## DATASHEET - STN0,63(\*/\*)

Control transformer, 0.63 kVA, Rated input voltage 100 – 690  $\pm$  5 % V, Rated output voltage 12 – 250 V



Part no.

STN0,63(\*/\*) 204987

General specifications	
Product name	Eaton Moeller® series STN Control transformer
Part no.	STN0,63(*/*)
Product Length/Depth	121 millimetre
Product height	157 millimetre
Product width	151 millimetre
Product weight	7.1 kilogram
Compliances	CE Marked
Certifications	EN 60204-1 VDE UL report applies to both US and Canada VDE 0570 Part 2-2 UL File No.: E167225 CSA-C22.2 No. 66 UL Recognized IEC/EN 60204-1, ÖVE-EN 13 Certified by UL for use in Canada CE UL 5085-1 IEC/EN 61558-2-2 UL Category Control No.: XPT02, XPT08 CSA-C22.2 No. 66.2-06 VDE 0113, VDE 0100 Part 410 CSA-C22.2 No. 66.1-06 UL 506
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	Separate windings Fully Vacuum-impregnated
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	IPOO
Duty factor	100 %
Insulation class	B
Primary tapping	± 5 %
Product category	Single-phase control transformers ST
Suitable for	Branch circuits, (UL/CSA)
Туре	Single-phase STN control transformers
Electrical rating	
Efficiency	93 %
No-load losses	93 % 21 W
Rated frequency - min	50 Hz
Rated frequency - max	60 Hz
Rated power	0.63 V·A
Relative short-circuit voltage	3.8 %
Short-circuit losses	32 W
Short-time rating	1.51 kV·A

10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must observed.	Voltage rating - max	600 V
Heat dissipation capacity Pdiss     OW       Heat dissipation pole, current-dependent Pvid     0W       Rated operational current for specified heat dissipation (In)     0A       Static heat dissipation, non-current-dependent Pvs     53 W       102.2 Corrosion resistance     Meets the product standard's requirements.       102.3 Verification of themal stability of enclosures     Meets the product standard's requirements.       102.3 Verification of resistance of insulating materials to normal heat     Meets the product standard's requirements.       102.3 Resist of insul. mat. to abnormal heat/fre by internal elect. effects     Meets the product standard's requirements.       102.4 Resistance to ultra-violet (UV) rediation     Meets the product standard's requirements.       102.5 Lifting     Does not apply, since the entire switchgear needs to be evaluated.       102.7 Inscriptions     Meets the product standard's requirements.       103.0 Degree of protection of assemblies     Does not apply, since the entire switchgear needs to be evaluated.       104.1 Degree of protection against electric shock     Meets the product standard's requirements.       104.2 Degree of protection against electric shock     Meets the product standard's requirements.       104.3 Degree of protection against electric shock     Meets the product standard's requirements.       10	Design verification	
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Rated operational current for specified heat dissipation (In)     DA       Static heat dissipation, non-current-dependent Pvs     53 W       102.2 Corrasion resistance     Meets the product standard's requirements.       102.3.1 Verification of thermal stability of enclosures     Meets the product standard's requirements.       102.3.2 Verification of resistance of insulating materials to normal heat     Meets the product standard's requirements.       102.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects     Meets the product standard's requirements.       102.4 Resistance to ultra-widet (UV) radiation     Meets the product standard's requirements.       102.5 Lifting     Does not apply, since the entire switchgear needs to be evaluated.       102.2 Inscriptions     Does not apply, since the entire switchgear needs to be evaluated.       103.2 Degree of protection of assemblies     Meets the product standard's requirements.       103.1 Gegree of protection of switching devices and components     Does not apply, since the entire switchgear needs to be evaluated.       104.2 Internal electrical circuits and connections     Meets the product standard's requirements.       103.2 Degree of protection of switching devices and components     Does not apply, since the entire switchgear needs to be evaluated.       104.3 Internal electrical circuits and connections     Ste panel builder's responsibility.	Heat dissipation capacity Pdiss	0 W
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10.13 Mechanical function   Observed.     The device meets the requirements, provided the information in the instruction	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	

## **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 10     V     0       Rated aparent power     VA     630       Power     W     V       Power consumption in standby mode     W     7       Type of insulation material according to IEC 85     M     S       Short-circuit-proof     M     V     No       Relative short circuit voltage     M     S     S       Width     M     S     S       Depth     M     S     S       Degree of protection (IP)     M     S     S       Suitable for mounting on PCB     M     No     S       Modular version     M     No     S			
Action     Value     Value <t< td=""><td>Secondary voltage 9</td><td>V</td><td>0 - 0</td></t<>	Secondary voltage 9	V	0 - 0
Power     W       Power consumption in standby mode     W     7       Power consumption in standby mode     W     7       Type of insulation material according to IEC 85     M     B       Short-circuit-proof     M     N       Relative short circuit voltage     M     S       Width     M     S       Height     M     S       Depth     M     S       Relative short circuit (P)     M     S       Regree of protection (IP)     M     S       Suitable for mounting on PCB     M     No       Modular version     M     No	Secondary voltage 10	V	0 - 0
Power consumption in standby mode     W     7       Power consumption in standby mode     FW     7       Type of insulation material according to IEC 85     B     B       Short-circuit-proof     FW     No       Relative short circuit voltage     M     S       Width     Mm     15       Height     Mm     17       Depth     Mm     12       Rig core     MM     12       Suitable for mounting on PCB     M     No	Rated apparent power	VA	630
Type of insulation material according to IEC 85   6   8     Short-circuit-proof   No   No     Relative short circuit voltage   %   38     Width   mm   151     Height   mm   157     Depth   mm   121     Regree of protection (IP)   mm   121     Ring core   Mo   No     Suitable for mounting on PCB   Mo   No     Modular version   Mo   No	Power	W	
Short-circuit-proof   No     Relative short circuit voltage   %     Width   Mm     Height   mm     Depth   mm     Degree of protection (IP)   Mm     Ring core   Mo     Suitable for mounting on PCB   Mm     Modular version   Mm	Power consumption in standby mode	W	27
Relative short circuit voltage   %   %   3.8     Width   mm   151     Height   mm   157     Depth   mm   121     Degree of protection (IP)   M   MO     Ring core   M   No     Suitable for mounting on PCB   M   No     Modular version   M   No	Type of insulation material according to IEC 85		В
Yidthmm151Heightmm157Depthmm121Degree of protection (IP)Mm100Ring coreMmNoSuitable for mounting on PCBMmNoModular versionMmNo	Short-circuit-proof		No
Heightmm57Depthmm12Degree of protection (IP)ICICRing coreICICSuitable for mounting on PCBICICModular versionIC	Relative short circuit voltage	%	3.8
Depthmm121Degree of protection (IP)IPOIPORing coreNoNoSuitable for mounting on PCBImodel and the second and the s	Width	mm	151
Degree of protection (IP) POO   Ring core No   Suitable for mounting on PCB No   Modular version Col	Height	mm	157
Ring core No   Suitable for mounting on PCB Modular version	Depth	mm	121
Suitable for mounting on PCB No   Modular version 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