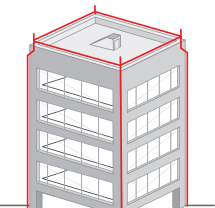
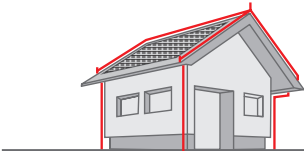
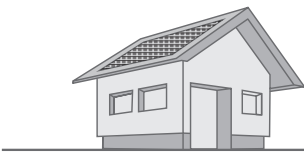
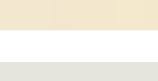
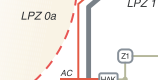


Selection Guide for Suitable Lightning and Surge Protection Devices in Residential and Commercial Buildings

Applications		Main Distribution Installation				Sub-distribution Installation		End-device Installs				
Lightning Protection Level I and II Building		Main Distribution Source or System Power Source				Distance to Main Distribution >10m		Distance to Main or Sub-distribution >10m				
Building Type		TYPE 1+2		ProTec T1S-275-3+1 59.0748		TN-S/TT		ProTec T2-300-3+1 59.0121	TN-S/TT		ProLED 275 (3+1)16A 130 304	TN-S/TT
			ProTec T1S-275-3+1-R* 59.0749	ProTec T2-300-3+1-R* 59.0122								
	TYPE 1+2		ProTec T1S-275-3+0 59.0742		TN-C		ProTec T2-300-3+0 59.0093	TN-C		ProLED 275 (3+1)16A 130 304	TN-S/TT	
			ProTec T1S-275-3+0-R* 59.0743				ProTec T2-300-3+0-R* 59.0094					
Building Type	Lightning Protection Level III and IV Building	TYPE 1+2		ProTec T1H-300-3+1 59.0320		TN-S/TT		ProTec T1-300-3+1 59.0059	TN-S/TT		ProTec T1-300-3+1-R* 59.0060	TN-S/TT
			ProTec T1H-300-3+1-R* 59.0321	ProTec T1-300-3+1-R* 59.0060								
	TYPE 1+2		ProTec T1H-300-3+0 59.0314		TN-C		ProTec T1-300-3+0 59.0031	TN-C		ProTec T1-300-3+0-R* 59.0032	TN-C	
			ProTec T1H-300-3+0-R* 59.0315				ProTec T1-300-3+0-R* 59.0032					
Building Type	Building with Overhead Line Feed	TYPE 1+2		ProTec T1H-300-3+1 59.0320		TN-S/TT		ProTec T1-300-3+1 59.0059	TN-S/TT		ProTec T1-300-3+1-R* 59.0060	TN-S/TT
			ProTec T1H-300-3+1-R* 59.0321	ProTec T1-300-3+1-R* 59.0060								
	TYPE 1+2		ProTec T1H-300-3+0 59.0314		TN-C		ProTec T1-300-3+0 59.0031	TN-C		ProTec T1-300-3+0-R* 59.0032	TN-C	
			ProTec T1H-300-3+0-R* 59.0315				ProTec T1-300-3+0-R* 59.0032					
Building Type	Building with no External Lightning Protection	TYPE 1+2		ProTec T1H-300-3+0 59.0314		TN-C		ProTec T2-300-3+1 59.0121	TN-S/TT		ProTec T2-300-3+1-R* 59.0122	TN-S/TT
			ProTec T1H-300-3+0-R* 59.0315	ProTec T2-300-3+1-R* 59.0122								
	TYPE 2		ProTec T2-300-3+0 59.0093		TN-C		ProTec T2-300-3+0 59.0093	TN-C		ProTec T2-300-3+0-R* 59.0094	TN-C	
			ProTec T2-300-3+0-R* 59.0094				ProTec T2-300-3+0-R* 59.0094					
										Note: Install as close as possible to protected terminal / end-device		



Selection Guide for Suitable Lightning and Surge Protection Devices in Residential and Commercial Buildings

Applications		AC Side		DC Side	
Buildings with Photovoltaic Systems	Building with External Lightning Protection	TYPE 1+2		TYPE 1	
		 ProTec T1H-300-3+1 59.0320  ProTec T1H-300-3+1-R* 59.0321  ProTec T1H-300-3+0 59.0314  ProTec T1H-300-3+0-R* 59.0315		 ProTec T1-1100PV-3+0 59.0285  ProTec T1-1100PV-3+0-R* 59.0286  ProTec T1-1500PV-3+0-S 59.0917  ProTec T1-1500PV-3+0-S-R* 59.0916	
	Building with no External Lightning Protection	TYPE 2		TYPE 2	
		 ProTec T2-300-3+1 59.0121  ProTec T2-300-3+1-R* 59.0122  ProTec T2-300-3+0 59.0093  ProTec T2-300-3+0-R* 59.0094		 ProTec T2-1100PV-3+0 59.0292  ProTec T2-1100PV-3+0-R* 59.0293  ProTec T2-1500PV-3+0 59.0295  ProTec T2-1500PV-3+0-R* 59.0296	
				Complete Solution	
				 ProTec T1-1100PV-3Y-2MC-Box 515 657 (1xMPP)  ProTec T1-1100PV-5Y-2MC-Box 515 658 (2xMPP)  ProTec T1-1500PV-3Y-S-2MC-Box 515 659 (1xMPP)  ProTec T1-1500PV-5Y-S-2MC-Box 515 660 (2xMPP)	
				 ProTec T2-1100PV-3Y-L-2MC-Box 515 654 (1xMPP)  ProTec T2-1100PV-5Y-L-2MC-Box 515 653 (2xMPP)  ProTec T2-1500PV-3Y-L-2MC-Box 515 656 (1xMPP)  ProTec T2-1500PV-5Y-L-2MC-Box 515 655 (2xMPP)	

Applications		Holistic Protection Products	
Additional Surge Protection Devices for Buildings	Telephone	RayTel 20 124 152	Signal Protection
	Data Interfaces	RayDat NET 6 POE 706 312	ADSL , ADSL2, ADSL2+, VDSL, VDSL2
	TV	RayCox IEC 48 125 093	Power Over Ethernet (PoE) Cat 6 Connection
	Satellite Antenna (SAT)	RayCox F 48 125 094	TV and Cable TV Connections (CATV)
	Smart Home	RayDat KNX 127 649	SAT Antenna with F Connector
	Motorized Window Shades	ProTec BLD T2-275 515 644	SPD with Terminal Connection for KNX/EIB Systems
		Protects the Motor of Windows Shades	

