## Surge arrester

## 2-electrode arrester

Series/Type:<br>EM350X<br>Ordering code:<br>B88069X0590S102<br>Version/Date:<br>Issue 05 / 2007-01-11

[^0]Surge arrester

| Features | Applications |
| :--- | :--- | :--- |
| - Very small size | - Modem |
| - Fast response time | - XDSL-splitter |
| - Stable performance over life | . Tuner |
| - Extremely low capacitance |  |
| - High insulation resistance |  |
| - RoHS-compatible |  |

## Electrical specifications

| DC spark-over voltage ${ }^{1)}{ }^{2)}$ | $\begin{aligned} & 350 \\ & \pm 20 \end{aligned}$ | $\begin{aligned} & \mathrm{V} \\ & \% \end{aligned}$ |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { Impulse spark-over voltage } \\ & \begin{array}{rll} \text { at } 100 \mathrm{~V} / \mu \mathrm{s} & \text { - for } 99 \% \text { of measured values } \\ & \text { - typical values of distribution } \\ \text { at } 1 \mathrm{kV} / \mu \mathrm{s} & \text { - for } 99 \% \text { of measured values } \\ & \text { - typical values of distribution } \end{array} \end{aligned}$ | $\begin{aligned} & <800 \\ & <700 \\ & <900 \\ & <800 \end{aligned}$ | $\begin{aligned} & \mathrm{V} \\ & \mathrm{~V} \\ & \mathrm{~V} \\ & \mathrm{~V} \end{aligned}$ |
| Service life  <br> 10 operations $50 \mathrm{~Hz}, 1 \mathrm{~s}$ <br> 10 operations $8 / 20 \mu \mathrm{~s}$ <br> 1 operation $10 / 350 \mu \mathrm{~s}$ | $\begin{aligned} & 2.5 \\ & 2.5 \\ & 0.5 \end{aligned}$ | A <br> kA <br> kA |
| Insulation resistance at $100 \mathrm{~V}_{\text {dc }}$ | > 1 | $\mathrm{G} \Omega$ |
| Capacitance at 1 MHz | < 1 | pF |
| Arc voltage at 1 A Glow to arc transition current Glow voltage | $\begin{array}{\|l} \sim 11 \\ \sim 0.5 \\ \sim 0 \end{array}$ | $\begin{aligned} & V \\ & \mathrm{~A} \\ & \mathrm{~V} \end{aligned}$ |
| Weight | $\sim 1$ | g |
| Operation and storage temperature | $-40 \ldots+90$ | ${ }^{\circ} \mathrm{C}$ |
| Climatic category (IEC 60068-1) | 40/ 90/21 |  |
| Marking, red positive | EPCOS EM 350 YY O  <br> EM - Series <br> 350 - Nominal voltage <br> YY - Year of production <br> O - Non radioactive |  |

[^1]
## Surge arrester

## Dimensional drawing



## Cautions and warnings

- Surge arresters must not be operated directly in power supply networks.
- 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 lead contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.


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[^1]:    ${ }^{\text {1) }}$ ) At delivery AQL 0.65 level II, DIN ISO 2859
    ${ }^{2)}$ In ionized mode
    Terms in accordance with ITU-T Rec. K. 12 and DIN 57845/VDE0845

