DATASHEET - STN0,06(230/230)



Control transformer, 230 V, 0.06 kVA

STN0,06(230/230) Part no. Catalog No. 204934 STNP06-G2-G2 Alternate Catalog No.



Delivery program

Product range		Single-phase control transformers ST
Basic function		Single-phase STN control transformers
Rated output voltage	V	230
Rated power	kVA	0.06
Terminal diagram / contact assignment		
Cu factor 0,20		

Technical data

Characteristics

Separate windings		•
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 $^{\circ}\text{C}$
No-load losses	W	7
Short-circuit losses	W	10

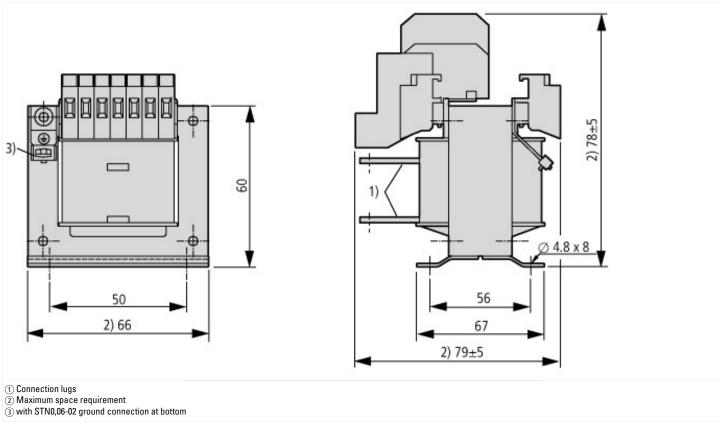
Design verification as per IEC/EN 61439			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	17
Heat dissipation capacity	P _{diss}	W	0
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 7.0

