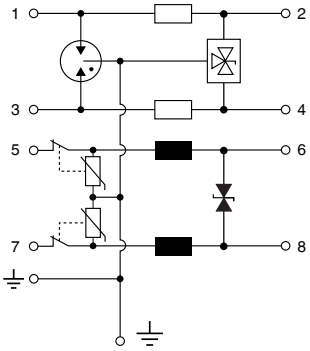
DATA SHEET

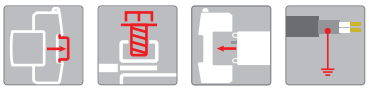
SPD for DC Power Supply & Data

RayDat SUH-2 PS

D1 • C1 • C2 • C3

IEC/EN Category: D1/C1/C2/C3
Surge Discharge Ratings: I_n: 10 kA, I_{max}: 20 kA, I_{imp}: 2.5 kA
Voltages: 24 V DC (Data Line)
24 V AC (Power Line)
Frequency Range: 30 MHz
Housing: Modular Design
Compliance: IEC/EN 61643-21
Configuration:





Technical Data

SUH-2 PS		Data Line	Power Supply Line
Electrical			
Lines Protected		2 (1 Data Line + 1 Power Supply Line)	
Nominal Operating Voltage (DC)	U_n	24 V	24 V AC/30 V DC
Maximum Continuous Operating Voltage (DC)	U_c	28 V	28 V AC/40 V DC
Rated Load Current at 25°C	I_L	1 A	3 A
C2 Nominal Discharge Current (8/20 µs)	I_n	10 kA	
Maximum Discharge Current (8/20 µs)	I_{max}	20 kA	
D1 Impulse Current (10/350 µs)	I_{imp}	2.5 kA	-
Residual Voltage at 5 kA (8/20 µs)	U_{res}	< 70 V	< 100 V
Rated Spark Overvoltage (Line-Ground)		31-37 V	90-110 V
(Line-Line)		31-37 V	42-52 V
Response Time Overvoltage Protection	t_A	< 1 ns	
Insulation Resistance of the Protection	R_{iso}	≥ 28 MΩ	≥ 40 MΩ
Serial Resistance per Path	R	1.6-2.0 Ω	<0.2 Ω
Serial Inductivity	L		15 µH
Transverse Capacitance	C	50 pF	6.0 nF
Cut-off Frequency	f_G	30 MHz	1 kHz
Mechanical			
Temperature Range		-40 °F to +176 °F [-40 °C to +80 °C]	
Terminal Cross Section Multi-strand (max.)		12 AWG [4 mm²]	
Terminal Screw Torque		4.5 lbf·in [0.5 Nm]	
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	
Order Information			
Order Code		**24**	
SUH-2-xxPS		7086.81	
SUH-2-xxPSM (module)		7086.82	

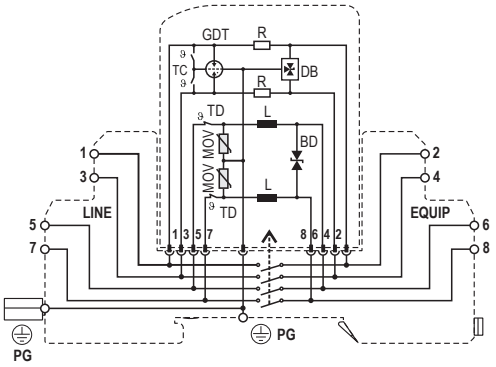
Information contained in this document is subject to change at any time without notice.

RayDat SUH-2 PS

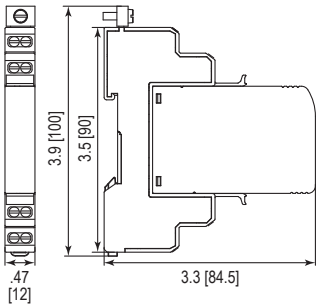
Internal Configuration

Legend

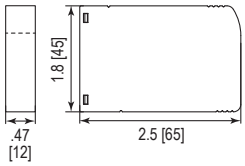
BD	*Bi-directional TVS Diode*
DB	*Diode Block*
GDT	*Gas Discharge Tube*
L	*Inductor*
MOV	*Metal Oxide Varistor*
PG	*Protective Grounding*
R	*Resistor*
TC	*Thermo-clip*
TD	*Thermal Disconnecter*



Dimensions & Packaging



SUH-2-xxPS	24
Dimensions	
Weight per Unit	2.53 oz [72 g]
Dimensions DIN 43880	2/3 TE
Packaging Dimensions (Single Unit)	3.4 × .59 × 4" [87 × 15 × 102 mm]
Minimum Package Quantity	15 pieces



SUH-2-xxPSM	24
Dimensions	
Weight per Unit	1.19 oz [34 g]
Packaging Dimensions (Single Unit)	3.4 × .59 × 4" [87 × 15 × 102 mm]
Minimum Package Quantity	15 pieces

inches
[mm]

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RoHS COMPLIANT CE

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