

# AC Surge protective device for low-voltage distribution system

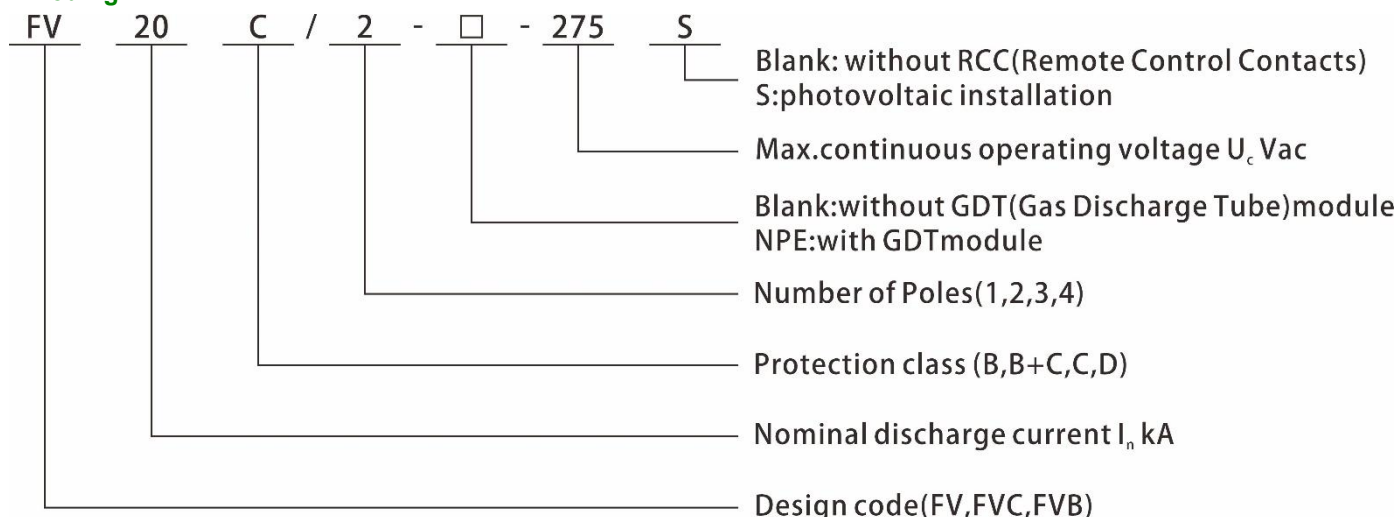
Version:B-3

Model No.: FV20C/2-275S

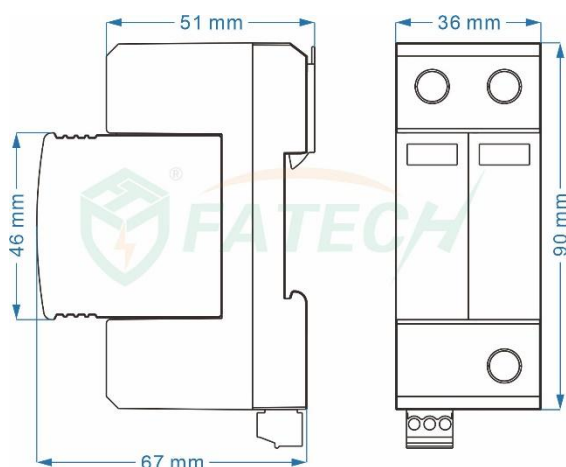


- Class II / Type 2 **surge protective devices**.
- For using in the lightning protection zones concept at boundary 1-2.
- The core parts are metal oxide vristor components with high discharge capacity.
- Reliable control thanks to Thermo Dynamic Control disconnecter.
- With remote signaling contact for control device.
- Fault indication via red mark in the inspection window.
- Protection mode --- L-PE , N-PE
- TUV certificate No. :R50312741

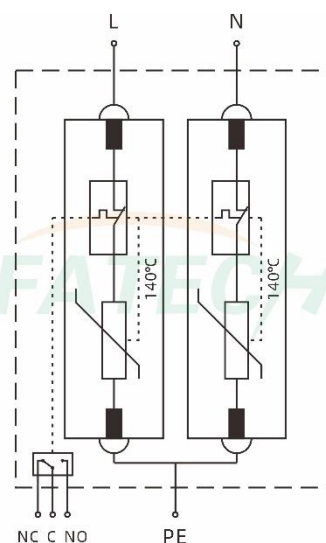
## 1.Coding



## 2. Dimension



## 3. Circuit



## FATECH ELECTRONIC (FOSHAN) CO., LTD.

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#### 4. Electrical parameters

