

## 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

The illustration shows version UBK 2-110



### Key commercial data

Packing unit	10 pc
GTIN	 4 017918 073800
Weight per Piece (excluding packing)	60.01 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
Inflammability class according to UL 94	V2
Color	black
Standards for air and creepage distances	IEC 60664-1
Type	Rail-mountable module, one-piece
Direction of action	Line-Earth Ground

#### Protective circuit

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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 $U_C$ (wire-ground)	500 V AC
Nominal current $I_N$	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) $\mu s$ (Core-Earth)	10 kA
Impulse discharge current (10/350) $\mu s$ , peak value $I_{imp}$	2.5 kA
Output voltage limitation at 1 kV/ $\mu s$ (Core-Core) static	$\leq 2.5$ kV
Output voltage limitation at 1 kV/ $\mu s$ (Core-Earth) static	$\leq 1.5$ kV
Voltage protection level $U_p$ (core-core)	3.5 kV (C2 - 10 kV/5 kA)
Voltage protection level $U_p$ (core-ground)	2.2 kV (C2 - 10 kV/5 kA)
Response time $t_A$ (Core-Core)	$\leq 100$ ns
Response time $t_A$ (Core-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 (Core-Core)	< 7 pF
Surge protection fault message	None
Max. required back-up fuse	2 A (gL)

### Connection data

Screw thread	M3
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded 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/kcmil min.	24
Conductor cross section AWG/kcmil max	12

### Connection, equipotential bonding

Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded 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/kcmil min.	24
Conductor cross section AWG/kcmil max	12

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## Classifications

### eCl@ss

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

### ETIM

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

### UNSPSC

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

## Approvals

### Approvals

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Approvals

EAC

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Ex Approvals

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Approvals submitted

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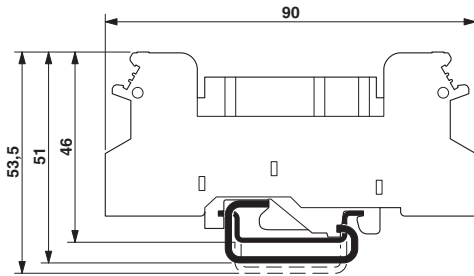
### Approval details

EAC
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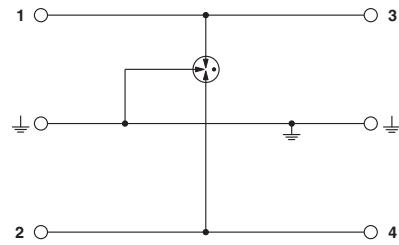
## Drawings

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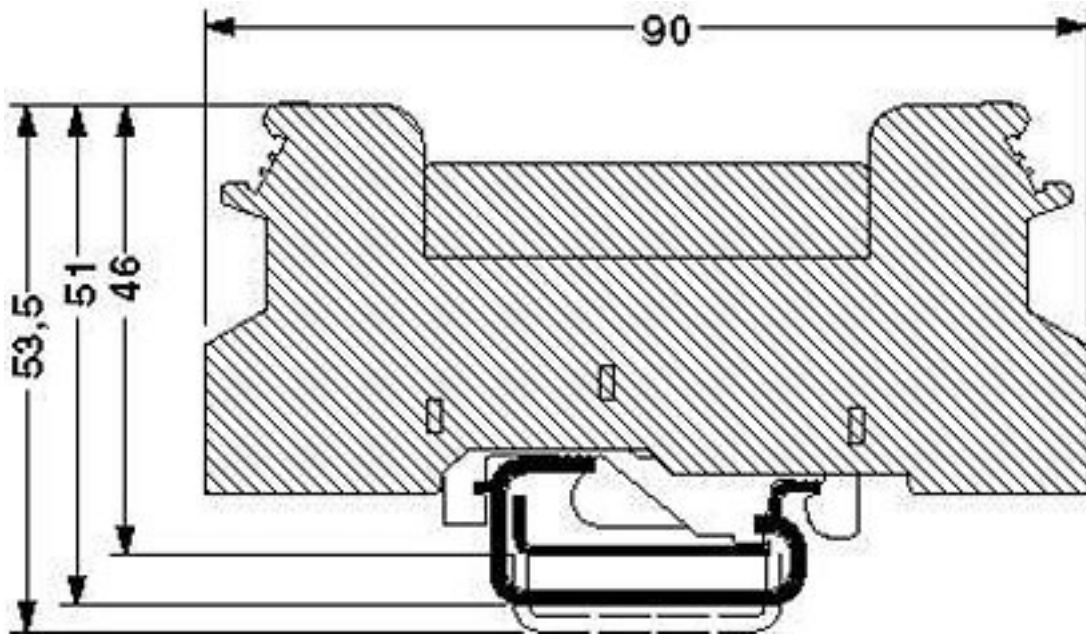
Dimensioned drawing



Circuit diagram



Dimensioned drawing



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Circuit diagram

