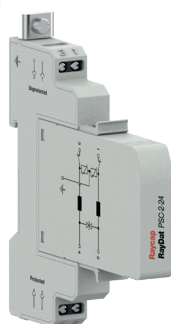


DATA SHEET

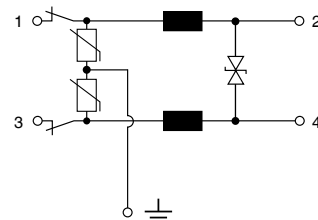
SPD for DC Power Systems with Low Residual Voltage

RayDat PSC-2 Series

C1 • C2 • C3



IEC/EN Category: C1/C2/C3
 Surge Discharge Ratings: I_n : 10 kA, I_{max} : 20 kA
 Voltages: 12, 24, 48 V DC
 Serial Inductivity: 10–14 μ H
 Housing: Modular Design
 Compliance: IEC/EN 61643-21
 Configuration:



Technical Data

PSC-2 Series

12

24

48

Electrical

Lines Protected		1 (2 Conductors)		
Nominal Operating Voltage (DC)	U_n	12V	24V	48V
Maximum Continuous Operating Voltage (DC)	U_c	15V	28V	52V
Rated Operating Current at 25 °C	I_L		4 A	
C2 Nominal Discharge Current (8/20 μ s)	I_n		10 kA	
Maximum Discharge Current (8/20 μ s)	I_{max}		20 kA	
Residual Voltage at 5 kA (8/20 μ s)	U_{res}	< 32V	< 60V	< 135V
Rated Spark Overvoltage	(1, 3-PG)	90-110V	90-110V	90-110V
	(1, 3)	16-20V	30-36V	57-69V
Response Time Overvoltage Protection	t_A		< 1 ns	
Thermal Protection		Thermal Disconnection		
Insulation Resistance of the Protection	R_{iso}	$\geq 15 M\Omega$	$\geq 28 M\Omega$	$\geq 52 M\Omega$
Serial Inductance per Path	L		10–14 μ H	
Transverse Capacitance	C	< 5nF	< 3nF	< 1.5nF

Mechanical

Temperature Range	-40 °F to +176 °F [-40 °C to +80 °C]			
Terminal Cross Section Multi-strand (max.)	12 AWG [4 mm ²]			
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

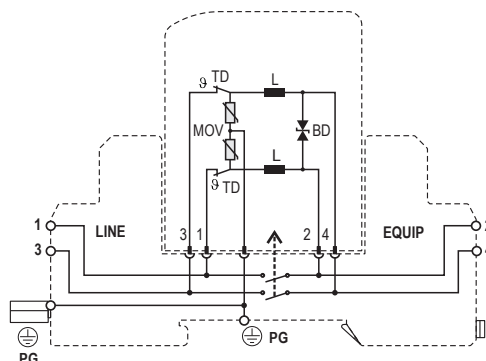
Order Code	12	24	48
PSC-2-xx	7086.83	7086.84	7086.85
PSC-2-xxM (module)	7086.86	7086.87	7086.88

RayDat PSC-2 Series

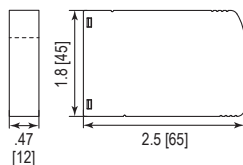
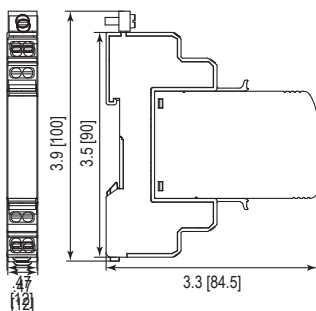
Internal Configuration

Legend

- BD Bi-Directional TVS Diode
- L Inductor
- MOV Metal Oxide Varistor
- PG Protective Ground
- TD Thermal Disconnecter



Dimensions & Packaging



PSC-2 Series

12

24

48

Dimensions

Weight per Unit 2.25 oz [64 g]

Dimensions DIN 43880 2/3 TE

Packaging Dimensions (Single Unit) 3.4 x .59 x 4" [87 x 15 x 102 mm]

Minimum Package Quantity 15 pieces

PSC-2-xxM

12

24

48

Dimensions

Weight per Unit 1.26 oz [36 g]

Packaging Dimensions (Single Unit) 3.4 x .59 x 4" [87 x 15 x 102 mm]

Minimum Package Quantity 15 pieces

inches
[mm]

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

RoHS
COMPLIANT  CE

Raycap

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