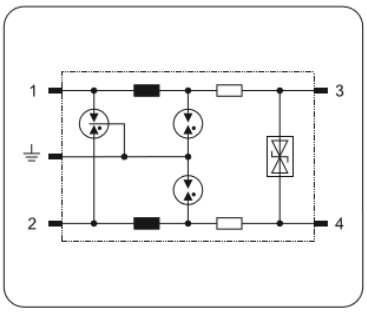
# Terminal Block Modules series DM-xxx/BX




CE

circuit diagram

**PROSURGE DM B0** data network surge arrester for double-wire systems against the damaging from surges and spikes caused by lightning and other electrical sources, suitable for use in category location B, C (ANSI/IEEE C62.41) or directly at the upstream near the protected devices.

## Technical Features

- Data network protector in according with UL497b, IEC61643-21:2012;
- Pluggable surge protection for DIN mounting;
- Signal transmission is not interrupted when exchanging module
- Limit the transients with gas discharge tubes and transzorb diodes;
- Two-stage protection circuit.
- 2 wires protection
- Suitable to use for high-frequency bus systems or telecommunication transmissions

| Type | | DM-12/BX | DM-24/BX | DM-48/BX |
|---|---|---|---|---|
| In accordance with | | UL497b,IEC 61643-21:2012 | | |
| Nominal voltage | Un | 12V- | 24V- | 48V- |
| Rated voltage (max. continuous voltage) | Uc | 14V- | 33V- | 55V- |
| Nominal current | IL | 1.0A | 1.0A | 1.0A |
| Lightning discharge current (10/350μs) | Iimp | 2KA | 2KA | 2KA |
| Nominal discharge current (8/20μs) (per line) | In | 10KA | 10KA | 10KA |
| Nominal discharge current (8/20μs) (total) | In | 20KA | 20KA | 20KA |
| Voltage protection level at Iimp (line-line) | Up | ≤ 24V | ≤ 65V | ≤ 90V |
| Voltage protection level at Iimp (line-PG) | Up | ≤550V | ≤550V | ≤550V |
| Response time | TA | ≤ 1ns (line-line) , ≤100ns (line-PG) | | |
| Bandwidth | fG | 100MHz | | |
| Series impedance per line | R | 1.0Ω | | |
| Capacitance | | ≤ 25pF (line-line) , ≤16pF(line-PG) | | |
| Operating temperature range | | -40℃...+80℃ | | |
| Cross-sectional area | | Max. 2.5mm² flexible | | |
| Mounting on | | 35mm DIN-rail in accordance with EN 50022/DIN46277-3 | | |
| Enclosure material | | thermoplastic, UL94-V0 | | |

| Certification | CE (LVD, EMC) |
|---|---|

**Installation instruction**

1. This product is connected in series to the protected devices.
2. Mount the SPD on the 35mm Din rail.
3. The out terminal should be connected to the protected devices.
4. There is a earthing terminal in each side, and it is recommended to use the one at output side, earth lead must be connected to the earthing system, ideally using 2.5mm$^2$ cable. The cable should be as short as possible.
5. After above, you should ensure the circuit is functioning.

Regularly inspect the operating status, especially after lightning
Once the communication is off, electrician should check/replace the SPD

Installation diagram: