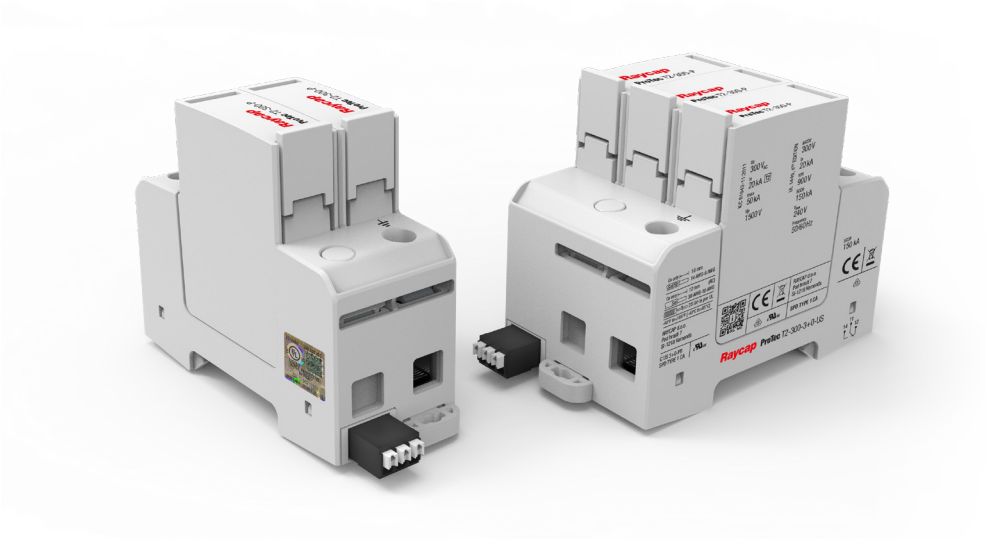
Pluggable Single Pole & Multi-pole Surge Protective Devices (SPDs)

Overvoltage Protection
ProTec T2-US

Special features:

- Available in a wide variety of operating voltages 75 V to 750 V
- High Impulse Current capability using a single MOV
- Sensitive state-of-the-art thermal disconnector
- Backup fuse up to 315 A gG
- Short-circuit current rating up to 100 kA*
- Vibration and shock withstand capability
- All modules including N-PE with operating state green-red
- Optional remote contact (RC) signaling



UL 1449 5th Edition	Open Type 1 SPD Listed	IEC 61643-11:2011	EN 61643-11:2012
✓	✓	✓	✓

ProTec T2 offers basic protection as a Type 2 surge protective device (SPD) that comes with an extended maximum continuous operationg voltage (U_c) range that spans 75 V up to 750 V. With the Type 2 classification, ProTec T2 can be installed between boundaries Ob – 1 and higher. The varistor-based protection modules feature outstanding short-circuit currents up to 100 kA* without using a back-up to a main fuse nominal current of 315 A. All modules are equipped with a state-of-the-art thermal disconnector and life-status green-red monitoring indicators. A unique vibration-proof locking mechanism enables secure use in high vibration environments. Besides the visual mechanical indicator, optional remote contacts (RC) feature a three-pole remote signaling terminal, which enables remote monitoring of the operating state of the device.

** VDE certified up to 50 kA, 100 kA additionally tested by VDE.*

RoHS COMPLIANT

DATA SHEET

Overvoltage Protection

ProTec T2 1+0-US

Type 1CA • Open Type 1 SPD Listed • Class II • Type 2

Location of Use: Sub-Distribution Boards
Network Systems: Single phase
Mode of Protection: L-PE, N-PE (only TN-S), L-PEN, L-N
UL/IEC/EN Category: Open Type 1 SPD Listed / Type 1CA
Class II / Type 2
Housing: Pluggable Design
Compliance: UL 1449 5th Edition
IEC 61643-11:2011
EN 61643-11:2012+A11:2018

Technical Data

ProTec T2-xxx-1+0-US(-R)		75	150	300	350	480	550*	750
UL Electrical								
Nominal System Voltage (AC)		60V	120V	240V	277V	400V	480V	600V
System		1	1	1	1	1	1	1
Maximum Continuous Operating Voltage (AC)	MCOV	75V	150V	300V	350V	480V	550V	750V
Voltage Protection Rating	VPR	330V	600V	900V	1000V	1500V	2000V	2500V
Nominal Discharge Current (8/20µs)	I_n	20kA	20kA	20kA	20kA	20kA	20kA	20kA
Short-Circuit Current Rating (AC)	SCCR	100kA	200kA	150kA	200kA	200kA	200kA	200kA
IEC Electrical								
Nominal AC Voltage (50/60Hz)	U_o/U_n	60V	120V	240V	277V	400V	480V	600V
Maximum Continuous Operating Voltage (AC)	U_c	75V	150V	300V	350V	480V	550V	750V
Nominal Discharge Current (8/20µs)	I_n	20kA	20kA	20kA	20kA	20kA	20kA	20kA
Maximum Discharge Current (8/20µs)	I_{max}	50kA	50kA	50kA	50kA	50kA	50kA	35kA
Voltage Protection Level	U_p	800V	1250V	1500V	1750V	2300V	2500V	3400V
Response Time	t_A	< 25ns						
Overvoltage Category		III						
Overcurrent Protection (max)		315A / 250A gG						
Short-Circuit Current Rating (AC)	I_{SCCR}	25kA / 50kA						
TOV Withstand 5s	U_T	114V	229V	337V	403V	581V	697V	871V
TOV 120min	U_T	114V	229V	442V	529V	762V	915V	1143V
	mode	Withstand	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1						
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)		13123 ft [4000 m]						
Terminal Screw Torque	M_{max}	35 lbf·in per UL 1499 [4.5 Nm]						
Conductor Cross Section (max)		6 AWG (Solid, Stranded) per UL 1449						
		35 mm² (Solid, Stranded) / 25 mm² (Flexible)						
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		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A						
RC Conductor Cross Section (max)		10 AWG (Solid, Stranded) per UL 1449 [1.5 mm² (Solid)]						
Overvoltage Category		III						

