



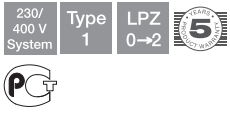


Surge protection device for energy technology, arrester, type 1 (industry)

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Combination arrester/ MCD, 255 V for TN-S and TT networks



Combination arrester, surge arrester, type 1

- Protection level < 1.3 kV allows device protection
- For lightning protection equipotential bonding to VDE 0185-305 (IEC 62305)
- Lightning current arresting capacity to 50 kA (10/350) per pole and up to 150 kA (10/350) in total
- Line following current quenching 25 kA I_{peak}, arrester backup fuse to 500 A gL/gG
- Suitable for use in pre-meter area according to the VDEW directive
- Encapsulated, non-extinguishing spark gap arrester for use in distributor housings

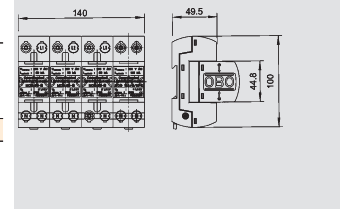
Application: Industrial systems and buildings with external lightning protection of the highest class I to IV.

Combination arrester, 3-pole + NPE



Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MCD 50-B 3+1	255	3 + NPE	1	168.000	5096 87 9

/pc.

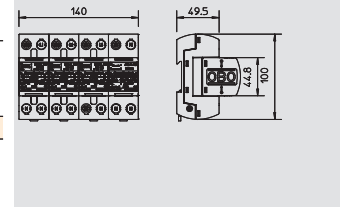


Combination arrester, 3-pole + NPE with function display



Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MCD 50-B 3+1-OS	255	3 + NPE	1	172.000	5096 83 6

/pc.

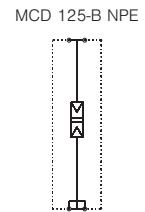
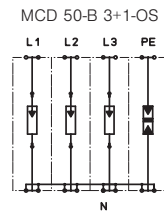
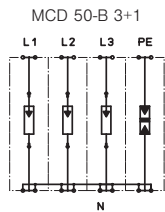
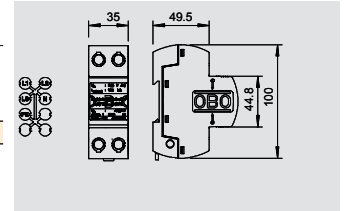


Combination arrester, 1-pole NPE



Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MCD 125-B NPE	255	NPE	1	46.500	5096 86 5

/pc.



Nominal voltage	U _N	V	230	230	230
SPD to EN 61643-11			Type 1	Type 1	Type 1
SPD to IEC 61643-11			class I	class I	class I
Lightning protection Zone LPZ			0→2	0→2	0→2
Impulse discharge current (10/350)	I _{imp}	kA	50	50	125
Total discharge current (10/350)	I _{Total}	kA	125	125	125
Nominal discharge current (8/20)	I _n	kA	50	50	125
Total discharge current (8/20)	I _{Total}	kA	125	125	125
Voltage protection level	U _p	kV	1,3	1,3	<1,3
Response time	t _A	ns	<100	<100	<100
Follow current interrupt rating	I _{ti}	kA	25	25	0.1
Maximum back-up fuse		A	500	500	
Temperature range	θ	°C	-40 - +85	-40 - +85	-40 - +85
Division unit TE (17.5 mm)			8	8	2
Degree of protection of enclosure			IP20	IP20	IP20
Connection cross-section, rigid		mm ²	10 - 50	10 - 50	10 - 50
Connection cross-section, multi-wire		mm ²	10 - 35	10 - 35	10 - 35
Connection cross-section, flexible		mm ²	10 - 25	10 - 25	10 - 25
Item No.			5096 87 9	5096 83 6	5096 86 5

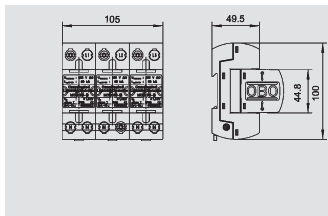
Combination arrester MCD, 255 V for TN networks

