PolyPhaser
an INFINITE brand

Outdoor Twisted Pair Lightning Surge Protector, 1 Pair T1/E1, RS-232/422/485, 1 Pair 24Vdc, Isolated DC Ground, UL 497B

IX-1L1DC24-IG

Features

- UL 497B certified
- Data protection modules optimized for Ethernet, PoE, RS-232, RS-422, RS-485, T1/E1 or POTS
- DC protection modules optimized or 12Vdc, 24Vdc, 48Vdc, 56Vdc or 72Vdc, available with isolated ground
- IP67 weatherized enclosure
- Pole mount kit available

Applications

- Enterprise networks
- Point to point radios
- PoE equipment
- Telco backhaul
- Internet service providers

Description

Modular data surge protector (also known as lightning arrestor) IX-1L1DC24-IG from PolyPhaser utilizing optimized designs for the most common synchronous data protocols that enables effective, weatherized protection for up to five twisted pairs. Protects critical hardware from lightning and other induced transients while remaining transparent to network traffic. Several commonly used configurations are available, while modules are also sold separately to support custom applications.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Data Rate			25	Mb/s
Series Impedance (Data)		1		Ohms
Capacitance (Differential)		100		pF
Capacitance (Common)		100		pF
DC Operating Current			2	A
Series Impedance (DC)		0.05		Ohms
Ground Configuration		Isolated DC Ground		

Surge Protection Specification

Description	Minimum	Typical	Maximum	Units
Surge Telcordia GR-1089-CORE 10/1000μs			100	A
Turn On Voltage (Data)		12		Vdc
Turn On Voltage (DC)		33		Vdc

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
Outdoor Twisted Pair Lightning Surge Protector, 1 Pair T1/E1, RS-232/422/485, 1 Pair 24Vdc, Isolated DC Ground, UL 497B IX-1L1DC24-IG

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Mechanical Specifications
Size

Length	5.25 in [133.35 mm]
Width/Diameter	2.5 in [63.5 mm]
Height	1.09 in [27.69 mm]
Weight	1 lbs [453.59 g]

Configuration

Connector	Screw Terminal Receptacle

Environmental Specifications
Temperature

Operating Range	-40 to +65 deg C

Environmental Specification Notes:
MEETS BELLCORE #TA-NWT-000487 PROCEDURE 4.11, WIND DRIVEN (70 MPH) RAIN INTRUSION TEST

Installation

Mount Type	Panel Mount

Compliance Certifications

UL Compliance	UL 497B

Plotted and Other Data
Notes:

PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, DC Pass and Ultra Low PIM. Backed by responsive service and expert technical support PolyPhaser continually expands its product offering and services to serve engineers' urgent needs for RF components in mission critical communication networks.

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URL: https://www.polyphaser.com/surge-protector-1-pair-t1-e1-24vdc-ix-1l1dc24-ig-p.aspx

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IX-1L1DC24-IG CAD Drawing

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

ITEM	QTY	DESCRIPTION
10	1	HARDWARE KIT 9100-0371
9	1	LUBRICANT SILICONE PKG
8	2	POLYBAG 3X5 2MIL
7	2	CABLE TIE NYLON 4IN
6	2	SCREW 1/4-20X.250 PHIL SS
5	2	SCREW 6-20 X .25 TYPE B PAN HEAD PHIL
4	2	TERM RING 6 16-14
3	2	GROMMET IX .225 DIA
2	2	GROMMET IX .100 DIA
1	4	SCREW 8-32X0375 PHIL MS PAN 18-8 SS
		SCREW M4-0.7X20mm PHIL SS FLAT

DATA2 1DC@24V ISO GND

TITLE

SIZE A | CAGE 30992 | PROD CAT DSP | DRAWING NUMBER IX-1L1DC24-IG | REV A

SHEET 1 of 1

SCALE 1:2

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

TOLERANCES:
FRACTIONS=± 1/32   .XX=± .03
ANGLES=± 1°   .XXX=± .010

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THIRD-ANGLE PROJECTION

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