

Surge Protection Devices – SLP Series

Specifications SLP Series

All figures typical at 77°F (25°C)
unless otherwise stated

Maximum surge current

20kA (8/20µs waveform) per line

Leakage Current

<1mA @ working voltage

Maximum rated load current

1.50A

Loop resistance

2 Ohm

Capacitance

Line - Line - 60pF

Bandwidth

-0.1dB @9kHz - 37MHz

-3dB @50MHz

Response time

<1ns

Ambient temperature

-40°C to +80°C (working)

-40°F to +176°F (working)

-40°C to +80°C (storage)

-40°F to +176°F (storage)

Humidity

5 to 95% RH (non-condensing)

Terminals

2.5mm² (12 AWG)

Electrical connections

Plug/header screw terminal strip

Mounting

T-section DIN-rail (35 x 15mm rail)

Weight

5oz (140g approximately)

Case flammability

UL94-V0

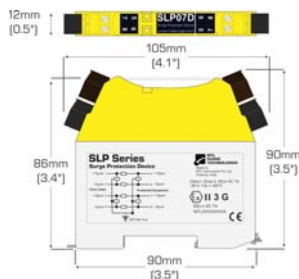
EMC compliance

BS EN 60950:1992

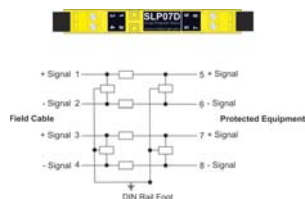
BS EN 61000-6-2:1999

BS EN 61010-1:1993

Dimensions



Connections



Approvals

Country (Authority)	Standard	Certificate/File No.	Approved for	Product
ATEX	BS EN 60950:1992 BS EN 61000-6-2:1999 BS EN 61010-1:1993	ATEX0377X	EEx N IIC T4	SLP07D, SLP16D, SLP32D
USA (FM)	Class Nos. 3600 (1998), 3610 (1999), 3611 (1999), 3615 (1989), 3810 incl. Supp 1 (1995-07 (1989-03), ANSI/NEMA 250 (1991), ISA-S12.0.01 (1999)	3011208	Intrinsically Safe: I/1/A-D, I/O/II C Non incandive: I/2/A-D, I/2/II C	SLP07D, SLP16D, SLP32D
Canada (FM)	C22.2 No. 213, 142, 94, 157, 30 ANSI/NEMA 250 CAN/CSA-E79-0 CAN/CSA-E79-11	3025374	IS/I/1/ABCD I/O/Ex ia/IIC I/O/Ex ib/IIC NE/I/2/ABCD NE/I/2/IIC	SLP07D, SLP16D, SLP32D



Ordering Data

Part No.

SLP07D

Part No.

SLP16D

Part No.

SLP32D

Technical Data

Nominal voltage U _N	7V
Rated voltage (MCOV) U _C	8V
Nominal current I _N	1.50A
Nominal discharge current (8/20µs) I _{SN}	3kA
Max discharge current (8/20µs) I _{max}	20kA
Lightning impulse current (10/350µs) I _{imp}	2.5kA
Residual voltage @ I _{SN} U _P	10V
Voltage protection level @ 1kV/µs U _P	<8V
Bandwidth f _G	50MHz
Capitance C	60pF
Series resistance R	1.0
Operating Temperature Range	-40°C to +80°C
Category tested	A2, B2, C1, C2, C3, D1
Overstressed fault mode in=3kA	22kA
Impulse durability (8/20µs)	10kA
Degree of protection	IP20
AC durability	1Arms, 5T
Service conditions	80kPa - 160kPa 5% - 95% RH

16V	24V
18V	32V
1.50A	1.50A
3kA	3kA
20kA	20kA
2.5kA	2.5kA
23V	40V
<18V	<38V
50MHz	50MHz
60pF	60pF
1.0	1.0
-40°C to +80°C	-40°C to +80°C
A2, B2, C1, C2, C3, D1	A2, B2, C1, C2, C3, D1
22kA	22kA
10kA	10kA
IP20	IP20
1Arms, 5T	1Arms, 5T
80kPa - 160kPa	80kPa - 160kPa
5% - 95% RH	5% - 95% RH

Installation

Locate the TSP rail
foot over one edge
of the DIN rail

