The PX3™ offers an externally mounted surge solution that can be physically attached to the top or bottom of any panelboard, providing a reduced profile surge solution. PX3™ suppression filter systems feature a powerful failure-free ISM™ (Integrated Suppression Module). The ISM™ contains individual thermally fused and protected MOVs, surge-rated copper busing, robust filtering and advanced remote communications capabilities.

**PRODUCT SPECIFICATIONS**

**General Specifications**
- Maximum Surge Current Rating: 125kA Per Mode, 250kA Per Phase
- Nominal Discharge Surge Current: I-n = 20kA
- Safety Listings: UL Listed 1449 4th Edition for Type 1 and Type 2 SPD applications, cUL, and UL 1283 / Meets Requirements for UL 96A / Compliant to IEEE C62.41.1-2002, C62.41.2-2002 and C62.45-2002 / NFPA 70 [NEC], Article 285 / RoHS Compliant
- Protection Method: Thermally protected MOVs, Capacitive Filter
- Product Design: Individual thermally fused and protected MOVs, and All Copper, Tin-plated Bus
- Dimensions: 14"H x 20"W x 5.75"D
- Weight: 20 lbs.
- Enclosure Type: NEMA 1 Standard
- Installation Location: Indoor
- Operating Environment: -25°C to +60°C
  - 5% – 95% Non-Condensing Humidity
- Fault Current (SCCR): 200kAIC
- Connection Method: Parallel
- Protection Modes: All Modes (L-N, L-G, N-G, L-L)
- Response Time: < 0.5 Nanoseconds
- Operating Frequency: 47 – 63 Hz
- Warranty: 15 Years
- Filtering Attenuation Frequencies (Per Mil-Std-220B January 2000)**:
  - 10 KHz: 18.1 dB
  - 100 KHz: 44 dB
  - 1 MHz: 22.8 dB
  - 10 MHz: 15.3 dB
  - Max at 142 KHz: 54.6 dB

**Single/Repetitive Surge Current Capacities (Tested)**

<table>
<thead>
<tr>
<th>Protection Mode</th>
<th>Single Pulse Surge Current Capacity/Mode</th>
<th>Repetitive Surge Current Capacity/Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line-to-Neutral</td>
<td>125,000A</td>
<td>7,500 Impulses</td>
</tr>
<tr>
<td>Line-to-Ground</td>
<td>125,000A</td>
<td>7,500 Impulses</td>
</tr>
<tr>
<td>Neutral-to-Ground</td>
<td>125,000A</td>
<td>7,500 Impulses</td>
</tr>
<tr>
<td>Line-to-Line</td>
<td>250,000A</td>
<td>15,000 Impulses</td>
</tr>
<tr>
<td>Per Phase</td>
<td>250,000A</td>
<td>15,000 Impulses</td>
</tr>
</tbody>
</table>

**Maximum Continuous Operating Voltage (MCOV)**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>L-N MCOV</th>
<th>Voltage</th>
<th>L-L MCOV</th>
</tr>
</thead>
<tbody>
<tr>
<td>120V</td>
<td>150V</td>
<td>240V</td>
<td>300V</td>
</tr>
<tr>
<td>277V</td>
<td>320V</td>
<td>480V</td>
<td>552V</td>
</tr>
<tr>
<td>347V</td>
<td>420V</td>
<td>600V</td>
<td>690V</td>
</tr>
</tbody>
</table>

**Data based on actual tests. Contact factory for test reports.

**E.g.: PX3-125-208-3Y-MFT-M6E-F2 (as shown in above photo)**

<table>
<thead>
<tr>
<th>kA Rating</th>
<th>Voltage</th>
<th>Configuration</th>
<th>Monitoring</th>
<th>Enclosure</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Must Choose One)</td>
<td></td>
<td>(Must Choose One)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>050</td>
<td>120/208</td>
<td>1G, 1-Phase, Grounded</td>
<td>M0, No local monitoring</td>
<td>MFT, Metal, Flush Mount, Top Feed</td>
</tr>
<tr>
<td>080</td>
<td>120/240</td>
<td>2G, 2-Phase, Grounded, Split-Phase</td>
<td>M1, Smart switching tri-color/LED/Phase, Audible Alarm &amp; Dry Relay Contacts</td>
<td>MFB, Metal, Flush Mount, Bottom Feed</td>
</tr>
<tr>
<td>100</td>
<td>220/380</td>
<td>3G, 3-Phase, Grounded, Wye</td>
<td>M2, M1 + Surge Counter</td>
<td>MST, Metal, Surface Mount, Top Feed</td>
</tr>
<tr>
<td>125</td>
<td>277/480</td>
<td>3H, 3-Phase, Grounded, High-Leg Delta</td>
<td>M3, Advanced Monitoring, Character Display, Modbus RTU</td>
<td>MSB, Metal, Surface Mount, Bottom Feed</td>
</tr>
<tr>
<td>150</td>
<td>347/600</td>
<td>3D, 3-Phase, Grounded, Delta</td>
<td>M4, M3 + Ethernet, Modbus TCP</td>
<td>SFT, Stainless, Flush Mount, Top Feed</td>
</tr>
<tr>
<td>200</td>
<td></td>
<td></td>
<td>M5, Advanced Monitoring, Graphics Display, Modbus RTU</td>
<td>SFB, Stainless, Flush Mount, Bottom Feed</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M6E, M5 + Ethernet, Modbus TCP</td>
<td>SST, Stainless, Surface Mount, Top Feed</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>SSB, Stainless, Surface Mount, Bottom Feed</td>
</tr>
</tbody>
</table>

