

Protective Device (SPD) for Motorized Window Shades

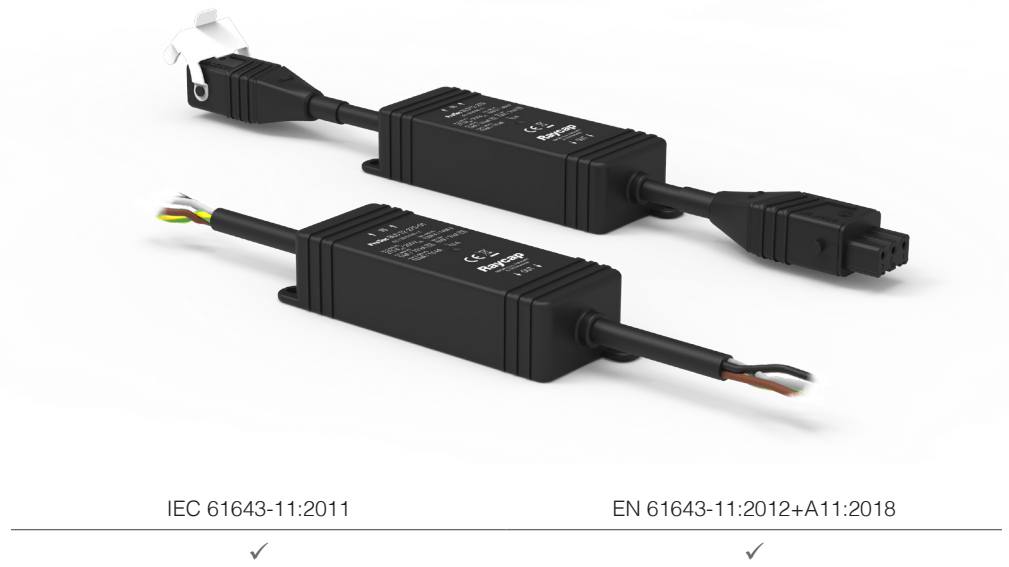


Lightning and Overvoltage Protection

ProTec BLD T2

Special features:

- Protects the motor in both directions (blinds up, blinds down)
- Dedicated small format easily installed into existing blinds mechanisms
- Uses industry standard STAK3/STAS3 connectors for fast and easy installation
- Acoustic fault indication upon failure
- Type 2 / Type 3 protection



Motorized window shades are common in many commercial and residential buildings. When combined with timers and light sensors, motorized shades will automatically open as the sun rises and close as the sun sets. Like everything else in the “smart home”, these sensitive electronics and motors must be protected from power overvoltage. Centrally controlled automated blinds have a safety feature that enables them to retract in a high wind weather emergency. ProTec T2 BLD is designed to fail in such a way that still allows the emergency retraction of the blinds. However, a failed SPD will not allow the blinds to lower, giving users an additional indication that the blinds require attention. Raycap’s ProTec BLD T2-275 SPD reduces the risk of replacing or repairing motorized blinds.



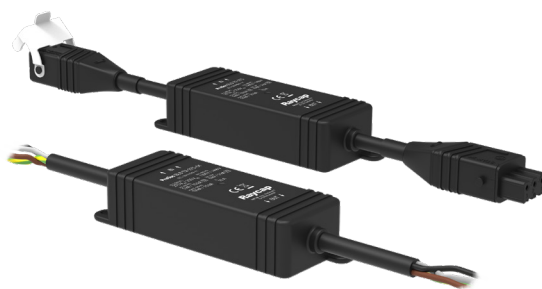
More Product Information



Compact SPD for Motorized Window Shades

ProTec BLD T2-275(-01)

Class II • Type 2 • Class III • Type 3



Location of Use: Motorized Window Shades
 Network Systems: TN-S, TT
 Mode of Protection: L - N, N - PE
 IEC/EN Category: Class II+III / Type 2+3
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012+A11:2018

Technical Data

ProTec BLD T2-275(-01)

