

## AC Surge protective device for low-voltage distribution system

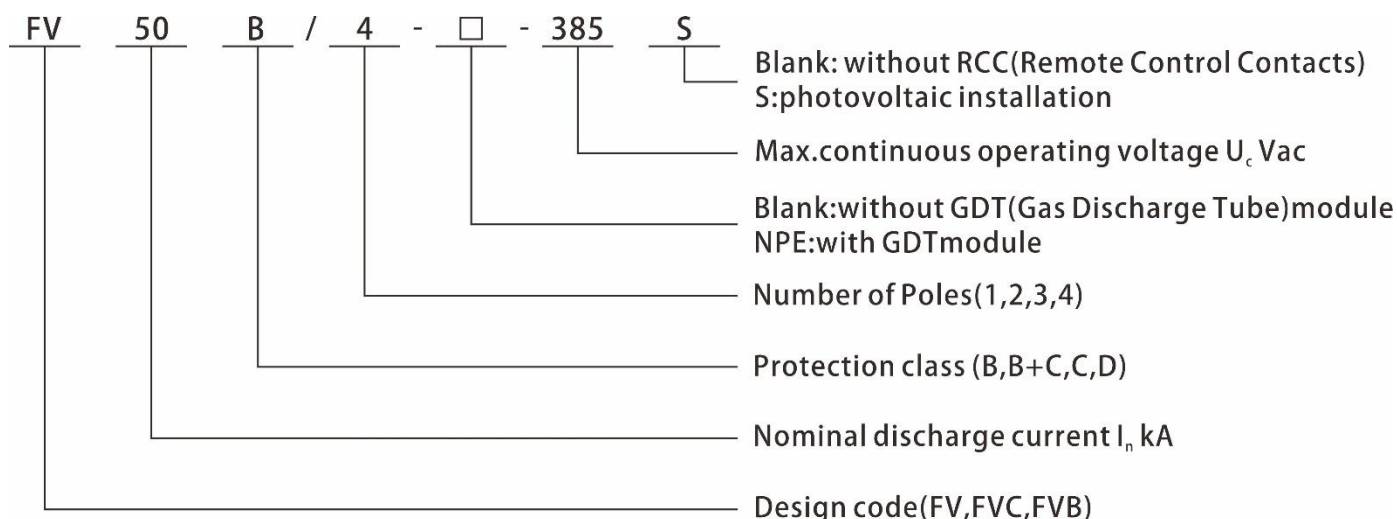
Version:B-3

Model No.: FV50B+C/2-275S

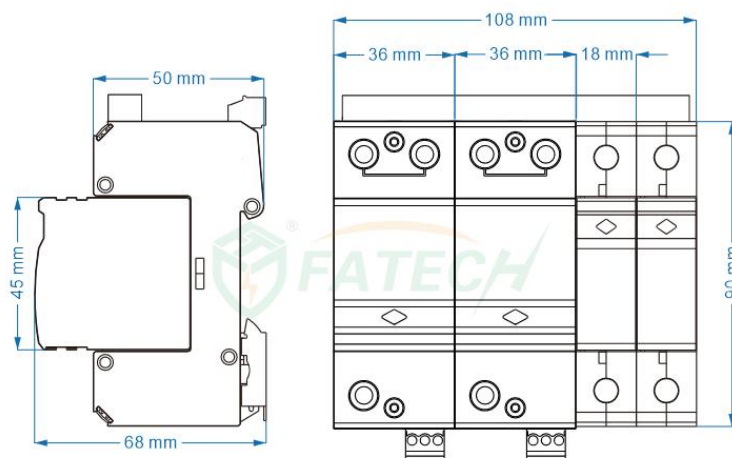


- Class I / Type 1 50kA@10/350μs & Class II / Type 2 20kA@8/20μs **surge protective devices**
- 1pc Spark Gap based SPD+1pc MOV based SPD.
- Low residual voltage and quick response.
- Reliable control thanks to Thermo Dynamic Control disconnector.
- With remote signaling contact device.
- Fault indication via red mark in the inspection window.
- Protection mode: L1-N,L2-N,L1-PE, L2-PE

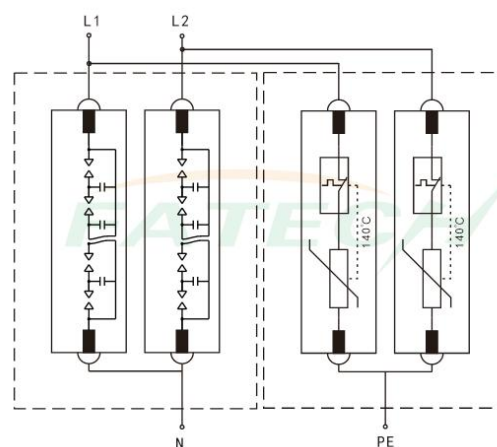
### 1.Coding



### 2. Dimension



### 3. Circuit



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#### 4. Electrical parameters

