



**Control transformer, 0.2 kVA, Rated input voltage 50 – 950 ± 5 % V, Rated output voltage 12 – 1000 V**

**Part no.** STZ0,2(\*/\*)  
**Catalog No.** 914764  
**Alternate Catalog No.** -

## Delivery program

|  |     |  |
|--|-----|--|
| Product range  |     | Single-phase control transformers ST...                          |
| Basic function   |     | Single-phase control, isolating and safety transformers STI, STZ |
| Rated input voltage  | V   | 50 – 950 ± 5 %   |
| Rated output voltage   | V   | 12 – 1000  |
| Rated power  | kVA | 0.2  |
| Short-time rating  | kVA | 0.44   |
| Cu factor 0,65   |     |  |
| <b>Notes</b>   |     |  |
| <ul style="list-style-type: none"> <li>Transformers with the rated output voltages ≤ 50 V can be used as safety transformers to IEC/EN 61558.</li> <li>UL/CSA only up to primary and secondary 600 V (incl. tapping).</li> </ul> |     |  |
| When ordering, the type reference must include the following details:  |     |  |
| <b>STZ0,06(*/*)</b>  |     |  |
| 1st wildcard ≙ Nominal input voltage   |     |  |
| 2nd wildcard ≙ Rated output voltage  |     |  |
| <b>Ordering example</b>  |     |  |
| <ul style="list-style-type: none"> <li>Desired part no. STZ0,06</li> <li>Desired rated input voltage 230 V</li> <li>Desired rated output voltage 12 V</li> </ul>   |     |  |
| The correct type reference is  |     |  |
| <b>STZ0,06(230/12)</b>   |     |  |
| Additional tappings → 931897   |     |  |

## Technical data

### General

|                     |  |   |
|---------------------|--|---|
| <b>Standards</b>    |  |   |
| Built and tested to |  | IEC/EN 61558-2-2/2-4/2-6<br>VDE 0570 Part 2-2<br>VDE 0570 Part 2-6 (safety transformers)<br>VDE 0570 Part 2-4 (isolating transformer) |
| Suitable for use to |  | IEC/EN 60204-1, ÖVE-EN 13<br>VDE 0113, VDE 0100 Part 410  |
| Ambient temperature |  | -25 - 40  |

### Characteristics

|                          |      |            |
|--------------------------|------|------------|
| Terminations             |      | ● (< 63 A) |
| Connection lugs          |      | ● (< 63 A) |
| Insulation class         |      | B          |
| Rated frequency          | Hz   | 50 - 60    |
| Primary tapping          |      | ± 5 %      |
| Degree of Protection     |      | IP00       |
| Separate windings        |      | ●          |
| Fully vacuum-impregnated |      | ●          |
| Reinforced insulation    |      | ●          |
| Rated duty factor        | % DF | 100        |

### Electrical characteristics

|      |  |   |
|------|--|---|
| Note |  | The following applies for the no-load loss, short-circuit loss (copper losses), short-circuit voltage and efficiency values: all details relate to a temperature of 20 °C |
|------|--|---|

|                      |    |      |
|----------------------|----|------|
| Total weight         | kg | 3    |
| No-load losses       | W  | 11   |
| Short-circuit losses | W  | 17   |
| Shortcircuit voltage | %  | 6.6  |
| Efficiency           |    | 0.88 |

## Design verification as per IEC/EN 61439

| Technical data for design verification   |            |    |  |
|--|------------|----|--|
| Rated operational current for specified heat dissipation   | $I_n$      | A  | 0  |
| Heat dissipation per pole, current-dependent   | $P_{vid}$  | W  | 0  |
| Equipment heat dissipation, current-dependent  | $P_{vid}$  | W  | 0  |
| Static heat dissipation, non-current-dependent   | $P_{vs}$   | W  | 28   |
| Heat dissipation capacity  | $P_{diss}$ | W  | 0  |
| Operating ambient temperature min.   |            | °C | -25  |
| Operating ambient temperature max.   |            | °C | 40   |
| IEC/EN 61439 design verification   |            |    |  |
| 10.2 Strength of materials and parts   |            |    |  |
| 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties   |            |    |  |
| 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 7.0