**Monitoring (Must Choose One)**
- M0, No local monitoring (see remote MxX stand-alone option)
- M1, Smart switching tri-color/LED/Phase, Audible Alarm & Dry Relay Contacts
- M2, M1 + Surge Counter
- M3, Advanced Monitoring, Character Display, Modbus RTU
- M4, M3 + Ethernet, Modbus TCP
- M5, Advanced Monitoring, Graphics Display, Modbus RTU
- M6E, M5 + Ethernet, Modbus TCP

**Filter (Must Choose One)**
- F, Filter
- N, No Filter

**Optional Features (May Choose One)**
- 1, Panel Mounted In-House
- 2, Test Port
- 4, Full Flush Cover
- 5, GE Version
- 6, Square D Version
- 7, Siemens, Eaton Cufller-Hammer

**Stand-Alone Options (To Be Ordered As Separate Items)**
- DTS, DTS-2 Diagnostic Test Set
- MxX, Remote Monitor Extension
- M1X through M6EX
- HPI, HPI Cable

**MODEL NUMBER SCHEME (PX3™)**

- Available PX3™ kA Ratings: 050, 080, 100, 125, 150, 200
- Voltage* (Must Choose One)
  - 208 | 120/208
  - 240 | 120/240
  - 380 | 220/380
  - 480 | 277/480
  - 600 | 347/600
- Configuration* (Must Choose One)
  - 1G | 1-Phase, Grounded
  - 2G | 2-Phase, Grounded, Split-Phase
  - 3Y | 3-Phase, Grounded, Wye
  - 3H | 3-Phase, Grounded, High-Leg Delta
  - 3D | 3-Phase, Grounded, Delta
- Enclosure (Must Choose One)
  - MFT, Metal, Flush Mount, Top Feed
  - MFB, Metal, Flush Mount, Bottom Feed
  - MST, Metal, Surface Mount, Top Feed
  - MSB, Metal, Surface Mount, Bottom Feed
  - SFT, Stainless, Flush Mount, Top Feed
  - SFB, Stainless, Flush Mount, Bottom Feed
  - SST, Stainless, Surface Mount, Top Feed
  - SSB, Stainless, Surface Mount, Bottom Feed

**See table on back for more Voltage/Configuration Options.
### PX3³/125 PERFORMANCE DATA

<table>
<thead>
<tr>
<th>System Voltage</th>
<th>120/240V or 120/208 V</th>
<th>277/480V</th>
<th>347/600V</th>
<th>480V Delta</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protection Mode</td>
<td>L-N</td>
<td>L-G</td>
<td>N-G</td>
<td>L-L</td>
</tr>
<tr>
<td>MCOV</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>300</td>
</tr>
<tr>
<td>B3 Ring Wave 6kV, 500A</td>
<td>490</td>
<td>570</td>
<td>640</td>
<td>500</td>
</tr>
<tr>
<td>B3/C1 Combo Wave 6kV, 3kA</td>
<td>614</td>
<td>629</td>
<td>634</td>
<td>1011</td>
</tr>
<tr>
<td>C3 Combo Wave 20kV, 10kA</td>
<td>980</td>
<td>980</td>
<td>1170</td>
<td>1600</td>
</tr>
<tr>
<td>UL 1449 4th Edition VPR 6kV, 3kA</td>
<td>700</td>
<td>700</td>
<td>700</td>
<td>1200</td>
</tr>
</tbody>
</table>

*Not available with Integral Disconnect option.*

All PX3³ systems voltage protection ratings (VPR) are peak values (±10%) measured from the 90° reference point and are in compliance with test and evaluation procedures outlined in ANSI/IEEE C62.41.

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**ABB**

Electrification Products Division
Building Products

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new.abb.com/low-voltage/products/surge

Specifications are subject to change without notice