

Surgitron® III 1261-21 Series

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).
- 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.

AVAILABLE CONFIGURATIONS

Model Number	kA Per Phase	Voltage	Configuration
1261-21-xx	40kA	230V	1-Phase, 2-Wire + Ground
<i>xx = -TNG, -TMS, -TT, -IT, -IT-L</i>			

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

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

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
1261-21-TT	230	L-N	300	1800
		L-G	300	1200
		N-G	0	1800
1261-21-IT	230	L-N	300	1200
		L-G	480	1800
		N-G	0	1800
1261-21-IT-L	230	L-N	300	1200
		L-G	480	1800
		N-G	0	1800

DIMENSIONAL SPECIFICATIONS

