

Laminated transformers encapsulated and non

Production can satisfy requests that go from 0.35VA up to 500VA of power.

Personalisations concern:

- inputs and outputs
- connections (pins, tags, faston tags, leads, terminal blocks)
- thermal protectors
- development of special bobbin formers (eliminating manual insulations between the windings by creating multiple sections)
- the dimensions
- housings for encapsulation
- fixing brackets and lugs

Particularly regarding the fixing methods, Comelit has often contributed to reducing the final cost to the client, by targeted adjustments for the specific application and reduction of manual operations.

In the following sheets we present the only standardised ranges we have under this section.

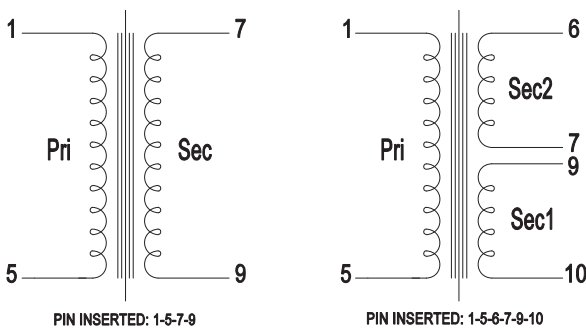
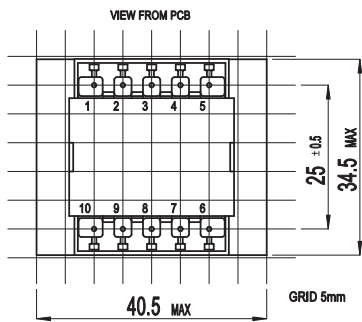
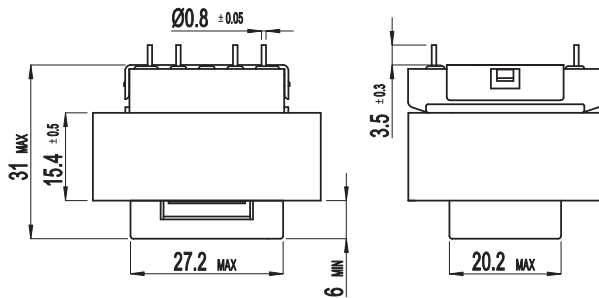
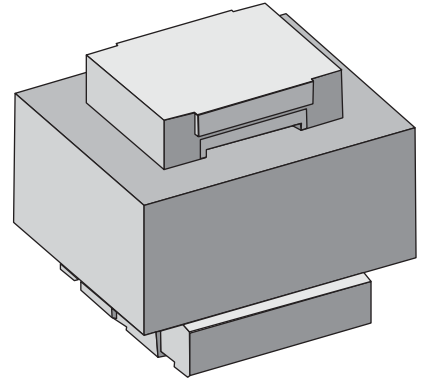


EI 40 P15.5

Safety
transformers



Power rating 4VA
Designed for use with a protection fuse
on the secondary
Ambient temperature 70 °C
Approval EN 61558-1, EN 61558-2-6



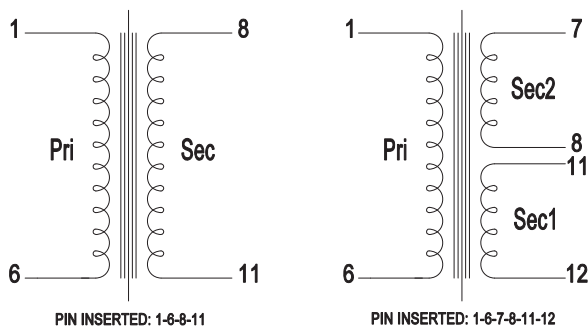
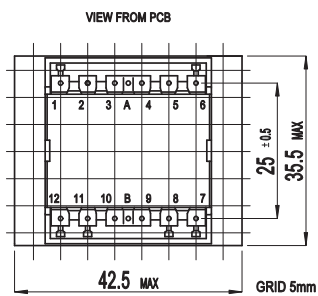
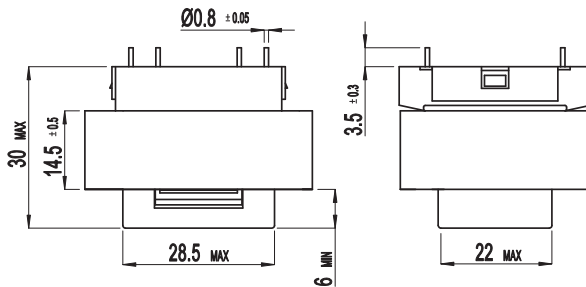
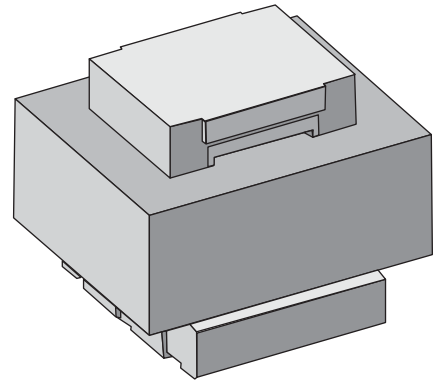
Model	Primary	Power	Secondary	Weight
	V	VA	n. x V	g
T40040E1060C7	230	4	1 x 6	160
T40040E1070C7	230	4	1 x 7	160
T40040E1080C7	230	4	1 x 8	160
T40040E1090C7	230	4	1 x 9	160
T40040E1100C7	230	4	1 x 10	160
T40040E1110C7	230	4	1 x 11	160
T40040E1120C7	230	4	1 x 12	160
T40040E1130C7	230	4	1 x 13	160
T40040E1140C7	230	4	1 x 14	160
T40040E1150C7	230	4	1 x 15	160
T40040E1160C7	230	4	1 x 16	160
T40040E1170C7	230	4	1 x 17	160
T40040E1180C7	230	4	1 x 18	160
T40040E1190C7	230	4	1 x 19	160
T40040E1200C7	230	4	1 x 20	160
T40040E1210C7	230	4	1 x 21	160
T40040E1220C7	230	4	1 x 22	160
T40040E1230C7	230	4	1 x 23	160
T40040E1240C7	230	4	1 x 24	160
T40040E1250C7	230	4	1 x 25	160
T40040E2060C7	230	4	2 x 6	160
T40040E2090C7	230	4	2 x 9	160
T40040E2120C7	230	4	2 x 12	160
T40040E2150C7	230	4	2 x 15	160
T40040E2180C7	230	4	2 x 18	160

