DATASHEET - STN0,5(400/230)

Control transformer, 0.5 kVA, Rated input voltage 400± 5 % V, Rated output voltage 230 V

Powering Business Worldwide™

Part no. STN0,5(400/230)
204986

General specifications

Product name	Eaton Moeller® series STN Control transformer
Part no.	STN0,5(400/230)
EAN	4015082049867
Product Length/Depth	100 millimetre
Product height	124 millimetre
Product width	121 millimetre
Product weight	5.349 kilogram
Certifications	IEC/EN 61558-2-2 CSA-C22.2 No. 66.1-06 UL 506 UL 5085-2 Certified by UL for use in Canada CSA-C22.2 No. 66.2-06 UL5085-1 UL File No.: E167225 UL Recognized CSA-C22.2 No. 66 CE UL report applies to both US and Canada UL Category Control No.: XPTQ2, XPTQ8 IEC/EN 60204-1, ÖVE-EN 13 VDE 0570 Part 2-2 VDE 0113, VDE 0100 Part 410
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	93 %
No-load losses	15 W
Rated frequency - min	50 Hz
Rated frequency - max	60 Hz
Rated power	0.5 V·A
Relative short-circuit voltage	4.1 %
Short-circuit losses	27 W
Short-time rating	0.88 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			42 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	400 - 400
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	230 - 230
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	500
Power		W	
Power consumption in standby mode		W	56
Type of insulation material according to IEC 85			B
Short-circuit-proof			No
Relative short circuit voltage		%	4.1
Width		mm	121
Height		mm	124
Depth		mm	100
Degree of protection (IP)			IP00
Ring core			No
Suitable for mounting on PCB			No
Modular version			No
Conductor material			Copper