**No VDE certification.*

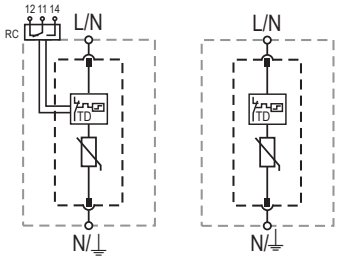
RoHS COMPLIANT

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

Internal Configuration

Legend

L	*Line Conductor Terminal*
N	*Neutral Conductor Terminal*
⏚	*PE/G Conductor Terminal*
RC	*Remote Contacts Terminal (Optional)*
TD	*Thermal Disconnector*



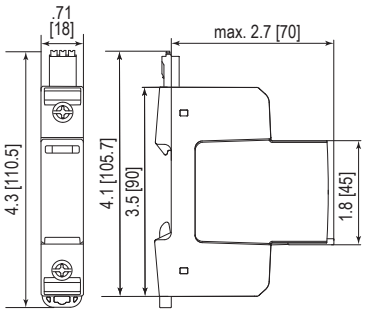
Order Information

Order Code	75	150	300	350	480	550*	750
ProTec T2-xxx-1+0-US	59.B071	59.B073	59.B075	59.B077	59.B079	59.B081	59.B083
ProTec T2-xxx-1+0-US-R (with remote contacts)	59.B072	59.B074	59.B076	59.B078	59.B080	59.B082	59.B084
ProTec T2-xxx-P (plug)	59.0063	59.0064	59.0065	59.0066	59.0067	59.0685	59.0068

**No VDE certification.*

Dimensions & Packaging

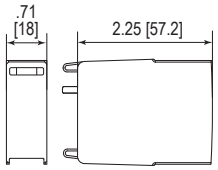
inches [mm]



Complete Unit

ProTec T2-xxx-1+0-US		75	150	300	350	480	550*	750
Weight	pounds	.259	.275	.281	.292	.306	.311	.336
	grams	118	125	128	133	139	141	153
ProTec T2-xxx-1+0-US-R								
Weight	pounds	.275	.290	.297	.308	.321	.326	.352
	grams	125	132	135	140	146	148	160
DIN 43880 Dimension		1 TE / .71" [18 mm]						
Packaging Dimensions (H x W x L)		4.3 × 4.5 × 13.8" [109 × 115 × 352 mm]						
Standard Order Quantity		12 Units						

Spare Plug



Single Unit

ProTec T2-xxx-P		75	150	300	350	480	550*	750
Weight	pounds	.108	.123	.130	.141	.154	.163	.185
	grams	49	56	59	64	70	74	84
DIN 43880 Dimension		1 TE / .71" [18 mm]						
Packaging Dimensions (H x W x L)		3.2 × 4.5 × 12" [83 × 116 × 305 mm]						
Standard Order Quantity		24 Units						

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DATA SHEET

Overvoltage Protection

ProTec T2 2+0-US

Type 1CA • Open Type 1 SPD Listed • Class II • Type 2

Location of Use: Sub-Distribution Boards
Network Systems: Single phase / Split Phase 2W+G
Mode of Protection: L-PE, N-PE
UL/IEC/EN Category: Open Type 1 SPD Listed / Type 1CA
Class II / Type 2
Housing: Pluggable Design
Compliance: UL 1449 5th Edition
IEC 61643-11:2011
EN 61643-11:2012+A11:2018

