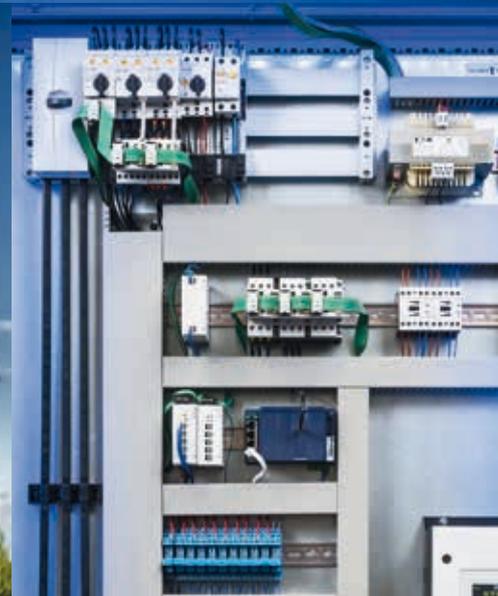
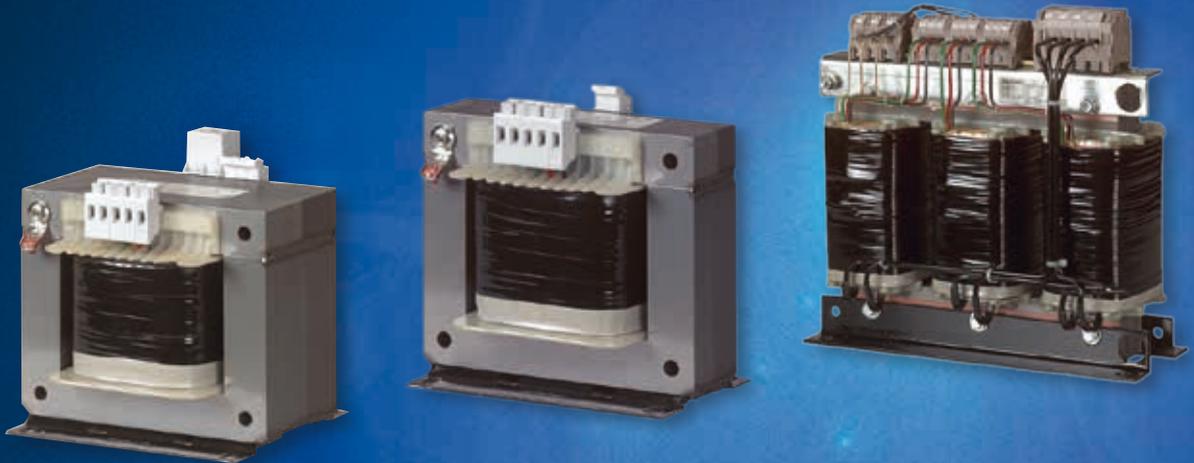


Transformers Flexible and Reliable



EATON

Powering Business Worldwide

The right winding for every application



Control, Isolation and Safety transformers Multi-winding transformers



Eaton offers a wide range of control transformers. All transformers are designed and tested according to the requirements of the IEC/EN 61558. This means that, depending on the specific type, they can be used in accordance with international installation standard IEC/EN 60204.

We also offer matching, matching transformer and power transformer transformers upon request.

Additionally, Eaton offers a vast selection of transformers approved for machine and system exports to north america.

Besides their use for voltage adjustment, transformers can also be used to change network configuration.

Information relevant for export to North America



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 XPTQ2,
ULCCN	XPTQ8
CSA File No.	UL report applies to both US and Canada
CSA Class No.	–
NA Certification Suitablefor	UL Recognized, certified by UL for use in Canada Branchcircuits
Max. Voltage Rating	600 V AC
Degree of Protection	IEC: IP00, UL/CSA Type: –

Transformers: Easy to use, reliable in performance.

All Eaton transformers apply to the IEC 85 and IEC 216 according to insulation class B. This ensures a highly reliable operation temperature of 130°C. Additionally, all our transformers are compliant to IP00 degree of protection and an ambient air temperature of -25° to +40°C without derating.

A resin impregnation avoids corrosion to the transformers, improves heat emission and notably reduces humming. Eaton offers a tropical protection lacquer for challenging application areas, which provides additional protection from humidity and corrosion.

Control transformers STN

Our single purpose STN control transformers provide a reliable operational voltage for control and auxiliary circuits at any time.

Due to the easy commissioning and construction according to IEC/EN 61558-2-2, VDE 0570-2-, UL 5085-2 and CSA 22.2 No. 66, the STN control transformers are extremely reliable and grant maximum security to equipment and systems.

Multi-winding transformers UTI

Eaton's multi-winding transformers are the most adaptive ones of their kind and thanks to their substantial approvals optimal for worldwide application.

Control, isolating and safety transformers STI, STZ, DTZ

The control, isolation and safety transformers STI, STZ and DTZ are built and audited according to IEC/EN 61558-2-2/2-4/2-6, UL 5085-2 and CSA 22.2 No. 66 norms.

The transformer reduces the effects of shortcircuits and guarantees safe electrical disconnection in case of failure.

Typical areas of application are among others actuating circuit, protective separation, PELV-circuit (protective small voltage) and FELV-circuit (functionallow voltage).

