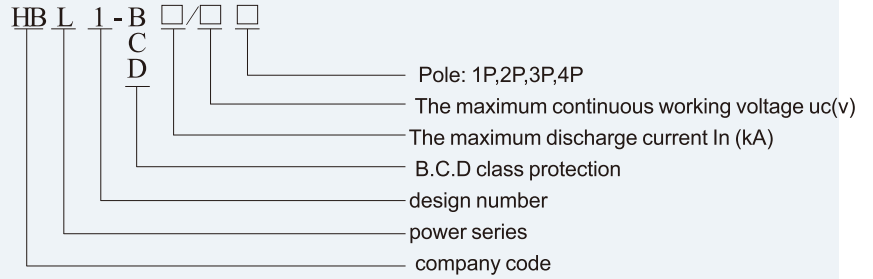


HBL1-B/C/D (SPD) surge protection device

Using Scope

HBL1 series SPD is used for power supply system such as TT, TN-S, TN-C, IT with AC 50/60 HZ and rated voltage up to 380V, it can make surge protection on the instant voltage of the indirect and direct stroke.
SPD has MC and MD protection mode.
SPD works as per GB18802.1/IEC61643-1

Size and meaning



Main Parameter

	pole	voltage U_n (V)	max continuous working voltage U_c (V)	voltage protection level U_p (kV)	discharge current I_{max} (kA)	I_n (kA)	response time(s)	working environment	usage
HBL1-C	1P	220	320/385/420	1.5	40	20	<25	-40°C~ +70°C humidity ≤90%	class 2 protection (incoming)
	2P								
	3P								
	4P								
HBL1-D	1P	380/220	320/385/420	2/1.5	20	10	<25	-40°C~ +70°C humidity ≤90%	class 2 protection (incoming)
	1P+N								
	2P								
	2P+N								
	3P								
	3P+N								
4P	380	385/420	2						

Structure

- SPD is one port, electric-shock protection, installed in the room, the voltage is restricted.
- There is built-in disconnecter in SPD, when SPD is faulty due to overheat, breakdown, the disconnecter can automatically make the SPD disconnected with grid and give indicator at the same time. The window shows green color when SPD is working at normal situation, and the window shows red color when there is faulty.
The SPD 1p+n, 2p+n, 3p+N is made of SPD+NPS zero ground protection module, and it applies to power supply system such as TT, TN-S

Installation and outline size

- It is installed in LPOZ1, or the boarder between LPZO2 and LPZOB, and it adopts standard 35mm track to install. The connected copper wire is 4-35mm², and the length is less than 500mm.
- Each pole of SPD should be protected--use fuse or mcb.