Technical Data

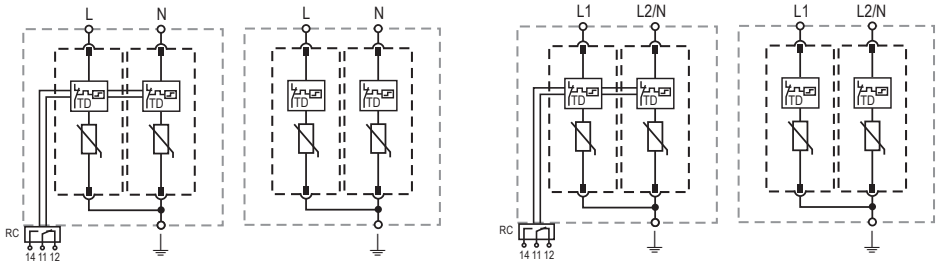
ProTec T2-xxx-2+0-US(-R)		75	150	300	350	480	550*	750
UL Electrical								
Nominal System Voltage (AC)		60V	120V	240V	277V	400V	480V	600V
		-	240V/120V	-	-	-	-	-
System		1	1	1	1	1	1	3D
		-	1S	-	-	-	-	-
Maximum Continuous Operating Voltage (AC)	MCOV	75V	150V	300V	350V	480V	550V	750V
Voltage Protection Rating	VPR	330V	600V	900V	1000V	1500V	2000V	2500V
Nominal Discharge Current (8/20µs)	I_n	20kA	20kA	20kA	20kA	20kA	20kA	20kA
Short-Circuit Current Rating (AC)	SCCR	100kA	200kA	150kA	200kA	200kA	200kA	200kA
IEC Electrical								
Nominal AC Voltage (50/60Hz)	U_o/U_n	60V	120V	240V	277V	400V	480V	600V
Maximum Continuous Operating Voltage (AC)	U_c	75V	150V	300V	350V	480V	550V	750V
Nominal Discharge Current (8/20µs)	I_n	20kA	20kA	20kA	20kA	20kA	20kA	20kA
Maximum Discharge Current (8/20µs)	I_{max}	50kA	50kA	50kA	50kA	50kA	50kA	35kA
Voltage Protection Level	U_p	800V	1250V	1500V	1750V	2300V	2500V	3400V
Response Time	t_A	< 25ns						
Overvoltage Category		III						
Overcurrent Protection (max)		315A / 250A gG						
Short-Circuit Current Rating (AC)	I_{SCCR}	25kA / 50kA						
TOV Withstand 5s	U_T	114V	229V	337V	403V	581V	697V	871V
TOV 120min	U_T	114V	229V	442V	529V	762V	915V	1143V
	mode	Withstand	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1						
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)		13123 ft [4000m]						
Terminal Screw Torque	M_{max}	35 lbf·in per UL 1499 [4.5 Nm]						
Conductor Cross Section (max)		6AWG (Solid, Stranded) per UL 1449						
		35mm² (Solid, Stranded) / 25mm² (Flexible)						
Mounting		35mm 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		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A						
RC Conductor Cross Section (max)		10AWG (Solid, Stranded) per UL 1449 [1.5mm² (Solid)]						
Overvoltage Category		III						

**No VDE certification.*

RoHS COMPLIANT

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

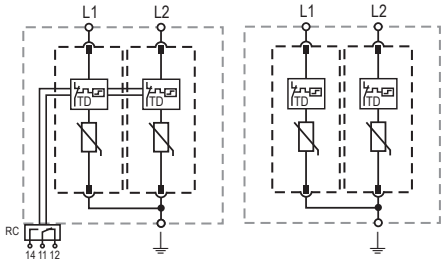
Internal Configuration



ProTec T2-150-2+0-US(-R)

Legend

L	*Line Conductor Terminal*
N	*Neutral Conductor Terminal*
⏚	*PE/G Conductor Terminal*
RC	*Remote Contacts Terminal (Optional)*
TD	*Thermal Disconnector*



ProTec T2-750-2+0-US(-R)

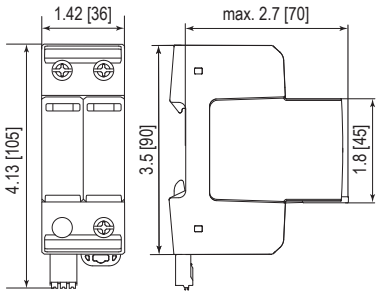
Order Information

Order Code	75	150	300	350	480	550*	750
ProTec T2-xxx-2+0-US	59.B085	59.B087	59.B089	59.B091	59.B093	59.B095	59.B097
ProTec T2-xxx-2+0-US-R (with remote contacts)	59.B086	59.B088	59.B090	59.B092	59.B094	59.B096	59.B098
ProTec T2-xxx-P (plug)	59.0063	59.0064	59.0065	59.0066	59.0067	59.0685	59.0068

**No VDE certification.*

Dimensions & Packaging

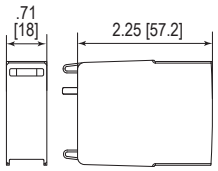
inches [mm]



Complete Unit

ProTec T2-xxx-2+0-US		75	150	300	350	480	550*	750
Weight	pounds	.505	.536	.549	.571	.598	.608	.660
	grams	229	243	249	259	271	276	299
ProTec T2-xxx-2+0-US-R								
Weight	pounds	.525	.556	.569	.591	.618	.639	.679
	grams	238	252	258	268	280	290	308
DIN 43880 Dimension		2 TE / 1.42" [36]						
Packaging Dimensions (HxWxL)		4.3 × 4.5 × 13.8" [109 × 115 × 352 mm]						
Standard Order Quantity		7 Units						

Spare Plug



Single Unit

ProTec T2-xxx-P		75	150	300	350	480	550*	750
Weight	pounds	.108	.123	.130	.141	.154	.163	.185
	grams	49	56	59	64	70	74	84
DIN 43880 Dimension		1 TE / .71" [18]						
Packaging Dimensions (HxWxL)		3.2 × 4.5 × 12" [83 × 116 × 305 mm]						
Standard Order Quantity		24 Units						

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DATA SHEET

Overvoltage Protection

ProTec T2 3+0-US

Type 1CA • Open Type 1 SPD Listed • Class II • Type 2

Location of Use: Sub-Distribution Boards
Network Systems: 3-Phase Delta / Split Phase, 3W+G
Mode of Protection: L-PEN
UL/IEC/EN Category: Open Type 1 SPD Listed / Type 1CA
Class II / Type 2
Housing: Pluggable Design
Compliance: UL 1449 5th Edition
IEC 61643-11:2011
EN 61643-11:2012+A11:2018