Multi-winding transformers are a combination of resistance in a single device. Transformers are built and tested in compliance with IEC/ EN 61558-2-2/2-4/2-6, UL 5085-2 and CSA 22.2 No. 66 norms.



Single-phase control, isolation and safety transformer



Three-phase control, isolation and safety transformer



Single-phase control transformer



Single-phase multi-winding transformer

	Single-phase transformers				Three-phase transformers
	STN	STZ	STI	UTI	DTZ
Control transformer	X	X	X	X	X
Isolating transformer	-	X	X	X	X
Safety transformer	-	X	X	X	X
Multi-winding transformer	-	-	-	X	-
Preferred voltages	X	-	X	-	-
Selectable Voltages	X	X	-	-	X
Equipment*					
Housing IP23	-	X	-	-	X
Screen winding	-	X	-	-	X
Inrush current limiters	-	X	X	-	-
Additional tappings	-	X	-	-	X
Additional windings					
Secondary side	-	X	-	-	-
Primary side	-	Please enquire	-	-	-
Approvals					
UL/CSA	up to 4kVA	up to 4kVA	up to 4kVA	X	up to 6,3kVA
DNV & Germanische Lloyd	Please enquire	Please enquire	Please enquire	Please enquire	Please enquire

* Accessories available at www.eaton.eu

Single-phase control transformers with preferred voltages STN– Never compromising security



IEC/EN 61558-2-2
VDE 0570 Teil 2-2
Rated input voltage
230 ± 5 % V,
400 ± 5 % V
Rated output voltage
24 V, 230 V

Rated power kVA	Short-time rating kVA	Preferred voltage 400/230V		Preferred voltage 400/24V		Preferred voltage 230/24V	
		Type	Article no.	Type	Article no.	Type	Article no.
0.06	0.095	STN0,06(400/230)	204936	STN0,06(400/24)	204937	STN0,06(230/24)	204935
0.1	0.16	STN0,1(400/230)	204942	STN0,1(400/24)	204943	STN0,1(230/24)	204941
0.16	0.32	STN0,16(400/230)	204948	STN0,16(400/24)	204949	STN0,16(230/24)	204947
0.2	0.38	STN0,2(400/230)	204977	STN0,2(400/24)	204978	STN0,2(230/24)	204976
0.25	0.44	STN0,25(400/230)	204980	STN0,25(400/24)	221509	STN0,25(230/24)	221508
0.315	0.6	STN0,315(400/230)	204982	STN0,315(400/24)	221511	STN0,315(230/24)	221510
0.4	0.62	STN0,4(400/230)	204984	STN0,4(400/24)	221514	STN0,4(230/24)	221513
0.5	0.88	STN0,5(400/230)	204986	STN0,5(400/24)	221516	STN0,5(230/24)	221515
0.63	1.51	STN0,63(400/230)	204988	STN0,63(400/24)	221518	STN0,63(230/24)	221517
0.8	2.25	STN0,8(400/230)	204990	STN0,8(400/24)	221520	STN0,8(230/24)	221519
1	3.28	STN1,0(400/230)	204992	STN1,0(400/24)	221522	STN1,0(230/24)	221521
1.3	4.8	STN1,3(400/230)	221523				
1.6	3.98	STN1,6(400/230)	221524				
2	5.75	STN2,0(400/230)	221525				
2.5	7.24	STN2,5(400/230)	221526				
3	8.36	STN3,0(400/230)	221527				
4	12.2	STN4,0(400/230)	221528				

Just select - for example your voltage

Single-phase control transformer with selectable voltage



IEC/EN 61558-2-2
VDE 0570 Teil 2-2
Rated input voltage 100 – 690 ± 5 % V,
Rated output voltage 12 – 250 V

Rated power kVA	Short-time rating kVA	Type	Article no.
0.06	0.095	STN0,06(*/*)	204938
0.1	0.16	STN0,1(*/*)	204939
0.16	0.32	STN0,16(*/*)	204944
0.2	0.38	STN0,2(*/*)	204950
0.25	0.44	STN0,25(*/*)	204979
0.315	0.6	STN0,315(*/*)	204981
0.4	0.62	STN0,4(*/*)	204983
0.5	0.88	STN0,5(*/*)	204985
0.63	1.51	STN0,63(*/*)	204987
0.8	2.25	STN0,8(*/*)	204989
1	3.28	STN1,0(*/*)	204991
1.3	4.8	STN1,3(*/*)	204993
1.6	3.98	STN1,6(*/*)	204994
2	5.75	STN2,0(*/*)	204995
2.5	7.24	STN2,5(*/*)	204996
3	8.36	STN3,0(*/*)	204997
4	12.2	STN4,0(*/*)	204998

Ordering example

When ordering, the type reference must include the following details:

STN0, 1(*/*)

1. Wildcard * = Rated input voltage
2. Wildcard * = Rated output voltage
 - Desired type STN0, 1
 - Desired rated input voltage 200 V
 - Desired rated output voltage 18,5 V

