

Surge

Protection



**First a FLASH,
then THUNDER, then BANG!**

Your air conditioner just Blew Up!

LIGHTNING is the most obvious source of a power surge, but not the only culprit. Utility Events, Cycling of Air Conditioners, Generators, Motors and Appliances can also produce damaging surges. Protect your equipment with SUPCO's Surge Arrestors. With a full product line, we can protect all of your equipment.



BENEFITS

- Easy Installation at Disconnect or Panel
- Weatherproof Housing
- Indicator Light on some models for Surge Protection Present

VALUE ADDED CONTRACTOR BENEFITS:

- Promote Additional Profits
- Reduce Callbacks
- Keep Equipment Running

*** Contact us for a FREE Contractor Marketing Kit**

SEALED UNIT PARTS CO., INC.
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SCM1, SCM & SCMPPLUS Surge Arrestors

SURGE PROTECTION FOR:

- Air Conditioners
- Refrigeration Systems
- Appliances
- Furnaces
- Air Handlers
- Heat Pumps
- Motors
- Pumps
- Electronics

SCM1

SCM

SPECIFICATIONS

	SCM1	SCM	SCM PLUS
Service Voltage	120/240 Volt, Single Phase	120/240 Volt, Single Phase	120/240 Volt, Single Phase
Max. Surge Current	26,000 Amps	50,000 Amps	100,000 Amps
Max. Energy Dissipation	320 Joules	420 Joules	840 Joules
AC Protection Modes	L-L, L-G	L-L, L-G	L-L, L-G
Response Time	< 5ns Installed < 1ns Component Level	< 5ns Installed < 1ns Component Level	< 5ns Installed < 1ns Component Level
Operating Frequency	0 – 400 Hz.	0 – 400 Hz.	0 – 400 Hz.
Diagnostics	N/A	N/A	Indicator light – Surge Suppression Present
Class	Secondary Surge Arrestor, Cat C	Secondary Surge Arrestor, Cat C	Secondary Surge Arrestor, Cat C
Installation Point	Electrical Panel, Electrical Disconnect	Electrical Panel, Electrical Disconnect	Electrical Panel, Electrical Disconnect
Connection Method	Hardwired parallel	Hardwired parallel	Hardwired parallel
Agency Approvals	UL, cUL, ANSI/IEEE C62.11	UL, cUL, ANSI/IEEE C62.11	UL, cUL, ANSI/IEEE C62.11
Housing	High Impact Plastic	High Impact Plastic	High Impact Plastic
Housing Size	2 in. x 2 in.	3 in. x 2.25 in. x.75 in.	3 in. x 2.25 in. x.75 in.
Weight	1.0 lbs	0.6 lbs	0.6 lbs
Warranty	Limited Lifetime	Limited Lifetime	Limited Lifetime



SCM

DTK-208, DTK-240, & 480-3CM 3 Phase Surge Arrestors

- 208, 240, 480 volt three phase
- 50,000 amp surge current, per phase
- Limited lifetime warranty

SPECIFICATIONS

	DTK-208-3CM	DTK-240-3CM	DTK-480-3CM
Service Voltage	120/240 Volt, Single Phase	250VAC 3 phase	480VAC 3 phase
Max. Surge Current	50,000 Amps	50,000 Amps	50,000 Amps
Continuous Current	Unlimited	Unlimited	Unlimited
Max. Energy Dissipation	320 Joules	660 Joules	1740 Joules
MCOV	130VAC (L-G) 260 VAC (L-L)	250VAC (L-G)	510VAC (L-G)
AC Protection Modes	L-L, L-G	L-L, L-G	L-L, L-G
Response Time	< 5ns Installed, < 1ns Component Level	< 5ns Installed, < 1ns Component Level	< 5ns Installed, < 1ns Component Level
Operating Frequency	0 – 400 Hz.	0-400 Hz	0-400 Hz
Class	Secondary Surge Arrestor, Cat C	Secondary Surge Arrestor, Cat C	Secondary Surge Arrestor, Cat C
Installation Point	Meter base, main panel, disconnect or weatherhead	Meter base, main panel, disconnect or weatherhead	Meter base, main panel, disconnect or weatherhead
Connection Method	Hardwired parallel	Hardwired parallel	Hardwired parallel
Agency Approvals	UL-OWHX, cUL, ANSI/IEEE C62.11	UL-OWHX, cUL, ANSI/IEEE C62.11	UL-OWHX, cUL, ANSI/IEEE C.62.11
Housing	High Impact Plastic	High Impact Plastic	High Impact Plastic
Housing Size	2 in. x 2 in.	3 in. x 2.25 in. x.75 in.	3 in. x 2.25 in. x.75 in.
Weight	1.0 lbs	0.61 lbs	0.61 lbs
Warranty	Limited Lifetime	Limited Lifetime	Limited Lifetime



