Specifications



Photo is representative

Eaton 221510

Eaton Moeller® series STN Control transformer, 0.315 kVA, Rated input voltage 230± 5 % V, Rated output voltage 24 V

General specifications	
PRODUCT NAME	Eaton Moeller® series STN Control transformer
CATALOG NUMBER	221510
MODEL CODE	STN0,315(230/24)
EAN	4015082215101
PRODUCT LENGTH/DEPTH	91 mm
PRODUCT HEIGHT	112 mm
PRODUCT WIDTH	106 mm
PRODUCT WEIGHT	4.52 kg
CERTIFICATIONS	CSA-C22.2 No. 66.2-06 UL 5085-2 UL File No.: E167225 CE CSA-C22.2 No. 66.1-06 Certified by UL for use in Canada UL report applies to both US and Canada IEC/EN 60204-1, ÖVE-EN 13 UL5085-1 IEC/EN 61558-2-2 UL 506 UL Recognized VDE 0570 Part 2-2 UL Category Control No.: XPTQ2, XPTQ8 VDE 0113, VDE 0100 Part 410 CSA-C22.2 No. 66
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
GLOBAL CATALOG	221510
PRODUCT TYPE	Control transformer

Product specifications

TYPE	Single-phase STN control transformers
FEATURES	Fully Vacuum-impregnated 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 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	Is the panel builder's responsibility.

Resources

APPLICATION NOTES	eaton-transformer-stz-sti-stn-dtz-uti-ap009002-en-us.pdf
BROCHURES	eaton-transformers-brochure-br009002en-en-us.pdf
CATALOGS	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-control-transformer-declaration-of-conformity-uk251061en.pdf eaton-control-transformer-declaration-of-conformity-eu250578en.pdf
DRAWINGS	eaton-general-control-stn-control-transformer-dimensions-008.eps
ECAD MODEL	ETN.221510.edz
MCAD MODEL	eaton-single-phase-control-transformers-mcad-drawings-stn0-315-sti0-25.dwg DA-CS-stn0_315
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 221510
SYSTEM OVERVIEW	eaton-general-diagram-sti-control-transformer-explosion-drawing.eps

AND CONNECTIONS	
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	315 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	11 W
PRIMARY VOLTAGE 1 - MAX	230 V
PRIMARY VOLTAGE 1 - MIN	230 V
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	91 %
RELATIVE SHORT-CIRCUIT VOLTAGE	5.3 %
SUITABLE FOR	Branch circuits, (UL/CSA)
INSULATION CLASS	B
PRIMARY TAPPING	± 5 %
RATED FREQUENCY - MAX	60 Hz
RATED FREQUENCY - MIN	50 Hz
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0 A
RATED POWER	0.315 VA
SECONDARY VOLTAGE 1 - MAX	24 V
SECONDARY VOLTAGE 1	24 V

- MIN	
PRODUCT CATEGORY	Single-phase control transformers ST
SHORT-CIRCUIT LOSSES	21 W
SHORT-TIME RATING	0.6 kVA
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	32 W
VOLTAGE RATING - MAX	600 V
POWER CONSUMPTION IN STANDBY MODE	27 W

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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