

Overhead Power Lines Surge Protective Devices SPDs

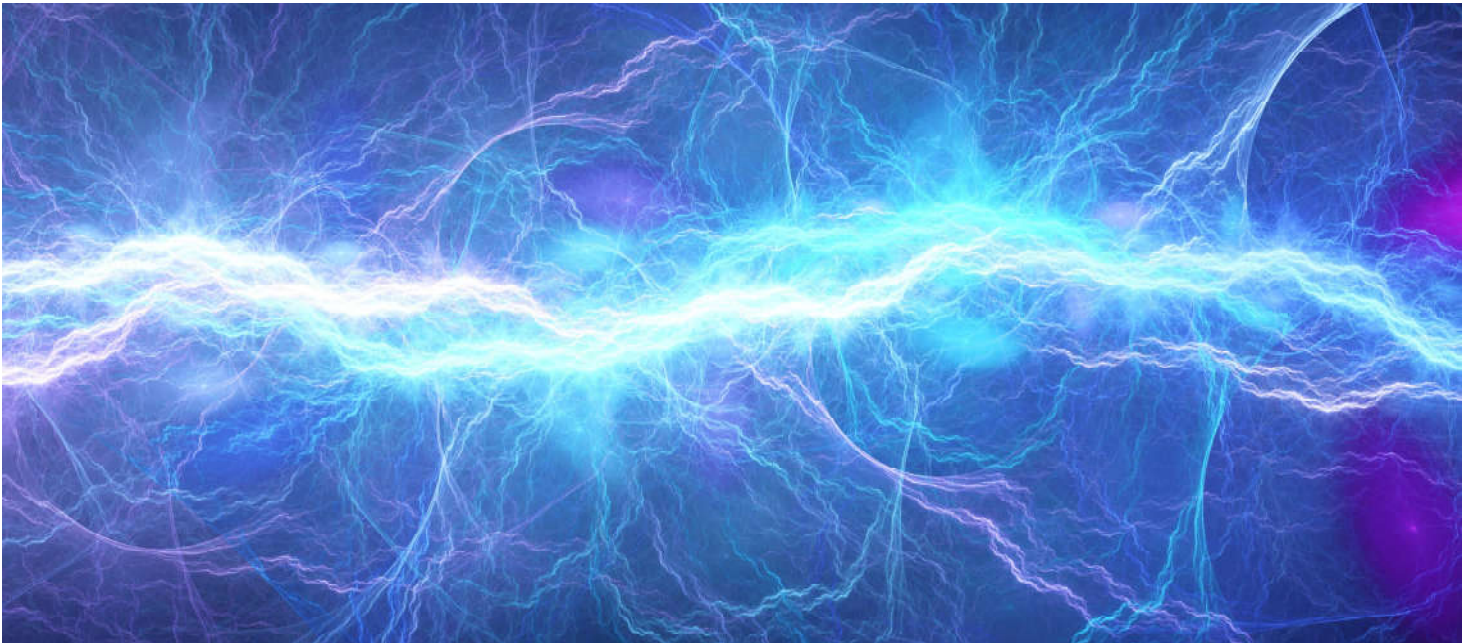


ProTec AQS

The ProTec AQS series of overvoltage surge protective devices has been developed to protect against indirect lightning discharges on overhead power lines. The Class II SPD consists of a high performance varistor with disconnection device which protects against short circuit conditions.

The ProTec AQS series comply with IEC/EN 61643-12 standards and features a silicon jacket for greater hermetic sealing properties.

ProTec AQS 40



Compact Single Pole SPD
ProTec AQS 40 Series
 Class II • Type 2



Location of Use: Overhead Power Lines
 Network Systems: TN, TT (only L-PE)
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 $I_{max} = 40 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class II / Type 2
 Protective Elements: High Energy MOV
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

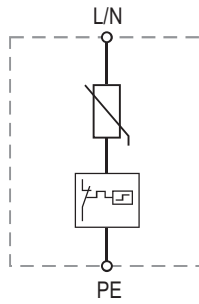
ProTec AQS 40/xxx		150	275	320	440
Electrical					
Nominal AC Voltage (50/60 Hz)	U_o	120V	230V	230V	440V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V	320V	440V
Nominal Discharge Current (8/20 μs)	I_n	20 kA			
Maximum Discharge Current (8/20 μs)	I_{max}	40 kA			
Voltage Protection Level	U_p	< 0.9kV	< 1.38kV	< 1.4kV	< 2.0kV
Response Time	t_A	< 25ns			
TOV Withstand 5s	U_T	216V	393V	393V	682V
Number of Ports		1			
Mechanical & Environmental					
Temperature Range	T_a	-40 °C to +85 °C			
Permissible Humidity	RH	5%...95%			
Connection Screw Torque	M_{max}	3.5Nm			
Connection Thread	(L/N)	M8			
Conductor Cross Section (max)	(PE)	6 mm ² (stranded)			
Mounting		Connection Accessories			
Degree of Protection		up to IP 67			
Housing Material		Silicon			
Thermal Protection		Yes			
Fault Indication		Disconnected Cable			
Order Information					
Order Code		150	275	320	440
PROTEC AQS 40/xxx		509.210	509.211	509.212	509.213

ProTec AQS 40 Series

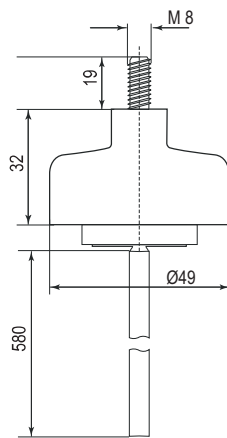
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth



Dimensions & Packaging [mm]



Dimensions & Packaging

ProTec AQS 40/xxx	150	275	320	440
Single Unit Weight	122 g	126 g	130 g	134 g
Packaging Dimensions (H × W × L)	390 × 380 × 280 mm			
Minimum Order Quantity	100 Units			