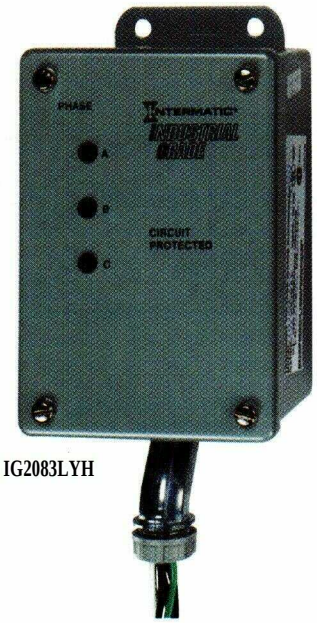


IG2083LYH

Commercial/industrial Hardwired Surge Deulces

Applications/Features

- Designed for installation on panelboards and sub-panels up to 400 amp capacity
- Provides protection between line-line, line-neutral, line-ground and neutral-ground
- Internal fuse(s) provide overcurrent protection
- 100,000 Amp interrupting capacity fuse for each phase
- LED indicator for each phase provides surge protection status
- Housed in a metal NEMA 12 enclosure
- 30" color coded 10 gauge wire leads
- 5 year product warranty
- 7.5"H x 4.25"W x 4.0"D
- UL listed to UL1449, 2nd edition
- 5.5 Ibs. in weight

IG120ILH
- 120V single phase
- 2 wire plus ground
- Foot Mounted NEMA 12 enclosure

IG2401LH
- 120/240V single phase 3 wire plus ground
- Foot mounted NEMA 12 enclosure

IG2083LYH
- 120/208V 3 phase WYE 4 wire plus ground
- Foot mounted NEMA 12 enclosure

IG1FMP-H
- Flushmount plate for all models

IG2403LDH
- 120/240V3phase
- High Leg Delta,
- 4 wire plus ground
- Foot mounted NEMA 12 enclosure

IG4803LYH
- 277/480V 3 phase WYE, 4 wire plus ground
- Foot mounted NEMA 12 enclosure

IG4803LDH
- 480V 3 phase Delta 3 wire plus ground
- Foot mounted NEMA 12 enclosure

See page 5 for IEEE Location Categories

Model	Service Voltage	Maximum Continuous Operating Voltage	Phases	Number of 30" Leads	Wire Configuration	Protection Modes	Surge Current Ratings		UL 1449 damping Voltages			
							Per Phase	Total System	L-N	L-G	N_{TO}	L_{TL}
IG1201LH	120	150	1	3	L, N, G	3	39.000A	39,000A	500	500	400	N/A
IG2401LH	120/240	150/275	2	4	L1.L2, N, G	6	52,000A	78,000A	400	500	400	700
IG2083LYH	120 / 208	150/250	3	5	LI. L2, L3, N, G	10	65.000A	130.000A	500	500	400	700
IG2403LDH	120 / 240	150/275	3	5	L1, L2, L3,N, G	10	65,000A	130.000A	500/700	500/700	500	700
IG4803LYH	277 / 480	320 / 550	3	5	LI. L2. L3, N, G	10	65.000A	130,000 A	800	800	500	1500
IG4803LDH	480	550	3	4	LI. L2, L3. G	6	52,000A	117,000A	N/A	1 500	N/A	1 500

*L-G

BUTE RIVIATIC® iTM

MTP multi-Tier Protection

from power surges where you work and Hue.

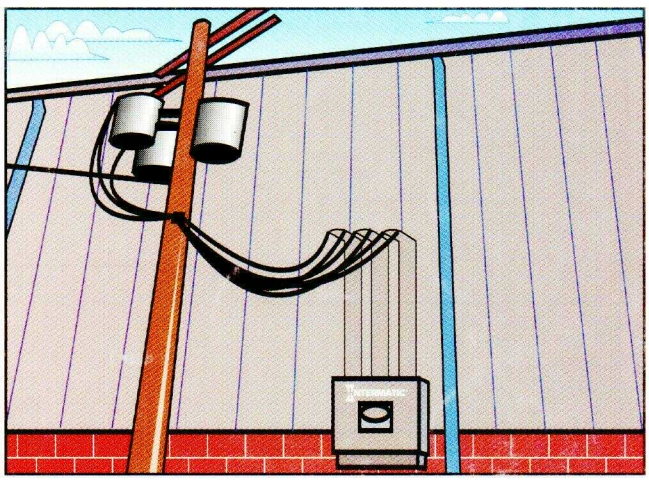
Surge Protection Your Electronic Devices Demand.

You can rely on Intermalic to provide reliability, durability and quality in every surge protection device. By using the Intermatic "MTP" package of products you join a growing number of satisfied customers.

