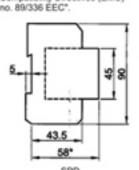
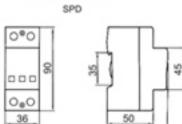
Documents corresponding to the product:

EN61 643-1 EN 61 643-1

The breakers are in accordance with the directives of EC "Low voltage directives (LVD) no. 73/23 EEC" and "Electromagnetic Compatibility Directives (EMC) no. 89/336 EEC".





₩ L/N







SPD/HHG3 Surge Arrester

The surge arrestor consists of a semi-conductor valve element that opens at certain conditions At normal conditions of the system, the surge arrestor has infinitely high resisance between the protected conductors and earthing circuit. At voltage increase due to atmospheric nature or system failure, the valve element opens and leads the excessive voltage to the grounded circuit. After reversion of the normal voltage the valve element closes. The arrestor can endure high momentary overloading.

Functions

- protection of heavy-loaded electrical circuits from overload
- used to protect not only particular consumers/circuits, but also the whole panel
- remarkable with high reliability of current characteristics
- control:automatic switching off at exit failure and recovery after eliminating th danger

Technical date

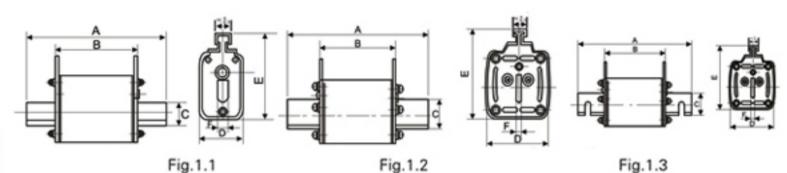
- * Rated operating voltage Uc:the operating voltage of the surge arrester 275/440v;50Hz
- * Surge voltage Up:the voltage created in surge arrester terminals at rated discharge current running:according to the tables
- * Rated discharge current In-the rated value of discharge current with a sinusoid 8/20 us, which can be repeatedly led to the ground:according to the tables
- * Full discharge current lmax-the peak value of the discharge current with a sinusoid 8/20 us, which the surge arrester can bear once:according to the table
- * Constant operating current:up to 800 uA for 1p,2p ,3p,up to 600 uA for 1p+N,3p+N
- * Indication for damaged surge arrester
- * Offered in types:1p;1p+N;3p;3p+N

Connecting

Fiexible or rigid conductors with corresponding section

Mounting

- on DIN-rail
- mounting position:vertical
- mounting in the distribution box on the front or right before the breaker according to the attached schemes
- * Breakers plastic material of UV rays and non-flammable
- * Ambient temperature:-10°C +45°C
- * Installation altitude:up to 2000m



The surge arrester selection is made according to the overload risk level or atmosphere activity,named B,C or D(from high to low risk level).

The company offers th following models of arresters:

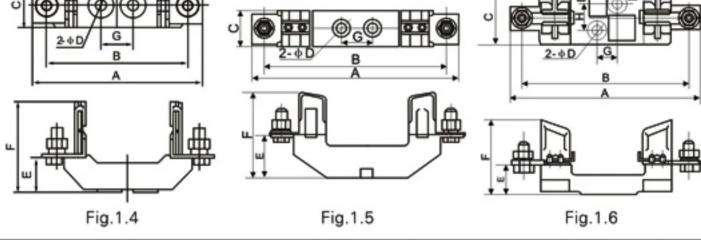
SPD-B40/3PN

SPD-B60/4PN

Model SPD-Bxxxx and HHG3-for systems with exceptionally high risk level . Mounted mainly in the beginning of the installation or in the main panel.

Model SPD-Cxxxx-for systems with high or average risk level. Mounted in the beginning of the installation or before the breaker.

Model SPD-Dxxxx-for systems with low risk level. Suitable for secondary protection of consumers in combination with SPD-Bxxxx/SPD-Cxxxx.



Type of the arrester Lmax(kA) Up(kV) In(kA) Uc(V) 5 275 SPD-D5/1P 10 1.2 SPD-C10/1P 10 20 275 1.2 20 40 275 1.8 SPD-C20/1P 40 60 275 2 SPD-B40/1P SPD-B60/1P 60 80 275 2.5 5 275 1.2 SPD-D5/1PN 10 275 1.2 SPD-C10/1PN 10 20 SPD-C20/1PN 20 40 275 1.8 275 2 SPD-B40/1PN 40 60 SPD-B60/2P 60 80 275 2.5 SPD-D5/3P 5 10 440 1.2 20 SPD-C10/3P 440 1.2 10 40 SPD-C20/3P 20 440 1.8 SPD-B40/3P 40 60 440 2 SPD-B60/3P 60 80 440 2.5 5 10 440 1.2 SPD-D5/3PN SPD-C10/3PN 10 440 20 1.2 SPD-C20/3PN 20 1.8

Type of the arrester	InkA()	lmax(kA)	Uc(V)	Up(kV)
HHG3-B60	60	100	440	2.8
HHG3-B80	80	100	440	3
HHG3-B100	100	150	440	3.2

80

40

60

2

2.5

440

440