

# TransEnd® – 80

## MEDIUM DUTY FOR DISTRIBUTION APPLICATIONS



### FEATURES AND BENEFITS

- Listed to UL 1449 4th Edition for a Type 2 SPD application.
- Protects facilities and equipment against the harmful effects of lightning strikes and internally generated electrical transients.
- Includes pre-wired pigtail conductors to streamline installation.
- Features internal copper bus conduction path to minimize system impedances, lowering clamping voltage and increasing protection.

### AVAILABLE CONFIGURATIONS

| Model Number      | Voltage  | Configuration                           |
|-------------------|----------|---|
| XN80-120/240-2G   | 120/240V | 1-Phase, 3-Wire + Ground                |
| XN80-120/208-3GY  | 120/208V | 3-Phase Wye, 4-Wire + Ground            |
| XN80-220/380-3GY  | 220/380V | 3-Phase Wye, 4-Wire + Ground            |
| XN80-120/240-3GHD | 120/240V | 3-Phase High-Leg Delta, 4-Wire + Ground |
| XN80-277/480-3GY  | 277/480V | 3-Phase Wye, 4-Wire + Ground            |
| XN80-240-3DG      | 240V     | 3-Phase, 3-Wire + Ground                |
| XN80-380-3DG      | 380V     | 3-Phase, 3-Wire + Ground                |
| XN80-480-3DG      | 480V     | 3-Phase, 3-Wire + Ground                |

#### Warranty

5-years

#### Available Option

Dry Form "C" Relay Contacts      Add suffix -FC

#### Stand Alone Options (To be ordered as a Separate Item)

##### Option A

XN Metallic Conduit Kit      Metallic conduit installation kit has a 3/4" (.019 m) x 3" (.076 m) metallic nipple and all associated hardware required to complete the TransEnd installation

##### Option B

XN Plastic Conduit Kit      Flexible plastic conduit installation kit, including 18" (.457 m) flexible conduit and all associated hardware required to complete the TransEnd installation

#### EMI/RFI Filter Attenuation

Max. Attenuation Frequency      50dB @ 100kHz

### PRODUCT SPECIFICATIONS

#### Electrical

|  |   |
|--|---|
| Maximum Surge Current Rating           | 160kA per phase, 80kA per mode  |
| Nominal Discharge Current Rating (I-n) | 20kA  |
| Operating Frequency                    | 47–63Hz   |
| Connection Methods                     | Parallel to Load (shunt)<br>24" #10AWG wires<br>Through 20A (max) breaker   |
| Modes of Protection                    | L-N, L-G, N-G, L-L  |
| Fault Rating (SCCR)                    | 65kAIC – upstream over-current protection device (breaker or fuse required) |
| Response Time                          | Less than 1 nanosecond (one per phase)                                      |
| Standard Monitoring                    | LED Status Indicator lights   |

#### Mechanical

|                       |  |
|-----------------------|--|
| Weight                | 12.7 lbs. (5.8 kg)   |
| Enclosure Type        | NEMA 4X fiberglass-reinforced polyester (FRP) surface-mount, non-removable cover |
| Installation Location | Indoor/Outdoor   |
| Mounting Methods      | Dual Mounting Flanges  |
| Operating Environment | -40° to +140°F (-40° to +60°C)   |
| Altitude              | Up to 16,400 ft. (5000 m)  |
| Product Design        | No internal fusing   |

#### Regulatory

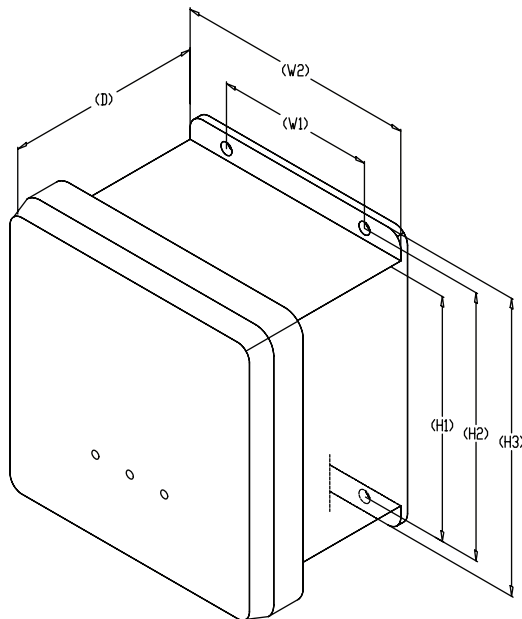
|                           |        |
|---------------------------|--------|
| UL 1449 4th Edition Type  | Type 2 |
| UL 1283                   | Yes    |
| IEEE C62.41.1, .2, C62.45 | Yes    |
| Listed By                 | UL     |

**SURGE PROTECTIVE DEVICES**

**TRANSEND 80 PERFORMANCE DATA**

| Model Number      | Voltage Configuration | Protection Mode | MCOV | UL 1449 4th Edition<br>6kV, 3kA VPR |
|-------------------|-----------------------|-----------------|------|-------------------------------------|
| XN80-120/240-2G   | 1S240                 | L-L             | 300V | 1000V                               |
|                   |                       | L-N             | 150V | 600V                                |
|                   |                       | L-G             | 150V | 600V                                |
|                   |                       | N-G             | 150V | 600V                                |
| XN80-120/208-3GY  | 3Y208                 | L-L             | 300V | 1000V                               |
|                   |                       | L-N             | 150V | 600V                                |
|                   |                       | L-G             | 150V | 600V                                |
|                   |                       | N-G             | 150V | 600V                                |
| XN80-220/380-3GY  | 3Y380                 | L-L             | 550V | 1500V                               |
|                   |                       | L-N             | 275V | 900V                                |
|                   |                       | L-G             | 275V | 900V                                |
|                   |                       | N-G             | 275V | 900V                                |
| XN80-277/480-3GY  | 3Y480                 | L-L             | 552V | 1800V                               |
|                   |                       | L-N             | 320V | 900V                                |
|                   |                       | L-G             | 320V | 1000V                               |
|                   |                       | N-G             | 320V | 1000V                               |
| XN80-120/240-3GHD | 3H240                 | L-L             | 300V | 1000V                               |
|                   |                       | L-N             | 150V | 600V                                |
|                   |                       | L-G             | 150V | 600V                                |
|                   |                       | N-G             | 150V | 600V                                |
|                   |                       | H-L             | 425V | 1500V                               |
|                   |                       | H-N             | 275V | 900V                                |
| XN80-240-3DG      | 3D240                 | L-L             | 275V | 1000V                               |
|                   |                       | L-G             | 550V | 900V                                |
| XN80-380-3DG      | 3D380                 | L-L             | 550V | 1800V                               |
|                   |                       | L-G             | 400V | 1500V                               |
| XN80-480-3DG      | 3D480                 | L-L             | 640V | 1800V                               |
|                   |                       | L-G             | 550V | 1800V                               |

All TransEnd® systems' Voltage Protection Ratings (VPRs) are peak values taken at the 90° point on the sine wave. Ring Wave values are taken at the 180° point on the sine wave. All data collection is in compliance with testing and evaluation procedures as outlined in ANSI/IEEE C62.45



**DIMENSIONS**

| Dim | Inches (mm)  |
|-----|--------------|
| H1  | 6.17 (156.7) |
| H2  | 6.75 (171.5) |
| H3  | 7.50 (190.4) |
| W1  | 4.01 (101.9) |
| W2  | 6.12 (155.4) |
| D   | 5.01 (127.5) |





# Energía Verde RMS

Ahorra y contribuye con tu ambiente <sup>®</sup>

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