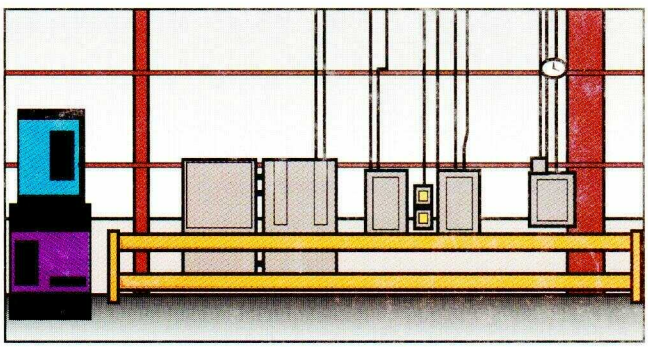
Whether it's at work or home, power surges can happen at any time. To protect your costly and sensitive electronic and electrical equipment, Intermatic recommends **Multi-Tier Protection** utilizing a staged Suppression Network.

First, hard-wired panel protection at your service entrance guards against external surges. A second level of protection is recommended at 100 amp and 225 amp panel board locations. Thirdly, point-of-use products guards against internal surses.

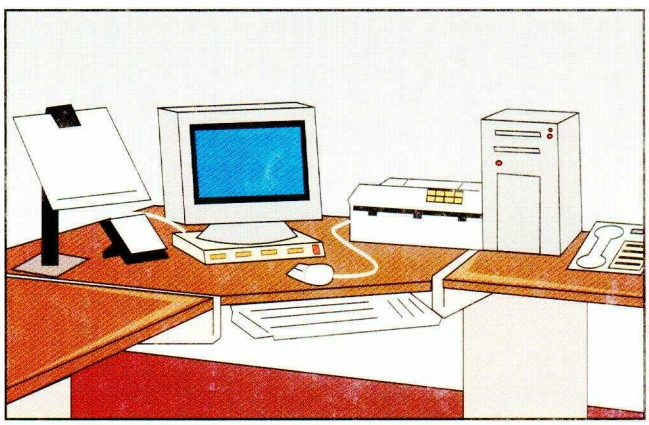
To keep your important electric and electronic equipment in perfect balance, rely on Intermatic's **MTP™** surge protection. Contact Intermatic today at (815) 675-2321 for all of your surge protection needs.



Tier I. Service Entrance Panel Protection: Protect against sursies before they enter the main panc!.



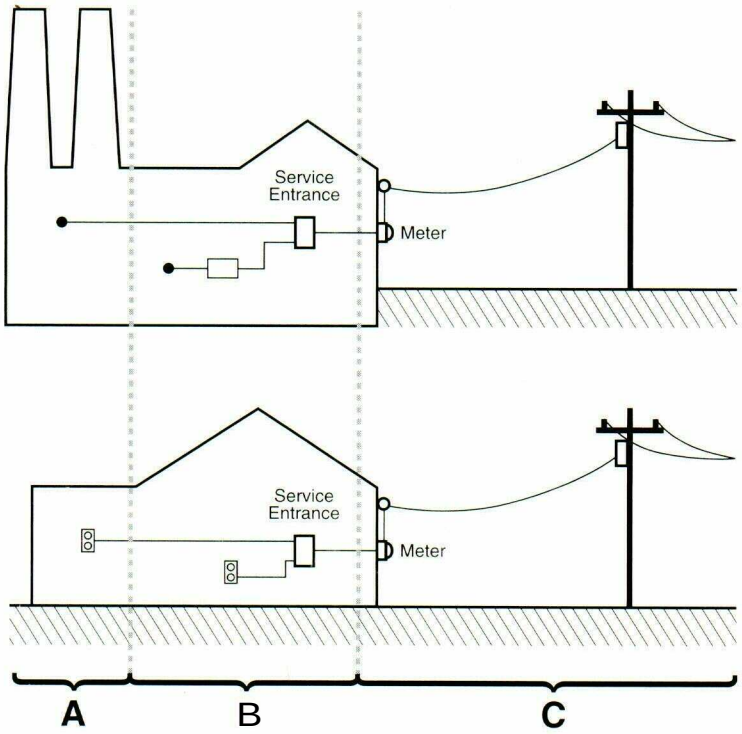
Tier II. Branch Panel Protection: Protect the branch tier *from* internal/external sursies.



Tier III. Point-of-Use Protection: Protect against internal and external surges on the AC. phone or coax lines.

ANSI / IEEE Location Categories

ANSI/IEEE C62.41 is the recognized American National Standard for establishing the surge withstand capability of equipment connected to utility power circuits in residential, commercial or industrial applications.



Category A

- Outlets and long branch circuits.
- All outlets at more than 10m (30 ft.) from Category B.
- All outlets at more than 20m (60 ft.) from Category C.

Category B

- Feeders and short branch circuits.
- Distribution panel devices.
- Bus and feeder lines in industrial plants.
- Heavy appliance outlets with "short" connections to service entrance.
- Lighting systems in large buildings.

Category C

- Outside and service entrance.
- Service drop from pole to building.
- Run between meter and panel.
- Overhead line to detached building.
- Underground line to well pump.

