



ASPD40-220

Datasheet

Aiming to create better and safer working environments and life experiences through the products we deliver.



AVCOMM Technologies, Inc

www.avcomm.us

Email: info@avcomm.us

Phone: (713) 933-4534

Address: 333 West Loop North, Suite 460
Houston, TX 77024
United States

Power Supply Module Surge Protector

The ASPD40-220 consists of two varistor-based power supply modules and one base, each designed for the second-level protection of L/N-PE. These modules feature functions like anti-reverse insertion and anti-misinsertion. The surge protector includes overheat protection, failure indication, and a centralized remote alarm dry contact, allowing remote monitoring of module installation reliability and module operational status.



Ordering Information

Model Name	Description
ASPD40-220	Protection Mode: L/N-PE , Maximum Continuous Operating Voltage : 385V at 50/60Hz, Nominal Discharge Current : 20kA, Maximum Discharge Current I _{max} : 40kA, Voltage Protection Level : 1.8 kV , IP20
ASPD40-220_r	Protection Mode: L/N-PE , Maximum Continuous Operating Voltage : 385V at 50/60Hz, Nominal Discharge Current : 20kA, Maximum Discharge Current I _{max} : 40kA, Voltage Protection Level : 1.8 kV , IP20, Remote Signaling Function.



Specifications

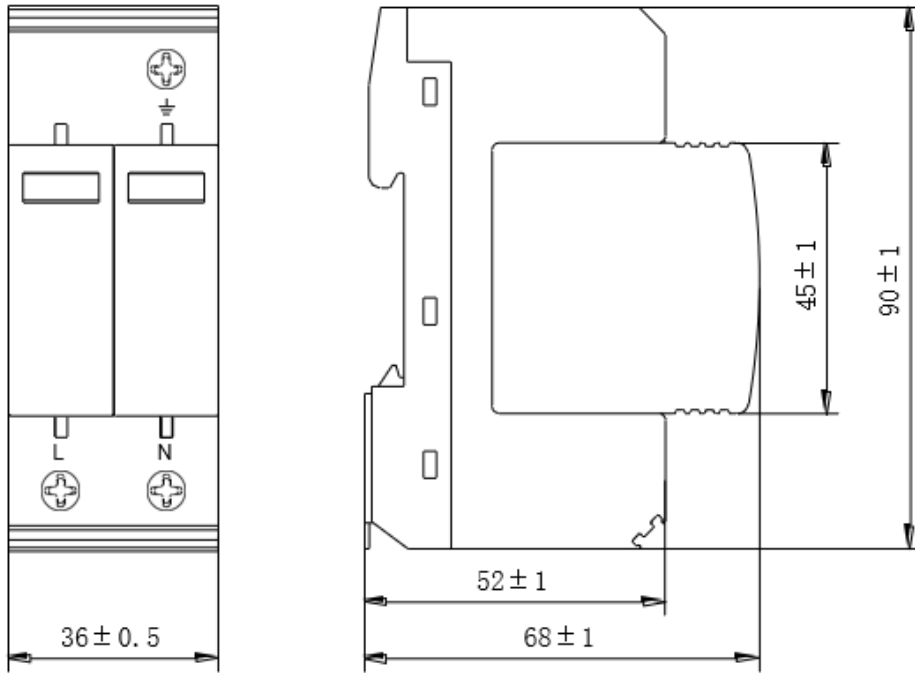
Technology	
Nominal Discharge Current I_n (8/20μs)	20kA
Maximum Discharge Current I_{max} (8/20μs)	40kA
Maximum Continuous Operating Voltage U_c	385V 50/60Hz
Protection Mode	L/N-PE
Voltage Protection Level U_p	1.8kV
Response Time t_A	≤25ns
Maximum Backup Fuse	125A gL/gG
Remote Signaling Alarm Contact Strength	AC: 250V/0.5A 125V/2A DC: 30V/2A
Torque: Terminal/Remote Signaling Interface	2.5/0.25Nm
Application System	ATMS