Technical Data

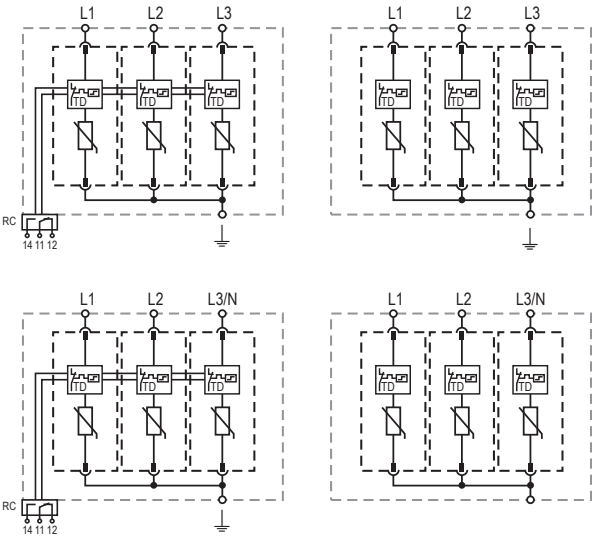
ProTec T2-xxx-3+0-US(-R)		150	300	350	480	550*	750
UL Electrical							
Nominal System Voltage (AC)		208 V / 120 V	415 V / 240 V	480 V / 277 V	690 V / 400 V	480 V	600 V
		240 V / 120 V	-	-	-	690 V / 400 V	-
System		3Y	3Y	3Y	3Y	3D	3D
		1S	-	-	-	3Y	-
Maximum Continuous Operating Voltage (AC)	MCOV	150 V	300 V	350 V	480 V	550 V	750 V
Voltage Protection Rating	VPR	600 V	900 V	1000 V	1500 V	2000 V	2500 V
Nominal Discharge Current (8/20 µs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC)	SCCR	200 kA	150 kA	200 kA	200 kA	200 kA	200 kA
IEC Electrical							
Nominal AC Voltage (50/60Hz)	U_o/U_n	120 V	240 V	277 V	400 V	480 V	600 V
Maximum Continuous Operating Voltage (AC)	U_c	150 V	300 V	350 V	480 V	550 V	750 V
Nominal Discharge Current (8/20 µs)	I_n	20 kA	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	35 kA
Voltage Protection Level	U_p	1250 V	1500 V	1750 V	2300 V	2500 V	3400 V
Response Time	t_A	< 25 ns					
Overvoltage Category		III					
Overcurrent Protection (max)		315 A / 250 A gG					
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA / 50 kA					
TOV Withstand 5s	U_T	229 V	337 V	403 V	581 V	697 V	871 V
TOV 120min	U_T	229 V	442 V	529 V	762 V	915 V	1143 V
	mode	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1					
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)		13123 ft [4000 m]					
Terminal Screw Torque	M_{max}	35 lbf·in per UL 1499 [4.5 Nm]					
Conductor Cross Section (max)		6 AWG (Solid, Stranded) per UL 1449					
		35 mm² (Solid, Stranded) / 25 mm² (Flexible)					
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		AC: 250 V / 1 A, 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)		10 AWG (Solid, Stranded) per UL 1449 [1.5 mm² (Solid)]					
Overvoltage Category		III					

**No VDE certification.*

RoHS COMPLIANT

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

Internal Configuration



ProTec T2-150-3+0-US(-R)

Legend

L	*Line Conductor Terminal*
N	*Neutral Conductor Terminal*
⏚	*PEN/G Conductor Terminal*
RC	*Remote Contacts Terminal (Optional)*
TD	*Thermal Disconnector*

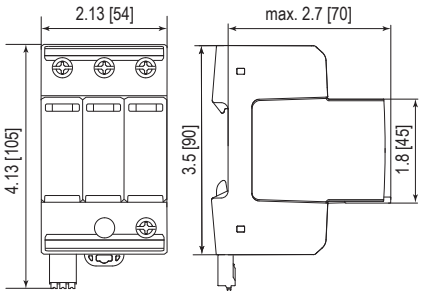
Order Information

Order Code	150	300	350	480	550*	750
ProTec T2-xxx-3+0-US	59.B099	59.B101	59.B103	59.B105	59.B107	59.B109
ProTec T2-xxx-3+0-US-R (with remote contacts)	59.B100	59.B102	59.B104	59.B106	59.B108	59.B110
ProTec T2-xxx-P (plug)	59.0064	59.0065	59.0066	59.0067	59.0685	59.0068

**No VDE certification.*

Dimensions & Packaging

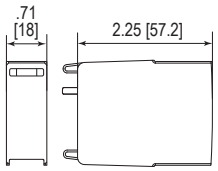
inches [mm]



Complete Unit

ProTec T2-xxx-3+0-US		150	300	350	480	550*	750
Weight	pounds	.780	.800	.833	.873	.890	.965
	grams	354	363	378	396	404	438
ProTec T2-xxx-3+0-US-R							
Weight	pounds	.800	.820	.853	.892	.913	.985
	grams	363	372	387	405	414	447
DIN 43880 Dimension		3 TE / 2.13" [54]					
Packaging Dimensions (H x W x L)		4.3 × 4.5 × 13.8" [109 × 115 × 352 mm]					
Standard Order Quantity		5 Units					

