

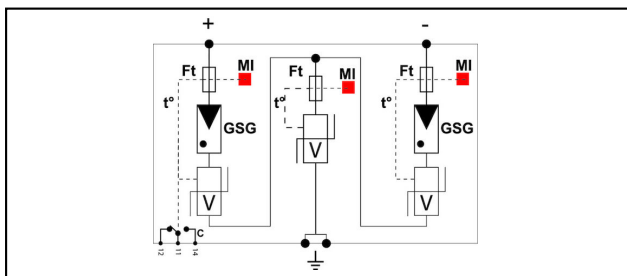
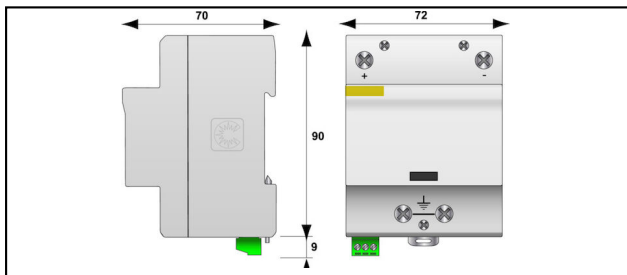
Photovoltaics

DS 60 VGPVS Photovoltaics surge protection T1+T2



Characteristics

- Surge protector photovoltaic type 1+2
- 10 years warranty
- $I_{imp} = 12.5\text{kA/pole}$ ($10/350\mu\text{s}$)
- internal disconnection, status indicator
- follow and operating current: none
- remote signaling



Article-Nr.	E-Number	Typ/Type		kA I_{imp}	kA I_{max}	V U_C	ns t_A	kV U_P	
296.045.923	808 486 100	T1 / T2	Yes	12.5	40	$\leq 500\text{VDC}$	0	1.7	1
296.045.973	808 486 300	T1 / T2	Yes	12.5	40	$\leq 1200\text{VDC}$	0	2.8	1

Technical Specifications: Photovoltaics surge protection T1+T2 DS 60 VGPVS

	296.045.923	296.045.973
Operation voltage max. [Uc]	≤500VDC	≤1200VDC
SPD type	T1 / T2	
Number of poles	2	
max. discharge current (Imax)	40 kA	
Nominal line voltage Un DC	600 V	1000 V
Impulse current [Iimp]_(10/350)	12.5 kA	
Nominal cross section conductor	6 - 35 mm ²	
Discharge current max. (8/20) μs [Imax]	40 kA	
Nominal discharge surge current (8/20)	20 kA	
Voltage protection level [Up]	1.7 kV	2.8 kV
Protection level max. (at 5kA)	1.3 kV	2.1 kV
Protection level max. (at 12.5kA)	1.5 kV	2.3 kV
Operating current [Ic]	0 kA	
Follow current [IF]	0 kA	
follow current extinguishing capability [Ifi]	Unendlich kA eff	
Response time [ta]	0 ns	
Short circuit resistance (Icw)	25 kA	
Fault indication	Mechanisch, Rot	
Temperature range	-40 - 85 °C	
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)	
Energetically coordinated protective effect to the terminal	Yes	
System configuration DC	Yes	
Construction size	4 modular spacing	
Nominal discharge current [In]	20/Pol	
Integrated backup fuse	No	
Exhausting	No	
Number of poles	2	
Mounting method	DIN rail (top hat rail) 35 mm	
Degree of protection (IP)	IP20	
Standards		
Homologation	VDE, ÖVE und UL	
Test standards USA	UL 1449 ed.3	
Test standards Europe	FprEN 50539-11	
Test standards France	UTE C61-740-51	
Commercial specification		
Customs number	85363000	
country of origin	ZA*	
Logistic specification		
VPE Weight	0.432 kg	0.568 kg