Mechanical	
Installation	35mm Standard DIN-Rail
Material	PBT V-0
Dimension	ASPD40-220: 36mm×68mm×90mm ASPD40-220_r: 36mm×68mm×100mm
Ingress Protection	IP20
Weight	ASPD40-220: (231±11)g ASPD40-220_r: 240±5g
Environmental	
Operating Temperature & Humidity	-40°C ~ 80°C, ≤95% (25°C)
Altitude	70kPa ~ 106kPa
Warranty	3 years

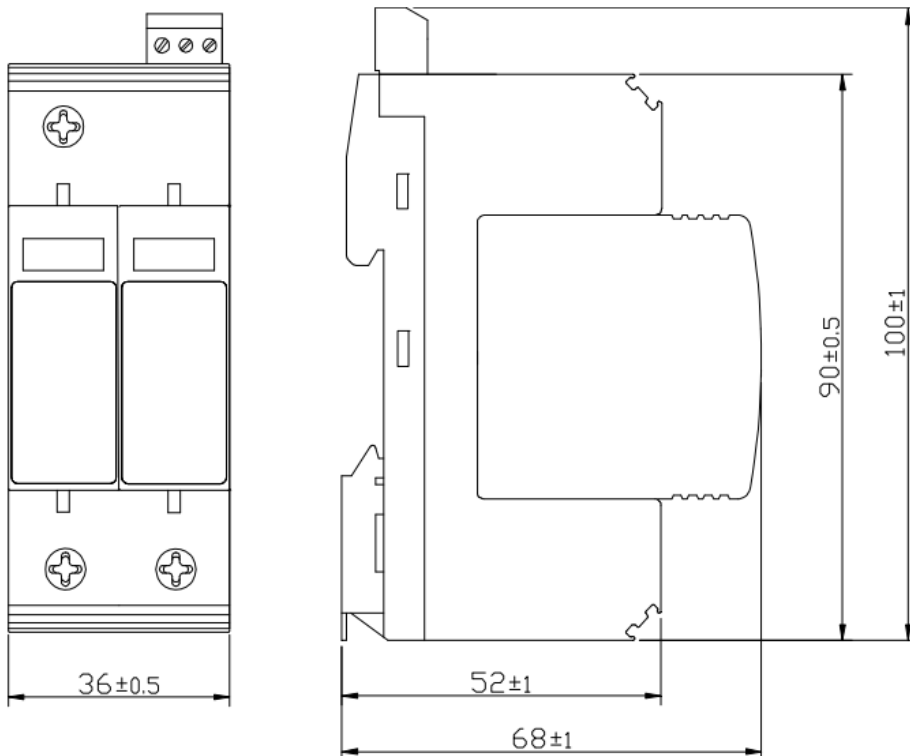
Installation dimensions

Unit: mm

ASPD40-220

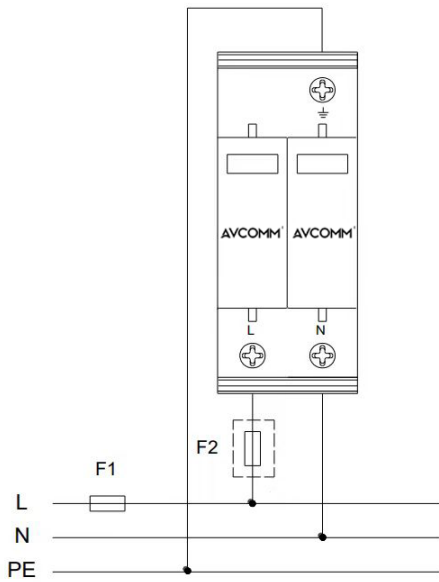


ASPD40-220_r

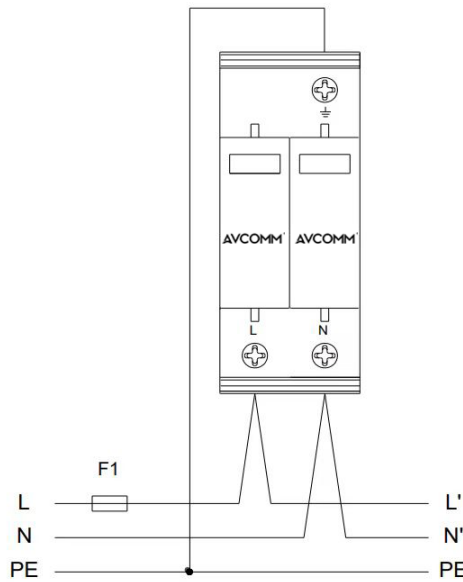


Connection Method

ASPD40-220



$F1 > 125A \text{ gL/gG} \Rightarrow F2 \leq 125A \text{ gL/gG}$
