

# Spike Byock

SURGE PROTECTION DEVICE



The Spike Block ALP(2F)-100 Series of hardwired AC Surge Protection Devices (SPD) are fast responding, high current handling devices designed to protect sensitive electronic equipment and systems from damaging transient surge events. The SPDs are Listed to ANSI/UL 1449 4th Edition as Type 1 & 2 suppressor. A proprietary circuit design offers superior voltage protection levels at high surge currents to meet the most demanding protection requirements. Diagnostics include easy to see status LEDs and dry relay contacts for remote annunciation.



Case Size			Hole Positions				
Α	В	С	D	E	F	G	
162 mm (6.4 in.)	122 mm (4.8 in.)	89 mm (3.5 in.)	173 mm (6.8 in.)	148 mm (5.8 in.)	60.3 mm (2.4 in.)	89 mm (3.5 in.)	





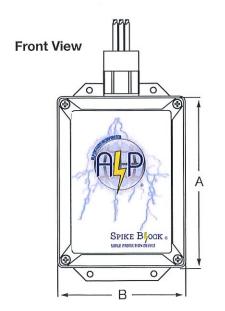
#### **FEATURES**

- UL 1449 4th Edition Type 1 & 2
- Thermally Protected MOV technology
- 100 kA Surge Current Rating
- 200 kAIC Fault Current Rating
- 10 Year Warranty

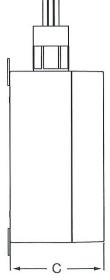
#### **APPLICATIONS**

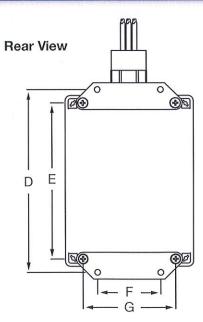
For Critical Electronic Equipment located in:

- Petro-Chemical, Oil & Gas
- Industrial Automation
- Data Centers
- Communication Sites









## **Surge Protection Device**

# **ALP(2F)-100-xxxx**



## **Specifications**

Model	ALP(2F)-100				
UL 1449 Location Type	Type 1 and Type 2				
Connection Type	Parallel Connected				
Agency Listings	UL 1449 4th Edition, UL 1283				
Protection Modes	Line to Neutral, Line to Ground, Line to Line, Neutral to Ground				
Operating Frequency Range	47 - 63 Hertz				
Maximum Continuous Operating Voltage Range	115%				
Maximum Surge Current Rating	100 kA per phase				
Short Circuit Current Rating (SCCR)	200 kAIC				
UL 1449 Nominal Discharge Current (In)	20 kA				
50 ohm EMI/RFI Attenuation	63 dB max from 10kHz to 100MHz				
Response Time	< 1 nanosecond				
Status Indication	Status LEDs, Relay alarm contacts				
Enclosure Protection Level	Polycarbonate NEMA 4X				
Dimensions (H x W x D)	6.4" x 4.8" x 3.5"				
Weight (Maximum)	5 lbs				
Wire Connections	Stranded #10 AWG				
Wire Lead Length	36 inch				
Operating Temperature	-40 to +65 °C				
Operating Humidity	Up to 95% non condensing				
Altitude	Up to 18,000 feet				

❖NOTE

Alternate enclosure options available

### **Model Selection**

Model Number	Carrier Vallage	MCOV	Voltage Protection Rating (VPR)			
Wodel Number	Service Voltage		L-N	L-G	N-G	L-L
ALPx2F-100-120S	120 V Single Phase	180 Vac	900 V	800 V	700 V	N/A
ALPx2F-100-120T	120/240 V Split Phase	180 Vac	900 V	800 V	700 V	1500 V
ALPx2F-100-120W	120/208 V 3 Phase Wye	180 Vac	900 V	800 V	700 V	1500 V
ALPx2F-100-127W	127/220 V 3 Phase Wye	180 Vac	900 V	800 V	700 V	1500 V
ALPx2F-100-240S	240 V Single Phase	320 Vac	1500 V	1200 V	1200 V	N/A
ALPx2F-100-220W	220/380 V 3 Phase Wye	320 Vac	1500 V	1200 V	1200 V	2500 V
ALP-100-240D	240 V 3 Phase Delta	320 Vac	N/A	800 V	N/A	1200 V
ALPx2F-100-240W	240/415 V 3 Phase Wye	320 Vac	1500 V	1200 V	1200 V	2500 V
ALPx2F-100-480W	277/480 V 3 Phase Wye	320 Vac	1500 V	1200 V	1200 V	2500 V
ALP-100-480D	480 V 3 Phase Delta	550 Vac	N/A	1200 V	N/A	2500 V
ALPx2F-100-600W	347/600 V 3 Phase Wye	420 Vac	1500 V	1500 V	1500 V	2500 V
ALP-100-600D	600 V 3 Phase Delta	690 Vac	N/A	1500 V	N/A	2500 V

<sup>\*\*</sup> Delta configurations do not come with a filter, so the '2F' is dropped from the part number. \*\*



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