

Technical Data and Specifications

Table 4-1. Lightning Arresters

| Description                                                 | Discharge Voltage, Vac |      |      |       | Lead Length Inches (mm) | Catalog Number |
|-------------------------------------------------------------|------------------------|------|------|-------|-------------------------|----------------|
|                                                             | 1.5 kA                 | 3 kA | 5 kA | 10 kA |                         |                |
| Surge Protector Plug-On Type CH, Single-Phase, 120/240 Vac  | 345                    | 370  | 500  | 545   | 8 (203.2)               | CHSA           |
| Surge Protector Plug-On Type BR, Single-Phase, 120/240 Vac  | 345                    | 370  | 500  | 545   | 8 (203.2)               | BRSURGE        |
| Surge Protector Plug-On Type CHQ, Single-Phase, 120/240 Vac | 345                    | 370  | 500  | 545   | 8 (203.2)               | CHQSA          |
| Surge Protector, 2-Pole Single-Phase, 3-Wire, 120/240 Vac   | 490                    | 640  | 980  | 1410  | 15 (381.0)              | CHSA01         |
| Surge Protector, 3-Pole Single-Phase, 4-Wire, 120/240 Vac   | 1700                   | 2100 | 2510 | 3800  | 15 (381.0)              | CHSA03         |

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Table 4-2. Surge Protection Devices

| Description               | System Voltage            | Protection Modes | Surge Current Capacity                  | UL Let-through Voltage | Telephone Protection                | Coaxial Protection                                       | Maximum Continuous Operating Voltage | EMI/RFI Noise Rejection (L-N) | Capacitance             | Installation/Enclosures                              | Agency Approvals                         | Catalog Number                                  |
|---------------------------|---------------------------|------------------|-----------------------------------------|------------------------|-------------------------------------|----------------------------------------------------------|--------------------------------------|-------------------------------|-------------------------|------------------------------------------------------|------------------------------------------|-------------------------------------------------|
| CHSP Micro                | 120/240                   | L-G              | 20,000 A per Phase                      | 400                    | —                                   | —                                                        | 150                                  | —                             | —                       | Indoor/Outdoor Enclosure                             | UL 1449 (2nd Ed.), CSA                   | CHSPMICRO<br>CHSPMICRO230INT                    |
| CHSP Max                  | 120/240                   | L, L, N, G       | 50,000 A per Phase                      | 400                    | —                                   | —                                                        | 150                                  | —                             | —                       | Indoor/Outdoor Enclosure<br>Flushmount Kit Available | UL 1449 (2nd Ed.), CSA                   | CHSPMAX<br>CHSPMAX230INT                        |
| CHSP 3-Way                | 120/240                   | L, L, N, G       | 40,000 A per Phase                      | 400                    | 4 Pair, Terminal Mount              | Patented High Frequency "F" Connectors 1 Line Protected  | 150                                  | —                             | < 15pf, Low Signal Loss | Indoor/Flushmount Enclosure                          | UL 1449, UL497A, CSA                     | CHSPCHSR4P                                      |
| CHSP Ultra                | 120/240                   | L, L, N, G       | 70,000 A per Phase                      | 400                    | —                                   | —                                                        | 150                                  | —                             | —                       | Indoor/Outdoor Enclosure<br>Flushmount Kit Available | UL 1449 (2nd Ed.), CSA                   | CHSPULTRA                                       |
