

The Enerdoor surge arrester BG (G) 25 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**

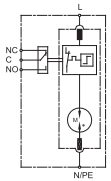

Class category IEC/VDE	I + II / B+C
Operating temperature range	-40°C + 80°C
Operating humidity range	0 ~ 90%
Response time L-N (N-PE)	≤25 ns (<100ns)
Backup fuse (only required if not in the main)	250 Amps gL/gG
Flow current	L-N If ≥10 kARms @ 255 Vac N-PE If 100 Arms @ 255 Vac
Enclosure material	Thermoplastic, 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) 25	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 1P25	150	-	25	-	100	-	<1.2	-	1	1
BG.275 1P25	275	-	25	-	100	-	<1.5	-	1	1
BG.320 1P25	320	-	25	-	100	-	<1.6	-	1	1
BG.385 1P25	385	-	25	-	100	-	<1.8	-	1	1
BG.420 1P25	420	-	25	-	100	-	<2.0	-	1	1
BG.150 2P25	150	-	25	-	100	-	<1.2	-	2	2
BG.275 2P25	275	-	25	-	100	-	<1.5	-	2	2
BG.320 2P25	320	-	25	-	100	-	<1.6	-	2	2
BG.385 2P25	385	-	25	-	100	-	<1.8	-	2	2
BG.420 2P25	420	-	25	-	100	-	<2.0	-	2	2
BG.150 3P25	150	-	25	-	100	-	<1.2	-	3	3
BG.275 3P25	275	-	25	-	100	-	<1.5	-	3	3
BG.320 3P25	320	-	25	-	100	-	<1.6	-	3	3
BG.385 3P25	385	-	25	-	100	-	<1.8	-	3	3
BG.420 3P25	420	-	25	-	100	-	<2.0	-	3	3
BG.150 4P25	150	-	25	-	100	-	<1.2	-	4	4
BG.275 4P25	275	-	25	-	100	-	<1.5	-	4	4
BG.320 4P25	320	-	25	-	100	-	<1.6	-	4	4
BG.385 4P25	385	-	25	-	100	-	<1.8	-	4	4
BG.420 4P25	420	-	25	-	100	-	<2.0	-	4	4
BGG.150 2P25 N50	208 (150)	150	25	50	100	150	<1.2	<0.8	5	2
BGG.150 2P25 N100	208 (150)	150	25	100	100	200	<1.2	<0.8	5	2
BGG.275 2P25 N50	320 (275)	255	25	50	100	150	<1.5	<1.5	5	2
BGG.275 2P25 N100	320 (275)	255	25	100	100	200	<1.5	<1.5	5	2

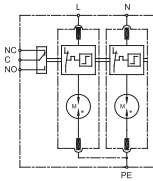
BG (G) 25	Nominal Voltage Vac L-L (L-N)	Max Continuous Operation Voltage NPE - Vac	Nominal Discharge (In, KA) 8/20		Max Discharge Current (Imax, KA)		Voltage Protection Rated (kV)		Electrical Diagram	Case
			L-N	N-PE	L-N	N-PE	LN@In	NPE (1.2/50)		
BGG.320 2P25 N50	400 (320)	255	25	50	100	150	<1.6	<1.5	5	2
BGG.320 2P25 N100	400 (320)	255	25	100	100	200	<1.6	<1.5	5	2
BGG.385 2P25 N50	480 (385)	255	25	50	100	150	<1.8	<1.5	5	2
BGG.385 2P25 N100	480 (385)	255	25	10	100	200	<1.8	<1.5	5	2
BGG.420 2P25 N50	600 (420)	255	25	50	100	150	<2.0	<1.5	5	2
BGG.420 2P25 N100	600 (420)	255	25	100	100	200	<2.0	<1.5	5	2
BGG.150 3P25 N50	208 (150)	255	25	50	100	150	<1.2	<0.8	6	4
BGG.150 3P25 N100	208 (150)	255	25	100	100	200	<1.2	<0.8	6	4
BGG.275 3P25 N50	320 (275)	255	25	50	100	150	<1.5	<1.5	6	4
BGG.275 3P25 N100	320 (275)	255	25	100	100	200	<1.5	<1.5	6	4
BGG.320 3P25 N50	400 (320)	255	25	50	100	150	<1.6	<1.5	6	4
BGG.320 3P25 N100	400 (320)	255	25	100	100	200	<1.6	<1.5	6	4
BGG.385 3P25 N50	480 (385)	255	25	50	100	150	<1.8	<1.5	6	4
BGG.385 3P25 N100	480 (385)	255	25	100	100	200	<1.8	<1.5	6	4
BGG.420 3P25 N50	600 (420)	255	25	50	100	150	<2.0	<1.5	6	4
BGG.420 3P25 N100	600 (420)	255	25	100	100	200	<2.0	<1.5	6	4

### ELECTRICAL DIAGRAM

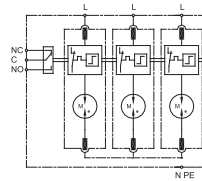
**SCHEMATIC 1**



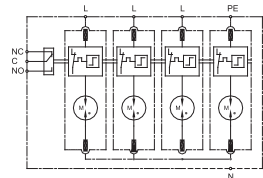
**SCHEMATIC 2**



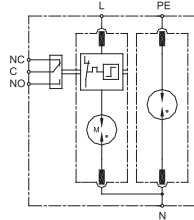
**SCHEMATIC 3**



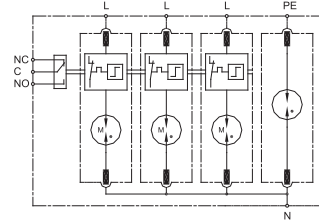
**SCHEMATIC 4**



**SCHEMATIC 5**

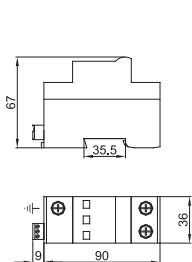


**SCHEMATIC 6**

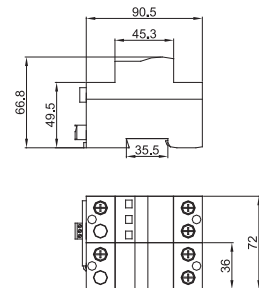


### MECHANICAL DIMENSIONS (mm)

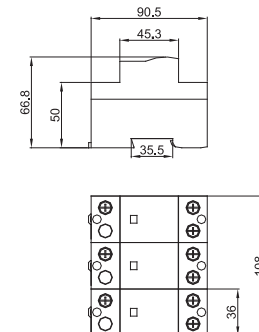
**CASE 1**



**CASE 2**



**CASE 3**



**CASE 4**

