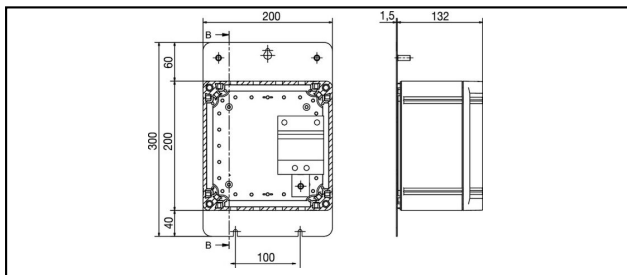
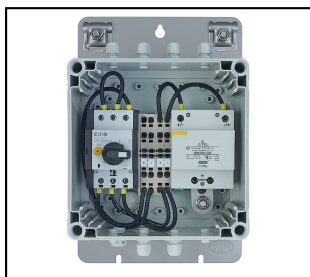


## Generators combiner boxes

### GAK 111 PG Junction box PV



#### Characteristics

Generator boxes with preassembled surge protection and grounding plate:

#### Legend

- a) type 1+2 GAK + DIS 60 VGPVS-1000-2ST-1MPP
- b) type 1+2 GAK + DIS 50 PVS-1000-2ST-1MPP
- c) type 1+2 GAK + DIS 50 VGPVS-1000-2ST-1MPP
- d) type 2 GAK + DIS 50 PV-1000-2ST-1MPP

Article-Nr.	E-Number	Typ/Type	V U <sub>C</sub>	kA I <sub>imp</sub>	kA I <sub>max</sub>	ns t <sub>A</sub>	kV U <sub>P</sub>	mm <sup>2</sup>		
296.049.356	969 111 764	T1 / T2	≤1200VDC	12.5	40	≤25	2.8	6 - 35	a)	1
296.049.956	969 111 734	T1 / T2	≤1200VDC	6.25	40	≤25	2.6	2.5 - 25	b)	1
296.049.556	969 111 754	T1 / T2	≤1200VDC	6.25	40	≤25	2.8	2.5 - 25	c)	1
296.049.756	969 111 744	T2	≤1200VDC	5	40	≤25	2.6	2.5 - 25	d)	1

## Technical Specifications: Junction box PV GAK 111 PG

	296.049.356	296.049.956	296.049.556	296.049.756
SPD type	T1 / T2			T2
Number of poles	2			
max. discharge current (I <sub>max</sub> )	40 kA			
Nominal line voltage U <sub>n</sub> DC	1000 V			
Impulse current [I <sub>imp</sub> ] (10/350)	12.5 kA	6.25 kA		5 kA
Discharge current max. (8/20) μs [I <sub>max</sub> ]	40 kA		60 kA	
Nominal discharge surge current (8/20)	20 kA	15 kA		15 kA
Voltage protection level [U <sub>p</sub> ]	2.8 kV	2.6 kV	2.8 kV	2.6 kV
Protection level max. (at 5kA)	2.1 kV			
Protection level max. (at 12.5kA)	2.3 kV			
Operation voltage max. [U <sub>c</sub> ]	≤1200VDC			
Operating current [I <sub>c</sub> ]	0 kA		0 kA	
Follow current [I <sub>F</sub> ]	0 kA			
follow current extinguishing capability [I <sub>fi</sub> ]	Unendlich kA eff		Unendlich kA eff	
Response time [t <sub>a</sub> ]	≤25 ns			
Short circuit resistance (I <sub>cw</sub> )	25 kA	1 kA	10 kA	1 kA
Fault indication	Mechanisch, Rot	mechanisch, Rot	Mechanisch, Rot	mechanisch, Rot
Temperature range	-40 - 85			
Total discharge current (8/20) (L N-PE)		60 kA		60 kA
Degree of protection	IP20			
Signaling on the device	Optic			
Signaling contact	Yes			
Connection cross section solid / stranded max.	1.5 mm <sup>2</sup>			
Switching capacity signaling contact	250 V / 0,5 A (AC) - 30 V / 2 A (DC)	250 V / 0,5 A (AC) / - 30 V / 2 A (DC)	250 V / 0,5 A (AC) - 30 V / 2 A (DC)	250 V / 0,5 A (AC) / - 30 V / 2 A (DC)
Energetically coordinated protective effect to the terminal	Yes			
System configuration DC	Yes			
Construction size	4 modular spacing	3 modular spacing		
Nominal discharge current [I <sub>n</sub> ]	20/Pol	15/Pol		
Integrated backup fuse	No			
Nominal cross section conductor	6 - 35 mm <sup>2</sup>	2.5 - 25 mm <sup>2</sup>	2.5 - 25	2.5 - 25 mm <sup>2</sup>
Exhausting	No			
Mounting method	DIN rail (top hat rail) 35 mm			
Degree of protection (IP)	IP20			
<b>Casing</b>				
degree of protection	IP65			
number of modules	8			
contract rail	DIN-Schiene			
String / MPP	2ST-1MPP			
inputs PG / MC4	PG			
outputs PG / MC4	PG			
Ground base plate	Yes			
<b>Switch</b>				
Switching capacity voltage max. U <sub>oc</sub> Max.	1000 V			
Switching current max. I <sub>sc</sub> Max.	30 A			
Cross-sectional area	6 mm <sup>2</sup>			
<b>Standards</b>				
Test standards USA	UL 1449 ed.3			
Test standards Europe	FprEN 50539-11	EN 50539-11		
Test standards France	UTE C61-740-51			
Homologation	VDE, ÖVE und UL		VDE, ÖVE und UL	
<b>Commercial specification</b>				
Customs number	85372000			
country of origin	CH			
<b>Logistic specification</b>				
VPE Weight	3.126 kg			