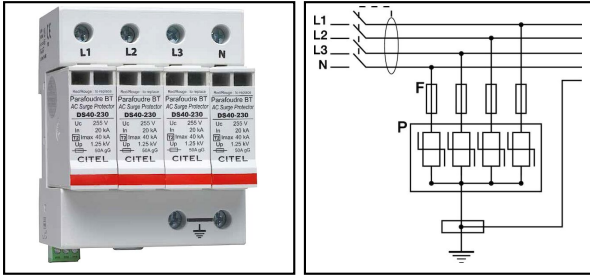


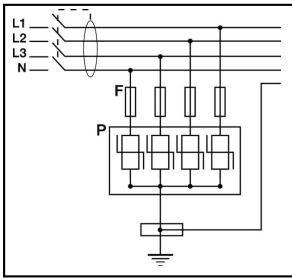
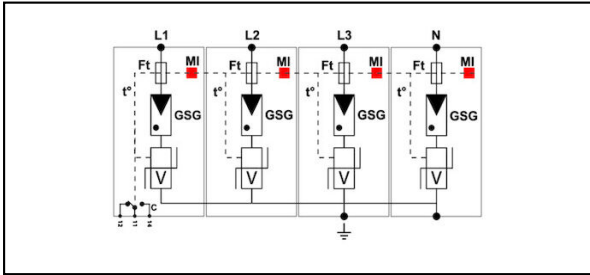
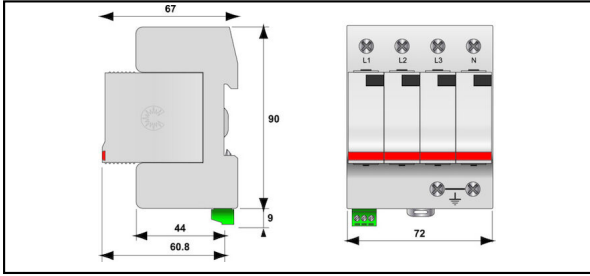
## Surge protection (Type 2)




### DS 40 VGS Surge Protector



#### 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 $U_P$	 mm <sup>2</sup>	Hz $F_N$	kA $i_n$	
296.044.052	808 476 000	T2 / T3	2	40	≤20	1.1	2.5 - 25	0 - 100	20	Yes

## Technical Specifications: Surge Protector DS 40 VGS

Article No.	296.044.052
Construction size	2 modular spacing
SPD type	T2 / T3
Number of poles	2
max. discharge current (I <sub>max</sub> )	40 kA
Nominal line voltage U <sub>n</sub> 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 [U <sub>oc</sub> ]	10 kV
Voltage protection level [U <sub>p</sub> ]	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 [I <sub>c</sub> ]	0 kA
Follow current [IF]	0 kA
follow current extinguishing capability [Ifi]	Unendlich
Response time [ta]	≤20
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
Category type 2	Yes
Nominal cross section conductor	2.5 - 25 mm <sup>2</sup>
Voltage protection level L-N [U <sub>p</sub> ]	1.1 kV
Nominal discharge current [I <sub>n</sub> ]	20/Pol
Short-circuit-proof	Yes
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	ZA*
Logistic specification	
VPE Weight	0.214 kg