275

IEC Electrical

Nominal AC Voltage (50/60 Hz)	U_o	230 V
Maximum Continuous Operating Voltage (AC)	(L - N)/(N - PE) U_c	275 V / 255 V
Nominal Discharge Current (8/20 μ s)	(L - N)/(N - PE) I_n	5 kA / 10 kA
Maximum Discharge Current (8/20 μ s)	(L - N)/(N - PE) I_{max}	10 kA / 10 kA
Open Circuit Voltage of the Combination Wave Generator (1.2/50 μ s)	(L - N)/(N - PE) U_{oc}	6 kV / 6 kV
Short-Circuit Current of the Combination Wave Generator (8/20 μ s)	(L - N)/(N - PE) I_{cw}	3 kA / 3 kA
Total Discharge Current (8/20 μ s)	I_{Total}	15 kA
Voltage Protection Level	(L - N)/(N - PE) U_p	1.3 kV / 1.4 kV
Follow Current Interrupt Rating	(N - PE) I_{fi}	100 A
Maximum Load Current	I_L	10 A
Response Time	(L - N)/(N - PE) t_A	< 25 ns / < 100 ns
Overvoltage Category		III
Maximum Backup fuse, if required		MCB/B 10 A
Short-Circuit Current Rating (AC)	I_{SCCR}	1.5 kA
TOV Withstand 5 s	(L - N) U_T	335 V
TOV Safe Fail 120 min	(L - N) U_T	442 V
TOV Withstand 200 ms	(N - PE) U_T	1200 V / 300 A
Number of Ports		1

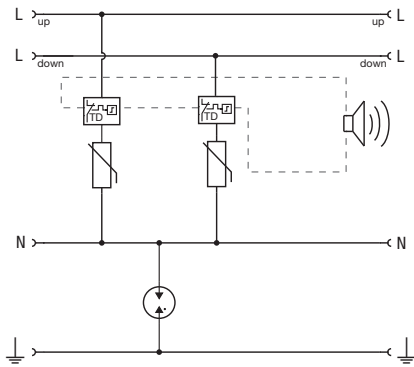
Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Humidity	RH	5%...95%
Altitude		13123 ft [4000 m]
Pollution Degree		2
Connector		Hirschmann STAK 3 / STAS 3
Degree of Protection		IP 54
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Fault Indication		Acoustic Fault Indication

Internal Configuration

Legend

- L Line Conductor
- N Neutral Conductor
- PE Conductor Terminal
- TD Thermal Disconnect Fuse



ProTec BLD T2-275(-01)

Order Information

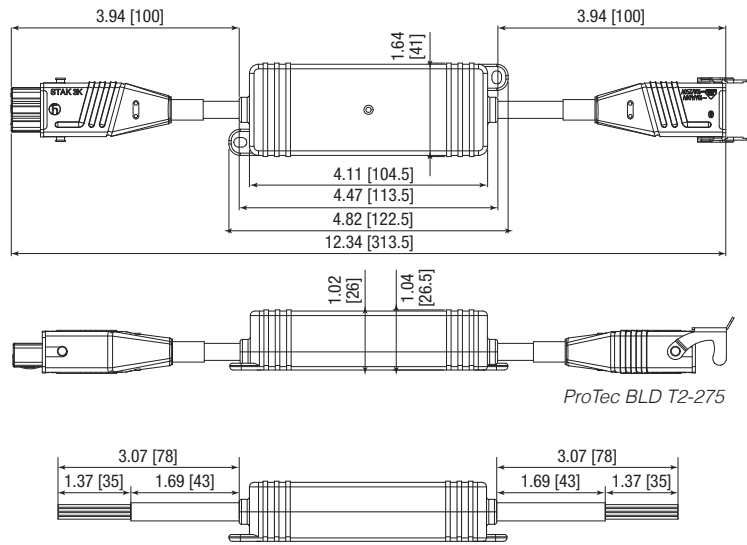
Order Code	275
ProTec BLD T2-275 (with connectors)	515 644
ProTec BLD T2-275-01 (without connectors)	515 A32

Dimensions & Packaging

inches [mm]

Complete Unit

ProTec BLD T2-275	275
Weight	pounds [grams]
	.441 [200]
ProTec BLD T2-275-01	
Weight	pounds [grams]
	.265 [120]
Packaging Dimensions (H x W x L)	1.8 x 2 x 13.2" [30 x 50 x 335 mm]
Minimum Order Quantity	1 Unit



ProTec BLD T2-275

ProTec BLD T2-275-01

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