DTK-HW SERIES Single Circuit Surge Protector

- Available for 120 volt, 240 volt and 120/240 volt application
- Use Indoors or outdoors to protect fire/security systems, gate motors, lab equipment, PLCs, etc.
- Diagnostic LED shows unit function, ground present, and power on

DTK-120HW Hardwire 120 Volt

- LED indicates ground presence and function
- UL1449 - Dedicated AC circuit
- Ideal for Fire Alarm and PBX applications



DTK-120/240SA Heavy Duty 120/240 Volt Secondary Arrestor

- Designed for meter base or panel installation
- Excellent RFI/EMI filtering
- Unique "ground quality" diagnostic circuit



DTK-120S15A 120 Volt Critical Load Surge Protector

- Series/Hybrid circuit design guarantees maximum performance
- User replaceable fusing means less downtime
- "The Best" for PLCs, automation, controls and OEM applications
- Features: Fused Protection: In-line replaceable fuse (15a slow blow) Technology: Multistage hybrid, MOV



DTK-WH5 Whole House Kit

- Complete residential package with AC power, coaxial and 2 telephone line protection
- Most comprehensive and cost effective home/home office protection on the market
- Full diagnostics on main AC panel unit
- This kit includes a DTK120/240HD Series II, DTK-2LVLPSCP-RUV and a DTK-VSP-A

SPECIFICATIONS

	DTK-120HW	DTK-120/240SA	DTK120S15A	DTK-WH5
Service Voltage	110/125 VAC	120/240 VAC	120 VAC	N/A
Max. Surge Current	22,500 Amps	200,000 Amps	39,000 Amps	N/A
Continuous Current	Unlimited (Parallel Installation)	Unlimited	15 Amps	N/A
Max. Energy Dissipation	190 Joules	2640 Joules	480 Joules	N/A
MCOV	130 VRMS/185VPK	250VAC L-N, 500VAC L-L	130 VRMS/185 VPK	N/A
AC Protection Modes	L-N, L-G, N-G	L-G, L-L	L-N, L-G, N-G	N/A
Response Time	< 5ns Installed, < 1ns Component Level	< 5ns	< 5ns	N/A
Operating Frequency	50/60 Hz	0-400 Hz	50/60 Hz	N/A
Diagnostics	Indicator Light	Indicator lights for suppression & available ground	Indicator light, loss of ground	N/A
EMI/RFI Noise Filtering	Yes	up to 50db 100KHz-100MHz	Yes	N/A
Suppressed Voltage	600V	N/A	400V	N/A
Operating Temperature	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	N/A
Operating Environment	Outdoor Use; Out of direct weather (5%-100% non-condensing)	N/A	N/A	N/A
MTBF	6,000,000 Hours; MIL - 217H/Bellcore method	N/A	N/A	N/A
Class	AC Hard-Wired Transient Voltage Surge Suppressor	Secondary Surge Arrestor Class C	AC Hard-Wired inline transient voltage surge suppressor	AC Hard-Wired Transient Voltage Surge Suppressor
Installation Point	Single Circuit	Meter base, main panel, disconnect or weatherhead	Single circuit, enclosure or control panel	Electrical panel, electrical disconnect
Connection Method	Hardwired parallel	Hardwired parallel	Hardwire series connection, Terminal Block	Hardwire
Agency Approvals	UL, cUL 1449, IEEE C62.41B	UL OWHX, cUL ANSI/IEEE C62.11	N/A	N/A
Housing	High Impact Plastic	NEMA 4/4X	Flame Retardant ABS	N/A
Housing Size		5.25" X 5.25" X 2.25"	5.5" X 3.3" X 2.1"	N/A
Weight	0.18 lbs	1.45 lbs	0.55lbs	1.7 lbs
Warranty	Limited Lifetime	Limited Lifetime	Limited Lifetime	Limited Lifetime

