

Surgitron® III -21 Series Type 2

**MEDIUM DUTY FOR RESIDENTIAL
OR INDUSTRIAL APPLICATIONS**



FEATURES AND BENEFITS

- Listed to UL 1449 3rd Edition for a Type 2 SPD application.
- Individual fusing for each Metal Oxide Varistors (MOVs).
- LED indicates proper functioning of L-N and N-G MOVs

PRODUCT SPECIFICATIONS

Electrical

Nominal Discharge Current Rating (I-n)	20kA
Operating Frequency	47–63Hz
Connection Methods	Parallel to Load (shunt) #14 AWG wires
Modes of Protection	1261-21 L-N, L-G, N-G 1263-21 L-L 1452-21 L-N, L-G, N-G, L-L 1456-21 L-N, L-G, N-G, L-L 1456-21-D LG, L-L 1457-21 L-N, L-G, N-G, L-L
Fault Rating (SCCR)	100kAIC
Response Time	Less than 1 nanosecond (one per phase)
Standard Monitoring	LED status indicator lights

Mechanical

Weight	2 lbs. (.9 kg)
Enclosure Type	NEMA 1, Non-metallic
Installation Location	Indoor
Mounting Method	1/2" – 14 NPS Thread (Aluminum Bracket Optional)
Operating Environment	-40° to +176°F (-40° to +80°C)
Altitude	Up to 16,400 ft. (5000 m)
Product Design	Individually fused MOVs

Regulatory

UL 1449 3rd Edition Type	Type 2
UL 1283	No
IEEE C62.41.1, .2, C62.45	Yes
Listed By	UL

AVAILABLE CONFIGURATIONS

Model Number	kA Per Phase	Voltage	Configuration
1261-21	40kA	277V	1-Phase, 2-Wire + Ground
1263-21	40kA	480V	1-Phase, 2-Wire
1452-21	40kA	120/240V	3-Phase High-Leg Delta, 4-Wire + Ground
1456-21	40kA	277/480V	3-Phase, 4-Wire + Ground
1456-21-D	40kA	480V	3-Phase, 3-Wire + Ground
1457-21	40kA	230/400V	3-Phase, 4-Wire + Ground

Warranty

3-years

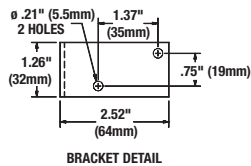
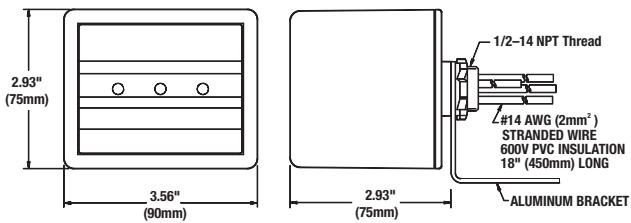
Available Options

Mounting Bracket Add suffix -B

SURGITRON III PERFORMANCE DATA

Model Number	Voltage Configuration	Protection Modes	MCOV	UL 1449 3rd Edition 6kV 3000A VPR
1261-21	277	L-N	320	1200
		L-G	640	2500
		N-G	0	1200
1263-21	480	L-L	600	2500
1452-21	120/240	L-N	150 (470)	700 (1800)
		L-G	300 (470)	1200 (1800)
		N-G	0	700
		L-L	300 (470)	120 (1500)
1456-21	277/480	L-N	320	1200
		L-G	640	2000
		N-G	0	1200
		L-L	640	2500
1456-21-D	480	L-G	640	2000
		L-L	640	2500
1457-21	230/400	L-N	320	1200
		L-G	640	2000
		N-G	0	1200
		L-L	640	2500

DIMENSIONAL SPECIFICATIONS



Thomas & Betts Corporation
 5900 Eastport Blvd., Bldg. V
 Richmond, VA 23231
 Phone: 800.238.5000
www.tnbpowersolutions.com

Thomas & Betts

A Member of the ABB Group