

# Safety isolating transformer

## RKD 250/2x18



Picture shows RKD 60 2x12

## Advantages

- Minimum size at high power
- Low weight
- Dual input voltage for series or parallel connection
- Minimal no-load losses
- Outstanding temperature behaviour thanks to low magnetic leakage field
- Very low noise field

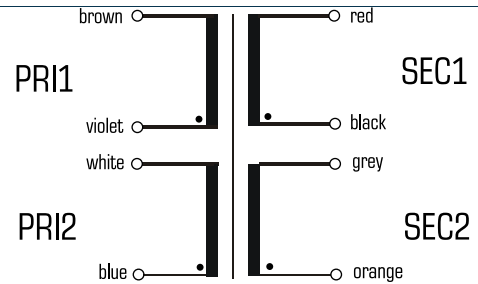
## Applications

As a mains transformer for adjustment of the voltage and simple electrical isolation.

As an isolating transformer for the safe electrical isolation of the input and output sides. The transformer may be used to set up protective separation as a protective measure in accordance with VDE 0100.

As a safety isolating transformer for the safe electrical isolation of the input and output sides. The transformer is suitable for creating SELV and PELV circuits because of the limit on the output voltage.

## Sample application



PRI:

Parallel connection (115V): brown with white/violet with blue  
 Series connection (230V): violet with white

SEC:

Parallel connection: red with grey/black with orange  
 Series connection: black with grey

## Standards



Safety isolating transformer  
 to: VDE 0570 Part 2-6, DIN EN 61558-2-6, EN 61558-2-6, IEC 61558-2-6,  
 UL 5085-1/-2, CSA 22.2 No.66

## Approvals



UL 5085-1/-2, CSA 22.2 No.66



# Safety isolating transformer

## RKD 250/2x18

| Type                    |                                 | RKD 250/2x18                 |
|-------------------------|---------------------------------|------------------------------|
| Electrical data         | Input                           |                              |
|                         | Rated input voltage             | 2 x 115 Vac                  |
|                         | Rated frequency                 | 50 - 60 Hz                   |
|                         | Output                          |                              |
|                         | Rated output voltage            | 2 x 18 Vac                   |
|                         | Rated Power                     | 250 VA                       |
|                         | No-load voltage (app. x factor) | 1.05                         |
|                         | No-load loss (typ.)             | 2.10 W                       |
|                         | Efficiency                      | 93.0 %                       |
|                         | Standards                       |                              |
|                         | Classification                  | Safety isolating transformer |
|                         | Approvals                       |                              |
|                         | Approvals                       | cURus                        |
|                         | Environment                     |                              |
|                         | Ambient temperature max.        | 40 °C                        |
|                         | Safety and protection           |                              |
|                         | Type                            | Open type                    |
|                         | Insulation class                | VDE=B, UL=class 105          |
|                         | Protection index                | IP 00                        |
| Safety class (prepared) | II                              |                              |
| Short circuit strength  | non-short-circuit proof         |                              |
| Test voltage            | 4000 Vac, 50 Hz                 |                              |
| Order numbers           |                                 |                              |
| <b>Order Number</b>     | <b>RKD 250/2x18</b>             |                              |

| Type            |   | RKD 250/2x18             |
|-----------------|---|--------------------------|
| Mechanical data | Terminal and mounting                           |                          |
|                 | Fixing method                                   | Mounting kit, M8 bolt    |
|                 | Terminals                                       | Connecting leads, 200 mm |
|                 | Measures and weights                            |                          |
|                 | Major diameter Ø                                | 114 mm                   |
|                 | Outside diameter in the area of the wire lead Ø | 117 mm                   |
|                 | Height without mounting                         | 54 mm                    |
|                 | Weight  | 2.50 kg                  |