

# ACT TranShield 452S Series Connected Family

## Wall-Mounted Series-Connected Suppression Filter System



**452S-120S-054-F**

- ▶ Maximum protection of critical circuits that require the installation of surge protection to be the highest possible standard. The ACT 452-S type provides just that with a Kelvin connection series design.

Don't sacrifice the maximum possible protection for critical circuits using any other installation method.

The 452-S Series protection products are the electrical circuits that power sensitive and critical equipment.

### ▶ FEATURES AND BENEFITS

- Series Kelvin Connection
- Water Resistance – Indoor Applications
- 4 Modes of Discrete Protection (L-N, N-G)
- 10 Modes of Protection (L-N, L-G, N-G, L-L)
- Green Status Indicating Light
- Individually Fused MOV Technology
- 5 Year Warranty \*See ACT warranty detail

### ▶ STANDARDS MET - SAFETY

Listed by ETL for UL 1449 5th Edition, Type 4 for Type 2 SPD applications, cUL, and UL 1283 / Compliant to IEEE C62.41.1-2002, C62.41.2-2002 and C62.45-2002 / NFPA 70 [NEC], Article 285 / RoHS Compliant / CE, IEC 61643-11-2011 / EMC Directive 2004/108/EC

### ▶ 3RD PARTY TESTED

- Survives 1,000 (C3 6kV / 3kA)

## TECHNICAL INFORMATION

### ▶ MECHANICAL SPECIFICATIONS

Dimensions	L 5.515" x W 4.75" x H 2.0" <i>(See Drawing)</i>
Weight	2.5 lbs.
Enclosure	NEMA 4X Plastic UL-94 VO
Operating Temp	-40F to +140F -40C to +65C
Non-condensing Humidity	5% to 95%

### ▶ ELECTRICAL SPECIFICATIONS

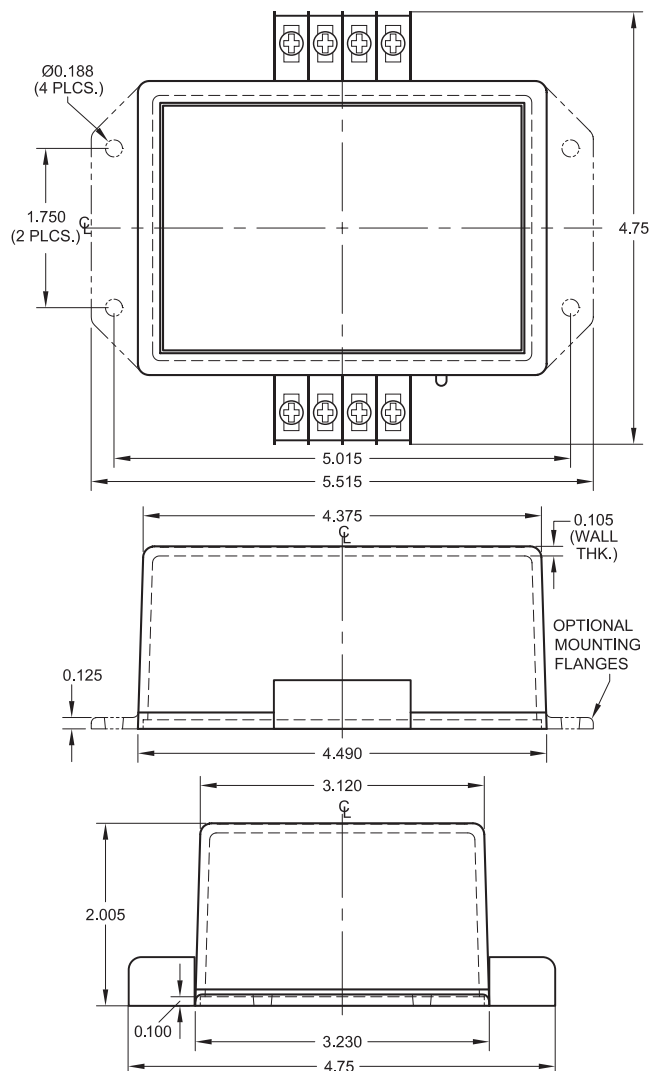
Electrical Rating	30 Amps
Connection Method	Series
Protection Modes (10 Modes)	L-N, L-G, L-L, N-G.
Pre-wired	Series/Inline Terminal Block
Status Indicators	Green LED

### ▶ RECOMMENDED LOCATION

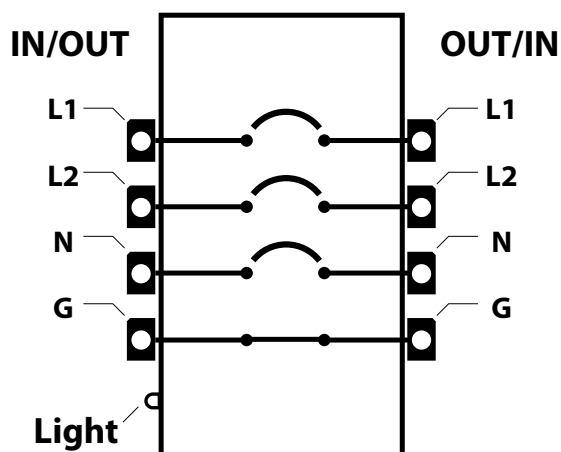
- Process Automation Systems
- Commercial Applications
- HVAC Systems
- Cell Sites
- Robotics
- Pumps
- Motors
- Programmable Logic Controllers

# ACT TranShield 452S Series Connected Family

## DIMENSIONS



## INSTALLATION INSTRUCTIONS



*\*Unit requires a 30Amp means of disconnect*  
*\*\*Noise filter EMI/RFI > -40dB to -3kHz-1MHz*

MODEL	SYSTEM VOLTAGE	SYSTEM CONFIGURATION	PROTECT MODE	MCOV	SVR	VPR
452S-120-054	120V	2 Wire + G	L-N	150	500	700
			N-G	150	500	700
			L-G	300	600	1200
452S-120S-054	120/240V	3 Wire + G	L-N	150	500	700
			N-G	150	500	700
			L-G	300	600	1200
452S-220-054	220V	2 Wire + G	L-N	320	800	1000
			N-G	320	800	1000
			L-G	640	1300	1800
452S-220S-054	220/380	3 Wire + G	L-N	320	800	100
			N-G	320	800	1000
			L-G	640	1300	1800
452S-277-054	277V	2 Wire + G	L-N	320	800	100
			N-G	320	800	1000
			L-G	640	1300	1800
452S-277S-054	277/480	3 Wire + G	L-N	320	800	100
			N-G	320	800	1000
			L-G	640	1300	1800

Surge Rating Per Mode 054 = 54kA -F = EMI Filter Enclosure Type = Plastic