

Features

- 100 kA max. discharge current rating
- Multi-pole uni-block design
- DIN Rail mountable
- UL 60691 compliant integrated thermal disconnect
- Visual fault indicator
- Remote signalling capability

- Compact design ideal for limited spaces
- Standards compliance: CE S III
- RoHS compliant*

1210 Series Heavy Duty AC Surge Protective Device

General Information

The Bourns[®] Model 1210 Series is a heavy duty Surge Protective Device (SPD) designed to protect high risk electrical service entrance and branch panels. This SPD is intended to be installed at the front end of the installation, in the main switchboard, close to sensitive terminals or in installations without LPS (lightning rods).

The Model 1210 Series is a single-pole module that can be configured for both common mode and differential mode protection in single and three phase applications up to 600 V.



- V : High energy varistor Ft : Thermal fuse
- C : Remote signaling contact
- t° : Thermal disconnection system
- Mi : Disconnection indicator

Electrical Characteristics

Characteristic	Model No.			
	1210-xS-120	1210-xS-230	1210-xS-400	1210-xS-600
AC Network	120/240 V, 120/208 V	220/380 V, 240/415 V	220/380 V, 277/480 V, 347/600 V	480 V, 600 V
Connection Mode	1-Pole, L-N or L-G			
AC System	IT, TT, TN, Single, Split Phase, Delta, Wye			
Max. Operating Voltage (MCOV)	150 V	275 V	420 V	840 V
TOV Withstand	230 V	440 V	770 V	1117 V
Leakage Current at Uc	< 1 mA			
Follow Current	None			
UL Nominal Discharge Current (In) 15 Impulses 8/20 µs	20 kA			
Max. Discharge Current (I _{max}) 1 Impulse 8/20 μs	100 kA			
UL Voltage Protection Rating (VPR)	600 V	900 V	1200 V	3000 V
Protection Level (Up)	0.9 kV	1.25 kV	1.8 kV	4.0 kV
UL Short-Circuit Current Rating (SCCR)	100kAIC			

General Characteristics

Characteristic	Model No.				
	1210-xS-120	1210-xS-230	1210-xS-400	1210-xS-600	
Thermal Disconnector	UL 60691				
Overcurrent Protection	Time Delay - 125 A Max.				
Connection	By Screw Terminals, #6 AWG Max.				
Dimensions	90 x 18 x 67 mm / (3.543 x 0.709 x 2.638 ln.)				
Mounting	DIN Rail, 35 mm Symmetrical				
Remote Signal Indicator	250 V Max., 2 A				
Enclosure Material	Thermoplastic UL 94V0				

Environmental Characteristics

Characteristic	Model No.					
Characteristic	1210-xS-120	1210-xS-230	230 1210-xS-400	1210-xS-600		
Operating Temperature		-50 °C to +85 °C				
Operating Altitude	13,000 ft. (4,000 m)					
Relative Humidity	5 to 95 % Non-condensing, up to 100 % External					
Environmental Rating	IP 20					

^{*}RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

Applications

Electrical service entrance

Branch panels

1210 Series Heavy Duty AC Surge Protective Device 🛛 🗲

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Product Dimensions and Schematics



1210-3S-120, 1210-3S-230, 1210-3S-400



1210-4S-120, 1210-4S-230, 1210-4S-400

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Product Dimensions and Schematics (Continued)

1210-1S-600



1210-3S-600

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Standards Compliance

How To Order



* Refer to the mechanical differences shown above when ordering Models 1210-1S-600 and 1210-3S-600.

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