No No No No No No No No			
Suit as safety transformer No Suit as safety transformer No Suit as safety transformer No Vinary voltage 1 V 20 - 230 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 7 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 14 V 0 - 0 Secondary voltage 2 V 0 - 0 Secondary voltage 3 V 0 - 0 Secondary voltage 1 V 0 - 0 Secondary voltage 3 V 0 - 0 Secondary voltage 4 V 0 - 0 Secondary voltage 6 V 0 - 0 Secondary voltage 7 V 0 - 0 Secondary voltage 8	Low-voltage industrial components (EG000017) / One-phase control transformer (EC00246)	36)	
Bulk as isolating transformer No Sulk as energy saving transformer No Trimany voltage 1 V 230 - 230 Vrimany voltage 3 V 0 - 0 Vrimany voltage 4 V 0 - 0 Vrimany voltage 5 V 0 - 0 Vrimany voltage 6 V 0 - 0 Vrimany voltage 7 V 0 - 0 Vrimany voltage 8 V 0 - 0 Vrimany voltage 9 V 0 - 0 Vrimany voltage 1 V 0 - 0 Viscondary voltage 2 V 0 - 0 Viscondary voltage 3 V 0 - 0 Viscondary voltage 4 V 0 - 0 Viscondary voltage 8 V 0 - 0 Viscondary voltage 8 V 0 - 0 Viscondary voltage 9 V 0 - 0 V	Electric engineering, automation, process control engineering / Transformer, converter, o	coil / Control transf	former / One-phase control transformer (ecl@ss10.0.1-27-03-13-02 [AAB620015])
Sult as energy saving transformer No Primary voltage 1 V 239-230 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 10 V 0 - 0 Secondary voltage 3 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 6 V 0 - 0 Secondary voltage 8 V 0 - 0 Secondary voltage 9 V 0 - 0 Secondary voltage 9 V 0 - 0	Built as safety transformer		No
Frimary voltage 1 V 239 - 239 Frimary voltage 2 V 0 0 Frimary voltage 3 V 0 0 Frimary voltage 4 V 0 0 Frimary voltage 5 V 0 0 Frimary voltage 6 V 0 0 Frimary voltage 7 V 0 0 Frimary voltage 8 V 0 0 Frimary voltage 9 V 0 0 Frimary voltage 10 V 0 0 Frimary voltage 12 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 1<	Built as isolating transformer		No
Primary voltage 2 V 0 - 0 Primary voltage 3 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	Built as energy saving transformer		No
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 200 - 2 Recondary voltage 12 V 0 - 0 Recondary voltage 3 V 0 - 0 Recondary voltage 3 V 0 - 0 Recondary voltage 4 V 0 - 0 Recondary voltage 5 V 0 - 0 Recondary voltage 6 V 0 - 0 Recondary voltage 7 V 0 - 0 Recondary voltage 8 V 0 - 0 Recondary voltage 9 V 0 - 0 Recondary voltage 10 V 0 - 0 Recondary voltage 10 V 0 - 0 Recondary voltage 10 V 0 - 0 Recondary voltage 1 V 0 - 0 <	Primary voltage 1	V	230 - 230
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 9 V 0 - 0 Primary voltage 10 V 0 - 0 Secondary voltage 1 V 0 - 0 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 8 V 0 - 0 Secondary voltage 8 V 0 - 0 Secondary voltage 9 V 0 - 0 Secondary voltage 9 V 0 - 0 Secondary voltage 10 V 0 - 0 Secondary voltage 10 V 0 - 0 Secondary voltage 10 V 0 - 0	Primary voltage 2	V	0 - 0
Primary voltage 5 V 0 - 0 Primary voltage 6 V 0 - 0 Primary voltage 7 V 0 - 0 Primary voltage 9 V 0 - 0 Primary voltage 10 V 20 - 2 Primary voltage 2 V 0 - 0 Primary voltage 3 V 0 - 0 Primary voltage 4 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 1 V 0 - 0 Prima	Primary voltage 3	V	0 - 0
Primary voltage 6 V 0 - 0 Primary voltage 7 V 0 - 0 Primary voltage 8 V 0 - 0 Primary voltage 10 V 0 - 0 Secondary voltage 1 V 20 - 232 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 Secondary voltage 9 V 0 - 0 Secondary voltage 10 V 0 - 0 Secondary voltage 2 V 0 - 0	Primary voltage 4	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 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 9 V 0 - 0 Secondary voltage 10 V 0 - 0 Selective short circuit-proof VA 60 Selective short circuit-proof M 8 1 Voltage M 9 Selective short circuit-proof M<	Primary voltage 5	V	0 - 0
Primary voltage 8 V 0 - 0 Primary voltage 9 V 0 - 0 Primary voltage 10 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 9 V 0 - 0 Secondary voltage 9 V 0 - 0 Secondary voltage 10 V 0 - 0 Secondary voltage 9 V 0 - 0 Secondary voltage 10 V 0 - 0 Wide primary voltage 10 V 0 - 0 Secondary voltage 2 V <td< td=""><td>Primary voltage 6</td><td>V</td><td>0 - 0</td></td<>	Primary voltage 6	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 9 V 0 - 0 Secondary voltage 9 V 0 - 0 Secondary voltage 10 V 0 - 0 Selective short circuit-proof N 8 Selective short circuit-proof N 1 Vidith m 95 Selective short circuit-proof mm 91 Selective short circuit-proof mm 91 Selective short circuit-proof mm 92 Selective short circuit-proof	Primary voltage 7	V	0 - 0