|  |   |                  |
|--|---|------------------|
| Model. No.   | FV50B/2-275S                                      | FV20C/2-275S     |
| SPD protection conforms to IEC 61643-11 / EN 61643-11        | Type 1  | Type 2           |
| SPD installation type conforms to IEC 61643-11 / EN 61643-11 | Class I   | Class II         |
| Protection level conforms to DIN VDE0675-6                   | B   | C                |
| Type of Network  | IT  |                  |
| Protection mode  | L1-N , L2-N , L1-PE, L2-PE                        |                  |
| Nominal Voltage $U_N$  | 220Vac/50(60)Hz                                   |                  |
| Maximum continuous operating voltage $U_C$                   | 275 Vac/50(60)Hz                                  | 275 Vac/50(60)Hz |
| Continuous operating current $I_C$                           | <50 $\mu$ A                                       |                  |
| Residual current $I_{PE}$                                    | $\leq 20 \mu$ A dc<br>$\leq 500 \mu$ A ac         |                  |
| Standby power consumption $P_C$                              | $\leq 25$ mVA                                     |                  |
| Nominal discharge current (8/20 $\mu$ s) $I_n$               | 50 kA   | 20 kA            |
| Maximum discharge current (8/20 $\mu$ s) $I_{max}$           | —   | 40 kA            |
| Impulse discharge current (10/350 $\mu$ s) $I_{imp}$         | 50 kA   | —                |
| Voltage protection level $U_p$                               | $\leq 1.5$ kV                                     | $\leq 1.3$ kV    |
| Isolation resistance $R_{isol}$                              | > 1000 M $\Omega$                                 |                  |
| Response time $t_A$  | $\leq 100$ ns                                     | $\leq 25$ ns     |
| Remote control contact                                       | YES   |                  |
| Disconnection indicator                                      | Mechanical indicator<br>(Green: OK, Red: Replace) |                  |
| Minimum area of connecting cable                             | 10 mm <sup>2</sup>                                |                  |
| Maximum area of connecting cable                             | 25 mm <sup>2</sup>                                |                  |
| Installation location  | Inside  |                  |
| Mounting type  | 35mm DIN rail acc. to EN 60715                    |                  |
| Color  | Gray  |                  |
| Degree of protection   | IP20  |                  |
| Housing material   | UL94V-0   |                  |
| Ambient temperature  | -40°C ~+80°C                                      |                  |
| Altitude   | $\leq 2000$ m (amsl (above mean sea level))       |                  |
| Permissible humidity   | 30%~90%   |                  |

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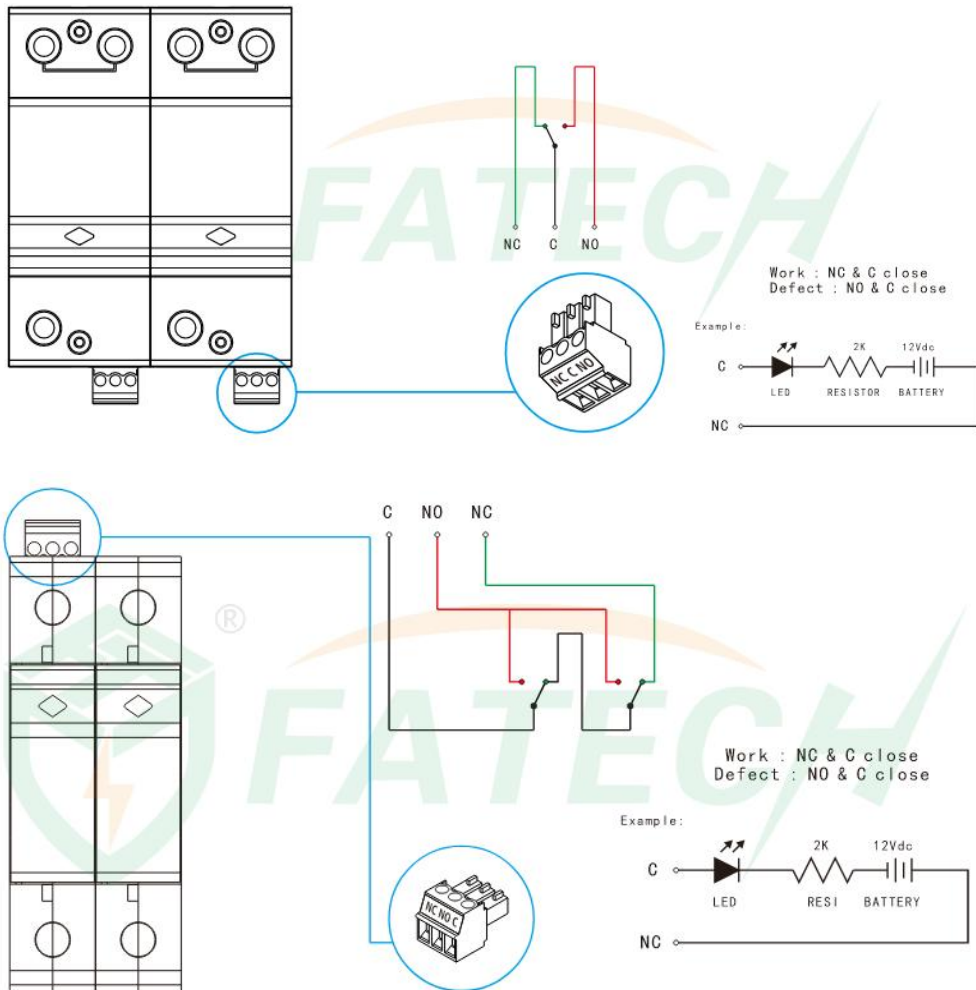
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## 5. Remote control contact



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