Combination arrester, surge arrester, type 1

- Protection level < 1.3 kV allows device protection
- For lightning protection equipotential bonding to VDE 0185-305 (IEC 62305)
- Lightning current arresting capacity to 50 kA (10/350) per pole and up to 150 kA (10/350) in total
- Line following current quenching 25 kA I_{peak}, arrester backup fuse to 500 A gL/gG
- Suitable for use in pre-meter area according to the VDEW directive
- Encapsulated, non-extinguishing spark gap arrester for use in distributor housings



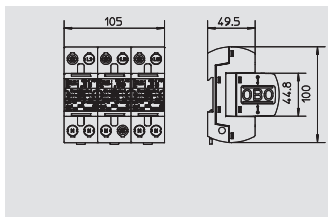
Application: Industrial systems and buildings with external lightning protection of the highest class I to IV.



Combination arrester, 3-pole

Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MCD 50-B 3	255	3-pole	1	117.000	5096 87 7

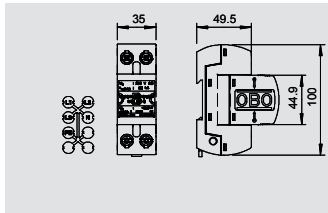
/pc.



Combination arrester, 3-pole with function display

Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MCD 50-B 3-OS	255	3-pole	1	118.000	5096 83 5

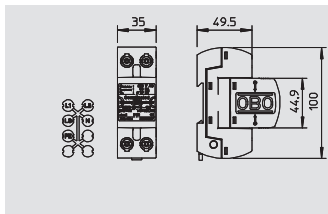
/pc.



Combination arrester, 1-pole

Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MCD 50-B	255	1-pole	1	34.400	5096 84 9

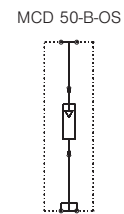
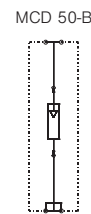
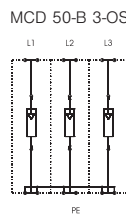
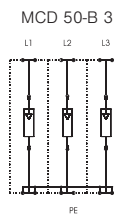
/pc.



Combination arrester, 1-pole with function display

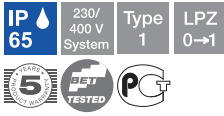
Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MCD 50-B-OS	255	1-pole	1	34.800	5096 85 2

/pc.



Nominal voltage	U _N	V	230	230	230	230
SPD to EN 61643-11			Type 1	Type 1	Type 1	Type 1
SPD to IEC 61643-11			class I	class I	class I	class I
Lightning protection Zone LPZ			0→2	0→2	0→2	0→2
Impulse discharge current (10/350)	I _{imp}	kA	50	50	50	50
Total discharge current (10/350)	I _{Total}	kA	150	150	50	50
Nominal discharge current (8/20)	I _n	kA	50	50	50	50
Total discharge current (8/20)	I _{Total}	kA	150	150	50	50
Voltage protection level	U _p	kV	1,3	1,3	<1,3	1,3
Response time	t _A	ns	<100	<100	<100	<100
Follow current interrupt rating	I _{li}	kA	25	25	25	25
Maximum back-up fuse		A	500	500	500	500
Temperature range	θ	°C	-40 - +85	-40 - +85	-40 - +85	-40 - +85
Division unit TE (17,5 mm)			6	6	2	2
Degree of protection of enclosure			IP20	IP20	IP20	IP20
Connection cross-section, rigid		mm ²	10 - 50	10 - 50	10 - 50	10 - 50
Connection cross-section, multi-wire		mm ²	10 - 35	10 - 35	10 - 35	10 - 35
Connection cross-section, flexible		mm ²	10 - 25	10 - 25	10 - 25	10 - 25
Item No.			5096 87 7	5096 83 5	5096 84 9	5096 85 2

Combination arrester in VG housing for TN-S and TT network systems



- System solution in insulating housing (IP65), surge arrester, type 1
- For lightning protection equipotential bonding to VDE 0185-305 (IEC 62305)
 - Lightning current arresting capacity to 50 kA (10/350) per pole and up to 125 kA (10/350) in total
 - Line following current quenching 25 kA Ipeak, arrester backup fuse to 500 A gL/gG
 - Suitable for use in pre-meter area according to the VDEW directive
 - Encapsulated, non-extinguishing spark gap arrester, preterminated in insulated housing (IP65)

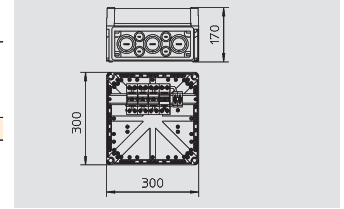
Application: Industrial systems and buildings with external lightning protection of the highest class I to IV.



