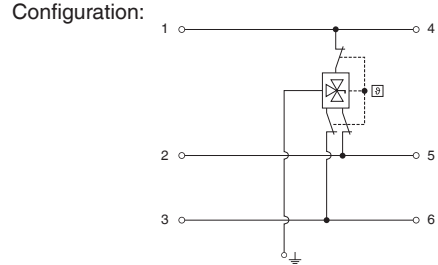


DATA SHEET

Modular SPD for up to three Lines **RayDat NSLL-3 Series** C1 • C3



IEC/EN Category: C1/C3
 Voltages: 24 V DC
 Frequency Range: 120 MHz
 Housing: Modular Design
 Compliance: IEC/EN 61643-21
 UL 497B 4th Edition



Technical Data

RayDat NSLL-3-xx Series

24

Electrical

Lines Protected		1 (3 Conductors)
Nominal Operating Voltage (DC)	U_n	24V
Maximum Continuous Operating Voltage (DC)	U_c	30V
Rated Load Current at 40 °C	I_L	12A
Rated Load Current at 70 °C	I_L	10A
C1 Nominal Discharge Current (8/20 μ s)	(Line-Line) I_n	250A
	(Line-Ground)	250A
C1 Total Nominal Discharge Current (8/20 μ s)	I_n	250A
C3 Voltage Protection Level (1 kV/ μ s)	(Line-Line) U_p	70V
	(Line-Ground)	70V
Rated Spark Overvoltage	(Line-Line)	32V - 40V
	(Line-Ground)	32V - 40V
Response Time Overvoltage Protection	t_A	< 1 ns
Thermal Protection		Yes
Insulation Resistance of the Protection	(Line-Line) R_{iso}	> 15 M Ω
Serial Resistance per Path	R	0.1 Ω
Capacitance	(Line-Line) C	typ. 25 pF
	(Line-Ground)	typ. 20 pF
Maximum Frequency	f_G	120 MHz

Mechanical

Temperature Range	-40 °F to +176 °F [-40 °C to +80 °C]
Conductor Cross Section (max.)	12 AWG / 4 mm ² (solid) 14 AWG / 2.5 mm ² (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

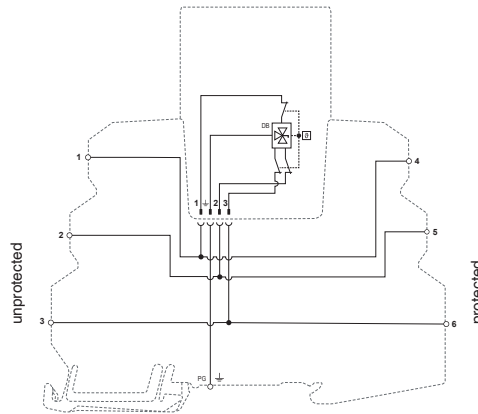
Order Code	24
NSLL-3-xx	7088.46
NSLL-3-xxM (module)	7088.47

RayDat NSLL-3 Series

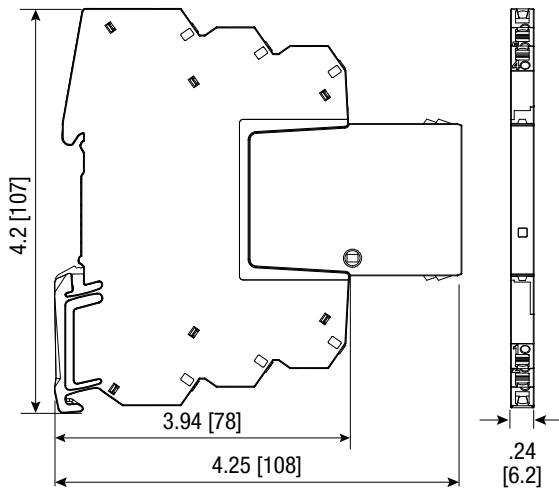
Configuration

Legend

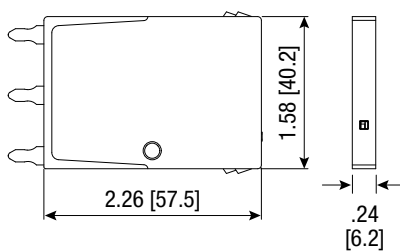
- DB Diode Block
- GDT Gas Discharge Tube
- PG Protective Grounding
- R Resistor



Dimensions & Packaging



NSLL-3-xx 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



NSLL-3-xxxM Series	24
Dimensions	
Weight per Unit	0.49 oz [14 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.

