

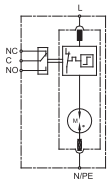
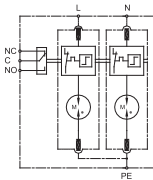
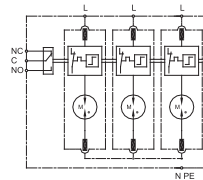
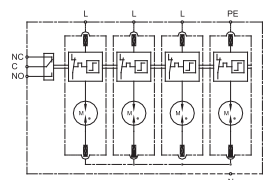
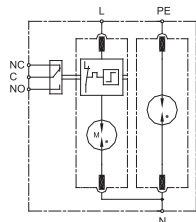
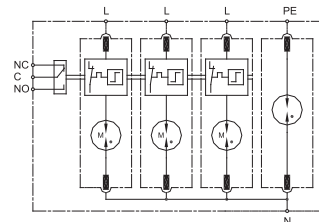
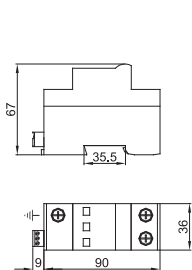
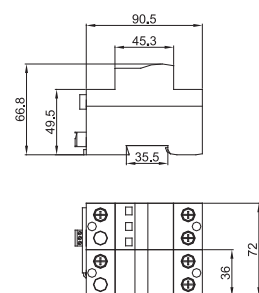
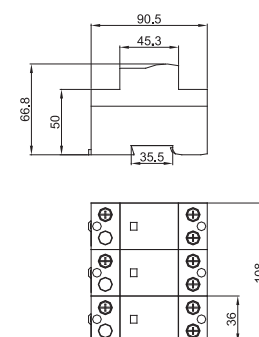
The Enerdoor surge arrester BG (G) 50 series provides advanced surge protection. This device is designed for maximum discharge of L-N 100 kA and N-PE 200 kA, meets the UL 1449 3rd edition and IEC61643-11:2011 Standards, and includes a visual and remote contact indicator.

**GENERAL CHARACTERISTICS**


Class category IEC/VDE	I + II / B+C
Operating temperature range	-40°C + 80°C
Operating humidity range	0 ~ 90%
Response time L-N (N-PE)	≤100 ns
Backup fuse (only required if not in the main)	500 Amps gL/gG
Flow current	L-N If ≥10 kARms @ 255 Vac N-PE If 100 Arms @ 255 Vac
Enclosure material	Thermoplastic, UL94 V-0
Mounting	35mm DIN rail according to the EN50022/DIN46277-3 Standard
Max size of connecting wire	Single-strand 35mm <sup>2</sup> (or # 2AWG) Multi-strand 25mm <sup>2</sup> (or # 4AWG)
Remote alarm contact type	Isolated form C
Switching capability Un/In	AC: 250V/0.5A DC: 250V/0.1A
Max size of connecting wire	Max 1.5mm <sup>2</sup> (or #16AWG)