EI 42 P14.5

Safety
transformers



Power rating 4.5VA
Not protected
Designed for use with a protection fuse
on the secondary to be installed by the user
Approval EN 61558-1, EN 61558-2-6



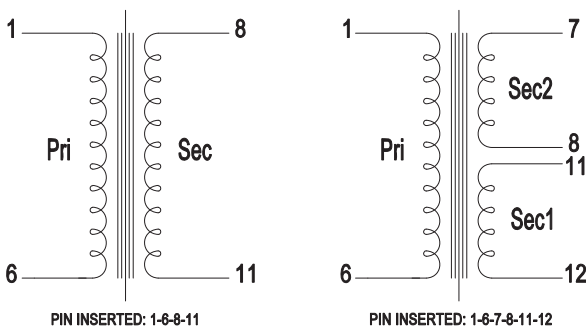
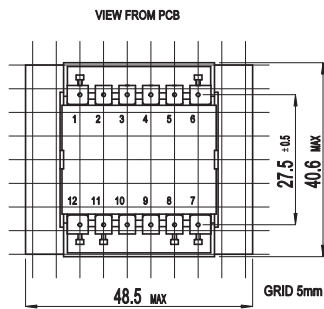
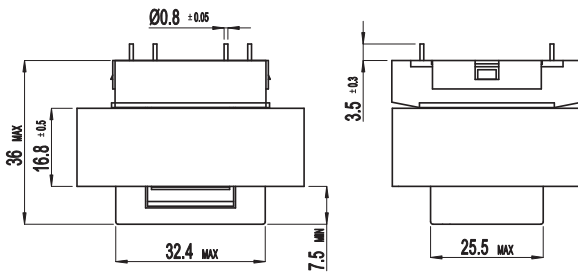
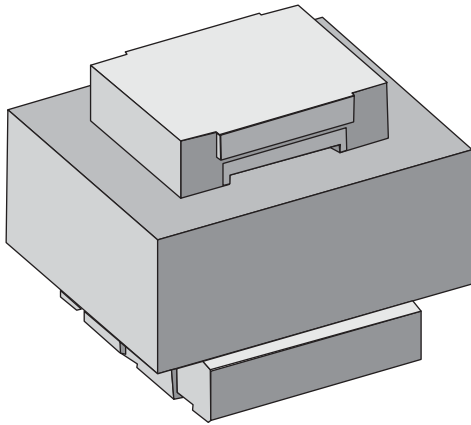
Model	Primary	Power	Secondary	Weight
	V	VA	n. x V	g
T42045E1060C7	230	4,5	1 x 6	165
T42045E1070C7	230	4,5	1 x 7	165
T42045E1080C7	230	4,5	1 x 8	165
T42045E1090C7	230	4,5	1 x 9	165
T42045E1100C7	230	4,5	1 x 10	165
T42045E1110C7	230	4,5	1 x 11	165
T42045E1120C7	230	4,5	1 x 12	165
T42045E1130C7	230	4,5	1 x 13	165
T42045E1140C7	230	4,5	1 x 14	165
T42045E1150C7	230	4,5	1 x 15	165
T42045E1160C7	230	4,5	1 x 16	165
T42045E1170C7	230	4,5	1 x 17	165
T42045E1180C7	230	4,5	1 x 18	165
T42045E1190C7	230	4,5	1 x 19	165
T42045E1200C7	230	4,5	1 x 20	165
T42045E1210C7	230	4,5	1 x 21	165
T42045E1220C7	230	4,5	1 x 22	165
T42045E1230C7	230	4,5	1 x 23	165
T42045E1240C7	230	4,5	1 x 24	165
T42045E1250C7	230	4,5	1 x 25	165
T42045E2060C7	230	4,5	2 x 6	165
T42045E2090C7	230	4,5	2 x 9	165
T42045E2120C7	230	4,5	2 x 12	165
T42045E2150C7	230	4,5	2 x 15	165
T42045E2180C7	230	4,5	2 x 18	165

EI 48 P16.5

Safety
transformers



Power rating 7.5VA
Designed for use with a protection fuse on the secondary
to be installed by the user
Ambient temperature 70 °C
Approval EN 61558-1, EN 61558-2-6



