

Toroidal transformers - custom design



Type RTV

Custom designed single-phase toroidal transformers potted in plastic house. Power range from 20VA to 630VA. Designed and tested according to EN61558, VDE0551, UL506 and UL544 standards.

The unique design and optimum conditions between dimensions and rated power makes the toroidal transformer ideal as voltage-supplier in electronic units. The plastic housing protects the transformer against hostile environments such as dust, humidity and corrosion. Prepared for class II equipment.

Custom designed models with e.g. magnetic or electrostatic shielding, thermal resetting breakers or other specifications available upon request.

Applications:

Ideal as voltage-supplier in electronic units where a rough design with low weight, flexible dimensions and optimum conditions between dimensions are preferable.



Type RTDF

Custom designed low profile single-phase toroidal transformers, power range from 20VA up to 400VA. Designed and tested according to international standards concerning safety isolating transformers such as EN61558 and UL506.

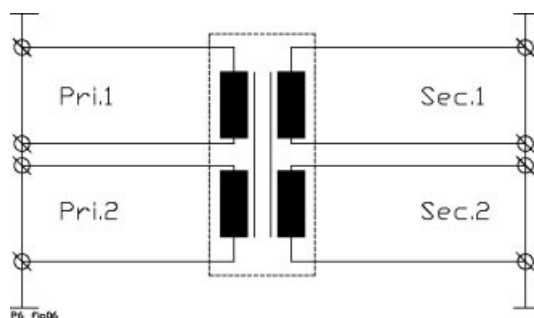
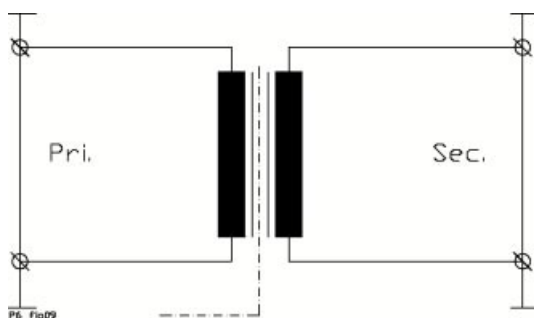
The RTDF transformers are super flat constructions with optimum conditions between dimensions and effects. This makes the RTDF transformer ideal as voltage-supplier in electronic units where extra low height is preferable.

As all Noratel toroidal transformers, custom designed models with e.g. magnetic or electrostatic shielding, thermal resetting breakers or other specifications available upon request.

Applications:

Ideal as voltage-supplier in low profile / slimline electronic equipment.