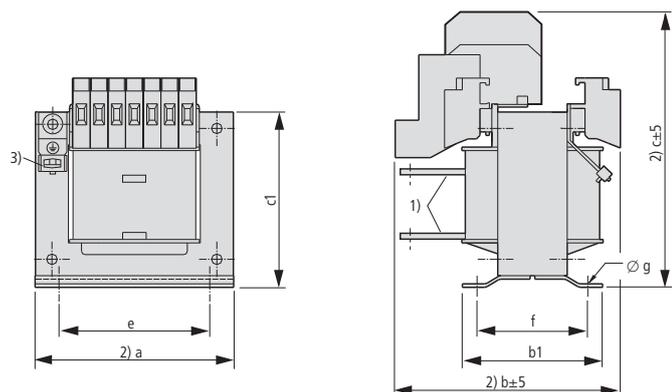
The correct type is

STN0,1(200/18,5)

Dimension

Single-phase control transformer

STN0,6...2,0

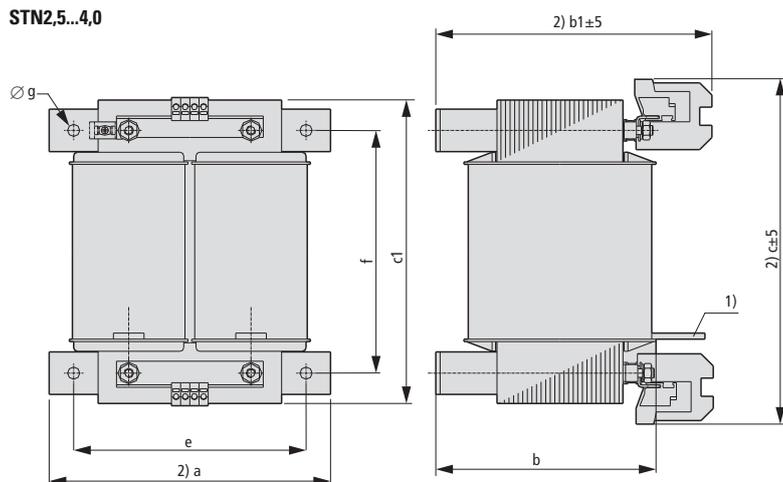


- ① Connection lugs
- ② Maximum space requirement
- ③ with STN0,6...2,0 ground connection at bottom

Type	Total Weight kg	Off-load losses W	Short-circuit voltage W	Short-circuit voltage V	Efficiency %	a		b		c		b		c		e	f	Ø g	b1	c1
						12V	24V	42V	110V	230V										
STN0,06	1	7	10	11	0.79	66	79	78	79	78	79	78	79	78	50	56	4.8x8	67	60	
STN0,1	1.5	7	15	10	0.84	85	75	91	75	91	75	91	75	91	64	47	4.8x8	60	76	
STN0,16	2.4	11	16	6.7	0.87	85	97	91	97	91	97	91	97	91	64	70	4.8x8	83	76	
STN0,2	2.8	9	19	6.8	0.88	106	83	112	83	112	83	112	83	112	80	61	5.8x9	80	97	
STN0,25	2.9	9	21	6.3	0.9	106	103	121	83	112	83	112	83	112	80	61	5.8x9	80	97	
STN0,315	3.5	11	21	5.3	0.91	106	111	121	91	112	91	112	91	112	80	70	5.8x9	89	97	
STN0,4	4.2	12	27	5.3	0.92	121	108	133	88	124	88	124	88	124	90	68	5.8x12	86	106	
STN0,5	5.1	15	27	4.1	0.93	121	120	133	120	133	100	124	100	124	90	80	5.8x12	98	106	
STN0,63	7.1	21	32	3.8	0.93	151	121	157	121	157	107	145	107	145	122	82	7x15	104	132	
STN0,8	9.8	24	24	2.5	0.94	151	124	196	138	157	124	145	124	145	122	99	7x15	121	132	
STN1,0	12.4	33	26	2.2	0.94	151	150	196	164	157	164	157	150	145	122	125	7x15	147	132	
STN1,3	14.1	46	33	2.1	0.94	175	138	213	148	169	148	169	138	157	135	110	7x15	135	152	
STN1,6	14.3	43	44	2.5	0.95	175	183	170	138	216	148	169	138	157	135	110	7x15	135	152	
STN2,0	19.9	56	42	2	0.95	175	213	170	168	216	178	169	168	157	135	141	7x15	165	152	

Measurements in mm

STN2,5...4,0



- ① Connection lugs
- ② Maximum space requirement

Type	Total Weight kg	Off-load losses W	Short-circuit losses W	Short-circuit voltage V	Efficiency %	a	b	c1	e	f	Ø g	12V		24V		42V		110V		230V	
												b1	c	b1	c	b1	c	b1	c	b1	c
STN2,5	20	21	145	2.4	0.95	230	130	250	190	200	11	185	260	185	250	205	255	160	275	145	255
STN3,0	23	32	94	2.4	0.95	230	155	250	190	200	11	210	260	230	250	230	255	185	275	170	255
STN4,0	27	28	143	2.4	0.95	230	170	250	190	200	11	225	260	245	250	245	255	200	275	185	255

Measurements in mm

Single-phase control, isolation and safety transformers STZ



IEC/EN 61558-2-2/2-4/2-6
VDE 0570 Part 2-2,
Part 2-6 (Safety transformers),
Part 2-4 (Isolating transformers)
Rated input voltage 50 – 950 ± 5 % V,
Rated output voltage 12 – 1000 V

Ordering example

When ordering, the type reference must include the following details:

STZ0,06(*/*)

1. Wildcard * = Rated input voltage
2. Wildcard * = Rated output voltage
 - desired type STZ0,06
 - desired rated input voltage
 - desired rated output voltage

The correct type is

STZ0,06(230/12)

Attention!

