

# Technical data sheet

## Lightning current arrester MCF-C



Item number: 5096917



Lightning current arrester, type 1+2

- Protection level < 2.5 kV
- Lightning protection equipotential bonding according to VDE 0185-305 (IEC 62305)
- Lightning current discharge capacity 25 kA (10/350)
- Follow current quenching I<sub>fi</sub> 50 kA
- Max. pre-fuse 315 A gL/gG
- Complies with the requirements for the use in the pre-meter area according to VDE-AR-N 4100
- The FS version has a potential-free changeover contact for remote signalling

Application: Without exception for 400/690 V network systems and for the lightning protection classes I to IV only.

\* Complete = Plug-in arrester and base



### Master data

Item number	5096917
Type	MCF-C+FS-440
Description 1	Lightning current arrester
Manufacturer	OBO
Dimension	440V
Colour	Orange
Smallest sales unit	1
Unit of quantity	Piece
Weight	60.57 kg
Weight unit	kg/100 pc.
CO2 Footprint (GWP) Cradle-to-Gate	0,6563 kg CO2e / 1 Piece

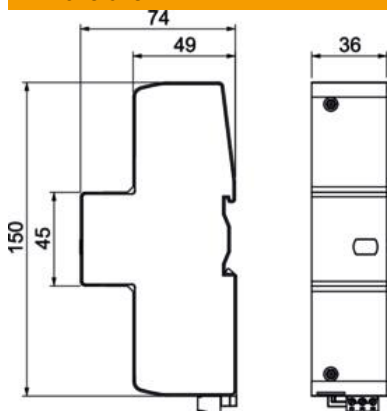
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### Dimensions



Length	150 mm
Width	36 mm
Height	74.5 mm

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Connection cross-section, FM terminals, max.	16 AWG
Connection cross-section, FM terminals, max.	1.5 mm <sup>2</sup>
Connection cross-section, FM terminals, min.	21 AWG
Connection cross-section, FM terminals, min.	0.5 mm <sup>2</sup>
Response time [L-N]	<100 ns
Blow-out	no
Pole version	1
Structural width in division units (division unit, 17.5 mm)	2
Operating temperature, max.	80 °C
Operating temperature, min.	-40 °C
Lightning surge current (10/350 µs)	25 kA
Torque for FM terminal	1.7 Lbs
Torque for FM terminal	0.2 Nm
Installation location	Interior
Remote signalling	yes
FM contacts	Changeover
Follow current quenching capacity (eff) [N-PE]	50 kA
Function/defect display	Visual
Suitable for outdoor use	no
Maximum continuous voltage (L-N)	440 V
Maximum continuous voltage AC	440 V
Integrated back-up fuse	no
Short-circuit resistance for max. mains-side overcurrent protection	50 kA eff
Conductor cross-section, flexible (fine-wire), max.	25 mm <sup>2</sup>
Conductor cross-section, flexible (fine-wire), max.	3 AWG

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Conductor cross-section, flexible (fine-wire), min.	10 AWG
Conductor cross-section, flexible (fine-wire), min.	6 mm <sup>2</sup>
Conductor cross-section, rigid (single-wire/multiwire), max.	2 AWG
Conductor cross-section, rigid (single-wire/multiwire), max.	35 mm <sup>2</sup>
Conductor cross-section, rigid (single-wire/multiwire), min.	10 AWG
Conductor cross-section, rigid (single-wire/multiwire), min.	6 mm <sup>2</sup>
Humidity, min.	5 %
Humidity, max.	95 %
Max. mains-side overcurrent protection	315 A gL/gG
Maximum back-up fuse	315 A
Installation type	DIN rail 35 mm
Nominal discharge current (8/20 µs)	35 kA
Nominal discharge current (8/20 µs) [L-N]	35 kA
Nominal voltage AC (50/60 Hz)	400 V
DC network form	no
IT network form	yes
Other network form	no
TN network form	yes
TN-C network form	yes
TN-C-S network form	yes
TN-S network form	yes
TT network form	yes
Ports	One-Port SPD
Test class, type 1	yes
Switching power AC	230 V; 0,5 A
Switching power DC	230 V; 0,1 A / 75 V; 0,5 A
Protection rating	IP20
Protection level	≤2,5 kV
Protection level [L-N]	≤2,5
Signalling on device	Visual
SPD to EN 61643-11	Type 1+2
SPD to IEC 61643-1	Class I+II
Permitted temperature range, max.	80 °C
Permitted temperature range, min.	-40 °C
TOV voltage [L-N] – fail safe mode – 120 min.	760 V
TOV voltage [L-N] – withstand mode – 5 s	580 V
Number of conductors (without earth)	1