|                                                              |                                                             |
|--------------------------------------------------------------|-------------------------------------------------------------|
| Model. No.                                                   | FV20C/2-275S                                                |
| SPD protection conforms to IEC 61643-11 / EN 61643-11        | Type 2                                                      |
| SPD installation type conforms to IEC 61643-11 / EN 61643-11 | Class II                                                    |
| Protection level conforms to DIN VDE0675-6                   | C                                                           |
| Type of Network                                              | TT , TN                                                     |
| Protection mode                                              | L→PE , N→PE                                                 |
| Nominal Voltage $U_N$                                        | 230 Vac/50(60)Hz                                            |
| Maximum continuous operating voltage $U_C$                   | 275 Vac/50(60)Hz                                            |
| Short-circuit withstand capability $I_{sccr}$                | 20 kA                                                       |
| Continuous operating current $I_C$                           | <20 $\mu$ A                                                 |
| Residual current $I_{PE}$                                    | $\leq 20 \mu$ A dc<br>$\leq 500 \mu$ A ac                   |
| Standby power consumption $P_C$                              | $\leq 25$ mVA                                               |
| Maximum discharge current (8/20 $\mu$ s) $I_{max}$           | 40 kA                                                       |
| Nominal discharge current (8/20 $\mu$ s) $I_n$               | 20 kA                                                       |
| Voltage protection level $U_p$                               | $\leq 1.3$ kV                                               |
| Isolation resistance $R_{isol}$                              | > 1000 M $\Omega$                                           |
| Response time $t_A$                                          | $\leq 25$ ns                                                |
| Remote control contact                                       | YES                                                         |
| Disconnection indicator                                      | Mechanical indicator<br>(Green: OK, Red: Replace)           |
| I/O Connections                                              | By screw terminal:10-35mm <sup>2</sup><br>By connection bus |
| 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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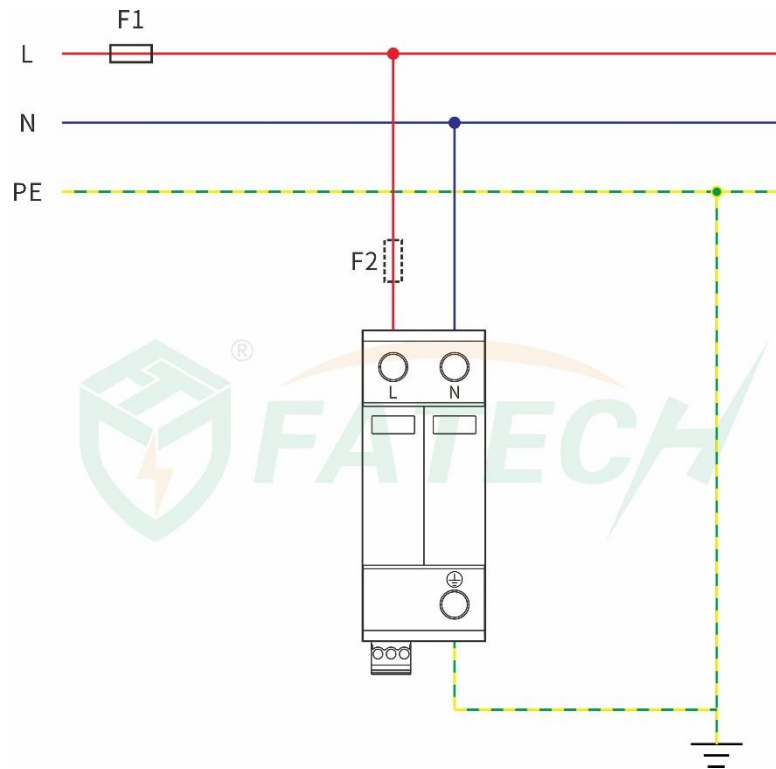
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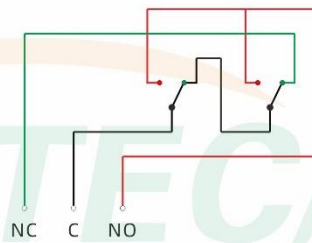
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## 5. Installation

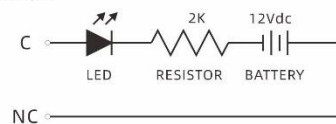


$F1 > 125A/gL/gG \rightarrow F2 = 125A/gL/gG$   
 $F1 \leq 125A/gL/gG \rightarrow \text{Ø}$



Work : NC & C close  
 Defect : NO & C close

Example:



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