VG housing with MC 50-B/3+1

Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
VG 4-B TNS+TT	255	3 + NPE	1	290.000	5089 20 0

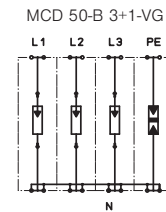
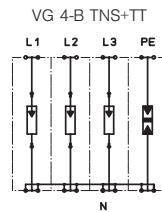
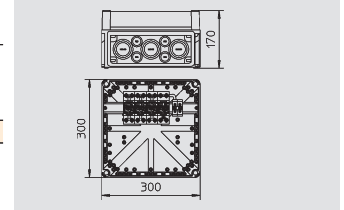
/pc.



VG housing with MCD 50-B/3+1

Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MCD 50-B 3+1-VG	255	3 + NPE	1	290.000	5096 87 5

/pc.

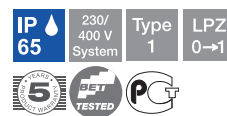


Nominal voltage	U_N	V	230
SPD to EN 61643-11			Type 1
SPD to IEC 61643-11			class I
Lightning protection Zone LPZ			0-2
Impulse discharge current (10/350)	I_{imp}	kA	50
Total discharge current (10/350)	I_{Total}	kA	125
Nominal discharge current (8/20)	I_n	kA	50
Total discharge current (8/20)	I_{Total}	kA	125
Voltage protection level	U_p	kV	<2,0
Response time	t_A	ns	<100
Follow current interrupt rating	I_{fi}	kA	25
Maximum back-up fuse		A	500
Temperature range	ϑ	°C	-40 - +85
Division unit TE (17.5 mm)			8
Degree of protection of enclosure			IP54
Connection cross-section, rigid		mm ²	10 - 50
Connection cross-section, multi-wire		mm ²	10 - 35
Connection cross-section, flexible		mm ²	10 - 25
Item No.			5089 20 0 5096 87 5

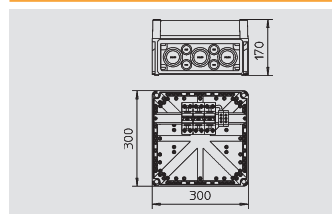
Combination arrester in VG housing for TN-C network systems

System solution in insulating housing (IP65), surge arrester, type 1

- For lightning protection equipotential bonding to VDE 0185-305 (IEC 62305)
- Lightning current arresting capacity to 50 kA (10/350) per pole and up to 150 kA (10/350) in total
- Line following current quenching 25 kA I_{peak}, arrester backup fuse to 500 A gL/gG
- Suitable for use in pre-meter area according to the VDEW directive
- Encapsulated, non-extinguishing spark gap arrester, preterminated in insulated housing (IP65)



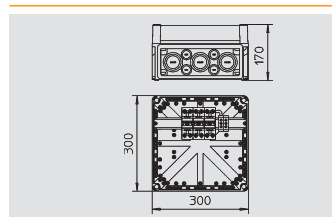
Application: Industrial systems and buildings with external lightning protection of the highest Class I to IV.



VG housing with MC 50-B/3

Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
VG 3-B TNC	255	3-pole	1	315.000	5089 21 2

/pc.



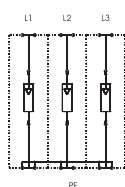
VG housing with MCD 50-B/3

Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MCD 50-B 3-VG	255	3-pole	1	315.000	5096 87 4

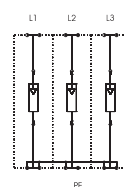
/pc.



