

Technical data sheet

Medium and fine protection FRD for two-core systems 110 V

Item number: 5098557



Surge protection for use in measurement and control technology

- Medium and fine protection
- Standard design for double core systems
- Two-stage protection circuit
- With installation-friendly, screwless connection terminals
- In space-saving 17.5 mm grid
- With ohmic 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	5098557	
Type	FRD 110	
Description 1	Lightning barrier	
Description 2	with decoupling resistance	
Manufacturer	OBO	
Dimension	110V AC	
Smallest sales unit	1	
Unit of quantity	Piece	
Weight	5.1 kg	
Weight unit	kg/100 pc.	
CO2 Footprint (GWP) Cradle-to-Gate	0,1805 kg CO2e / 1 Piece	

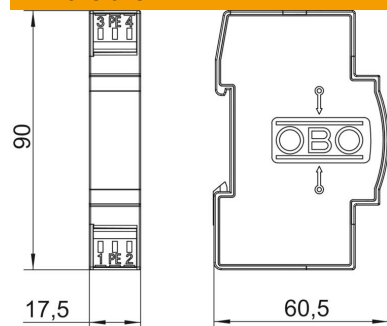
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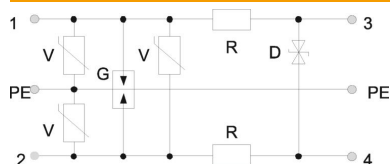
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Dimensions



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Arrestor monitoring	no
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 @ 3,6 MHz 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	3.6 MHz
Maximum continuous voltage AC	86 V
Maximum continuous voltage DC	122 V
Lightning impulse current	1.5 kA
Insulation resistance	>100 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	0.14 A
Nominal load current DC	0.2 A
Nominal voltage	110 V
Testing standard	IEC 61643-21
ROHS-conformant	yes
Shielding connection available	no
Protection rating	IP20

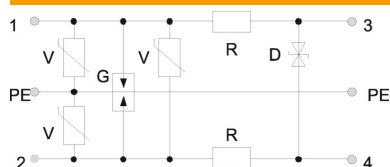
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Protection level wire-wire	<300 V
Protection level wire-earth	<600 V
Series resistance per wire	15 $\Omega \pm 10 \%$
SPD to IEC 61643-21	Class I+II+III / D1+C2+C1
Plug-in system	Terminal
Impulse durability wire-wire	C2: 5 kV / 2,5 kA (8/20 μ s)
Impulse durability wire-earth	C2: 10 kV / 5 kA
Division unit TE (17.5 mm)	1
Permitted temperature range, max.	80 °C
Permitted temperature range, min.	-40 °C
Approvals	UL