

On the safe side with OBO

with surge protection in the power-side connection compartment

According to the IEC/EN standards
IEC 60364-4-44
IEC 60364-5-53
surge protection is frequently mandatory.



Only 50 mm wide
Optionally with remote signalling

Solutions from houses to
the highest lightning protection
class (LPC I)

Type 1+2 surge protection
for mounting on 40 mm
busbar system

Visual display without
power consumption

Screw fastening guarantees
permanent contact to busbar

Building Connections

OBO
BETTERMANN

MCF-NAR



- Combination arrestor, type 1+2, according to VDE 0675-6-11 (EN 61643-11)
- Mounting on 40 mm busbars TN and TT system
- Protection level ≤ 1.5 kV to protect terminals.
- Lightning equipotential bonding according to VDE 0185-305 (IEC 62305)
- Lightning current discharge capacity to 75 kA (10/350) 3-pin and up to 100 kA (10/350) 3+NPE
- Fulfils the requirements of VDE 0100-534 (IEC 60364-5-53)
- Follow current quenching capacity up to 50 kA and max. backup fuse up to 315 A gL/gG
- Spark gaps for use in the pre-meter area according to VDE-AR-N 4100
- Fulfils the requirements for use in the main power supply system in front of the meter

NAR = power-side connection compartment of the meter cabinet according to VDE-AR-N 4100: 2019-04

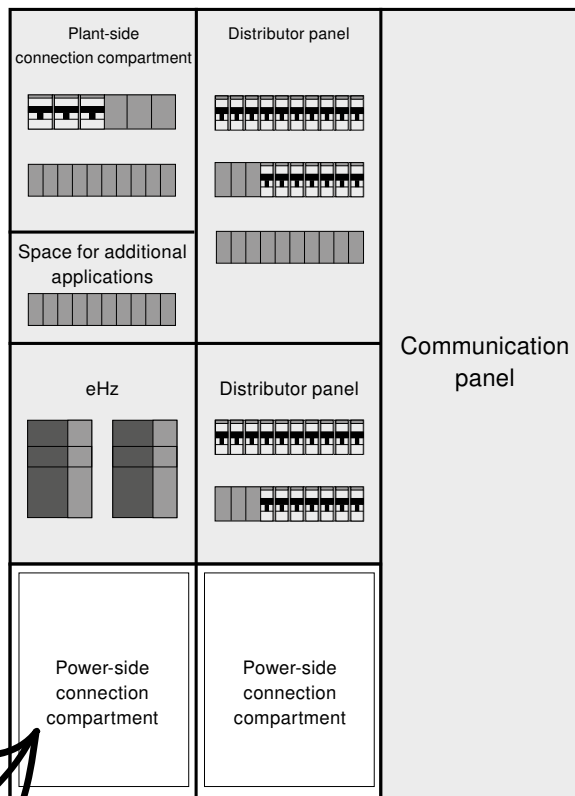
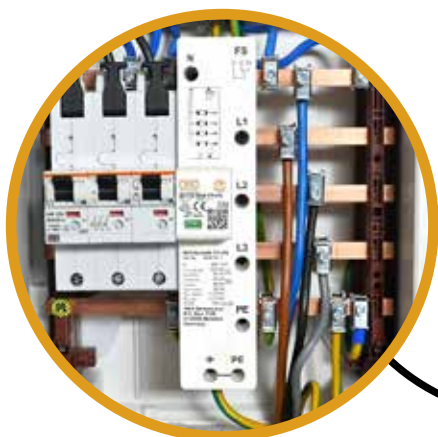


NAR = power-side connection compartment according to VDE-AR-N 4100

Mounting on the 40 mm busbars before the eHz in the power-side connection compartment fulfils the requirements:





- Surge protection at the supply point according to VDE 0100-443
- Short connection cables according to VDE 0100-534
- Visual display without power consumption according to VDE-AR-N 4100
- VDE-tested safety
- Only 50 mm wide

Safety for the installation and sensitive terminals



Surge protection for the power supply






Use at the supply point on the 40 mm busbar in the NAR

Application in the building	Power system / version for	remote signalling	I_{total} (10/350)	Max. fuse	Type	Item no.
 Without lightning protection system	TN-C/3-pin	✗	25 kA	160 A gL/gG	MCF25-NAR-TNC	5096950
	TN-C/3-pin	✓			MCF25-NAR-TNC+FS	5096953
 With exposed cable supply	TT and TN-S/3+NPE	✗	30 kA		MCF30-NAR-TT	5096961
	TT and TN-S/3+NPE	✓			MCF30-NAR-TT+FS	5096963
 With lightning protection system (LPC 3+4)	TN-C/3-pin	✗	38 kA	160 A gL/gG	MCF38-NAR-TNC	5096971
	TN-C/3-pin	✓			MCF38-NAR-TNC+FS	5096973
	TT and TN-S/3+NPE	✗	50 kA		MCF50-NAR-TT	5096975
	TT and TN-S/3+NPE	✓			MCF50-NAR-TT+FS	5096977
 With lightning protection system (LPC 1+2)	TN-C/3-pin	✗	75 kA	315 A gL/gG	MCF75-NAR-TNC	5096982
	TN-C/3-pin	✓			MCF75-NAR-TNC+FS	5096983
	TT and TN-S/3+NPE	✗	100 kA		MCF100-NAR-TT	5096985
	TT and TN-S/3+NPE	✓			MCF100-NAR-TT+FS	5096988

FS = potential-free remote signalling (NO/NC)

Surge protection for the distributor and data and information technology

No half measures – round off your protection: as recommended according to VDE 0100-443!

Application	Power system	Version	DIN EN 61643-11	I_{total} (8/20)	Max. fuse	Type	Item no.
 Sub-distributor	TT and TN-S	3+NPE	Type 2	60 kA	160 A gL/gG	V20-3+NPE-280	5095253
		3+NPE with AS	Type 2+3		63 A gL/gG	V10 Compact-AS	5093391
 Telephone	Analogue to DSL (255 MHz)	2-pole (1 DA)	Type 1+2+3/ D1+C2+C1	22.5 kA (7.5 kA 10/350)	(I max. = 0.5 A)	TD-2D-V More modern for IP telephony	5081698
 Broadband cable	Coax (F)	1-pole (75 Ohm)	Type 1+2/ D1+C2	10 kA (2 kA 10/350)	(I max. = 5 A)	DS-F F/F	5093272
 Data technology to Cat 6A/EA	RJ45 sockets	PoE++/4PPoE	C2+C1	7 kA	(I max. = 1 A)	ND-CAT6A/EA	5081800
 SAT (4x SAT- + 1x terrestrial cable)	Coax (F)	4-pole (75 Ohm) + 1 DVB-T	Type 2+3/ C2+C1	300 A	(I max. = 2 A)	TV 4+1	5083400

FS = potential-free remote signalling (NO/NC)

AS = acoustic signalling

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Building Connections

