

**Three-phase control isolating safety transformer, 0.25 kVA, Rated input voltage 50 – 950 ± 5 % V, Rated output voltage 18.5 – 1000 V**

**Part no. DTZ0,25(\*/\*)\*  
914801**

| <b>General specifications</b>  |   |
|--|---|
| Product name   | Eaton Moeller® series DTZ Control transformer   |
| Part no.   | DTZ0,25(*/*)*   |
| Product Length/Depth   | 77 millimetre   |
| Product height   | 154 millimetre  |
| Product width  | 155 millimetre  |
| Product weight   | 3.6 kilogram  |
| Certifications   | UL report applies to both US and Canada<br>CSA-C22.2 No. 66.2-06<br>UL Category Control No.: XPTQ2, XPTQ8<br>UL File No.: E167225<br>UL 5085-2<br>UL5085-1<br>CSA-C22.2 No. 66<br>Certified by UL for use in Canada<br>CSA-C22.2 No. 66.1-06<br>IEC/EN 61558-2-2<br>UL Recognized<br>UL 506<br>CE |
| Product Tradename  | DTZ   |
| Product Type   | Control transformer   |
| Product Sub Type   | None  |
| <b>General information</b>   |   |
| Ambient operating temperature - min  | -25 °C  |
| Ambient operating temperature - max  | 40 °C   |
| Degree of protection   | IP00<br>NEMA Other  |
| Product category   | Three-phase DTZ control transformers  |
| Suitable for   | Branch circuits, (UL/CSA)   |
| <b>Electrical rating</b>   |   |
| Rated power  | 250 V-A   |
| Relative short-circuit voltage   | 8.5 %   |
| Short-time rating  | 0.5 kV-A  |
| Voltage rating - max   | 600 V   |
| <b>Design verification</b>   |   |
| Equipment heat dissipation, current-dependent P <sub>vid</sub>                   | 0 W   |
| Heat dissipation capacity P <sub>diss</sub>                                      | 0 W   |
| Heat dissipation per pole, current-dependent P <sub>vid</sub>                    | 0 W   |
| Rated operational current for specified heat dissipation (I <sub>n</sub> )       | 0 A   |
| Static heat dissipation, non-current-dependent P <sub>vs</sub>                   | 36 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.  |

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| 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) / Three-phase control transformer (EC002485)   |    |             |
| Electric engineering, automation, process control engineering / Transformer, converter, coil / Control transformer / Three-phase control transformer (ec!@ss13-27-03-13-01 [AAB619020]) |    |             |
| 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  | 18.5 - 1000 |
| Secondary voltage 2   | V  | 18.5 - 1000 |
| Secondary voltage 3   | V  | 18.5 - 1000 |
| Secondary voltage 4   | V  | 18.5 - 1000 |
| Secondary voltage 5   | V  | 18.5 - 1000 |
| Secondary voltage 6   | V  | 18.5 - 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       |
| Wiring system   |    | Other       |
| Rated power   | VA | 250         |
| Type of insulation material according to IEC 85   |    | B           |
| Short-circuit-proof   |    | No          |
| Relative short circuit voltage  | %  | 8.5         |
| Conductor material  |    | Copper      |
| Width   | mm | 155         |
| Height  | mm | 154         |
| Depth   | mm | 77          |
| Degree of protection (IP)   |    | IP00        |
| Degree of protection (NEMA)   |    | Other       |