VG 3-B TNC



MCD 50-B 3-VG



Nominal voltage	U_N	V	230	230
SPD to EN 61643-11			Type 1	Type 1
SPD to IEC 61643-11			class I	class I
Lightning protection Zone LPZ			0-1	0-2
Impulse discharge current (10/350)	I_{imp}	kA	50	50
Total discharge current (10/350)	I_{Total}	kA	150	150
Nominal discharge current (8/20)	I_n	kA	50	50
Total discharge current (8/20)	I_{Total}	kA	150	150
Voltage protection level	U_p	kV	<2,0	<1,3
Response time	t_A	ns	<100	<100
Follow current interrupt rating	I_{li}	kA	25	25
Maximum back-up fuse		A	500	500
Temperature range	ϑ	°C	-40 - +85	-40 - +85
Division unit TE (17,5 mm)			6	6
Degree of protection of enclosure			IP54	IP54
Connection cross-section, rigid		mm ²	10 - 50	10 - 50
Connection cross-section, multi-wire		mm ²	10 - 35	10 - 35
Connection cross-section, flexible		mm ²	10 - 25	10 - 25
Item No.			5089 21 2	5096 87 4



Lightning current arrester MC, 255 V for TN-S and TT networks



Surge arrester, type 1

- For lightning protection equipotential bonding to VDE 0185-305 (IEC 62305)
- Lightning current arresting capacity to 50 kA (10/350) per pole and up to 150 kA (10/350) in total
- Line following current quenching 25 kA Ipeak, arrester backup fuse to 500 A gL/gG
- Suitable for use in pre-meter area according to the VDEW directive
- Encapsulated, non-extinguishing spark gap arrester for use in distributor housings

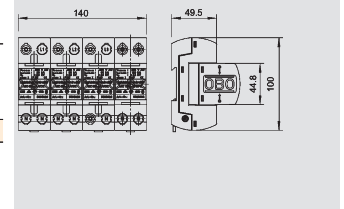
Application: Industrial systems and buildings with external lightning protection of the highest class I to IV.

Lightning current arrester, 3-pole + NPE



Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MC 50-B 3+1	255	3 + NPE	1	168.000	5096 87 8

/pc.

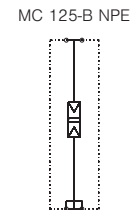
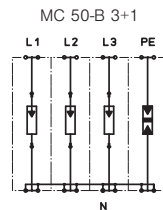
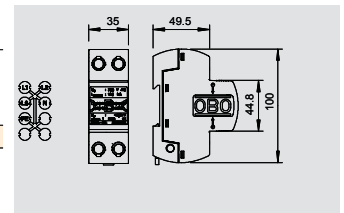


Lightning current arrester, 1-pole NPE



Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MC 125-B NPE	255	NPE	1	52.000	5096 86 3

/pc.

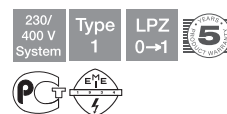


Nominal voltage	U_N	V	230
SPD to EN 61643-11			Type 1
SPD to IEC 61643-11			class I
Lightning protection Zone LPZ			0-1
Impulse discharge current (10/350)	I_{imp}	kA	50
Total discharge current (10/350)	I_{Total}	kA	125
Nominal discharge current (8/20)	I_n	kA	50
Total discharge current (8/20)	I_{Total}	kA	125
Voltage protection level	U_p	kV	< 2,0
Response time	t_A	ns	<100
Follow current interrupt rating	I_{fi}	kA	25
Maximum back-up fuse		A	500
Temperature range	ϑ	°C	-40 - +85
Division unit TE (17.5 mm)			8
Degree of protection of enclosure			IP20
Connection cross-section, rigid		mm ²	10 - 50
Connection cross-section, multi-wire		mm ²	10 - 35
Connection cross-section, flexible		mm ²	10 - 25
Item No.			5096 87 8
			5096 86 3

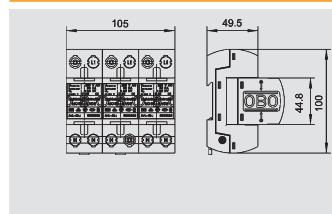
Lightning current arrester MC, 255 V for TN networks

Surge arrester, type 1

- For lightning protection equipotential bonding to VDE 0185-305 (IEC 62305)
- Lightning current arresting capacity to 50 kA (10/350) per pole and up to 125 kA (10/350) in total
- Line following current quenching 25 kA I_{peak}, arrester backup fuse to 500 A gL/gG
- Suitable for use in pre-meter area according to the VDEW directive
- Encapsulated, non-extinguishing spark gap arrester for use in distributor housings



Application: Industrial systems and buildings with external lightning protection of the highest class I to IV.

