

Surgitron® III 1261-21 Series

MEDIUM DUTY FOR RESIDENTIAL OR INDUSTRIAL APPLICATIONS



AVAILABLE CONFIGURATIONS

Model Number	kA Per Phase	Voltage	Configuration
1261-21-xx	40kA	230V	1-Phase, 2-Wire + Ground

xx = -TNG, -TMS, -TT, -IT, -IT-L

Warranty

3-years

Available Options

Mounting Bracket	Add suffix -B
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PRODUCT SPECIFICATIONS

Electrical

Nominal Discharge Current Rating (I-n)	20kA
Operating Frequency	50–60Hz
Connection Methods	Parallel to Load (shunt) #14 AWG wires 30A Max Breaker
Modes of Protection	Model Dependent
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

FEATURES AND BENEFITS

- Listed to UL 1449 3rd Edition for a Type 2 SPD application.
- Individual fusing for each Metal Oxide Varistors (MOVs).
- There is a 1261 model for each power system configuration (neutral grounding practice) as defined in EN60950:

TNC – Neutral and PE (protected earth conductor) are combined throughout the system while TNCS splits the combined PEN into a separate neutral and PE at the service entry; the U.S. practice is a variation of this. The neutral is earthed at the transformer for both types. The model 1261-21-TNC is suited for both TNC and TNCS systems.

TNS – Neutral is earthed at the transformer; however, is not bonded to earth or the PE elsewhere. The PE is carried to the site from the transformer and bonded to site earth. Model 1261-21-TNS is intended for use on this system; it can also be used on TNCS as well as on U.S. 120/240V services without the neutral.

TT – Neutral is earthed at the transformer. The PE originates at site; however, is not bonded to the neutral. There is no interconnection between the PE and transformer earth. The 1261-21-TT is for use on this system; it can also be employed upon TNS, TNCS and U.S. services without neutral.

IT and IT-L – The transformer is unearthed or earthed through high impedance. The PE originates at site; however, is not bonded to a service conductor. No conductor in this system is designated as neutral. The 1261-21-IT is suited for this application; it can also be used on TT, TNS, TNCS and U.S. services without neutral power systems.

Mechanical (Continued)

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 Overcurrent Fusing Thermal Fusing

Regulatory

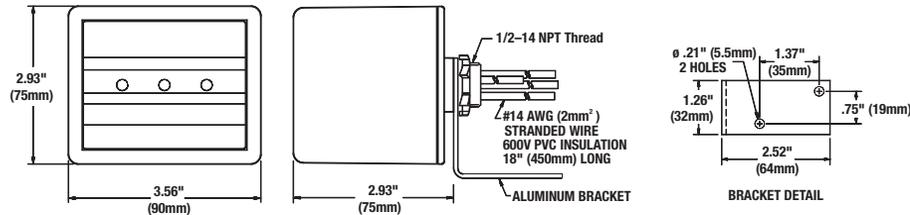
UL 1449 3rd Edition Type	Type 2
UL 1283	No
IEEE C62.41.1, .2, C62.45	Yes
Listed By	UL

SURGE PROTECTIVE DEVICES

SURGITRON III PERFORMANCE DATA

Model Number	Voltage Configuration	Protection Modes	MCOV	UL 1449 3rd Edition 6kV 3000A VPR
1261-21-TNC	230	L-N	300	1200
		N-G	0	1200
1261-21-TNS	230	L-N	300	1200
		L-G	300	1200
		N-G	0	1200
		L-N	300	1800
1261-21-TT	230	L-G	300	1200
		N-G	0	1800
		L-N	300	1200
1261-21-IT	230	L-G	480	1800
		N-G	0	1800
		L-N	300	1800
1261-21-IT-L	230	L-G	480	1800
		N-G	0	1800
		L-N	300	1800

DIMENSIONAL SPECIFICATIONS



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