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E-Mobility

Surge protection for charging infrastructure

Net Defender



- · Low protection level at a high current load
- Support for Power over Ethernet ++ (PoE++/4PPoE) up to 1A according to IEEE 802.3
- Tested transmission qualities in networks up to 10 GBit (Class EA) or CAT6A
- Rapid installation due to pluggable design
- High-quality RJ45 sockets
- Incl. DIN rail fastening set and earthing cable
- Earthing via DIN rail or connection cable

Surge arrester V20



- For surge protection equipotential bonding in accordance with VDE 0100-443 (IEC 60364-4-44)
- Arresting capacity up to 40 kA (8/20) per pin through high-performance varistors
- Modular, plug-in arrester with dynamic cut-off unit and visual status display
- Locking function with vibration protection and voltage coding
- The FS variants have a potential-free changeover contact for remote signalling

ND-CAT6A/EA

Testing standard	IEC 61643-21
Category	Typ 2+3 / C2+C1
LPZ	1 -> 3
Maximum continuous voltage AC	41 V
Maximum continuous voltage DC	58V
Impulse durability wire-wire	C1: 0,3 kV / 0,15 kA (8/20µs)
Impulse durability wire-earth	C2: 2 kV / 1 kA (8/20µs)
Arrester surge current (8/20)	7 kA
Protection level wire-wire	<120 V
Protection level wire-earth	<700 V
Frequency range	>500 MHz

V20-3+NPE-280

SPD to EN 61643-11		Typ 2
SPD to UL 1449		Type 4
Nominal voltage AC (50/60 Hz)	Un	230 V
Maximum continuous voltage AC	U _C	280 V
Nominal discharge current (8/20 µs)	I n / L-N	20 kA
Maximum discharge current (8/20 μs)	l _{max}	40 kA
Arrester surge current (8/20 µs) [total]	total	60 kA
Protection level [L-N]	Up	1,3 kV
Protection level [L-N] @ 1 kA	U _{res}	0,7 kV
Protection level [L-N] @ 5 kA	U _{res}	0,9 kV
Short-circuit resistance for max, mains-side overcurrent protection		50 kA eff
Protection type		IP20
Approvals		UL, ÖVE, VDE

Retrofit type 2 surge protection and data cable protection quickly and easily:

Installation directly in the charging station

or

Installation in the connection and media distribution system

Our expert tip:

For buildings with an existing external lightning protection system, IEC 62305-3 requires T1+T2 combination surge arresters in both the charging station and the connected low-voltage distribution system.

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