



Control transformer, 0.63 kVA, Rated input voltage 100 – 690 ± 5 % V, Rated output voltage 12 – 250 V

Part no. STN0,63(*/*)
Catalog No. 204987
Eaton 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	0.63
Short-time rating	kVA	1.51
Cu factor 1,35		
Notes		
<ul style="list-style-type: none"> 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 \triangleq Nominal input voltage		
2nd wildcard \triangleq Rated output voltage		
Ordering example		
<ul style="list-style-type: none"> Desired part no.: STN0,1 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		

Technical data

General

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		B
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 °C
Total weight	kg	7.1
No-load losses	W	21
Short-circuit losses	W	32
Shortcircuit voltage	%	3.8

Efficiency			0.93
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Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	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	53
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			
10.2.3.1 Verification of thermal stability of enclosures			
10.2.3.2 Verification of resistance of insulating materials to normal heat			
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			
10.2.4 Resistance to ultra-violet (UV) radiation			
10.2.5 Lifting			
10.2.6 Mechanical impact			
10.2.7 Inscriptions			
10.3 Degree of protection of ASSEMBLIES			
10.4 Clearances and creepage distances			
10.5 Protection against electric shock			
10.6 Incorporation of switching devices and components			
10.7 Internal electrical circuits and connections			
10.8 Connections for external conductors			
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			
10.9.3 Impulse withstand voltage			
10.9.4 Testing of enclosures made of insulating material			
10.10 Temperature rise			
10.11 Short-circuit rating			
10.12 Electromagnetic compatibility			
10.13 Mechanical function			

Technical data ETIM 7.0

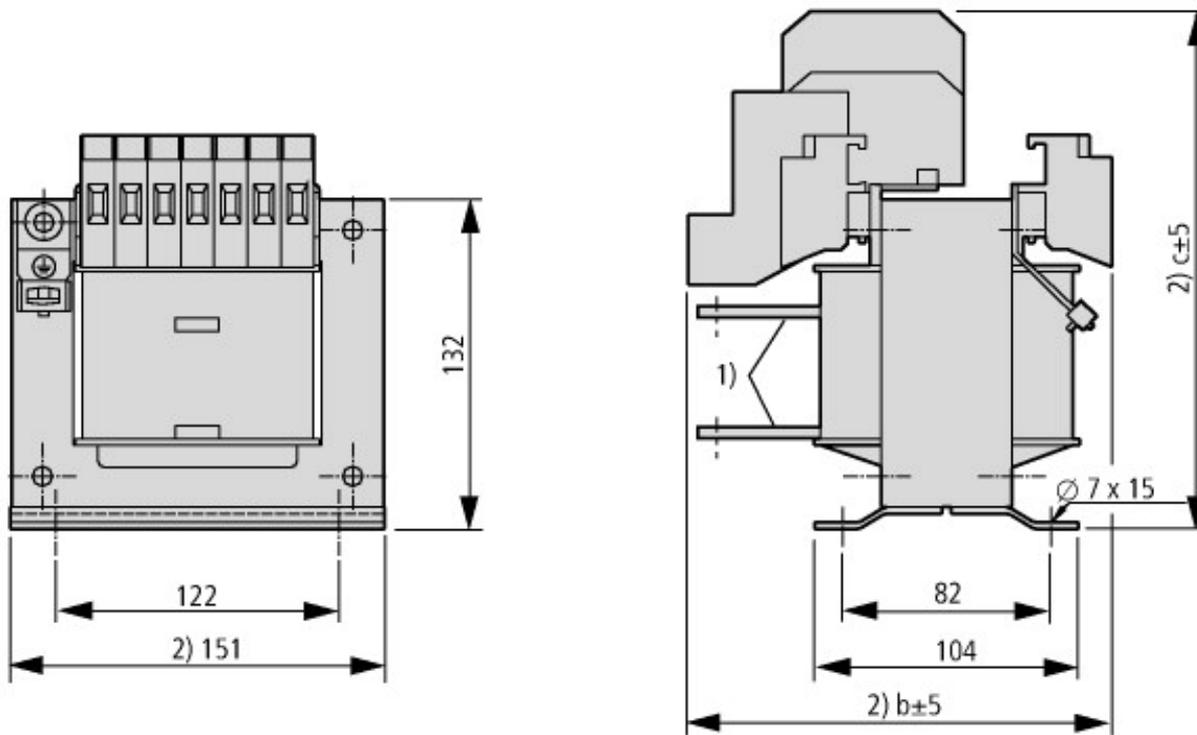
Low-voltage industrial components (EG000017) / One-phase control transformer (EC002486)			
Electric engineering, automation, process control engineering / Transformer, converter, coil / Control transformer / One-phase control transformer (ecl@ss10.0.1-27-03-13-02 [AAB620015])			
Built as safety transformer			No
Built as isolating transformer			No
Built as energy saving transformer			No
Primary voltage 1		V	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	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	630
Type of insulation material acc. IEC 85		B
Short-circuit-proof		No
Relative short circuit voltage	%	3.8
Width	mm	151
Height	mm	211
Depth	mm	100
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.		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



	b	c
12 V	121	157
24 V	121	157
42 V	107	145
110 V	107	145
200/230 V	107	145

- ① Connection lugs
- ② Maximum space requirement
- ③ with STN0,06-02 ground connection at bottom