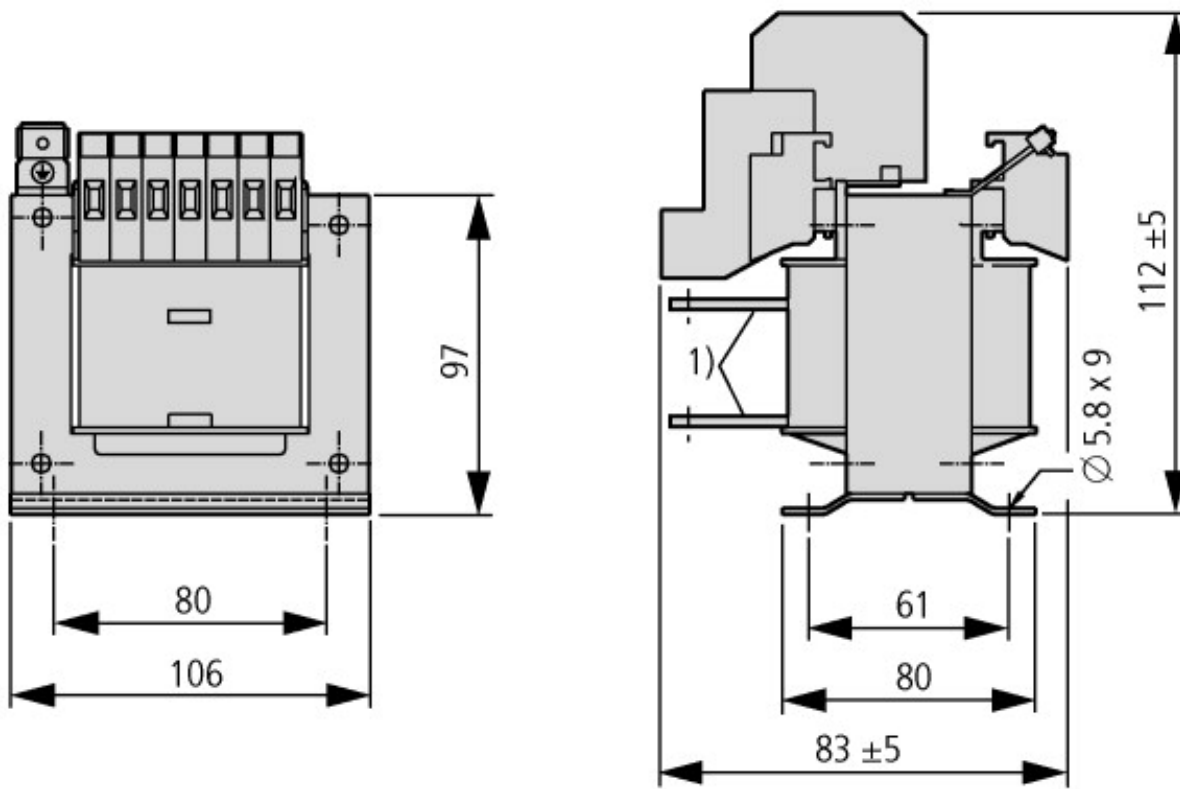
| Low-voltage industrial components (EG000017) / One-phase control transformer (EC002486)   |   |  |          |
|---|---|--|----------|
| Electric engineering, automation, process control engineering / Transformer, converter, coil / Control transformer / One-phase control transformer (ecl@ss10.0.1-27-03-13-02 [AAB620015]) |   |  |          |
| Built as safety transformer   |   |  | Yes      |
| Built as isolating transformer  |   |  | Yes      |
| Built as energy saving transformer  |   |  | No       |
| Primary voltage 1   | V |  | 50 - 950 |
| Primary voltage 2   | V |  | 50 - 950 |
| Primary voltage 3   | V |  | 50 - 950 |
| Primary voltage 4   | V |  | 50 - 950 |
| Primary voltage 5   | V |  | 50 - 950 |
| Primary voltage 6   | V |  | 50 - 950 |

|   |    |           |
|---|----|-----------|
| 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  | 12 - 1000 |
| Secondary voltage 2                     | V  | 12 - 1000 |
| Secondary voltage 3                     | V  | 12 - 1000 |
| Secondary voltage 4                     | V  | 12 - 1000 |
| Secondary voltage 5                     | V  | 12 - 1000 |
| Secondary voltage 6                     | V  | 12 - 1000 |
| 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 | 200       |
| Type of insulation material acc. IEC 85 |    | B         |
| Short-circuit-proof                     |    | No        |
| Relative short circuit voltage          | %  | 6.6       |
| Width                                   | mm | 106       |
| Height                                  | mm | 124       |
| Depth                                   | mm | 83        |
| Degree of protection (IP)               |    | IP00      |
| Ring core                               |    | No        |
| Suitable for mounting on PCB            |    | No        |
| Modular version                         |    | No        |
| Conductor material                      |    | Copper    |

## Approvals

|                                      |  |   |
|--------------------------------------|--|---|
| Product Standards                    |  | UL 506; UL5085-1; UL 5085-2; CSA-C22.2 No. 66; CSA-C22.2 No. 66.1-06; CSA-C22.2 No. 66.2-06; IEC/EN 61558-2-2; CE marking |
| UL File No.                          |  | E167225   |
| UL Category Control No.              |  | XPTQ2, XPTQ8  |
| CSA File No.                         |  | UL report applies to both US and Canada   |
| CSA Class No.                        |  | -   |
| North America Certification          |  | UL recognized, certified by UL for use in Canada  |
| Specially designed for North America |  | No  |
| Suitable for                         |  | Branch circuits   |
| Max. Voltage Rating                  |  | 600 V AC  |
| Degree of Protection                 |  | IEC: IP00, UL/CSA Type: -   |

## Dimensions



- ① Connection lugs
- ② With STI/STZ0.06 ... 0.16 ground connection at bottom
- ③ The higher rated operating voltage applies

## Assets (links)

### Declaration of CE Conformity

00003100