| CHSP - Field Retrofit Kit | 120/240                   | L, L, N, G       | 70,000 A per Phase                      | 400                    | —                                   | —                                                        | 150                                  | —                             | —                       | Mounts in any Type CHPC Loadcenter (see Table 4-6)   | UL 1449 (2nd Ed.), CSA                   | CHSPULTRALCRK                                   |
| SurgeTel                  | 230 Vdc Breakdown Voltage | —                | 10,000 A per Phase                      | —                      | 2 or 4 Pair UTP or Category 5 Lines | —                                                        | —                                    | —                             | —                       | Indoor Application                                   | UL 497A, CSA                             | DHW4PT                                          |
| SurgeCable                | 145 Vdc Breakdown Voltage | —                | 5,000 A per Phase                       | —                      | —                                   | Patented High Frequency "F" Connectors 2 Lines Protected | —                                    | —                             | < 15pf, Low Signal Loss | Indoor Application                                   | UL 6500, CSA                             | DCXCAB2                                         |
| Surge Ethernet            | 30 Vdc Breakdown Voltage  | —                | 300 A per Phase                         | —                      | 8 Wires (4 Pair)                    | —                                                        | —                                    | —                             | < 70pf                  | Indoor Application                                   | UL 497B                                  | DRJ45D30R                                       |
| Flushmount Kit            | N/A                       | N/A              | N/A                                     | N/A                    | N/A                                 | N/A                                                      | N/A                                  | N/A                           | N/A                     | N/A                                                  | N/A                                      | CHSPFMKIT                                       |
| SurgeTrap Micro           | 120                       | All Modes        | 12,000 A per Phase<br>210 Joules Total  | 330                    | No<br>Yes<br>No                     | No<br>No<br>Yes                                          | 150                                  | Up to 15 dB (Peak)            | —                       | Indoor Application                                   | UL 1449 (2nd Ed.), UL 1363, UL 497A, CSA | SGXMICROAC<br>SGXMICRONET<br>SGXMICROTV         |
| SurgeTrap Max             | 120                       | All Modes        | 20,000 A per Phase<br>420 Joules Total  | 330                    | No<br>Yes<br>No                     | No<br>No<br>Yes                                          | 150                                  | Up to 15 dB (Peak)            | —                       | Indoor Application                                   | UL 1449 (2nd Ed.), UL 1363, UL 497A, CSA | SGXMAXAC<br>SGXMAXNET<br>SGXMAXTV               |
| SurgeTrap Ultra           | 120                       | All Modes        | 40,000 A per Phase<br>1200 Joules Total | 330                    | No<br>Yes<br>No<br>Yes              | No<br>No<br>Yes<br>Yes                                   | 150                                  | Up to 35 dB (Peak)            | —                       | Indoor Application                                   | UL 1449 (2nd Ed.), UL 1363, UL 497A, CSA | SGXULTAC<br>SGXULTNET<br>SGXULTTV<br>SGXULT3WAY |
| Rack Mount Surge Strip    | 120                       | All Modes        | 84,000 A per Phase<br>1575 Joules Total | 330                    | No                                  | No                                                       | 150                                  | Yes                           | —                       | Indoor Application                                   | UL 1449 (2nd Ed.), UL 1363, UL 497A, CSA | SGXRM19B ①<br>SGXRM19BTL ①②                     |

