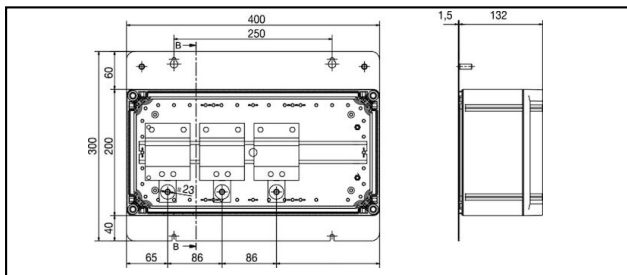


Generators combiner boxes

GAK 310-MC4 Junction box PV



Characteristics

Generator boxes with preassembled surge protection and grounding plate:

Legend

- a) type 1+2 GAK + 60 VGPVS-1000-3ST-3MPP
- b) type 1+2 GAK + 50 PVS-1000-3ST-3MPP
- c) type 1+2 GAK + 50 VGPVS-1000-3ST-3MPP
- d) type 2 GAK + 50 PV-1000-3ST-3MPP

Article-Nr.	E-Number	Typ/Type	V U _C	kA I _{imp}	kA I _{max}	ns t _A	kV U _P	mm ²		
296.050.253	969 112 054	T1 / T2	≤1200VDC	12.5	40	≤25	2.8	6 - 35	a)	1
296.050.853	969 112 164	T1 / T2	≤1200VDC	6.25	40	≤25	2.6	2.5 - 25	b)	1
296.050.453	969 111 824	T1 / T2	≤1200VDC	6.25	40	≤25	2.8	2.5 - 25	c)	1
296.050.653	969 111 934	T2	≤1200VDC	5	40	≤25	2.6	2.5 - 25	d)	1

Technical Specifications: Junction box PV GAK 310-MC4

	296.050.253	296.050.853	296.050.453	296.050.653
SPD type	T1 / T2			T2
Number of poles	2			
max. discharge current (I _{max})	40 kA			
Nominal line voltage U _n DC	1000 V			
Impulse current [I _{imp}] (10/350)	12.5 kA	6.25 kA		5 kA
Discharge current max. (8/20) μs [I _{max}]	40 kA		60 kA	
Nominal discharge surge current (8/20)	20 kA	15 kA		15 kA
Voltage protection level [U _p]	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 _c]	≤1200VDC			
Operating current [I _c]	0 kA		0 kA	
Follow current [I _F]	0 kA			
follow current extinguishing capability [I _{fi}]	Unendlich kA eff		Unendlich kA eff	
Response time [t _a]	≤25 ns			
Short circuit resistance (I _{cw})	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 ²			
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 _n]	20/Pol	15/Pol		
Nominal cross section conductor	6 - 35 mm ²	2.5 - 25 mm ²	2.5 - 25	2.5 - 25 mm ²
Integrated backup fuse	No			
Exhausting	No			
Mounting method	DIN rail (top hat rail) 35 mm			
Degree of protection (IP)	IP20			
Casing				
degree of protection	IP65			
number of modules	20			
contract rail	DIN-Schiene			
String / MPP	3ST-3MPP			
inputs PG / MC4	MC 4			
outputs PG / MC4	MC 4			
Ground base plate	Yes			
Standards				
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	
Commercial specification				
Customs number	85372000			
country of origin	CH			
Logistic specification				
VPE Weight	5.709 kg		4.49 kg	