

 <b>Allen-Bradley</b>	<h1 style="margin:0;">Technical Specification</h1> <h2 style="margin:0;">AB346Y111</h2> <h3 style="margin:0;">160,000 Amps Per Phase</h3>	
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**The *IslaGuard* AB Series is a multi-phase, multi-mode distribution panel mounted transient voltage surge suppressor (TVSS) that offers continuous protection from damaging transients and electrical line noise.**

**The *IslaGuard* system is UL tested at 200,000 AIC. Each MOV inside the system is individually fused and matched within 1 Volt to ensure maximum sharing and full surge current handling capability. These 99.9% pure silver links are ultra fast clearing providing minimal follow current in the event failure occurs.**

*While every precaution has been taken to ensure accuracy and completeness in this document, Emerson Network Power Surge Protection assumes no responsibility, and disclaims all liability for damages resulting from use of this information or any errors or omissions.*

Nominal Operating Voltage / Phase Configuration	346/600VAC, Three Phase Wye, 4 Wire + Gnd
Operating Voltage Range	347 VAC +/- 15%
Operating Frequency Range	47 - 63 Hz
Fault Current Rating	200kAIC
ANSI/IEEE C62.41 Category	A, B, & C
SPD Location Type	Type 2
Nominal Discharge Current (In)	20kA
Connection Type	Terminals (#10 -#14 AWG)
Capacity	Continuous (Parallel Connection)
Size	7 x 4.25 x 4 (inches)
Enclosure Rating	NEMA 4X
Weight	6.5 lbs. (3 kgs.)
Modes Of Protection	L-N, L-G, L-L, N-G
50Ω EMI/RFI Attenuation Normal Mode	60 dB Typ
Indication of Suppression Status	Green & Red LED, Audible Alarm with Enable/Disable Feature, Form C summary alarm contacts
Response Time	<.5 ns
Operating Temperature	- 40°C to 60°C
Operating Humidity	0% to 95% non-condensing
Warranty	5 Year
Certifications	UL 1449 Third Edition (2009), UL 1283, CUL

<b>Maximum Continuous Operating Voltage (MCOV)</b>											
Line to Line / Line to Neut / Line to Gnd / Neut to Gnd	840V / 420V / 420V / 420V										
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%; text-align: center;">UL 1449 2nd Edition SVR's</th> <th style="width:50%; text-align: center;">UL 1449 Third Edition VPR's</th> </tr> <tr> <td>Line to Neutral</td> <td>Line to Neutral</td> </tr> <tr> <td>Line to Ground</td> <td>Line to Ground</td> </tr> <tr> <td>Line to Line</td> <td>Line to Line</td> </tr> <tr> <td>Neutral to Ground</td> <td>Neutral to Ground</td> </tr> </table>		UL 1449 2nd Edition SVR's	UL 1449 Third Edition VPR's	Line to Neutral	Line to Neutral	Line to Ground	Line to Ground	Line to Line	Line to Line	Neutral to Ground	Neutral to Ground
UL 1449 2nd Edition SVR's	UL 1449 Third Edition VPR's										
Line to Neutral	Line to Neutral										
Line to Ground	Line to Ground										
Line to Line	Line to Line										
Neutral to Ground	Neutral to Ground										
Line to Neutral	1000 Vpk										
Line to Ground	1000 Vpk										
Line to Line	2000 Vpk										
Neutral to Ground	1000 Vpk										
Line to Neutral	1500 Vpk										
Line to Ground	1500 Vpk										
Line to Line	2500 Vpk										
Neutral to Ground	1200 Vpk										

<b>ANSI/IEEE C62.41 Cat C3 Attenuation (20 kV, 10 kA, 8 x 20 μs)</b>	
Line to Neutral	1519 Vpk
Line to Ground	1572 Vpk
Line to Line	2462 Vpk
Neutral to Ground	1781 Vpk
<b>ANSI/IEEE C62.41 Cat C1 Attenuation (6 kV, 3 kA, 8 x 20 μs)</b>	
Line to Neutral	1151 Vpk
Line to Ground	1141 Vpk
Line to Line	2036 Vpk
Neutral to Ground	1177 Vpk
<b>Maximum Surge Current Capacity (8 x 20 μs)</b>	
Line to Neutral	80,000 Amps
Line to Ground	80,000 Amps
Line to Line	80,000 Amps
Neutral to Ground	80,000 Amps
Total	560,000 Amps
<b>Maximum Surge Energy (8 x 20 μs)</b>	
Line to Neutral	960 Joules
Line to Ground	960 Joules
Line to Line	1920 Joules
Neutral to Ground	960 Joules
Total	6720 Joules
<b>Life Cycle Testing: 10kA, 20kV, IEEE Cat. C3</b>	
Line to Neutral	8,000
Line to Ground	8,000
Line to Line	8,000
Neutral to Ground	8,000
Per Phase (L-N + L-G)	16,000

