DATASHEET - STI0,315(400/24)



Control transformer, 0.315 kVA, Rated input voltage 400 \pm 5 % V, Rated output voltage 24 V



Part no.STI0,315(400/24)Catalog No.035250Alternate CatalogSTIP32-I2-B2No.No.

Delivery program

Product range		Single-phase control transformers ST
Basic function		Single-phase control, isolating and safety transformers STI, STZ
Rated input voltage	V	400± 5 %
Rated output voltage	V	24
Rated power	kVA	0.315
Short-time rating	kVA	0.75
Terminal diagram / contact assignment		
Cu factor 1,10		

Technical data

General		
Standards		
Built and tested to		IEC/EN 61558-2-2/2-4/2-6 VDE 0570 Part 2-2 VDE 0570 Part 2-6 (safety transformers) VDE 0570 Part 2-4 (isolating transformer)
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		IPOO
Separate windings		•
Fully vacuum-impregnated		•
Reinforced insulation		•
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	4.3
No-load losses	W	10

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	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	28
Heat dissipation capacity	P _{diss}	W	0

W

%

18

5.5

0.92

Short-circuit losses Shortcircuit voltage

Efficiency

Operating ambient temperature min.	°C	-25
Operating ambient temperature max.	°C	40
EC/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 b 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

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

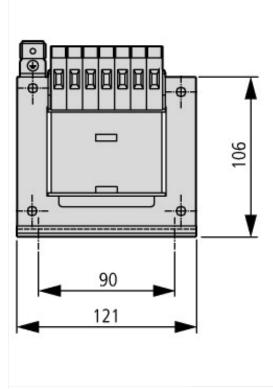
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Built as energy saving transformer Image: bit is a serie of the series of	Built as safety transformer		Yes
No. No. <td>Built as isolating transformer</td> <td></td> <td>Yes</td>	Built as isolating transformer		Yes
Primary voltage 2Image 2Imag	Built as energy saving transformer		No
Primary voltage 3 V 0 Primary voltage 4 V 0 Primary voltage 5 V 0 Primary voltage 6 V 0 Primary voltage 7 V 0 Primary voltage 8 V 0 Primary voltage 9 V 0 Primary voltage 9 V 0 Primary voltage 10 V 0 Secondary voltage 2 V 0 Secondary voltage 3 V 0 Secondary voltage 4 V 0 Secondary voltage 5 V 0 Secondary voltage 6 V 0 Secondary voltage 6 V 0 Secondary voltage 6 V 0 Secondary voltage 7 V 0 Secondary voltage 8 V 0	Primary voltage 1	V	400 - 400
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Secondary voltage 3 V 0 Secondary voltage 4 V 0 Secondary voltage 5 V 0 Secondary voltage 6 V 0 Secondary voltage 7 V 0 Secondary voltage 8 V 0	Secondary voltage 1	V	24 - 24
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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 3	V	0 - 0
Secondary voltage 6 V 0 - 0 Secondary voltage 7 V 0 - 0 Secondary voltage 8 V 0 - 0	Secondary voltage 4	V	0 - 0
Secondary voltage 8 V 0 - 0	Secondary voltage 5	V	0 - 0
Secondary voltage 8 V 0 - 0	Secondary voltage 6	V	0 - 0
	Secondary voltage 7	V	0 - 0
Secondary voltage 9 V 0 - 0	Secondary voltage 8	V	0 - 0
	Secondary voltage 9	V	0 - 0

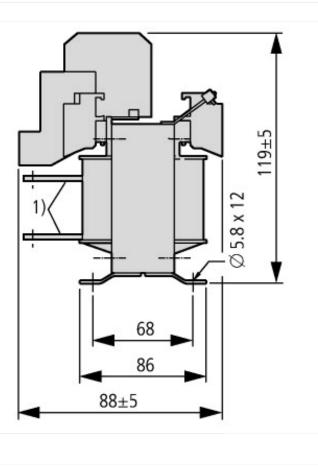
Secondar welters 10	V	0.0
Secondary voltage 10	v	0 - 0
Rated apparent power	VA	315
Type of insulation material acc. IEC 85		В
Short-circuit-proof		No
Relative short circuit voltage	%	5.5
Width	mm	121
Height	mm	131
Depth	mm	88
Degree of protection (IP)		IPOO
Ring core		No
Suitable for mounting on PCB		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
With STI/STZ0.06 ... 0.16 ground connection at bottom