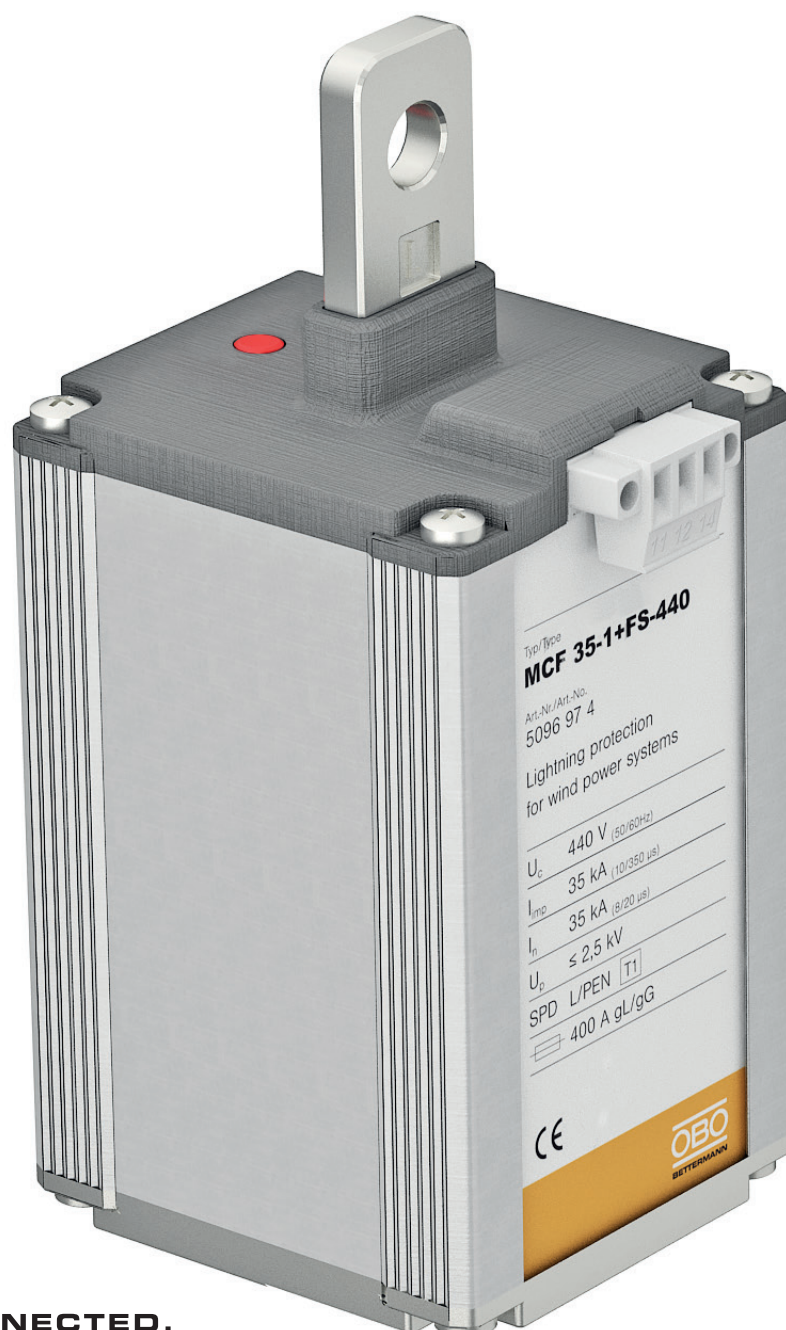


Lightning current arrester MCF:
New spark gap technology
for wind power systems

OBO
BETTERMANN

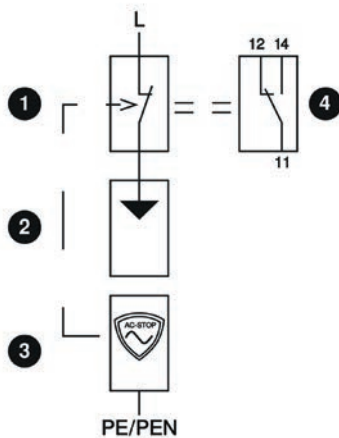


THINK CONNECTED.

