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# Safety isolating transformer

## VBN 3,0/2/15



Picture shows VBN 2,1/2/6

## Advantages

- Minimum size at high output
- Unconditionally short-circuit proof
- Also with double output voltage for series or parallel connection
- Designed for high ambient temperatures
- Permanent corrosion protection, high insulation value and maximum electrical reliability thanks to XtraDenseFill resin encapsulation
- Coil shell in 2-chamber technology
- Self-extinguishing potting material

## Applications

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

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



## 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



ENEC 10 (VDE), UL 5085-1/-2, CSA 22.2 No.66

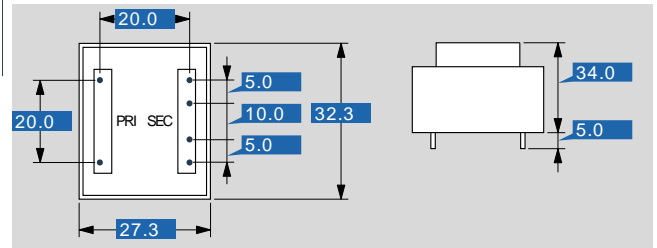


# Safety isolating transformer

## VBN 3,0/2/15

| Electrical data                 |                                |
|---------------------------------|--------------------------------|
| <b>Type</b>                     | <b>VBN 3,0/2/15</b>            |
| <b>Input</b>                    |                                |
| Rated input voltage             | 230 Vac                        |
| Rated frequency                 | 50 - 60 Hz                     |
| <b>Output</b>                   |                                |
| Rated output voltage            | 15.0 Vac                       |
| Rated Power                     | 3.0 VA                         |
| No-load voltage (app. x factor) | 1.50                           |
| No-load loss (typ.)             | 1.90 W                         |
| Efficiency                      | 52 %                           |
| <b>Standards</b>                |                                |
| Classification                  | Safety isolating transformer   |
| <b>Approvals</b>                |                                |
| Approvals                       | cURus, ENEC 10 (VDE)           |
| <b>Environment</b>              |                                |
| Ambient temperature max.        | 60 °C                          |
| <b>Safety and protection</b>    |                                |
| Type                            | Encapsulated                   |
| Class of Insulation System      | B                              |
| Protection index                | IP 00                          |
| Safety class (prepared)         | II                             |
| Short circuit strength          | inherently short-circuit proof |
| <b>Order numbers</b>            |                                |
| <b>Order Number</b>             | <b>VBN 3,0/2/15</b>            |

| Mechanical data              |                                 |
|------------------------------|---------------------------------|
| <b>Type</b>                  | <b>VBN 3,0/2/15</b>             |
| <b>Terminal and mounting</b> |                                 |
| Terminals                    | Pins for printed circuit boards |
| <b>Measures and weights</b>  |                                 |
| Pin (ø)                      | 0.8 mm                          |
| Core type                    | EI 30/23                        |
| Weight                       | 0.14 kg                         |




Subjects to change.

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| Product  | Code     | Reference       | Product link  |
|--|----------|-----------------|---|
| Short circuit proof PCB transformer Short circuit proof safety isolating transformer to IEC 61558-2-6, DIN EN 61558-2-6, VDE 0570 part 2-6, C-UL-US and ENEC 10 (VDE) Approval<br>max. 70°C ambient temperature (VB 3,2 = 50°C)<br>*Transformer to IEC 61558-2-1, DIN EN 61558-2-1, VDE 0570 part 2-1 (without VDE-Approval)<br>the dimension for the height includes the length of pins (5mm) | VBN30215 | VBN<br>3,0/2/15 |  |