

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

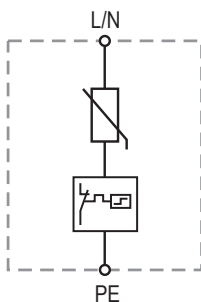
ProTec AQS 40/xxx		150	275	320	440
Electrical					
Nominal AC Voltage (50/60 Hz)	U_o	120V	230V	230V	440V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V	320V	440V
Nominal Discharge Current (8/20 μs)	I_n	20 kA			
Maximum Discharge Current (8/20 μs)	I_{max}	40 kA			
Voltage Protection Level	U_p	< 0.9kV	< 1.3kV	< 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 °F to +185 °F [-40 °C to +85 °C]			
Permissible Humidity	RH	5%...95%			
Connection Screw Torque	M_{max}	30.9 lbf-in [3.5 Nm]			
Connection Thread	(L/N)	M8			
Conductor Cross Section (max)	(PE)	6 mm ² (Solid, Stranded) / 10 AWG (Solid, Stranded)			
Mounting		Connection Accessories			
Degree of Protection		up to IP 67 (built-in)			
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

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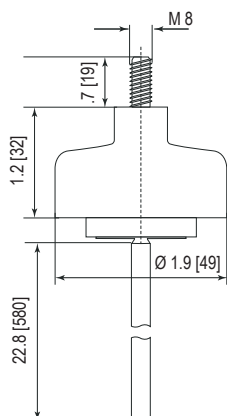
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth



Dimensions & Packaging



Dimensions & Packaging

ProTec AQS 40/xxx		150	275	320	440
Single Unit Weight	pounds	.246	.277	.286	.295
	grams	122	126	130	134
Packaging Dimensions (H x W x L)		15.3 x 14.9 x 11" [390 x 380 x 280 mm]			
Minimum Order Quantity		100 Units			

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

