



## Surge arrester

LN-class I / high follow current

|                       |                              |
|-----------------------|------------------------------|
| <b>Series/Type:</b>   | <b>LN38-A800XHC</b>          |
| <b>Ordering code:</b> | <b>B88069X7031B041</b>       |
| <b>Version/Date:</b>  | <b>Issue 02 / 2008-01-17</b> |

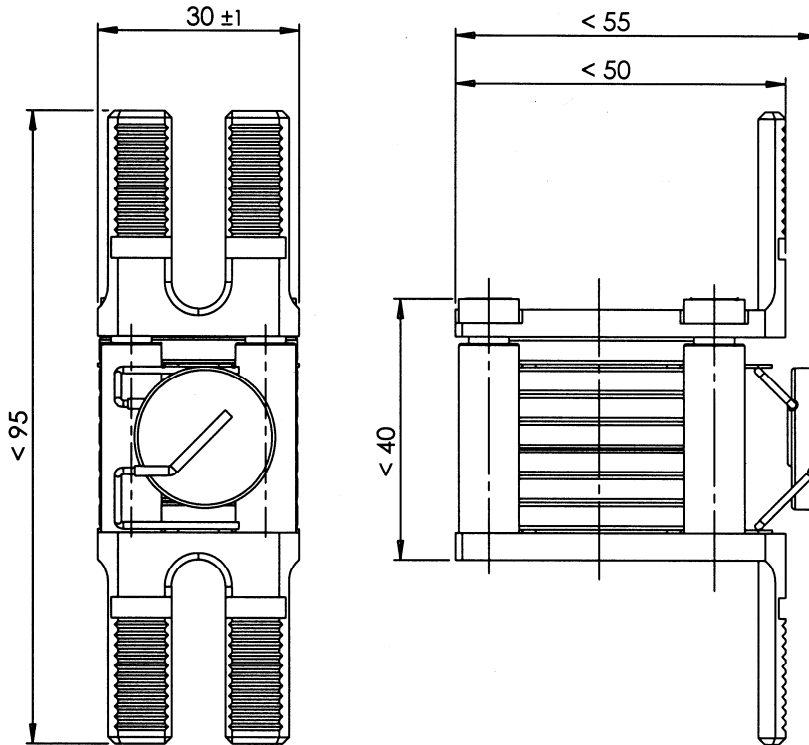
| Features                                                                                                                                                                                 | Applications                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>▪ Suitable for direct strikes</li> <li>▪ Stable performance over life</li> <li>▪ High insulation resistance</li> <li>▪ RoHS-compatible</li> </ul> | <ul style="list-style-type: none"> <li>▪ AC power lines, phase-neutral</li> <li>▪ Class I - requirements</li> </ul> |

**Electrical specifications**

|                                                                                |                                                                                                            |                                                   |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| DC spark-over voltage <sup>1) 2)</sup>                                         | > 550                                                                                                      | V                                                 |
| Impulse spark-over voltage<br>- at 1.2/50 µs, 6 kV for 99 % of measured values | < 1500                                                                                                     | V                                                 |
| Response time<br>- typical values                                              | < 100<br>< 40                                                                                              | µs<br>µs                                          |
| Insulation resistance at 100 V <sub>dc</sub>                                   | > 1                                                                                                        | GΩ                                                |
| Class I according to EN 61643-11                                               |                                                                                                            |                                                   |
| Max. continuous operating voltage at 50/60 Hz                                  | U <sub>C</sub>                                                                                             | 255                                               |
| Nominal discharge current 8/20 µs                                              | I <sub>n</sub>                                                                                             | 50                                                |
| Impulse current 10/350 µs                                                      | I <sub>imp</sub>                                                                                           | 50                                                |
| Follow current at 50/60 Hz                                                     | I <sub>f</sub>                                                                                             | 10                                                |
|                                                                                |                                                                                                            | V <sub>rms</sub><br>kA<br>kA<br>kA <sub>rms</sub> |
| Weight                                                                         | ~ 175                                                                                                      | g                                                 |
| Operation and storage temperature                                              | -40 ... +90                                                                                                | °C                                                |
| Climatic category (IEC 60068-1)                                                | 40/ 90/ 21                                                                                                 |                                                   |
| Label, blue positive                                                           | <b>EPCOS</b><br><b>800 YY O</b><br>800 - Nominal voltage<br>YY - Year of production<br>O - Non radioactive |                                                   |

<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

<sup>2)</sup> In ionized mode

**Dimensional drawing**


*Not to scale*

*Dimensions in mm*

*Non controlled document*

**Cautions and warnings**

- The surge arrester must be selected so that the maximum expected follow current can be quenched.
- The follow current must be limited so that the arrester can be properly extinguished when the surge arrester decayed.
- If the contacts of the surge arresters are defective, current stress can lead to the formation of sparks and loud noises.
- Surge arresters may become hot in case of longer periods of current stress (danger of burning).
- Surge arresters may be used only within their specified values. In case of overload, the head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

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