DATASHEET - STN0,63(*/*)

Control transformer, 0.63 kVA, Rated input voltage 100 – 690 ± 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 5085-2 UL5085-1 IEC/EN 61558-2-2 UL Category Control No.: XPTQ2, XPTQ8 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			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			93 %
No-load losses			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

Voltage rating - max			600 V
Design verification			
Equipment heat dissipation, current-dependent Pvid			0 W
Heat dissipation capacity Pdiss			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			53 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	630
Power		W	
Power consumption in standby mode		W	27
Type of insulation material according to IEC 85			B
Short-circuit-proof			No
Relative short circuit voltage		%	3.8
Width		mm	151
Height		mm	157
Depth		mm	121
Degree of protection (IP)			IP00
Ring core			No
Suitable for mounting on PCB			No
Modular version			No
Conductor material			Copper