Specifications

Eaton 040644

Eaton Moeller® series STI Control transformer, 0.63 kVA, Rated input voltage 230± 5 % V, Rated output voltage 230 V

General specifications	
PRODUCT NAME	Eaton Moeller® series STI Control transformer
CATALOG NUMBER	040644
EAN	4015080406440
PRODUCT LENGTH/DEPTH	107 mm
PRODUCT HEIGHT	145 mm
PRODUCT WIDTH	151 mm
PRODUCT WEIGHT	7.71 kg
CERTIFICATIONS	UL 506 UL Category Control No.: XPTQ2, XPTQ8 UL Recognized UL report applies to both US and Canada IEC/EN 61558-2-2 UL File No.: E167225 CE VDE 0570 Part 2-2 VDE 0570 Part 2-6 (safety transformers) IEC/EN 61558-2-2/2-4/2-6 CSA-C22.2 No. 66.1-06 UL 5085-2 VDE 0113, VDE 0100 Part 410 Certified by UL for use in Canada IEC/EN 60204-1, ÖVE-EN 13 UL5085-1 VDE 0570 Part 2-4 (isolating transformer) CSA-C22.2 No. 66 CSA-C22.2 No. 66.2-06
CATALOG NOTES	Electrical characteristics: all details for no-load loss, short-circuit loss (copper

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	losses), short-circuit voltage and efficiency values relate to a temperature of 20 °C
MODEL CODE	STI0,63(230/230)

Product specifications

TYPE	Single-phase control, isolating and safety transformer
FEATURES	Fully Vacuum-impregnated Reinforced insulation Separate windings
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.
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

Resources

APPLICATION NOTES	eaton-transformer-stz-sti-stn-dtz-uti-ap009002-en-us.pdf
BROCHURES	eaton-transformers-brochure-br009002en-en-us.pdf
CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
DECLARATIONS OF CONFORMITY	DA-DC-00004447.pdf DA-DC-00004421.pdf
DRAWINGS	eaton-general-transformer-sti-control-transformer-dimensions-013.eps
ECAD MODEL	eaton-sti-control-transformer-eplan-040644.edz
MCAD MODEL	DA-CD-sti0_63_230 DA-CS-sti0_63_230
SYSTEM OVERVIEW	eaton-general-diagram-sti-control-transformer-explosion-drawing.eps

	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.
AMBIENT OPERATING TEMPERATURE - MAX	40 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
APPARENT POWER	630 VA
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0 W
NO-LOAD LOSSES	15 W
PRIMARY VOLTAGE 1 - MAX	230 V
PRIMARY VOLTAGE 1 - MIN	230 V
PRIMARY VOLTAGE 10 - MAX	0 V
PRIMARY VOLTAGE 10 -	0 V

MIN	
PRIMARY VOLTAGE 2 - MAX	0 V
PRIMARY VOLTAGE 2 - MIN	0 V
PRIMARY VOLTAGE 3 - MAX	0 V
PRIMARY VOLTAGE 3 - MIN	0 V
PRIMARY VOLTAGE 4 - MAX	0 V
PRIMARY VOLTAGE 4 - MIN	0 V
PRIMARY VOLTAGE 5 - MAX	0 V
PRIMARY VOLTAGE 5 - MIN	0 V
PRIMARY VOLTAGE 6 - MAX	0 V
BUILT AS	Safety transformer Isolating transformer
CONDUCTOR MATERIAL	Copper
DEGREE OF PROTECTION	IP00
CONNECTION LUG	Yes for > 115 A
CONNECTION TYPE	Terminations, < 115 A
DUTY FACTOR	100 %
INSULATION MATERIAL TYPE (IEC 85)	B
EFFICIENCY	94 %
RELATIVE SHORT-CIRCUIT VOLTAGE	4.1 %
SUITABLE FOR	Branch circuits, (UL/CSA)
INSULATION CLASS	B
PRIMARY TAPPING	± 5 %
PRIMARY VOLTAGE 6 - MIN	0 V
PRIMARY VOLTAGE 7 - MAX	0 V
PRIMARY VOLTAGE 7 - MIN	0 V
PRIMARY VOLTAGE 8 - MAX	0 V
PRIMARY VOLTAGE 8 - MIN	0 V
PRIMARY VOLTAGE 9 - MAX	0 V

PRIMARY VOLTAGE 9 - MIN	0 V
RATED FREQUENCY - MAX	60 Hz
RATED FREQUENCY - MIN	50 Hz
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0 A
RATED POWER	0.63 VA
SECONDARY VOLTAGE 1 - MAX	230 V
SECONDARY VOLTAGE 1 - MIN	230 V
SECONDARY VOLTAGE 10 - MAX	0 V
SECONDARY VOLTAGE 10 - MIN	0 V
SECONDARY VOLTAGE 2 - MAX	0 V
SECONDARY VOLTAGE 2 - MIN	0 V
SECONDARY VOLTAGE 3 - MAX	0 V
SECONDARY VOLTAGE 3 - MIN	0 V
SECONDARY VOLTAGE 4 - MAX	0 V
PRODUCT CATEGORY	Single-phase control transformers ST
SECONDARY VOLTAGE 4 - MIN	0 V
SECONDARY VOLTAGE 5 - MAX	0 V
SECONDARY VOLTAGE 5 - MIN	0 V
SECONDARY VOLTAGE 6 - MAX	0 V
SECONDARY VOLTAGE 6 - MIN	0 V
SECONDARY VOLTAGE 7 - MAX	0 V
SECONDARY VOLTAGE 7 - MIN	0 V
SECONDARY VOLTAGE 8 - MAX	0 V
SECONDARY VOLTAGE 8 - MIN	0 V

SECONDARY VOLTAGE 9 - MAX	0 V
SECONDARY VOLTAGE 9 - MIN	0 V
SHORT-CIRCUIT LOSSES	27 W
SHORT-TIME RATING	1.7 kVA
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	42 W
VOLTAGE RATING - MAX	600 V
POWER CONSUMPTION IN STANDBY MODE	38 W

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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