

## Surge protection device - UBK 2-500 - 2798530

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DIN rail module with coarse surge protection for two signal wires. Self-contacting grounding foot for mounting on NS 32 or NS 35/7.5, housing width: 17.5 mm. Design: 500 V AC



### Key Commercial Data

Packing unit	10 pc
GTIN	 4 017918 073800
GTIN	4017918073800
Weight per Piece (excluding packing)	60.010 g
Custom tariff number	85363010
Country of origin	Greece

### Technical data

#### Dimensions

Height	90 mm
Width	17.5 mm
Depth	46 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 80 °C
Degree of protection	IP20

#### General

Housing material	PA 6.6
Flammability rating according to UL 94	V-2
Color	black
Standards for clearances and creepage distances	IEC 60664-1
Type	DIN rail module, one-piece
Direction of action	Line-Earth Ground

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## Technical data

### Protective circuit

IEC test classification	C2 + D1
VDE requirement class	C2 + D1
Nominal voltage $U_N$	500 V AC
Maximum continuous voltage $U_C$	500 V AC
Rated current	2 A
Operating effective current $I_C$ at $U_C$	$\leq 1 \mu A$
Residual current $I_{PE}$	$\leq 1 \mu A$
Nominal discharge current $I_n$ (8/20) $\mu s$ (line-earth)	10 kA
Pulse discharge current $I_{imp}$ (10/350) $\mu s$	2.5 kA
Output voltage limitation at 1 kV/ $\mu s$ (line-line) static	$\leq 2.5$ kV
Output voltage limitation at 1 kV/ $\mu s$ (line-earth) static	$\leq 1.5$ kV
Voltage protection level $U_p$ (line-line)	3.5 kV (C2 - 10 kV / 5 kA)
Voltage protection level $U_p$ (line-earth)	2.2 kV (C2 - 10 kV / 5 kA)
Response time $t_A$ (line-line)	$\leq 100$ ns
Response time $t_A$ (line-earth)	$\leq 100$ ns
Input attenuation aE, asym.	0 dB (up to 30 MHz in 150 Ohm system)
Cut-off frequency $f_g$ (3 dB), sym. in 150 Ohm system	< 60 MHz
Capacity (line-line)	< 7 pF
Max. required back-up fuse	2 A (gL)

### Connection data

Screw thread	M3
Tightening torque	0.5 Nm ... 0.6 Nm
Stripping length	8 mm
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section solid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section AWG	24 ... 12

### Connection, equipotential bonding

Stripping length	8 mm
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12

### Standards and Regulations

Standards/specifications	EN 61643-21/A1
	IEC 61643-21/A1

### Environmental Product Compliance

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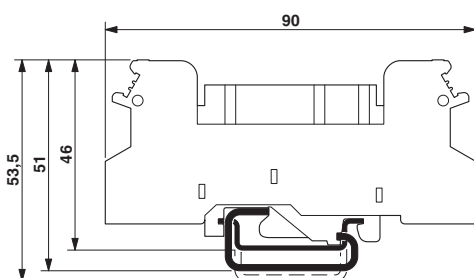
## Technical data

### Environmental Product Compliance

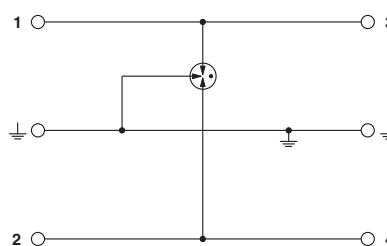
REACH SVHC	Lead 7439-92-1
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## Drawings

Dimensional drawing



Circuit diagram



## Classifications

### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

### ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943
ETIM 6.0	EC000943

### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

## Surge protection device - UBK 2-500 - 2798530

### Approvals

Approvals

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Approvals

EAC

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Ex Approvals

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### Approval details

EAC		RU C- DE.A*30.B01561
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