DATASHEET - STN0,5(400/24)

Control transformer, 0.5 kVA, Rated input voltage 400± 5 % V, Rated output voltage 24 V

STN0,5(400/24) 221516



Part no.

General specifications	
Product name	Eaton Moeller® series STN Control transformer
Part no.	STN0,5(400/24)
EAN	4015082215163
Product Length/Depth	120 millimetre
Product height	133 millimetre
Product width	121 millimetre
Product weight	5.139 kilogram
Certifications	CSA-C22.2 No. 66.2-06 IEC/EN 61558-2-2 VDE 0570 Part 2-2 CSA-C22.2 No. 66.1-06 IEC/EN 60204-1, ÖVE-EN 13 UL File No.: E167225 CSA-C22.2 No. 66 UL report applies to both US and Canada CE UL 5085-2 UL5085-1 UL 506 Certified by UL for use in Canada UL Recognized VDE 0113, VDE 0100 Part 410 UL Category Control No.: XPTQ2, XPTQ8
Product Tradename	STN
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
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	IPOO
Duty factor	100 %
Insulation class	B
Primary tapping	± 5 %
Product category	Single-phase control transformers ST
Suitable for	Branch circuits, (UL/CSA)
Туре	Single-phase STN control transformers
Electrical rating	
Efficiency	93 %
No-load losses	15 W
Rated frequency - min	50 Hz
Rated frequency - max	60 Hz
Rated power	0.5 V-A
Relative short-circuit voltage	4.1 %
Short-circuit losses	27 W
Short-time rating	0.88 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		No		
Built as isolating transformer		No		
Built as energy saving transformer		No		
Primary voltage 1	V	400 - 400		
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		

Rated apparent power VA 50 Power W Power consumption in standby mode W 7 Power consumption in standby mode W 8 Syne of insulation material according to IEC 85 M 8 Short-circuit-proof M No Relative short circuit voltage M 10 Vidth mm 121 Aeight mm 133 Depree of protection (IP) M 100 Ristable for mounting on PCB M No Modular version M No			
Power Me Power consumption in standby mode MW 7 Power consumption in standby mode MW 8 Stope of insulation material according to IEC 85 MM 8 Short-circuit-proof MM 10 Relative short circuit voltage MM 12 Vidth mm 12 Aeight mm 13 Depth mm 10 Ring core MM MO Shatble for mounting on PCB MM MI Audure version MM MI	Secondary voltage 10	V	0 - 0
Power consumption in standby mode W 7 isyne of insulation material according to IEC 85 B B Short-circuit-proof M No Relative short circuit voltage M No Vidth M 12 Aeight mm 33 Depth M PO Naing core M PO Suitable for mounting on PCB M No	Rated apparent power	VA	500
Type of insulation material according to IEC 85 B Short-circuit-proof No Relative short circuit voltage % Nidth mm Height mm Depth mm Relative short circuit voltage M Depth mm Sing core Mo Suitable for mounting on PCB M Modular version M	Power	W	
Short-circuit-proof Relative short circuit voltage	Power consumption in standby mode	W	7
Relative short circuit voltage % % Vidth mm 121 Height mm 133 Depth mm 10 Degree of protection (IP) Mm 10 Suitable for mounting on PCB Mm No Modular version Mm No	Type of insulation material according to IEC 85		В
Vidth mm 121 Aeight mm 133 Depth mm 120 Degree of protection (IP) mm 120 Ning core Modelant Modelant Suitable for mounting on PCB Modelant No	Short-circuit-proof		No
Heightmm133Depthmm120Degree of protection (IP)MmI20Ring coreMmNoSuitable for mounting on PCBMmNoModular versionMmNo	Relative short circuit voltage	%	4.1
Depth mm 120 Degree of protection (IP) IPO IPO Ning core No No Suitable for mounting on PCB ICO No Modular version ICO ICO	Width	mm	121
Degree of protection (IP) IPO Ring core No Suitable for mounting on PCB IMO Modular version IMO	Height	mm	133
Ring core No Suitable for mounting on PCB Image: Constant of the second	Depth	mm	120
Suitable for mounting on PCB Mo Modular version Mo	Degree of protection (IP)		IPOO
Modular version No	Ring core		No
	Suitable for mounting on PCB		No
Conductor material Copper	Modular version		No
	Conductor material		Copper