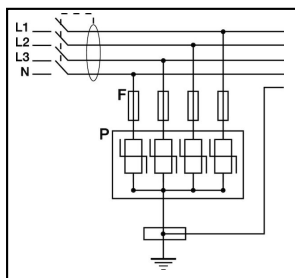
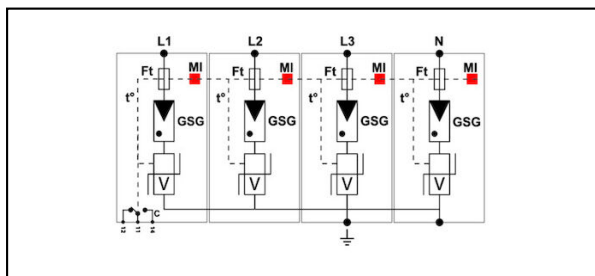
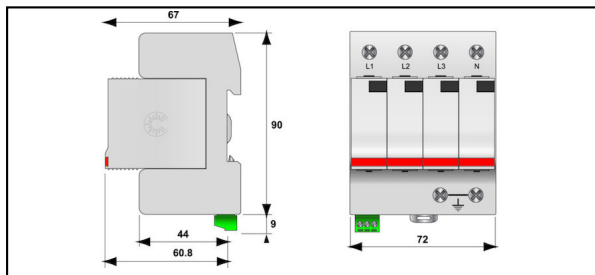
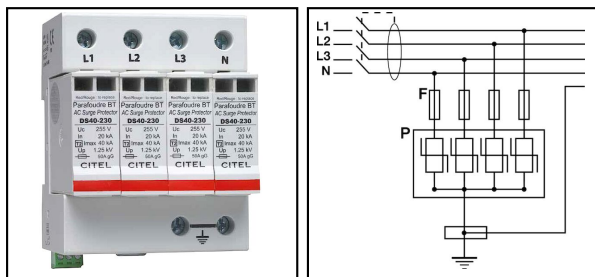


## Surge protection (Type 2)

### ■ DS 40 VGS Overvoltage protection T2+T3



#### Characteristics

- surge protector type 2+3
- 10 years warranty
- $I_n = 20\text{kA}$ ;  $I_{max} = 40\text{kA}$
- optimized to TOV
- internal disconnection, status indicator
- pluggable module
- follow and operating current: none
- remote signaling

Article-Nr.	E-Number	Typ/Type		kA $I_{max}$	ns $t_A$	kV $U_P$		Hz $F_N$	kA $i_n$	
296.044.051	808 471 000	T2 / T3	1	40	$\leq 20$	1.1	2.5 - 25	0 - 100	20	Yes
296.044.052	808 476 000	T2 / T3	2	40	$\leq 20$	1.1	2.5 - 25	0 - 100	20	Yes
296.044.053	808 477 000	T2 / T3	3	40	$\leq 20$	1.1	2.5 - 25	0 - 100	20	Yes
296.044.054	808 478 000	T2 / T3	4	40	$\leq 20$	1.1	2.5 - 25	0 - 100	20	Yes

Technical Specifications: **Overvoltage protection T2+T3 DS 40 VGS**

	296.044.051	296.044.052	296.044.053	296.044.054
SPD type	T2 / T3			
Number of poles	1	2	3	4
max. discharge current (I <sub>max</sub> )	40 kA			
Nominal line voltage Un AC	230 V			
Continuous voltage AC max.	275 V			
Nominal frequency [fn]	0 - 100 Hz			
Nominal discharge surge current (8/20)	20 kA			
Combined shock [Uoc]	10 kV			
Voltage protection level [Up]	1.1 kV			
Protection level max. (at 5kA)	0.8 kV			
Protection level max. (at 12.5kA)	0.95 kV			
Protection level max. (at I <sub>max</sub> )	1.5 kV			
Operating current [Ic]	0 kA			
Follow current [IF]	0 kA			
follow current extinguishing capability [Ifi]	Unendlich kA eff			
Response time [ta]	≤20 ns			
TOV-voltage L-N [UT]	450 V / 5 sec.			
Short circuit resistance (I <sub>cw</sub> )	25 kA			
Fault indication	Mechanisch, Rot			
Temperature range	-40 - 85 °C			
Degree of protection	IP20			
Fuse max. (gG)	125 A			
Mounting on	Hutschiene 35 mm			
Material housing	Thermoplast PEI UL-94-5VA			
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)			
System configuration	TN		TN-S	
Category type 2	Yes			
Nominal cross section conductor	2.5 - 25 mm <sup>2</sup>			
Voltage protection level L-N [Up]	1.1 kV			
Nominal discharge current [In]	20/Pol			
Short-circuit-proof	Yes			
Construction size	1 modular spacing	2 modular spacing	3 modular spacing	4 modular spacing
Integrated backup fuse	No			
With remote signalling contact	Yes			
Mounting method	DIN rail (top hat rail) 35 mm			
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		
Logistic specification				
VPE Weight	0.12 kg	0.214 kg	0.3 kg	0.375 kg