*** Any other DTK Surge Arrestor
Available by Specil Order.**



DTK-LVLP Series

Low Voltage Applications

- Available in 1, 2, 3, and 4 pairs
- UL497B listed and UL497A models available
- Specify desired clamping voltage; 7, 15, 27, 52, 75, 95, 130
- Hardwire Series Connection

Model	# of wires protected	130 VRMS	95 VRMS	75 VRMS	52 VRMS	27 VRMS	15 VRMS	7 VRMS
DTK-1LVLP	2 wires	RUV	SGR	SPK	OPX	LV	X	D
DTK-2LVLP	4 wires	RUV	SGR	SPK	OPX	LV	X	D
DTK-3LVLP	6 wires	RUV	SGR	SPK	OPX	LV	X	D
DTK-4LVLP	8 wires	RUV	SGR	SPK	OPX	LV	X	D

Example: DTK-1LVLP-SCP*-LV (30V DC, 2 wire) *Note: SCP adds over current protection.

HVAC/R Low Voltage Controls Protection

Residential Applications

DTK-1LVLP-LV (24v AC)	Load side of 24v AC transformer
DTK-1LVLP-D (5v DC)	thermostat lines, controls, sensors

Commercial Applications

DTK-1-4 LVLP-SCP-RUV (130v DC)	Telephone lines at master/control Communications Panel
DTK-1-4 LVLP-LV (24v AC/DC) (SCP available)	4-20 milliamp loop circuits for monitoring pressure, humidity, air quality, air flow...
DTK-1-4 LVLP-D (7v DC)	Communication circuits, RS485 Networks, temperature, air and liquid monitoring controls

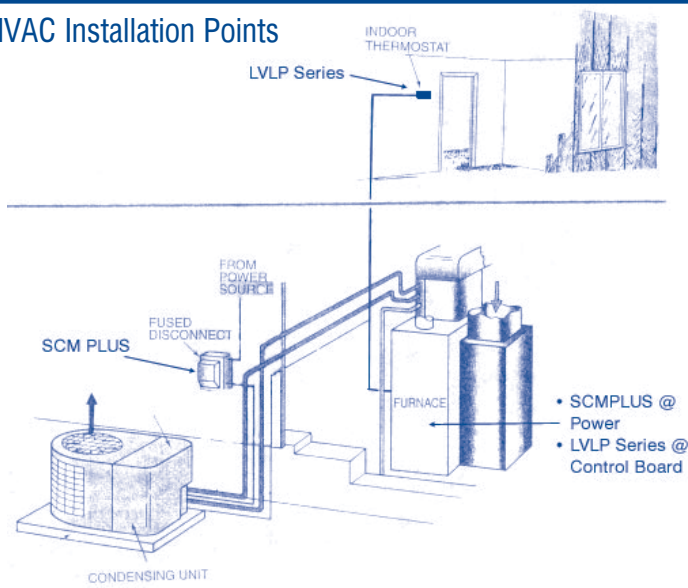
*Note: these units are only examples of the many applications. Voltages may vary between different manufacturers. Please call SUPCO Technical Support Representative for specific applications.

AIR CONDITIONING & HEAT PUMP SURGE PROTECTION APPLICATIONS

Equipment Size	Transient Potential	Part No.
Up to 5 Tons	Low to Moderate (Degrading arc fault Potential)	SCMPLUS DTK-3CM Series
5 Tons to 10 Tons	Moderate (Degrading/ Disruptive arc fault Potential)	DTK-120/240-SA DTK-3CM Series
10 Tons to 15 Tons	High (Disruptive arc fault Potential)	DTG Series* (Choose appropriate voltage configuration)
15 Tons to 20 Tons	High (Disruptive/ Destructive arc fault Potential)	DTGX Series* (Choose appropriate voltage configuration)
Above 20 Tons	Very High (Destructive arc fault Potential)	DTGXL Series* (Choose appropriate voltage configuration)

* Note: These items are special order. Please call SUPCO for more information (800) 333-9125

HVAC Installation Points



*Any other DTK Surge Arrestor Available by Specil Order.

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