Preferred voltage 400/230 V, 400/24 V, 230/230 V, 230/24 V.
230/24 V are delivered as STI only, if there were no additional options in the order, e.g. shielding winding.

Rated power	Short-time rating	Type	Article no.
kVA	kVA		
0.06	0.13	STZ0,1(*/*)	914761
0.1	0.24	STZ0,1(*/*)	914762
0.16	0.36	STZ0,25(*/*)	914763
0.2	0.44	STZ0,2(*/*)	914764
0.25	0.6	STZ0,25(*/*)	914765
0.315	0.75	STZ0,315(*/*)	914766
0.4	1.1	STZ0,4(*/*)	914767
0.5	1.6	STZ0,5(*/*)	914768
0.63	1.7	STZ0,63(*/*)	914769
0.8	2	STZ0,8(*/*)	914770
1	2.8	STZ1,0(*/*)	914771
1.3	3.7	STZ1,3(*/*)	914772
8	5.5	STZ8,0(*/*)	914773
2	7	STZ2,0(*/*)	914774
2.5	9	STZ2,5(*/*)	914775
3	11.5	STZ3(*/*)	914776
4	15	STZ4,0(*/*)	914777
5.3	13	STZ5,3(*/*)	201060
8.3	21	STZ8,3(*/*)	201062
13.3	34	STZ13,3(*/*)	201064

Three-phase control, isolating and safety transformers DTZ



IEC/EN 61558-2-2/2-4/2-6
VDE 0570 Part 2-2,
Part 2-6 (Safety transformers),
Part 2-4 (Isolating transformer)
Rated input voltage 50 – 950 ± 5 % V,
Rated output voltage 18.5 – 1000 V

Ordering example

When ordering, the type reference must include the following details:

DTZ0,1(*/*)

1. Wildcard * = Rated input voltage
2. Wildcard * = Rated output voltage
 - desired type DTZ0.1
 - desired rated input voltage
 - desired rated output voltage

The correct type is

DTZ0,1(200/18,5)DY(N)5

Rated power	Short-time rating	Type	Article no.
kVA	kVA		
0.1	0.2	DTZ0,1(*/*)*	914799
0.16	0.32	DTZ0,16(*/*)*	914800
0.25	0.5	DTZ0,25(*/*)*	914801
0.4	0.8	DTZ0,4(*/*)*	914802
0.5	1	DTZ0,5(*/*)*	914803
0.63	1.38	DTZ0,63(*/*)*	914804
1	2.2	DTZ1,0(*/*)*	914805
1.6	3.5	DTZ1,6(*/*)*	914806
2	4.4	DTZ2,0(*/*)*	914807
2.5	5.5	DTZ2,5(*/*)*	914808
4	6.2	DTZ4,0(*/*)*	914809
6.3	15.7	DTZ6,3(*/*)*	914810
8	20	DTZ8,0(*/*)*	914811
10	25	DTZ10(*/*)*	914812
12.5	31	DTZ12,5(*/*)*	914813
16	40	DTZ16(*/*)*	914814
20	50	DTZ20(*/*)*	914815
25	62	DTZ25(*/*)*	914816

Dimension

Single-phase control-isolation-/safety transformers STZ

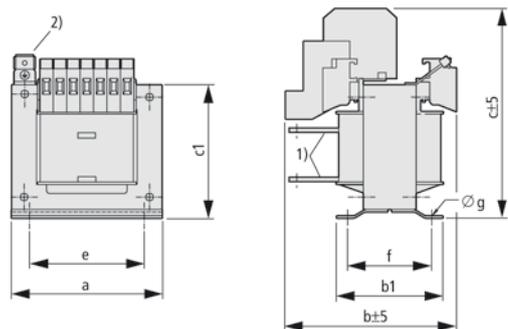


Fig. 1

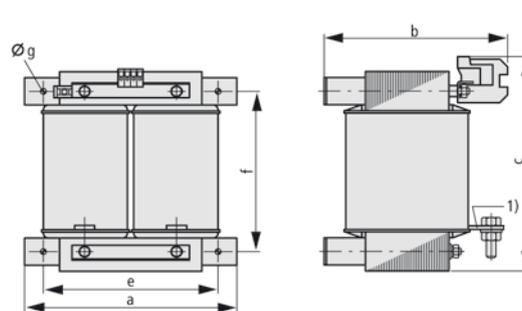


Fig. 2

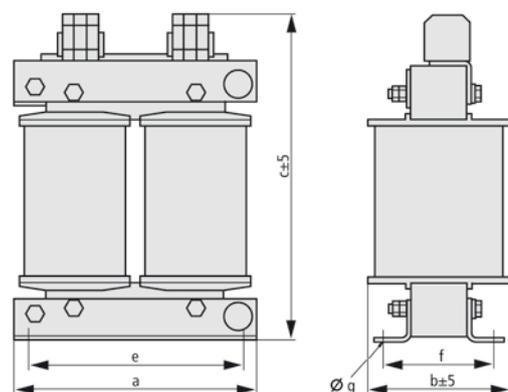


Fig. 3

- 1) Connection lugs
2) Types STI/STZ 0,06 - 0,16 earth connection at bottom

Type	Total Weight kg	Off-load losses W	Short-circuit losses ¹⁾ W	Short-circuit voltage V	Efficiency %	a		b		c		b		c		b		c		e	f	Øg	b1	c1
						12V	24V	42V	110V	230V														

