Specifications

Eaton 221528

Eaton Moeller® series STN Control transformer, 4 kVA, Rated input voltage 400± 5 % V, Rated output voltage 230 V

General specifications	
PRODUCT NAME	Eaton Moeller® series STN Control transformer
CATALOG NUMBER	221528
EAN	4015082215286
PRODUCT LENGTH/DEPTH	185 mm
PRODUCT HEIGHT	255 mm
PRODUCT WIDTH	230 mm
PRODUCT WEIGHT	35.114 kg
CERTIFICATIONS	UL Category Control No.: XPTQ2, XPTQ8 UL report applies to both US and Canada UL File No.: E167225 UL Recognized UL5085-1 VDE 0113, VDE 0100 Part 410 CE CSA-C22.2 No. 66 IEC/EN 60204-1, ÖVE-EN 13 Certified by UL for use in Canada UL 5085-2 CSA-C22.2 No. 66.1-06 CSA-C22.2 No. 66.2-06 IEC/EN 61558-2-2 UL 506 VDE 0570 Part 2-2
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
MODEL CODE	STN4,0(400/230)

Powering Business Worldwide

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.

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-00004448.pdf DA-DC-00004420.pdf
DRAWINGS	eaton-general-dimensions-390x119.eps
ECAD MODEL	DA-CE-ETN.STN4,0(400_230)
MCAD MODEL	DA-CS-stn4_0_230 DA-CD-stn4_0_230
SYSTEM OVERVIEW	eaton-general-diagram-sti-control-transformer-explosion-drawing-002.eps

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	4000 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	28 W
PRIMARY VOLTAGE 1 - MAX	400 V
PRIMARY VOLTAGE 1 - MIN	400 V
PRIMARY VOLTAGE 10 - MAX	0 V
PRIMARY VOLTAGE 10 - MIN	0 V

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
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	96 %
RELATIVE SHORT-CIRCUIT VOLTAGE	2.4 %
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 -	60 Hz

MAX	
RATED FREQUENCY - MIN	50 Hz
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0 A
RATED POWER	4 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 -	0 V

MIN	
SHORT-CIRCUIT LOSSES	143 W
SHORT-TIME RATING	12.2 kVA
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	171 W
VOLTAGE RATING - MAX	600 V
POWER CONSUMPTION IN STANDBY MODE	13 W

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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