

Technical data sheet

System solution, surge arrester V20 in housing, 1-pole + NPE, 280 V

Item number: 5095381



Surge arrester, type 2, according DIN EN 61643-11

- For surge voltage protection equipotential bonding to VDE 0100-443 (IEC 60364-4-44)
- Complete unit, pre-mounted and ready for connection in polycarbonate housing (IP66)
- Arresting capacity to 40 kA (8/20) per pole through high-performance varistors

Application: Equipotential bonding in main and sub-distributors.

If there is a danger of condensation forming through wind, ice, temperature or sunlight, further measures may be necessary!



Master data

Item number	5095381
Type	VG-V20-1+NPE-280
Description 1	SurgeController V20
Description 2	1+1 in housing
Manufacturer	OBO
Dimension	280V
Smallest sales unit	1
Unit of quantity	Units
Weight	74 kg
Weight unit	kg/100 pairs

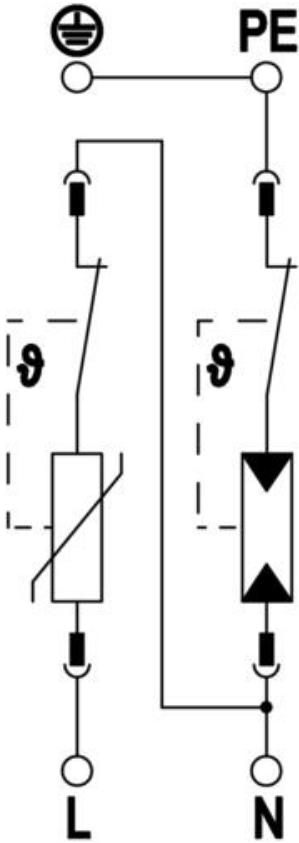
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Technical specifications



Arrester surge current (8/20 μ s) [total]	60 kA
Connection cross-section (min.)	1,5 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.	21 AWG
Connection cross-section, FM terminals, min.	0,5 mm ²
Response time	<25 ns
Response time [L-N]	25 ns
Pole version	1+N/PE
Structural width in division units (division unit, 17.5 mm)	Other
Operating temperature, max.	80 °C
Operating temperature, min.	-40 °C
Torque	35 Lbs
Torque	4 Nm
Torque for FM terminal	1,7 Lbs
Torque for FM terminal	0,2 Nm
Remote signalling	no
Follow current quenching capacity (eff) [N-PE]	0,1 kA
Function/defect display	Optical
Maximum continuous voltage (L-N)	280 V
Maximum continuous voltage (N-PE)	255 V
Maximum continuous voltage AC	280
Maximum continuous voltage DC	350
Integrated back-up fuse	no
Short-circuit resistant	yes
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.	16 AWG
Conductor cross-section, flexible (fine-wire), min.	1,5 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.	16 AWG
Conductor cross-section, rigid (single-wire/multiwire), min.	1,5 mm ²
Humidity, max.	95 %
Humidity, min.	5 %
Max. mains-side overcurrent protection	160 A gL/gG
Maximum back-up fuse	160 A

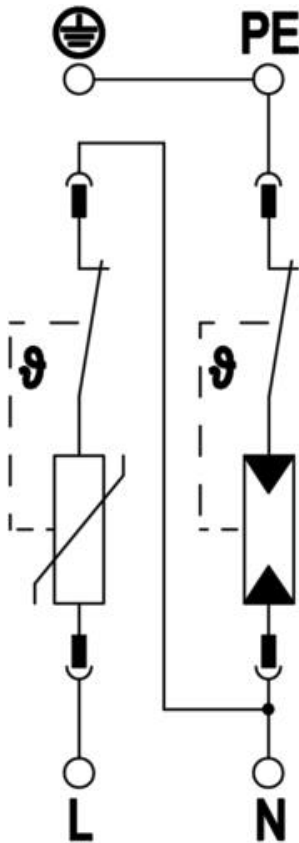
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Maximum discharge current (8/20 μ s)	40 kA
Maximum discharge current (8/20 μ s) [L-N]	40 kA
Minimum distance	1,5 mm
Installation type	Pre-mounted in the housing
Nominal discharge current (8/20 μ s)	20 kA
Nominal discharge current (8/20 μ s) [L-N]	20 kA
Nominal discharge current (8/20 μ s) [N-PE]	40 kA
Nominal voltage AC (50/60 Hz)	230 V
Network form	Miscellaneous
Ports	One-Port SPD
Test class, type 2	yes
Residual voltage [L-N] @ 1 kA	0,7 kV
Residual voltage [L-N] @ 5 kA	0,9 kV
Protection rating	IP66
Protective conductor current	<_2 μ A
Protection level	\leq 1,3
Protection level [L-N]	\leq 1,3
Protection level [N-PE]	1,3 kV
Signalling on device	Optical
SPD to EN 61643-11	Type 2
SPD to IEC 61643-1	Class II
SPD to UL 1449	Type 4
TOV voltage [L-N] – fail safe mode – 120 min.	440 V
TOV voltage [L-N] – withstand mode – 5 s	335 V
TOV voltage [N-PE] – withstand mode – 200 ms	1200 V
Approvals	UL ÖVE