Multi-Carbon-Filled technology for wind power systems

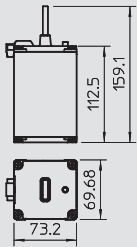
- Lightning current arrester type 1 for network side connection to the equipotential bonding, tested according IEC 61643-11
- quick and easy mounting and installation
- for use in various network systems, TN- and IT-System (with and without neutral)
- in case of fault, the backup fuse is not triggered according to new OBO AC-Stop-System
- high system availability
- encapsulated spark gap
- visual indicator and remote signaling with potential free changeover contact

nominal system voltage U_N	400/690 V
max. continuous operating voltage AC U_C	440 V
impulse discharge current for class 1 test I_{imp} (10/350 μ s)	35 kA
nominal discharge current I_n (8/20 μ s)	35 kA
follow current interrupt rating I_{fi}	50 kA _{eff}
voltage protection level U_p	$\leq 2,5$ kV
TOV (temporary overvoltage) withstand	760 V
max. backup fuse IEC	400 A
short circuit current rating I_{SCCR}	50 kA
visual indicator and remote signaling	+
approval	UL in progress
test standard IEC 61643-11	+



1. quick release system,
2. Spark gap,
3. Attenuation system/AC-STOP-System,
4. remote signaling





Lightning current arrester 1-pole

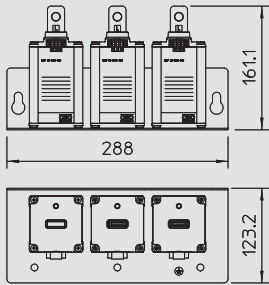


Type	Highest continuous voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MCF 35-1+FS-440	440	1-pole	1		5096 97 4

Surge arrester type 1

- For lightning protection equipotential bonding regarding DIN EN 62305 (IEC 62305)
- Lightning current arresting capacity 35 kA (10/350) per pole
- Line following current quenching 50 kA Ipeak, arrester backup fuse up to 400 A gL/gG
- Encapsulated, non-extinguishing spark gap arrester for use in distributor housings
- Disconnecter with visual indicator
- Remote signaling with potential free changeover contact

Application: 400/690 V Power System



Lightning current arrester 3-pole

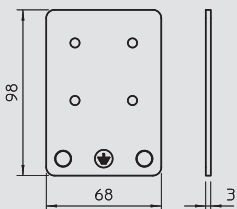


Type	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MCF 35-P3+FS-440	3-pole	1		5096 97 6

Surge arrester type 1

- Fully assembled 3-pole connection unit
- For lightning protection equipotential bonding regarding DIN EN 62305 (IEC 62305)
- Lightning current arresting capacity 35 kA (10/350) per pole
- Line following current quenching 50 kA Ipeak, arrester backup fuse up to 400 A gL/gG
- Encapsulated, non-extinguishing spark gap arrester for use in distributor housings
- Disconnecter with visual indicator
- Remote signaling with potential free changeover contact
- For finished installation on busbars and walls

Application: 400/690 V Power System



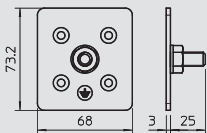
Mountingplate 1-pole



Type	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MCF-MS-P1	1-pole	1		5096 99 2

Mounting plate 1-pole

- Mounting plate for installation of the arrester MCF 35-1+FS-440
- Prefabricated hole pattern for mounting the arrester on busbars
- Required screws for installation the arrester enclosed



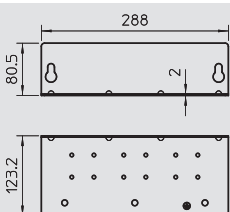
Mountingplate 1-pole M10



Type	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MCF-MS-M10	1-pole	1		5096 99 0

Mounting plate with threaded connector M10

- Mounting plate with threaded M10 connector to install the arrester MCF 35-1+FS-440
- M10 bolts for direct installation of the arrester on busbars
- Required screws for installation enclosed



Mountingplate 3-pole



Type	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MCF-MS-P3	3-pole	1		5096 99 4

Mounting plate 3-pole

- mounting plate 3-pole for installation of the arrester MCF 35-1+FS-440
- Prefabricated hole pattern for mounting the arrester on busbars
- Suitable for wall mounting
- Required screws for installation enclosed



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