

Features

- Hybrid protection technology
- Extremely low leakage current
- EMI/RFI noise filtering
- Heavy duty surge protection with filtering
- LED indicators and audible alarm
- Compact form factor
- Indoor or outdoor installation

■ UL1449 4th Edition

■ RoHS compliant*

1252 Series Hardwired AC Hybrid Surge Protective Device (H-SPD)

General Information

The Bourns® Model 1252 Series is a Type 2 hardwired hybrid surge protective device targeted for AC infrastructure applications. The hybrid Model 1252 design combines fast responding MOV technology with low leakage GDT technology resulting in reliable and long term performance. The Model 1252 Series also includes filtering circuitry for additional noise mitigation.

Electrical Characteristics

Characteristic		Model No.		
		1252-120S	1252-208Y	1252-240S
Electrical Distribution System		120 VAC Single Ph	120 / 208 VAC 3 Ph Wye	120 / 240 VAC Single Ph
Nominal (Operating) Voltage		120 VAC	120 / 208 VAC	120 / 240 VAC
Maximum Operating Voltage	MCOV	150 VAC		
Temporary Overvoltage Withstand	U _T	150 VAC		
Nominal Discharge Current in 15 Applications of 8/20 μ s Impulse Waveform	In	20 kA		
Maximum Discharge Current 8/20 μs Withstand Single Operation	I _{max}	50 kA		
Overvoltage Protection Rating (3 kA)	V _{pr}	700 VAC		
Protection Level at In	U _p -I _n	1200 VAC		
Short Circuit Current Rating	I _{sccr}	100 kA		

Disconnection Features / Options

Thermal Disconnect	Internal
Fuses or Circuit Breakers	40 A
Ground Fault Breaker (if Installed)	Type S or Delay

Mechanical Characteristics

Enclosure	Aluminum
Environmental Rating	IP 66 / NEMA 4x
Operating Temperature	40 °C to +85 °C
Mounting	Bulkhead (3/4)
Weight	2.5 lbs.
Disconnection Indicator	LED off and audible alarm on
Electrical Connection	12 AWG wiring leads, 20 inches max. length
Mechanical Connection to Panel	12 gauge, straight nipple with conduit nut
	for mounting through 0.5 inch knockout
	(actual hole size 0.875 inch)

Standards Compliance

UL1449 4th Edition, Type 2	E313168
CEI 61643-1, International	
EN 61643-11, Europe	Low Voltage SPD - Test Class II

How To Order

Series

Nominal (Operating) Voltage

120S = 120 VAC
208Y = 120/208 VAC
240S = 120/240 VAC
Configuration

N1= Wiring/Nipple Right Side Exit
N2 = Wiring/Nipple Rear Exit

Packaging Specifications

1252 Seriesone unit per box

Specifications are subject to change without notice.

^{*}RoHS Directive 2015/863, Mar 31, 2015 and Annex.

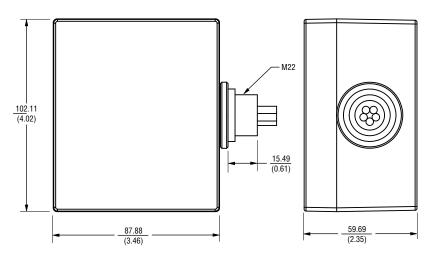
Applications

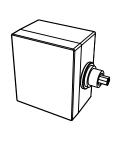
- Service entrance, branch and OEM panels
- Electrical infrastructures
- Equipment and systems
- Protection from lightning
- Protection from AC power-induced problems

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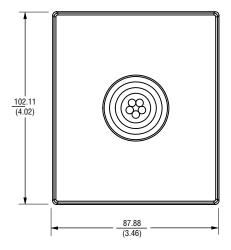
Product Dimensions

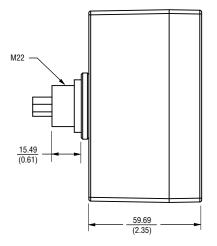
N1 Configuration

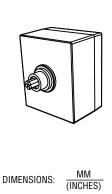




N2 Configuration







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