Spare Plug



Single Unit

ProTec T2-xxx-P		150	300	350	480	550*	750
Weight	pounds	.123	.130	.141	.154	.163	.185
	grams	56	59	64	70	74	84
DIN 43880 Dimension		1 TE / .71" [18]					
Packaging Dimensions (H x W x L)		3.2 × 4.5 × 12" [83 × 116 × 305 mm]					
Standard Order Quantity		24 Units					

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DATA SHEET

Overvoltage Protection

ProTec T2 4+0-US

Type 1CA • Open Type 1 SPD Listed • Class II • Type 2

Location of Use: Sub-Distribution Boards
Network Systems: 3-Phase Delta / 3-Phase WYE, 4W+G
Mode of Protection: L-PE, N-PE
UL/IEC/EN Category: Open Type 1 SPD Listed / Type 1CA
Class II / Type 2
Housing: Pluggable Design
Compliance: UL 1449 5th Edition
IEC 61643-11:2011
EN 61643-11:2012+A11:2018

Technical Data

ProTec T2-xxx-4+0-US(-R)		150	300	350	480	550*
UL Electrical						
Nominal System Voltage (AC)		208 V / 120 V	415 V / 240 V	480 V / 277 V	690 V / 400 V	690 V / 400 V
System		3Y	3Y	3Y	3Y	3Y
Maximum Continuous Operating Voltage (AC)	MCOV	150V	300V	350V	480V	550V
Voltage Protection Rating	VPR	600V	900V	1000V	1500V	2000V
Nominal Discharge Current (8/20 µs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC)	SCCR	200 kA	150 kA	200 kA	200 kA	200 kA
IEC Electrical						
Nominal AC Voltage (50/60Hz)	U_o/U_n	120V	240V	277V	400V	480V
Maximum Continuous Operating Voltage (AC)	U_c	150V	300V	350V	480V	550V
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	1250V	1500V	1750V	2300V	2500V
Response Time	t_A	< 25 ns				
Overvoltage Category		III				
Overcurrent Protection (max)		315 A / 250 A gG				
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA / 50 kA				
TOV Withstand 5s	U_T	229V	337V	403V	581V	697V
TOV 120min	U_T	229V	442V	529V	762V	915V
	mode	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1				
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)		13123 ft [4000 m]				
Terminal Screw Torque	M_{max}	35 lbf·in per UL 1499 [4.5 Nm]				
Conductor Cross Section (max)		6 AWG (Solid, Stranded) per UL 1449				
		35 mm² (Solid, Stranded) / 25 mm² (Flexible)				
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		AC: 250 V / 1 A, 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)		10 AWG (Solid, Stranded) per UL 1449 [1.5 mm² (Solid)]				
Overvoltage Category		III				

**No VDE certification.*

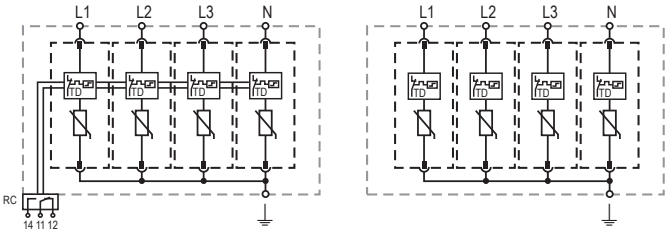
RoHS COMPLIANT

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

Internal Configuration

Legend

L	*Line Conductor Terminal*
N	*Neutral Conductor Terminal*
⏚	*PE/G Conductor Terminal*
RC	*Remote Contacts Terminal (Optional)*
TD	*Thermal Disconnector*



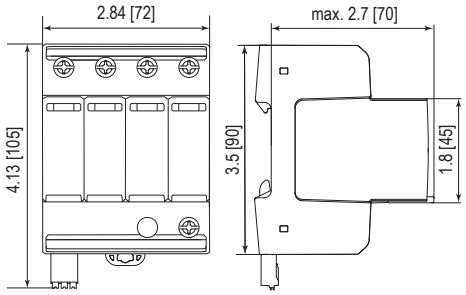
Order Information

Order Code	150	300	350	480	550*
ProTec T2-xxx-4+0-US	59.B111	59.B113	59.B115	59.B117	59.B119
ProTec T2-xxx-4+0-US-R (with remote contacts)	59.B112	59.B114	59.B116	59.B118	59.B120
ProTec T2-xxx-P (plug)	59.0064	59.0065	59.0066	59.0067	59.0685

**No VDE certification.*

Dimensions & Packaging

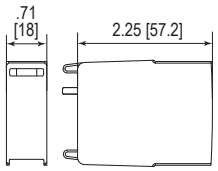
inches [mm]



Complete Unit

ProTec T2-xxx-4+0-US		150	300	350	480	550*
Weight	pounds	.989	1.015	1.059	1.112	1.208
	grams	448	460	480	504	548
ProTec T2-xxx-4+0-US-R						
Weight	pounds	1.008	1.035	1.079	1.132	1.228
	grams	457	469	489	513	557
DIN 43880 Dimension		4 TE / 2.84" [72]				
Packaging Dimensions (H x W x L)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]				
Standard Order Quantity		4 Units				

Spare Plug



Single Unit

ProTec T2-xxx-P		150	300	350	480	550*
Weight	pounds	.123	.130	.141	.154	.163
	grams	56	59	64	70	74
DIN 43880 Dimension		1 TE / .71" [18]				
Packaging Dimensions (H x W x L)		3.2 x 4.5 x 12" [83 x 116 x 305 mm]				
Standard Order Quantity		24 Units				

