

Technical data sheet

Series protection device, 4-pole, 24 V version

Item number: 5098432



Lightning barrier for intrinsically safe measuring circuits

- Protection device for multi-wire systems
- Direct shield earthing and screwless connection terminals
- Space-saving width of just 8.7 mm
- High frequency range of 0–100 MHz
- ATEX approval: II 2(1) G Ex ia [ia Ga] IIC T4 (BVS 11 ATEX E 131 X)
- UL-listed (4UM2)

Application: Universal use on 35 mm DIN profile rail in any standard distribution housing.



Master data		
Item number	5098432	
Type	MDP-4 D-24-EX	
Description 1	Lightning barrier	
Description 2	for Ex protection applications	
Manufacturer	OBO	
Dimension	24V	
Colour	Blue	
Smallest sales unit	1	
Unit of quantity	Piece	
Weight	5.8 kg	
Weight unit	kg/100 pc.	

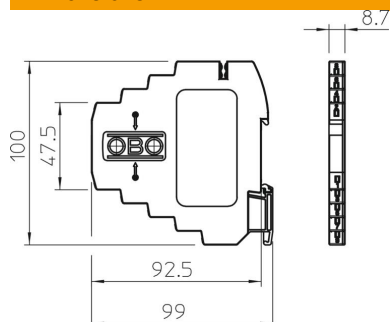
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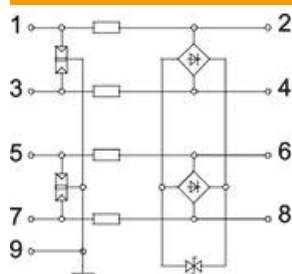
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Dimensions



Technical data



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.	1.5 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	4
Insertion loss	≤3 dB
Earthing via:	DIN rail
EX approval	II 2(1)G Ex ia [ia Ga] IIC T4 Gb
Telecommunications contact	no
Total discharge current (10/350)	D1: 2 kA
Total discharge current (8/20)	10 kA
Cut-off frequency	100 MHz
Maximum continuous voltage AC	20 V
Maximum continuous voltage DC	28 V
Insulation resistance	>100 MΩ
Capacity (wire-wire)	< 40 pF
Kategorie	Type 1+2+3 / D1+C2+C1
Lightning protection zone LPZ	0→3
Mounting type	DIN rail
Nominal load current AC	0.4 A
Nominal load current DC	0.58 A
Nominal voltage	24 V
Testing standard	IEC 61643-21
Shielding connection available	yes
Screening	Direct
Protection rating	IP20
Protection level wire-wire	< 55 V
Protection level wire-earth	<800 V
Series resistance per wire	2.35 Ω ± 5 %
Signalling on device	None

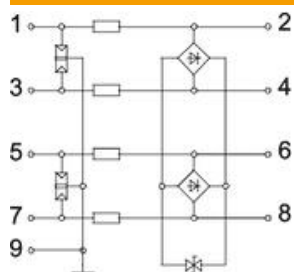
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SPD to IEC 61643-21

Plug-in system

Impulse durability wire-wire

Impulse durability wire-earth

Permitted temperature range,
max.

Permitted temperature range,
min.

Approvals

Class I+II+III / D1+C2+C1

Terminal

C1: 0,5 kV / 0,25 kA (8/20 μ s)

C2: 5 kV / 2,5 kA (8/20 μ s)

80 °C

-40 °C

UL