Data Surge Protector SPD ALPU Outdoor Gigabit Ethernet/PoE++ Shielded RJ45 SASD, GDT CE Compliant, EN/IEC 60950-1, UL 497B

ALPU-F140

Features

- NEMA TS2 Tested and Compliant
- UL 497B, EN/IEC60950-1
- Gigabit Ethernet/PoE++
- Patented Weatherized Wiring Grommet
- Configurable Weep Holes
- Shielded RJ-45
- Conformal Coated PCBA
- Dielectric Lube to Weatherize RJ-45 Connections
- Pole or Wall Mount

Applications

- Traffic Control Systems
- Gigabit Ethernet/PoE++ Networks
- Telecommunications Base Stations
- WISP/ISP
- IT & Data Centers
- Point-to-Point Links
- Control Lines and Sense Loops
- Oil & Gas

Description

Data surge protector (also known as SPD or lightning protector) ALPU-F140 from Transtector is an outdoor style SPD that utilizes state of the art SASD/GDT technology to protect critical equipment in Gigabit Ethernet/PoE++ protocol data networks while remaining transparent to data throughput. This surge protector provides effective protection against electrical transient surges that are generated both by external lightning events and by internal switching events and supports long-term system reliability by absorbing high amounts of transient energy while maintaining a very low clamping voltage. Transtector Data Signal surge protectors are available in stock with same day shipping.

Specifications Table

Description	Minimum	Typical	Maximum	Units
Connectors		Shielded RJ45		
Data Protocols		Gigabit Ethernet/PoE++		
Data Rate			1,000	Mb/s
Characteristic Impedance			100	Ohms
				Ohms
Power over Ethernet Protocols		PoE++		
Vdc Rating (Data)	48		60	Vdc
PoE Power			100	W
PoE Current Per Pin			1.5	A

Electrical Specification Notes:

Surge Protection Specification

Description	Minimum	Typical	Maximum	Units
Surge Protection Technology		SASD, GDT		
Protected Pins		[1,2], [3,6], [4,5], [7,8]		
Protection Modes		L-G, L-L, S-G		

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CE Compliant, EN/IEC 60950-1, UL 497B

ALPU-F140

Surge Protection Specification

Description	Minimum	Typical	Maximum	Units
			2	kA
...L-L			0.1	kA
...S-G			20	kA
Response Time			5	ns

Mechanical Specifications

Size

Length	4.5 in	[114.3 mm]
Width/Diameter	4 in	[101.6 mm]
Height	1.7 in	[43.18 mm]
Weight	0.33 lbs	[149.69 g]

Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating Temperature   -40 to +65 deg C
Storage Temperature   -40 to +75 deg C
Environmental Protection Rating   IP65, NEMA 3R

Environmental Specification Notes:

Installation

Mount Type   Pole/Wall
Installation Hardware   Combination Drive Screw
Grounding   #10 - #12 AWG Ring Terminal

Compliance Certifications

CE Compliant   Yes
UL Compliant   Yes
Certifications   UL 497B
                 EN/IEC 60950-1
                 NOM
                 NEMA TS2

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ALPU-F140

Transtector Systems specializes in protection of highly sensitive, low voltage equipment through its patented, non-degrading silicon diode technology and custom filters. Our power quality expertise translates into a diverse product offering including AC, DC, and signal applications as well as integrated cabinets, power distribution panels and EMP hardened devices.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Data Surge Protector SPD ALPU Outdoor Gigabit Ethernet/PoE++ Shielded RJ45 SASD, GDT CE Compliant, EN/IEC 60950-1, UL 497B ALPU-F140

URL: https://www.transtector.com/data-surge-protector-spd-alpu-outdoor-gigabit-alpu-f140-p.aspx

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. Transtector reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Transtector does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Transtector does not assume liability arising out of the use of any part or document.

ALPU-F140 CAD Drawing

Data Surge Protector SPD ALPU Outdoor Gigabit Ethernet/PoE++ Shielded
RJ45 SASD, GDT CE Compliant, EN/IEC 60950-1, UL 497B

GROUND LUG

2X SHIELDED RJ-45 JACKS
LINE/EQUIP

4.45 [113.0]

SLOT FOR
TIE WRAP
INSTALLATION

4.02 [102.2]

ALPUFit

WEATHERIZED GROMMET WITH
3 POSITIONS FOR IN/OUT
SERVICE WIRING AND GROUND

1.69 [43.0]

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/17/19	DWR

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SCALE 1:2

REV A

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PART NUMBER
ALPU-F140

DRAWN BY
HMB

CAGE
30992

SIZE
A

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:
X=± .2 [5.08]   FRACTIONS:
.XX=± .01 [.25]   ± 1/32
.XXX=± .005 [.13] ANGLES ± 1°

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

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