

# SURGE PROTECTION DEVICE FEATURES

## Industrial Grade Surge Protection Devices

**LEVITON'S SURGE PROTECTIVE DEVICES (SPD'S) ARE DESIGNED TO REDUCE THE RANDOM ENERGY SURGES OF VOLTAGE TRANSIENTS AND ELECTRICAL NOISE ON THE POWER SUPPLY LINE.**

Volatile transients and noise are present in utility power lines, data networks, telephone lines, closed circuit and cable tv feeds, and any other power or control lines connected to electronic equipment.

Leviton's Surge Protection Devices can be used individually or as part of a coordinated application strategy, called Network Protection, to protect sensitive electronic equipment, in industrial, commercial and residential locations, from the stress and degradation inflicted by voltage transients. Leviton Surge Protection Devices are listed to UL 1449 Second Edition Standards.

*Leviton's outstanding Surge Protection Devices divert damaging voltage transients, or surges, away from electronic equipment. Transients are diverted away from sensitive microcircuitry, providing protection against catastrophic failure, costly downtime and data disruptions.*

### Features and Benefits

- Provides seven-mode protection
- User-replaceable modules
- Real-time diagnostics monitor power and suppression status for each mode
- Diagnostic display panel of 74000/75000 units indicates "Fault", "Alert" and "Protection" status
- Provides surge magnitude, time and date of each surge event
- Surge event history downloadable via RS-232 connection



74120-7M3



**Panel Mounted**  
Provides complete protection on all phases even if one module fails; modular design allows easy replacement of modules. NC, NO contacts for remote status indication.  
**57120-M3 shown**



**Receptacles**  
15-20 Amp single, duplex and four-in-one versions with 3-level MOV phase to neutral, phase to ground and neutral to ground protection.  
**8280-IGB shown**



**Stand-Alone Low-Voltage SPD**  
Provides surge protection for low-voltage data and communications lines.  
**5350-PT8 shown**



**Plug Strips**  
Available in a variety of grades, its real time diagnostics monitor power and suppression status.  
**5300-PS shown**



**PDU**  
Mounts on 19" equipment rack; available with or without rocker-style ON/OFF switch; Resettable circuit breaker protects against overloading and power supply failure.  
**5500-190 shown**



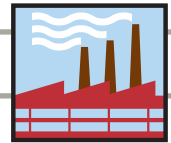
**UPS**  
New product line offers the latest technology and features available in Uninterruptible Power Supply devices.  
**U1000-AKP shown**



**Communication Modules**  
Provide surge protection for DC-powered low-voltage data network products.  
**3803-485 shown**



**Multi-Phase Panel Protector**  
Provides multiple-phase surge protection; 3-phase units are suitable for WYE and Delta AC systems. NC, NO contacts for remote status indication.  
**42120-D43 shown**

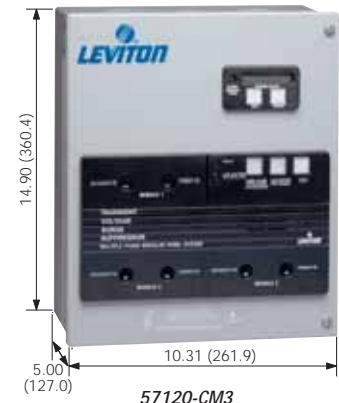


### 57000 Series Branch Panel Mounts

DESCRIPTION	CAT. NO. W/O SURGE COUNTER	CAT. NO. W/ SURGE COUNTER	VOLTAGE RATING	MODULE
3-Phase WYE, 4-Wire & Ground	57120-M3	57120-CM3	120/208V AC	(3) 120 (1) 8120-GN
3-Phase WYE, 7-Mode, Integral Disconnect, 4-Wire & Ground	57120-M3S	57120-C3S	120/208V AC	(3) 120-M3S (1) 8120-GN
3-Phase WYE, 4-Wire & Ground	57220-IM3	—	220/380V AC	(3) 220 (1) 8250-GN
3-Phase Delta, 3-Wire & Ground	57240-DM3	—	240V AC	(3) 7240
3-Phase WYE, 4-Wire & Ground	57277-M3	57277-CM3	277/480V AC	(3) 7277 (1) 8320-GN
3-Phase WYE, 7-Mode, Integral Disconnect, 4-Wire & Ground	57277-M3S	57277-C3S	277/480V AC	(3) 7277-M3S (1) 8320-GN
3-Phase WYE, 4-Wire & Ground	57346-M3	—	346/600V AC	(3) 7346 (1) 8385-GN
3-Phase WYE, 4-Wire & Ground	57347-M3S	—	347/600V AC	(3) 7347 (1) 8385-GN
3-Phase Delta, 3-Wire & Ground	57480-DM3	—	480V AC	(3) 7480
3-Phase Delta, 3-Wire & Ground	57600-DM3	—	600V AC	(3) 7600



