

Toroidal transformers standard range

Type RT

Single-phase toroidal transformers, power range from 20 to 300VA. Designed and tested according to EN61558. Suitable for installation in electronically equipment. Designed as a safety isolating transformer with separate insulated windings and prepared for class II equipment. Short circuit and overload protected with thermal fuse on primary side. Up to 50% less weight than a similar conventional transformer. Low magnetisation currents and no-load losses.

Applications:

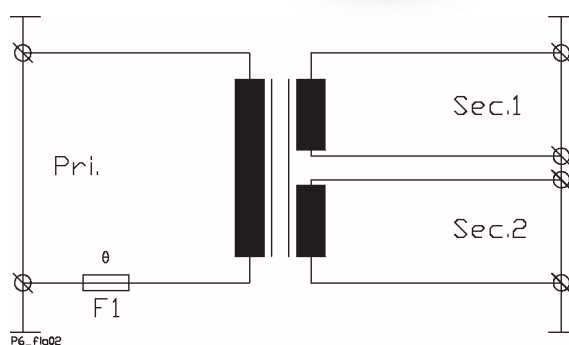
Suitable as safety isolating transformer in constructions where low weight, flexible dimensions and optimum conditions between dimensions are preferable.

Technical specifications

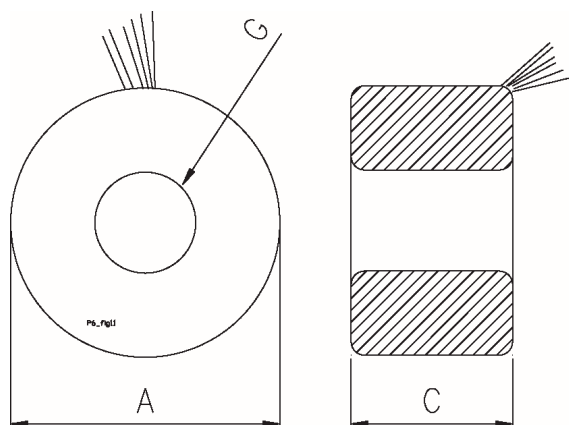
- Input voltage: 230V
- Frequency: 50-60Hz
- Output voltage: max 2x45V
- According to: EN61558
- Test/insulating voltage: 4kV AC RMS
- Construction class: II
- Insulation class: B (130°C)
- Ambient temp. (t_a): 40°C
- Degree of protection: IP00
- Supplied with rubber pads and metal washer



Wiring diagram



Dimensions



Dimensions

| Type | Power (VA) | Cu-loss (W) | Fe-loss (W) | Ø ext. A (mm) | Ø inner G (mm) | Height C (mm) | Weight (Kg) |
|-------|------------|-------------|-------------|---------------|----------------|---------------|-------------|
| RT020 | 20 | 5,6 | 0,3 | 63 | 19 | 28 | 0,3 |
| RT050 | 50 | 8,7 | 0,6 | 72 | 26 | 40 | 0,6 |
| RT080 | 80 | 13,7 | 0,9 | 78 | 26 | 47 | 0,9 |
| RT100 | 100 | 16,9 | 1,1 | 92 | 34 | 48 | 1,1 |
| RT120 | 120 | 18,3 | 1,4 | 89 | 36 | 52 | 1,4 |
| RT160 | 160 | 23,4 | 1,8 | 99 | 36 | 52 | 1,8 |
| RT200 | 200 | 24,1 | 2,1 | 108 | 36 | 52 | 2,1 |
| RT250 | 250 | 25,3 | 2,3 | 110 | 38 | 60 | 2,3 |
| RT300 | 300 | 28,7 | 2,7 | 112 | 38 | 66 | 2,7 |