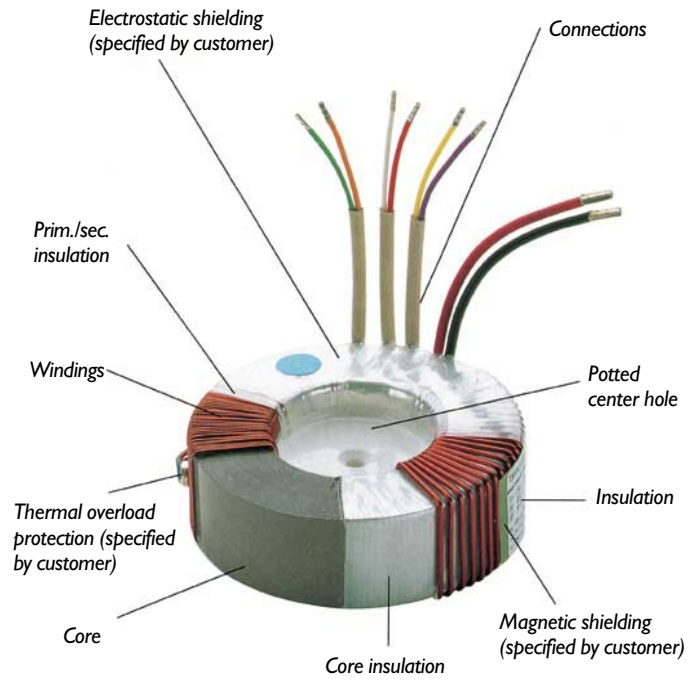
Wiring diagram - alternatives



Technical specifications

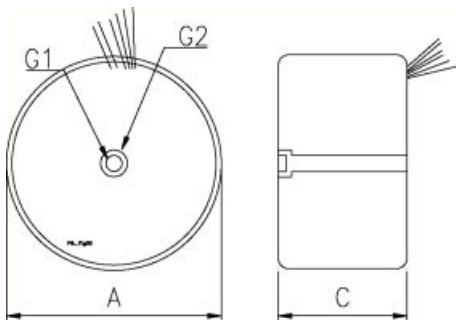
- Input voltage: max 1000V
max 600V (UL)
- Frequency: 16 ²/₃ - 400Hz
- Output voltage: max 1000V
max 600V (UL506)
- Load max 50A/outlet
- According to: EN61558 / UL506
- Test/insulating voltage: 4kV AC RMS
- Construction class: II
- Insulation class: B (130°C)
Class 105 (UL)
- Ambient temp. (t_o): 40°C
25°C (UL506)
- Degree of protection: IP00

Construction principle

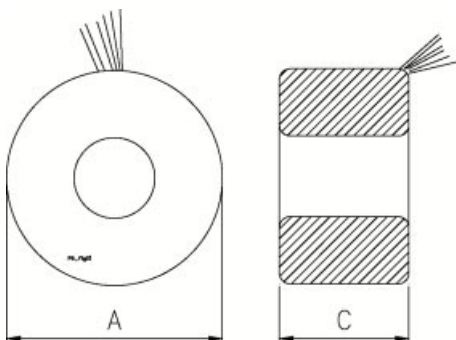


Specifications

Dimensions - Type RTV



Dimensions - Type RTDF



Power (VA)	Volt.drop (%)	Cu-loss (W)	Fe-loss (W)	Dimensions(mm)				Weight Kg
				A	C	G1	G2	
RTV								
20	<20	1,2	0,6	63	35	5,1	7	0,4
30	<20	6,2	0,6	73	40	5,1	7	0,5
40	<20	8,0	0,7	82	40	5,1	7	0,6
50	<20	8,9	0,8	82	47	5,1	7	0,7
60	<20	12,1	1,0	82	47	5,1	7	0,8
80	<15	12,2	1,3	85	50	5,1	8	1,1
100	<15	14,3	1,5	104	44	6,1	10	1,3
130	<15	17,3	1,7	104	52	6,1	13	1,6
160	<12	21,0	2,5	104	52	6,1	10	1,9
200	<11	20,1	2,9	116	55	6,1	10	2,1
250	<10	26,3	3,1	126	54	6,1	10	2,4
300	<9	28,4	3,3	126	66	6,1	10	2,9
400	<8	27,0	5,2	136	66	8,2	13	3,8
500	<7	30,0	5,8	147	65	8,2	13	4,5
630	<6	40,0	6,2	152	75	10,4	16	5,5
RTDF								
20	<20	3,9	0,5	90	18	-	-	0,45
35	<20	6,4	0,9	100	20	-	-	0,65
50	<20	7,1	1,2	105	22	-	-	0,85
60	<20	9,1	1,3	115	22	-	-	0,95
80	<15	10,5	1,7	125	23	-	-	1,20
100	<15	12,6	2,0	135	24	-	-	1,45
120	<15	16,8	2,3	145	24	-	-	1,65
150	<14	17,8	2,8	155	25	-	-	2,00
200	<13	17,9	3,8	170	26	-	-	2,55
250	<11	22,8	4,8	185	28	-	-	3,25
300	<10	23,2	5,2	195	30	-	-	3,66
400	<9	26,6	6,0	205	34	-	-	4,30