

36.01 ///
SINGLE-PHASE
TRANSFORMERS



Technical data T1 CUSTOMIZED PRODUCT

CODE	RATED POWER	APPROVALS	DIMENSIONS (mm)					WEIGHT
			A	B	C	D	E	
	VA							Kg
T1-30...	30	CE	77	81	77	60	43	1,1
T1-50...	50	CE	77	85	77	60	48	1,2
T1-75...	75	CE	86	85	82	70	55	1,45
T1-100...	100	CE	86	95	82	70	65	2
T1-150...	150	CE	98	98	95	80	69	2,6
T1-200...	200	CE	98	113	95	80	84	3,1
T1-250...	250	CE	122	103	110	100	75	3,6
T1-300...	300	CE	122	108	110	100	80	4,4
T1-400...	400	CE	122	118	110	100	90	5,7
T1-500...	500	CE	122	138	110	100	110	7
T1-600...	600	CE	153	116	136	125	93	7,4
T1-800...	800	CE	153	136	136	125	113	9,8
T1-1000...	1000	CE	153	156	136	125	133	12,1
T1-1250...	1250	CE	193	125	176	160	96	14
T1-1500...	1500	CE	193	131	176	160	102	16
T1-2000...	2000	CE	193	151	176	160	122	20
T1-3000...	3000	CE	193	192	176	160	162	22
T1-4000...	4000	CE	240	230	230	180	165	45
T1-5000...	5000	CE	240	240	230	180	180	50
T1-6000...	6000	CE	240	260	240	180	200	60



CoC certified products: T1ULF and T1
 For technical and electrical data see page 10 (T1ULF) and 11 (T1)

General data

Input voltage	T1Q : 200-440 V
	T1ULF-T1UL : 100-600 V
Output voltage	T1Q : 12-440 V
	T1ULF-T1UL : 12-600 V
Rated power	T1Q : 30-2000 VA
	T1ULF : 30-5000 VA
	T1UL : >5 KVA - 10 KVA

Insulation class	class F
Temperature class	T1Q : class B
	T1ULF-T1UL : class F
Ambient temperature	Ta=40°C
Protection degree	IP 00 - class I
Test voltage	4,2 KV/1'
Terminals	terminal blocks

Application:

Isolating transformer with secondary voltage > 50 V
 Safety transformer with secondary voltage ≤ 50 V safety transformer
 They are suitable for any industrial/civil use for the electrical isolation of the input and output sides. Construction in accordance with the following standards:

Standard

CEI-EN 61558,2-4 – isolating transformers
 IEC 61558,2-4 – isolating transformers
 UL 5085 1-2 – low-voltage transformers
 CEI-EN 61558,2-6 – safety transformers
 IEC 61558,2-6 – safety transformers
 CSA 22.2, No66

T1Q: ENEC marked

T1ULF-T1UL: UL-CSA marked

Certifications

05	KEMA FILE 3502609.01-02-03-04-05
UL	FILE E169331-vol. 2-sec. 1-2
UL	FILE E169331-vol. 1-sec. 1-2
UL	FILE E215141-vol. 1-sec. 1



Technical data T1Q

CODE	RATED POWER	APPROVALS	DIMENSIONS (mm)					DIMENSIONS ACCORDING TO DIN STANDARD (mm)					WEIGHT
			A	B	C	D	E	A	B	C	D	E	
	VA												Kg
T1Q-30...	30	05	77	81	77	60	43	76	72	89	56	45	1,1
T1Q-50...	50	05	77	85	77	60	48	76	78	89	56	50	1,2
T1Q-75...	75	05	86	85	82	70	55	85	85	98	64	54	1,45
T1Q-100...	100	05	86	95	82	70	65	85	94	98	64	64	2
T1Q-150...	150	05	98	98	95	80	69	96	92	109	84	70	2,6
T1Q-200...	200	05	98	113	95	80	84	96	107	109	84	85	3,1
T1Q-250...	250	05	122	103	110	100	75	121	95	123	90	70	3,6
T1Q-300...	300	05	122	108	110	100	80	121	105	123	90	80	4,4
T1Q-400...	400	05	122	118	110	100	90	121	115	123	90	90	5,7
T1Q-500...	500	05	122	138	110	100	110	121	135	123	90	110	7
T1Q-600...	600	05	153	116	136	125	93	151	117	140	122	90	7,4
T1Q-800...	800	05	153	136	136	125	113	151	137	140	122	110	9,8
T1Q-1000...	1000	05	153	156	136	125	133	151	157	140	122	130	12,1
T1Q-1250...	1250	05	193	125	176	160	96	193	125	176	160	96	14
T1Q-1500...	1500	05	193	131	176	160	102	193	131	176	160	102	16
T1Q-2000...	2000	05	193	151	176	160	122	193	151	176	160	122	20

Technical data T1ULF (industrial control transformers)
T1UL (general purpose transformers)

