Modular SPD for up to 3 Lines
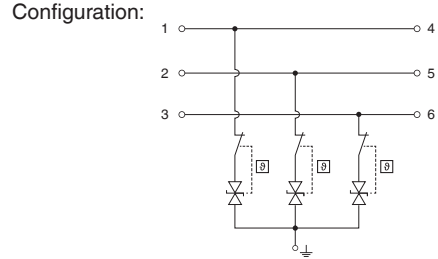# RayDat NSLL-3 LF Series
C1 • C3

IEC/EN Category: C1/C3
Voltages: 24 V DC
Frequency Range: 1 MHz
Housing: Modular Design
Compliance: IEC/EN 61643-21
UL 497B 4th Edition

Configuration:

Technical Data

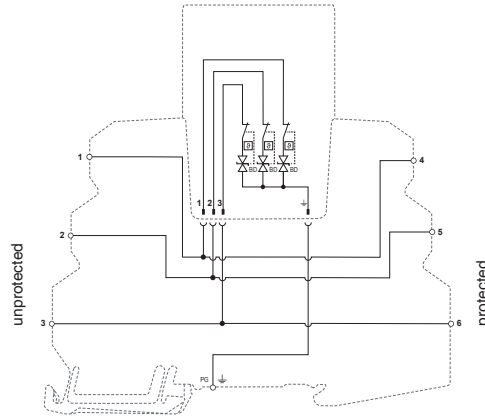| RayDat NSLL-3-xx LF Series			24
Electrical			
Lines Protected			1 (3 Conductors)
Nominal Operating Voltage (DC)		U_n	24 V
Maximum Continuous Operating Voltage (DC)		U_c	30 V
Rated Load Current at 40 °C		I_L	12 A
Rated Load Current at 70 °C		I_L	10 A
C1 Nominal Discharge Current (8/20 µs)	(Line-Line)	I_n	250 A
	(Line-Ground)		250 A
C1 Total Nominal Discharge Current (8/20 µs)		I_n	750 A
C3 Voltage Protection Level (1 kV/µs)	(Line-Line)	U_p	130 V
	(Line-Ground)		65 V
Rated Spark Overvoltage	(Line-Line)		64 V - 76 V
	(Line-Ground)		32 V - 40 V
Response Time Overvoltage Protection		t_A	< 1 ns
Thermal Protection			Yes
Insulation Resistance of the Protection	(Line-Line)	R_{iso}	> 15 MΩ
Serial Resistance per Path		R	0.1 Ω
Capacitance	(Line-Line)	C	typ. 1.5 nF
	(Line-Ground)		typ. 3 nF
Maximum Frequency		f_G	1 MHz
Mechanical			
Temperature Range			-40 °F to +176 °F [-40 °C to +80 °C]
Conductor Cross Section (max.)			12 AWG / 4 mm² (solid)
			14 AWG / 2.5 mm² (flexible)
Degree of Protection IEC/EN 60529			IP 20 (built-in)
Housing Material			Thermoplastic; Grey; Extinguishing Degree V-0
Mounting IEC/EN 60715			35 mm DIN Rail
Operating State / Fault Indication			Green Flag / Red Flag
Order Information			
Order Code			24
NSLL-3-xx LF			7088.48
NSLL-3-xxM LF (module)			7088.49

Raycap

www.raycap.com

RayDat NSLL-3 LF Series

Configuration

Legend

DB	Diode Block
GDT	Gas Discharge Tube
PG	Protective Grounding
R	Resistor

Dimensions & Packaging

4.2 [107]
3.94 [78]
4.25 [108]
.24 [6.2]
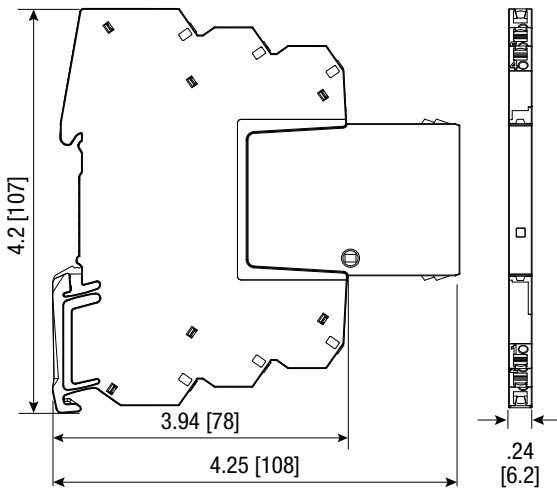
NSLL-3-xx LF Series	24
Dimensions	
Weight per Unit	1.98 oz [56 g]
Dimensions DIN 43880	.24" [6.2 mm]
Packaging Dimensions (Single Unit)	4.72 × 4.33 × 0.39" [120 × 110 × 10 mm]
Minimum Package Quantity	15 pieces

1.58 [40.2]
2.26 [57.5]
.24 [6.2]
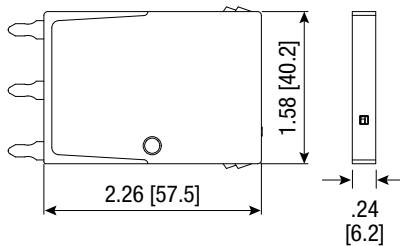
NSLL-3-xxxM LF Series	24
Dimensions	
Weight per Unit	0.56 oz [16 g]
Packaging Dimensions (Single Unit)	4.72 × 4.33 × 0.39" [120 × 110 × 10 mm]
Minimum Package Quantity	15 pieces

Monitoring Unit Transmitter & Receiver available for all product variants.

inches
[mm]

Information contained in this document is subject to change at any time without notice.

RoHS COMPLIANT ✓   CE   UL LISTED

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