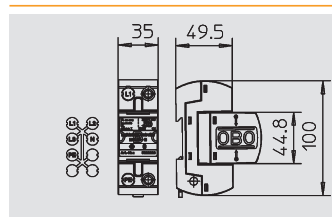


Lightning current arrester, 3-pole

Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MC 50-B 3	255	3-pole	1	117.000	5096 87 6



/pc.

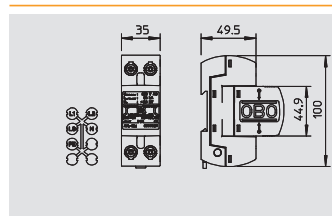


Lightning current arrester, 1-pole

Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MC 50-B VDE	255	1-pole	1	34.400	5096 84 7



/pc.



Lightning current arrester, 1-pole with function display

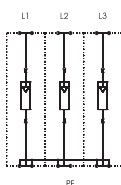
Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MC 50-B-OS	255	1-pole	1	34.800	5096 85 1



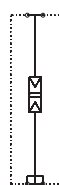
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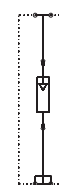
MC 50-B 3



MC 50-B VDE



MC 50-B-OS



Nominal voltage	U_N	V	230	230	230
SPD to EN 61643-11			Type 1	Type 1	Type 1
SPD to IEC 61643-11			class I	class I	class I
Lightning protection Zone LPZ			0-1	0-1	0-1
Impulse discharge current (10/350)	I_{imp}	kA	50	50	50
Total discharge current (10/350)	I_{Total}	kA	150	50	50
Nominal discharge current (8/20)	I_n	kA	50	50	50
Total discharge current (8/20)	I_{Total}	kA	150	50	50
Voltage protection level	U_p	kV	< 2,0	< 2,0	< 2,0
Response time	t_A	ns	<100	<100	<100
Follow current interrupt rating	I_{li}	kA	25	25	25
Maximum back-up fuse		A	500	500	500
Temperature range	ϑ	°C	-40 - +85	-40 - +85	-40 - +85
Division unit TE (17,5 mm)			6	2	2
Degree of protection of enclosure			IP20	IP20	IP20
Connection cross-section, rigid		mm ²	10 - 50	10 - 50	10 - 50
Connection cross-section, multi-wire		mm ²	10 - 35	10 - 35	10 - 35
Connection cross-section, flexible		mm ²	10 - 25	10 - 25	10 - 25
Item No.			5096 87 6	5096 84 7	5096 85 1

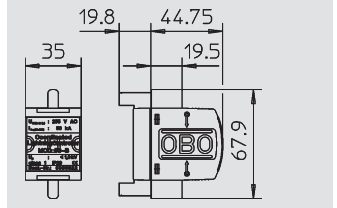
Accessories, covers and bases



Combination arrester upper part

Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MCD 50-B 0	255	1-pole	1	19.200	5096 82 2

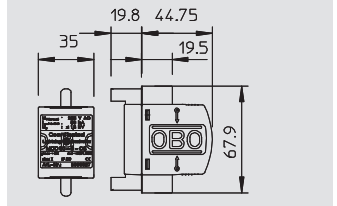
/pc.



Upper part, combination arrester with function display

Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MCD 50-B 0-OS	255	1-pole	1	19.500	5096 82 7

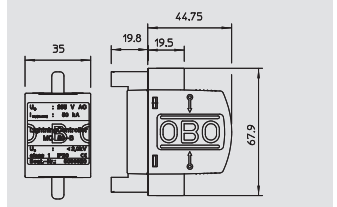
/pc.



Upper part, lightning current arrester

Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MC 50-B 0 VDE	255	1-pole	1	24.000	5096 82 0

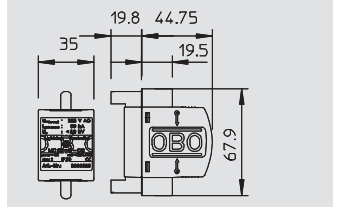
/pc.