Standard models

| Type | Voltage Sec. (V) | Current Sec. (A) | Power (VA) | Art. no. |
|-------------------|------------------|------------------|------------|--------------|
| 230/2x6 V | | | | |
| RT020-2006 | 2x6 | 2x1,67 | 20 | 4-115-020206 |
| RT050-2006 | 2x6 | 2x4,17 | 50 | 4-115-150206 |
| RT080-2006 | 2x6 | 2x6,67 | 80 | 4-115-108206 |
| 230/2x10 V | | | | |
| RT020-2010 | 2x10 | 2x1,0 | 20 | 4-115-102210 |
| RT050-2010 | 2x10 | 2x2,5 | 50 | 4-115-105210 |
| RT080-2010 | 2x10 | 2x4,0 | 80 | 4-115-108210 |
| RT120-2010 | 2x10 | 2x6,0 | 120 | 4-115-112210 |
| 230/11,5 V | | | | |
| RT020-1011* | 11,5 | 1,74 | 20 | 4-116-102111 |
| RT050-1011* | 11,5 | 4,35 | 50 | 4-116-105111 |
| RT100-1011* | 11,5 | 8,7 | 100 | 4-116-110111 |
| 230/2x12 V | | | | |
| RT020-2012 | 2x12 | 2x0,83 | 20 | 4-115-102212 |
| RT050-2012 | 2x12 | 2x2,08 | 50 | 4-115-105212 |
| RT080-2012 | 2x12 | 2x3,33 | 80 | 4-115-108212 |
| RT120-2012 | 2x12 | 2x5,0 | 120 | 4-115-112212 |
| RT160-2012 | 2x12 | 2x6,67 | 160 | 4-115-116212 |
| 230/2x15 V | | | | |
| RT020-2015 | 2x15 | 2x0,67 | 20 | 4-115-102215 |
| RT050-2015 | 2x15 | 2x1,67 | 50 | 4-115-105215 |
| RT080-2015 | 2x15 | 2x2,67 | 80 | 4-115-108215 |
| RT120-2015 | 2x15 | 2x4,0 | 120 | 4-115-112215 |
| RT160-2015 | 2x15 | 2x5,33 | 160 | 4-115-116215 |
| RT200-2015 | 2x15 | 2x6,67 | 200 | 4-115-120215 |
| 230/2x18 V | | | | |
| RT020-2018 | 2x18 | 2x0,56 | 20 | 4-115-102218 |
| RT050-2018 | 2x18 | 2x1,39 | 50 | 4-115-105218 |
| RT080-2018 | 2x18 | 2x2,22 | 80 | 4-115-108218 |
| RT120-2018 | 2x18 | 2x3,33 | 120 | 4-115-112218 |
| RT160-2018 | 2x18 | 2x4,44 | 160 | 4-115-116218 |
| RT200-2018 | 2x18 | 2x5,55 | 200 | 4-115-120218 |
| RT250-2018 | 2x18 | 2x6,94 | 250 | 4-115-125218 |
| RT300-2018 | 2x18 | 2x8,33 | 300 | 4-115-130218 |
| 230/2x22 V | | | | |
| RT050-2022 | 2x22 | 2x1,14 | 50 | 4-115-105222 |
| RT080-2022 | 2x22 | 2x1,82 | 80 | 4-115-108222 |
| RT120-2022 | 2x22 | 2x2,73 | 120 | 4-115-112222 |
| RT160-2022 | 2x22 | 2x3,64 | 160 | 4-115-116222 |

| Type | Voltage Sec. (V) | Current Sec. (A) | Power (VA) | Art. no. |
|-------------------|------------------|------------------|------------|--------------|
| 230/2x24 V | | | | |
| RT020-2024 | 2x24 | 2x0,42 | 20 | 4-115-102224 |
| RT050-2024 | 2x24 | 2x1,04 | 50 | 4-115-105224 |
| RT080-2024 | 2x24 | 2x1,67 | 80 | 4-115-108224 |
| RT120-2024 | 2x24 | 2x2,5 | 120 | 4-115-112224 |
| RT160-2024 | 2x24 | 2x3,33 | 160 | 4-115-116224 |
| RT200-2024 | 2x24 | 2x4,17 | 200 | 4-115-120224 |
| RT250-2024 | 2x24 | 2x5,21 | 250 | 4-115-125224 |
| RT300-2024 | 2x24 | 2x6,25 | 300 | 4-115-130224 |
| 230/2x30 V | | | | |
| RT080-2030 | 2x30 | 2x1,33 | 80 | 4-115-108230 |
| RT120-2030 | 2x30 | 2x2,0 | 120 | 4-115-112230 |
| RT160-2030 | 2x30 | 2x2,67 | 160 | 4-115-116230 |
| RT250-2030 | 2x30 | 2x4,17 | 250 | 4-115-125230 |
| 230/2x33 V | | | | |
| RT300-2033 | 2x33 | 2x4,55 | 300 | 4-115-130233 |
| 230/2x35 V | | | | |
| RT120-2035 | 2x35 | 2x1,71 | 120 | 4-115-112235 |
| RT160-2035 | 2x35 | 2x2,29 | 160 | 4-115-116235 |
| RT200-2035 | 2x35 | 2x2,78 | 200 | 4-115-120235 |
| 230/2x38 V | | | | |
| RT250-2038 | 2x38 | 2x3,29 | 250 | 4-115-125238 |
| RT300-2038 | 2x38 | 2x3,95 | 300 | 4-115-130238 |
| 230/2x40 V | | | | |
| RT160-2040 | 2x40 | 2x2,0 | 160 | 4-115-116240 |
| 230/2x42 V | | | | |
| RT200-2042 | 2x42 | 2x2,38 | 200 | 4-115-120242 |
| RT250-2042 | 2x42 | 2x2,98 | 250 | 4-115-125242 |
| RT300-2042 | 2x42 | 2x3,57 | 300 | 4-115-130242 |
| 230/2x45 V | | | | |
| RT160-2045 | 2x45 | 2x1,78 | 160 | 4-115-116245 |

*Termoswitch, $t_a = 60^\circ\text{C} / \text{B}$

Toroidal transformers with 2 secondary voltages can be used as separate series- or parallel connected.

Standard types can be supplied with potted centre hole (RTD) or potted in polyamid housings (RTV).