# **DATASHEET - DTZ12,5(\*/\*)\***



Three-phase control isolating safety transformer, 12.5 kVA, Rated input voltage 50 - 950  $\pm$  5 % V, Rated output voltage 18.5 - 1000 V



Part no. DTZ12,5(\*/\*)\*
Catalog No. 914813
Alternate Catalog -

**Delivery program** 

71 0		
Product range		Three-phase DTZ control transformers
Rated input voltage	V	$50 - 950 \pm 5 \%$
Rated output voltage	V	18.5 – 1000
Rated power	kVA	12.5
Short-time rating	kVA	31
Cu factor 35 00		

#### Notes

- Enclosure IP65 on request.

When ordering, the part no. must include the following details:

#### DTZ0.1(\*/\*)\*

1. Wildcard ≙ Nominal input voltage

2nd Wildcard ≙ Nominal output voltage

3rd Wildcard 

Configuration

### Ordering example

- · desired part no. DTZ0.1
- Desired rated input voltage 200 V
- Desired rated output voltage 18.5 V
- Desired configuration Dy(n)5

The correct part no. is

### DTZ0.1(200/18.5)DY(N)5

Additional tappings → 931897

# Design verification as per IEC/EN 61439

besign vermeation as per 120/214 01755			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0
Heat dissipation per pole, current-dependent	$P_{\text{vid}}$	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	$P_{vs}$	W	395
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	40
EC/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.

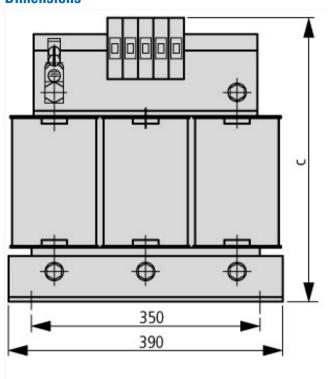
## **Technical data ETIM 7.0**

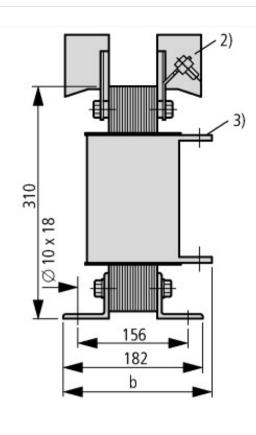
Low-voltage industrial components (EG000017) / Three-phase control transformer (EC002485) Electric engineering, automation, process control engineering / Transformer, converter, coil / Control transformer / Three-phase control transformer (ecl@ss10.0.1-27-03-13-01 [AAB619015]) Built as safety transformer Yes Built as isolating transformer Yes Built as energy saving transformer No Primary voltage 1 ٧ 50 - 950 Primary voltage 2 ٧ 50 - 950 Primary voltage 3 50 - 950 50 - 950 Primary voltage 4 50 - 950 Primary voltage 5 Primary voltage 6 50 - 950 Primary voltage 7 0 - 0 Primary voltage 8 ٧ 0 - 0 Primary voltage 9 ٧ 0 - 0 Primary voltage 10 0 - 0 Secondary voltage 1 ٧ 18.5 - 1000 Secondary voltage 2 18.5 - 1000 Secondary voltage 3 18.5 - 1000 Secondary voltage 4 18.5 - 1000 ٧ 18.5 - 1000 Secondary voltage 5 ٧ 18.5 - 1000 Secondary voltage 6 ٧ Secondary voltage 7 0 - 0 0 - 0 Secondary voltage 8 ٧ ٧ Secondary voltage 9 0 - 0 Secondary voltage 10 ٧ 0 - 0 Wiring system Other VA 12500 Rated power Type of insulation material acc. IEC 85 В Short-circuit-proof No % Relative short circuit voltage 4 Conductor material Copper Width 390 mm Height 374 Depth 231 mm Degree of protection (IP) IP00 Degree of protection (NEMA) Other

### **Approvals** Product Standards IEC/EN 61558-2-2; CE marking UL File No. UL Category Control No. XPTQ2, XPTQ8 CSA File No. CSA Class No. North America Certification Specially designed for North America No Suitable for Branch circuits Max. Voltage Rating 600 V AC

## **Dimensions**

Degree of Protection





IEC: IP00, UL/CSA Type: -

12	b	С
18.5 V		-
24 V	231	374
42 V	231	374
110 V	214	374
230-690 V	214	374

- 1) The higher rated operating voltage applies
- ② Terminals ≤ 25 A ③ Connection lugs > 63 A

# **Assets (links)**

**Declaration of CE Conformity** 

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