

ProTec T2 DCU 3Y**Class II • DC SPD Type 4CA**

Location of Use: DC Systems

Network Systems: Unipolar grounded / ungrounded, TN, TT*, IT*

Mode of Protection: (+)-PE/G, (-)-PE/G, (+)-(-)

IEC/UL Category: Class II, DC SPD Type 4CA

Housing: Pluggable Design

Compliance: IEC 61643-41:2025

UL 1449 5th Edition, Supplement SB

**Technical Data****ProTec T2-xxxDCU-3Y(-R)**

		90	150	250
IEC Electrical				
Nominal DC Voltage	(+)-(-) U_n	75 V	120 V	220 V
Maximum Continuous Operating Voltage (DC)	U_c	90 V	150 V	250 V
Nominal Discharge Current (8/20 μ s)	I_n	20 kA	20 kA	20 kA
Maximum Discharge Current	I_{max}	40 kA	40 kA	40 kA
Total Discharge Current (8/20 μ s)	I_{Total}	40 kA	40 kA	40 kA
Voltage Protection Level	U_p	700 V	700 V	1000 V
Overcurrent Protection (max)		125 AgBat**	125 AgBat**	125 AgBat**
Short-Circuit Current Rating (DC)	I_{SCCR}		10 kA (L/R < 3 ms)	
Response Time			<25 ns	
Overvoltage Category			III	
Number of Ports			1	

UL Electrical

Maximum Permitted DC Voltage	V_{dcmcov}	90 V	150 V	250 V
Measured Limiting Voltage	MLV	800 V	800 V	1100 V
Nominal Discharge Current (8/20 μ s)	I_n		20 kA	

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]		
Permissible Operating Humidity	RH	5%...95%		
Pollution degree		2		
Altitude (max)		6562 ft [2000 m]		
Terminal Screw Torque	M_{max}	35 lbf-in per UL 1449 [4.5 Nm]		
Conductor Cross Section (max)		6 AWG (Solid, Stranded) per UL 1449		
		35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)		
		Cu Only per UL 1449		
Mounting		35 mm DIN Rail, EN 60715		
Degree of Protection		IP 20 (built-in)		
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0		
Thermal Protection		Yes		
Operating State / Fault Indication		Green Flag / Not Green Flag		
Remote Contacts (RC)		Optional		
RC Switching Capacity		125 V / 1 A; DC: 48 V / 0.5 A, 24 V / 0.5 A, 12 V / 0.5 A		
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)		
Overvoltage Category		III		

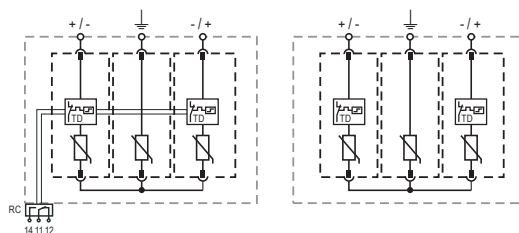
*Only for DC power systems which are electrically separated from AC power systems.

**ETI NH1 BAT 125 A/500 V DC (004723264)

Internal Configuration

Legend

	PE / G Conductor Terminal
	Remote Contacts Terminal (Optional)
	Thermal Disconnect

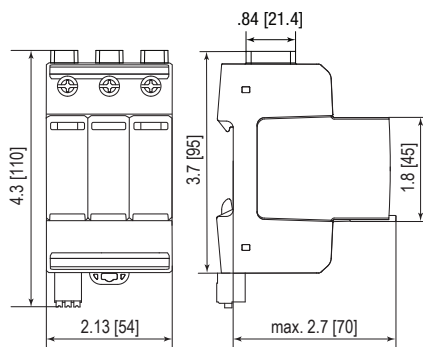


Order Information

Order Code	90	150	250
ProTec T2-xxxDCU-3Y	59.C864	59.C865	59.C866
ProTec T2-xxxDCU-3Y-R (with remote contacts)	59.C829	59.C830	59.C831
ProTec T2-45DCU-M-P (side plug)	59.C869	-	-
ProTec T2-45DCU-P (middle plug)	59.C870	-	-
ProTec T2-75DCU-M-P (side plug)	-	59.C871	-
ProTec T2-75DCU-P (middle plug)	-	59.C872	-
ProTec T2-125DCU-M-P (side plug)	-	-	59.C873
ProTec T2-125DCU-P (middle plug)	-	-	59.C874

Dimensions & Packaging

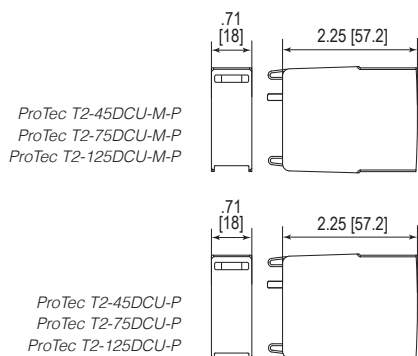
inches [mm]



Complete Unit

ProTec T2-xxxxDCU-3Y	90	150	250
Weight	pounds .672	.672	.683
	grams 305	305	310
ProTec T2-xxxDCU-3Y-R			
Weight	pounds .694	.694	.705
	grams 315	315	320
DIN 43880 Dimension	3 TE / 2.13" [54mm]		
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]		
Standard Order Quantity	5 Units		

Spare Plug



Single Unit

ProTec T2-xxxDCU-M-P	45	75	125
Weight	pounds .093	.093	.095
	grams 42	42	43
ProTec T2-xxxDCU-P	45	75	125
Weight	pounds .099	.099	.104
	grams 45	45	47
DIN 43880 Dimension	1 TE / .70" [18 mm]		
Packaging Dimensions (HxWxL)	3.2 x 4.5 x 12" [83 x 116 x 305 mm]		
Standard Order Quantity	24 Units		