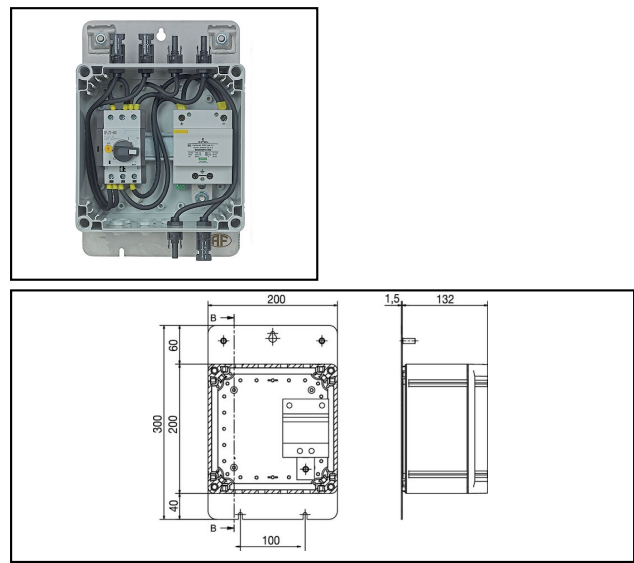


Generators combiner boxes

GAK 111-MC4 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		V U_C	kA I_{imp}	kA I_{max}	ns t_A	kV U_P	mm² 		
296.050.351	969 112 094	T1 / T2	≤1200VDC	12.5	40	≤25	2.8	6 - 35	a)	1
296.050.951	969 112 204	T1 / T2	≤1200VDC	6.25	40	≤25	2.6	2.5 - 25	b)	1
296.050.551	969 111 864	T1 / T2	≤1200VDC	6.25	40	≤25	2.8	2.5 - 25	c)	1
296.050.751	969 111 974	T2	≤1200VDC	5	40	≤25	2.6	2.5 - 25	d)	1

Technical Specifications: Junction box PV GAK 111-MC4

	296.050.351	296.050.951	296.050.551	296.050.751
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 mm²			
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 mm²	2.5 - 25 mm²	2.5 - 25	2.5 - 25 mm²
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	8			
contract rail	DIN-Schiene			
String / MPP	2ST-1MPP			
inputs PG / MC4	MC 4			
outputs PG / MC4	MC 4			
Ground base plate	Yes			
Switch				
Switching capacity voltage max. U _{oc} Max.	1000 V			
Switching current max. I _{sc} Max.	30 A			
Cross-sectional area	6 mm²			
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	3.1 kg			2.85 kg

