

Technical data sheet

CombiController V80 280 V

Item number: 5093870



Upper parts, lightning current and surge arrester, type 1+2

- For lightning current equipotential bonding to VDE 0185-305 (IEC 62305)
- Lightning current arresting capacity of 12.5 kA (10/350) per pole
- Impulse current arresting capacity up to 80 kA (8/20)
- Modular, plug-in arrester with cut-off unit and visual status display
- Locking mechanism with vibration protection and voltage keying
- Plastic to UL 94 V-0

Application: Lightning current equipotential bonding for buildings of Class III and IV.

* Complete = cover and base



Master data		
Item number	5093870	
Type	V80-0-280	
Description 1	CombiController V80	
Description 2	plug-in arrester	
Manufacturer	OBO	
Dimension	280V	
Smallest sales unit	1	
Unit of quantity	Piece	
Weight	9.05 kg	
Weight unit	kg/100 pc.	

Dimensions		

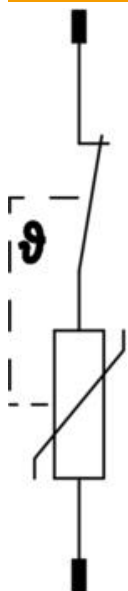
Technical data sheet

CombiController V80 280 V

Item number: 5093870



Technical data



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
Blow-out	no
Structural width in division units (division unit, 17.5 mm)	1
Operating temperature, max.	80 °C
Operating temperature, min.	-40 °C
Lightning surge current (10/350 µs)	12.5 kA
Lightning surge current (10/350 µs) [L-N/PE]	12.5 kA
Lightning surge current (10/350 µs) [N/PE]	50 kA
Torque	35 Lbs
Torque	4 Nm
Torque for FM terminal	1.7 Lbs
Torque for FM terminal	0.2 Nm
Installation location	Interior
Function/defect display	Visual
Housing material surge protection components	PA UL 94 V-0
Maximum continuous voltage (L-N)	280 V
Maximum continuous voltage AC	280 V
Integrated back-up fuse	no
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

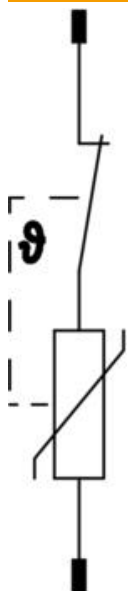
Technical data sheet

CombiController V80 280 V

Item number: 5093870



Technical data



Maximum discharge current (8/20 µs)	80 kA
Maximum discharge current (8/20 µs) [L-N]	80 kA
Minimum distance	1.5 mm
Installation type	DIN rail 35 mm
Nominal discharge current (8/20 µs)	40 kA
Nominal discharge current (8/20 µs) [L-N]	40 kA
Nominal frequency	50 Hz
Nominal voltage AC (50/60 Hz)	230 V
Network form	Other
Pole number	1
Ports	One-Port SPD
Residual voltage [L-N] @ 1 kA	0.7 kV
Residual voltage [L-N] @ 12.5 kA	1 kV
Residual voltage [L-N] @ 5 kA	0.8 kV
Residual voltage [L-N] @ 7 kA	0.9 kV
Protection rating	IP20
Protective conductor current	< 600 µA
Protection level	≤1,4
Protection level [L-N]	≤1,4
Signalling on device	Visual
SPD to EN 61643-11	Type 1+2
SPD to IEC 61643-1	Class I+II
SPD to UL 1449	Type 4
Permitted temperature range, max.	80 °C
Permitted temperature range, min.	-40 °C
TOV voltage [L-N] – fail safe mode – 120 min.	438 V
TOV voltage [L-N] – withstand mode – 5 s	334 V
Approvals	ÖVE