

Specifications



Eaton 204981

Eaton Moeller® series STN Control transformer, 0.315 kVA, Rated input voltage 100 – 690 ± 5 % V, Rated output voltage 12 – 250 V

General specifications

PRODUCT NAME	Eaton Moeller® series STN Control transformer
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CATALOG NUMBER	204981
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MODEL CODE	STN0,315(*/*)
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PRODUCT LENGTH/DEPTH	111 mm
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PRODUCT HEIGHT	121 mm
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PRODUCT WIDTH	106 mm
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PRODUCT WEIGHT	3.5 kg
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CERTIFICATIONS	VDE 0570 Part 2-2 VDE 0113, VDE 0100 Part 410 IEC/EN 61558-2-2 CSA-C22.2 No. 66.1-06 UL Recognized Certified by UL for use in Canada UL 506 UL Category Control No.: XPTQ2, XPTQ8 CE CSA-C22.2 No. 66 CSA-C22.2 No. 66.2-06 IEC/EN 60204-1, ÖVE-EN 13 UL File No.: E167225 UL report applies to both US and Canada UL5085-1 UL 5085-2
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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
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Product specifications

TYPE	Single-phase STN control transformers
FEATURES	Separate windings Fully Vacuum-impregnated
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

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
DRAWINGS	eaton-general-control-stn-control-transformer-dimensions-010.eps
ECAD MODEL	DA-CE-ETN.STN0,315(x_x)
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 204981

	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	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	690 V
PRIMARY VOLTAGE 1 - MIN	100 V
PRIMARY VOLTAGE 10 - MAX	0 V
PRIMARY VOLTAGE 10 - MIN	0 V
PRIMARY VOLTAGE 2 -	0 V

MAX	
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	91 %
RELATIVE SHORT-CIRCUIT VOLTAGE	5.3 %
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	0.315 VA
SECONDARY VOLTAGE 1 - MAX	250 V
SECONDARY VOLTAGE 1 - MIN	12 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	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	10 W

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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