

Control transformer, 0.2 kVA, Rated input voltage 100 – 690 ± 5 % V, Rated output voltage 12 – 250 V

Part no. **STN0,2(*/*)**
204950

General specifications		
Product name		Eaton Moeller® series STN Control transformer
Part no.		STN0,2(*/*)
Product Length/Depth		83 millimetre
Product height		112 millimetre
Product width		106 millimetre
Product weight		2.8 kilogram
Compliances		CE Marked
Certifications		EN 60204-1 VDE IEC/EN 61558-2-2 VDE 0570 Part 2-2 UL 506 UL File No.: E167225 CSA-C22.2 No. 66.2-06 UL Category Control No.: XPTQ2, XPTQ8 UL Recognized VDE 0113, VDE 0100 Part 410 CSA-C22.2 No. 66 CE IEC/EN 60204-1, ÖVE-EN 13 UL 5085-2 CSA-C22.2 No. 66.1-06 UL report applies to both US and Canada Certified by UL for use in Canada UL5085-1
Product Tradename		STN
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		Fully Vacuum-impregnated Separate windings
General information		
Ambient operating temperature - min		-25 °C
Ambient operating temperature - max		40 °C
Connection lug		Yes for > 115 A
Connection type		Terminations, < 115 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 STN control transformers
Electrical rating		
Efficiency		88 %
No-load losses		9 W
Rated frequency - min		50 Hz
Rated frequency - max		60 Hz
Rated power		0.2 V-A
Relative short-circuit voltage		6.8 %
Short-circuit losses		19 W
Short-time rating		0.38 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			28 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			No
Built as isolating transformer			No
Built as energy saving transformer			No
Primary voltage 1		V	100 - 690
Primary voltage 2		V	0 - 0
Primary voltage 3		V	0 - 0
Primary voltage 4		V	0 - 0
Primary voltage 5		V	0 - 0
Primary voltage 6		V	0 - 0
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 - 250
Secondary voltage 2		V	0 - 0
Secondary voltage 3		V	0 - 0
Secondary voltage 4		V	0 - 0
Secondary voltage 5		V	0 - 0
Secondary voltage 6		V	0 - 0
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	200
Power	W	
Power consumption in standby mode	W	9
Type of insulation material according to IEC 85		B
Short-circuit-proof		No
Relative short circuit voltage	%	6.8
Width	mm	106
Height	mm	112
Depth	mm	83
Degree of protection (IP)		IP00
Ring core		No
Suitable for mounting on PCB		No
Modular version		No
Conductor material		Copper