

Technical data sheet

Medium and fine protection FLD for two-core systems 12 V

Item number: 5098603



Surge protection for use in measurement and control technology

- Medium and fine protection
- Standard design for single core systems
- Two-stage protection circuit
- With installation-friendly, screwless connection terminals
- In space-saving 17.5 mm grid
- With inductive decoupling in the longitudinal branch

Application: Universal use on any 35 mm DIN profile rail in every commercially available distributor housing.



Master data		
Item number	5098603	
Type	FLD 12	
Description 1	Lightning barrier	
Description 2	with decoupling inductivity	
Manufacturer	OBO	
Dimension	12V AC	
Smallest sales unit	1	
Unit of quantity	Piece	
Weight	5.2 kg	
Weight unit	kg/100 pc.	
CO2 Footprint (GWP) Cradle-to- Gate	0,2713 kg CO2e / 1 Piece	

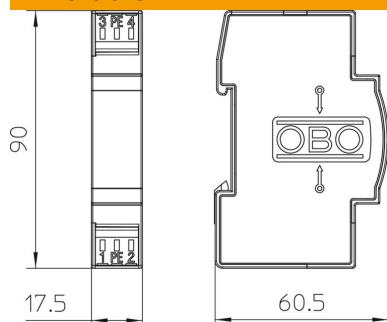
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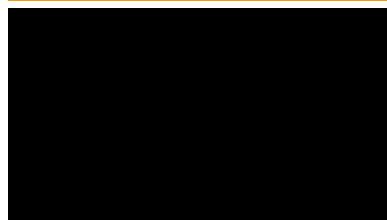
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Dimensions



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Connection cross-section, flexible, max.	2.5 mm ²
Connection cross-section, flexible, min.	0.14 mm ²
Connection cross-section, multi-wire, max.	2.5 mm ²
Connection cross-section, multi-wire, min.	0.14 mm ²
Connection cross-section, rigid, max.	2.5 mm ²
Connection cross-section, rigid, min.	0.14 mm ²
Number of poles	2
Insertion loss	3 dB @ 180 kHz dB
Earthing via:	Terminal
Explosion-tested version	no
Telecommunications contact	no
Total discharge current (10/350)	D1: 3 kA
Total discharge current (8/20)	10 kA
Cut-off frequency	0.18 MHz
Maximum continuous voltage AC	9 V
Maximum continuous voltage DC	13 V
Lightning impulse current	1.5 kA
Insulation resistance	>1 MΩ
Capacity (wire-wire)	<10 nF
Capacity (wire-earth)	<1 nF
Kategorie	Type 1+2+3 / D1+C2+C1
Lightning protection zone LPZ	0→3
Mounting type	DIN rail 35 mm
Nominal discharge current (8/20 μs)	5 kA
Nominal load current AC	0.7 A
Nominal load current DC	1 A
Testing standard	IEC 61643-21
Shielding connection available	no
Protection rating	IP20
Protection level wire-wire	<30 V
Protection level wire-earth	<600 V
Series inductivity per wire	120 μH ± 20 %

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	SPD to IEC 61643-21	Class I+II+III / D1+C2+C1
	Plug-in system	Terminal
	Impulse durability wire-wire	C1: 1 kV / 0,5 kA (8/20µs)
	Impulse durability wire-earth	C2: 10 kV / 5 kA (8/20µs)
	Division unit TE (17.5 mm)	1
	Permitted temperature range, max.	80 °C
	Permitted temperature range, min.	-40 °C
	Approvals	UL