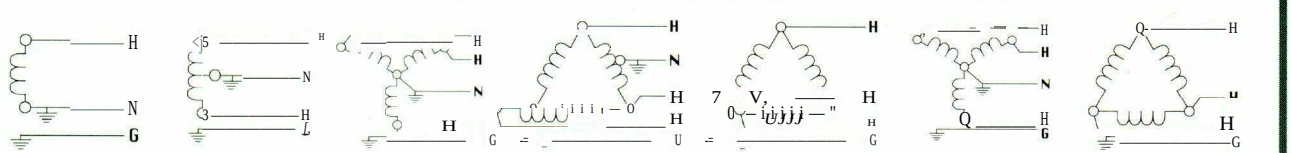
The following values and waveforms are recognized within Categories A, B and C. Location Category C is the Outside and Service Entrance and the harshest surge environment. Combination Wave or Impulses are found in Category B and C locations, while 100 kHz Ring Wave events are found in Category A and B locations.

Location Category	System Exposure	Voltage (Peak) 12 x 50 microsec.	Current (Peak) 8 x 20 microsec.
C3	High	20 kV	10 kA
C2	Medium	10 kV	5kA
Cl	Low	ft kV	3 kA
B3	High	6kV	3 kA
B2	Medium	4 kV	2kA
Bl	Low	2 kV	1 kA

Location Category	System Exposure	0.5(1 sec. - 100 kHz. Ring Wave	
|83	High	6kV	500 Amp
|82	Medium	4kV	330 Amp
|3 1	Low	2kV	170 Amp
.A3	High	6kV	200 Amp
.A2	Medium	4kV	130 Anip
.\ 1	Low	2 kV	70 Amp

(Source: ANSI/IEEE C62.41 - 1991)

Wiring Diagram Choices for Common Voltage Configurations



120V Single Phase 3 wire plus Ground

120/240 V Single Phase 3 wire plus Ground (Split Phase)

120/208 V 3 Phase Wye 4 wire plus Ground

120/240 V 3 Phase High Leg Delta 4 wire plus Ground

240 V 3 Phase Delta 3 wire plus Ground

277/480 V 3 Phase Wye 4 wirc plus Ground

480 V 3 Phase Delta 3 wire plus Ground

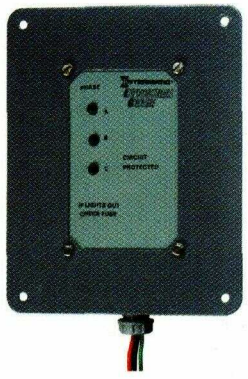
IMTERMATIC®
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— Panelboard or Sub-Panel Applications —
EH Series

Enhanced Hardwired Surge Devices



IG4803DEH



An easy-to-use adapter plate is available for flush mounting of all "LH" and "EH" Series Protectors.
Order part number IG1FMP-H

Applications/Features

- Designed to handle Category "B" panelboards and sub-panel applications up to 400 Amp capacity
- Dual components provide twice the protection of a comparable "LH" model listed on following page
- Internal fuse(s) provide overcurrent protection
- 100,000 amp interrupting capacity fuse for each phase
- Provides protection between line-line, line-neutral, line-ground and neutral-ground modes
- LED indicator for each phase provides surge protection status
- 30" color coded 10 gauge wire leads
- Housed in a metal NEMA 12 enclosure
- 5 year product warranty
- 7.5"H x 4.25"W x 4.0"D
- UL listed to UL1449, 2nd edition
- 5.5 Ibs. in weight

IG1201EH
- 120V single phase, 2 wire plus ground
- NEMA 12 enclosure

IG2401EH
- 120/240V single phase, 3 wire plus ground
- Foot-mounted NEMA 12 enclosure

IG2083YEH
- 120/208V 3 phase WYE, 4 wire plus ground
- Foot-mounted NEMA 12 enclosure

IG1FMP-H
- Flushmount plate for enhanced Commercial/Industrial models

IG2403DEH
- 120/240 V 3 phase High Leg Delta, 4 wire plus ground
- Foot-mounted NEMA 12 enclosure

IG4803YEH
- 277/480V 3 phase WYE, 4 wire plus ground
- Foot mounted NEMA 12 enclosure

IG4803DEH
- 480V 3 phase Delta, 3 wire plus ground
- Foot-mounted NEMA 12 enclosure

See page 5 for IEEE Location Categories

Model	Service Voltage	Maximum Continuous Operating Voltage	Phase	Number of 30" Leads	Wire Configuration	Protection Modes	Surge Current Ratings		UL 1449 Clamping Voltages			
							Per Phase	Total System	L-N	L-G	N-G	L-L
Id 1201 EH	120	150	1	3	L. N.G	3	78,000 A	78,000 A	500	500	500	N/A
IG2401EH	120/240	150/275	2	4	LI, L2. N, G	6	104,000A	156,000A	400	400	400	700
IG2083YEH	120/208	150/250	3	5	LI. L2. L3. N. G	10	130,000A	260,000A	400	400	400	700
IG2403DEH	1 20 / 240	150/275	3	5	L1, L2, L3. N. G	10	130,000A	260,000A	400/700	400/700	400	700
IG4803YEH	277 / 480	320 / 550	3	5	LI.L2. L3, N, G	10	130,000A	260,000A	800	X00	400	1500
IG4803DEH	480	550	3	4	LI.L2. L3. G	6	104.000A	234,000A	N/A	1200	N/A	1 500