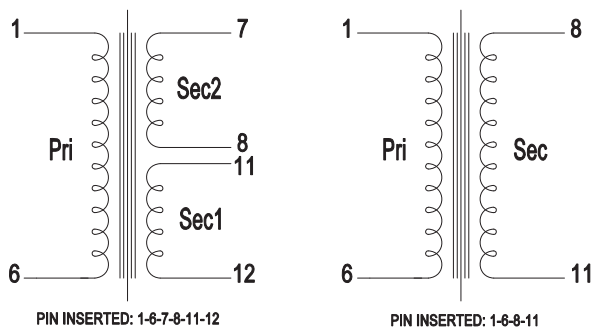
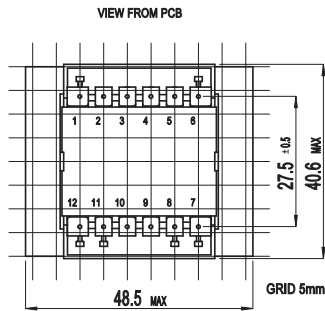
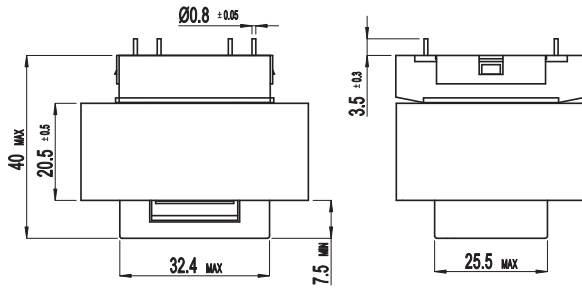
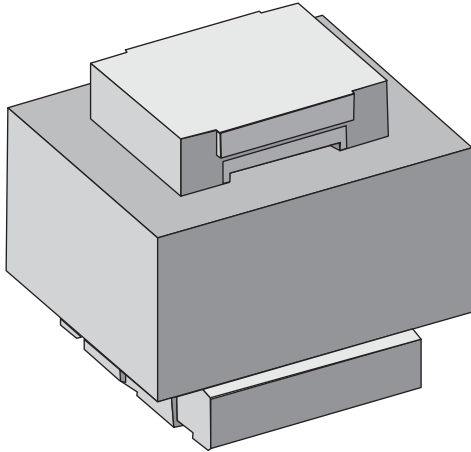
Model	Primary	Power	Secondary	Weight
	V	VA	n. x V	g
T48060E1060C7	230	6	1 x 6	268
T48060E1070C7	230	6	1 x 7	268
T48060E1080C7	230	6	1 x 8	268
T48060E1090C7	230	6	1 x 9	268
T48060E1100C7	230	6	1 x 10	268
T48060E1110C7	230	6	1 x 11	268
T48060E1120C7	230	6	1 x 12	268
T48060E1130C7	230	6	1 x 13	268
T48060E1140C7	230	6	1 x 14	268
T48060E1150C7	230	6	1 x 15	268
T48060E1160C7	230	6	1 x 16	268
T48060E1170C7	230	6	1 x 17	268
T48060E1180C7	230	6	1 x 18	268
T48060E1190C7	230	6	1 x 19	268
T48060E1200C7	230	6	1 x 20	268
T48060E1210C7	230	6	1 x 21	268
T48060E1220C7	230	6	1 x 22	268
T48060E1230C7	230	6	1 x 23	268
T48060E1240C7	230	6	1 x 24	268
T48060E1250C7	230	6	1 x 25	268
T48060E2060C7	230	6	2 x 6	268
T48060E2090C7	230	6	2 x 9	268
T48060E2120C7	230	6	2 x 12	268
T48060E2150C7	230	6	2 x 15	268
T48060E2180C7	230	6	2 x 18	268
T48075E1060C7	230	7,5	1 x 6	268
T48075E1070C7	230	7,5	1 x 7	268
T48075E1080C7	230	7,5	1 x 8	268
T48075E1090C7	230	7,5	1 x 9	268
T48075E1100C7	230	7,5	1 x 10	268
T48075E1110C7	230	7,5	1 x 11	268
T48075E1120C7	230	7,5	1 x 12	268
T48075E1130C7	230	7,5	1 x 13	268
T48075E1140C7	230	7,5	1 x 14	268
T48075E1150C7	230	7,5	1 x 15	268
T48075E1160C7	230	7,5	1 x 16	268
T48075E1170C7	230	7,5	1 x 17	268
T48075E1180C7	230	7,5	1 x 18	268
T48075E1190C7	230	7,5	1 x 19	268
T48075E1200C7	230	7,5	1 x 20	268
T48075E1210C7	230	7,5	1 x 21	268
T48075E1220C7	230	7,5	1 x 22	268
T48075E1230C7	230	7,5	1 x 23	268
T48075E1240C7	230	7,5	1 x 24	268
T48075E1250C7	230	7,5	1 x 25	268
T48075E1270C7	230	7,5	1 x 27	268
T48075E2060C7	230	7,5	2 x 6	268
T48075E2090C7	230	7,5	2 x 9	268
T48075E2120C7	230	7,5	2 x 12	268
T48075E2150C7	230	7,5	2 x 15	268
T48075E2180C7	230	7,5	2 x 18	268

EI 48 P20.5

Safety
transformers



Power rating 10VA
Designed for use with a protection fuse on the secondary
to be installed by the user
Ambient temperature 70 °C
Approval EN 61558-1, EN 61558-2-6



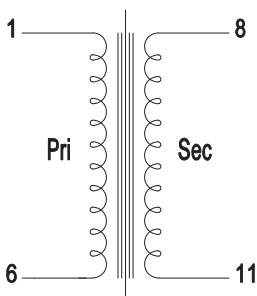
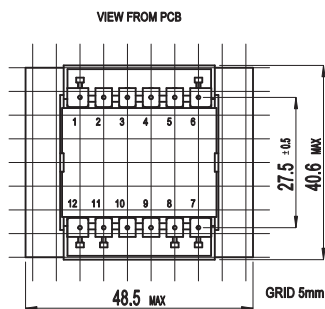
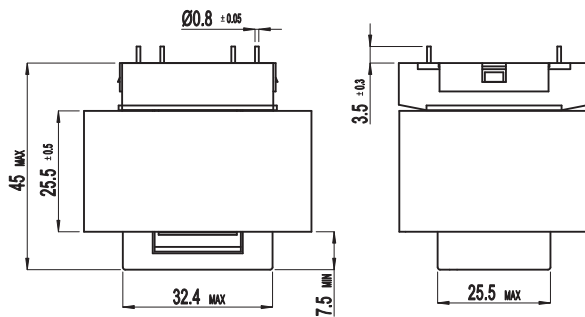
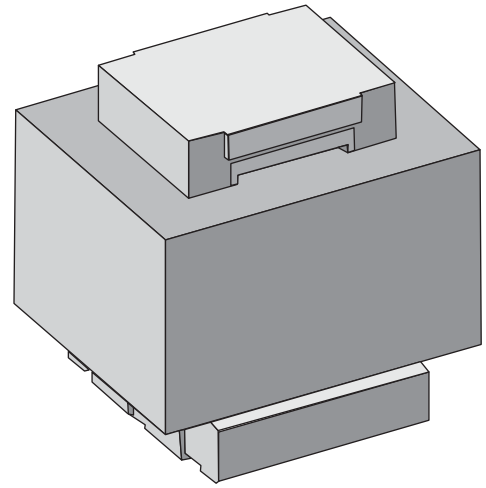
Model	Primary	Power	Secondary	Weight
	V	VA	n. x V	
T48080E1060C7	230	8	1 x 6	307
T48080E1070C7	230	8	1 x 7	307
T48080E1080C7	230	8	1 x 8	307
T48080E1090C7	230	8	1 x 9	307
T48080E1100C7	230	8	1 x 10	307
T48080E1110C7	230	8	1 x 11	307
T48080E1120C7	230	8	1 x 12	307
T48080E1130C7	230	8	1 x 13	307
T48080E1140C7	230	8	1 x 14	307
T48080E1150C7	230	8	1 x 15	307
T48080E1160C7	230	8	1 x 16	307
T48080E1170C7	230	8	1 x 17	307
T48080E1180C7	230	8	1 x 18	307
T48080E1190C7	230	8	1 x 19	307
T48080E1200C7	230	8	1 x 20	307
T48080E1210C7	230	8	1 x 21	307
T48080E1220C7	230	8	1 x 22	307
T48080E1230C7	230	8	1 x 23	307
T48080E1240C7	230	8	1 x 24	307
T48080E1250C7	230	8	1 x 25	307
T48080E2060C7	230	8	2 x 6	307
T48080E2090C7	230	8	2 x 9	307
T48080E2120C7	230	8	2 x 12	307
T48080E2150C7	230	8	2 x 15	307
T48080E2180C7	230	8	2 x 18	307
T48100E1060C7	230	10	1 x 6	307
T48100E1070C7	230	10	1 x 7	307
T48100E1080C7	230	10	1 x 8	307
T48100E1090C7	230	10	1 x 9	307
T48100E1100C7	230	10	1 x 10	307
T48100E1110C7	230	10	1 x 11	307
T48100E1120C7	230	10	1 x 12	307
T48100E1130C7	230	10	1 x 13	307
T48100E1140C7	230	10	1 x 14	307
T48100E1150C7	230	10	1 x 15	307
T48100E1160C7	230	10	1 x 16	307
T48100E1170C7	230	10	1 x 17	307
T48100E1180C7	230	10	1 x 18	307
T48100E1190C7	230	10	1 x 19	307
T48100E1200C7	230	10	1 x 20	307
T48100E1210C7	230	10	1 x 21	307
T48100E1220C7	230	10	1 x 22	307
T48100E1230C7	230	10	1 x 23	307
T48100E1240C7	230	10	1 x 24	307
T48100E1250C7	230	10	1 x 25	307
T48100E2060C7	230	10	2 x 6	307
T48100E2090C7	230	10	2 x 9	307
T48100E2120C7	230	10	2 x 12	307
T48100E2150C7	230	10	2 x 15	307
T48100E2180C7	230	10	2 x 18	307