① 15 and 20 ampere available.

② 15 ampere twist lock ac cord.

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| Surge Protector Plug-On Type BR, Single-Phase, 120/240 Vac  | 345                    | 370  | 500  | 545   | 8 (203.2)               | BRSURGE        |
| Surge Protector Plug-On Type CHQ, Single-Phase, 120/240 Vac | 345                    | 370  | 500  | 545   | 8 (203.2)               | CHQSA          |
| Surge Protector, 2-Pole Single-Phase, 3-Wire, 120/240 Vac   | 490                    | 640  | 980  | 1410  | 15 (381.0)              | CHSA01         |
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Table 4-2. Surge Protection Devices

| Description               | System Voltage            | Protection Modes | Surge Current Capacity                  | UL Let-through Voltage | Telephone Protection                | Coaxial Protection                                       | Maximum Continuous Operating Voltage | EMI/RFI Noise Rejection (L-N) | Capacitance             | Installation/Enclosures                              | Agency Approvals                         | Catalog Number                                  |
|---------------------------|---------------------------|------------------|-----------------------------------------|------------------------|-------------------------------------|----------------------------------------------------------|--------------------------------------|-------------------------------|-------------------------|------------------------------------------------------|------------------------------------------|-------------------------------------------------|
| CHSP Micro                | 120/240                   | L-G              | 20,000 A per Phase                      | 400                    | —                                   | —                                                        | 150                                  | —                             | —                       | Indoor/Outdoor Enclosure                             | UL 1449 (2nd Ed.), CSA                   | CHSPMICRO<br>CHSPMICRO230INT                    |
| CHSP Max                  | 120/240                   | L, L, N, G       | 50,000 A per Phase                      | 400                    | —                                   | —                                                        | 150                                  | —                             | —                       | Indoor/Outdoor Enclosure<br>Flushmount Kit Available | UL 1449 (2nd Ed.), CSA                   | CHSPMAX<br>CHSPMAX230INT                        |
| CHSP 3-Way                | 120/240                   | L, L, N, G       | 40,000 A per Phase                      | 400                    | 4 Pair, Terminal Mount              | Patented High Frequency "F" Connectors 1 Line Protected  | 150                                  | —                             | < 15pf, Low Signal Loss | Indoor/Flushmount Enclosure                          | UL 1449, UL497A, CSA                     | CHSPCHSR4P                                      |
| CHSP Ultra                | 120/240                   | L, L, N, G       | 70,000 A per Phase                      | 400                    | —                                   | —                                                        | 150                                  | —                             | —                       | Indoor/Outdoor Enclosure<br>Flushmount Kit Available | UL 1449 (2nd Ed.), CSA                   | CHSPULTRA                                       |
| CHSP - Field Retrofit Kit | 120/240                   | L, L, N, G       | 70,000 A per Phase                      | 400                    | —                                   | —                                                        | 150                                  | —                             | —                       | Mounts in any Type CHPC Loadcenter (see Table 4-6)   | UL 1449 (2nd Ed.), CSA                   | CHSPULTRALCRK                                   |
| SurgeTel                  | 230 Vdc Breakdown Voltage | —                | 10,000 A per Phase                      | —                      | 2 or 4 Pair UTP or Category 5 Lines | —                                                        | —                                    | —                             | —                       | Indoor Application                                   | UL 497A, CSA                             | DHW4PT                                          |
| SurgeCable                | 145 Vdc Breakdown Voltage | —                | 5,000 A per Phase                       | —                      | —                                   | Patented High Frequency "F" Connectors 2 Lines Protected | —                                    | —                             | < 15pf, Low Signal Loss | Indoor Application                                   | UL 6500, CSA                             | DCXCAB2                                         |
| Surge Ethernet            | 30 Vdc Breakdown Voltage  | —                | 300 A per Phase                         | —                      | 8 Wires (4 Pair)                    | —                                                        | —                                    | —                             | < 70pf                  | Indoor Application                                   | UL 497B                                  | DRJ45D30R                                       |
| Flushmount Kit            | N/A                       | N/A              | N/A                                     | N/A                    | N/A                                 | N/A                                                      | N/A                                  | N/A                           | N/A                     | N/A                                                  | N/A                                      | CHSPFMKIT                                       |
| SurgeTrap Micro           | 120                       | All Modes        | 12,000 A per Phase<br>210 Joules Total  | 330                    | No<br>Yes<br>No                     | No<br>No<br>Yes                                          | 150                                  | Up to 15 dB (Peak)            | —                       | Indoor Application                                   | UL 1449 (2nd Ed.), UL 1363, UL 497A, CSA | SGXMICROAC<br>SGXMICRONET<br>SGXMICROTV         |
| SurgeTrap Max             | 120                       | All Modes        | 20,000 A per Phase<br>420 Joules Total  | 330                    | No<br>Yes<br>No                     | No<br>No<br>Yes                                          | 150                                  | Up to 15 dB (Peak)            | —                       | Indoor Application                                   | UL 1449 (2nd Ed.), UL 1363, UL 497A, CSA | SGXMAXAC<br>SGXMAXNET<br>SGXMAXTV               |
| SurgeTrap Ultra           | 120                       | All Modes        | 40,000 A per Phase<br>1200 Joules Total | 330                    | No<br>Yes<br>No<br>Yes              | No<br>No<br>Yes<br>Yes                                   | 150                                  | Up to 35 dB (Peak)            | —                       | Indoor Application                                   | UL 1449 (2nd Ed.), UL 1363, UL 497A, CSA | SGXULTAC<br>SGXULTNET<br>SGXULTTV<br>SGXULT3WAY |
| Rack Mount Surge Strip    | 120                       | All Modes        | 84,000 A per Phase<br>1575 Joules Total | 330                    | No                                  | No                                                       | 150                                  | Yes                           | —                       | Indoor Application                                   | UL 1449 (2nd Ed.), UL 1363, UL 497A, CSA | SGXRM19B ①<br>SGXRM19BTL ①②                     |

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