Fig. 1

STZ0,06	1.5	6	5	7.8	0.85	85	75	91	75	91	75	91	75	91	75	91	64	47	4.8 x 8	60	76
STZ0,1	2	7	8	6.9	0.87	85	89	91	89	91	89	91	89	91	89	91	64	61	4.8 x 8	74	76
STZ0,16	2.3	9	12	6.6	0.88	85	97	91	97	91	97	91	97	91	97	91	64	70	4.8 x 8	83	76
STZ0,2	3	11	17	6.6	0.88	106	83	112	83	112	83	112	83	112	83	112	80	61	5.8 x 9	80	97
STZ0,25	3.8	13	14	5.1	0.9	106	111	124	91	112	91	112	91	112	91	112	80	70	5.8 x 9	89	97
STZ0,315	4.3	10	18	5.5	0.92	121	-	-	88	119	88	119	88	119	88	119	90	68	5.8 x 12	86	106
STZ0,4	5.2	17	18	4.4	0.92	121	-	-	100	119	100	119	100	119	100	119	90	80	5.8 x 12	98	106
STZ0,5	6.8	15	24	3.9	0.93	121	-	-	140	131	120	119	120	119	120	119	90	100	5.8 x 12	118	106
STZ0,63	7.7	15	27	4.1	0.94	151	-	-	121	157	107	145	107	145	107	145	122	82	7 x 15	104	132
STZ0,8	9.6	17	25	3.2	0.95	151	-	-	138	157	124	145	124	145	124	145	122	99	7 x 15	121	132
STZ1,0	13.4	27	29	2.9	0.95	151	-	-	164	157	164	157	150	145	150	145	122	125	7 x 15	147	132
STZ1,3	14.9	32	35	3	0.95	175	-	-	148	169	148	169	138	157	138	157	135	110	7 x 15	135	152
STZ1,6	17.4	21	37	2.4	0.96	195	-	-	142	240	149	186	142	174	142	174	150	110	10 x 18	140	166
STZ2,0	21.5	27	33	2	0.97	195	-	-	154	240	161	186	154	174	154	174	150	122	10 x 18	152	166
STZ2,5	21.5	39	43	2.4	0.97	195	-	-	154	240	154	240	161	186	154	174	150	122	10 x 18	152	166

Fig. 2

STZ3,0	26	30	55	2.1	0,97	230	-	-	210	250	230	255	185	275	170	255	190	200	11	-	-
STZ4,0	32	38	88	2.2	0,97	230	-	-	235	250	255	255	210	275	200	255	190	200	11	-	-

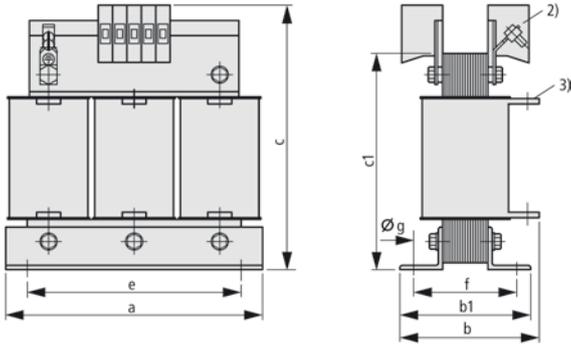
Fig. 3

STZ5,3	40	40	165	4	0.96	260	200	*)	200	*)	200	*)	214	374	214	360	230	126	10 x 18	-	-
STZ8,3	55	65	200	4	0.97	260	-	-	230	*)	230	*)	244	374	244	374	230	156	10 x 18	-	-
STZ13,3	80	95	265	3.5	0.97	320	-	-	240	*)	240	*)	270	440	270	440	270	172	13 x 20	-	-

*The higher rated operating voltage applies, Measurements in mm 1) Values during average room temperature

Dimension

Three-phase control-isolation/safety transformers DTZ



- ¹⁾ The higher rated operating voltage applies
- ²⁾ Terminals < 25 A
- ³⁾ Connection lugs > 63 A

