

Technical Specification

300 Series
Surge Protective Device

320DB02AWRC2S

50,000 Amps Per Phase



The Emerson Network Power 300 Series Surge Protective Devices are electronic grade surge protective devices designed to protect electronic equipment and microprocessor based systems from transients on sub-distribution panels, branch panels, or equipment located in low exposure locations.

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	240VAC, Three Phase Delta, 3 Wire + Gnd
Operating Voltage Range	240 VAC +/- 15%
Operating Frequency Range	47 - 63 Hz
Fault Current Rating	22kAIC
ANSI/IEEE C62.41 Category	A & B
SPD Location Type	Type 2
Nominal Discharge Current (IN)	3kA
Connection Type	Conductors - 12 AWG, Form C Contacts - 18 AWG
Capacity	Continuous (Parallel Connection)
Size	4.72 x 4.72 x 2.36 (Inches)
Enclosure Rating	ABS Plastic, 94V-0, Type 1
Weight	5 lbs. (2.3 kgs.)
Modes Of Protection	L-G, L-L
Indication of Suppression Status	External LED, Form C contacts
50Ω EMI/RFI Attenuation - Normal Mode	40 dB Typical
Response Time	<.5 ns
Operating Temperature	- 40°C to 75°C
Operating Humidity	0% to 95% non-condensing
Certifications	UL 1449 Third Edition (2009), CUL
Warranty	5 Years

Maximum Continuous Operating Voltage (MCOV)	
Line to Line / Line to Neut / Line to Gnd / Neut to Gnd	640V / NA / 320V / NA

UL 1449 Second Edition SVR's		UL 1449 Third Edition VPR's	
Line to Neutral	N/A	Line to Neutral	N/A
Line to Ground	1000 Vpk	Line to Ground	1200 Vpk
Line to Line	1000 Vpk	Line to Line	2000 Vpk
Neutral to Ground	N/A	Neutral to Ground	N/A

ANSI/IEEE C62.41 Cat C Attenuation (6 kV, 10 kA, 8 x 20 μs)	
Line to Neutral	N/A
Line to Ground	910 Vpk
Line to Line	910 Vpk
Neutral to Ground	N/A

Maximum Surge Energy (8 x 20 μs)	
Line to Neutral	N/A
Line to Ground	1,080 Joules
Line to Line	1,080 Joules
Neutral to Ground	N/A
Total	6,480 Joules

Maximum Surge Current Capacity (8 x 20 μs)	
Line to Neutral	N/A
Line to Ground	25,000 Amps
Line to Line	50,000 Amps
Neutral to Ground	N/A
Total	150,000 Amps