 $F1 \leq 125A \text{ gL/gG} \Rightarrow \cancel{F2}$

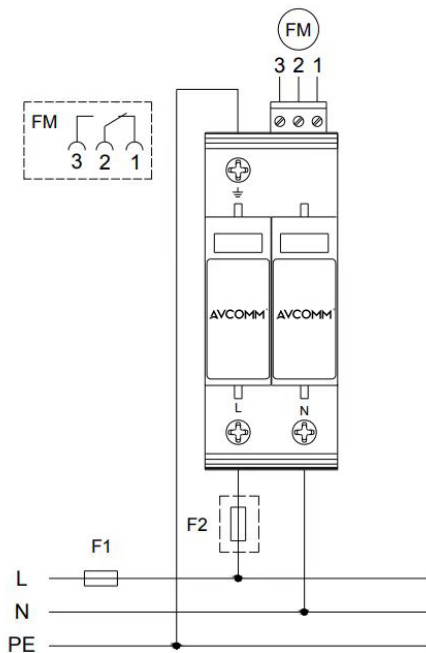


$F1 \leq 80A \text{ gL/gG}$

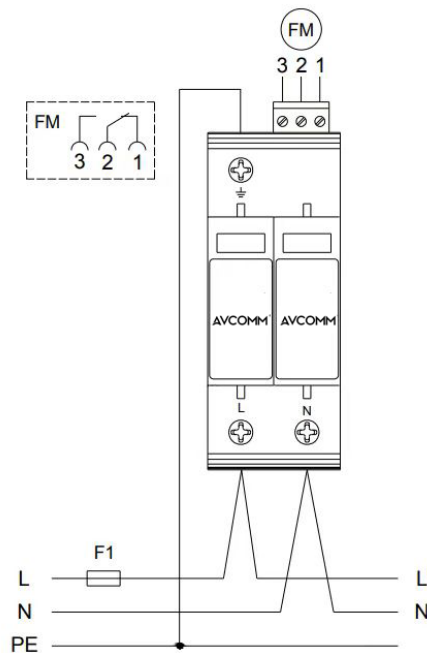
Terminal Connector Wire Cross-Sectional Area (mm²)

Min. □ L, N, ⚡	1.5	1.5
Max. □ L, N, ⚡	25	35

ASPD40-220_r



$F1 > 125A \text{ gL/gG} \Rightarrow F2 \leq 125A \text{ gL/gG}$
 $F1 \leq 125A \text{ gL/gG} \Rightarrow \cancel{F2}$



$F1 \leq 80A \text{ gL/gG}$

Terminal Connector Wire Cross-Sectional Area (mm²)

Min. □ L, N, ⚡	1.5	1.5
Max. □ L, N, ⚡	25	35

Remote Signaling Interface Wire Cross-Sectional Area (mm²)

Min. □ 1, 2, 3	0.1	0.1
Max. □ 1, 2, 3	1.5	1.5