DATASHEET - STI0,63(230/24)

Control transformer, 0.63 kVA, Rated input voltage 230± 5 % V, Rated output voltage 24 V

Powering Business Worldwide

Part no. STI0,63(230/24)
036395

General specifications

Product name	Eaton Moeller® series STI Control transformer
Part no.	STI0,63(230/24)
EAN	4015080363958
Product Length/Depth	121 millimetre
Product height	157 millimetre
Product width	151 millimetre
Product weight	7.702 kilogram
Certifications	IEC/EN 60204-1, ÖVE-EN 13 UL File No.: E167225 CSA-C22.2 No. 66.2-06 Certified by UL for use in Canada VDE 0570 Part 2-6 (safety transformers) VDE 0570 Part 2-2 CSA-C22.2 No. 66.1-06 UL 5085-2 UL Category Control No.: XPTQ2, XPTQ8 CSA-C22.2 No. 66 CE UL5085-1 UL report applies to both US and Canada VDE 0570 Part 2-4 (isolating transformer) IEC/EN 61558-2-2/2-4/2-6 UL 506 VDE 0113, VDE 0100 Part 410 IEC/EN 61558-2-2 UL Recognized
Product Tradename	STI
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 Reinforced insulation

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 control, isolating and safety transformer

Electrical rating

Efficiency	94 %
No-load losses	15 W
Rated frequency - min	50 Hz
Rated frequency - max	60 Hz
Rated power	0.63 V·A
Relative short-circuit voltage	4.1 %
Short-circuit losses	27 W

Short-time rating			1.7 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			Yes
Built as isolating transformer			Yes
Built as energy saving transformer			No
Primary voltage 1		V	230 - 230
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	24 - 24
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	9
Type of insulation material according to IEC 85			B
Short-circuit-proof			No
Relative short circuit voltage		%	4.1
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