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DATA SHEET

Overvoltage Protection

ProTec T2 1+1-US

Type 1CA • Open Type 1 SPD Listed • Class II • Type 2

Location of Use: Sub-Distribution Boards
Network Systems: 1-Phase, 1-Split Phase, 3-Phase
Mode of Protection: L-N, N-PE
UL/IEC/EN Category: Open Type 1 SPD Listed / Type 1CA
Class II / Type 2
Compliance: UL 1449 5th Edition
IEC 61643-11:2011
EN 61643-11:2012+A11:2018

Technical Data

ProTec T2-xxx-1+1-US(-R)			75	150	300	350
UL Electrical						
Nominal System Voltage (AC)			60 V	120 V	240 V	277 V
System			1	1	1	1
Maximum Continuous Operating Voltage (AC)	(L-N)/(N-G)	MCOV	75 V / 305 V	150 V / 305 V	300 V / 305 V	350 V / 305 V
Voltage Protection Rating	(L-N)/(N-G)	VPR	330 V / 1000 V	600 V / 1000 V	900 V / 1000 V	1000 V / 1000 V
Nominal Discharge Current (8/20 µs)	(L-N)/(N-G)	I_n	20 kA / 20 kA			
Short-Circuit Current Rating (AC)	(L-N)	SCCR	100 kA	200 kA	150 kA	200 kA
IEC Electrical						
Nominal AC Voltage (50/60Hz)		U_o/U_n	60 V	120 V	240 V	277 V
Maximum Continuous Operating Voltage (AC)	(L-N)/(N-PE)	U_c	75 V / 305 V	150 V / 305 V	300 V / 305 V	350 V / 305 V
Nominal Discharge Current (8/20 µs)	(L-N)/(N-PE)	I_n	20 kA / 40 kA	20 kA / 40 kA	20 kA / 40 kA	20 kA / 40 kA
Maximum Discharge Current (8/20 µs)	(L-N)/(N-PE)	I_{max}	50 kA / 65 kA	50 kA / 65 kA	50 kA / 65 kA	50 kA / 65 kA
Voltage Protection Level	(L-N)/(N-PE)	U_p	800 V / 1500 V	1250 V / 1500V	1500 V / 1500 V	1750 V / 1500 V
Follow Current Interrupt Rating	(N-PE)	I_{fi}	100 A			
Response Time	(L-N)/(N-PE)	t_A	< 25 ns / < 100 ns			
Overvoltage Category			III			
Overcurrent Protection (max)			315 A / 250 A gG			
Short-Circuit Current Rating (AC)	(L-N)	I_{SCCR}	25 kA / 50 kA			
TOV Withstand 5s	(L-N)	U_T	114 V	229 V	337 V	403 V
TOV 120min	(L-N)	U_T	114 V	229 V	442 V	529 V
		mode	Withstand	Withstand	Safe Fail	Safe Fail
TOV Withstand 200ms	(N-PE)	U_T	1200V			
Number of Ports			1			
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)			13123 ft [4000 m]			
Terminal Screw Torque		M_{max}	35 lbf·in per UL 1499 [4.5 Nm]			
Conductor Cross Section (max)			6 AWG (Solid, Stranded) per UL 1449			
			35 mm² (Solid, Stranded) / 25 mm² (Flexible)			
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			AC: 250 V / 1A, 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)			10 AWG (Solid, Stranded) per UL 1449 [1.5 mm² (Solid)]			
Overvoltage Category			III			

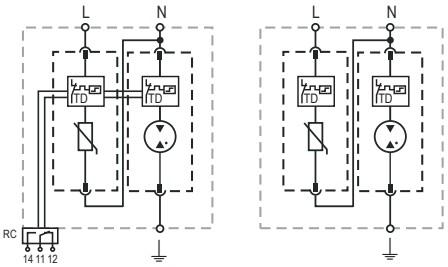
RoHS COMPLIANT

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

Internal Configuration

Legend

L	*Line Conductor Terminal*
N	*Neutral Conductor Terminal*
⏚	*PE/G Conductor Terminal*
RC	*Remote Contacts Terminal (Optional)*
TD	*Thermal Disconnector*

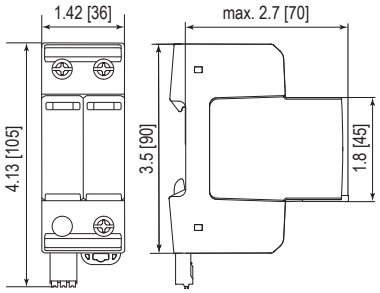


Order Information

Order Code	75	150	300	350
ProTec T2-xxx-1+1-US	59.B121	59.B123	59.B125	59.B127
ProTec T2-xxx-1+1-US-R (with remote contacts)	59.B122	59.B124	59.B126	59.B128
ProTec T2-xxx-P (plug L-N)	59.0063	59.0064	59.0065	59.0066
ProTube T2-40-P (plug N-PE)	59.0273	59.0273	59.0273	59.0273

Dimensions & Packaging

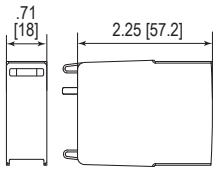
inches [mm]



