Technical data sheet

Lightning current arrester MCF-C

Item number: 5096917



Lightning current arrester, type 1+2

- Protecion 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 Ifi 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

5 Years | Type 1 | LPZ 0→2 | 230/400 V System

Master data

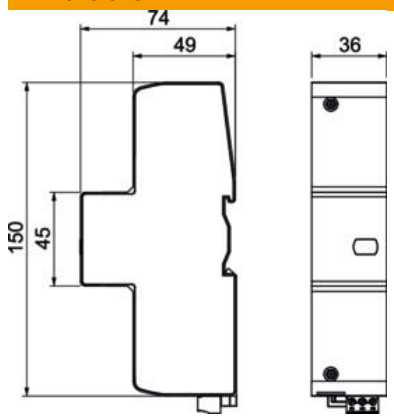
Item number	5096917
Type	MCF-C+FS-440
Description 1	Lightning current arrester
Manufacturer	OBO
Dimension	440V
Colour	Orange
Smallest sales unit	1
Unit of quantity	Piece
Weight	60.57 kg
Weight unit	kg/100 pc.
CO2 Footprint (GWP) Cradle-to-Gate	0,6563 kg CO2e / 1 Piece

Technical data sheet

Lightning current arrester MCF-C

Item number: 5096917

Dimensions



Length	150 mm
Width	36 mm
Height	74.5 mm

Technical data

Connection cross-section, FM terminals, max.	16 AWG
Connection cross-section, FM terminals, max.	1.5 mm²
Connection cross-section, FM terminals, min.	21 AWG
Connection cross-section, FM terminals, min.	0.5 mm²
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 leff	50 kA
Function/defect display	Visual
Suitable for outdoor use	no
Maximum continuous voltage (L-N)	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 mm²
Conductor cross-section, flexible (fine-wire), max.	3 AWG
Conductor cross-section, flexible (fine-wire), min.	10 AWG

Technical data sheet

Lightning current arrester MCF-C

Item number: 5096917

Technical data

Conductor cross-section, flexible (fine-wire), min.	6 mm²
Conductor cross-section, rigid (single-wire/multiwire), max.	2 AWG
Conductor cross-section, rigid (single-wire/multiwire), max.	35 mm²
Conductor cross-section, rigid (single-wire/multiwire), min.	10 AWG
Conductor cross-section, rigid (single-wire/multiwire), min.	6 mm²
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) [L-N]	35 kA
Nominal frequency	50 Hz
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
Pole number	1
Ports	One-Port SPD
Test class, type 1	yes
ROHS-conformant	Exempt
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 [L-N]	≤2,5
Signalling on device	Visual
SPD to EN 61643-11	Type 1+2
SPD to IEC 61643-11	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