



BY2-60/2.5



BY2-60/4.0



BY2-30/2.5

Technical Parameters

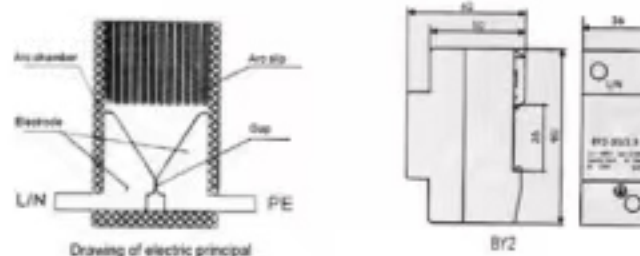
Item	BY2-30/2.5	BY2-30/4.0	BY2-60/2.5	BY2-60/4.0
Maxi continuous operating voltage U_c	385V AC	385V AC	385V AC	385V AC
Impact voltage U_f	> 1.0kV	> 1.5kV	> 1.0kV	> 1.5kV
Test grade	I	I	I	I
Insulation resistance R_{isol}	>5M	>5M	>5M	>5M
Protection voltage level U_p	< 2.5 kV	< 4.0 kV	< 2.5 kV	< 4.0 kV
Response time ns	< 100 ns	< 100 ns	< 100 ns	< 100 ns
Impulse current I_{peak}	30kA	30kA	60kA	60kA
Quantity of electric charge	15As	15As	30As	30As
Nominal discharge current (8/20US) In	100 kA	100 kA	200 kA	200 kA
Rating residual current I_p	4.5kA/250V	4.5kA/250V	6.0kA/250V	6.0kA/250V
Operating voltage of protector fuse I_n	125A	125A	250A	250A
Protection level	IP20	IP20	IP20	IP20

Main Structure and Operating Principle

The operating principal of the protector is refer to the sketch map, the electrodes are connected to the L /N line and PE line responsively, between the electrodes there will produce the electric interval. In normal situation, the protective device is high resistance, when the over voltage brings for electric network shocked by thunder or other reasons, the protective device will rapidly conduct and release the energy by arc light .As the impulse wave through it and after disappear, the protective device will recover to high resistance and not influence the normal operating.

Installation position and application

1. SPD Class B, functioning as an equipotential connection in case of lightning.
2. Installed at the joint of the LPZOA or LPZOB and LPZ1 zones.
3. It is usually installed in low voltage main distribution cabinet connected to the incoming end of the buildings.
4. It adopts 35 mm DIN rail
5. The protector is linked by 10 -35 mm² copper wire, the earth cable should choose the double color wire over 16 mm²



Usage and application scope

BY 2 series surge protective device (protector in short) is applied in A.C 50/60 Hz , ≤ 380V in the following electric power system , such as TT , IT , TN-S , TN-C and TN-C-S, applied in the equipotential connection of the joint of LPZ0A and LPZ1 or LPZ0B and LPZ1, which protects the electric net shocked by the thunder or surge over voltage. This protector also can be connected with voltage limitation type SPD to combine "3+1", used in the TT system. And it's not applied in the system overdue short circuit current over rated breaking continuous value.

Model and meaning

