

Control transformer, 0.5 kVA, Rated input voltage 400± 5 % V, Rated output voltage 230 V



Powering Business Worldwide™

Part no. **STI0,5(400/230)**  
**046641**

<b>General specifications</b>	
Product name	Eaton Moeller® series STI Control transformer
Part no.	STI0,5(400/230)
EAN	4015080466413
Product Length/Depth	120 millimetre
Product height	119 millimetre
Product width	121 millimetre
Product weight	6.64 kilogram
Certifications	CSA-C22.2 No. 66.2-06 UL 506 UL Recognized UL report applies to both US and Canada VDE 0113, VDE 0100 Part 410 UL 5085-2 UL File No.: E167225 UL Category Control No.: XPTQ2, XPTQ8 CSA-C22.2 No. 66 UL5085-1 VDE 0570 Part 2-2 IEC/EN 61558-2-2/2-4/2-6 Certified by UL for use in Canada CE IEC/EN 61558-2-2 VDE 0570 Part 2-4 (isolating transformer) IEC/EN 60204-1, ÖVE-EN 13 VDE 0570 Part 2-6 (safety transformers) CSA-C22.2 No. 66.1-06
Product Tradename	STI
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
<b>Features &amp; Functions</b>	
Features	Separate windings Reinforced insulation Fully Vacuum-impregnated
<b>General information</b>	
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	IP00
Duty factor	100 %
Insulation class	B
Primary tapping	± 5 %
Product category	Single-phase control transformers ST
Suitable for	Branch circuits, (UL/CSA)
Type	Single-phase control, isolating and safety transformer
<b>Electrical rating</b>	
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	3.9 %
Short-circuit losses	24 W

Short-time rating		1.6 kV-A
Voltage rating - max		600 V
<b>Design verification</b>		
Equipment heat dissipation, current-dependent Pvid		0 W
Heat dissipation capacity Pdis		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		39 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		Yes
Built as isolating transformer		Yes
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	230 - 230
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
Secondary voltage 10	V	0 - 0
Rated apparent power	VA	500
Power	W	
Power consumption in standby mode	W	7
Type of insulation material according to IEC 85		B
Short-circuit-proof		No
Relative short circuit voltage	%	3.9
Width	mm	121
Height	mm	119
Depth	mm	120
Degree of protection (IP)		IP00
Ring core		No
Suitable for mounting on PCB		No
Modular version		No
Conductor material		Copper