

**Control transformer, 3 kVA, Rated input voltage 400± 5 % V, Rated output voltage 230 V**

**Part no. STI3,0(400/230)  
035260**

| <b>General specifications</b>       |  |
|-------------------------------------|--|
| Product name                        | Eaton Moeller® series STI Control transformer  |
| Part no.                            | STI3,0(400/230)  |
| EAN                                 | 4015080352600  |
| Product Length/Depth                | 170 millimetre   |
| Product height                      | 255 millimetre   |
| Product width                       | 230 millimetre   |
| Product weight                      | 27.588 kilogram  |
| Certifications                      | VDE 0570 Part 2-4 (isolating transformer)<br>IEC/EN 60204-1, ÖVE-EN 13<br>IEC/EN 61558-2-2/2-4/2-6<br>VDE 0570 Part 2-2<br>CE<br>CSA-C22.2 No. 66.1-06<br>CSA-C22.2 No. 66.2-06<br>CSA-C22.2 No. 66<br>UL 5085-2<br>VDE 0113, VDE 0100 Part 410<br>UL File No.: E167225<br>UL report applies to both US and Canada<br>UL Category Control No.: XPTQ2, XPTQ8<br>UL5085-1<br>UL Recognized<br>VDE 0570 Part 2-6 (safety transformers)<br>UL 506<br>IEC/EN 61558-2-2<br>Certified by UL for use in Canada |
| 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<br>Reinforced insulation<br>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                          | 97 %   |
| No-load losses                      | 30 W   |
| Rated frequency - min               | 50 Hz  |
| Rated frequency - max               | 60 Hz  |
| Rated power                         | 3 V-A  |
| Relative short-circuit voltage      | 2.1 %  |
| Short-circuit losses                | 55 W   |

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| Short-time rating  |  | 11.5 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                               |  | 85 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 | 3000   |
| Power   | W  |        |
| Power consumption in standby mode               | W  | 28     |
| Type of insulation material according to IEC 85 |    | B      |
| Short-circuit-proof                             |    | No     |
| Relative short circuit voltage                  | %  | 2.1    |
| Width   | mm | 230    |
| Height  | mm | 255    |
| Depth   | mm | 170    |
| Degree of protection (IP)                       |    | IP00   |
| Ring core                                       |    | No     |
| Suitable for mounting on PCB                    |    | No     |
| Modular version                                 |    | No     |
| Conductor material                              |    | Copper |