Primary voltage 10 V 0 - 0 Secondary voltage 1 V 20 - 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 Store of insulation material acc. IEC 85 N N Short-circuit-proof N N Stellative short-circuit voltage % 11 Stellative short-circuit voltage m 9 Stellative short-circuit voltage m 9 Stellative shor	Primary voltage 8	V	0 - 0
Secondary voltage 1	Primary voltage 9	V	0 - 0
No.	Primary voltage 10	V	0 - 0
No No No No No No No No	Secondary voltage 1	V	230 - 230
Secondary voltage 4 V 0 - 0 Secondary voltage 5 V 0 - 0 Secondary voltage 7 V 0 - 0 Secondary voltage 8 V 0 - 0 Secondary voltage 9 V 0 - 0 Secondary voltage 10 VA 60 Secondary voltage 10 voltage	Secondary voltage 2	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 Secondary voltage 10 VA 60 Secondary voltage 12 No No	Secondary voltage 3	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 VA 60 Stated apparent power VA 60 Short-circuit-proof No No Selative short circuit voltage % 11 Width mm 85 Jelgith mm 91 Jelgith mm 79 Jelgith mm 79 Jelgith IPOO Jelgith Mo Jelgith IPOO Jelgith IPOO Jelgith No Jelgith IPOO Jelgith No	Secondary voltage 4	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 Stated apparent power VA 60 Specification material acc. IEC 85 B No Selative short circuit-proof No 11 Width mm 85 Height mm 91 Despree of protection (IP) mm 79 Strange or Protection (IP) P00 Strange or Protection (IP) No No Suitable for mounting on PCB No No Modular version No No	Secondary voltage 5	V	0 - 0
Secondary voltage 8 V 0 - 0 Secondary voltage 9 V 0 - 0 Secondary voltage 10 VA 60 Rated apparent power VA 60 Sport-circuit-proof No No Relative short circuit voltage % 11 Width mm 35 Depth mm 79 Depth mm 79 Degree of protection (IP) IP00 Riding core No No Suitable for mounting on PCB No No Modular version No No	Secondary voltage 6	V	0 - 0
No No No No No No No No	Secondary voltage 7	V	0 - 0
Secondary voltage 10 Secondary voltage 11 Secondary	Secondary voltage 8	V	0 - 0
Rated apparent power Type of insulation material acc. IEC 85 Short-circuit-proof Relative short circuit voltage No Relative short circuit voltage Midth mm 91 Depth Depth Degree of protection (IP) Ring core Middlar version Middlar version No O O O O O O O O O O O O O	Secondary voltage 9	V	0 - 0
Fype of insulation material acc. IEC 85 Short-circuit-proof Relative short circuit voltage Width Image: Many of the short circuit voltage Width Image: Many of the short circuit voltage Image: M	Secondary voltage 10	V	0 - 0
Short-circuit-proof Relative short circuit voltage Width Width Relight Relight Respect of protection (IP) Ring core Suitable for mounting on PCB Relight Relig	Rated apparent power	VA	60
Relative short circuit voltage Width mm 85 Height Depth Degree of protection (IP) Ring core Ruitable for mounting on PCB Modular version Modular version 1 1 Modular version Modular version 1 1 Mom 95 Mom 97 Modular version Modular version Modular version 1 1 Modular version	Type of insulation material acc. IEC 85		В
Midth mm 85 Height mm 91 Depth mm 79 Degree of protection (IP) IP00 Ring core No Suitable for mounting on PCB No Modular version No	Short-circuit-proof		No
Height mm 91 Depth mm 79 Degree of protection (IP) IP00 Ring core No Suitable for mounting on PCB No Modular version No	Relative short circuit voltage	%	11
Depth mm 79 Degree of protection (IP) IP00 Ring core No Suitable for mounting on PCB No Modular version No	Width	mm	85
Degree of protection (IP) Ring core No Suitable for mounting on PCB Modular version No	Height	mm	91
No Suitable for mounting on PCB No No Modular version No No	Depth	mm	79
Suitable for mounting on PCB Modular version No	Degree of protection (IP)		IP00
Modular version No	Ring core		No
	Suitable for mounting on PCB		No
Conductor material Copper	Modular version		No
	Conductor material		Copper

Dimensions



Assets (links)

Declaration of CE Conformity

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