

Pluggable Multi-Pole SPD
ProTec T2-ADV 2+0
 Class II • Type 2 • Type 1CA



Location of Use: Sub-Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_n = 20 \text{ kA (8/20 } \mu\text{s)}$
 $I_{max} = 50 \text{ kA (8/20 } \mu\text{s)}$
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449, 4th edition

Technical Data

ProTec T2-ADV-xxx-2+0(-R)		75	150	300	350	480
IEC Electrical						
Nominal AC Voltage (50/60Hz)	U_o / U_n	60V	120V	240V	277V	400V
Maximum Continuous Operating Voltage (AC)	U_c	75V	150V	300V	350V	480V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 μs)	I_{max}	50 kA	50 kA	50 kA	50 kA	50 kA
Voltage Protection Level	U_p	600V	1000V	1300V	1700V	2000V
Response Time	t_A	< 25ns				
Back-Up Fuse (max)		160A gG				
Short-Circuit Current Rating (AC)	I_{SCCR}	50 kA				
TOV Withstand 5s	U_T	114V	229V	337V	403V	581V
TOV 120min	U_T / mode	114V/withstand	229V/withstand	442V/safe fail	528V/safe fail	762V/safe fail
Number of Ports		1				

UL Electrical						
Maximum Continuous Operating Voltage (AC)	MCOV	75V	150V	300V	350V	480V
Voltage Protection Rating	VPR	400V	600V	900V	1200V	1500V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC)	SCCR	100 kA	200 kA	150 kA	200 kA	200 kA

Mechanical						
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]				
Permissible Operating Humidity	RH	5%...95%				
Altitude		13123 ft [4000m]				
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]				
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)				
Mounting		35 mm DIN Rail, EN 60715				
Degree of Protection		IP 20				
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		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A				
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)				

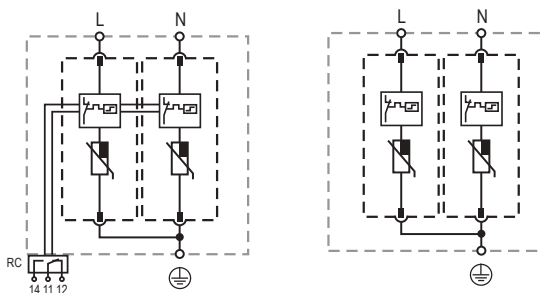
Order Information						
Order Code		75	150	300	350	480
ProTec T2-ADV-xxx-2+0		59.0347	59.0220	59.0222	59.0224	59.0226
ProTec T2-ADV-xxx-2+0-R (with remote contacts)		59.0348	59.0221	59.0223	59.0225	59.0227
ProTec T2-ADV-xxx-P		59.0202	59.0203	59.0204	59.0205	59.0206

ProTec T2-ADV 2+0

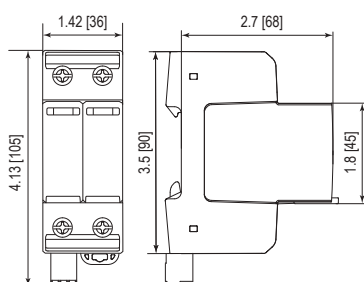
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Weights

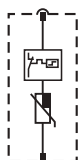


Weights

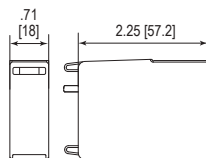
		75	150	300	350	480
ProTec T2-ADV-xxx-2+0	Single Unit Weight	pounds .524	.542	.573	.595	.617
		grams 238	246	260	270	280
ProTec T2-ADV-xxx-2+0-R	Single Unit Weight	pounds .555	.573	.590	.626	.648
		grams 252	260	268	284	294
Single Unit DIN 43880 Dimension		2 TE				
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]				
Minimum Order Quantity		7 Units				

Plug Internal Configuration

ProTec T2-ADV-xxx-P



Dimensions & Weights



Weights

		75	150	300	350	480
ProTec T2-ADV-xxx-P	Single Unit Weight	pounds .120	.127	.143	.154	.165
		grams 54	58	65	70	75
Single Unit DIN 43880 Dimension		1 TE				
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]				
Minimum Order Quantity		28 Units				

inches
[mm]

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

