 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	4000
Power	W	
Power consumption in standby mode	W	11
Type of insulation material according to IEC 85		B
Short-circuit-proof		No
Relative short circuit voltage	%	2.2
Width	mm	230
Height	mm	255
Depth	mm	200
Degree of protection (IP)		IP00
Ring core		No
Suitable for mounting on PCB		No
Modular version		No
Conductor material		Copper