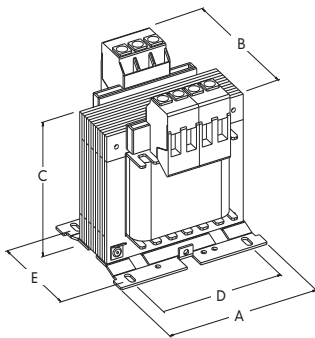


Fig. 1

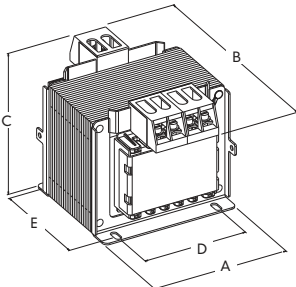


Fig. 2

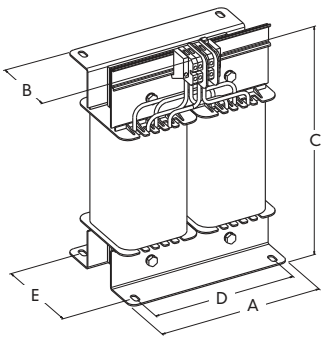


Fig. 3

CODE	RATED POWER	APPROVALS	DIMENSIONS (mm)					DIMENSIONS ACCORDING TO DIN STANDARD (mm)					WEIGHT	FIG.
			A	B	C	D	E	A	B	C	D	E		
T1ULF-30...	30		77	81	77	60	43	76	72	89	56	45	1,1	1-2
T1ULF-50...	50		77	85	77	60	48	76	78	89	56	50	1,2	1-2
T1ULF-75...	75		86	85	82	70	55	85	85	98	64	54	1,45	1-2
T1ULF-100...	100		86	95	82	70	65	85	94	98	64	64	2	1-2
T1ULF-150...	150		98	98	95	80	69	96	92	109	84	70	2,6	1-2
T1ULF-200...	200		98	113	95	80	84	96	107	109	84	85	3,1	1-2
T1ULF-250...	250		122	103	110	100	75	121	95	123	90	70	3,6	1-2
T1ULF-300...	300		122	108	110	100	80	121	105	123	90	80	4,4	1-2
T1ULF-400...	400		122	118	110	100	90	121	115	123	90	90	5,7	1-2
T1ULF-500...	500		122	138	110	100	110	121	135	123	90	110	7	1-2
T1ULF-600...	600		153	116	136	125	93	151	117	140	122	90	7,4	1-2
T1ULF-800...	800		153	136	136	125	113	151	137	140	122	110	9,8	1-2
T1ULF-1000...	1000		153	156	136	125	133	151	157	140	122	130	12,1	1-2
T1ULF-1250...	1250		193	125	182	122	96	-	-	-	-	-	14	1-2
T1ULF-1500...	1500		193	131	182	160	102	-	-	-	-	-	16	1-2
T1ULF-2000...	2000		193	151	182	160	122	-	-	-	-	-	20	1-2
T1ULF-2500...	2500		193	171	182	160	142	-	-	-	-	-	22	2-3
T1ULF-3000...	3000		200	155	300	150	126	-	-	-	-	-	31	3
T1ULF-4000...	4000		240	175	357	205	104	-	-	-	-	-	37	3
T1ULF-5000...	5000		240	185	357	205	114	-	-	-	-	-	40	3
T1UL-6000...	6000		240	205	357	205	134	-	-	-	-	-	47	3
T1UL-7500...	7500		280	228	410	233	152	-	-	-	-	-	57	3
T1UL-10000...	10000		280	252	410	233	175	-	-	-	-	-	75	3



All the above items are also available with transparent varnish

Electrical data
Suitable for T1Q - T1ULF - T1UL

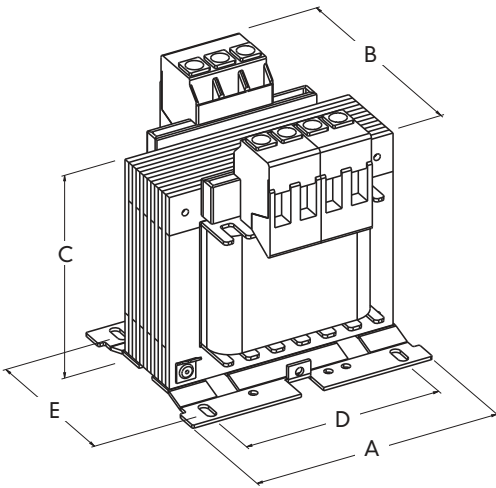
RATED POWER	LOSSES (W)		EFFICIENCY	Ucc	ΔV	INRUSH CURRENT
	no-load	load				
VA			%	%	%	x In
30	3	3,2	82,8	9,5	9,6	20
50	3,5	6,7	83,1	11,8	11,8	18
75	4	8	86,2	10,6	10	17
100	5,2	6,8	86,9	8,4	8,2	24
150	6,5	12,5	88,9	9,4	8,1	20
200	8,2	16	89,5	9	7,7	19
250	9,1	17,5	90,5	10,2	7,2	19
300	10,5	18,7	91,2	9,2	6,4	19
400	12,5	28,5	91	10	7,1	18
500	15,6	29	91,9	8,6	5,9	20
600	17	36	92,3	5,6	5,6	23
800	20	46	92,4	5	5,4	22
1000	25	47	93,4	4,5	4,5	23
1250	32	48	93,9	3,9	3,8	22
1500	34	63	93,9	4,3	4,1	22
2000	41	79	94,3	4	3,8	21
2500	50	80	95	3,5	3,2	21
3000	60	97	95	3,4	3,2	20
4000	60	150	95,2	4,1	3,8	20
5000	65	170	95,6	3,7	3,4	18
6000	65	185	96	3,4	3,1	18
7500	75	220	96,2	3,2	2,4	17
10000	100	250	96,7	2,9	2,4	17



General data

2 input voltage/1 output voltage
output in two sides

Input voltage	230-400 V or others upon request
Output voltage	24 V/115 V or others upon request
Rated power	30-5000 VA
Insulation class	class F



Temperature class	class B
Ambient temperature	Ta=40°C
Protection degree	IP 00 - class I
Test voltage	4,2 KV/1'
Terminals	terminal blocks

Application:

