

Control transformer, 100VA, 1p, non-standard voltage

Powering Business Worldwide™

Part no. STN0,1(*/*) Article no. 204939 Catalog No.

Delivery program

Product range		Single-phase control transformers ST
Basic function		Single-phase STN control transformers
Rated input voltage	V	100 - 690 ± 5 %
Rated output voltage	V	12 – 250
Rated power	kVA	0.1
Short-time rating	kVA	0.16
Cu factor 0,32		

Notes

- The STN transformers are suitable for use in control circuits to VDE 0113 or IEC/EN 60204.
- UL/CSA only up to primary and secondary 600 V (incl. tappings).
- When ordering, the type reference must include the following details:

STN0,1(*/*)

1st wildcard Anominal input voltage

2nd wildcard Rated output voltage

Ordering example

- Desired part no.: STN0,1
- Desired part no.: 31NO,1
 Desired rated input voltage 200 V
 Desired rated output voltage 18.5 V

The correct type reference is

STN0,1(200/18,5)

Transformer-protective circuit-breaker →#088907

Notes

• UL/CSA only up to primary and secondary 600 V (incl. tappings).

Technical data

General

No-load losses

Short-circuit losses

Shortcircuit voltage

Conoral		
Standards		
Built and tested to		IEC/EN 61558-2-2 VDE 0570 Part 2-2
Suitable for use to		IEC/EN 60204-1, ÖVE-EN 13 VDE 0113, VDE 0100 Part 410
Ambient temperature		-25 - 40
Characteristics		
Terminations		● (< 115 A)
Connection lugs		• (> 115 A)
Insulation class		В
Rated frequency	Hz	50 - 60
Primary tapping		± 5 %
Degree of Protection		IP00
Separate windings		•
Fully vacuum-impregnated		•
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 $^\circ\text{C}$
Total weight	kg	1.5

W

W

7

15

10

Efficiency 0.84

Design verification as per IEC/EN 61439

Design verincation as per 1EG/EM 01433			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	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	22
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 6.0

Low-voltage industrial components (EG000017) / One-phase control transformer (EC002486)

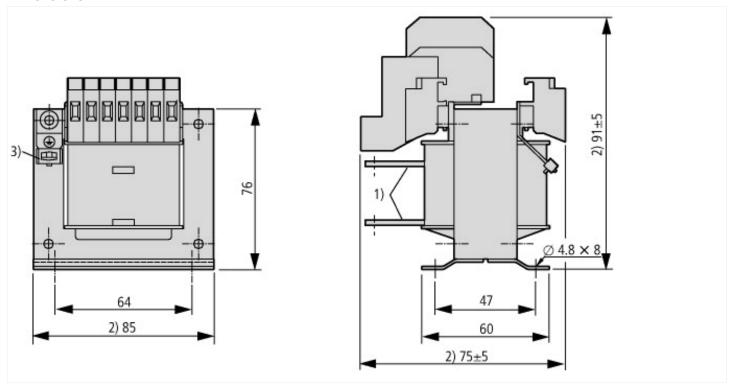
Electric engineering, automation, process control engineering / Transformer, converter, coil / Control transformer / One-phase control transformer (ecl@ss8.1-27-03-13-02 [AAB620012])		
Built as safety transformer		No
Built as isolating transformer		No
Built as energy saving transformer		No
Primary voltage 1	V	100 - 690
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	/	12 - 250
Secondary voltage 2	V	/	0 - 0
Secondary voltage 3	V	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	V	0 - 0
Secondary voltage 9	V	V	0 - 0
Secondary voltage 10	V	V	0 - 0
Rated apparent power	V	VΑ	100
Type of insulation material acc. IEC 85			В
Short-circuit-proof			No
Relative short circuit voltage	9	%	10
Width	n	mm	85
Height	n	mm	91
Depth	n	mm	75
Degree of protection (IP)			IP00
Ring core			No
Suitable for mounting on PCB			No
Modular version			No

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



 $\textcircled{1}_{\text{Connection lugs}}$

(2) Maximum space requirement

with STN0,06-02 ground connection at bottom