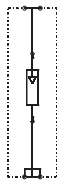
Upper part, lightning current arrester with function display

Type	Max. continuous operating voltage V	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
MC 50-B 0-OS	255	1-pole	1	19.500	5096 82 5

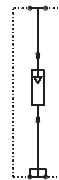
/pc.



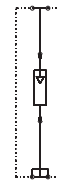
MCD 50-B 0



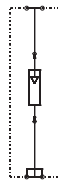
MCD 50-B 0-OS



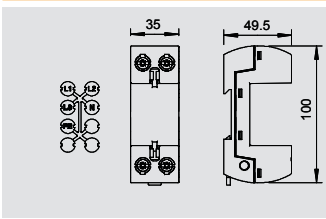
MC 50-B 0 VDE



MC 50-B 0-OS



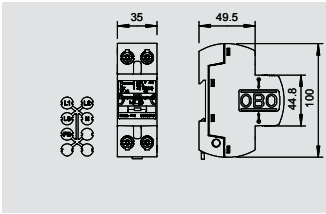
Nominal voltage	U_N	V	230	230	230	230
SPD to EN 61643-11			Type 1	Type 1	Type 1	Type 1
SPD to IEC 61643-11			class I	class I	class I	class I
Lightning protection Zone LPZ			0→2	0→2	0→1	0→1
Impulse discharge current (10/350)	I_{imp}	kA	50	50	50	50
Total discharge current (10/350)	I_{Total}	kA	50	50	50	50
Nominal discharge current (8/20)	I_n	kA	50	50	50	50
Total discharge current (8/20)	I_{Total}	kA	50	50	50	50
Voltage protection level	U_p	kV	<1,3	1,3	<2,0	< 2,0
Response time	t_A	ns	<100	<100	<100	<100
Follow current interrupt rating	I_{fi}	kA	25	25	25	25
Maximum back-up fuse		A	500	500	500	500
Temperature range	ϑ	°C	-40 - +85	-40 - +85	-40 - +85	-40 - +85
Division unit TE (17.5 mm)			2	2	2	2
Degree of protection of enclosure			IP20	IP20	IP20	IP20
Connection cross-section, rigid		mm ²	10 - 50	10 - 50	10 - 50	10 - 50
Connection cross-section, multi-wire		mm ²	10 - 35	10 - 35	10 - 35	10 - 35
Connection cross-section, flexible		mm ²	10 - 25	10 - 25	10 - 25	10 - 25
Item No.			5096 82 2	5096 82 7	5096 82 0	5096 82 5



Lightning arrester/combination arrester base

Type	Version	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
MC 50-B U VDE	1-pole	1	18.000	5096 83 9

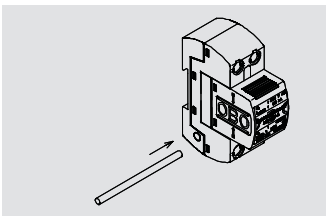
/pc.



Decoupling inductivity

Type	Rated current	Version	Version	Pack.	Weight	Item No.
	A			pcs	kg/100 pcs.	
LC 63	63	1-pole	63 A	1	43.500	5096 97 0

/pc.

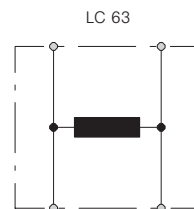


Connecting bridge

Type	Version	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
MC V3	3-pole	10	1.700	5096 88 4
MC V4	4-pole	10	2.300	5096 88 6

Cu Copper

/pc.



Max. continuous operating voltage	U_c	V	500
Rated current	I_n	A	63
Inductivity	L_n	μ H	5
Maximum back-up fuse		A	63
Temperature range	ϑ	$^{\circ}$ C	-40 - +85
Degree of protection of enclosure			IP 20
Division unit TE (17.5 mm)			2
Connection cross-section, rigid		mm ²	10 - 50
Connection cross-section, multi-wire		mm ²	10 - 35
Connection cross-section, flexible		mm ²	10 - 25
Item No.			5096 97 0