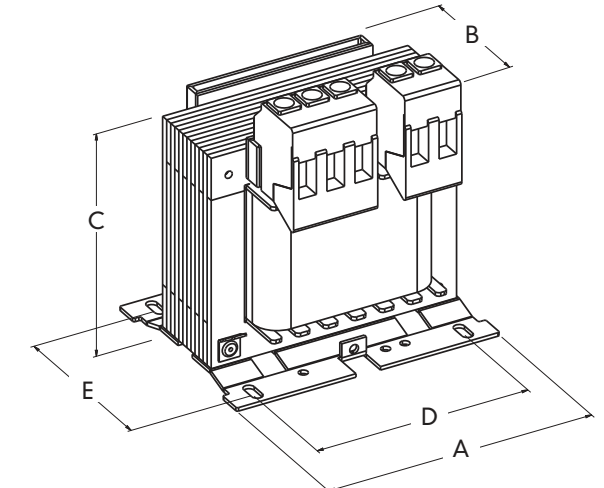
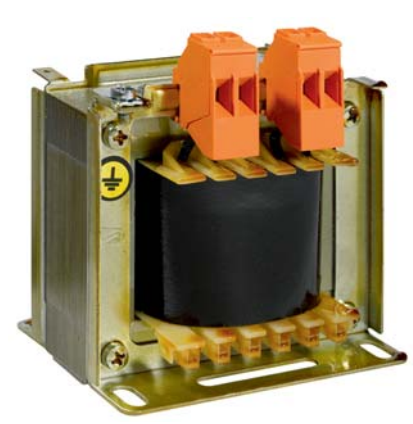
Single-phase control, isolating and safety transformers designed combining reliable performance and cost-effectiveness.
They are completely impregnated with resin and have faston or screw earth connection, 4 sqmm terminal blocks, input and output in two sides.
Construction in accordance with the following standards:

Standard

CEI-EN 61558,2-4 – isolating transformers
CEI-EN 61558,2-6 – safety transformers
IEC 61558,2-4 and 2-6

Technical data T1B

CODE	RATED POWER	DIMENSIONS (mm)					WEIGHT	LOSSES (W)		EFFICIENCY	Ucc	ΔV
		A	B	C	D	E		no-load	load			
	VA						Kg			%	%	%
T1B-30...	30	76	68	89	55	40	1	2,1	5,8	76,5	13,2	13
T1B-50...	50	76	73	89	55	45	1,1	2,7	9,5	81	12,5	12,4
T1B-75...	75	76	87	89	55	59	1,3	3,9	11	83,8	12,4	12,7
T1B-100...	100	85	87	95	64	59	1,8	4,7	13,7	84,6	11,8	12,1
T1B-160...	160	98	87	106	84	66	2,2	5,8	17,9	86,5	10,5	10,7
T1B-200...	200	98	97	106	84	76	3	7	22,8	87,1	10,2	10,3
T1B-250...	250	98	107	106	84	86	3,5	8,4	28,3	87,3	10	10,2
T1B-300...	300	108	107	115	90	86	4,1	9,8	31	88,4	9,2	9,3
T1B-400...	400	122	102	121	90	84	4,9	9,4	34	90,3	7,9	7,9
T1B-500...	500	122	117	121	90	99	6	11	34,1	92	6,4	6,5
T1B-600...	600	151	94	142	123	79	7,8	12,3	39	92,2	6,4	6,2
T1B-800...	800	151	114	142	123	99	10,4	17,2	40,4	93,4	4,9	4,8
T1B-1000...	1000	151	124	142	123	109	11,4	19	47,3	93,5	4,6	4,5
T1B-1500...	1500	192	125	176	160	96	14	30	76	93,5	4,9	4,8
T1B-2000...	2000	192	151	176	160	122	20,1	40	88	94	4,4	4,3
T1B-2500...	2500	192	171	176	160	142	23	52	96	94,5	3,8	3,7
T1B-3000...	3000	192	191	176	160	162	26	61	103	94,9	3,5	3,4
T1B-4000...	4000	240	230	230	180	165	45	85	100	95,6	3	3,5
T1B-5000...	5000	240	240	230	180	180	50	90	105	96	3	3,6



General data

1 input voltage/1 output voltage
output in one side

Rated input voltage	230 V or others upon request
Rated output voltage	24 V/115 V or others upon request
Rated power	30-5000 VA
Insulation class	class F
Temperature class	class B

Ambient temperature	Ta=40°C
Protection degree	IP 00 - class I
Test voltage	4,2 KV/1'
Terminals	terminal blocks

Application:

Single-phase control, isolating and safety transformers designed combining reliable performance and cost-effectiveness. They are completely impregnated with resin and have faston or screw earth connection, 4 sqmm terminal blocks, input and output in the same side. Construction in accordance with the following standards:

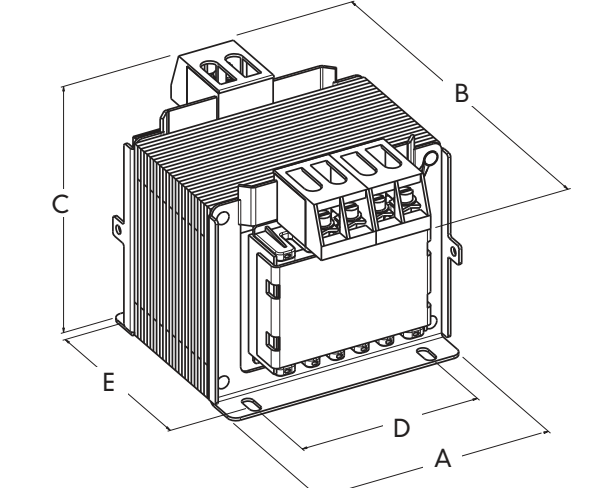
Standard

CEI-EN 61558,2-4 – isolating transformers
CEI-EN 61558,2-6 – safety transformers
IEC 61558,2-4 and 2-6