Type	Total Weight kg	Off-load losses W	Short-circuit losses W	Short-circuit voltage %	Efficiency	a	18,5V			24V			42V			110V			230V			e	f	Øg	b1	c1
							b	c	b	c	b	c	b	c	b	c	b	c	b	c						
DTZ0,1	1.9	5	28	15	0.75	125	65	134	65	134	65	134	65	134	65	134	100	45	5 x 8	61	102					
DTZ0,16	2.5	8	20	9.5	0.85	125	75	134	75	134	75	134	75	134	75	134	100	55	5 x 8	71	102					
DTZ0,25	3.6	11	25	8.5	0.88	155	77	154	77	154	77	154	77	154	77	154	130	57	8 x 12	77	128					
DTZ0,4	5.1	15	40	8	0.88	155	92	154	92	154	92	154	92	154	92	154	130	72	8 x 12	92	128					
DTZ0,5	6.1	20	35	6	0.9	190	82	180	112	191	82	180	82	180	82	180	170	58	8 x 12	82	155					
DTZ0,63	8.9	25	50	5.5	0.9	190	102	180	132	191	102	180	102	180	102	180	170	78	8 x 12	102	155					
DTZ1,0	12.9	35	50	4	0.92	210	137	210	137	210	137	210	117	199	117	199	175	97	8 x 12	117	174					
DTZ1,6	18.5	55	60	3	0.93	230	144	234	114	269	144	234	114	223	114	223	176	95	7 x 13	114	198					
DTZ2,0	22.4	60	75	3.5	0.94	240	117	279	117	279	117	279	141	244	117	233	185	95	10 x 18	117	208					
DTZ2,5	29.3	80	85	2.5	0.94	265	132	299	132	299	132	299	152	264	132	253	200	102	10 x 18	132	228					
DTZ4,0	39.6	60	100	2	0.96	300	166	317	166	333	147	333	157	296	157	296	224	119	10 x 18	147	260					
DTZ6,3	50.2	66	170	2	0.96	300	193	285	210	285	193	333	173	333	173	296	224	145	10 x 18	173	260					
DTZ8,0	55	60	250	4	0.96	390	200	1)	200	1)	200	1)	184	374	184	374	350	126	10 x 18	152	310					
DTZ10,0	70	80	280	3.5	0.97	390	-	-	216	1)	216	1)	199	374	199	374	350	141	10 x 18	167	310					
DTZ12,5	80	95	300	4	0.97	390	-	-	231	1)	231	1)	214	374	214	374	350	156	10 x 18	182	310					
DTZ16	95	100	420	4.5	0.97	450	-	-	221	1)	221	1)	204	434	204	434	400	142	13 x 20	172	360					
DTZ20	125	140	400	3.5	0.98	450	-	-	251	1)	251	1)	234	1)	234	434	400	172	13 x 20	202	360					
DTZ25	160	180	350	3	0.98	450	-	-	281	1)	281	1)	264	1)	264	434	400	202	13 x 20	232	360					

Measurements in mm

Single-phase control, isolation and safety transformers STI - The muscle for your mains supplies

	Rated power		Short-time rating	Preferred voltage 400/230V		Preferred voltage 400/24V		Preferred voltage 230/230V		Preferred voltage 230/24V	
	kVA	kVA		Type	Article no.	Type	Article no.	Type	Article no.	Type	Article no.
	0.06	0.13	STI0,06(400/230)	029975	STI0,06(400/24)	029971	STI0,06(230/230)	029968	STI0,06(230/24)	029977	
	0.1	0.24	STI0,1(400/230)	046630	STI0,1(400/24)	046631	STI0,1(230/230)	029976	STI0,1(230/24)	046629	
	0.16	0.36	STI0,16(400/230)	046633	STI0,16(400/24)	046634	STI0,16(230/230)	035247	STI0,16(230/24)	046632	
	0.2	0.44	STI0,2(400/230)	046636	STI0,2(400/24)	046637	STI0,2(230/230)	035248	STI0,2(230/24)	046635	
	0.25	0.6	STI0,25(400/230)	046638	STI0,25(400/24)	035249	STI0,25(230/230)	036400	STI0,25(230/24)	035262	
	0.315	0.75	STI0,315(400/230)	046639	STI0,315(400/24)	035250	STI0,315(230/230)	040641	STI0,315(230/24)	036292	
	0.4	1.1	STI0,4(400/230)	046640	STI0,4(400/24)	035251	STI0,4(230/230)	040642	STI0,4(230/24)	036393	
	0.5	1.6	STI0,5(400/230)	046641	STI0,5(400/24)	035252	STI0,5(230/230)	040643	STI0,5(230/24)	036394	
	0.63	1.7	STI0,63(400/230)	046883	STI0,63(400/24)	035253	STI0,63(230/230)	040644	STI0,63(230/24)	036395	
	0.8	2	STI0,8(400/230)	046889	STI0,8(400/24)	035254	STI0,8(230/230)	046641	STI0,8(230/24)	036396	
	1	2.8	STI1,0(400/230)	046895	STI1,0(400/24)	035255	STI1,0(230/230)	026642	STI1,0(230/24)	036397	
	1.3	3.7	STI1,3(400/230)	046918			STI1,3(230/230)	025256			
	1.6	5.5	STI1,6(400/230)	046952			STI1,6(230/230)	035257			
	2	7	STI2,0(400/230)	035258			STI2,0(230/230)	036398			
	2.5	9	STI2,5(400/230)	035259			STI2,5(230/230)	036399			
	3	11.5	STI3,0(400/230)	035260							
4	15	STI4,0(400/230)	035261								

IEC/EN 61558-2-2/2-4/2-6
VDE 0570 Part 2-2,
Part 2-6 (Safety transformers),
Part 2-4 (isolating transformer)
Rated input voltage
230 ± 5 % V, 400 ± 5 % V
Rated output voltage 24, 230 V

