

CNW 931

Single-phase sinusoidal filter 6,15% Uk



Unique Selling Point

- Low temperature rise
- Low noise
- Manufacturing according to UL Insulation System E 251513 possible
- Easy installation
- Adaptation to motor cables up to 1000 meters possible
- Saving of the shielded cable possible

Description

Smoothing of the current and voltage in order to realize long connecting paths.

- Ambient temperature: 50 °C
- Protection rating: IP 00
- Insulation class: F
- Linearity: LN bei 1,2 x IN u. $\geq 0,8$ x LN bei 1,5 x IN
- Test voltage: 3 kV
- Rated voltage: 230 V
- Uk: 6.15 %
- Overload category: 2
- Pollution degree: 2
- Cooling: AN
- Switching frequency: ≥ 4 kHz
- Current ripple: ≤ 20 % bei 4 kHz

Technical Data

- Nominal Voltage : 230 V
- Rated current : 3 - 16 A
- Inductance per strand : 2,8 - 15 mH

Circuit example



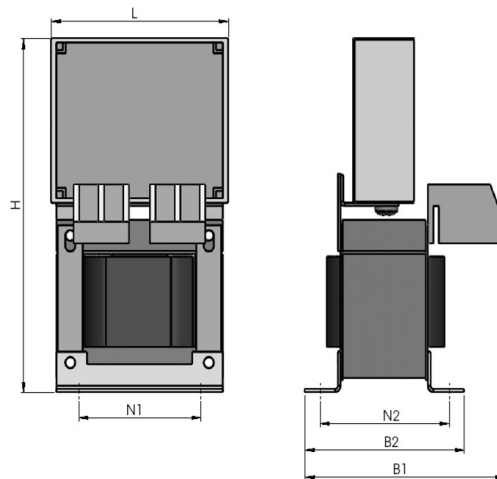
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Technical data

| Type | Rated current [A] | Inductance [mH] | Resistance R20 [mΩ] | Capacity [μF] | Power loss [W] | Uk @ 230 V | Uk @ 133 V | Uk @ 400 V | Copper [kg] |
|------------|-------------------|-----------------|---------------------|---------------|----------------|------------|------------|------------|-------------|
| CNW 931/3 | 3 | 15 | 349,5 | 6.8 | 17 | 6,2 % | 10,6 % | 3,5 % | 0,15 |
| CNW 931/4 | 4 | 11.3 | 275,2 | 10 | 22 | 6,2 % | 10,7 % | 3,6 % | 0,23 |
| CNW 931/6 | 6 | 7.5 | 133,1 | 10 | 29 | 6,2 % | 10,6 % | 3,5 % | 0,29 |
| CNW 931/8 | 8 | 5.6 | 94,4 | 20 | 33 | 6,1 % | 10,6 % | 3,5 % | 0,33 |
| CNW 931/10 | 10 | 4.5 | 62,2 | 20 | 37 | 6,2 % | 10,6 % | 3,5 % | 0,53 |
| CNW 931/12 | 12 | 3.75 | 59,9 | 20 | 43 | 6,2 % | 10,6 % | 3,5 % | 0,64 |
| CNW 931/16 | 16 | 2.8 | 43,4 | 20 | 56 | 6,1 % | 10,6 % | 3,5 % | 0,82 |

Dimension drawings



Dimensions

| Type | L [mm] | B1 [mm] | B2 [mm] | H [mm] | N1 [mm] | N2 [mm] | Terminal [mm ²] | Weight [kg] |
|------------|--------|---------|---------|--------|---------|---------|-----------------------------|-------------|
| CNW 931/3 | 64 | 72 | 59 | 115 | 44 | 47 | 1.5 mm ² | 0.9 |
| CNW 931/4 | 66 | 74 | 64 | 130 | 50 | 49 | 1.5 mm ² | 1.1 |
| CNW 931/6 | 83 | 80 | 69 | 153 | 56 | 56 | 1.5 mm ² | 1.8 |
| CNW 931/8 | 83 | 80 | 69 | 153 | 56 | 56 | 2.5 mm ² | 1.9 |
| CNW 931/10 | 84 | 90 | 84 | 160 | 71 | 71 | 2.5 mm ² | 2.5 |
| CNW 931/12 | 96 | 86 | 86 | 170 | 80 | 71 | 2.5 mm ² | 3 |
| CNW 931/16 | 96 | 110 | 110 | 170 | 80 | 95 | 2.5 mm ² | 4.4 |