Technical data T1C

CODE	RATED POWER	DIMENSIONS (mm)					WEIGHT	LOSSES (W)		EFFICIENCY	Ucc	
		VA	A	B	C	D		no-load	load		%	ΔV
T1C-30...	30	76	68	89	55	40	1	2,1	5,8	76,5	13,2	13
T1C-50...	50	76	73	89	55	45	1,1	2,7	9,5	81	12,5	12,4
T1C-75...	75	76	87	89	55	59	1,3	3,9	11	83,8	12,4	12,7
T1C-100...	100	85	87	95	64	59	1,8	4,7	13,7	84,6	11,8	12,1
T1C-160...	160	98	87	106	84	66	2,2	5,8	17,9	86,5	10,5	10,7
T1C-200...	200	98	97	106	84	76	3	7	22,8	87,1	10,2	10,3
T1C-250...	250	98	107	106	84	86	3,5	8,4	28,3	87,3	10	10,2
T1C-300...	300	108	107	115	90	86	4,1	9,8	31	88,4	9,2	9,3
T1C-400...	400	122	102	121	90	84	4,9	9,4	34	90,3	7,9	7,9
T1C-500...	500	122	117	121	90	99	6	11	34,1	92	6,4	6,5
T1C-600...	600	151	94	142	123	79	7,8	12,3	39	92,2	6,4	6,2
T1C-800...	800	151	114	142	123	99	10,4	17,2	40,4	93,4	4,9	4,8
T1C-1000...	1000	151	124	142	123	109	11,4	19	47,3	93,5	4,6	4,5
T1C-1500...	1500	192	125	176	160	96	14	30	76	93,5	4,9	4,8
T1C-2000...	2000	192	151	176	160	122	20,1	40	88	94	4,4	4,3
T1C-2500...	2500	192	171	176	160	142	23	52	96	94,5	3,8	3,7
T1C-3000...	3000	192	191	176	160	162	26	61	103	94,9	3,5	3,4
T1C-4000...	4000	240	230	230	180	165	45	85	100	95,6	3	3,5
T1C-5000...	5000	240	240	230	180	180	50	90	105	96	3	3,6

Electrical data



General data

input-output in two sides

Rated input voltage	230-400 V (others upon request)
Rated output voltage	24V or 115V (others upon request)
Frequency	50/60 Hz
Rated power	30-5000 VA
Insulation class	class F
Temperature class	class B

Ambient temperature	Ta=40°C
Operating time	continuous
Protection degree	IP 00 - class I
Terminal protection degree	IP 20
Test voltage	4,2 KV/1'
Terminals	terminal blocks

Application:

Single phase control, isolating and safety transformers designed combining reliable performance and cost-effectiveness. They are completely impregnated with resind. Input and output in two sides. Costruction in accordance with the following standards:

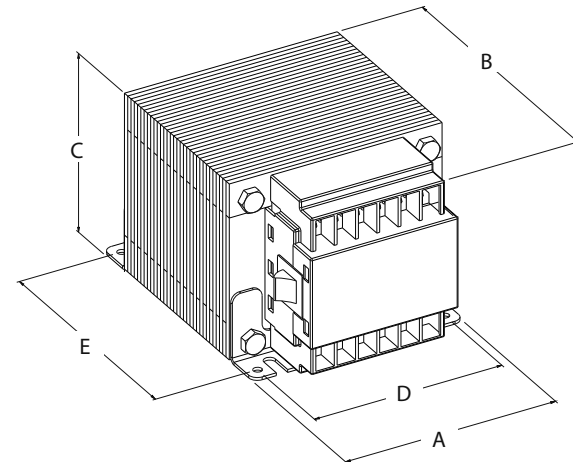
Standard

CEI - EN 61558,2-4 – isolating transformers
CEI - EN 61558,2-6 – safety transformers
IEC 61558,2-4 and 2-6

Technical data T1-IT

CODE	RATED POWER	DIMENSIONS (mm)					WEIGHT	LOSSES (W)		EFFICIENCY	Ucc	
		VA	A	B	C	D		no-load	load		%	ΔV
T1-IT-30...	30	76	70	76	55	39	1	2,1	5,8	76,5	13,2	13
T1-IT-50...	50	76	75	76	55	44	1,1	2,7	9,5	81	12,5	12,4
T1-IT-75...	75	76	90	76	55	59	1,3	3,9	11	83,8	12,4	12,7
T1-IT-100...	100	85	88	84	70	61	1,8	4,7	13,7	84,6	11,8	12,1
T1-IT-160...	160	98	94	94	80	64	2,2	5,8	17,9	86,5	10,5	10,7
T1-IT-200...	200	98	104	94	80	74	3	7	22,8	87,1	10,2	10,3
T1-IT-250...	250	98	114	94	80	84	3,5	8,4	28,3	87,3	10	10,2
T1-IT-300...	300	108	112	94	84	83	4,1	9,8	31	88,4	9,2	9,3
T1-IT-400...	400	122	107	110	100	85	4,9	9,4	34	90,3	7,9	7,9
T1-IT-500...	500	122	122	110	100	100	6	11	34,1	92	6,4	6,5
T1-IT-600...	600	151	100	133	125	90	7,8	12,3	39	92,2	6,4	6,2
T1-IT-800...	800	151	120	133	125	110	10,4	17,2	40,4	93,4	4,9	4,8
T1-IT-1000...	1000	151	130	133	125	120	11,4	19	47,3	93,5	4,6	4,5
T1-IT-1500...	1500	192	125	176	160	96	14	30	76	93,5	4,9	4,8
T1-IT-2000...	2000	192	151	176	160	122	20,1	40	88	94	4,4	4,3
T1-IT-2500...	2500	192	171	176	160	142	23	52	96	94,5	3,8	3,7
T1-IT-3000...	3000	192	191	176	160	162	26	61	103	94,9	3,5	3,4

Electrical data



General data

Rated input voltage	230-400 V
Rated output voltage	12/24/48 V (others upon request)
Rated power	30-125 VA
Insulation class	class F
Temperature class	class B

Application:

Single-phase isolating and safety transformers suitable for any industrial or civil use for the electrical isolation of the input and output sides with resettable switch on the output .
Construction in accordance with the following standards:

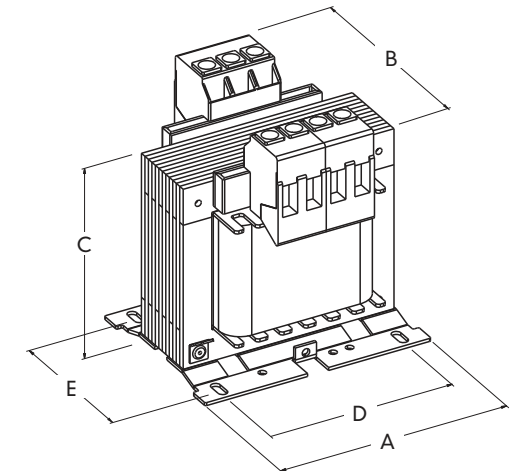
Standard

CEI-EN 61558,2-4 and 2-6 – isolating and safety transformers
IEC 61558,2-4 and 2-6

