

Technical data sheet

LightningController - MCF30-NAR-TT+FS



Item number: 5096963



Combination arrester, type 1+2, for mounting on 40 mm busbars, for TN-S and TT systems

- Protection level ≤ 1.5 kV to protect the terminals
- Lightning protection equipotential bonding according to VDE 0185-305 (IEC 62305)
- Lightning current arresting capacity up to 30 kA (10/350) 3+NPE
- Fulfills the requirements of VDE 0100-534 (IEC 60364-5-53)
- Line follow current quenching up to 50 kA and max. backup fuse up to 160 A gL/gG
- Spark gaps for use in the pre-meter area according to VDE-AR-N 4100
- With potential-free changeover contact for remote signalling

Application: Building with outside cable infeed.



Master data

Item number	5096963
Type	MCF30-NAR-TT+FS
Description 1	LightningController Rail
Description 2	3-pole with NPE + RS
Manufacturer	OBO
Dimension	255V
Smallest sales unit	1
Unit of quantity	Piece
Weight	107.6 kg
Weight unit	kg/100 pc.

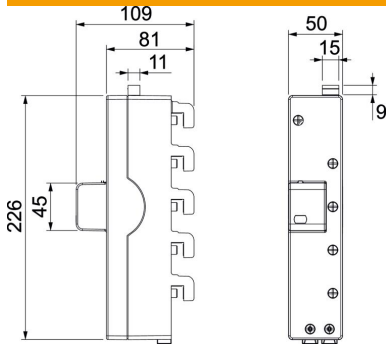
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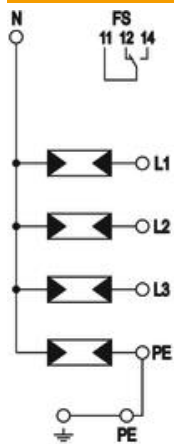
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Dimensions



Length	226 mm
Width	50 mm
Height	109 mm

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Arrester surge current (8/20 μ s) [total]	80 kA
Connection cross-section (min.)	10 mm ²
Connection cross-section, FM terminals, max.	16 AWG
Connection cross-section, FM terminals, max.	1.5 mm ²
Connection cross-section, FM terminals, min.	28 AWG
Connection cross-section, FM terminals, min.	0.5 mm ²
Response time	<100 ns
Response time [L-N]	<100 ns
Response time [N-PE]	<100 ns
Version for	3+NPE
Pole version	3+N/PE
Structural width in division units (division unit, 17.5 mm)	Miscellaneous
Operating temperature, max.	80 °C
Operating temperature, min.	-40 °C
Lightning surge current (10/350 μ s)	7.5 kA
Lightning surge current (10/350 μ s) [L-N/PE]	7.5 kA
Lightning surge current (10/350 μ s) [N/PE]	30 kA
Lightning surge current (10/350)	30 kA
Torque	35 Lbs
Torque	3.5 Nm
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]	0.1 kA
Function/defect display	Visual
Housing material	PA UL 94 V-0

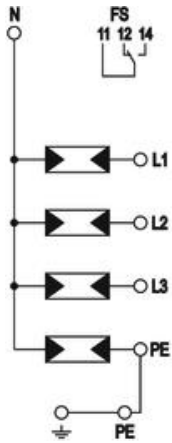
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Combined voltage protection level [L-PE]	2.5 kV
Maximum continuous voltage (L-N)	255 V
Maximum continuous voltage (N-PE)	255 V
Maximum continuous voltage AC	255
Short-circuit resistance for max. mains-side overcurrent protection	50 kA eff
Conductor cross-section, flexible (fine-wire), max.	35 mm ²
Conductor cross-section, flexible (fine-wire), max.	2 AWG
Conductor cross-section, flexible (fine-wire), min.	7 AWG
Conductor cross-section, flexible (fine-wire), min.	10 mm ²
Conductor cross-section, rigid (single-wire/multiwire), max.	2 AWG
Conductor cross-section, rigid (single-wire/multiwire), max.	35 mm ²
Conductor cross-section, rigid (single-wire/multiwire), min.	7 AWG
Conductor cross-section, rigid (single-wire/multiwire), min.	10 mm ²
Humidity, max.	95 %
Humidity, min.	5 %
Max. mains-side overcurrent protection	160 A
Maximum back-up fuse	160 A
Maximum discharge current (8/20 μs)	50 kA
Maximum discharge current (8/20 μs) [L-N]	50 kA
Maximum discharge current (8/20 μs) [N-PE]	100 kA
Minimum distance	0 mm
Installation type	Bus bar 40 mm
Nominal discharge current (8/20 μs)	20 kA
Nominal discharge current (8/20 μs) [L-N]	20 kA
Nominal discharge current (8/20 μs) [L-PE]	20 kA
Nominal discharge current (8/20 μs) [N-PE]	80 kA
Nominal frequency	50 Hz
Nominal voltage AC (50/60 Hz)	230 V
Network form	TN-S, TT
TN network form	yes
TN-C-S network form	yes
TN-S network form	yes
TT network form	yes
Ports	One-Port SPD
Switching power AC	250 V/ 2 A
Switching power DC	250 V/ 0,1 A
Protection rating	IP20

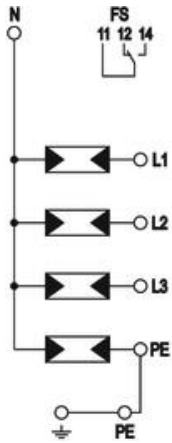
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Protective conductor current	<_ 5 μ A
Protection level	\leq 1,5
Protection level [L-N]	\leq 1,5
Protection level [N-PE]	1.5 kV
Signalling on device	Visual
SPD to EN 61643-11	Type 1+2
SPD to IEC 61643-1	Class I+II
TOV voltage [L-N] – fail safe mode – 120 min.	442 V
TOV voltage [L-N] – withstand mode – 5 s	440 V
TOV voltage [N-PE] – withstand mode – 200 ms	1200 V
Approvals	VDE
Cable type for surge protection devices	Power cable AV