EI 48 P25.5

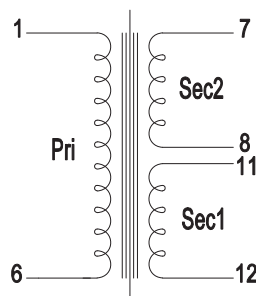
Safety
transformers



Power rating 12VA
Designed for use with a protection fuse on the secondary
to be installed by the user
Ambient temperature
Approval EN 61558-1, EN 61558-2-6



PIN INSERTED: 1-6-8-11



PIN INSERTED: 1-6-7-8-11-12

Model	Primary	Power	Secondary	Weight
	V	VA	n. x V	
T48120E1060C7	230	12	1 x 6	366
T48120E1070C7	230	12	1 x 7	366
T48120E1080C7	230	12	1 x 8	366
T48120E1090C7	230	12	1 x 9	366
T48120E1100C7	230	12	1 x 10	366
T48120E1110C7	230	12	1 x 11	366
T48120E1120C7	230	12	1 x 12	366
T48120E1130C7	230	12	1 x 13	366
T48120E1140C7	230	12	1 x 14	366
T48120E1150C7	230	12	1 x 15	366
T48120E1160C7	230	12	1 x 16	366
T48120E1170C7	230	12	1 x 17	366
T48120E1180C7	230	12	1 x 18	366
T48120E1190C7	230	12	1 x 19	366
T48120E1200C7	230	12	1 x 20	366
T48120E1210C7	230	12	1 x 21	366
T48120E1220C7	230	12	1 x 22	366
T48120E1230C7	230	12	1 x 23	366
T48120E1240C7	230	12	1 x 24	366
T48120E1250C7	230	12	1 x 25	366
T48120E2060C7	230	12	2 x 6	366
T48120E2090C7	230	12	2 x 9	366
T48120E2120C7	230	12	2 x 12	366
T48120E2150C7	230	12	2 x 15	366
T48120E2180C7	230	12	2 x 18	366

EE 20

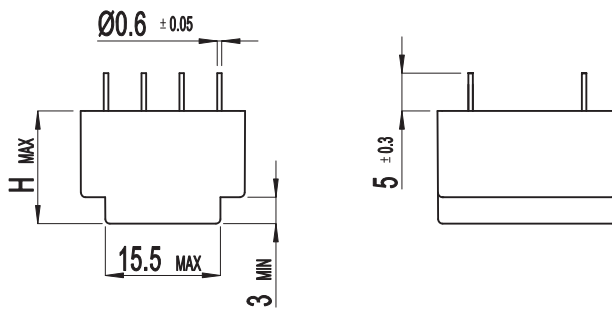
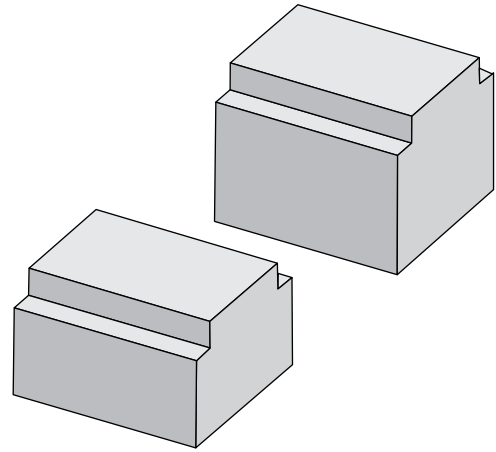
Safety transformers

Max power rating 0,5VA
 Ambient temperature 40/70°C
 Thermal class B
 (1) ENEC approval (pri.230V)
 (2) UL approval (pri.115V & 230V)
 (3) VDE approval (pri.115V & 230V)
 Constructed according to:
 EN 61558-1, EN 61558-2-6, UL 1585

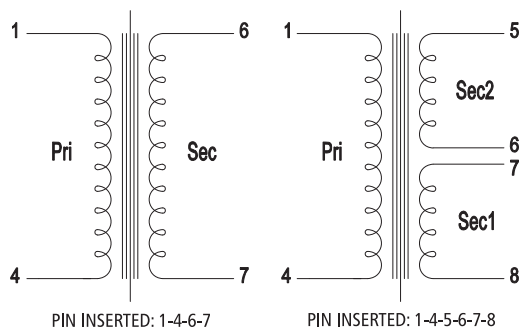
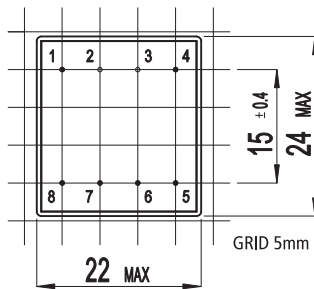
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Protection

- (A) Inherently short-circuit proof
- (T) with thermal fuse
- (F) not short-circuit proof



VIEW FROM PCB



ta 70°C

Stack height	Approval	H	#	Power	Secondary		Weight
					1x()V	2x()V	
6,1		15,2	A	0,35	4...24	2...14	28
10,5		19,5	A	0,5	4...24	2...14	38