Complete Unit

ProTec T2-xxx-1+1-US		**75**	**150**	**300**	**350**
Weight	pounds	.512	.527	.534	.545
	grams	232	239	242	247
ProTec T2-xxx-1+1-US-R					
Weight	pounds	.521	.536	.543	.554
	grams	236	243	246	251
DIN 43880 Dimension		2 TE / 1.42" [36]			
Packaging Dimensions (H x W x L)		4.3 × 4.5 × 13.8" [109 × 115 × 352 mm]			
Standard Order Quantity		7 Units			

Spare Plug



Single Unit

ProTec T2-xxx-P		**75**	**150**	**300**	**350**
Weight	pounds	.108	.123	.130	.141
	grams	49	56	59	64
ProTube T2-40-P			**40**		
Weight	pounds [grams]		.093 [42]		
DIN 43880 Dimension			1 TE / .71" [18]		
Packaging Dimensions (H x W x L)			3.2 × 4.5 × 12" [83 × 116 × 305 mm]		
Standard Order Quantity			24 Units		

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DATA SHEET

Overvoltage Protection

ProTec T2 3+1-US

Type 1CA • Open Type 1 SPD Listed • Class II • Type 2

Location of Use: Sub-Distribution Boards
Network Systems: 3-Phase
Mode of Protection: L-N, N-PE
UL/IEC/EN Category: Open Type 1 SPD Listed / Type 1CA
Class II / Type 2
Housing: Pluggable Design
Compliance: UL 1449 5th Edition
IEC 61643-11:2011
EN 61643-11:2012+A11:2018

Technical Data

ProTec T2-xxx-3+1-US(-R)			300	350
UL Electrical				
Nominal System Voltage (AC)			415 V / 240 V	480 V / 277 V
System			3Y	3Y
Maximum Continuous Operating Voltage (AC)	(L-N)/(N-G)	MCOV	300 V / 305 V	350 V / 305 V
Voltage Protection Rating	(L-N)/(N-G)	VPR	900 V / 1000 V	1000 V / 1000 V
Nominal Discharge Current (8/20 µs)	(L-N)/(N-G)	I_n	20 kA / 20 kA	
Short-Circuit Current Rating (AC)	(L-N)	SCCR	150 kA	200 kA
IEC Electrical				
Nominal AC Voltage (50/60Hz)		U_o/U_n	240 V	277 V
Maximum Continuous Operating Voltage (AC)	(L-N)/(N-PE)	U_c	300 V / 305 V	350 V / 305 V
Nominal Discharge Current (8/20 µs)	(L-N)/(N-PE)	I_n	20 kA / 40 kA	20 kA / 40 kA
Maximum Discharge Current (8/20 µs)	(L-N)/(N-PE)	I_{max}	50 kA / 65 kA	50 kA / 65 kA
Voltage Protection Level	(L-N)/(N-PE)	$U_{p.}$	1500 V / 1500 V	1750 V / 1500 V
Follow Current Interrupt Rating	(N-PE)	I_{fi}	100 A	
Response Time	(L-N)/(N-PE)	t_A	< 25 ns / < 100 ns	
Overvoltage Category			III	
Overcurrent Protection (max)			315 A / 250 A gG	
Short-Circuit Current Rating (AC)	(L-N)	I_{SCCR}	25 kA / 50 kA	
TOV Withstand 5s	(L-N)	U_T	337 V	403 V
TOV 120min	(L-N)	U_T	442 V	529 V
		mode	Safe Fail	Safe Fail
TOV Withstand 200ms	(N-PE)	U_T	1200V	
Number of Ports			1	
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)			13123 ft [4000 m]	
Terminal Screw Torque		M_{max}	35 lbf·in per UL 1499 [4.5 Nm]	
Conductor Cross Section (max)			6 AWG (Solid, Stranded) per UL 1449	
			35 mm² (Solid, Stranded) / 25 mm² (Flexible)	
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			AC: 250 V / 1 A, 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)			10 AWG (Solid, Stranded) per UL 1449 [1.5 mm² (Solid)]	
Overvoltage Category			III	

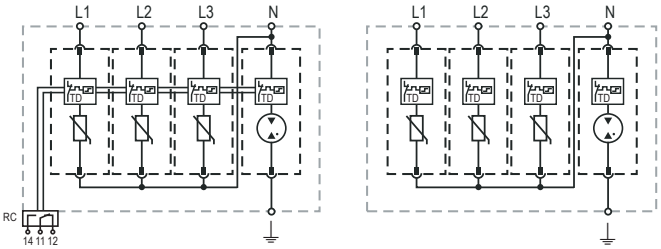
RoHS COMPLIANT

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

Internal Configuration

Legend

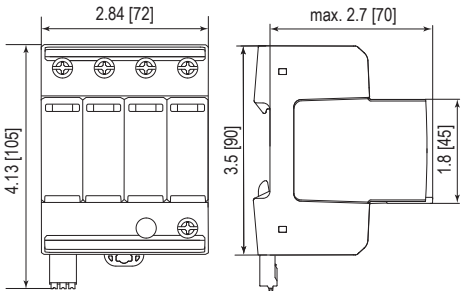
L	*Line Conductor Terminal*
N	*Neutral Conductor Terminal*
⏚	*PE/G Conductor Terminal*
RC	*Remote Contacts Terminal (Optional)*
TD	*Thermal Disconnector*



