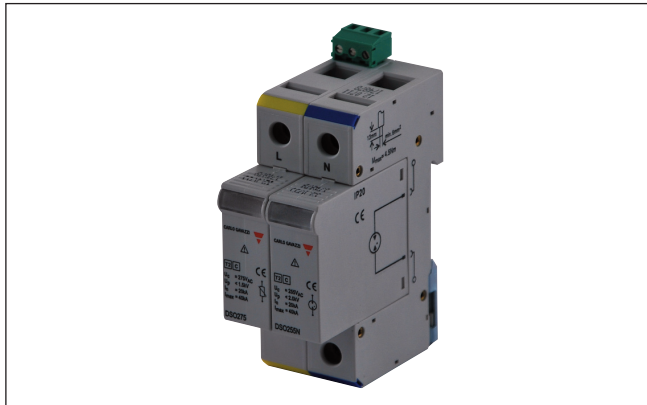


Monitoring Relays Surge Arresters for AC systems Type DSB52 A

CARLO GAVAZZI



- Category IEC / EN / VDE: Class II/Type 2/C
- Connection to TN-S and TT networks
- MOV or MOV & GDT protection
- Modular design housing
- Replaceable cartridges
- DIN rail Mounting
- IEC 61643-1 compliant

Ordering Key **DSB5 2 X A 275 N**

Type _____
 Poles _____
 Contact _____
 Single Phase _____
 MCOV _____
 GDT _____

Product Description

DSB52 series of overvoltage surge protection devices is suitable for the protection of AC mains connected devices from the effects of indirect lightning discharges and induced voltages and is intended to provide protection in zones 1 - 2 per IEC 62305. The modules consist in either an high performance Varistor

(MOV) block with thermal disconnection device or an encapsulated air gap device (GDT) which is used as a galvanic separation between N and PE conductors. Plug in modules facilitate replacement of failed modules on site without the need of replacing and rewiring the whole block.

Type Selection

Contact	None 1 (relay)	X C
Max. Continuous Oper. Voltage		
MCOV	275Vac/350Vdc 385Vac/500Vdc	275 385
GDT	No (2+0) Yes (1+1)	- (nil) N

Cartridges

Ordering Codes	
MOV	
for MCOV 275 arresters	DS0275
for MCOV 385 arresters	DS0385
GDT	
GDT cartridge (only for DSB52xxxxN types)	DS0255N

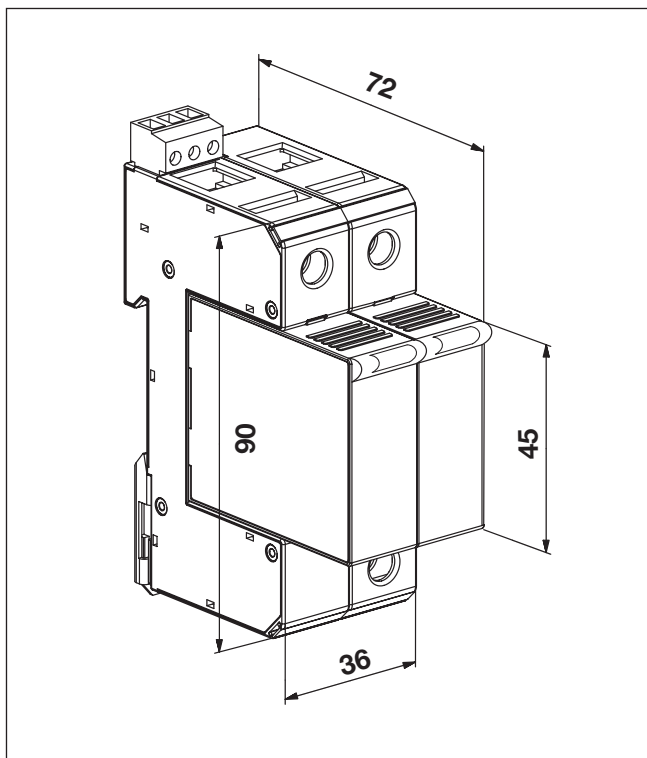
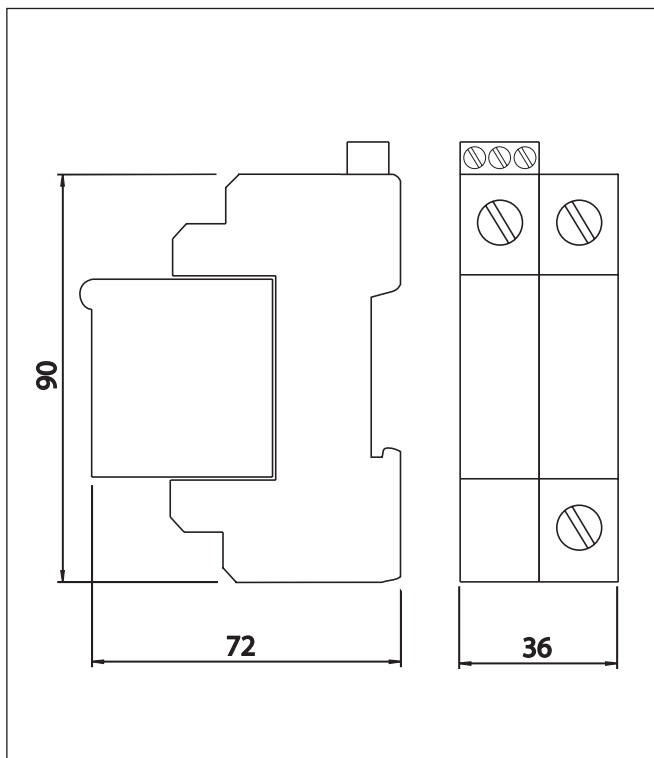
Electrical characteristics without GDT (2+0) DSB52xAxxx versions

Max. Continuous Oper. Voltage MCOV	U_c 275Vac / 350Vdc 385Vac / 500Vdc	Protection level	U_p 275 <1.5kV 385 <1.9kV
Nominal discharge current (8/20)	I_n 20kA per pole (40kA)	Follow current I_f	NO
Max discharge current (8/20)	I_{max} 40kA per pole (80kA)	Response time t_A	<25ms
		Thermal protection	YES
		Back-up fuse (if mains >125A)	125A gL
		Short-circuit withstand current	25kA/50Hz

Electrical characteristics with GDT (1+1) only DSB52xAxxxN versions

Max. Continuous Oper. Voltage MCOV	U_c 275Vac / 350Vdc 385Vac / 500Vdc	Protection level	U_p 275 L-N <1.5kV 385 L-N <1.9kV N-PE <2.0kV
Nom. discharge current (8/20) L-N N-PE	I_n 20kA 20kA	Follow current N-PE	I_f >100A _{RMS}
Max discharge current (8/20) L-N N-PE	I_{max} 40kA 40kA	Response time L-N N-PE	t_A 25ms 100ms
		Thermal protection	YES
		Back-up fuse L-N	125A gL
		Short-circuit withstand current L-N	25kA/50Hz

Dimensions and mechanical drawings



Connection diagrams