EI 30

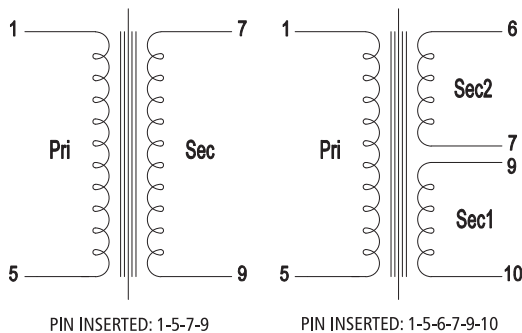
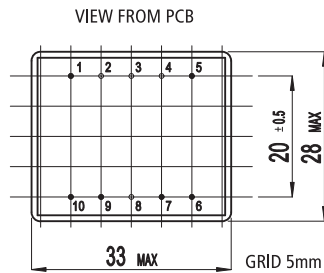
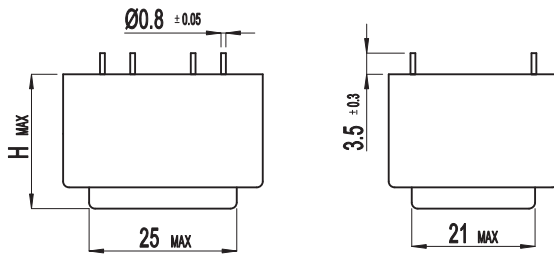
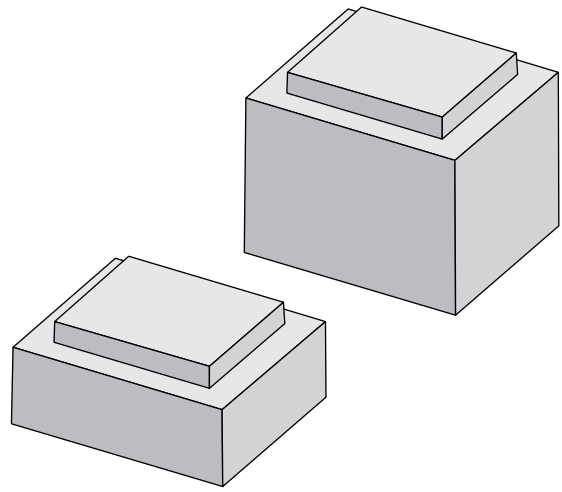
Safety transformers



Max power rating 3.5VA
 Ambient temperature 40/70°C
 Thermal class B
 (1) ENEC approval (pri.230V)
 (2) UL approval (pri.115V & 230V)
 (3) VDE approval (pri.115V & 230V)
 Constructed according to:
 EN 61558-1, EN 61558-2-6, UL 1585

* Thermal class B
 VDE & UL approval 230V
 UL approval 115V

Protection
 (A) Inherently short-circuit proof
 (T) with thermal fuse
 (F) not short-circuit proof



ta 40°C

Stack height	Approval	H	#	Power	Secondary		Weight
					1x()V	2x()V	
		mm		VA			g
10		22	A	1,5	6...25	6...14	72
12,5		24,2	A	1,7	6...25	6...14	85
15		27,2	A	2	6...25	6...14	98
18		29,7	A	2,3	6...25	6...14	115
23		34,8	A	3,5	6...25	6...14	137

ta 70°C

Stack height	Approval	H	#	Power	Secondary		Weight
					1x()V	2x()V	
		mm		VA			g
5		15,7	A	0,5	6...25	6...14	44
10	1-2-3	22	A	1,5	6...25	6...14	72
12,5	1-2-3	24,2	A	1,7	6...25	6...14	85
15	1-2-3	27,2	A	2	6...25	6...14	98
18	1-2-3	29,7	A	2,3	6...25	6...14	115
18*	2-3	29,7	A	2,8	12		115
23	2	34,8	A	2,8	6...25	6...14	137

EI 38

Safety transformers

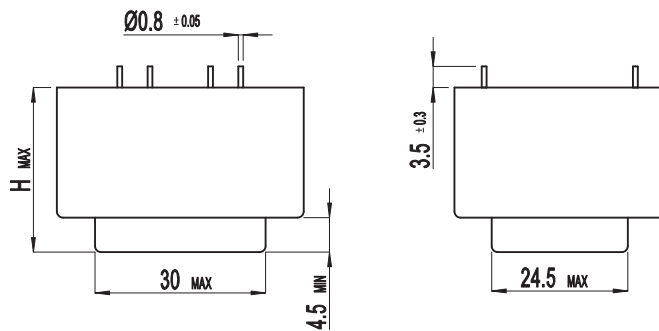
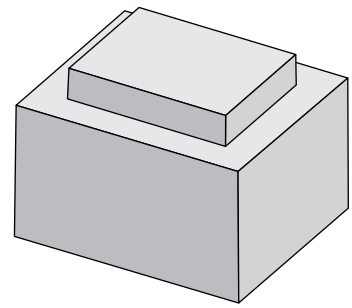


Max power rating 5VA
 Ambient temperature 40/70°C
 Thermal class B
 (1) ENEC approval (pri.230V)
 (2) UL approval (pri.115V & 230V)
 (3) VDE approval (pri.115V & 230V)
 Constructed according to:
 EN 61558-1, EN 61558-2-6, UL 1585

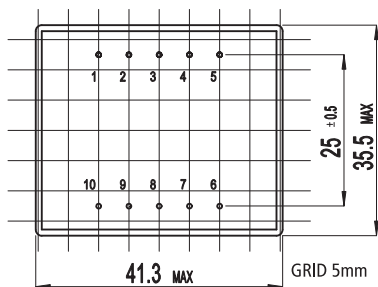
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Protection

- (A) Inherently short-circuit proof
- (T) with thermal fuse
- (F) not short-circuit proof



VIEW FROM PCB

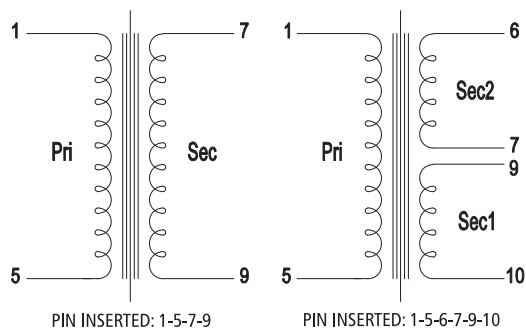


ta 40°C

Stack height	Approval	H	#	Power	Secondary		Weight
					1x()V	2x()V	
13,5		28,2	A	3,2	6...30	6...18	150
13,5		28,2	T	5	6...30	6...18	150
13,5		28,2	F	4,5	6...30	6...18	150

ta 70°C

Stack height	Approval	H	#	Power	Secondary		Weight
					1x()V	2x()V	
13,5	1	28,2	T	4,5	6...30	6...18	150
13,5		28,2	F	4	6...30	6...18	150



