

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

| General specifications | |
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| 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 |
| Features & Functions | |
| Features | Separate windings Reinforced insulation 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 | 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 |
| 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 | 3.9 % |
| Short-circuit losses | 24 W |

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| Short-time rating | | 1.6 kV-A |
| Voltage rating - max | | 600 V |
| Design verification | | |
| 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

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| 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 |

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| 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 |