57120-M3



57120-CM3

### Performance Specifications: 57000 Series

CAT. NO.	MCOV	UL 1449 (2nd Ed) IMPULSE (6kV/500A)				MAX. SURGE CURRENT in KA (Test w/8x20µs wave)			NOISE REJECTION
		L-N	L-G	N-G	L-L	L-N + L-G = per phase			
57120-M3 57120-CM3	150V AC	400	800	400	800	150	—	150	-20 to -40 dB (@5K-10MHz)
57120-M3S 57120-C3S	150V AC	400	500	400	700	100	100	100	-20 to -40 dB (@5K-10MHz)
57220-IM3	250V AC	600	1200	600	1200	150	—	150	-20dB to -40 dB (@5K-10MHz)
57240-DM3	250V AC	—	—	—	700	L-L: 150			-20dB to -40 dB (@5K-10MHz)
57277-M3 57277-MC3	320V AC	800	1800	800	1800	150	—	150	-20dB to -40 dB (@5K-10MHz)
57277-M3S 57277-C3S	320V AC	900	1000	800	1500	100	100	200	-20dB to -40 dB (@5K-10MHz)
57346-M3	385V AC	1000	2000	1000	2000	150	—	150	-20dB to -40 dB (@5K-10MHz)
57480-DM3	550V AC	—	—	—	1500	L-L: 150			-20dB to -40 dB (@5K-10MHz)
57600-DM3	680V AC	—	—	—	1800	L-L: 150			-20dB to -40 dB (@5K-10MHz)
57347-M3S	390V AC	1000	1000	1000	2000	100	100	200	-20dB to -40 dB (@5K-10MHz)

### Remote Supervisor

DESCRIPTION	CAT. NO.
Remote Supervisor	52000-RS

#### SPECIFICATIONS AND FEATURES

##### 57000 Series

- For installation at main distribution panels
- Hybrid suppression circuitry with built-in redundancy provides complete protection on all phases even if one module fails
- Modular design allows easy replacement of modules with the use of tools & without the need to shut down AC system power
- Provides Normal Mode (phase to neutral) & Common Mode (neutral to ground) protection for WYE-configured 3-phase AC systems
- Dry contacts for remote monitoring

##### 57000 Series

- "Series connection" parallel operated (Kelvin/feed-through) rated for 100 Amps maximum continuous line current using #3 AWG conductors
- Optically coupled remote-monitoring port allows use of the optional Remote Supervisor (Cat. No. 52000-RS)

- Dual-stage fuse protection for primary & secondary surge suppression circuits
- Housed in NEMA-12 case with hinged cover, surface or flush mountable
- Noise rejection -20 to -40dB

##### Remote Supervisor

- For use with any Cat. No. 57000 or 52000 panel-mounted SPD
- Monitors up to 6 (series alarm daisy-chained) panel-mounted SPDs
- Single key-hole surface mounting using just 2 screws
- Annunciator light shows steady GREEN when monitored panel-mounted SPDs are normal, & FLASHING RED in case of protection failure or power interruption
- 75dB acoustic beep tone draws attention to a potential failure
- Jack provided for simple connection to input port via #20 to #22 two-conductor twisted pair, with a wire run up to 5,000 ft. in length

#### TESTING AND CODE COMPLIANCE

##### 57000 Series

- UL 1449 Listed Edition 2.5 (File #E-146315)
- CSA Certified (File #LR-94773)
- 200 kA rated (M3S versions rated 100kA)
- Meets ANSI/IEEE C62.41 & C62.45 Categories A, B & C
- UL 945-V flame retardant thermoplastic (Front Bezel)
- Backed by a Limited 10-Year Warranty

#### MATERIAL CHARACTERISTICS

Operating Temperature: -10°C to 60°C  
Storage Temperature: -20°C to 85°C