BG (G) 50	Nominal Voltage Vac L-L (L-N)	Max Continuous Operation Voltage NPE - Vac	Nominal Discharge (In, KA) 8/20		Max Discharge Current (Imax, KA)		Voltage Protection Rated (kV)		Electrical Diagram	Case
			L-N	N-PE	L-N	N-PE	LN@In	NPE (1.2/50)		
BG.150-1P50	150	-	50	-	150	-	<1.2	-	1	1
BG.275-1P50	275	-	50	-	150	-	<1.5	-	1	1
BG.320-1P50	320	-	25	-	150	-	<1.6	-	1	1
BG.385-1P50	385	-	50	-	150	-	<1.8	-	1	1
BG.420-1P50	420	-	50	-	150	-	<2.0	-	1	1
BG.150-2P50	150	-	50	-	150	-	<1.2	-	2	2
BG.275-2P50	275	-	50	-	150	-	<1.5	-	2	2
BG.320-2P50	320	-	50	-	150	-	<1.6	-	2	2
BG.385-2P50	385	-	50	-	150	-	<1.8	-	2	2
BG.420-2P50	420	-	50	-	150	-	<2.0	-	2	2
BG.150-3P50	150	-	50	-	150	-	<1.2	-	3	3
BG.275-3P50	275	-	50	-	150	-	<1.5	-	3	3
BG.320-3P50	320	-	50	-	150	-	<1.6	-	3	3
BG.385-3P50	385	-	50	-	150	-	<1.8	-	3	3
BG.420-3P50	420	-	50	-	150	-	<2.0	-	3	3
BG.150-4P50	150	-	50	-	150	-	<1.2	-	4	4
BG.275-4P50	275	-	50	-	150	-	<1.5	-	4	4
BG.320-4P50	320	-	50	-	150	-	<1.6	-	4	4
BG.385-4P50	385	-	50	-	150	-	<1.8	-	4	4
BG.420-4P50	420	-	50	-	150	-	<2.0	-	4	4
BGG.150-2P50-N50	208 (150)	150	50	50	150	150	<1.2	<0.8	5	2
BGG.150-2P50-N100	208 (150)	150	50	100	150	200	<1.2	<0.8	5	2
BGG.275-2P50-N50	320 (275)	255	50	50	150	150	<1.5	<1.5	5	2
BGG.275-2P50-N100	320 (275)	255	50	100	150	200	<1.5	<1.5	5	2

BG (G) 50	Nominal Voltage Vac L-L (L-N)	Max Continuous Operation Voltage NPE - Vac	Nominal Discharge (In, KA) 8/20		Max Discharge Current (Imax, KA)		Voltage Protection Rated (kV)		Electrical Diagram	Case
			L-N	N-PE	L-N	N-PE	LN@In	NPE (1.2/50)		
BGG.320-2P50-N50	400 (320)	255	50	50	150	150	<1.6	<1.5	5	2
BGG.320-2P50-N100	400 (320)	255	50	100	150	200	<1.6	<1.5	5	2
BGG.385-2P50-N50	480 (385)	255	50	50	150	150	<1.8	<1.5	5	2
BGG.385-2P50-N100	480 (385)	255	50	100	150	200	<1.8	<1.5	5	2
BGG.420-2P50-N50	600 (420)	255	50	50	150	150	<2.0	<1.5	5	2
BGG.420-2P50-N100	600 (420)	255	50	100	150	200	<2.0	<1.5	5	2
BGG.150-3P50-N50	208 (150)	255	50	50	150	150	<1.2	<0.8	6	4
BGG.150-3P50-N100	208 (150)	255	50	100	150	200	<1.2	<0.8	6	4
BGG.275-3P50-N50	320 (275)	255	50	50	150	150	<1.5	<1.5	6	4
BGG.275-3P50-N100	320 (275)	255	50	100	150	200	<1.5	<1.5	6	4
BGG.320-3P50-N50	400 (320)	255	50	50	150	150	<1.6	<1.5	6	4
BGG.320-3P50-N100	400 (320)	255	50	100	150	200	<1.6	<1.5	6	4
BGG.385-3P50-N50	480 (385)	255	50	50	150	150	<1.8	<1.5	6	4
BGG.385-3P50-N100	480 (385)	255	50	100	150	200	<1.8	<1.5	6	4
BGG.420-3P50-N50	600 (420)	255	50	50	150	150	<2.0	<1.5	6	4
BGG.420-3P50-N100	600 (420)	255	50	100	150	200	<2.0	<1.5	6	4

**ELECTRICAL DIAGRAM**
**SCHEMATIC 1**

**SCHEMATIC 2**

**SCHEMATIC 3**

**SCHEMATIC 4**

**SCHEMATIC 5**

**SCHEMATIC 6**

**MECHANICAL DIMENSIONS (mm)**
**CASE 1**

**CASE 2**

**CASE 3**

**CASE 4**