Technical data T1P

CODE	RATED POWER	DIMENSIONS (mm)					WEIGHT	LOSSES (W)		EFFICIENCY	Ucc	DV
		A	B	C	D	E		no-load	load			
	VA						Kg			%	%	%
T1P-30	30	75	73	63	55	45	1	2,5	3,8	83,2	11,2	10,9
T1P-50	50	75	73	63	55	45	1,1	2,9	7,1	83,4	12,5	12,4
T1P-63	63	75	83	63	55	55	1,3	3,2	8	84,9	12,2	11,8
T1P-75	75	75	88	63	55	60	1,5	3,8	9,7	85,1	12,1	11,7
T1P-100	100	85	95	72	64	61	1,9	4,5	11,8	86,1	11,8	11,3
T1P-125	125	85	105	72	64	71	2,3	5,5	13,4	87	10,9	10,2

Electrical data



General data

Rated input voltage (standard)	208-230-380-400-420-440-460-480-500-525-550 V
Rated output voltage	2x115 V or 2x12 V or 2x24 V
Rated power	from 150 to 1000 VA
Insulation class	class F

Application:

Suitable for any industrial application, where different input voltages are required.
Construction in accordance with the following standards:

Standard

CEI-EN 61558,2-4 and 2-6 – isolating and safety transformers
IEC 61558,2-4 and 2-6
UL 5085 1 and 2 – low voltage transformers
CSA 22.2 No.66

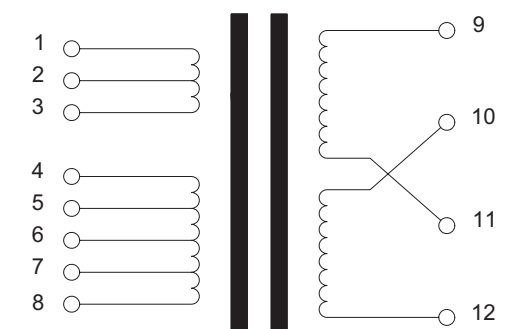
Technical data T1U

CODE	RATED POWER	DIMENSIONS (mm)					WEIGHT
		A	B	C	D	E	
	VA						Kg
T1U-150...	150	96	92	105	84	75	2,6
T1U-250...	250	121	95	125	90	70	3,6
T1U-400...	400	121	115	125	90	90	5,7
T1U-500...	500	121	135	125	90	110	7
T1U-630...	630	151	117	140	120	90	7,4
T1U-800...	800	151	137	140	120	110	9,8
T1U-1000...	1000	151	157	140	120	130	12,1

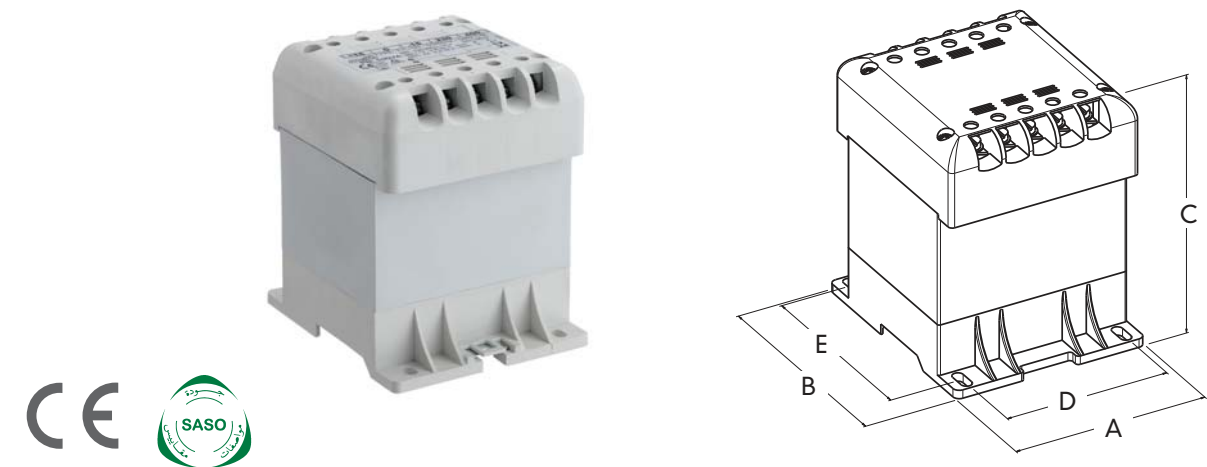
Certifications

	FILE E169331-vol. 2-sec. 1-2
	FILE E215141-vol. 1-sec. 1

STANDARD WIRING DIAGRAM



Other configurations available upon request



General data

Rated input voltage	230-400±15 V
Rated output voltage	2X12 V or 2x115 V
Rated power	50-400 VA
Insulation class	class F
Temperature class	class B

