

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 CHSPMICRO230INT
CHSP Max	120/240	L, L, N, G	50,000 A per Phase	400	—	—	150	—	—	Indoor/Outdoor Enclosure Flushmount Kit Available	UL 1449 (2nd Ed.), CSA	CHSPMAX 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 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 210 Joules Total	330	No Yes No	No No Yes	150	Up to 15 dB (Peak)	—	Indoor Application	UL 1449 (2nd Ed.), UL 1363, UL 497A, CSA	SGXMICROAC SGXMICRONET SGXMICROTV
SurgeTrap Max	120	All Modes	20,000 A per Phase 420 Joules Total	330	No Yes No	No No Yes	150	Up to 15 dB (Peak)	—	Indoor Application	UL 1449 (2nd Ed.), UL 1363, UL 497A, CSA	SGXMAXAC SGXMAXNET SGXMAXTV
SurgeTrap Ultra	120	All Modes	40,000 A per Phase 1200 Joules Total	330	No Yes No Yes	No No Yes Yes	150	Up to 35 dB (Peak)	—	Indoor Application	UL 1449 (2nd Ed.), UL 1363, UL 497A, CSA	SGXULTAC SGXULTNET SGXULTTV SGXULT3WAY
Rack Mount Surge Strip	120	All Modes	84,000 A per Phase 1575 Joules Total	330	No	No	150	Yes	—	Indoor Application	UL 1449 (2nd Ed.), UL 1363, UL 497A, CSA	SGXRM19B ① SGXRM19BTL ①②

① 15 and 20 ampere available.

② 15 ampere twist lock ac cord.

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Surge Protector Plug-On Type CHQ, Single-Phase, 120/240 Vac	345	370	500	545	8 (203.2)	<b>CHQSA</b>
Surge Protector, 2-Pole Single-Phase, 3-Wire, 120/240 Vac	490	640	980	1410	15 (381.0)	<b>CHSA01</b>
Surge Protector, 3-Pole Single-Phase, 4-Wire, 120/240 Vac	1700	2100	2510	3800	15 (381.0)	<b>CHSA03</b>

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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	<b>CHSPMICRO</b> <b>CHSPMICRO230INT</b>
CHSP Max	120/240	L, L, N, G	50,000 A per Phase	400	—	—	150	—	—	Indoor/Outdoor Enclosure Flushmount Kit Available	UL 1449 (2nd Ed.), CSA	<b>CHSPMAX</b> <b>CHSPMAX230INT</b>
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	<b>CHSPCHSR4P</b>
CHSP Ultra	120/240	L, L, N, G	70,000 A per Phase	400	—	—	150	—	—	Indoor/Outdoor Enclosure Flushmount Kit Available	UL 1449 (2nd Ed.), CSA	<b>CHSPULTRA</b>
CHSP - Field Retrofit Kit	120/240	L, L, N, G	70,000 A per Phase	400	—	—	150	—	—	Mounts in any Type CHPC Loadcenter (see <b>Table 4-6</b> )	UL 1449 (2nd Ed.), CSA	<b>CHSPULTRALCRK</b>
SurgeTel	230 Vdc Breakdown Voltage	—	10,000 A per Phase	—	2 or 4 Pair UTP or Category 5 Lines	—	—	—	—	Indoor Application	UL 497A, CSA	<b>DHW4PT</b>
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	<b>DCXCAB2</b>
Surge Ethernet	30 Vdc Breakdown Voltage	—	300 A per Phase	—	8 Wires (4 Pair)	—	—	—	< 70pf	Indoor Application	UL 497B	<b>DRJ45D30R</b>
Flushmount Kit	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<b>CHSPFMKIT</b>
SurgeTrap Micro	120	All Modes	12,000 A per Phase 210 Joules Total	330	No Yes No	No No Yes	150	Up to 15 dB (Peak)	—	Indoor Application	UL 1449 (2nd Ed.), UL 1363, UL 497A, CSA	<b>SGXMICROAC</b> <b>SGXMICRONET</b> <b>SGXMICROTV</b>
SurgeTrap Max	120	All Modes	20,000 A per Phase 420 Joules Total	330	No Yes No	No No Yes	150	Up to 15 dB (Peak)	—	Indoor Application	UL 1449 (2nd Ed.), UL 1363, UL 497A, CSA	<b>SGXMAXAC</b> <b>SGXMAXNET</b> <b>SGXMAXTV</b>
SurgeTrap Ultra	120	All Modes	40,000 A per Phase 1200 Joules Total	330	No Yes No Yes	No No Yes Yes	150	Up to 35 dB (Peak)	—	Indoor Application	UL 1449 (2nd Ed.), UL 1363, UL 497A, CSA	<b>SGXULTAC</b> <b>SGXULTNET</b> <b>SGXULTTV</b> <b>SGXULT3WAY</b>
Rack Mount Surge Strip	120	All Modes	84,000 A per Phase 1575 Joules Total	330	No	No	150	Yes	—	Indoor Application	UL 1449 (2nd Ed.), UL 1363, UL 497A, CSA	<b>SGXRM19B</b> ① <b>SGXRM19BTL</b> ①②

① 15 and 20 ampere available.

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