EI 42

Safety transformers

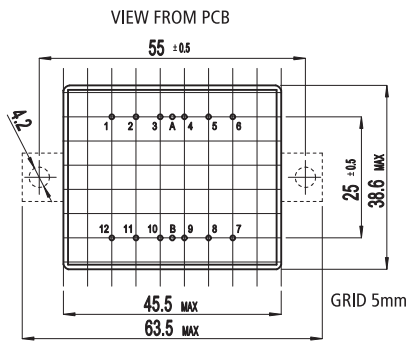
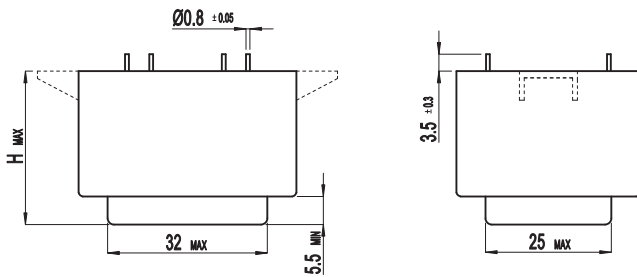
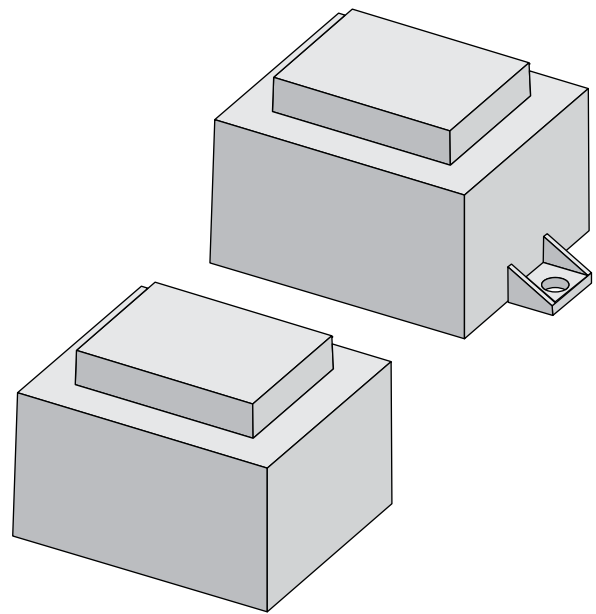


Max power rating 8.5VA
 Ambient temperature 40/70°C
 Thermal class B
 (1) ENEC approval (pri.230V)
 (2) UL approval (pri.115V & 230V)
 (3) VDE approval (pri.115V & 230V)
 Constructed according to:
 EN 61558-1, EN 61558-2-6, UL 1585

#

Protection

- (A) Inherently short-circuit proof
- (T) with thermal fuse
- (F) not short-circuit proof

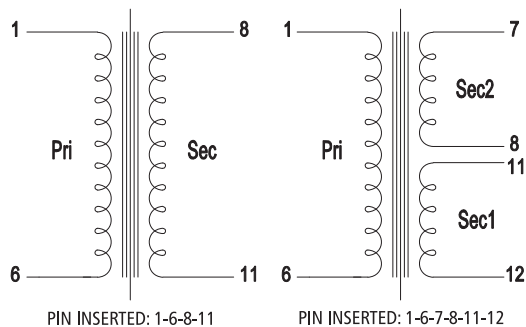


ta 40°C

Stack height	Approval	H	#	Power	Secondary		Weight
					1x()V	2x()V	
		mm		VA			g
14,8		32,3	T	6,5	6...30	6...18	198
14,8		32,3	F	6	6...30	6...18	198
20		38	T	8,5	6...30	6...18	254
20		38	F	6	6...30	6...18	254

ta 70°C

Stack height	Approval	H	#	Power	Secondary		Weight
					1x()V	2x()V	
		mm		VA			g
14,8	1	32,3	T	5,8	6...30	6...18	198
14,8		32,3	F	5	6...30	6...18	198
20	1	38	T	8	6...30	6...18	254
20		38	F	7	6...30	6...18	254



EI 48

Safety transformers

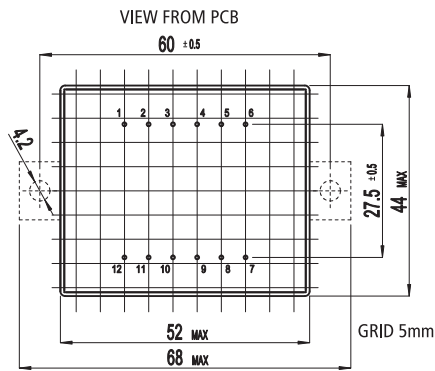
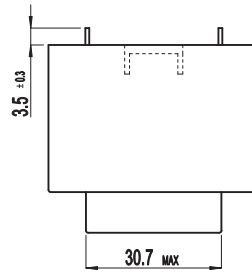
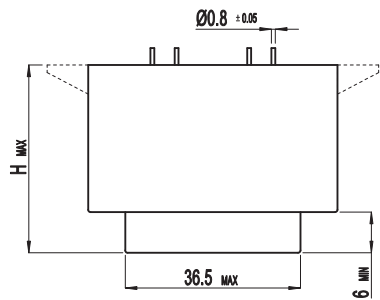
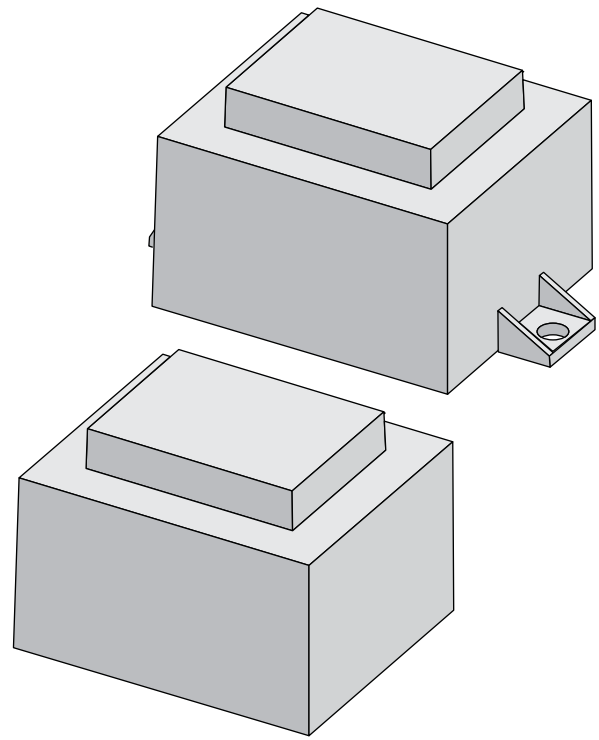