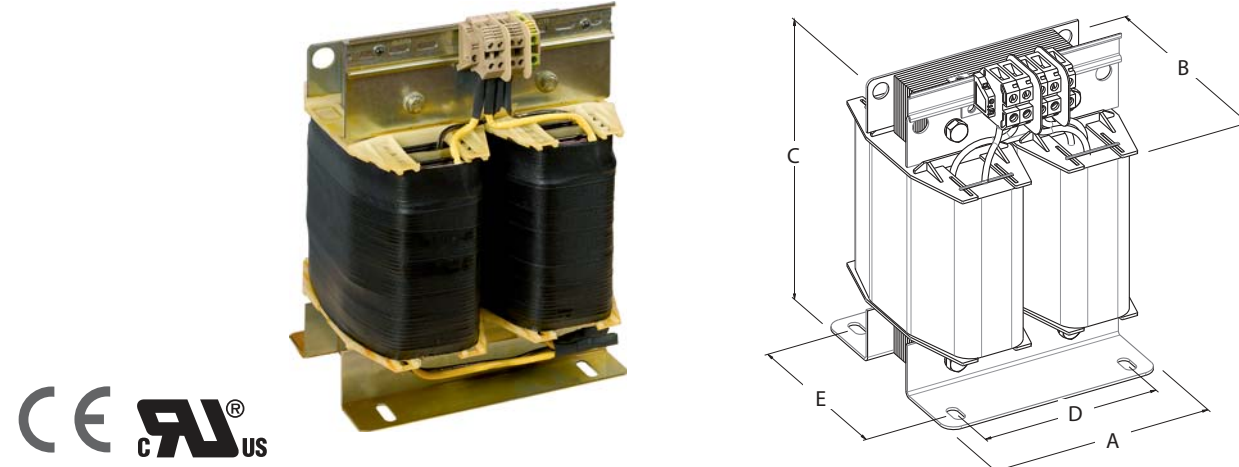
Application:

Single-phase isolating and safety transformers suitable for DIN rail or floor screws installation.
Multi-voltage input and output with protection degree IP20.
Protection class 2
Construction in accordance with the following standards:

Protection class	class II
Ambient temperature	Ta=40°C
Protection degree	IP 20
Test voltage	4,2 KV/1'
Terminals	self-lifting screws

Standard

CEI-EN 61558,2-4 and 2-6 – isolating and safety transformers
IEC 61558,2-4 and 2-6



General data

Rated input voltage	up to 600 V
Rated output voltage	up to 600 V
Rated power	from 5 to 80 KVA
Insulation class	class H
Temperature class	class F

Application:

Suitable for any industrial applications for electrical isolation of the input and output side.
Construction in accordance with the following standards:

Standard

CEI-EN 60076 – dry type transformers
IEC -60076 – dry type transformers
UL 5085 1 and 2 – low voltage transformers

Ambient temperature	Ta=40°C
Protection degree	IP 00 - class I
Test voltage	3 KV/1'
Terminals	terminal blocks / bars

Certifications

 Insulation System class F - H (upon request)

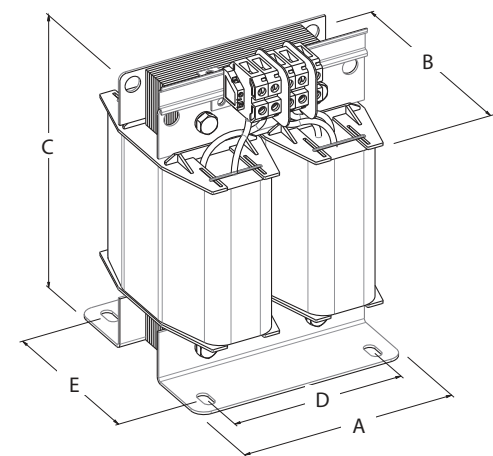
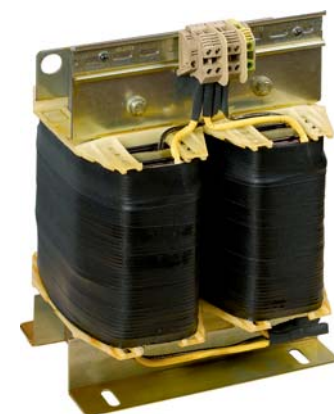
Technical data T1L

CODE	RATED POWER	APPROVALS	DIMENSIONS					WEIGHT	LOSSES (W)		EFFICIENCY	Ucc	DV
			A	B	C	D	E		NO-LOAD	LOAD			
T1L-50	50	 	89	106	100	68,5	90	1,4	3,5	6,2	84	11,5	11,8
T1L-63	63	 	89	106	100	68,5	90	1,5	3,4	8,1	84,7	11,1	11,4
T1L-75	75	 	89	106	110	68,5	90	1,8	4,5	8,2	85,7	9,5	9,7
T1L-100	100	 	89	106	120	68,5	90	2,1	5,5	10,3	86,3	9,2	9,4
T1L-160	160	 	113	115	112	80	99	2,3	5,9	15	87,6	9	9,2
T1L-200	200	 	113	115	122	80	99	3	7,1	21,1	87,8	8,9	9,1
T1L-250	250	 	113	115	132	80	99	3,5	8,4	26,6	87,9	8,4	8,7
T1L-300	300	 	126	136	117	96	121	3,8	8,6	27	89,3	8,3	8,3
T1L-400	400	 	126	136	127	96	121	4,5	10,5	34,9	89,9	8,1	8,2

Technical data T2

CODE	RATED POWER	DIMENSIONS (mm)					WEIGHT	LOSSES (W)		EFFICIENCY	Ucc	ΔV	INRUSH CURRENT
		A	B	C	D	E		no-load	load				
T2-5	5	240	210	330	180	120	32	300	93,5	6,4	5	5	20
T2-8	8	240	230	330	180	140	42	340	95,3	4,8	4,8	4,8	20
T2-10	10	280	230	408	240	130	53	390	95,6	4,8	4	4	18
T2-15	15	280	270	408	235	170	72	95	445	96,5	3,7	3,5	15
T2-20	20	320	280	440	265	320	88	115	530	96	3,6	3,5	15
T2-25	25	320	310	440	265	198	110	140	600	97,1	3,1	3,2	14
T2-30	30	400	330	550	300	200	125	150	890	96,6	4,7	4,6	13
T2-40	40	400	360	550	300	220	155	180	1010	97,1	4,6	4,5	12
T2-50	50	400	410	550	300	240	190	230	1060	97,4	3,9	3,8	10
T2-60	60	400	440	550	300	280	225	280	1080	97,8	3,4	3,4	9
T2-80	80	400	480	550	300	320	275	335	1350	97,9	3,3	3,4	9

