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# ISPD - Industrial Surge Protection Devices

Industrial Power Protection Portfolio

**NEW**

Introduction

ISPD 12

AC Power



DC Power



Signal Line



## Industrial Power Protection Portfolio

Electrical safety foundation reports that 34% of unplanned power outages are caused by power surges and unexpected resetting or mis-operation of equipment commonly also caused by power surges.\* With a significant growth of interconnected, smart equipment and sophisticated electronic devices, the National Electric Code (NEC) continues to increase requirements in surge protection in different applications to ensure safety of personnel and equipment.

Siemens Industrial Surge Protective Devices (ISPDs) offer a reliable DIN-Rail mountable solution for increasing NEC requirements to safeguard your critical equipment and safety circuits. In today's industrial environment, protection from damaging power surges is essential to maintaining smooth operations and minimizing costly downtime. Our complete portfolio protects your AC power, DC power, and signal line communications, covering all industrial applications.

\* Source: esfi.org

# ISPD - Industrial Surge Protection Devices

AC Power Protection **NEW**

Selection

## AC Power Protection

### AC Power Protection

- UL 1449 Type 1 Devices
- Replaceable Modules
- Remote Contacts Standard
- Surge Current Rating = 35kA/50kA
- UL SCCR = 100kA – 200kA
- Available Voltages:  
AC - 120V, 240V, 277V, 347V, 480V and 600V

### ISPD AC Power Part Numbers

| Catalog numbers             | Description                          |
|-----------------------------|--------------------------------------|
| <b>120V Nominal Voltage</b> |                                      |
| ISPD1201050R                | 1P L-N Only   120V AC                |
| ISPD1202050R                | 2P   120V Split AC                   |
| ISPD1203050R                | 3P   120V Split + N AC               |
| ISPD1204050R                | 4P   120/208V Wye AC                 |
| <b>240V Nominal Voltage</b> |                                      |
| ISPD2401050R                | 1P   240V AC                         |
| ISPD2402050R                | 2P   240V Split AC                   |
| ISPD2403050R                | 3P   240V Split + N or 240V Delta AC |
| ISPD2404050R                | 4P   240V AC                         |
| <b>277V Nominal Voltage</b> |                                      |
| ISPD2771050R                | 1P   277V AC                         |
| ISPD2772050R                | 2P   277V AC                         |
| ISPD2773050R                | 3P   480/277V Wye AC                 |
| ISPD2774050R                | 4P   480/277V Wye + N AC             |
| <b>347V Nominal Voltage</b> |                                      |
| ISPD3471050R                | 1P   347V AC                         |
| ISPD3472050R                | 2P   347V AC                         |
| ISPD3473050R                | 3P   600/347V Wye AC                 |
| ISPD3474050R                | 4P   600/347V Wye + N AC             |
| <b>480V Nominal Voltage</b> |                                      |
| ISPD4801050R                | 1P   480V AC                         |
| ISPD4802050R                | 2P   480V AC                         |
| ISPD4803050R                | 3P   480V Delta AC                   |
| ISPD4804050R                | 4P   480V AC                         |
| <b>600V Nominal Voltage</b> |                                      |
| ISPD6001035R                | 1P   600V AC                         |
| ISPD6002035R                | 2P   600V AC                         |
| ISPD6003035R                | 3P   600V Delta AC                   |

### Replacement Modules

|             |                            |
|-------------|----------------------------|
| ISPD120M050 | 120V AC Replacement Module |
| ISPD240M050 | 240V AC Replacement Module |
| ISPD277M050 | 277V AC Replacement Module |
| ISPD347M050 | 400V AC Replacement Module |
| ISPD480M050 | 480V AC Replacement Module |
| ISPD600M050 | 600V AC Replacement Module |

 Most common voltage configurations



ISPD 1P 120V  
L-N AC only



ISPD 2P 120/240V  
Split-Phase AC

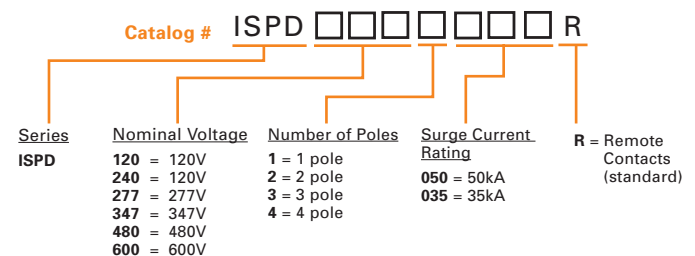


ISPD 3P 480 277V WYE AC



ISPD 4P 600 347V WYE + N AC

### Catalog Logic



# ISPD - Industrial Surge Protection Devices

DC Power Protection — 24VDC and PV Solar

**NEW**

Selection

ISPD 12

## DC Power Protection

### 24V DC Protection

- UL 1449 Device
- Replaceable Module
- Green/Red LED Status

### PV Solar Protection

- UL 1449 Type 1 Devices
- Replaceable Modules
- Remote Contacts Standard
- 1000VDC & 1500VDC

### ISPD DC Power Part Numbers

| Full Unit<br>Catalog numbers | Replacement modules<br>Catalog numbers | Description                                      |
|------------------------------|----------------------------------------|--------------------------------------------------|
| ISPD1000PV040R               | ISPD500PVM040                          | Higher Voltage PV Full unit / Replacement module |
| ISPD1500PV040R               | ISPD750PVM040                          | Higher Voltage PV Full unit / Replacement module |
| ISPD24DC                     | ISPD24DCM                              | 24V DC Power Din Rail                            |



ISPD 1500V PV



24V DC Power Din Rail

# ISPD - Industrial Surge Protection Devices

Signal Line Protection **NEW**

Selection

## Signal Line Protection

### ISPD Signal Line Protection

- UL 497B 4th Edition
- Available for 5V, 12V, 15V, 24V Applications
- Protects:
  - 4-20mA Data Signals
  - Paired Loop
  - FieldBus Communications
- Replaceable Modules
- Optional LED Status Indication Receiver/Transmitter
- Cat 6 POE



### ISPD Signal Line Part Numbers

| Catalog numbers | Catalog numbers for Replacement modules | Description                                         |
|-----------------|-----------------------------------------|-----------------------------------------------------|
| ISPD12SL        | ISPD12SLM                               | For Signal Line Communications – 12V                |
| ISPD12SLLF      | ISPD12SLLFM                             | For Signal Line Communications – 12V Low Frequency  |
| ISPD24SL        | ISPD24SLM                               | For Signal Line Communications – 24V                |
| ISPD24SLLF      | ISPD24SLLFM                             | For Signal Line Communications – 24V Low Frequency  |
| ISPD24SP        | ISPD24SPM                               | For Single Pair Communications – 24V                |
| ISPD24SPLF      | ISPD24SPLFM                             | For Single Pair Communications – 24V Low Frequency  |
| ISPDPOE         | —                                       | For LAN Cat 6 Networks                              |
| ISPD05SB        | ISPD05SBM                               | For Industrial Fieldbus Systems – 5V                |
| ISPD05SBLF      | ISPD05SBLFM                             | For Industrial Fieldbus Systems – 5V Low Frequency  |
| ISPD12SB        | ISPD12SBM                               | For Industrial Fieldbus Systems – 12V               |
| ISPD12SBLF      | ISPD12SBLFM                             | For Industrial Fieldbus Systems – 12V Low Frequency |
| ISPDBASECOMT    | —                                       | Signal Line Base Transmitter                        |
| ISPDBASECOMR    | —                                       | Signal Line Base Receiver                           |



# ISPD - Industrial Surge Protection Devices

Notes