## DATASHEET - STN0,1(400/230)



Control transformer, 0.1 kVA, Rated input voltage 400 $\pm$  5 % V, Rated output voltage 230 V



Part no.STN0,1(400/230)Catalog No.204942Alternate CatalogSTN0P1-I2-G2No.No.

#### **Delivery program**

Product range		Single-phase control transformers ST
Basic function		Single-phase STN control transformers
Rated input voltage	V	400±5%
Rated output voltage	V	230
Rated power	kVA	0.1
Short-time rating	kVA	0.16
Terminal diagram / contact assignment		
Cu factor 0,30		

# Technical data

	IEC/EN 61558-2-2 VDE 0570 Part 2-2
	IEC/EN 60204-1, ÖVE-EN 13 VDE 0113, VDE 0100 Part 410
	-25 - 40
	● (< 115 A)
	● (> 115 A)
	В
Hz	50 - 60
	± 5 %
	IP00
	•
	•
% DF	100
	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 $^{\circ}\mathrm{C}$
kg	1.5
W	7
W	15
%	10
	0.84
	% DF kg W W

#### Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	0
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	22
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	40

C/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 observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

#### **Technical data ETIM 8.0**

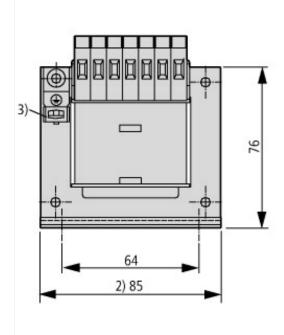
Low-voltage industrial components (EG000017) / One-phase control transformer (EG	Low-voltage industrial components (EG000017) / One-phase control transformer (EC002486)		
Electric engineering, automation, process control engineering / Transformer, conve	erter, coil / Control transf	ormer / One-phase control transformer (ecl@ss10.0.1-27-03-13-02 [AAB620015])	
Built as safety transformer		No	
Built as isolating transformer		No	
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	
Secondary voltage 8	V	0 - 0	
Secondary voltage 9	V	0 - 0	
Secondary voltage 10	V	0 - 0	
Rated apparent power	VA	100	

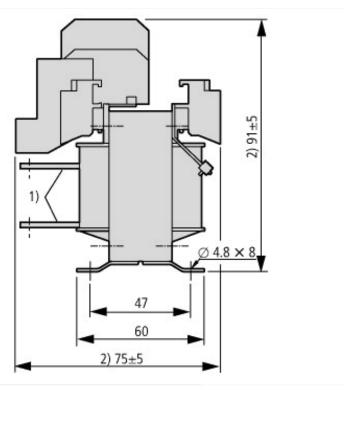
Type of insulation material according to IEC 85		В
Short-circuit-proof		No
Relative short circuit voltage	%	10
Width	mm	85
Height	mm	91
Depth	mm	75
Degree of protection (IP)		IP00
Ring core		No
Suitable for mounting on PCB		No
Modular version		No
Conductor material		Copper

## **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.	ΧΡΤΩ2, ΧΡΤΩ8
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**





Connection lugs
Maximum space requirement
with STN0,06-02 ground connection at bottom