Electrical data



General data

Rated input voltage	230 V
Rated output voltage	115-0-115 V
Rated power	from 2200 VA to 10kVA
Insulation class	class F-H
Temperature class	class B
Ambient temperature	Ta=40°C
Protection degree	IP 00 - class I
Inrush current	12 x In
Short-circuit voltage	3%

Insulation voltage	5KV/1'
No-load current	3%
Leakage current of the output winding to earth	≤0,5 mA
Leakage current of the enclosure to earth	≤ 3,5 mA
Terminals	terminal blocks
Double screen between primary and secondary	
Equipped with a pocket for PT100 upon request	

Application:

Suitable for galvanic separation between the net from the users in medical locations.
Construction in accordance with the following standards:

Standard

CEI-EN 61558, 2-15
IEC 61558, 2-15



Class F/F version is available upon request

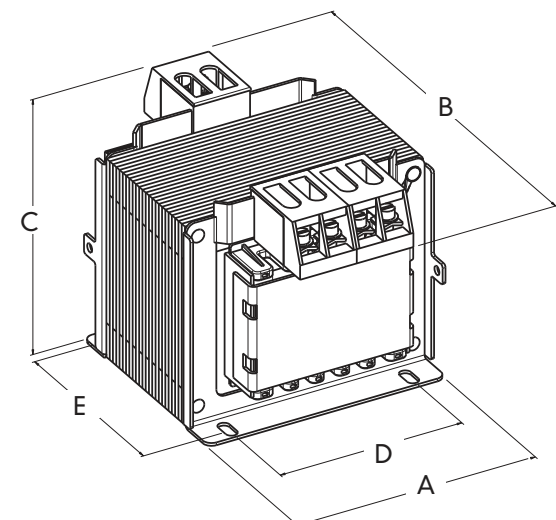
Isolating transformer for powering medical locations.

Technical data T2H

CODE	RATED POWER VA	DIMENSIONS (mm)					WEIGHT Kg	LOSSES (W)		EFFICIENCY %	Ucc %	INRUSH CURRENT x In
		A	B	C	D	E		no-load	load			
T2H-2.2	2200	200	155	300	150	126	36	12	65	96,7	3	12
T2H-3.3	3300	240	175	355	180	104	46	15	90	96,9	3	12
T2H-4	4000	240	185	355	180	114	50	20	110	96,9	3	12
T2H-5.5	5500	280	195	355	180	124	56	25	130	97	3	12
T2H-7.5	7500	280	230	410	235	152	66,5	30	190	97,1	3	12
T2H-10	10000	280	240	410	235	162	75	35	230	97,4	3	12

Electrical data

Data referred to 230/115-0-115 V



General data

Rated input voltage	400-440 V
Rated output voltage	24-230 V
Rated power	150-250-400-800-1000 VA
Insulation class	class F self-extinguishing
Temperature class	class F

Application:

Suitable for installation in switchboard and for "Marine" applications with GL approvals.
Self-extinguishing isolating components.
Construction in accordance with the following standards:

Standard

GL: Guideline for the Performances of Type Approvals Chapter 2 Ed. 2003

Ambient temperature	Ta=45°C
Protection degree	IP 00 - class I
Test voltage	4,2 KV/1'
Terminals	terminal blocks

Certifications



German Lloyd n.46566 – 12HH



UL-CSA Listed FILE E169331 (upon request)

Technical data T1Q-GL

CODE	RATED POWER VA	APPROVALS	DIMENSIONS (mm)					WEIGHT Kg	LOSSES (W)		EFFICIENCY %	Ucc %	ΔV %	INRUSH CURRENT x In
			A	B	C	D	E		no-load	load				
T1QGL-150...	150	GL	96	92	105	84	75	2,6	6,6	12,5	88,9	9,5	8,1	20
T1QGL-250...	250	GL	121	95	125	90	70	3,6	9,1	17,6	90,5	10	7,2	19
T1QGL-500...	500	GL	121	135	125	90	110	7	15,6	28,9	91,9	8,5	5,9	20
T1QGL-800...	800	GL	151	137	140	120	110	9,8	20	46	92,4	5	5	24
T1QGL-1000...	1000	GL	151	157	140	120	130	12,1	25	47	93,4	4,5	4,5	24

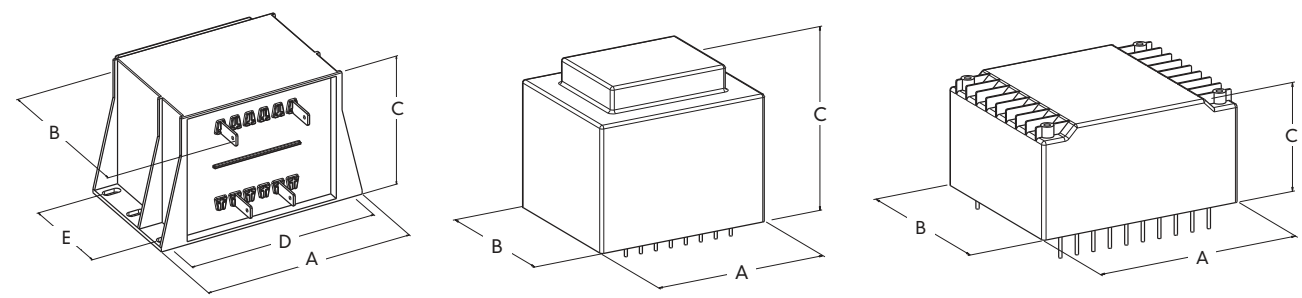
Electrical data



T5

T6

T7



General data

Rated input voltage	from 100 to 250 V	Insulation class	class B
Rated output voltage	from 12 to 42 V	Temperature class	class B
Rated power	T5: from 12 to 70 VA	Ambient temperature	Ta=70°C
	T6: from 3,2 to 100 VA	Protection degree	IP 00
	T7: from 4 to 60 VA	Test voltage	4,2 KV/1'

Application:

Safety transformers encapsulated with epoxy resin suitable for PCB use (T6-T7) or use in critical ambients (T5).

