



BTU RESEARCH™

SURGE PRO

THREE PHASE MODELS



BTU Research's 3-phase SURGE PRO UL 1449 4th Edition Type 2 surge protective devices have been designed to protect networks at the main electrical panel or at a specific load. They provide both common & differential mode protection and are available in 3-phase Wye & Delta configurations. The SURGE PRO's high impulse discharge capabilities is critical in both high lightning density areas and/or areas where power quality is an ongoing issue. This Series offers up to 210kA total surge handling while employing replaceable modules for fast and easy maintenance, real-time LED diagnostics and is equipped with internal thermal fusing to comply with all safety standards.



ENGINEERED SOLUTIONS COMMERCIAL/INDUSTRIAL

THREE PHASE VERSION

BTU PART NUMBER	BTU SPD 3-600	BTU SPD 3-400	BTU SPD 3-230	BTU SPD 3-120
Enclosure Sizes	7 x 9.2 x 3.25	7 x 9.2 x 3.25	7 x 9.2 x 3.25	7 x 9.2 x 3.25
AC Network	480/600D	277/480V 247/600	240D 220/240	120/208
UL Max. Operating Voltage (MCOV)	840Vac	420Vac	275Vac	150Vac
TOV Withstand (UT)	840Vac	420Vac	275Vac	150Vac
3 Phase Breaker Size	20-30 Amp	20/30 Amp	20-30 Amp	20-30 Amp
Frequency	50-60 hz	50-60 hz	50-60 hz	50-60 hz
Wire Size (AWG)	10-12	10-12	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	30/20kA	30/20kA
Max. Discharge Current (Imax) <i>1 impulse 8/20 μs</i>	70kA	70kA	70kA	70kA
UL Voltage Protection Rating (VPR)	2500V	1500V	1kV	700V
Protection Level at In (Up)	2.5kV	1.8kV	1.4kV	1kVt
UL Short-Circuit Current Rating (SCCR)	100kAIC	100kAIC	100kAIC	100kAIC
Leakage Current at MCOV (Ic)	<1mA	<1mA	<1mA	<1mA
Follow Current (If)	none	none	none	none
AC System	IT, TT, TN, Single, Split Phase, Delta, Wye			
Housing Material/Dimensions	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			