



BTU RESEARCH™

# SURGE PRO

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SINGLE/SPLIT PHASE SURGE PROTECTIVE DEVICE MODELS FOR  
NORTH AMERICA & EUROPE



The **Surge PRO** is designed to protect valuable electronics and appliances from transients and surge disturbances on the AC power line.



## PRODUCT FEATURES

- AC Circuit Protection for Entire Residences
- Status Indication (Protection)
- Indoor/Outdoor Design
- Universally Connects to any Breaker Panel
- Quick and Simple Installation

## ENGINEERED SOLUTIONS RESIDENTIAL/COMMERCIAL/INDUSTRIAL

BTU PART NUMBER	BTU SPD 1-230	BTU SPD 1-120
Enclosure Sizes	7 x 9.2 x 3.25	7 x 9.2 x 3.25
AC Network	230	120/240
UL Max. Operating Voltage (MCOV)	275Vac	150Vac
TOV Withstand (UT)	440Vac	230Vac
3 Phase Breaker Size	20-30 Amp	20/30 Amp
Frequency	50-60 hz	50-60 hz
Wire Size (AWG)	10-12	10-12
Connection Mode	L-N, L-G, -N-G, L-L (where applicable)	
IEC/UL Nominal Discharge (In) <i>15 impulses 8/20 μs</i>	30/20kA	30/20kA
Max. Discharge Current (Imax) <i>1 impulse 8/20 μs</i>	70kA	70kA
UL Voltage Protection Rating (VPR)	1kV	700V
Protection Level at In (Up)	1.4kV	1kV
UL Short-Circuit Current Rating (SCCR)	100kAIC	100kAIC
Leakage Current at MCOV (Ic)	<1mA	<1mA
Follow Current (If)	none	none
AC System	IT, TT, TN, Single, Split Phase, Delta, Wye	
Housing Material	Nema 4x	
Weight	3.05 lbs	
STANDARDS COMPLIANCE		
IEC61643-1 – INTERNATIONAL	Class II	
EN 61643-11 – EUROPE	Class II	
NF EN 61643-11 – FRANCE	Class II	
UL1449 4th Edition	Type 2	
CSA C22.2 NO 269.4	Class 9091 32, Class 9091 92	
RoHS	Directive 2002/95/EC	