Dimension

Single-phase control-isolation-/safety transformers STI

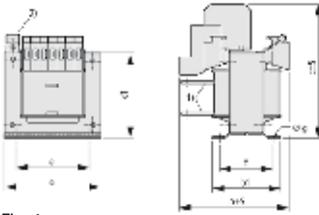


Fig. 1

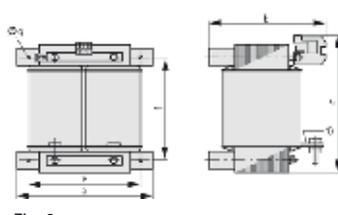


Fig. 2

¹⁾ Connection lugs
²⁾ Types STI/STZ 0,06 - 0,16 earth connection at bottom

Type	Total Weight kg	Off-load losses W	Short-circuit losses ¹⁾ W	Short-circuit voltage %	Efficiency	12V		24V		42V		110V		230V		e	f	ø g	b1	c1	
						a	b	c	b	c	b	c	b	c							
Fig. 1																					
STI0,06	1,5	6	5	7.8	0.85	85	75	91	75	91	75	91	75	91	75	91	64	47	4.8 x 8	60	76
STI0,1	2	7	8	6.9	0.87	85	89	91	89	91	89	91	89	91	89	91	64	61	4.8 x 8	74	76
STI0,16	2.3	9	12	6.6	0.88	85	97	91	97	91	97	91	97	91	97	91	64	70	4.8 x 8	83	76
STI0,2	3	11	17	6.6	0.88	106	83	112	83	112	83	112	83	112	83	112	80	61	5.8 x 9	80	97
STI0,25	3.8	13	14	5.1	0.9	106	111	124	91	112	91	112	91	112	91	112	80	70	5.8 x 9	89	97
STI0,315	4.3	10	18	5.5	0.92	121	-	-	88	119	88	119	88	119	88	119	90	68	5.8 x 12	86	106
STI0,4	5.2	17	18	4.4	0.92	121	-	-	100	119	100	119	100	119	100	119	90	80	5.8 x 12	98	106
STI0,5	6.8	15	24	3.9	0.93	121	-	-	140	131	120	119	120	119	120	119	90	100	5.8 x 12	118	106
STI0,63	7.7	15	27	4.1	0.94	151	-	-	121	157	107	145	107	145	107	145	122	82	7 x 15	104	132
STI0,8	9.6	17	25	3.2	0.95	151	-	-	138	157	124	145	124	145	124	145	122	99	7 x 15	121	132
STI1,0	13.4	27	29	2.9	0.95	151	-	-	164	157	164	157	150	145	150	145	122	125	7 x 15	147	132
STI1,3	14.9	32	35	3	0.95	175	-	-	148	169	148	169	138	157	138	157	135	110	7 x 15	135	152
STI1,6	17.4	21	37	2.4	0.96	195	-	-	142	240	149	186	142	174	142	174	150	110	10 x 18	140	166
STI2,0	21.5	27	33	2	0.97	195	-	-	154	240	161	186	154	174	154	174	150	122	10 x 18	152	166
STI2,5	21.5	39	43	2.4	0.97	195	-	-	154	240	154	240	161	186	154	174	150	122	10 x 18	152	166
Fig. 2																					
STI3,0	26	30	55	2.1	0.97	230	-	-	210	250	230	255	185	275	170	255	190	200	11	-	-
STI4,0	35	38	88	2.2	0.97	230	-	-	235	250	255	255	210	275	200	255	190	200	11	-	-

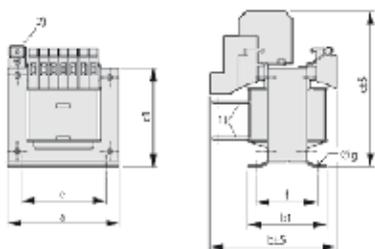
¹⁾ Values during average room temperature, Measurements in mm

Single-phase multi-winding transformer UTI - The master of flexibility

Single-phase multi-winding transformer	Rated power kVA	Rated input voltage V	Rated output voltage V	Type	Article no.
				0.1	208 230
0.2	380 400 415	UTI0,2-115	206924		
	0.315	440 460	UTI0,315-115	206925	
		0.5	480 500	UTI0,5-115	206926
0.63	525 550	UTI0,63-115	206927		
	0.8	575 600	UTI0,8-115	206928	
1			UTI1,0-115	206929	



(Universal) control, isolation and safety transformers according to VDE 0550, IEC/EN 61558-2-2/2-4/2-6 VDE 0570 Part 2-2, Part 2-6 (Safety transformer), Part 2-4 (Isolation transformer)



¹⁾ Maximum space requirement
²⁾ With Type UTI1,1 earth connection at bottom

Type	Total weight kg	Off-load losses W	Load losses W	Short-circuit voltage %	Efficiency	U = 24V			U = 115V			e	f	ø g	
						a	b1	c1	b	c	b				c
UTI0,1	2	8	11	7.5	0.84	85	74	76	89	93	89	93	64	61	4.8 x 8
UTI0,2	3	10	19	6.5	0.87	106	80	97	82	112	82	112	80	61	5.8 x 9
UTI0,315	4.3	15	23	5	0.89	121	86	106	88	124	88	124	90	68	5.8 x 12
UTI0,5	6.8	26	23	3.5	0.92	121	118	106	140	133	120	124	90	100	5.8 x 12
UTI0,63	7.7	25	32	3.8	0.92	151	104	132	122	159	107	150	122	82	7 x 15
UTI0,8	9.6	33	29	2.8	0.93	151	121	132	139	159	124	150	122	99	7 x 15
UTI1,0	13.4	46	30	2.1	0.93	151	147	132	165	159	150	150	122	125	7 x 15