- T5: input and output with 6,3 mm faston
- T6: for PCB insertion with pins with Ø 0,8 mm
- T7: for PCB low profile with pins with Ø 0,8 mm

Construction in accordance with the following standards:

Standard

CEI-EN 61558, 2-6 – safety transformers
IEC 61558, 2-6 – safety transformers
UL-CSA 5085 1-2 – low voltage transformers

Certifications

	ENEC-KEMA File: 3502609 03-04-05
	UL Insulation System class B File E215141

Technical data T5

CODE	RATED POWER VA	APPROVALS	DIMENSIONS (mm)					WEIGHT Kg	LOSSES (W)	EFFICIENCY	ΔV
			A	B	C	D	E		no-load	%	%
T5-12	12		82	48	50	68	11	0,42	1	76	15
T5-20	20		82	54	54	74	13	0,56	1,2	87	14
T5-30	30		94	59	60	82	13	0,76	1,5	82	14
T5-35	35		94	59	71	82	36	1,04	2,2	85	9
T5-55	55		105	66	73	93	38	1,32	2,7	86	9,9
T5-70	70		105	66	83	93	48	1,54	3,5	87	8,8



Electrical data

Technical data T6

CODE	RATED POWER VA	APPROVALS	DIMENSIONS (mm)								WEIGHT Kg	LOSSES (W)	EFFICIENCY	ΔV	FIG.
			A	B	C	D	E	F	G			no-load	%	%	
T6-3,2	3,2		42	35,5	27,5	-	-	5	25		0,16	0,5	69	25	2
T6-4	4		43	37	33	-	-	5	25		0,18	0,9	69	25	2
T6-5	5		44,2	37,2	32	-	-	5	25		0,19	1	66	27	2
T6-10	10		50,2	42,2	34,5	-	-	5	27,5		0,28	1,2	71	24	2
T6-12	12		50,2	42,2	38,1	-	-	5	27,5		0,32	1,4	73	22	2
T6-16	16		74	47,5	40	65	-	5	32,5		0,42	1,6	72	24	1
T6-20	20		81,5	53,7	48	72,5	43,5	5	32,5		0,54	1,9	80	14	1
T6-25	25		81,5	53,7	53	72,5	43,5	5	32,5		0,62	2,2	81	13	1
T6-30	30		81,5	53,7	58	72,5	43,5	5	32,5		0,72	2,4	83	12	1
T6-35	35		87,5	58,6	58	78	48	5	35		0,78	2,6	84	12	1
T6-50	50		87,5	58,6	68	78	48	5	35		1,05	3,2	85	11	1
T6-60	60		102	69	65	90	57	7,5	39		1,35	3,4	86	11	1
T6-100	100		102	69	75	90	57	7,5	39		1,6	4,5	86	13	1



Electrical data

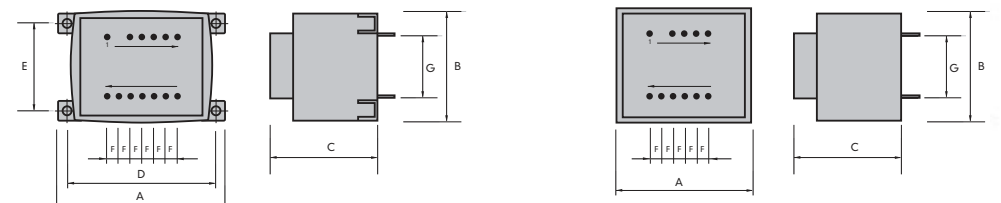


fig. 1

fig. 2

Technical data T7

CODE	RATED POWER VA	APPROVALS	DIMENSIONS (mm)			WEIGHT Kg	LOSSES (W)	EFFICIENCY	ΔV	FIG.
			A	B	C (H)		no-load	%	%	
T7-4	4		53	44	17,6	0,16	1,2	55	40	1
T7-6	6		53	44	22,6	0,18	1,1	63	33	1
T7-10	10		53	44	28,6	0,19	1,1	70	26	1
T7-14	14		68	57,5	24,2	0,28	1,6	70	26	2
T7-18	18		68	57,5	27,2	0,32	1,4	74	23	2
T7-24	24		68	57,5	31	0,42	1,7	76	21	2
T7-30	30		68	57,5	35,5	0,54	1,8	78	19	2
T7-40	40		83,5	69	37	0,62	2,2	78	19	3
T7-60	60		83,5	69	46	0,72	3,1	78	17	3



Electrical data

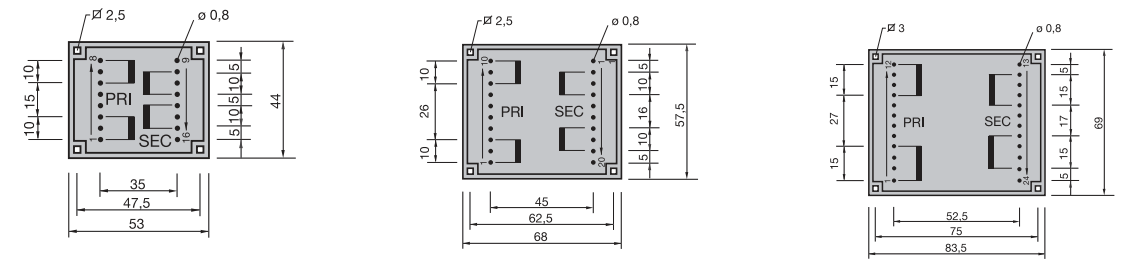


fig. 1

fig. 2

fig. 3

OTHER TRANSFORMERS



LV/MV three-phase transformers



MV three-phase reactors for short-circuit current



Single-phase transformers with fast-on terminals



Single-phase transformers with vertical connectors



Single-phase auto-transformers



AC/DC multi-voltages power supplier