

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	
GTIN	4017918073800

Technical data

Dimensions

Height	90 mm
Width	17.5 mm
Depth	46 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	1 Div.

Ambient conditions

Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 mm (amsl (above mean sea level))
Degree of protection	IP20

General

Housing material	PA 6.6
Flammability rating according to UL 94	V-2
Color	jet black RAL 9005
Standards for clearances and creepage distances	IEC 60664-1
Mounting type	DIN rail: 35 mm
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
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) μs (line-line)	10 kA
Nominal discharge current I_n (8/20) μs (line-earth)	10 kA
Pulse discharge current I_{imp} (10/350) μs	2.5 kA
Output voltage limitation at 1 kV/ μs (line-line) static	≤ 2.5 kV
	≤ 2.7 kV (4 kV (1.2/50) μs)
Output voltage limitation at 1 kV/ μs (line-earth) static	≤ 1.5 kV
	≤ 1.7 kV (4 kV (1.2/50) μs)
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)
	2.3 kV (I_{imp} -2.5 kA)
Response time t_A (line-line)	≤ 100 ns
Response time t_A (line-earth)	≤ 100 ns
Input attenuation aE, sym.	typ. 0 dB (≤ 30 MHz / 50 Ω)
Cut-off frequency f_g (3 dB), sym. in 50 Ohm system	typ. 60 MHz
Capacity (line-line)	typ. 7 pF
Max. required back-up fuse	2 A (gL)
Impulse durability (line-line)	C2 - 10 kV / 5 kA
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	D1 - 2.5 kA
Alternating current carrying capacity (line-line)	10 A - 1 s
Alternating current carrying capacity (line-earth)	10 A - 1 s

Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 Nm ... 0.6 Nm
Stripping length	8 mm
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section solid	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	24 ... 12

Standards and Regulations

Standards/specifications	IEC 61643-21 2000 + A1:2008
	EN 61643-21 2001 + A1:2009

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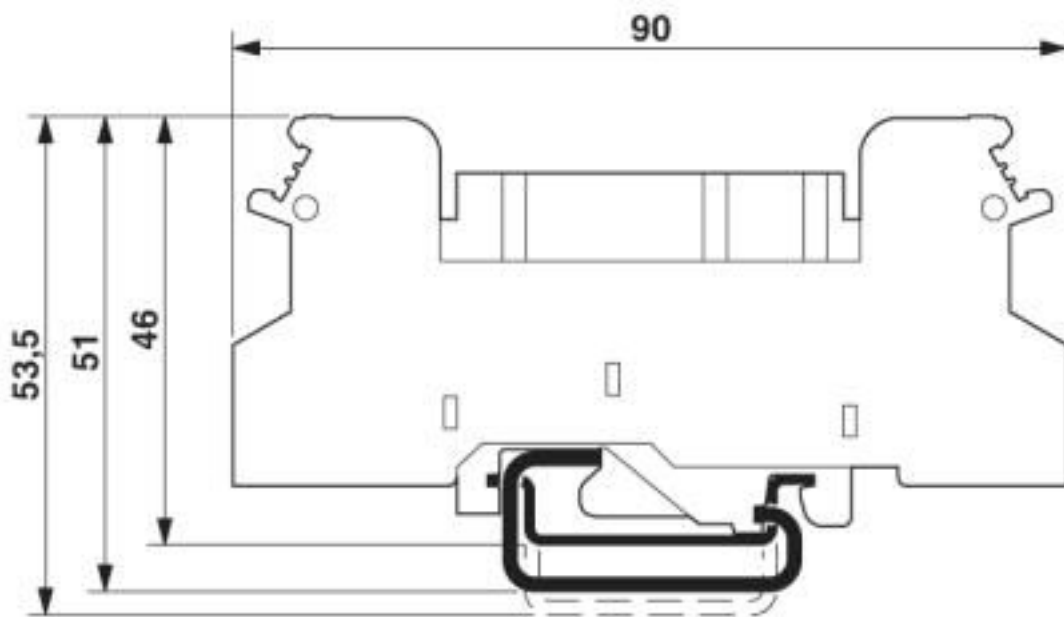
Technical data

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

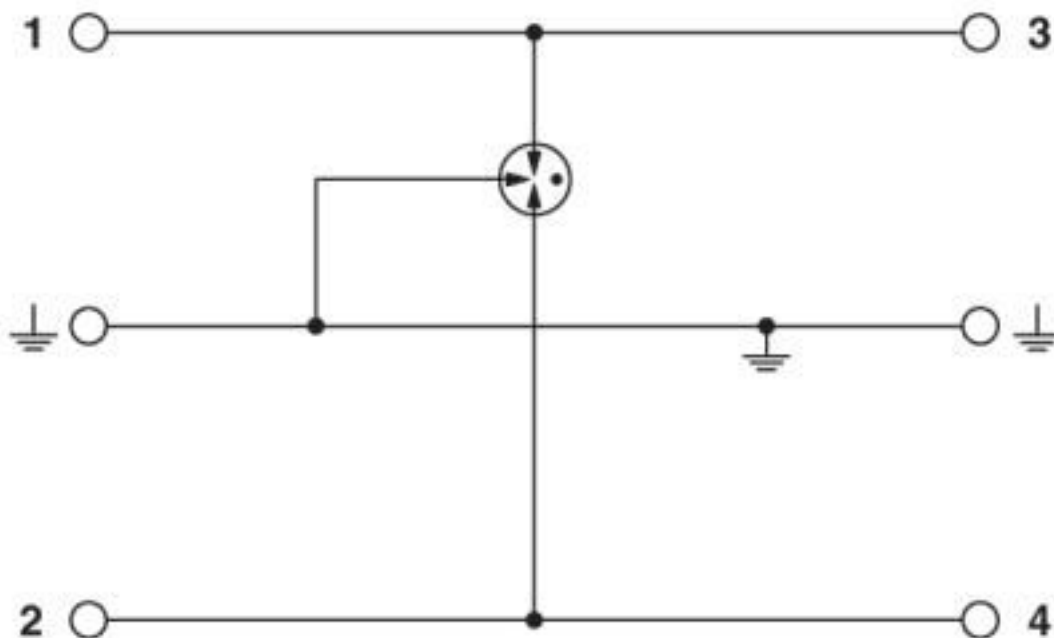
Drawings

Dimensional drawing



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Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27130807
eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
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
ETIM 7.0	EC000943

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610

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Classifications

UNSPSC

UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

Approvals


Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC		RU C- DE.*09.B.00169
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