

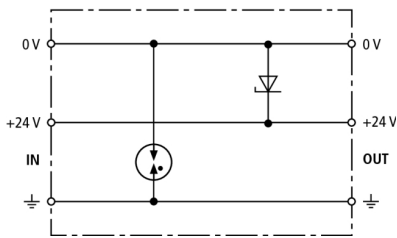


BVT AD 24 (918 402)

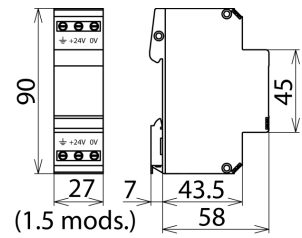
EMC protection of PLC 24 V power supply systems  
Extremely low protection level  
For installation in conformity with the lightning protection zones concept at the boundaries from 1 – 2 and higher



Figure without obligation



Basic circuit diagram BVT AD 24



Dimension drawing BVT AD 24

DIN rail mounted surge arrester for EMC protection of electronic components with d.c. voltage supply such as Siemens SPS S7-300. Since a unipolar diode is used, the polarity of the operating voltage must be observed.

| Type                                                                     | BVT AD 24                           |
|--------------------------------------------------------------------------|-------------------------------------|
| Part No.                                                                 | 918 402                             |
| SPD class                                                                | TYPE 3 P1                           |
| Nominal d.c. voltage (U <sub>N</sub> )                                   | 24 V                                |
| Max. continuous operating d.c. voltage (U <sub>C</sub> )                 | 35 V                                |
| Nominal current (I <sub>L</sub> )                                        | 10 A                                |
| C2 Total nominal discharge current (8/20 μs) (I <sub>n</sub> )           | 2 kA                                |
| C2 Nominal discharge current (8/20 μs) per line (I <sub>n</sub> )        | 1 kA                                |
| Voltage protection line-line for I <sub>n</sub> C2 (U <sub>p</sub> )     | ≤ 70 V                              |
| Voltage protection level line-PG for I <sub>n</sub> C2 (U <sub>p</sub> ) | ≤ 700 V                             |
| Voltage protection level line-line at 1 kV/μs C3 (U <sub>p</sub> )       | ≤ 50 V                              |
| Voltage protection level line-PG at 1 kV/μs C3 (U <sub>p</sub> )         | ≤ 700 V                             |
| Capacitance line-line (C)                                                | ≤ 7 nF                              |
| Capacitance line-PG (C)                                                  | ≤ 10 pF                             |
| Operating temperature range                                              | -40°C...+80°C                       |
| Degree of protection                                                     | IP 20                               |
| For mounting on                                                          | 35 mm DIN rails acc. to EN 60715    |
| Connection (input/output)                                                | screw / screw                       |
| Cross-sectional area, solid                                              | 0.5 - 4.0 mm <sup>2</sup>           |
| Cross-sectional area, flexible                                           | 0.5 - 4.0 mm <sup>2</sup>           |
| Tightening torque (terminals)                                            | 0.8 Nm                              |
| Earthing via                                                             | screw terminal                      |
| Enclosure material                                                       | thermoplastic, UL 94 V-0            |
| Colour                                                                   | yellow                              |
| Test standards                                                           | IEC 61643-21 / EN 61643-21, UL 497B |
| Approvals                                                                | CSA, GOST, UL                       |
| Weight                                                                   | 120 g                               |
| Customs tariff number                                                    | 85363010                            |
| GTIN                                                                     | 4013364077645                       |
| PU                                                                       | 1 pc(s)                             |

We reserve the right to introduce changes in performance, configuration and technology, dimensions, weights and materials in the course of technical progress. The figures are shown without obligation.