

**Three-phase control isolating safety transformer, 1.6 kVA, Rated input voltage 50 – 950 ± 5 % V, Rated output voltage 18.5 – 1000 V**

**Part no. DTZ1,6(\*/\*)\*  
914806**

<b>General specifications</b>		
Product name		Eaton Moeller® series DTZ Control transformer
Part no.		DTZ1,6(*/*)*
Product Length/Depth		114 millimetre
Product height		269 millimetre
Product width		230 millimetre
Product weight		18.5 kilogram
Certifications		UL 506 UL Category Control No.: XPTQ2, XPTQ8 CE CSA-C22.2 No. 66.2-06 UL 5085-2 CSA-C22.2 No. 66 UL5085-1 Certified by UL for use in Canada UL report applies to both US and Canada IEC/EN 61558-2-2 CSA-C22.2 No. 66.1-06 UL File No.: E167225 UL Recognized
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 NEMA Other
Product category		Three-phase DTZ control transformers
Suitable for		Branch circuits, (UL/CSA)
<b>Electrical rating</b>		
Rated power		1600 V·A
Relative short-circuit voltage		3 %
Short-time rating		3.5 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>		115 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

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	1600
Type of insulation material according to IEC 85		B
Short-circuit-proof		No
Relative short circuit voltage	%	3
Conductor material		Copper
Width	mm	230
Height	mm	269
Depth	mm	114
Degree of protection (IP)		IP00
Degree of protection (NEMA)		Other