Measurements in mm

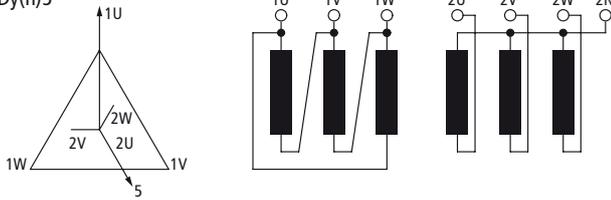
Common configurations for three-phase transformers

Through different configurations of the the primary and secondary winding (star, delta or inter-star) many possible combinations become available, which can be selected by

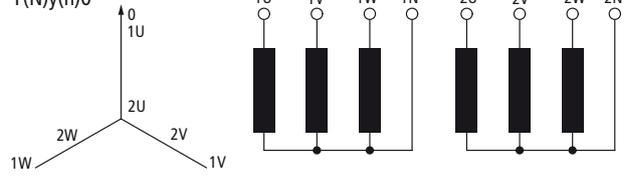
purpose. These are collected as configurations according to EN60076-1.

Additional switching groups on request

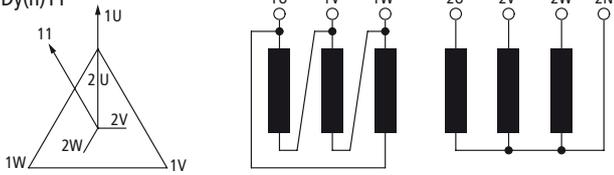
Dy(n)5



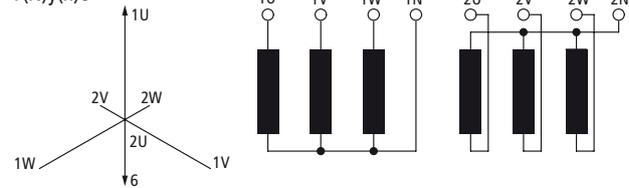
Y(N)y(n)0



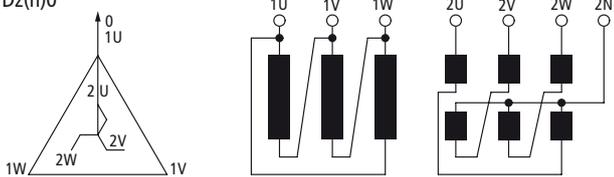
Dy(n)11



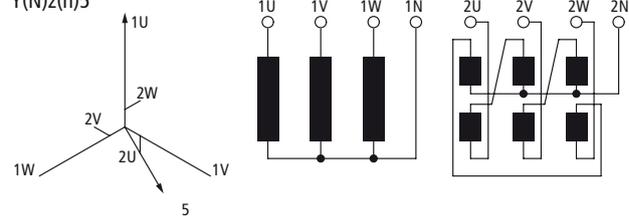
Y(N)y(n)6



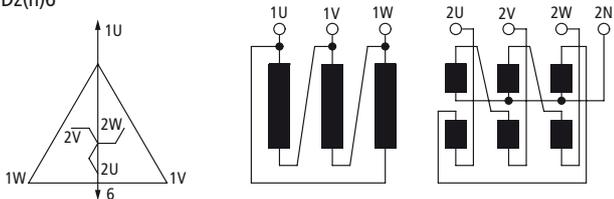
Dz(n)0



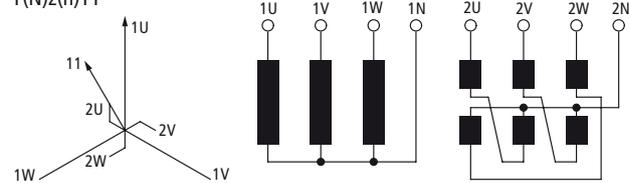
Y(N)z(n)5



Dz(n)6



Y(N)z(n)11



The accessible star point is made clear by an added n secondary (N primary) to the switching group. Standard circuit is Yy0.

	①	③		②	③
U1-1.1	208	1.1-1.9/1.2-1.3	U2-2.1	115	2.1-2.4/2.3-2.2
	230	1.1-1.8/1.2-1.4	2.3	230	2.3-2.4
	380	1.3-1.0	2.4		
1.3	400	1.4-1.0	0-2.2		
1.4	415	1.3-1.9			
1.5	440	1.4-1.9			
1.6	460	1.4-1.8			
1.7	480	1.5-1.8			
1.8	500	1.6-1.8			
1.9	525	1.3-1.7			
1.0	550	1.4-1.7			
	---	---			

Determination of the continuous rating

The control transformer must be rated in size so that the voltage drop remains within the permissible tolerance range even under unfavourable conditions.

The determination of the transformer rating is performed by the addition of all the sealing powers of all loads which are to be connected simultaneously as well as addition of the inrush power of the largest load, and multiplying the result by a factor of 0.8. If the ratings of the loads are very similar, the sum of all inrush powers of the simultaneously connected loads is added to the sum of all the sealing powers and the result is multiplied by a factor of 0.8.

Determination of the short-time rating

If the primary requirement is to switch large contactors, it is recommended that the control transformer is selected on the basis of the short-time rating. In most cases, this will mean that the transformer rating is reduced.

It is important to ensure that the sealing power does not exceed the continuous rating.

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