Max power rating 15VA
 Ambient temperature 40/70°C
 Thermal class B
 (1) ENEC approval (pri.230V)
 (2) UL approval (pri.115V & 230V)
 (3) VDE approval (pri.115V & 230V)
 Constructed according to:
 EN 61558-1, EN 61558-2-6, UL 1585

#

Protection

- (A) Inherently short-circuit proof
- (T) with thermal fuse
- (F) not short-circuit proof

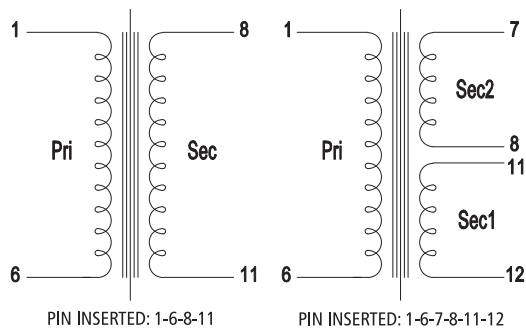


ta 40°C

Stack height	Approval	H	#	Power	Secondary		Weight
		mm			VA	1x()V	
16,5		35/38	T	12	6...36	6...18	293
16,5		35/38	F	11	6...36	6...18	293
20,5		39/42	T	15	6...36	6...18	358
20,5		39/42	F	13	6...36	6...18	358

ta 70°C

Stack height	Approval	H	#	Power	Secondary		Weight
		mm			VA	1x()V	
16,5	1	35/38	T	10	6...36	6...18	293
16,5		35/38	F	9	6...36	6...18	293
20,5	1	39/42	T	13	6...36	6...18	358
20,5		39/42	F	11	6...36	6...18	358



EI 54

Safety transformers

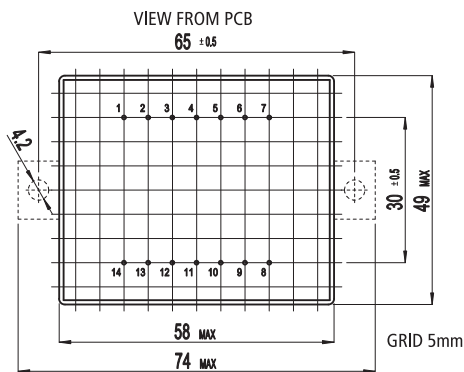
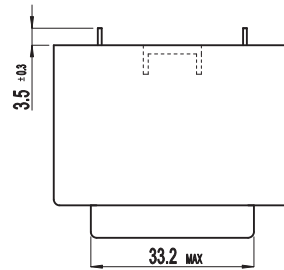
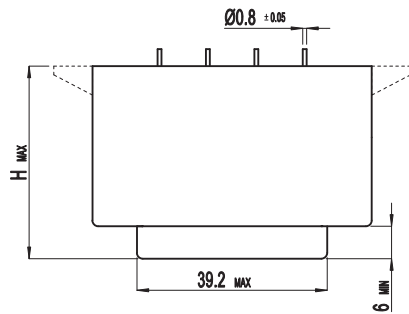
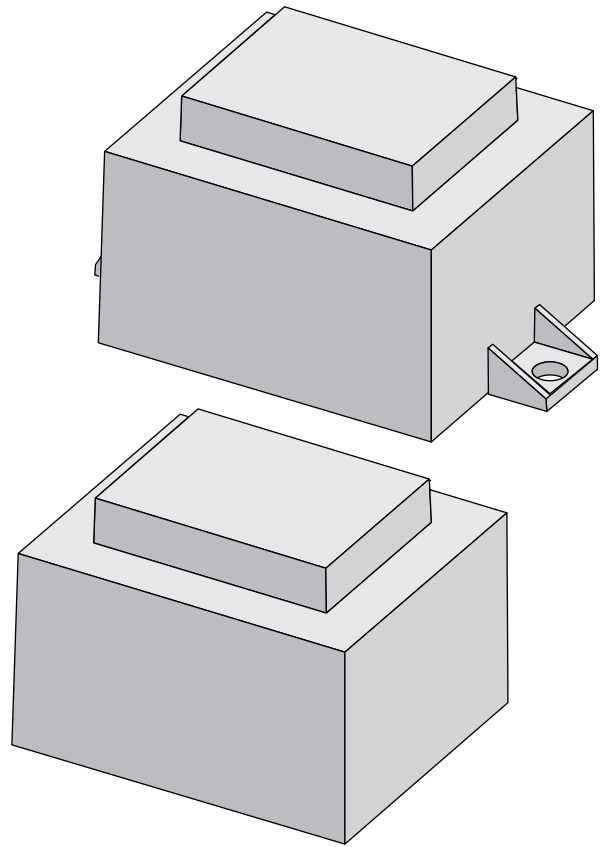


Max power rating 25VA
 Ambient temperature 40/70°C
 Thermal class B
 (1) ENEC approval (pri.230V)
 (2) UL approval (pri.115V & 230V)
 (3) VDE approval (pri.115V & 230V)
 Constructed according to:
 EN 61558-1, EN 61558-2-6, UL 1585

#

Protection

- (A) Inherently short-circuit proof
- (T) with thermal fuse
- (F) not short-circuit proof

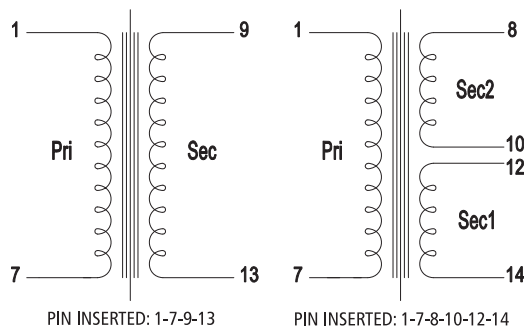


ta 40°C

Stack height	Approval	H	#	Power	Secondary		Weight
					1x()V	2x()V	
18,5		40,2	T	20	6...40	6...20	409
18,5		40,2	F	17	6...40	6...20	409
23		45	T	25	6...40	6...20	502
23		45	F	21	6...40	6...20	502

ta 70°C

Stack height	Approval	H	#	Power	Secondary		Weight
					1x()V	2x()V	
18,5	1	40,2	T	16	6...40	6...20	409
18,5		40,2	F	15	6...40	6...20	409
23	1	45	T	18	6...40	6...20	502
23		45	F	17	6...40	6...20	502