Order Information		
Order Code	**300**	**350**
ProTec T2-xxx-3+1-US	59.B129	59.B131
ProTec T2-xxx-3+1-US-R (with remote contacts)	59.B130	59.B132
ProTec T2-xxx-P (plug L-N)	59.0065	59.0066
ProTube T2-40-P (plug N-PE)	59.0273	59.0273

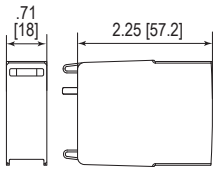
Dimensions & Packaging

inches [mm]



Complete Unit			
ProTec T2-xxx-3+1-US		**300**	**350**
Weight	pounds [grams]	1.000 [453]	1.033 [468]
ProTec T2-xxx-3+1-US-R			
Weight	pounds [grams]	1.011 [458]	1.044 [473]
DIN 43880 Dimension		4 TE / 2.84" [72]	
Packaging Dimensions (H x W x L)		4.3 × 4.5 × 13.8" [109 × 115 × 352 mm]	
Standard Order Quantity		4 Units	

Spare Plug



Single Unit			
ProTec T2-xxx-P		**300**	**350**
Weight	pounds [grams]	.130 [59]	.141 [64]
ProTube T2-40-P		**40**	
Weight	pounds [grams]	.093 [42]	
DIN 43880 Dimension		1 TE / .71" [18]	
Packaging Dimensions (H x W x L)		3.2 × 4.5 × 12" [83 × 116 × 305 mm]	
Standard Order Quantity		24 Units	

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DATA SHEET

Overvoltage Protection

ProTube T2 40 0+1-US

Type 1CA • Open Type 1 SPD Listed • Class II • Type 2

Location of Use: Sub-Distribution Boards
Network Systems: Single phase
Mode of Protection: N-PE
UL/IEC/EN Category: Open Type 1 SPD Listed / Type 1CA
Class II / Type 2
Housing: Pluggable Design
Compliance: UL 1449 5th Edition
IEC 61643-11:2011
EN 61643-11:2012+A11:2018

Technical Data

ProTube T2-xxx-0+1-US(-R)		40
UL Electrical		
Nominal System Voltage (AC)		0V
System		1
Maximum Continuous Operating Voltage (AC)	MCOV	305V
Voltage Protection Rating	VPR	1000V
Nominal Discharge Current (8/20µs)	I_n	20kA
IEC Electrical		
Maximum Continuous Operating Voltage	U_c	305V
Nominal Discharge Current (8/20µs)	I_n	40kA
Maximum Discharge Current (8/20µs)	I_{max}	65kA
Voltage Protection Level	U_p	1500V
Follow Current Interrupt Rating	I_{fi}	100A
Response Time	t_A	< 100ns
Overvoltage Category		III
TOV Withstand 200ms	U_T	1200V
Number of Ports		1
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)		13123 ft [4000m]
Terminal Screw Torque	M_{max}	35 lbf·in per UL 1499 [4.5 Nm]
Conductor Cross Section (max)		6AWG (Solid, Stranded) per UL 1449
		35mm² (Solid, Stranded) / 25mm² (Flexible)
Mounting		35mm 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		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		10AWG (Solid, Stranded) per UL 1449 [1.5mm² (Solid)]
Overvoltage Category		III

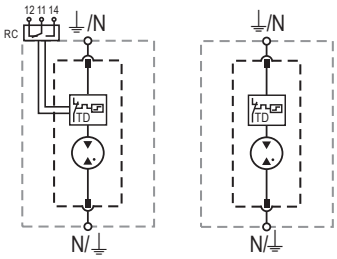
RoHS COMPLIANT

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

Internal Configuration

Legend

N	*Neutral Conductor Terminal*
⏚	*PE/G Conductor Terminal*
RC	*Remote Contacts Terminal (Optional)*
TD	*Thermal Disconnector*

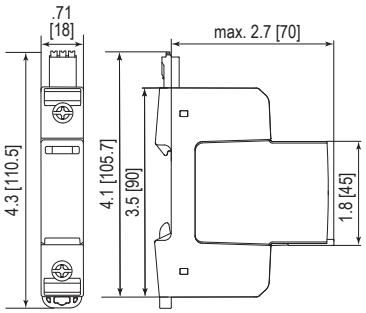


ProTube T2-xxx-0+1-US(-R)

Order Information	
Order Code	**40**
ProTube T2-xxx-0+1-US	59.B133
ProTube T2-xxx-0+1-US-R (with remote contacts)	59.B134
ProTube T2-40-P (plug)	59.0273

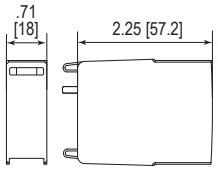
Dimensions & Packaging

inches [mm]



Complete Unit		
ProTube T2-xxx-0+1-US		**40**
Weight	pounds [grams]	.244 [11]
ProTube T2-xxx-0+1-US-R		
Weight	pounds [grams]	.259 [118]
DIN 43880 Dimension		1 TE / .71" [18]
Packaging Dimensions (H x W x L)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Standard Order Quantity		12 Units

Spare Plug



Single Unit		
ProTube T2-40-P		**40**
Weight	pounds [grams]	.093 [42]
DIN 43880 Dimension		1 TE / .71" [18]
Packaging Dimensions (H x W x L)		3.2 x 4.5 x 12" [83 x 116 x 305 mm]
Standard Order Quantity		24 Units

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