

AC Voltage SPD Application & Location Guide

Images depicted herein are for demonstration purposes. Each facility is different, and user needs may vary. Adjust accordingly, based on equipment value and/or downtime expenses.

IEEE C62.41.2-2002 Category C

IEEE: Category C - Service Entrance Exposure

NEC 285 & NRTL: SPD Type 1, 2, or equivalent Type 4

N&G Bonded (i.e., L-N and L-G are same)

Higher available fault currents require appropriate SCCR ratings

Historical kA ratings:
Per Phase: 400kA to 200kA per phase
Per Mode: 200kA to 100kA per mode

(Per Phase generally considered Sum of L-N plus L-G)

IEEE C62.41.2-2002 Category B

IEEE: Category B - External remnant or Internally Induced

NEC 285 & NRTL: SPD Type 1, 2, or equivalent Type 4

L-N and L-G are different – need L-N, L-G, and N-G

Require appropriate SCCR ratings

Historical kA Ratings:
Per Phase: 300kA to 100kA per phase
Per Mode: 150kA to 50kA per mode

(Per Phase generally considered Sum of L-N plus L-G)

IEEE C62.41.2-2002 Category A

IEEE: Category A, maybe B, maybe C if outdoor loads are connected

NEC 285 & NRTL: SPD Type 1, 2, or equivalent Type 4. Could be Type 3.

L-N and L-G are different – need L-N, L-G, and N-G

Require appropriate SCCR ratings

Historical kA Ratings:
Per Phase: 160kA to 100kA per phase
Per Mode: 80kA to 50kA per mode

(Per Phase generally considered Sum of L-N plus L-G)

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