EI 60

Safety transformers

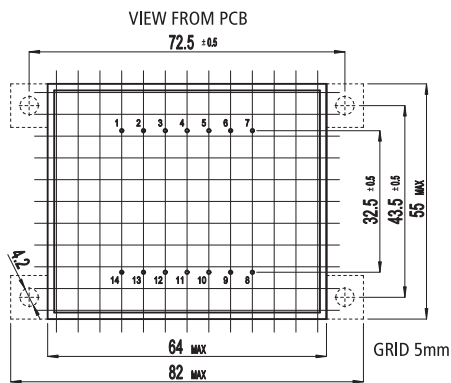
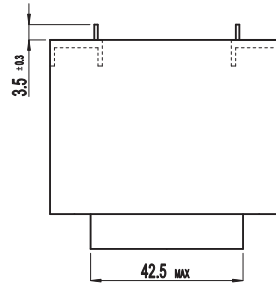
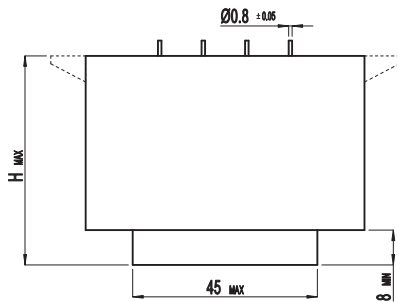
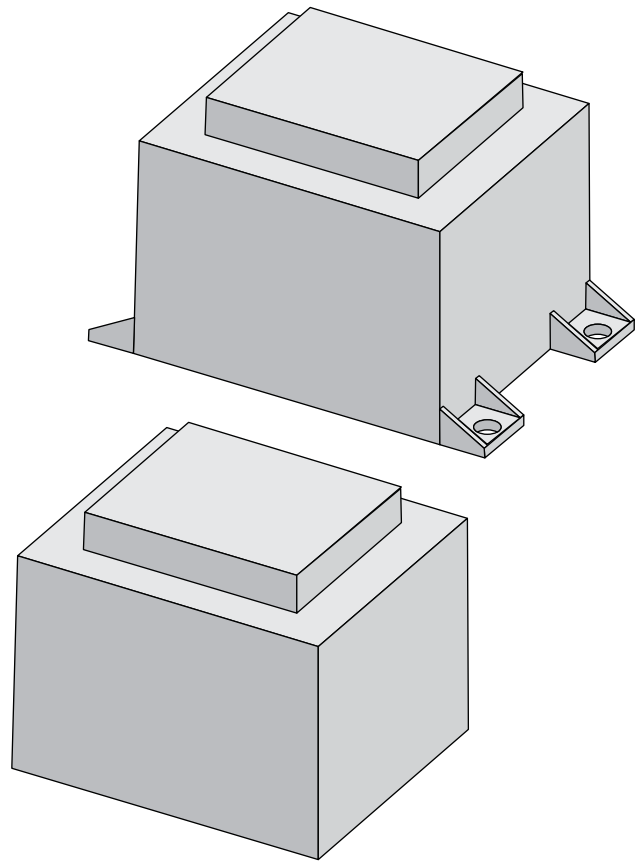


Max power rating 40VA
 Ambient temperature 40/70°C
 Thermal class B
 (1) ENEC approval (pri.230V)
 (2) UL approval (pri.115V & 230V)
 (3) VDE approval (pri.115V & 230V)
 Constructed according to:
 EN 61558-1, EN 61558-2-6, UL 1585

#

Protection

- (A) Inherently short-circuit proof
- (T) with thermal fuse
- (F) not short-circuit proof

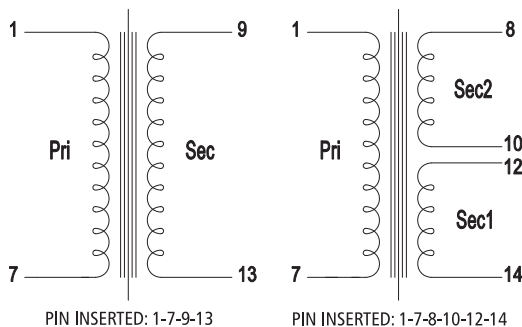


ta 40°C

Stack height	Approval	H mm	#	Power VA	Secondary		Weight g
					1x()V	2x()V	
21		45	T	30	6...40	6...20	572
21		45	F	24	6...40	6...20	572
25		50	T	34	6...40	6...20	685
25		50	F	28	6...40	6...20	685
30		55	T	40	6...40	6...20	788
30		55	F	35	6...40	6...20	788

ta 70°C

Stack height	Approval	H mm	#	Power VA	Secondary		Weight g
					1x()V	2x()V	
21	1	45	T	23	6...40	6...20	572
21		45	F	20	6...40	6...20	572
25	1	50	T	26	6...40	6...20	685
25		50	F	25	6...40	6...20	685
30	1	55	T	30	6...40	6...20	788
30		55	F	30	6...40	6...20	788



Part number identification of standard transformers

Encapsulated and non

1	2 3	4 5	6	7	8 9 10	11	12	13
Type	Lamination	Power	Primary Voltage	Number of Windings	Secondary Voltage	Type Of Protection	Ambient Temperature	Type of Fixing Bracket
R= Encapsulated T= Non-encapsulated RF= Encapsulated class F	30= EI30 38= EI38 40= EI40 42= EI42 48= EI48 54= EI54 60= EI60	50= 5VA 15= 1.5VA 05= 0.5VA	E= 230V A= 115V G= 120V I= 300V J= 100V U= 240V S= 400V D= 2X120V F= 2X115V C= 24V H= 280V L= 230/240V M= 250V N= 440V B= 125V P= 230/400V Q= 115/230V	1= 1 sec. 2= 2 sec.	120= 12V 085= 8.5V	A= Inherently Short-circuit Proof B= Fuse on Pri. C= Fuse on Sec. P= PTC T= Thermal Fuse N= None S= Thermal Switch	2= 25°C 4= 40°C 7= 70°C	O= Horizontal V= Vertical S= None A= Snap-in

R | **30** | **15** | **E** | **1** | **120** | **A** | **7** | **S**

Example of part number: R 30 15 E 1 120 A 7 S (EI 30 encapsulated 1.5VA Pri.230V one Sec.12V inherently short circuit proof ambient temp.70°C no fixing.

RF | **30** | **28** | **E** | **1** | **120** | **A** | **7** | **S**

Example of part number: RF 30 28 E 1 120 A 7 S (EI 30 encapsulated 2.8VA Pri.230V one Sec.12V inherently short circuit proof ambient temp.70°C no fixing.

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