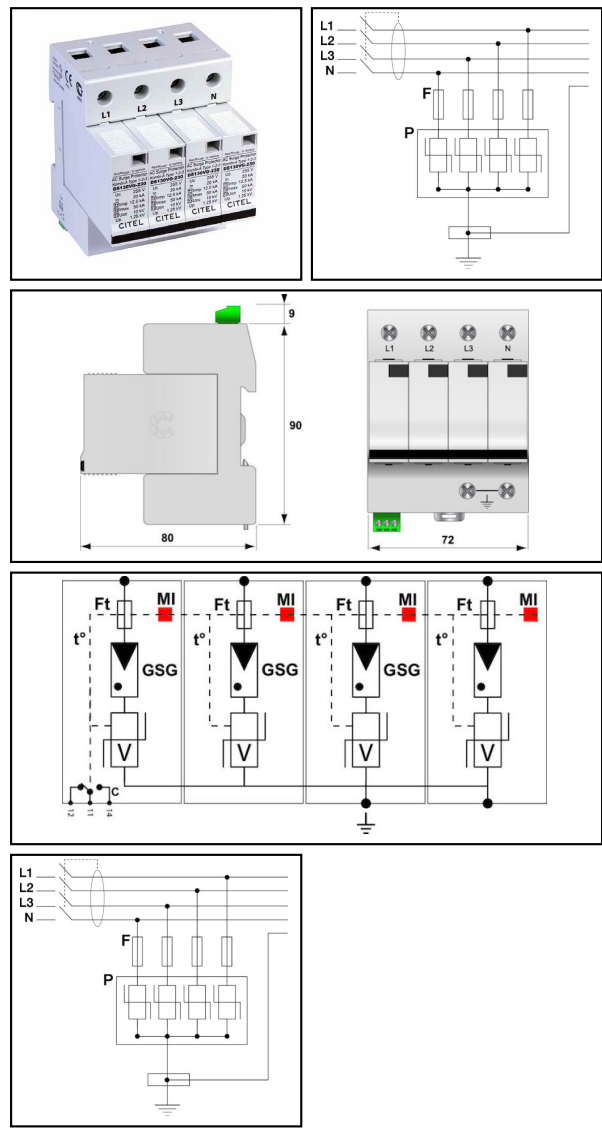


Surge Protection (Type 1)

DS 130 VGS Overvoltage protection T1+T2+T3



- Characteristics
- surge protector type 1+2+3
 - 10 years warranty
 - $I_{imp} = 12.5\text{kA/pole}$ ($10/350\mu\text{s}$)
 - optimized to TOV
 - internal disconnection, status indicator
 - follow and operating current: none
 - remote signaling

Article-Nr.	E-Number	Typ/Type		kA I_{imp}	kA I_{max}	ns t_A	kV U_P	mm ² 	
296.571.571	808 451 030	T1 / T2 / T3	1	12.5	50	≤20	1	2.5 - 25	1
296.571.582	808 452 020	T1 / T2 / T3	2	12.5	50	≤20	1	2.5 - 25	1
296.571.583	808 453 020	T1 / T2 / T3	3	12.5	50	≤20	1	2.5 - 25	1
296.571.574	808 454 020	T1 / T2 / T3	4	12.5	50	≤20	1	2.5 - 25	1

Technical Specifications: **Overvoltage protection T1+T2+T3 DS 130 VGS**

	296.571.571	296.571.582	296.571.583	296.571.574
SPD type	T1 / T2 / T3			
Number of poles	1	2	3	4
max. discharge current (I _{max})	50 kA			
Nominal line voltage U _n AC	230 V			
Continuous voltage AC max.	275 V			
Nominal frequency [f _n]	0 - 100 Hz			
Impulse current [I _{imp}]_(10/350)	12.5 kA			
Discharge current max. (8/20) μs [I _{max}]	50 kA			
Nominal discharge surge current (8/20)	20 kA			
Combined shock [U _{oc}]	20 kV			
Voltage protection level [U _p]	1 kV			
Protection level max. (at 5kA)	0.65 kV			
Protection level max. (at 12.5kA)	0.8 kV			
Protection level max. (at I _{max})	1 kV			
Operating current [I _c]	0 kA			
Follow current [I _F]	0 kA			
follow current extinguishing capability [I _{fi}]	Unendlich kA eff			
Response time [t _a]	≤20 ns			
TOV-voltage L-N [UT]	335 V / 5 sec.			
TOV-voltage L-PE [UT]	1200 V / 200 ms / 300 A			
Short circuit resistance (I _{cw})	25 kA			
Fault indication	Mechanisch, Rot			
Temperature range	-40 - 85 °C			
Degree of protection	IP 20			
Fuse max. (gG)	160 A			
Mounting on	Hutschiene 35 mm			
Signaling on the device	Optic			
Signaling contact	Yes		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)			
System configuration		TN		TN-S
Energetically coordinated protective effect to the terminal	Yes			
Integrated backup fuse	No			
Voltage protection level max. (by I _n) [U _p]	1.0 kV	<1.0 kV	<1.0 kV	<1.0 kV
Construction size	1 modular spacing	2 modular spacing	3 modular spacing	4 modular spacing
Nominal cross section conductor	2.5 - 25 mm²			
Exhausting	No			
Mounting method	DIN rail (top hat rail) 35 mm			
Network configuration	Yes			
Voltage protection level L-N [U _p]	1 kV			
Remote signalling	Yes			
Total discharge current (8/20) (L N-PE)	50 kA			
Degree of protection (IP)	IP20			
Standards				
Homologation	VDE, ÖVE und UL			
Test standards International	IEC 61643-11			
Test standards USA	UL 1449 ed.3			
Test standards Europe	EN 61643-11			
Commercial specification				
Customs number	85363000			
country of origin	CE	undefined		RC
Logistic specification				
VPE Weight	0.18 kg	0.328 kg	0.46 kg	0.6 kg