

AC SURGE PROTECTOR SURGITRON III

MODEL NUMBER SCHEME

Available Configurations

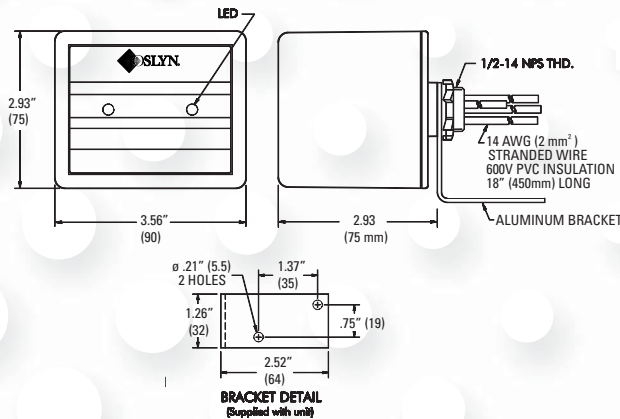
Model Number	Voltage	Configuration
1261-21-XX	230V	1-Phase, 2 Wire 50-60 Hz

*XX is -TNC, -TNS, -TT, -IT, IT-L

SPECIFICATIONS

Maximum Surge Current	
Single Pulse, 8/20 μ s	40 kA
Nominal Discharge Surge Current	
	20 kA
Surge Life, L-(N+G), 230 Vac applied	
3 kA, 8/20 μ s	22,000 times
10 kA, 8/20 μ s	800 times
Component Response Time	
	<1 ns
Operating Temperature	
	-40° to +80° C
Warranty	
	3 years
Safety Approvals: UL 1449 3rd Edition	
CE Compliant with Directive 73/23/EEC, EN 60950	

DIMENSIONS



SYSTEM FEATURES AND BENEFITS

- UL 1449 3rd Edition Listed Device
- Type 2 SPD suitable for use at service entrance, distribution panel or equipment, permanently connected behind a 30A max breaker.
- Technology – MOVs with individual fuses. Faceplate LED's indicate proper functioning of all 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.

CHARACTERISTICS

Connection Means	In Parallel to Load, # 14 wires
Upstream Overcurrent Device	30 Amps max.
Short Circuit Current Rating	100kAIC
Nominal System Voltage	220-240 V
Leakage, L-G at 240Vac	<500 μ A

MODEL NUMBERING

Protection Modes	-TNC		-TNS			-TT			-IT			-IT-L		
	L-N	N-PE	L-N	L-PE	N-PE	L-N	L-PE	N-PE	L-N	L-PE	N-PE	L-N	L-PE	N-PE
UL 1449 MCOV	300 V	0	300 V	300 V	0	300 V	390 V	0	300 V	480 V	0	300 V	480 V	0
UL 1449 Voltage Protection Rating (VPR) 6kv, 3kA 8/20us	1200 V	1200 V	1200 V	1200 V	1200 V	1200 V	1800 V	1800 V	1200V	1800 V	1800 V	1200 V	1800 V	1800 V
Varistor Voltage at 1 mA _{dc}	470 V	470 V	470 V	470 V	470 V	470 V	615 V	615 V	470 V	755 V	755 V	470 V	755 V	755 V
	TNC		-TNS			-TT			-IT			-IT-L		
Suppression Voltage, Waveshapes per ANSI/IEEE C62.41	L-N	N-PE	L-N	L-PE	N-PE	L-N	L-PE	N-PE	L-N	L-PE	N-PE	L-N	L-PE	N-PE
200A, 100kHz	730 V	730 V	730 V	730 V	730 V	730 V	925 V	925 V	730 V	1120 V	1120 V	730 V	1120 V	1120 V
500A, 100kHz	770 V	770 V	770 V	770 V	770 V	770 V	960 V	960 V	770 V	1170 V	1170 V	770 V	1170 V	1170 V
500A, 8/20us	740 V	740 V	740 V	740 V	740 V	740 V	920 V	920 V	740 V	1170 V	1170 V	740 V	1170 V	1170 V
3kA, 8/20us	830 V	830 V	830 V	830 V	830 V	830 V	1040 V	1040 V	830 V	1310 V	1310 V	830 V	1310 V	1310 V
10kA, 8/20us	1055 V	1055 V	1055 V	1055 V	1055 V	1055 V	1280 V	1280 V	1055 V	1620 V	1620 V	1055 V	1620 V	1620 V

